FACOM®

Pro for life

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Product Finder

Workstations and tool storage

1 Tool sets 18

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4 Wrenches 124

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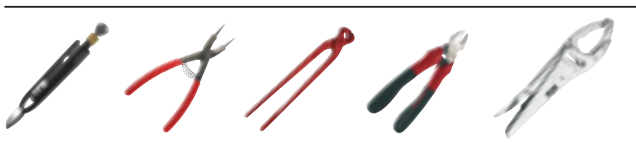
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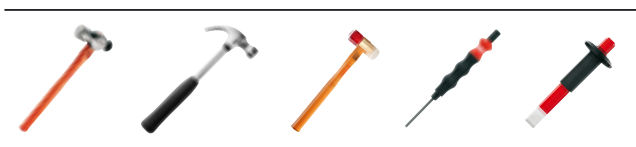
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Specialist tooling

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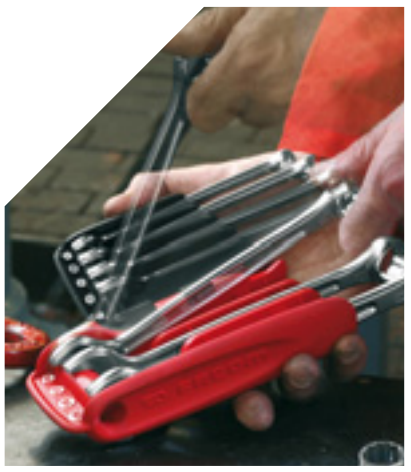
Our ambition: useful innovation

Innovation with and on behalf of professional users

- FACOM innovates in all technologies and in all areas of activity (design, materials, new processes, methods).
- Each new Facom-designed product is the fruit of field tests performed with the help of professional users.

Innovation for increased productivity

- Saving time, increasing efficiency, and improving productivity and safety are essential values for the development of new tools (numerous patents).



Innovation for simplifying tasks

- Priority is given to useful innovation, placing a premium on the simplification of tasks and the reduction of effort.
- New designs are regularly tested with the aim of helping professional users to improve their efficiency.

Our obsession: quality

Quality improves profitability

- Facom produces highly efficient tools that meet the very highest quality standards.
- Reliable and durable, they are a guaranteed good investment.
- Sturdy and strong, they are tested under extreme conditions and intensive use.

Quality for the safety of professional users

- Facom products are designed to reduce user effort and minimise the risk of trauma or injury.

Guaranteed Facom quality

- Choosing a Facom product guarantees complete satisfaction, with the added security of the Facom guarantee.
- The design and manufacturing processes are ISO 9001 certified (version 2000).

Our obligation: customer satisfaction

Comprehensive assistance every day

- Numerous services are offered to assist users to work even more efficiently: Tool applications and selection guides; technical advice; safety standards; training; After-sales services.

Over 6500 products serving all professional needs

- Facom's comprehensive range of standard and specialist tools meets the needs of every user.
- Facom is present in many sectors, notably the industrial (maintenance and production), automotive (inspection and repair), heavy goods vehicles, electrical, electronic and aerospace sectors.

The entire Facom range at your fingertips

- 870 pages, 600 000 copies, 12 languages, the Facom catalogue is a genuine tool reference book.
- The Web site offers selection guides and information on new products, as well as the complete catalogue.

www.facom.com

Our passion: customer contact

Facom's advisors with their demonstration and assistance vehicles

- **Their mission :** to be in contact with users at their workplace
- **Their objective :** To listen, inform, advise and allow you to try out our tools.
- **Their priority :** To better meet the needs of the professional user by identifying improvements to the product range.

An international presence

With 12 subsidiaries throughout the world, Facom places great importance on contact with the users of its tools.

A distributor near you

Professional, competent and sharing a unique spirit of service, the distributors, who are Facom's partners, are able to provide you the entire range of products and services.

Design and manufacture: a vocation

Recognised design expertise

- 250 technician engineers committed full-time to the development of new products.
- 10 design offices incorporated within the production sites working exclusively on Facom-related research.

Made by Facom

- 60% of production is manufactured in Facom's 11 French and European factories.
- 40% of tools are produced in partnership with manufacturers working to Facom's own, higher specifications.

Factories using cutting-edge technology

- Facom's production centres are constantly upgraded to improve product performance and optimise the production process.
- They specialise in different production techniques: Cold forming, heat treatment, surface treatment, plastic injection, etc.

The Facom guarantee, often copied, never equalled

When you, as professionals, use a tool, you expect it to give total, permanent and long-lasting satisfaction, however intensive the use and whatever the application.

That is why Facom tools are always tested under extreme conditions and intensive use. Like quality, with which it goes hand in hand, the Guarantee is integral to Facom's commitment and the reputation of its product range.

Over fifty years of shared history

A major innovation introduced as early as 1952, the Facom Guarantee is backed by a dedicated organisation :

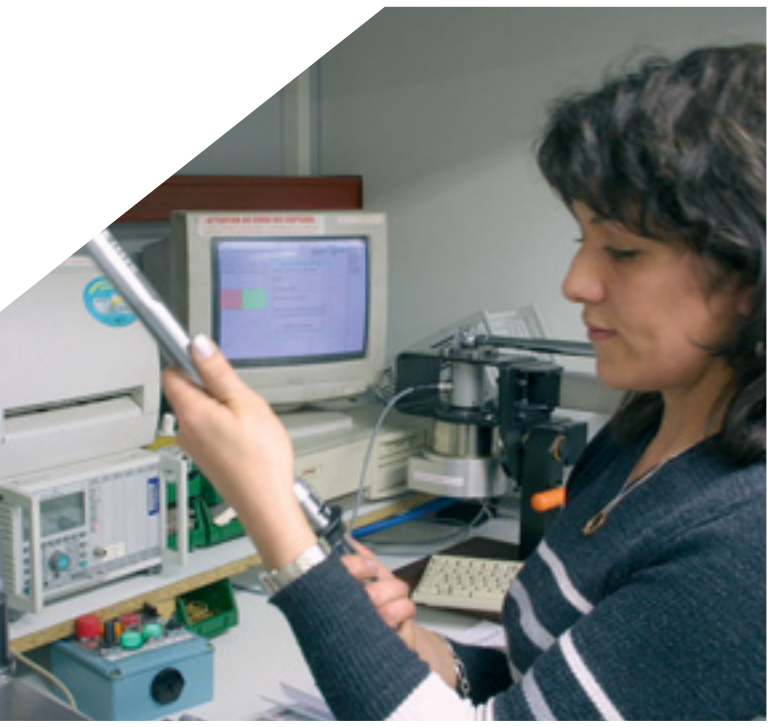
- The Facom distributor network constitutes the first link in the Guarantee chain, with responsibility for its application to ex changes from stock.

- All items that are returned to our works-hops enter into a regularly audited, tracea-bility-based procedure.
- 18 employees are responsible for handling and processing warranty returns each day.

The Facom Guarantee: transparency and modernity

- Guarantee returns can now be followed in real time. Your distributor can follow the progress of your tool at all times via an Extranet link.

Periodic inspection of your tools ensures production quality



The Facom laboratory

is a COFRAC-accredited laboratory and can assist with :

- Torque assurance.
- Regular calibration and inspection of tools to ensure compliance with ISO standard requirements.
- Mutual recognition of the validity of tool calibration and inspection with European and other the countries based on multilateral or bilateral recognition agreements (EA; ILAC).
- Linking of tools to the national and international (SI) system of units.

Note 1: For further information regarding the services provided by the laboratory, please refer to the After Sales Service catalogue and the Web site www.facom.fr

Note 2: The delivery of a calibration certificate bearing the COFRAC-ETALONNAGE logo guarantees that the results are linked back to the international (SI) system of units.

Signatories of the EA* multilateral recognition agreement

- **COFRAC,** Comité Français d'Accréditation
- **DKD,** Deutscher Akkreditierungsrat
- **BMWA,** Bundesministerium für wirtschaftliche Angelegenheiten
- **BKO,** Belgische Kalibratie Organisatie obe Organisation Belge d'Etalonnage
- **DANAK,** Danish Accreditation National Agency of Industry & Trade
- **ENAC,** Entidad Nacional de Acreditacion
- **FINAS,** Finnish Accreditation Service
- **NAB,** National Accreditation Board
- **SIT,** Servizio Italiano di Taratura
- **NA,** Norwegian Accreditation
- **RVA,** Raad voor Accreditatie
- **IPAC,** Instituto Português de Acréditação
- **CAI,** Czech Accreditation Institute
- **UKAS,** United Kingdom Accreditation Servioe
- **SWEDAC,** Swedish Board for Accreditation & Conformity
- **SAS,** Swiss Accreditation Service
- **ESYD,** Hellenic Accreditation System
- **PCA,** Polskie Centrum Akredytacji

* European co-operation for Accreditation.

Signatories of bilateral recognition agreements

- **NATA,** National Association of Testing Authorities
- **SANAS,** South Africa National Laboratory Accreditation Service
- **A2AL,** American Association for Laboratory
- **SAC,** Singapore Confederation of Industries

Torque control services

- **COFRAC services :**
  As a COFRAC-accredited organisation (No. 2-1805), the Facom laboratory offers a range of torque monitoring services.
  The "COFRAC etalonnage" logo guarantees that the results are directly linked to the international (SI) system of units (linked to national and international standards).

260 Section 6

- **Facom laboratory services :**
  The Facom Laboratory is linked to the national calibration standards and issues calibration certificates in accordance with the specifications of ISO 6789 and its own quality assurance procedures.

260 Section 6

Fixed-price repairs

For certain pneumatic, electrical, hydraulic and torque control tools,

Facom offers a range of fixed-price repair or standard replacement conditions.

Crimping plier inspection

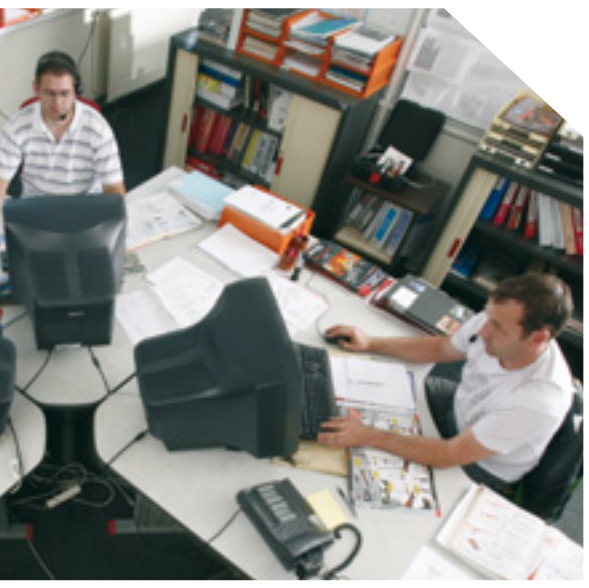
ISO 9000 quality assurance systems require crimping equipment to be periodically checked for compliance with the standards and recommendations.
Facom therefore decided to offer a worry-free inspection service to its customers,
covering all Facom crimping pliers for insulated and non-insulated terminals

In certain countries, these services delegated locally.
Please contact your Facom representative for further information

Facom Technical Assistance, **passionate about your work.**

Over 200 demonstration vehicles

- **Their mission: to understand the needs of tool users through site visits.**



Assistance provided

- **Product demonstrations / try-outs :**
  - Presentation of new products.
  - Literature.
  - Catalogue distribution.
- **Technical advice.**
- **Selection assistance.**
- **Local distributors.**

Over 150 000 visits each year

- **The source of Facom product development and improvement**
- **150 000 opportunities to learn about, analyse and anticipate your needs and provide concrete solutions.**

Facom's distributors

868

With a network of over 5,500 sales outlets in 100 countries, Facom is always close to you and your needs.

The professional's true partner

The Facom team is always available for the following :

- **Product information,**
- **Technical advice,**
- **Merchandising solutions,**
- **Delivery times,**
- **Managing warranty returns,**
- **After sales services, torque control, etc.**

NEW

The Facom Extranet portal

Even more services via your distributor :

- **Online follow-up of orders.**
- **Monitoring of warranty returns and repairs.**
- **Spare parts.**

The complete Facom product range online

Access the entire up-to-date Facom product range in one click. Download the whole catalogue, specific sections and much, much more.

www.facom.com

NEW

Choose your tools online

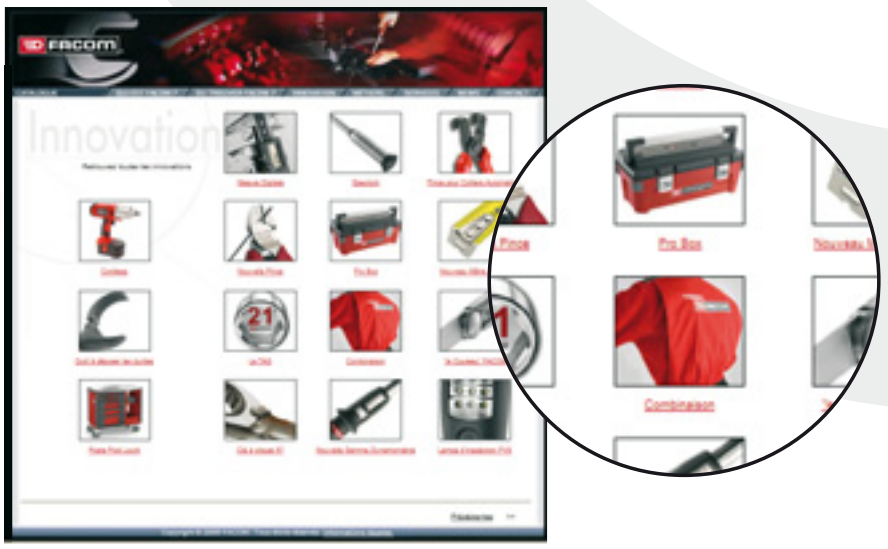
You can now select products online, record your selection and e-mail it to your distributor for a quotation, as well as printing a hard copy.

Tool / Marque / Vehicle application guide

Find the right Facom tool for the job on the vehicle to be repaired - fast.

New Facom products

Discover all the latest Facom innovations and see demonstration videos.



NEW

Locating your Facom distributor

Enter your address and the site will display details of your nearest distributors in France and the rest of the world. Find your nearest distributor in just a few clicks.

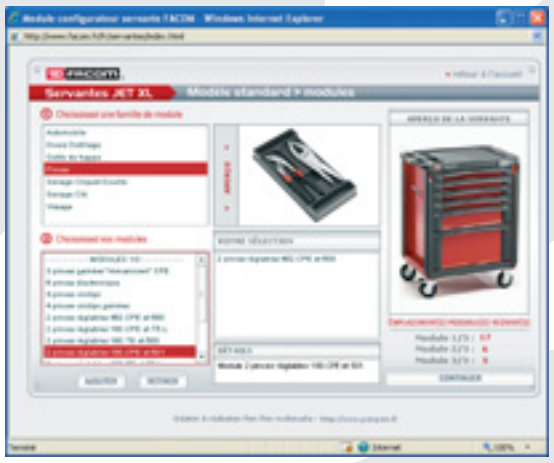
Customised workstations

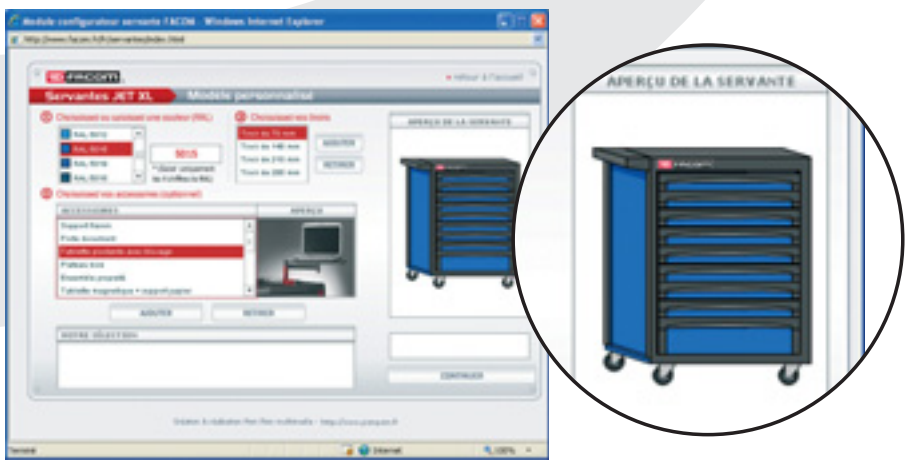
Create your own workstation, quickly and easily, in just a few clicks. You can now
devise your own workshop colour scheme, drawer and tool configurations on:

www.facom.com

allows you to choose :

- drawer combinations,
- colours,
- accessories.
- tool storage modules.





Extranet: Speed and reliability for your distributor, satisfaction and quality for you!

Using our Extranet site, your distributor can now monitor products online and meet your needs in the shortest of time :

- Direct access to details on product availability.
- Real-time follow-up of orders and tools returned for repair.
- Accessories.
- Reduced risk of inputting errors.

CUSTOMISED TOOLS: FACOM SOLUTIONS

Occasionally, standard tools are just not up to the job. If you require specially designed or adapted tools, Facom's engineering team can apply their technical expertise to help you create the tools you need to suit your specifications.

Roller cabinets with a variety of drawer configurations

Product adaptation to suit your specifications

Storage modules to suit a particular set of tools

Special end fittings for torque wrenches.
Special finishes. Different materials.

Personalisation

Storage units in your own colours

Your logo

Technical information

Over 25,000 answers per year

- The queries we receive cover a very wide range of subjects: requests for technical information, for assistance finding products or spare parts, for practical tips, technical documentation, etc.
- Our advisors are always able to provide the right answer with the help of numerous data and information bases.
- Don’t hesitate to contact your usual FACOM representative.

Customers abroad will be referred to our subsidiaries

• Contacts 868

A SHARED PASSION

Mitsubishi Motor Sport*

Parotech*

Aravi*

JFC Racing*

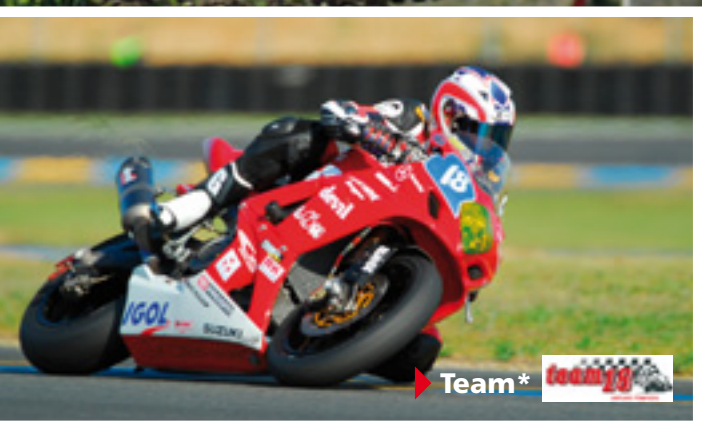
Pescarolo Sport*

* FACOM Technical Partners.

You too can join

Contact your distributor or go to www.facom.com

KTM*



Team*

Dap 91*

Coutelle Junior Team*

Peugeot Sport* 908 HDi FAP

Team Facom!

GZD21
Glide Cut & ZERO Turn

1. Tool sets

Mechanical engineering 20

Electromechanical and servicing 33

Electronics 38

Electricity 47

Building maintenance and general servicing sets 47

Building fitting and maintenance 47
Plumbing and sanitation 48
Refrigeration and air-conditioning 49

Plant and equipment maintenance sets 50

Park and garden sets 50
Handling equipment sets 51

Motor mechanics tool sets 52

HGV mechanics tool sets 55

Farming and construction equipment maintenance sets 57

Farming equipment sets 57
Construction plant sets 59

Drivers sets 61

512-piece mechanical tool set

CM.160A

• Metric and inch set supplied loose, as below.

⚖ : 113 kg.

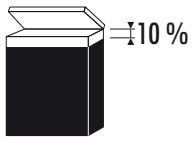
⇉	Qty	Description
440.JE18	18	Combination wrenches 6 to 24 mm
440.JU12	12	Combination wrenches 1/4" to 15/16".
440	6	Combination wrenches 26 to 30 and 32 mm
40LA	4	Long combination wrenches 33, 35, 36, 38 mm
39.JE10T	10	Roll set of short combination wrenches 3.2 to 11 mm
44.JE12	12	Open-end wrenches 6 to 32 mm
31.JE6T	6	Roll set of low profile open-end wrenches 8 to 19 mm
43.JE5T	5	Roll set of flare-nut wrenches 7 to 19 mm
113A	2	Adjustable wrenches 6" and 10"
115A.100	1	Pin wrench
S.440AP	29	Socket set ☐ 1/2" : 8 to 32 mm and accessories (in a case)
S.40U	7	Rack socket-set 3/8" to 21/32"
S.41U	6	Rack socket-set 11/16" to 1"
S.141A	1	Long hinged handle ☐ 1/2"
R.425AP	26	Sockets ☐ 1/4" : 5.5 to 14 mm and accessories (in a case)
R.40U	11	11-piece rack socket-set 3/16" to 9/16"
K.432E	16	"Truck" socket set ☐ 3/4" : 30 to 55 mm and accessories (in case)
NS.500A	26	Impact socket set ☐ 1/2" : 8 to 27 mm
NS.265M	21	Impact screwdriver set with bits
S.306A200	1	Torque wrench 40 to 200 Nm
AN	3	Screwdrivers for slotted heads 3x75 - 4x100 - 5.5x100 mm
ANF	2	Screwdrivers for slotted heads 6.5x150 - 8x200 mm
AWH10X175	1	Hexagonal blade screwdriver for slotted heads with hexagon shoulder
ANP	3	Screwdrivers for Phillips® heads no. 0-1-2
AWPH3X150	1	Hexagonal blade screwdriver for Phillips® head no. 3 with hexagon shoulder
AND	3	Screwdrivers for Pozidriv® heads no. 0-1-2
AWDH3X150	1	Hexagonal blade screwdriver for Pozidriv® head no. 3 with hexagon shoulder
A6,5x150VE	3	1,000 V insulated screwdrivers for slotted heads 3.5x100 - 4x100 - 6.5x150
AP.VE	2	1,000 V insulated screwdrivers Phillips® heads 1x100 - 2x125
701A	1	Multifunction tester
AV.HT1B	1	Voltage tester screwdriver 90 to 480V
AF	1	Screw starter for slotted heads
AN	2	Stubby screwdrivers for slotted heads 4x35 and 6.5x35 mm
ANP	2	Stubby screwdrivers for Phillips® heads 1x35 and 2x35 mm
82H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
83SH.JP9	9	Sleeve set of spherical head hex keys 1.5 to 10 mm
89.JP8	8	Torx® keys no. 10 to 45
82H.JU10	10	Wallet set of hexagonal keys 1/16" to 3/8"
84E.J1	5	Case-set of nut spinners
AEF.J1	5	Case set of Micro-Tech® screwdrivers
94A.JE13T	13	Roll set of nut spinners 3.2 to 14 mm
187.18CPE	1	Sheathed combination pliers
192.16CPE	1	"Piano wire" diagonal cutters
181.25CPE	1	Lockable multigrip pliers
181.30G	1	Lockable multigrip pliers
185.20CPE	1	Sheathed straight half-round nose pliers
195.20CPE	1	Sheathed angled half-round nose pliers
189.17CPE	1	Sheathed round-nose pliers
188.16CPE	1	Sheathed flat-nose pliers
495.22EL	1	Heavy-duty end nippers
191A.18EL	1	Compound-leverage end nippers
T5.L65	1	Trigger-release lock-grip pliers (with aluminium sheathing)

⇉	Qty	Description
501	1	Long-nose lock-grip pliers
507A	1	Compact lock-grip pliers
509	1	Lock-grip wrench
521.200	1	Sliding jaw lock-grip clamp
169E	3	Inside-circlip pliers 13 - 18 - 23.
167E	3	Outside-circlip pliers 13 - 18 - 23.
405.12MT	1	Precision diagonal cutters
401.MT	1	Extra-long flat-nose precision pliers
403.MT	1	Precision angled half-round nose pliers
893.316	1	Locking tape measure 3 m
234	1	Scriber
DELA.1051.05	1	Rule 300 mm
804	1	Feeler gauge, 19 blades
311A.50	1	Level with protractor dial
809.J2	8	Measuring and scribing instrument kit
603E	1	Hacksaw frame
660A.8	10	Bimetal hacksaw blades
STG	5	File set
AP6X80	1	Square punch
883B	1	Right-cut scroll shears
237.A	1	Thread restoring tool
270.A	1	Spark plug brush
996.5	1	Steel cable cutters
990.B1	1	Bolt cropper
881	1	Serrated shears
887A	1	Nibblers
231	1	Three-square scraper
222.J19	19	Box set of drill-bits 1 to 10 mm
221.227J2	41	Tap and die set (in a case)
830A.10	1	Ratchet tool-holder
830A.10L	1	Long ratchet tool-holder
AS.12LTP180T2	12	Wallet set of 12 needle files, 180 mm
245.J2	26	Set of gasket punches in a case
200H	2	Riveting hammers 24 and 32 mm
208A.32CB	1	Plastic-tip mallet
212A.40	1	Dead-blow hammer
247.G	5	Sheathed nail sets 2 - 3 - 4 - 6 - 8 mm
249.G	5	Sheathed drift punches 2 - 3 - 4 - 6 - 8 mm
265.20	1	Constant-profile cape chisel
254A.10	1	Precision cape chisel
263.18	1	Chisel
256.4	1	Precision centre punch 4 mm
257.G	1	Sheathed automatic centre punch
134.18	1	Pipe wrench
138.30	1	Strap wrench, 4"
238A.32	1	Pipe cutter, 3 to 32 mm and 1/8" to 1 1/4"
239.EA	1	Inch dies
239	1	"Refrigeration" flaring tool (in a case)
Y.RIV1	1	Riveting kit
374A.20	1	Double-action oil can
269	1	Crowbar
777A.230	1	Inspection lamp
U.306A140	1	3-leg puller ∅ 7 to 140 mm
U.306G2	3	Legs for inside application
U.306M	1	Slide hammer
U.306A1	1	Nut/washer subassembly
U.302	1	3-leg puller 6 to 80 mm
285.JS10	10	Set of stud extractors
840.1	1	Electricians knife with wire stripper
841	1	Electricians scissors
985761	1	Automatic cutting stripper
844.SE18	1	Retractable knife
449.Z3A	1	Crimping plier and terminal set
848B.100	1	Instant-heat 100 W soldering iron
661626	1	Reel of solder wire
827B	1	Magnetic retriever
834.R2	1	Articulated mirror

Set CM.160A with 8-drawer roller cabinet JET.8GXL and chest JET.C4GXL

JET8.M160A

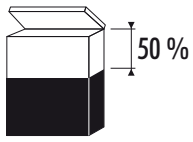
⚖ : 239 kg.



Set CM.160A with workbench 2000.BB1 and cabinet 2210

2000.BBM160A

- Supplied with set of hooks CKS.2230-160.



329-piece mechanical tool set

CM.150A

• Metric set supplied loose, as below.

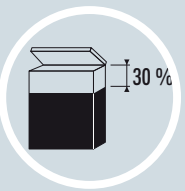
⚖ : 97,5 kg.

⇉	Qty	Description
440.JE18	18	Combination wrenches 6 to 24 mm
440	6	Combination wrenches 26 to 30 and 32 mm
40LA	4	Long combination wrenches 33, 35, 36, 38 mm
39.JE10T	10	Roll set of short combination wrenches 3.2 to 11 mm
44.JE12	12	Open-end wrenches 6 to 32 mm
43.JE5T	5	Roll set of flare-nut wrenches 7 to 19 mm
31.JE6T	6	Roll set of low profile open-end wrenches 8 to 19 mm
113A.C	2	Adjustable wrenches 6" and 10"
115A.100	1	Pin wrench
S.440AP	29	Socket set ☐ 1/2" : 8 to 32 mm and accessories (in a case)
S.141A	1	Long hinged handle ☐ 1/2"
R.425AP	26	Sockets ☐ 1/4" : 5.5 to 14 mm and accessories (in a case)
K.432E	16	"Truck" socket set ☐ 3/4" : 30 to 55 mm and accessories (in case)
S.306A200	1	Torque wrench 40 to 200 Nm
AN	3	Screwdrivers for slotted heads : 3x75 - 4x100 - 5.5x100 mm
ANF	2	Screwdrivers for slotted heads 6.5x150 - 8x200 mm
AWH10X175	1	Hexagonal blade screwdriver for slotted heads with hexagon shoulder
ANP	3	Screwdrivers for Phillips®heads no. 0-1-2
AWDH3X150	1	Hexagonal blade screwdriver for Phillips® head no. 3 with hexagon shoulder
AND	3	Screwdrivers for Pozidriv®heads no. 0 to 3
AWPH3X150	1	Hexagonal blade screwdriver for Pozidriv® head no. 3 with hexagon shoulder
A.65x150	3	1,000 V insulated screwdrivers for slotted heads 3.5x100 - 4x100 - 6.5x150 mm
AP.VE	2	1,000 V insulated screwdrivers Phillips® heads 1x100 - 2x125 mm
701A	1	Multifunction tester
AV.HT1B	1	Voltage tester screwdriver 90 to 480 V
AF	1	Screw starter for slotted heads
82H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
83SH.JP9	9	Sleeve set of spherical head hex keys 1.5 to 10 mm
89.JP8	8	Torx® keys no. 10 to 45
AEF.J1	5	Case set of Micro-Tech® screwdrivers
187.18CPE	1	Sheathed combination pliers
192.16CPE	1	"Piano wire" diagonal cutters
181.25CPE	1	Lockable multigrip pliers
181.30G	1	Lockable multigrip pliers
185.20CPE	1	Sheathed straight half-round nose pliers
195.20CPE	1	Sheathed angled half-round nose pliers
189.17CPE	1	Sheathed round-nose pliers
188.16CPE	1	Sheathed flat-nose pliers
495.22EL	1	Heavy-duty end nippers
191A.18EL	1	Compound-leverage end nippers

⇉	Qty	Description
501	1	Long-nose lock-grip pliers
507A	1	Compact lock-grip pliers
521.200	1	Sliding jaw lock-grip clamp
T5.L65	1	Trigger-release lock-grip pliers (with aluminium sheathing)
169E	3	Inside-circlip pliers 13 - 18 - 23.
167E	3	Outside-circlip pliers 13 - 18 - 23.
405.12MT	1	Precision diagonal cutters
893.316	1	Locking tape measure 3m
234	1	Scriber
DELA.1051.05	1	Rule 300 mm
804	1	Feeler gauge, 19 blades
603E	1	Hacksaw frame
660A.8	10	Bimetal hacksaw blades
STG	5	File set
AP6X80	1	Square punch
883B	1	Right-cut scroll shears
237.A	1	Thread restoring tool
270.A	1	Spark plug brush
996.5	1	Steel cable cutters
881	1	Serrated shears
231	1	Three-square scraper
222.J19	19	Box set of drill-bits 1 to 10 mm
221.227J2	41	Tap and die set (in a case)
830A.10	1	Ratchet tool-holder
830A.10L	1	Long ratchet tool-holder
200H	2	Riveting hammers 26 and 32 mm
208A.32	1	Heavyweight mallet
212A.40	1	Dead-blow hammer
247.G	5	Sheathed nail sets 2 - 3 - 4 - 6 - 8 mm
249.G	5	Sheathed drift punches 2 - 3 - 4 - 6 - 8 mm
265.20	1	Constant-profile cape chisel
254A.10	1	Precision cape chisel
263.18	1	Chisel
256.4	1	Precision centre punch 4 mm
257.G	1	Sheathed automatic centre punch
134.18	1	Pipe wrench
Y.RIV1	1	Riveting kit
374A.20	1	Double-action oil can
269	1	Crowbar
U.306A140	1	3-leg puller Ø 7 to 140 mm
U.306G2	3	Legs for inside application
U.306M	1	Slide hammer
U.306A1	1	Nut/washer subassembly
840.1	1	Electricians knife with wire stripper
841	1	Electricians scissors
985761	1	Automatic cutting stripper
844.SE18	1	Retractable utility knife
827B	1	Magnetic retriever
834.R2	1	Articulated mirror
815A	1	Vernier caliper to 1/10 mm
673838	1	Pre-insulated terminal crimping pliers

Additional services

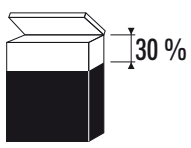
This symbol shows the % storage space remaining when the tools are in place.



Set CM.150A with 7-drawer roller cabinet JET.7GXL and chest JET.C4GXL

JET7.M150A

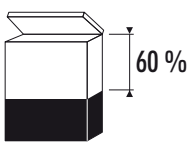
⚖ : 218.5 kg.



Set CM.150A with workbench 2000.BB1 and cabinet 2210

2000.BBM150A

- Supplied with set of hooks CKS.2230-150.



184-piece mechanical tool set

CM.140A

• Metric set supplied loose, as below.
⚖ : 34,5 kg.

Ref.	Qty	Description
440.JE18	18	Combination wrenches 6 to 24 mm
440	6	Combination wrenches 26 to 30 and 32 mm
39.JE10T	10	Roll set of short combination wrenches 3.2 to 11 mm
44.JE12	12	Open-end wrenches 6 to 32 mm
113A.10C	1	Adjustable wrench 10"
S.440AP	29	Socket set ☐ 1/2" : 8 to 32 mm and accessories (in a case)
R.425AP	26	Sockets ☐ 1/4" : 5.5 to 14 mm and accessories (in a case)
AN	3	Screwdrivers for slotted heads 3x75 - 4x100 - 5.5x100 mm
ANF	2	Screwdrivers for slotted heads 6.5x150 - 8x200 mm
AWH10X175	1	Hexagonal blade screwdriver for slotted heads with hexagon shoulder
ANP	3	Screwdrivers for Phillips® heads no. 0-1-2
AWPH3X150	1	Hexagonal blade screwdriver for Phillips® head no. 3 with hexagon shoulder
AND	3	Screwdrivers for Pozidriv® heads no. 0-1-2
AWDH3X150	1	Hexagonal blade screwdriver for Pozidriv® head no. 3 with hexagon shoulder
A6,5x150VE	3	1,000 V insulated screwdrivers for slotted heads 3.5x100 - 4x100 - 6.5x150
AP.VE	2	1,000 V insulated screwdrivers Phillips® heads 1x100 - 2x125
701A	1	Multifunction tester
AV.HT4P	1	Voltage tester screwdriver 90 to 480 V
82H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
89.JP8	8	Torx® keys no. 10 to 45
187.18CPE	1	Sheathed combination pliers
192.16CPE	1	"Piano wire" diagonal cutters
181.25CPE	1	Lockable multigrip pliers

Ref.	Qty	Description
185.20CPE	1	Sheathed straight half-round nose pliers
188.16CPE	1	Sheathed flat-nose pliers
495.22EL	1	Heavy-duty end nippers
501	1	Long-nose lock-grip pliers
T5.L65	1	Trigger-release lock-grip pliers (with aluminium sheathing)
169E	3	Inside-circlip pliers 13 - 18 - 23.
167E	3	Outside-circlip pliers 13 - 18 - 23.
893.316	1	Locking tape measure 3 m
234	1	Scriber
DELA.1051.05	1	Rule 300 mm
804	1	Feeler gauge, 19 blades
603E	1	Hacksaw frame
660A.8	10	Bimetal hacksaw blades
STG	5	File set
AP6X80	1	Square punch
270.A	1	Spark plug brush
200H	2	Riveting hammers 26 and 32 mm
208A.32CB	1	Plastic-tip mallet
247.G	2	Sheathed nail sets 2 and 4 mm
249.G	2	Sheathed drift punches 2 and 4 mm
254A.10	1	Precision cape chisel
263.18	1	Chisel
256.4	1	Precision centre punch 4 mm
134.18	1	Pipe wrench
Y.RIV1	1	Riveting kit
374A.20	1	Double-action oil can
840.1	1	Electricians knife with wire stripper
841	1	Electricians scissors
834.R2	1	Articulated mirror

178-piece inch tool set with engineers hammer

CU.140A

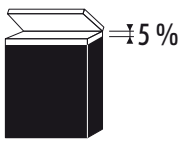
• As CM.140A, but with inch sizes replacing metric tools (as detailed below).
• Supplied loose.
⚖ : 30,6 kg.

⇉	Qty	Description
440.JU17	17	Combination wrenches 1/4" to 1 1/4".
39.JU10T	10	Roll set of short combination wrenches 1/8" to 7/16"
44.JU8T	8	Open-end wrenches 1/4"x5/16" to 1"1/8
44	3	Open-end wrenches 7/16"x1/2", 9/16"x5/8" and 11/16"x3/4"
S.440AUP	24	Socket set ☐ 1/2" : 3/8" to 1 1/4" and accessories (in a case)
R.425AUP	26	Sockets ☐ 1/4" : 7/32" to 9/16", bits and accessories (in a case)
82H.JU10	10	Wallet set of hexagonal keys 1/16" to 3/8"
800A.EX	1	Tape measure 2m/6ft
804.U	1	Feeler gauges to 1/10,000"
202H	2	Engineers hammers 1/2" and 1"

Set CM.140A with 4-drawer chest BT.64

2074.M140A

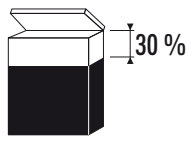
⚖ : 63.7 kg.



Set CM.140A with 7-drawer roller cabinet JET.7GXL

JET7.M140A

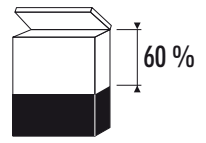
⚖ : 119.5 kg.



Set CM.140A with workbench 2000. BB1 and cabinet 2210

2000.BBM140A

• Supplied with set of hooks CKS.2230-140.



148-piece mechanical tool set

CM.130A

• Metric set supplied loose, as below.

⚖ : 21,7 kg.

⇉	Qty	Description
440.JE18	18	Combination wrenches 6 to 24 mm
44.JE12	12	Open-end wrenches 6 to 32 mm
113A.10C	1	Adjustable wrench 10"
S.440AP	29	Sockets ☐ 1/2" : 8 to 32 mm and accessories (in a case)
R.425AP	26	Sockets ☐ 1/4" : 5.5 to 14 mm and accessories (in a case)
AN	3	Screwdrivers for slotted heads 3x75 - 4x100 - 5.5x100 mm
ANF	2	Screwdrivers for slotted heads 6.5x150 - 8x200 mm
ANP	3	Screwdrivers for Phillips® heads no. 0-1-2
AND	3	Screwdrivers for Pozidriv® heads no. 0-1-2
A6,5x150VE	2	1,000 V insulated screwdrivers for slotted heads 4x100 - 6.5x150 mm
AP.VE	2	1,000 V insulated screwdrivers Phillips® heads no. 1-2
AV.HT4P	1	Voltage tester screwdriver 90 to 480 V
82H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
89.JP8	8	Torx® keys no. 10 to 45
187.18CPE	1	Sheathed combination pliers

⇉	Qty	Description
192.16CPE	1	"Piano wire" diagonal cutters
181.25CPE	1	Lockable multigrip pliers
185.20CPE	1	Sheathed straight half-round nose pliers
188.16CPE	1	Sheathed flat-nose pliers
501	1	Long-nose lock-grip pliers
169E	2	Inside-circlip pliers 13 - 18.
167E	2	Outside-circlip pliers 13 - 18.
893.316	1	Locking tape measure 3 m
603E	1	Hacksaw frame
660A.8	10	Bimetal hacksaw blades
STG	5	File set
AP6X80	1	Square punch
200H.32	1	Riveting hammer 32 mm
208A.32CB	1	Plastic-tip mallet
247.G	2	Sheathed nail sets 2 - 4 mm
249.G	2	Sheathed drift punches 2 - 4 mm
254A.10	1	Precision cape chisel
263.18	1	Chisel
256.4	1	Precision centre punch 4 mm
840.1	1	Electricians knife with wire stripper

137-piece inch tool set with engineers hammer

CU.130A

• As CM.130A, but with inch sizes replacing metric tools (as detailed below).

• Supplied loose.

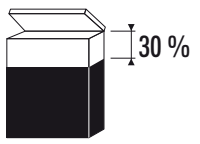
⚖ : 30,7 kg.

⇉	Qty	Description
440.JU12	12	Combination wrenches 1/4" to 15/16"
44.JU8T	8	Roll set of open-end wrenches 1/4"x5/16" to 1 1/8"x1 1/4"
44	3	Open-end wrenches 7/16"x1/2", 9/16"x5/8" and 11/16"x3/4"
S.440AUP	24	Socket set ☐ 1/2" : 3/8" to 1 1/4" and accessories (in a case)
R.425AUP	26	Sockets ☐ 1/4" : 7/32" to 9/16", bits and accessories (in a case)
82H.JU10	10	Wallet set of hexagonal keys 1/16" to 3/8"
800A.EX	1	Tape measure 2m/6ft
202H.1"	1	Engineers hammer

Set CM.130A with 4-drawer chest BT.64

2074.M130A

⚖ : 50.9 kg.



Set CM.130A with roller chest 2092A

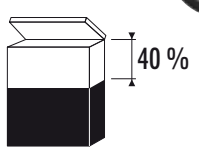
2092.M130A

⚖ : 54.2 kg.

Set CM.130A with 6-drawer roller cabinet JET.6GXL

JET6.M130A

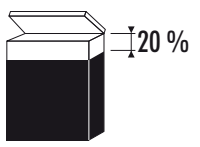
⚖ : 102.7 kg.



Set CM.130A with cabinet 2201

2201.M130A

• Supplied with set of hooks CKS.2082-130.



128-piece mechanical tool set

CM.120A

• Metric set supplied loose, as below.

⚖ : 20,2 kg.

⇉	Qty	Description
440.JE14	14	Combination wrenches 7 to 24 mm
44.JE12	12	Open-end wrenches 6 to 32 mm
113A.10C	1	Adjustable wrench 10"
RS.440E	54	Socket set 1/4" and 1/2" and accessories (in a case)
AN	3	Screwdrivers for slotted heads 3x75 - 4x100 - 5.5x100
ANF	2	Screwdrivers for slotted heads 6.5x150 - 8x200 mm
ANP	3	Screwdrivers for Phillips® heads no. 0-1-2
AND	3	Screwdrivers for Pozidriv® heads no. 0-1-2
A4X100VE	1	1,000 V insulated screwdriver for slotted heads 4 mm
AP1X100VE	1	1,000 V insulated screwdrivers for Phillips® heads no. 1
82H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
187.18CPE	1	Sheathed combination pliers
192.16CPE	1	"Piano wire" diagonal cutters

⇉	Qty	Description
181.25CPE	1	Lockable multigrip pliers
185.20CPE	1	Sheathed straight half-round nose pliers
188.16CPE	1	Sheathed flat-nose pliers
501	1	Long-nose lock-grip pliers
169E.18	1	Inside-circlip pliers
167E.18	1	Outside-circlip pliers
893.316	1	Locking tape measure 3 m
603E	1	Hacksaw frame
660A.8	10	Bimetal hacksaw blades
STG	5	File set
AP6X80	1	Square punch
200H.32	1	Riveting hammer
208A.32CB	1	Plastic-tip mallet
247.G	2	Sheathed nail sets : 2 - 4 mm
249.G	2	Sheathed drift punches sets : 2 - 4 mm
256.4	1	Precision centre punch 4 mm
840.1	1	Electricians knife with wire stripper

93-piece inch tool set with engineers hammer

CU.120A

• As CM.120A, but with inch sizes replacing metric tools. No ☐ 1/4" sockets and accessories (as below).

• Supplied loose.

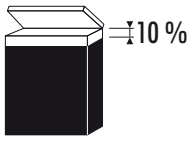
⚖ : 18,9 kg.

⇉	Qty	Description
440.JU12	12	Combination wrenches 1/4" to 15/16".
44.JU8T	8	Open-end wrenches 1/4"x5/16" to 1"1/8
S.440AUP	24	Socket set ☐ 1/2" : 3/8" to 1 1/4" and accessories(in a case)
82H.JU10	10	Wallet set of hexagonal keys 1/16" to 3/8"
800A.EX	1	Tape measure 2m/6ft
202H.1"	1	Engineers hammer

Set CM.120A with 2-drawer chest BT.62A

2070.M120A

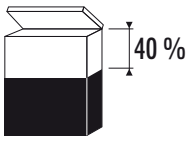
⚖ : 39.2 kg.



Set CM.120A with roller chest 2092A

2092.M120A

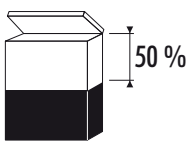
⚖ : 52.7 kg.



Set CM.120A with 5-drawer roller cabinet JET.5GXL

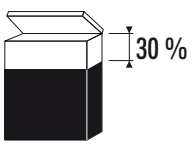
JET5.M120A

⚖ : 89.2 kg.



Set CM.120A with cabinet 2201

2201.M120A



84-piece mechanical tool set

CM.110A

• Metric set supplied loose, as below.

⚖ : 15 kg.

⊃	Qty	Description
440.JE14	14	Combination wrenches 7 to 24 mm
113A.10C	1	Adjustable wrench 10"
RS.430E	30	Socket set 1/4" and 1/2" and accessories (in a case)
AN	3	Screwdrivers for slotted heads 3x75 -4x100 - 5.5x100 mm
ANF	2	Screwdrivers for slotted heads 6.5x150 - 8x200 mm
ANP	3	Screwdrivers for Phillips® heads no. 0-1-2
AND2X125	1	Screwdrivers for Pozidriv®
A4X100VE	1	1,000 V insulated screwdriver for slotted heads 4 mm
82H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
187.18CPE	1	Sheathed combination pliers
192.16CPE	1	"Piano wire" diagonal cutters
181.25CPE	1	Lockable multigrip pliers

⊃	Qty	Description
185.20CPE	1	Sheathed straight half-round nose pliers
188.16CPE	1	Sheathed flat-nose pliers
501	1	Long-nose lock-grip pliers
169E.18	1	Inside-circlip pliers
167E.18	1	Outside-circlip pliers
893.316	1	Locking tape measure 3 m
603E	1	Hacksaw frame
660A.8	10	Bimetal hacksaw blades
AP6X80	1	Square punch
200H.32	1	Riveting hammer 32 mm
208A.32CB	1	Plastic-tip mallet
247.G	2	Sheathed nail sets 2 - 4 mm
249.G	2	Sheathed drift punches 2 - 4 mm
256.4	1	Precision centre punch 4 mm
840.1	1	Electricians knife with wire stripper

84-piece inch tool set with engineers hammer

CU.110A

• As CM.110A, but with inch sizes replacing metric tools (as detailed below).

• Supplied loose.

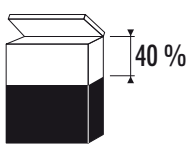
⚖ : 14.75 kg.

⊃	Qty	Description
440.JU12	12	Combination wrenches 1/4" to 15/16".
S.440AUP	24	Socket set ☐ 1/2" : 3/8" to 1 1/4" and accessories(in a case)
82H.JU10	10	Wallet set of hexagonal keys 1/16" to 3/8"
800A.EX	1	Tape measure 2m/6ft
202H.1"	1	Engineers hammer

Set CM.110A with 5-compartment toolbox BT.11A

2050.M110A

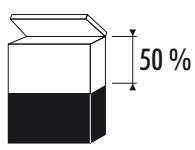
⚖ : 19.5 kg.



Set CM.110A with roller chest JET. CR4GXL

CR4.M110A

⚖ : 86 kg.



60-piece mechanical tool set

CM.100A

• Metric set supplied loose, as below.

⚖ : 10,4 kg.

⇉	Qty	Description
440.JE14	14	Combination wrenches 7 to 24 mm
S.430ADP	26	"Radio" socket set 10 to 32 mm (in a case)
AN	3	Screwdrivers for slotted heads 3x75 - 4x100 - 5.5x100 mm
ANF	2	Screwdrivers for slotted heads 6.5x150 - 8x200 mm
ANP	3	Screwdrivers for Phillips® heads no. 0-1-2
A4X100VE	1	1,000 V insulated screwdriver for slotted heads 4 mm

⇉	Qty	Description
187.18CPE	1	Sheathed combination pliers
192.16CPE	1	Diagonal cutters
181.25CPE	1	Lockable multigrip pliers
893.316	1	Locking tape measure 3 m
603E	1	Hacksaw frame
660A.8	10	Bimetal hacksaw blades
200H.32	1	Riveting hammer 32 mm
247.G	2	Sheathed nail sets 2 - 4 mm
249.G	2	Sheathed drift punches 2 - 4 mm

56-piece inch tool set with engineers hammer

CU.100A

• As CM.100A, but with inch sizes replacing metric tools (as detailed below).

• Supplied loose.

⚖ : 14.9 kg.

⇉	Qty	Description
440.JU12	12	Combination wrenches 1/4" to 15/16".
S.440AUP	24	Socket set ☐ 1/2" : 3/8" to 1 1/4" and accessories (in a case)
202H.1"	1	Engineers hammer
800A.EX	1	Tape measure 2m/6ft

Set CM.100A with 66 cm plastic toolbox BP.P26

2026.M100A

Set CM.110A with tool bag BS.T20

2120.M110A

39-piece mechanical tool set

CM.LT3

• Metric set supplied loose, as below.
⚖ : 4,65 kg.

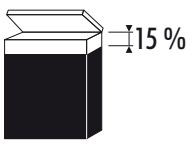
⊃	Qty	Description
440.JE9	9	Combination wrenches 7 to 19 mm
75.JN10	10	Open-socket wrenches 8 to 19 mm
AN	2	Round blade screwdrivers 3.5x100 - 5.5x150 mm
AND	2	Insulated screwdrivers for Pozidriv® heads no. 1 and 2
82H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm

⊃	Qty	Description
192.16G	1	Diagonal cutters
187.18G	1	Combination pliers
181.25CPE	1	Lockable multigrip pliers
200H.32	1	Riveting hammer
249	2	Drift punches 4 - 6 mm
263.18	1	Chisel

Set CM.LT3 with 2-compartment toolbox BT.6A

2060.LT3

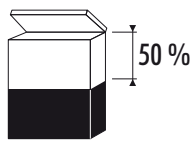
⚖ : 7.8 kg.



Set CM.LT3 with 5-compartment toolbox BT.11A

2050.LT3

⚖ : 9.5 kg.

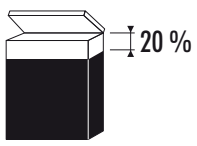


Electromechanical and servicing

Set CM.EM40A with trolley case BV.21TR1

2238.EM40A

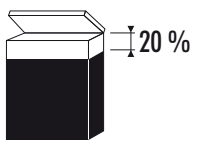
• 530 x 390 x 180 mm.
⚖ : 9.7 kg.



Set CM.EM40A with trolley case BV.21ST

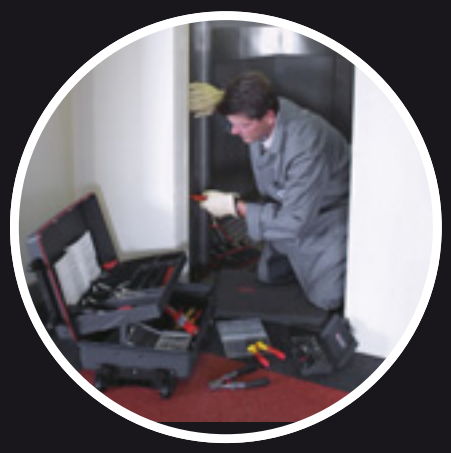
2038.EM40A

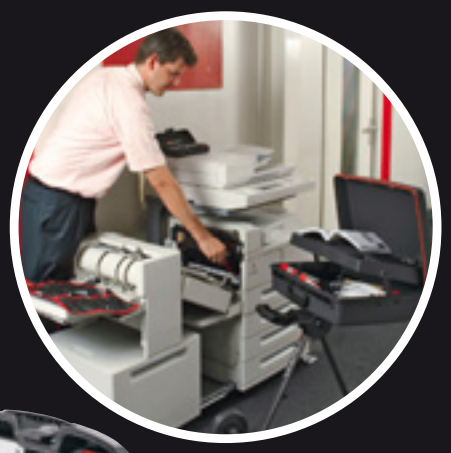
• 475 x 360 x 180 mm.
⚖ : 8,6 kg.



Electromechanical tool sets

DEDICATED KITS





Each tool set is available with or without a service case.

- ***Sturdy and compact :***
  these cases are designed to transform into genuine on-site workstations. Tidy storage arrangements and instant tool identification save time and avoid leaving tools behind after job completion.

- ***Easily transportable :***
  sturdy integral folding and lockable trolley system for quickly and effortlessly transporting tools between servicing jobs.
- ***Trolley-mounted case :***
  makes transport easier and allows unrestricted working, with the tools always at the right height.

For details of our complete range of cases see p. 35

64-piece tool set

CM.EM40A

• Supplied loose, as below.⚖ : 4,5 kg.

	Qty	Description
44.JE9T	9	Roll set of open-end wrenches 3.2 to 19 mm
113A.6C	1	Adjustable wrench
R.420P	18	"Radio" socket set 3.2 to 14 mm and accessories
AN4X35	1	Stubby screwdriver 4 mm
A6,5x150VE	4	Screwdrivers for slotted heads 3.5x75 - 4x100 - 5.5x125 - 6.5x150 mm
AP.VE	3	1,000V insulated screwdrivers for Phillips® heads no. 0 - 1 - 2
AFU.2	1	Screw starter for slotted heads
83H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
193.16CPE	1	Sheathed straight half-round nose "telephone"pliers
183.16CPE	1	Angled half-round nose "television" pliers
194.17CPE	1	Sheathed end-entry wire stripper

	Qty	Description
181.25CPE	1	Lockable multigrip pliers
405.15	1	Precision diagonal cutters, axial cut
1116B.BW	1	Dual-rating soldering iron (20/40W)
661626	1	Reel of solder wire
839A	1	Desoldering pump
841	1	Electricians scissors
840.1	1	Electricians knife with wire stripper
251A	3	Drift punches 2 - 3 - 4 mm
893.213	1	Locking tape measure 2m
149.Y	1	Precision tweezers
834.R1	1	Articulated mirror
835A	1	Spring hook
836	1	Pen light

103-piece tool set

CM.EM41A

• Supplied loose, as below.

⚖ : 6,3 kg.

⇉	Qty	Description
39.JE16T	16	Roll set of combination wrenches 3.2 to 17 mm
113A.6C	1	Adjustable wrench
R.420P	18	"Radio" socket set 3.2 to 14 mm and accessories
A6,5x150VE	4	1000v Insulated screwdrivers for slotted heads 3,5x100 - 4x100 - 5,5x125 - 6,5x150 mm
AN4X35	1	Stubby screwdriver 4 mm
ANP1X35	1	Stubby screwdriver for Phillips® heads no. 1
AP.VE	3	Insulated screwdrivers for Phillips® heads no. 0 - 1 - 2
AD.VE	2	Insulated screwdrivers for Pozidriv® heads no. 1 - 2
AFU.2	1	Screw starter for slotted heads
AFUX.1	1	Screw starter for cross-heads
94	4	Box-shank nut spinners 4 - 5 - 6 - 8 mm
82H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
181.18G	1	Lockable multigrip pliers
179E.13	1	Inside-circlip pliers
177E.13	1	Outside-circlip pliers
405.MT	2	Precision diagonal cutters
401.MT	1	Extra-long flat-nose precision pliers
402.MT	1	Precision half-round nose pliers

⇉	Qty	Description
403.MT	1	Precision angled half-round nose pliers
449I	1	Crimping pliers
1116B.BW	1	Dual-rating soldering iron (20/40W)
661626	1	Reel of solder wire
839A.1	1	Desoldering pump
1195	3	Wallet set of soldering accessories
841	1	Electricians scissors
840.1	1	Electricians knife with wire stripper
AIG.PAM160T2	1	Flat needle file 160 mm
AIG.RD160T2	1	Round needle file 160 mm
200H.26	1	Riveting hammer
251A	4	Drift punches 1 - 2 - 3 - 4 mm
256.2,5	1	Precision centre punch
234	1	Scriber
893.213	1	Locking tape measure 2m
804	1	Feeler gauge, 19 blades
AE.J1	8	Case set of Micro-Tech® screwdrivers 1 to 2.5 mm and cross-head screwdrivers 000 and 00
149.Y	1	Precision tweezers
152.Y	1	Angled tweezers
153	1	Crossover tweezers
834	1	Inspection mirror
835A	1	Spring hook
836	1	Pen light
827.1	1	Magnetic retriever

Specialised tools

1,000 V insulated tools
See section 16 622

Dedicated electricians tools.
See section 16 622

Dedicated electronics tools.
See section 17 670

ESD anti-static tools.
See section 17 670

Set CM.EM41A with case BV.29P and trolley BV.C1

2021.EM41A

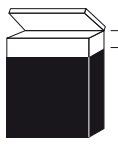
⚖ : 16.6 kg.

Set CM.EM41A with trolley case BV.51A

2208.EM41A

• 475 x 360 x 180 mm.

⚖ : 11,2 kg.

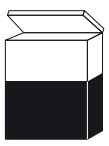


Set CM.EM41A with trolley case BV.61

2061.EM41A

470 x 390 x 347 mm.

⚖ : 16 kg.



119-piece metric and inch tool set

CM.INFO

• Supplied loose, as below.

⚖ : 6,4 kg.

⇉	Qty	Description
22.JE6T	6	Roll set of miniature open-end wrenches 3.2
22.JU5T	5	Roll set of miniature open-end wrenches 3/16" to 9/16"
44.14X15	1	Open-end wrench 14 x 15 mm
113A.8C	1	Adjustable wrench
R.420MU	28	Sockets☑ 1/4" : de 3.2 to 13 mm and 3/16" to 9/16" and accessories
A6,5x150VE	5	Insulated screwdrivers 3.5x75 - 4x100 - 5.5x125 - 6.5x150 - 8x150 mm
AN5,5X35	1	Stubby screwdriver 5.5 mm
ANF10X200	1	Forged blade screwdriver 10 mm
AP.VE	3	Insulated screwdrivers for Phillips® heads no. 0 - 1 - 2
ANP1X35	1	Stubby screwdriver for Phillips® heads no. 1
AMR	1	Multi-blade "radio" screwdriver
AEF.J1	5	Case set of Micro-Tech® screwdrivers
AFU.1	1	Screw starter for slotted heads
82H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
82H.JU7	7	Wallet set of short hexagonal keys 0.028 to 3/32"
83H.JU10	10	Wallet set of long-reach hexagonal keys 1/16" to 3/8"
188.16CPE	1	Sheathed flat-nose pliers
195.CPE	1	Sheathed angled half-round nose pliers
181.25CPE	1	Lockable multigrip pliers
405.10MT	1	Heavy-duty diagonal cutters

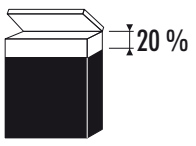
⇉	Qty	Description
405.MT	1	Precision diagonal cutters
432.LMT	1	Electronics gripping pliers
433.LMT	1	Angled half-round nose pliers
438	1	Round-nose ring pliers
405.15	1	Precision diagonal cutters, axial cut
163	1	Wire strippers and cutters
1230.40	1	Electronic soldering iron 40 W
661626	1	Reel of solder wire
839A.1	1	Desoldering pump
1802A	2	Black and red mini wire-holders
826.0	1	Mechanical retriever
841.0	1	Electricians scissors
840.1	1	Electricians knife with wire stripper
AS.6L140T2	6	Roll set of needle files
207A.32CB	1	Plastic-tip mallet
251A	3	Drift punches 1.5 - 2.5 - 3.5 mm
893.213	1	Locking tape measure 2m
804	1	Feeler gauge, 19 blades
804.U	1	Feeler gauges to 1/10,000"
149.Y	1	Precision tweezers
836	1	Pen light
834.R1	1	Articulated mirror
835A	1	Spring hook

Set CM.INFO with case BV.21ST

2038.INFO

• 530 x 390 x 180 mm.

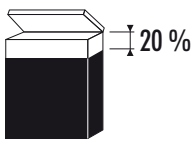
⚖ : 10,5 kg.



Set CM.INFO with case BV.29P and trolley BV.C1

2029.INFO

⚖ : 16.1 kg.



101-piece metric tool set

• Supplied loose, as below.

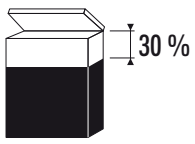
⇉	Qty	Description
440	13	Combination wrenches 5.5 - 6 to 14 - 16 to 18 mm
R.425AP	26	Sockets ☐ 1/4" : 5.5 to 14 mm and accessories (in a case)
AN	3	Machined round-blade screwdrivers 3.5x75 - 5.5x100 - 6.5x150 mm
A4X100VE	1	Insulated screwdriver 4 mm
AN6,5X35	1	Stubby screwdriver for slotted heads 6.5 mm
ANP	3	Screwdrivers for Phillips® heads no. 0 - 1 - 2
AFU.2	1	Screw starter for slotted heads
AFUX.1	1	Screw starter for cross-heads
ARZ.4	1	Round blade offset screwdriver 4 mm
MT.J3	11	Micro-Tech® tools
83H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
187.18CPE	1	Sheathed combination pliers
188.20CPE	1	Sheathed flat-nose pliers
183.20CPE	1	Sheathed angled half-round nose pliers
391.16CPE	1	Sheathed diagonal cutters
181.18G	1	Lockable multigrip pliers

⇉	Qty	Description
467	1	Set of outside-circlip pliers + tips
469	1	Set of inside-circlip pliers + tips
163	1	Wire strippers and cutters
1230.40	1	Electronic soldering iron 40 W
661626	1	Reel of solder wire
839A	1	Desoldering pump
1802A	2	Black and red mini wire-holders
840.1	1	Electricians knife with wire stripper
AS.6L180T0	6	Roll set of needle files
200H.26	1	Riveting hammer
207A.32CB	1	Plastic-tip mallet
251A	5	Drift punches 1.5 - 2 - 3 - 4 - 5 mm
256.2,5	1	Precision centre punch
234	1	Scriber
893.213	1	Locking tape measure 2m
804	1	Feeler gauge, 19 blades
827B	1	Magnetic retriever

Set CM.BUR1 with case BV.21ST

2038.BUR1

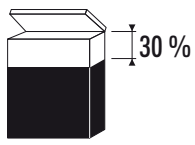
• 530 x 390 x 180 mm.
⚖ : 10,9 kg.



Set CM.BUR1 with case BV.29P and trolley BV.C1

2029.BUR1

⚖ : 16.5 kg.



110-piece inch tool set

CM.BUR3

• As CM.BUR1, but with inch sizes replacing metric tools (as detailed below).
• Supplied loose.
⚖ : 7,2 kg.

⇉	Qty	Description
440	10	Combination wrenches 1/4" to 3/4".
R.425AUP	26	Sockets ☐ 1/4" : 7/32" to 9/16", bits and accessories (in a case)
83H.JU10	10	Wallet set of long-reach hexagonal keys 1/16" to 3/8"
83H	3	Set of long-reach hexagonal keys 7/64", 1/8" and 1/2"
82H.JU7	7	Wallet set of short hexagonal keys 0.028 to 3/32"
82H.9/64	1	Key
804.U	1	Thickness gauge to 1/10,000"
202H.1/2	1	Riveting hammer

31-piece tool set

CM.EL29

• Supplied loose.

⚖ : 1,9 kg.

⊃	Qty	Description
AN	3	Screwdrivers for slotted heads 3x75 - 4x100 - 5.5x150 mm
ANP	3	Insulated screwdrivers for Phillips® heads no. 0 - 1 - 2
406.8MT	1	Semi-flush diagonal cutter
432.MT	1	Precision half-round straight pliers
149.Y	1	Precision tweezers
AEF.J3	8	Micro-Tech®screwdrivers
841.2	1	Scissors
845.1	1	Interchangeable-blade scalpel
1230.30	1	Soldering iron 30 W
661626	1	Reel of solder wire
839A.1	1	Desoldering pump
DELA1031.01	1	Rule 150 mm
113A.6C	1	Adjustable wrench
AS.6L140T2	6	Roll set of needle files
181.18G	1	Lockable multigrip pliers

Set CM.EL29 with soft case BV.16

2138.EL29

• Dimensions : 440 x 315 x 75 mm.

⚖ : 2,8 kg.

41-piece metric tool set

CM.EL30

• Supplied loose.

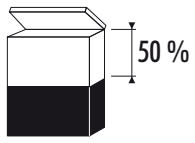
⚖ : 2,5 kg.

⊃	Qty	Description
22.JE6T	6	Roll set of miniature open-end wrenches 3.2 to 13 mm
A.65x150	4	Insulated screwdrivers 3.5x75 - 4x100 -5.5x150 - 6.5x150 mm
AP.VE	3	Insulated screwdrivers for Phillips® heads no. 0-1-2
AD.VE	3	Insulated screwdrivers for Pozidriv® heads no. 0-1-2
AMR	1	Multiblade screwdrivers 1.5 - 2 and 2.5 mm
HT.2X2,4	1	Tuning screwdriver for slotted heads 2 and 2.4 mm
74.JL9	9	Nut spinners 3.2 to 10 mm
405.12MT	1	Precision diagonal cutters
406.MT	1	Diagonal cutters
431.MT	1	Short-nose pliers
433.LMT	1	Angled half-round nose pliers
449I	1	Crimping pliers
1230.30	1	Soldering iron 30 W
661626	1	Reel of solder wire
839A.1	1	Desoldering pump
841.4	1	Electricians scissors
840.1	1	Electricians knife with wire stripper
AIG.PAM140T2	1	Flat needle file 140 mm
AIG.RD160T2	1	Round needle file 160 mm
149.Y	1	Precision tweezers
1830.1	1	Extra-soft silk brush

Set CM.EL30 with 3-compartment toolbox BT.9

2132.EL30

• Dimensions : 470 x 220 x 170 mm.
⚖ : 5,9 kg.



53-piece metric tool set metric

CM.EL31

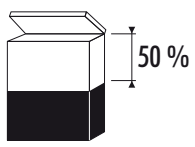
• Supplied loose.
⚖ : 4,2 kg.

	Qty	Description
R.430AP	27	Sockets ☐ 1/4" and accessories
A.65x150	4	Insulated screwdrivers for slotted heads 2.5x50 - 3.5x75 - 4x100 - 5.5x150 mm
AP.VE	2	Insulated screwdrivers for Phillips® heads no. 0 - 1
AD.VE	2	Insulated screwdrivers for Pozidriv® heads no. 0 - 1
HT.2X2,4	1	Tuning screwdriver for slotted heads 2 and 2.4 mm
AEF.J1	5	Case set of Micro-Tech® screwdrivers
178A.CP	1	"Radio" multigrip pliers
405.12MT	1	Precision diagonal cutters
406.MT	1	Diagonal cutters
420.MT	1	Shaping pliers
431.LMT	1	Electronics flat-nose pliers
433.LMT	1	Angled half-round nose pliers
449I	1	Crimping pliers
1230.30	1	Soldering iron 30 W
661626	1	Reel of solder wire
839A.1	1	Desoldering pump
AFU.0	1	Screw starter-"electronic"
1830.1	1	Extra-soft silk brush

Set CM.EL31 with 3-compartment box BT.9

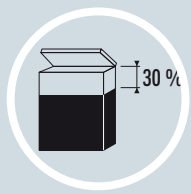
2132.EL31

• Dimensions : 470 x 220 x 180 mm.
⚖ : 7,6 kg.



Additional services

This symbol shows the % storage space remaining when the tools are in place.



66-piece metric tool set

CM.EL32

• Supplied loose.

⚖ : 4,5 kg.

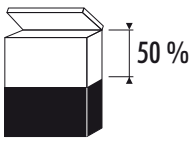
	Qty	Description
22.JE6T	6	Roll set of miniature open-end wrenches 3.2 to 13 mm
113A.6C	1	Adjustable wrench
R.420P	19	"Radio" socket set 3.2 to 14 mm and accessories
A6,5x150VE	3	1,000 V insulated screwdrivers for slotted heads 3.5x75 - 4x100 - 5.5x150 mm
AP.VE	2	1,000 V insulated screwdrivers for Phillips® heads no. 0-1
AD.VE	2	1,000 V insulated screwdrivers for Pozidriv® heads no. 0 - 1
AN4X35	1	Stubby screwdriver 4 mm
AMR	1	Multi-blade "radio" screwdriver
HT.2X2,4	1	Tuning screwdriver for slotted heads 2 and 2.4 mm
83SH.JP9	9	Sleeve set of spherical head hex keys 1.5 to 10 mm
AFU.0	1	Screw starter-"electronic"
181.18G	1	Lockable multigrip pliers
405.12MT	1	Precision diagonal cutters
406.MT	1	Diagonal cutters
431.MT	1	Short-nose pliers
420.MT	1	Shaping pliers
433.LMT	1	Angled half-round nose pliers
449I	1	Crimping pliers
1230.30	1	Soldering iron 30 W
661626	1	Reel of solder wire
839A.1	1	Desoldering pump
841.4	1	Electricians scissors
840.1	1	Electricians knife with wire stripper
AIG.PAM140T2	1	Flat needle file 140 mm
AIG.RD160T2	1	Round needle file 160 mm
DELA.892.02	1	Locking tape measure 2 m
149.Y	1	Precision tweezers
834	1	Inspection mirror
835A	1	Spring hook
836	1	Pen light
1830.1	1	Extra-soft silk brush

Set CM.EL32 with case BV.51A

2208.EL32

• Dimensions : 475 x 360 x 180 mm.

⚖ : 9,4 kg.



89-piece metric tool set

CM.EL33

• Supplied loose.
⚖ : 4,7 kg.

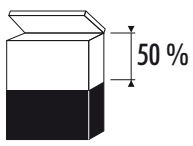
	Qty	Description
39.JE10T	10	Roll set of short combination wrenches 3.2 to 11 mm
113A.6C	1	Adjustable wrench
R.420P	19	"Radio" socket set 3.2 to 14 mm and accessories
A.65x150	4	Insulated screwdrivers for slotted heads 2.5x50 - 3.5x75 - 4x100 - 5.5x150 mm
AP.VE	2	Insulated screwdrivers for Phillips® heads no. 0 - 1
AD.VE	2	Insulated screwdrivers for Pozidriv® heads no. 0 - 1
AN4X35	1	Stubby screwdriver 4 mm
ANP1X35	1	Stubby screwdriver for Phillips® heads no. 1
AMR	1	Multiblade screwdriver 1.5 - 2 - 2.5 mm
HT.3	2	Tuning screwdrivers
AFU.1	1	Screw starter for slotted heads
AFUX.1	1	Screw starter for cross-heads
83SH.JP9	9	Sleeve set of spherical head hex keys 1.5 to 10 mm
181.18G	1	Lockable multigrip pliers
194.17VE	1	1,000 V insulated wire stripper
405.12MT	1	Precision diagonal cutters
406.MT	1	Diagonal cutters
431.MT	1	Short-nose pliers

	Qty	Description
420.MT	1	Shaping pliers
403.MT	1	Precision angled half-round nose pliers
438	1	Straight-nose ring pliers
1230.30	1	Soldering iron 30 W
661626	1	Reel of solder wire
839A.0	1	Desoldering pump
1195	3	Wallet set of soldering accessories
1802A	2	Black and red mini wire-holders
1803A	2	Black and red probes
1804B	2	Black and red connection leads
841.4	1	Electricians scissors
840.1	1	Electricians knife with wire stripper
AS.6L140T2	6	Roll set of needle files
DELA.892.02	1	Locking tape measure 2 m
149.Y	1	Precision tweezers
827.2	1	Magnetic retriever
834.R1	1	Articulated mirror
835A	1	Spring hook
836	1	Pen light
1830.1	1	Extra-soft silk brush

Set CM.EL33 with case BV.21SX

2138.EL33

• Dimensions 530 x 390 x 180 mm.
⚖ : 8,9 kg.



103-piece metric and inch tool set

CM.EL34

• Supplied loose.
⚖ : 2,5 kg.

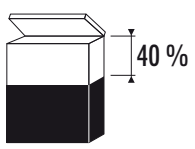
⇉	Qty	Description
22.JE6T	6	Roll set of miniature open-end wrenches 3.2 to 13 mm
22.JU5T	5	Roll set of miniature open-end wrenches 3/16" to 9/16"
113A.6C	1	Adjustable wrench
R.420MU	28	Sockets☑ 1/4" : de 3.2 to 13 mm and 3/16" to 9/16" and accessories
A6,5x150VE	3	Insulated screwdrivers for slotted heads 3.5x75 - 4x100 - 5.5x150 mm
AN4X35	1	Screwdrivers for slotted heads - Short blades 4x35
AP.VE	2	Insulated screwdrivers for Phillips® heads no. 0 - 1
ANP1X35	1	Insulated screwdrivers for Phillips® PH 1 1000V
AD.VE	2	Insulated screwdrivers for Pozidriv® heads no. 0 - 1
AMR	1	Multi-blade "radio" screwdriver
AFUX.1	1	Screw starter for cross-heads
82H.JU10	10	Wallet set of hexagonal keys 1/16" to 3/8"
82H.JE10	10	Wallet set of hexagonal keys 0.9 to 6 mm
181.18G	1	Lockable multigrip pliers
405.12MT	1	Precision diagonal cutters
405.MT	1	Precision diagonal cutters
416.PMT	1	Semi -flushcutter
431.MT	1	Short-nose pliers
433.LMT	1	Angled half-round nose pliers
449I	1	Crimping pliers
1230.30	1	Soldering iron 30 W
661626	1	Reel of solder wire
839A	1	Desoldering pump
1195	3	Wallet set of soldering accessories
1802A	2	Black and red mini wire-holders
1803A	2	Black and red probes
1804B	2	Black and red connection leads
841.4	1	Electricians scissors
840.1	1	Electricians knife with wire stripper
DELA.892.02	1	Locking tape measure 2 m
AFU.0	1	Screw starter "electronic"
153	1	Crossover tweezers

⇉	Qty	Description
149.Y	1	Precision tweezers
152.Y	1	Angled tweezers
826.0	1	Mechanical retriever
834	1	Inspection mirror
835A	1	Spring hook
836	1	Pen light
1830.1	1	Extra-soft silk brush
HT.2X2,4	1	Tuning screwdriver for slotted heads 2 and 2.4 mm

Set CM.EL34 with case BV.21SX

2138.EL34

• Dimensions : 530 x 390 x 180 mm.
⚖ : 6,7 kg.



149-piece metric and inch tool set

CM.EL35

- As CM.EL34 but with additional tools listed below.
- Supplied loose.

⚖ : 4,5 kg.

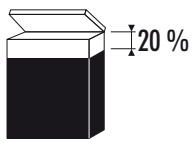
	Qty	Description
APZ.A	1	Dual-size offset screwdriver for Phillips® heads no. 0 - 1
ARZ.4	1	Round blade offset screwdriver 4 mm
HT.3X4	1	Tuning screwdrivers
827.2	1	Magnetic retriever
82H.JU7	7	Wallet set of short hexagonal keys 0.028 to 3/32"
432.MT	1	Precision half-round straight pliers
1130.1	1	Desoldering braid
AS.6L140T2	6	Roll set of needle files
200H.26	1	Riveting hammer
251A.JT9	9	Drift punches with guide sleeve 1 to 6 mm
AE.J1	8	Case set of Micro-Tech® screwdrivers 1 to 2.5 mm and cross-head screwdrivers 000 and 00
84E.J1	6	Case-set of nut spinners
146.2Y	1	Gripping tweezers
438	1	Round-nose ring pliers
372	1	Spot oiler

Set CM.EL35 with case BV.21SX

2138.EL35

- Dimensions : 530 x 390 x 180 mm.

⚖ : 8,7 kg.



96-piece metric tool set

CM.E18

• Supplied loose.

⚖ : 10.5 kg.

⇉	Qty	Description
440.JE9	9	Set of combination wrenches 8 to 19 mm
22.JE6T	6	Roll set of miniature open-end wrenches 3.2 to 13 mm
113A.6C	1	Adjustable wrench
R.425A	26	"Radio" socket set 5.5 to 14 mm, with screwdriver bits and accessories
A6,5x150VE	4	1,000 V insulated screwdrivers 3.5x75 - 4x100 -5.5x150 - 6.5x150 mm
AP.VE	2	1,000 V insulated screwdrivers for Phillips® heads no. 1 - 2
AD.VE	2	1,000 V insulated screwdrivers for Pozidriv® heads no. 1 - 2
AF	1	Screw starter for slotted heads
AFP.1	1	Screw starter for cross-heads
AKZ	2	Offset screwdrivers 6 and 8 mm
83SH.JP9	9	Sleeve set of spherical head hex keys 1.5 to 10 mm
188.16CPE	1	Sheathed flat-nose pliers
187.18CPE	1	Sheathed combination pliers
195.20CPE	1	Sheathed angled half-round nose pliers
185.20CPE	1	Sheathed straight half-round nose pliers
391.16CPE	1	Sheathed diagonal cutters
190.20CPE	1	Sheathed end cutters
181.25CPE	1	Lockable multigrip pliers

⇉	Qty	Description
500	1	Lock-grip pliers
194.17CPE	1	Sheathed end-entry wire stripper
985956	1	Jivaro LC 28 mm sheath stripper
673838	1	Pre-insulated terminal crimping pliers
1230.40	1	Electronic soldering iron 40 W
661626	1	Reel of solder wire
826.1	1	Flexible mechanical retriever
701A	1	Multifunction tester
412B.10	1	Cable cutter
841.4	1	Electricians scissors
840.1	1	Electricians knife with wire stripper
601	1	Hacksaw frame
660A.10	10	Bimetal hacksaw blades
AP6X80	1	Square punch
200H.32	1	Riveting hammer 32 mm
203H.18	1	Electricians hammer
249	3	Drift punches 2 - 3 - 4 mm
258	1	Side-cutting chisel
256.6	1	Precision centre punch
263.15	1	Chisel
805.1	1	Vernier caliper
310B.40	1	Level 400 mm
893.316	1	Locking tape measure 3 m
803.200M	1	Stainless rule 200 mm

Set CM.E18 with 5-compartment toolbox BT.13A

2070.E18

• 550 x 220 x 235 mm.

⚖ : 16 kg.

Set CM.E18 with tool bag BS.T20

2120.E18

84-piece metric tool set

CM.E17

• Supplied loose.
⚖ : 9.2 kg.

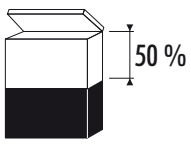
	Qty	Description
22.JE6T	6	Roll set of miniature open-end wrenches 3.2 to 13 mm
44	4	Open-end wrenches 16x17 - 18x19 - 21x23 - 22x24 mm
113A.6C	1	Adjustable wrench
R.425A	26	"Radio" socket set 5.5 to 14 mm, with screwdriver bits and accessories
A6,5x150VE	4	1,000 V insulated screwdrivers for slotted heads 3.5x75 - 4x100 - 5.5x150 - 6.5x150 mm
AP.VE	2	1,000 V insulated screwdrivers for Phillips® heads no. 1 - 2
AD.VE	2	1,000 V insulated screwdrivers for Pozidriv® heads no. 1 - 2
AF	1	Screw starter for slotted heads
AKZ	2	Offset screwdrivers 6 - 8 mm
83SH.JP9	9	Sleeve set of spherical head hex keys 1.5 to 10 mm
188.16CPE	1	Sheathed flat-nose pliers
187.18CPE	1	Sheathed combination pliers
195.20CPE	1	Sheathed angled half-round nose pliers
391.16CPE	1	Sheathed diagonal cutters
190.20CPE	1	Sheathed end cutters
181.25CPE	1	Lockable multigrip pliers

	Qty	Description
509	1	"Compact" lock-grip pliers
194.17CPE	1	Sheathed end-entry wire stripper
985956	1	Jivaro LC 28 mm sheath stripper
449I	1	Crimping pliers
1230.40	1	Electronic soldering iron 40 W
661626	1	Reel of solder wire
701A	1	Multifunction tester
412B.10	1	Cable cutter
256.6	1	Precision centre punch
263.15	1	Chisel
258	1	Side-cutting chisel
893.316	1	Locking tape measure 3 m
841.4	1	Electricians scissors
840.1	1	Electricians knife with wire stripper
601	1	Hacksaw frame
660A.10	10	Bimetal hacksaw blades
AP6X80	1	Square punch
200H.32	1	Riveting hammer 32 mm
203H.18	1	Electricians hammer
249	2	Drift punches 2 - 4 mm

Set CM.E17 with 5-compartment toolbox BT.11A

2050.E17

• 470 x 220 x 235 mm.
⚖ : 13.7 kg.



55-piece metric tool set

CM.E16

• Supplied loose, as below.

⚖ : 5.7 kg.

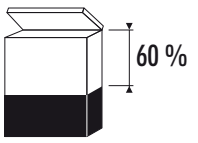
⇉	Qty	Description
44	5	Open-end wrenches 14x15 - 16x17 - 18x19 - 21x23 - 22x24 mm
22.JE6T	6	Roll set of miniature open-end wrenches 3.2 to 13 mm
113A.8C	1	Adjustable wrench
R.410D	15	"Radio" sockets 5.5 to 14 mm and accessories
A6,5x150VE	4	1,000 V insulated screwdrivers for slotted heads 2.5x50 - 3.5x100 - 4x100 - 5.5x150 mm
AP.VE	2	1,000 V insulated screwdrivers for Phillips® heads no. 0 - 1
AMS	1	Multiblade screwdriver for slotted heads 5.5 - 6.5 mm and Phillips® heads no. 1 - 2
83SH.JP9	9	Sleeve set of spherical head hex keys 1.5 to 10 mm
256.6	1	Precision centre punch
263.15	1	Chisel
187.18CPE	1	Sheathed combination pliers
391.16CPE	1	Sheathed diagonal cutters
181.25CPE	1	Lockable multigrip pliers
194.17CPE	1	Sheathed end-entry wire stripper
449I	1	Crimping pliers
841.4	1	Electricians scissors
840.1	1	Electricians knife with wire stripper
601	1	Hacksaw frame
660A.10	10	Bimetal hacksaw blades
203H.18	1	Electricians hammer

Set CM.E16 with case BV.7A

2163.E16

• 445 x 330 x 185 mm.

⚖ : 9.7 kg.



52-piece metric tool set

CM.E15

• Supplied loose, as below.

⚖ : 7.2 kg.

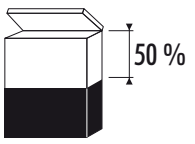
⇉	Qty	Description
22.JE6T	6	Roll set of miniature open-end wrenches 3.2 to 13 mm
113A.6C	1	Adjustable wrench
A6,5x150VE	4	1,000 V insulated screwdrivers for slotted heads 3.5x75 - 4x100 - 5.5x150 - 6.5x150 mm
AP.VE	2	1,000 V insulated screwdrivers for Phillips® heads no. 1 - 2
AD.VE	2	1,000 V insulated screwdrivers for Pozidriv® heads no. 1 - 2
AN4X35	1	Stubby screwdriver for slotted heads 4 mm
ANP1X35	1	Stubby screwdriver for Phillips® heads no. 1
AF	1	Screw starter
AKZ	2	Offset screwdrivers 6 and 8 mm
83SH.JP9	9	Sleeve set of spherical head hex keys 1.5 to 10 mm
188.16CPE	1	Sheathed flat-nose pliers
195.20CPE	1	Sheathed angled half-round nose pliers
391.16CPE	1	Sheathed diagonal cutters
190.20CPE	1	Sheathed end cutters
181.25CPE	1	Lockable multigrip pliers
194.17CPE	1	Sheathed end-entry wire stripper
673838	1	Pre-insulated terminal crimping pliers
1230.40	1	Electronic soldering iron 40 W
661626	1	Reel of solder wire
841.4	1	Electricians scissors
840.1	1	Electricians knife with wire stripper
601	1	Hacksaw frame
660A.10	10	Bimetal hacksaw blades
AP6X80	1	Square punch
200H.32	1	Riveting hammer 32 mm
203H.18	1	Electricians hammer
249	3	Drift punches 2 - 3 - 4 mm
256.6	1	Precision centre punch
263.15	1	Chisel
258	1	Side-cutting chisel
893.316	1	Locking tape measure 3 m

Set CM.E15 with 5-compartment toolbox BT.11A

2050.E15

• 470 x 220 x 235 mm.

⚖ : 11.7 kg.



Building maintenance and general servicing sets

Building fitting and maintenance

59-piece tool set

CM.SG4A

• Supplied loose, as below.

⚖ : 12 kg.

⇉	Qty	Description
44	9	Open end wrenches 6x7 mm and 44.JE8 (8 to 24 mm)
113A.12C	1	Adjustable wrench 12"
AN	2	Screwdrivers 5.5x100 - 6.5x150 mm
ANF	2	Screwdrivers for slotted heads 8x150 - 10x200 mm
ANP	2	Screwdrivers for Phillips® heads no. 1 - 2
A4X100VE	1	Insulated screwdriver for slotted heads 4 mm
AP2X125VE	1	Insulated screwdriver for Phillips® heads no. 2
AV.HT1B	1	Voltage tester screwdriver 90 to 480V
82H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
185.20G	1	Half-round nose pliers
192.16G	1	Diagonal cutters
495.25EL	1	Heavy-duty end nippers
181.25CPE	1	Lockable multigrip pliers
501	1	Long-nose lock-grip pliers
92A	9	Angled box wrenches 5.5 to 13 mm
269	1	Crowbar
841.0	1	Electricians scissors
840.1	1	Electricians knife with wire stripper
844.D	1	Retractable utility knife
601	1	Hacksaw frame
660A.10	10	Bimetal hacksaw blades
PAM.B250EM	1	Flat bastard-cut file 250 mm
DRD.MD250EM	1	Half-round second-cut file 250 mm
RD.MD200EM	1	Round second-cut file 200 mm
DRDMD250EM	1	Half-round second-cut wood rasp 250 mm
200H.32	1	Riveting hammer

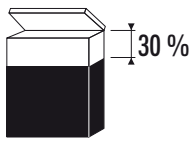
⇉	Qty	Description
256.4	1	Precision centre punch 4 mm
263.18	1	Chisel
234	1	Scriber
307A.40	1	"Builders" level, 400 mm
893.316	1	Locking tape measure 3 m
131.14	1	"Stillson" pipe wrench

Set CM.SG4A with 5-compartment tool box BT.13A

2046.SG4A

• 550 x 220 x 215 mm.

⚖ : 17.1 kg.



Electricians 15-piece tool set module

CM.SE

• Supplied loose, as below.

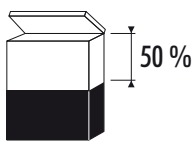
⚖ : 2 kg.

⇉	Qty	Description
A6,5x150VE	5	Insulated screwdrivers for slotted heads 2.5x50 - 3.5x75 - 4x100 - 5.5x125 - 6.5x150 mm
AP.VE	3	Insulated screwdrivers for Phillips® heads no. 0 - 1 - 2
391.16VE	1	1,000 V insulated cutting pliers
187.18VE	1	1,000V insulated combination pliers
194.17VE	1	1,000 V insulated wire stripper
449I	1	Crimping pliers
840.1	1	Electricians knife with wire stripper
405.12MT	1	Precision diagonal cutters
442.MT	1	Precision half-round nose pliers

Set CM.SE with compact leather bag BV.100

2180.SE

⚖ : 2.6 kg.



Plumbing and sanitation

Maintenance and installation

- **Sanitary facilities.**
- **Industrial networks...**

This set contains all the basic plumbing tools and can be extended to suit specific needs.

Pipework tools
See section 15 p. 600

55-piece tool set

CM.SG3A

• Supplied loose, as below.
⚖ : 19,5 kg.

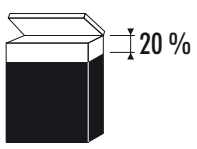
⇉	Qty	Description
44.JE12	12	Open-end wrenches 6 to 32 mm
113A.12C	1	Adjustable wrench 12"
105.280	1	Monkey wrench 70 mm
AN	2	Screwdrivers for slotted heads 3.5x75 - 4x100 mm
ATHH	3	Wood-handle screwdrivers for slotted heads 5.5x100 - 6.5x125 - 8x150 mm
ATHH.P	2	Wood-handle screwdrivers for Phillips® heads no. 1 - 2
83H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
192.16G	1	Diagonal cutters
495.25EL	1	Heavy-duty end nippers
181.25CPE	1	Lockable multigrip pliers
T5.L100	1	Large-capacity lock-grip pliers
883B	1	Right-cut scroll shears
601	1	Hacksaw frame
660A.10	10	Bimetal hacksaw blades

⇉	Qty	Description
AP6X80	1	Square punch
231	1	Three-square scraper
DRD.MD250EM	1	Half-round second-cut file 250 mm
RD.MD200EM	1	Round second-cut file 200 mm
PAM.B300EM	1	Flat bastard file, 300 mm
200H.32	1	Riveting hammer 32 mm
1262.100	1	"Builders" club hammer
1267.30P	1	Builders bar
256.4	1	Precision centre punch 4 mm
263.18	1	Chisel
307A.40	1	"Builders" level, 400 mm
DELA.401.00	1	Plastic folding rule (2 m)
131A.18	1	"Stillson" pipework wrench
136A.2	1	Chain pipe wrench
336.28	1	Slide-type pipe cutter
239.EA	1	Inch dies
239.M	1	Flaring tool die for pipes 6 to 14 mm
122.38	1	Washbasin wrench 1 1/2" (38 mm)

Set CM.SG3A with 5-compartment tool box BT.13A

2046.SG3A

• 550 x 220 x 215 mm.
⚖ : 24,6 kg.



Refrigeration and air-conditioning

Installation and repair

- **Air-conditioning.**
- **Ventilation units.**
- **Refrigeration units...**

This set caters for most on-site repairs, including electromechanical, mechanical, electrical and pipework.

Pipework tools p. 600 See section 15

87-piece tool set

CM.RFCL

• Supplied loose, as below.

⚖ : 11,8 kg.

⇉	Qty	Description
440	11	Combination wrenches 6 to 14, 17, 19 mm
44.JE12	12	Open-end wrenches 6 to 32 mm
113A.10C	1	Adjustable wrench 10"
42	4	Flare-nut wrenches 14x17 - 19x22 - 24x27 - 30x32
R.420P	18	"Radio" socket set 3.2 to 14 mm and accessories
J.210	1	"Junior" extension 125 mm
J.120A	1	"Junior" sliding tee
J	3	12-point sockets 13 - 17 - 19 mm
AN	4	Screwdrivers for slotted heads 3.5x75 - 4x100 - 5.5x150 - 8x150 mm
AN	2	Stubby screwdrivers 4 and 6.5 mm
ANP	2	Screwdrivers for Phillips® heads no. 1 - 2
ARZ	3	Round-blade offset screwdrivers 4 - 5.5 and 6.5 mm
AKZ	2	Hexagon-blade offset screwdrivers 6 and 8 mm
AV.HT2B	1	110-250 V voltage tester screwdriver

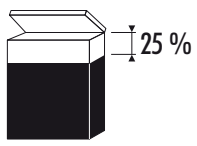
⇉	Qty	Description
187.18CPE	1	Sheathed combination pliers
193.16CPE	1	Sheathed straight half-round nose "telephone" pliers
192.16CPE	1	"Piano wire" diagonal cutters
181.25CPE	1	Lockable multigrip pliers
840.1	1	Electricians knife with wire stripper
601	1	Hacksaw frame
CLE.MDAM	6	Wallet set of locksmiths files
200H.32	1	Riveting hammer 32 mm
256.4	1	Precision centre punch 4 mm
263.15	1	Chisel
249	2	Precision drift punches 2 and 4 mm
893.316	1	Locking tape measure 3 m
238	2	Copper pipe mini-cutters 16 and 32
239.EA	1	Inch dies
239.M	1	Flaring tool die for pipes 6 to 14 mm

Set CM.RFCL with leather case BV.7A

2163.RFCL

• 480 x 200 x 350 mm.

⚖ : 15,8 kg.



Plant and equipment maintenance sets

Park and garden sets

Service and repair of

- **Mowers.**
- **Mini-tractors.**
- **Brush cutters.**
- **Chainsaws....**

Set contains metric and inch tools to cover all popular makes.

118-piece tool set

CM.JA

• Supplied loose, as below.

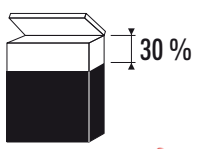
⚖ : 18,4 kg.

⊃	Qty	Description
440.JE18	18	Combination wrenches 6 to 24 mm
440.JU12	12	Combination wrenches 1/4" to 15/16".
34.JT8	8	Miniature open-end wrenches 3.2 to 8 mm
75.JE16	16	Open-socket wrenches 8 to 24 mm
75.JU10	10	Open-socket wrenches 5/16" to 7/8"
75	4	Open-socket wrenches 6 and 7 mm, 1/4" and 15/16"
AN	4	Screwdrivers for slotted heads : 3.5x75 - 4x100 - 5.5x100 - 6.5x150 mm
ANF	2	Screwdrivers for slotted heads 8x150 - 10x200 mm
ANP	3	Screwdrivers for Phillips® heads no. 1 - 2 - 3
82H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
82H.JU10	10	Wallet set of hexagonal keys 1/16" to 3/8"
188.20CPE	1	Sheathed flat-nose pliers
195.CPE	1	Sheathed angled half-round nose pliers
192.18CPE	1	Sheathed diagonal cutters
181.25CPE	1	Lockable multigrip pliers
500	1	Lock-grip pliers
179E	2	Inside-circlip pliers 13 - 18
177E	2	Outside-circlip pliers 13 - 18
200H	2	Riveting hammers 26 and 40 mm
248.JT7	7	Long drift punches 2 to 6 - 8 - 10 mm
256.4	1	Precision centre punch 4 mm
262A.18	1	Constant-profile chisel
893.316	1	Locking tape measure 3 m
804	1	Feeler gauge, 19 blades

Set CM.JA with 5-compartment tool box BT.13A

2046.JA

⚖ : 23.9 kg.



Handling equipment sets

Service and repair of

• combustion engine or electric motor-driven handling equipment.

Full set of tools for any warehouse or site without a workshop.

Multimeter. See section 17 p. 670

Tools for internal combustion engines p. See section 18 712

102-piece tool set

CM.MAN

• Supplied loose, as below.

⚖ : 19,7 kg.

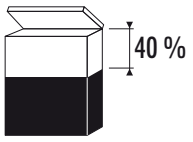
	Qty	Description
440.JE11	11	Combination wrenches 7 to 19 mm
42	3	Flare-nut wrenches : 11x13 - 14x17 - 19x22 mm
113A.12C	1	Adjustable wrench 12"
RS.430E	30	Socket set 1/4" and 1/2" and accessories (in a case)
AN	3	Screwdrivers for slotted heads : 4x100 - 5.5x100 - 6.5x150 mm
ANF8X150	1	Screwdrivers for slotted heads 8 mm
A6,5x150VE	2	1,000 V insulated screwdrivers 3.5x100 - 5.5x150 mm
ANP	3	Screwdrivers for Phillips® heads no. 1 - 2 - 3
AP1X100VE	1	1,000 V insulated screwdrivers for Phillips® heads no. 1
83H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
192.16G	1	Diagonal cutters
391.16VE	1	1,000 V insulated cutting pliers
181.25CPE	1	Lockable multigrip pliers
185.20G	1	Half-round nose pliers
187.16G	1	Combination pliers
187.18VE	1	1,000 V insulated combination pliers
177E	2	Outside-circlip pliers 13 - 18.
179E	2	Inside-circlip pliers 13 - 18.
501	1	Long-nose lock-grip pliers
803.300M	1	Flexible stainless 2-sided rule
805.1	1	Vernier caliper
601	1	Hacksaw frame
DRD.MD250EM	1	Half-round second-cut file 250 mm
RD.MD200EM	1	Round second-cut file 200 mm
249	3	Drift punches 3, 4 and 6 mm
263.20	1	Chisel
200H.32	1	Riveting hammer 32 mm
374A.20	1	Double-action oil can
378A	1	Lever-operated grease gun

	Qty	Description
194.17VE	1	1,000 V insulated wire stripper
276	1	Contact file
449.Z3A	1	Terminal crimping set
783A	1	Lug and post cleaner
784B	1	Acid hydrometer
405.10MT	1	Heavy-duty diagonal cutters
AEF.J1	5	Case set of Micro-Tech® screwdrivers
840.1	1	Electricians knife with wire stripper
827.1	1	Magnetic retriever
834.R2	1	Articulated mirror
237.A	1	Thread restoring tool

Set CM.MAN with 4-drawer roller chest JET.CR4GXL

CR4.MAN

⚖ : 90.7 kg.



Motor mechanics tool sets

84-piece service station set

CM.S1

• Supplied loose, as below.
⚖ : 20,3 kg.

⇉	Qty	Description
440	10	Combination wrenches 13 - 14 - 17 - 19 - 21 to 25 - 32 mm
113A	2	Adjustable wrenches 6" and 10"
S.151	1	Ratchet ☐ 1/2"
S.215	1	Extension ☐ 1/2" : 250 mm
S	7	"Standard" sockets ☐ 1/2" 13 - 17 - 22 - 24 - 30 - 32 - 34 mm
AN	2	Screwdrivers for slotted heads 3.5x100 - 5.5x100 mm
ANF	2	Screwdrivers for slotted heads 6.5x100 - 8x200 mm
AND	4	Screwdrivers for Pozidriv® heads no. 1 to 4
ANX	3	Screwdrivers for Torx® heads no. 20, 25 and 27
AGT.8X100	1	Tee handle screwdriver
83H	3	Hexagonal keys 8, 10 and 17 mm
89	3	Torx® keys T8, T10, T15
181.25CPE	1	Lockable multigrip pliers
187.16CPE	1	Sheathed combination pliers
500	1	Lock-grip pliers
200H.32	1	Riveting hammer 32 mm
263.15	1	Chisel
373.25	1	Oil can
827B	1	Magnetic retriever
B.J14	2	Sockets ☐ 3/8"for 14 mm spark plugs - 90 and 250 mm
B.J16	2	Sockets ☐ 3/8"for 16 mm spark plugs - 90 and 250 mm

⇉	Qty	Description
B.J16R	2	Hinged wrenches for 16 mm spark plugs - short and long-reach
B.J21R	2	Hinged wrenches for 21 mm spark plugs - short and long-reach
DM.28-9	1	Spark plug lead pliers
D.150	2	Poignées dynamométriques 18 et 24 N.m
J.161	1	Palm control ratchet
DM.20	1	Spark plug fitter
D.105	4	Drain plug bits 8-10-10.5-13.1
D.106-10	1	Drain plug bit
D.107	6	Drain plug bits 8-10-12-13-14-17
D.109-10	1	Drain plug bit
J.210RC	1	Extension
J.240A	1	☐ 1/2"3/8" universal joint
J.153A	1	Long-reach hinged ratchet
D.13A	1	Drain plug wrench
D.151A	1	Self-gripping oil-filter wrench
U.46CL	1	Fast oil-filter wrench
D.155	1	Oil-filter wrench ∅ 76 mm
D.156	1	Oil-filter wrench ∅ 86 mm
D.157	1	Oil-filter wrench ∅ 96 mm
804	1	Feeler gauge, 19 blades
270.A	1	Spark plug brush
276	1	Contact file
D.3-7	1	Power levers
77A.TO	1	Cross brace.

Service station cabinet

2201.MS1

• Set CM.S1 supplied with wall cabinet 2201 fitted internally with perforated panels and 2 drawers.
• Supplied with hook system and storage trays PL.399 and PL.346A

Essential 41-piece tool set with 5-compartment toolbox BT.11A

2143.M

• Basic tool set, ideal for workshops, training and technical colleges.
• 470 x 220 x 215 mm.
⚖ : 10,5 kg.

⇉	Qty	Description
44.JE8T	8	Roll set of open-end wrenches 8 to 24 mm
J.431AP	19	Case set of sockets ☐ 3/8" 7 to 24 mm and accessories
AR	3	Round-blade screwdrivers 3.5x75 - 5.5x100 - 6.5x150 mm
181.25CPE	1	Multigrip pliers
192.16G	1	Diagonal cutters
187.16G	1	Combination pliers

⇉	Qty	Description
188.16G	1	Flat-nose pliers
501	1	Long-nose lock-grip pliers
200.F30	1	Riveting hammer 30 mm
249	2	Drift punches 2 and 4 mm
263.18	1	Chisel
B.J16A1	1	Short-reach socket ☐ 3/8" for16 mm plugs
B.J21A1	1	Short-reach socket ☐ 3/8" for 21 mm plugs

69-piece metric tool set

CM.A1

• Supplied loose.
⚖ : 9 kg.

⇉	Qty	Description
440.JE11	11	Combination wrenches 7 to 19 mm
440	2	Combination wrenches 22 to 24 mm
AN		Screwdrivers for slotted heads 3.5x100 - 5.5x100 mm
ANF	2	Screwdrivers for slotted heads 6.5x1500 - 8x200 mm
ANP	2	Screwdrivers for Phillips® heads no. 1 and 2
AND	2	Insulated screwdrivers for Pozidriv® heads no. 1 and 2
AV.BT1	1	Voltage tester screwdriver 6 to 24 V
181.25CPE	1	Lockable multigrip pliers
192.16G	1	Diagonal cutters
187.18G	1	Combination pliers
185.20G	1	Half-round nose pliers

⇉	Qty	Description
475A.20	1	Reversible circlip pliers
507A	1	Compact lock-grip pliers
840.1	1	Electricians knife with wire stripper
205H.50	1	Hammer
208A.32AB	1	Plastic-tip mallet
248	3	Long drift punches 2 - 4 - 6 mm
256.6	1	Precision centre punch
263.18	1	Chisel
449I	1	Crimping pliers
827.1	1	Magnetic retriever
U.46CL	1	Fast oil-filter wrench
804	1	Feeler gauge, 19 blades
270.A	1	Spark plug brush
J.430AP	1	Socket set 8 to 22 mm

Motor mechanics tool sets

126-piece metric tool set

CM.A2

• Supplied loose, as below.

⚖ : 16,8 kg.

	Qty	Description
440.JE16T	16	Roll set of combination wrenches 8 to 24 mm
39.JE16T	16	Roll set of combination wrenches 3.2 to 17 mm
43.8X10	1	Flare-nut wrench
113A.8C	1	Adjustable wrench
S.420B	15	Case set of sockets ☐ 1/2", 10 to 24 mm and accessories
R.410D	15	"Radio" sockets 5.5 to 14 mm and accessories
AN	2	Screwdrivers for slotted heads 3.5x100 - 5.5x100 mm
ANF	2	Screwdrivers for slotted heads 6.5x150 - 8x200 mm
AN5,5X35	1	Stubby screwdriver for slotted heads
ANP	2	Screwdrivers for Phillips® heads no. 1 and 2
AND	2	Screwdrivers for Pozidriv® heads no. 1 and 2
ANP1X35	1	Stubby screwdriver PH 1
APZ.B	1	Offset screwdriver for Phillips® heads no. 1 and 2
AV.BT1	1	Voltage-tester screwdriver for very low voltage 6-24 V
82H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
181.25CPE	1	Lockable multigrip pliers
192.16CPE	1	"Piano wire" diagonal cutters
187.20CPE	1	Combination pliers
185.20CPE	1	Sheathed straight half-round nose pliers
475A.J1	2	Reversible circlip pliers
501	1	Long-nose lock-grip pliers
507A	1	Compact lock-grip pliers

	Qty	Description
DRD.MD200EM	1	Half-round second-cut file 200 mm
270.A	1	Spark plug brush
803.300M	1	Flexible stainless 2-sided rule
234	1	Scriber
805.1	1	Vernier caliper
603E	1	Hacksaw frame
231	1	Three-square scraper
840.1	1	Electricians knife with wire stripper
200H.32	1	Riveting hammer 32 mm
208A.32AB	1	Plastic-tip mallet
249	2	Drift punches 2 and 4 mm
247	2	Nail sets 2 and 4 mm
256.6	1	Precision centre punch
263.15	1	Chisel
Y.105B	1	Riveter
U.301	1	Outside puller Ø 80 mm
285.JS5	5	Stud extractors
449I	1	Crimping pliers
834.R2	1	Articulated mirror
827.1	1	Magnetic retriever
U.46CL	1	Fast oil-filter wrench
NS.17X19	1	Double ended impact socket
804	1	Feeler gauge, 19 blades
777A.230	1	Inspection lamp
D.3-7	1	Power levers
DM.34	1	Hose clamps
D.169	1	Set of adaptors

Drivers sets
See section 18. 712

HGV mechanics tool sets

159-piece tool set with storage trays

CM.159

- Set of 13 modules (5 drawers).
- Compatible with Chrono Jet units.
- Details as below.

.⚖ 19,27 Kg.

⇉	Qté	Désignation
R	17	☑ 1/4" square drive 12-point sockets 5.5 to 14 mm, palm-control ratchet and accessories
83H	10	Long-reach hexagonal keys 2 to 10 mm
ED	2	Bits for Pozidriv® heads 101 - 102
EH	4	Male bits 103 - 104 - 105 - 106
ES	3	Bits for slotted heads 134.5 - 136.5 and 148
S	21	☑ 1/2" square drive 12-point sockets 10 to 32 mm, palm-control ratchet and accessories
181.25CPE	1	Lockable multigrip pliers
501	1	Long-nose lock-grip pliers
185.20CPE	1	Half-round nose pliers
192.16CPE	1	Cutters
187.18CPE	1	Sheathed combination pliers
440	20	Combination wrenches 6 to 24 and 27 to 32 mm
AN3.5x75	1	Protwist® screwdriver for slotted heads 3.5 mm
AW	4	Hexagonal blade Protwist® screwdrivers for slotted heads 4X100 - 5.5X150 - 6.5X150 and 10X200
AWP	3	Hexagonal blade Protwist® screwdrivers for Phillips® heads no. 1-2-3
AND0x75	1	Protwist® for Pozidriv® head PZ0
AWD	2	Hexagonal blade Protwist® screwdrivers for Pozidriv® heads no. 1-2
ANXR	7	ProtwistJ Resistorx® screwdrivers 10 to 40 mm
AN	2	Stubby Protwist® screwdrivers for slotted heads 4 and 5.5
ANP	2	Stubby Ergotwist® screwdrivers for Phillips® heads no. 1 and 2
205H.50	1	DIN engineers hammer (German standard)
208A.32CB	1	Heavyweight mallet
263.18	1	Chisel
256.6	1	Precision centre punch
248	3	Long drift punches 4 - 5 - 6 mm
601	1	Hacksaw frame
660A.10	10	Bimetal hacksaw blades
1712	1	Locking tape measure 2 m
234.S	1	Scriber
803.300M	1	Flexible stainless 2-sided rule
PAM.B300EM	1	Flat bastard file, 300 mm
DRD.MD250EM	1	Half-round second-cut file 250 mm
RD.MD200EM	1	Round second-cut file 200 mm
CAR.MD200EM	1	Square second-cut file 200 mm
TRI.MD200EM	1	Triangular second-cut file 200 mm
177E.18	1	Straight-nose outside-circlip pliers
179E.18	1	Straight-nose inside-circlip pliers
197E.18	1	90°-nose outside-circlip pliers
199E.18	1	90°-nose inside-circlip pliers
59TX	4	Torx® ring wrenches 6 to 24 mm
JTX	5	Torx® ☑ 3/8" sockets 8 to 16 mm
STX	2	Torx® ☑ 1/2" sockets 18 and 20 mm
R, J et S	3	Accessories
EXR	6	Resistorx® ☑ 1/4" bits 110 to 140
EX	4	Torx® bits 240 to 255
PL	13	Storage trays (314 - 321 - 323 - 325 - 326 - 327 - 330 - 332 - 333 - 335 - 348A - 360 - 627)

For HGV specific tools,see section18 p. 827

HGV mechanics tool sets

105-piece tool set with storage trays

CM.105

- Set of 9 modules (3 drawers), details as below.
- Compatible with Chrono Jet units.⚖ : 13.57 kg.

⇉	Qty	Description
R	17	☑ 1/4" square drive 12-point sockets 5.5 to 14 mm, palm-control ratchet and accessories
83H	10	Long-reach hexagonal keys 2 to 10 mm
ED	2	Bits for Pozidriv® heads 101 - 102
EH	4	Male bits 103 - 104 - 105 - 106
ES	3	Bits for slotted heads 134.5 - 136.5 and 148
S	21	☑ 1/2" square drive 12-point sockets 10 to 32 mm, palm-control ratchet and accessories
181.25CPE	1	Lockable multigrip pliers
501	1	Long-nose lock-grip pliers
185.20CPE	1	Half-round nose pliers
192.16CPE	1	Cutters
187.18CPE	1	Sheathed combination pliers
440	20	Combination wrenches to 6 à 24 and 27 to 32 mm
AW	4	Hexagonal blade Protwist® screwdrivers for slotted heads 4X100 - 5.5X100 - 6.5X150 - 10X200
ANP0x75	1	Screwdriver PH 0
AWP	3	Hexagonal blade Protwist® screwdrivers for Phillips® heads no. 0 - 1 - 2 - 3
ANXR	4	Protwist® Resistorx® screwdrivers 10 to 30
AN	2	Stubby Protwist® for slotted heads 4 and 5.5
ANP	2	Stubby Protwist® screwdrivers for Phillips® heads no. 1 and 2
205H.50	1	DIN engineers hammer (German standard)
208A.32CB	1	Heavyweight mallet
263.18	1	Chisel
256.6	1	Precision centre punch
248	3	Long drift punches 4 - 5 - 6 mm
PL	9	Storage trays (321 - 323 - 330 - 627 - 670 - 671- 325 - 326 - 333)

Heavy mechanical workshop furniture

The volume, strength, load capacity and manoeuvrability of this range make it ideal for workshops servicing :

- **Heavy goods vehicles**
- **Civil Engineering plant**
- **Farming machinery**
- **Industrial equipment**

JET.T6XL

JET.TS7XL

JET.CR4GXL

For details of these products, see "workstations and storage"... 62

Compatible with the FA-COM modular storage system

Plant and equipment maintenance set

Farming equipment sets

29-piece metric tool set with 3-tray box BT.9

2145.MAG1

• 470 x 220 x 170 mm.

⚖ : 12,2 kg.

⇉	Qty	Description
44.JE8	8	Open-end wrenches 8 to 24 mm
75.JN8	8	Open-socket wrenches 8 to 24 mm
113A.6C	1	Adjustable wrench
113A.12C	1	Adjustable wrench 12"
AN	3	Round blade screwdrivers 3.5x75 - 6.5x150 and 8x200 mm
181.25CPE	1	Lockable multigrip pliers
192.20G	1	Diagonal cutters
187.20G	1	Combination pliers
893.316	1	Tape measure 3 m
603E	1	Hacksaw frame
200H.42	1	Riveting hammer 42 mm
263.18	1	Chisel
374A.20	1	Double-action oil can

54-piece metric tool set

CM.AG4

• Supplied loose, as below.

⚖ : 13,4 kg.

⇉	Qty	Description
440.JE9	9	Set of combination wrenches 8 to 19 mm
113A.6C	1	Adjustable wrench
113A.15C	1	Adjustable wrench
S.429EP	18	"Standard" sockets and accessories 10 to 32 mm (in a case)
AN4X100	1	Round-blade screwdriver
AWH	2	Hexagonal-blade screwdriver 6.5x150 - 8x175 mm
ANP	2	Screwdrivers for Phillips® heads no. 1 - 2
AND	2	Screwdrivers for Pozidriv® heads no. 1 - 2
82H	5	Set of hexagonal keys 4 - 5 - 6 - 8 - 10 mm
181.25CPE	1	Lockable multigrip pliers
187.16G	1	Combination pliers

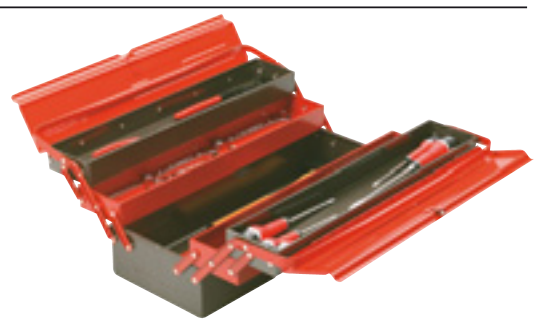
⇉	Qty	Description
495.22EL	1	Heavy-duty end nippers
500	1	Lock-grip pliers
603E	1	Hacksaw frame
840.2	1	Knife
200H.40	1	Riveting hammer 40 mm
249	2	Drift punches 4 and 6 mm
263.20	1	Chisel
269	1	Crowbar
131A.18	1	"Stillson" pipework wrench 60 mm, 2"
DRD.MD200EM	1	Half-round second-cut file 200 mm

Set CM.AG4 with 5-compartment toolbox BT.13A

2146.MAG4

• 550 x 220 x 215 mm.

⚖ : 18,9 kg.



Plant and equipment maintenance sets

150-piece metric and inch tool set with chest BT.66

2174.MAG5

- 670 x 415 x 361 mm.

⚖ : 77,4 kg.

⇉	Qty	Description
440.JE24	24	Combination wrenches 6 to 32 mm
75.JE16	16	Open-socket wrenches 8 to 32 mm
75	4	Socket wrenches 26 - 27 and 30 - 32 mm
113A.6C	1	Adjustable wrench
113A.15C	1	Adjustable wrench
S.151	1	Ratchet ☐ 1/2"
S.110	1	Speed brace
S.120A	1	Sliding tee
S.240A	1	Universal joint
S.210 - S.215	2	Extension
S	22	"Standard" sockets 8 to 19, 21 to 24, 26 to 30 and 32 mm
K.151B	1	Reversible ratchet. ☐ 3/4"
K.210B - K.215B	2	Extension
K.120B	1	Sliding tee
K	12	"Truck" socket set 30 - 32 - 33 - 34 - 36 - 38 - 41 - 42 - 46 - 50 - 54 - 55 mm
AN	2	Screwdrivers for slotted heads 3.5x75 and 4x100 mm
AWH	5	Hexagonal blade screwdrivers 5.5x125 - 6.5x150 - 8Ex175 - 10x175 and 12x250 mm
AND	3	Screwdrivers for Pozidriv® heads no. 1 - 2 - 3
83H.JP9	9	Sleeve set of hexagonal keys : 1.5 to 10 mm
181.25CPE	1	Locking twin slip-joint multigrip pliers
183.30G	1	Lockable multigrip pliers
192.16CPE	1	Sheathed "piano wire" diagonal cutters
187.16CPE	1	Sheathed combination pliers

⇉	Qty	Description
495.22EL	1	Heavy-duty end nippers
475A.J1	2	Reversible circlip pliers
501	1	Long-nose lock-grip pliers
893.316	1	Locking tape measure 3 m
234	1	Scriber
805.1	1	Vernier caliper
603E	1	Hacksaw frame
660A.10	10	Bimetal hacksaw blades
990.B0	1	"Compact" bolt cropper
882A	1	Scroll shears
844.D	1	Knife
PAM.MD200	1	Flat second-cut file 200 mm
RD.MD200	1	Round second-cut file 200 mm
RAB.DRDMD250	1	Half-round second-cut rasp 250 mm
TRO.5,6EM	1	Round file for chainsaw
200H	2	Riveting hammers 32 and 50 mm
249.JT7	7	Wallet set of drift punches 2 to 10 mm
247	6	Nail sets 2 to 6 and 8 mm with wallet N.38A-6C
262A.20	1	Chisel
269	1	Crowbar
121A.1'	1	Pipe wrench
Y.RIV1	1	Riveting kit
449I	1	Crimping pliers
701A	1	Multifunction tester
U.46PL	1	Large-capacity oil-filter wrench

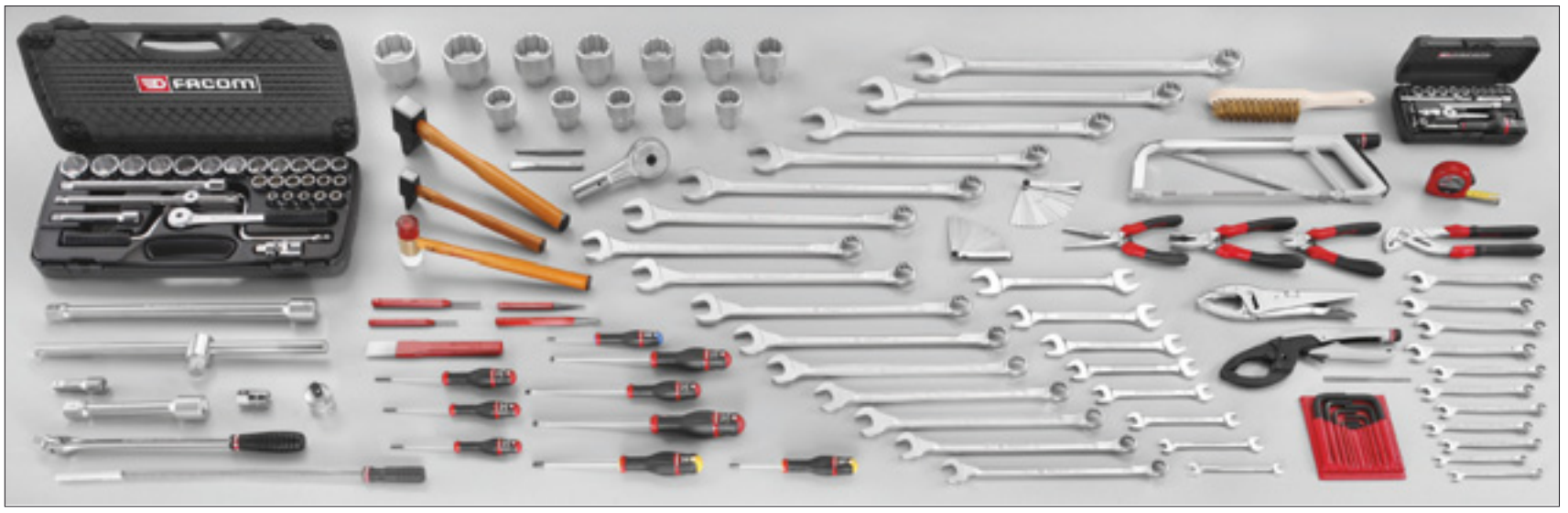
Construction plant sets

151-piece metric tool set

CM.V9

• Supplied loose, as below.

⚖ : 40,9 kg.



	Qty	Description
440.40LAJE26	26	Standard 8 - 18 and long 19 to 38 mm combination wrenches
44.JE8	8	Open-end wrenches 8 to 24 mm
R.425A	26	"Radio" socket set 5.5 to 14 mm, with screwdriver bits and accessories
S.141A	1	Long hinged handle ☐ 1/2"
S.208	1	Extension ☐ 1/2"
S.232B	1	Extension ☐ 1/2", ☐ 3/4"
S.440E	28	"Standard" sockets 8 to 32 mm and accessories with storage tray
K.230B	1	Coupler ☐ 3/4", ☐1/2"
K.151B	1	Reversible ratchet. ☐ 3/4"
K.120B	1	Sliding tee
K.210B - K.215B	2	Extensions
K	12	"Truck" socket set 30 - 32 - 33 - 34 - 36 - 38 - 41 - 42 - 46 - 50 - 54 - 55 mm
AN	2	Round-blade screwdrivers 3.5x75 and 4x100 mm
ANF	3	Forged-blade screwdrivers 5.5x150 - 6.5x150 and 8x200 mm
ANP	2	Screwdrivers for Phillips® heads no. 1 - 2
AND	2	Screwdrivers for Pozidriv® heads no. 1 - 2
82.JL10	10	Wallet set of hexagonal keys 2 to 10 mm

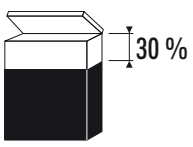
	Qty	Description
181.25CPE	1	Lockable multigrip pliers
192.16CPE	1	"Piano wire" diagonal cutters
187.20CPE	1	Combination pliers
188.20CPE	1	Sheathed flat-nose pliers
501	1	Long-nose lock-grip pliers
T5.L100	1	Large-capacity lock-grip pliers
893.316	1	Locking tape measure 3 m
804	1	Feeler gauge, 19 blades
804.P	1	Feeler gauges to 1/100 mm
603E	1	Hacksaw frame
660A.10	10	Bimetal hacksaw blades
200H	2	Riveting hammers 28 and 40 mm
208A.32CB	1	Plastic-tip mallet
249	2	Drift punches 4 and 6 mm
247	2	Nail sets 4 and 6 mm
256.6	1	Precision centre punch
263.20	1	Chisel
252.10	1	Precision chisel
827B	1	Magnetic retriever
276	1	Contact file
270A.MA	1	Wire brush.

Set CM.V9 with site chest BT.28

2068.MV9

• 615 x 398 x 392 mm.

⚖ : 91,9 kg.



145-piece inch tool set for Caterpillar plant

CU.V12

• Supplied loose, as below.

⚖ : 44,3 kg.

⇉	Qty	Description
440.JU17T	17	Roll set of combination wrenches 1/4" to 1 1/4".
40.LA	3	Long combination wrenches 1 1/8", 1 5/16" and 1 3/8"
44	7	Open-end wrenches : 3/8x7/16 - 1/2x9/16 - 5/8x11/16 - 3/4x13/16 à 1 1/8"x1 1/4"
34	4	Open-end wrenches 3/8", 7/16", 1/2", 9/16"
55.JU10	10	Offset ring wrenches 1/4" to 1 1/4"
113A.8C	1	Adjustable wrench
S.145	1	Long hinged handle ☐ 1/2"
S.232B	1	Extension ☐ 1/2", ☐ 3/4"
S.440AUP	24	Socket set ☐ 1/2" : 3/8" to 1 1/4" and accessories (in a case)
K.140A	1	Hinged handle
K.230B	1	Coupler ☐ 3/4", ☐1/2"
K.151B	1	Reversible ratchet. ☐ 3/4"
K.210B - K.215B	2	Extensions
K.120B	1	Sliding tee
K	11	"Truck" socket set 1 1/4" - 1 5/16" - 1 7/16" - 1 1/2" - 1 5/8" - 1 11/16" - 1 13/16" to 2" - 2 3/16" - 2 1/4"
K.125A	1	Tommy bar
AWH	2	Power screwdrivers for slotted heads 6.5x150 and 8x175 mm
AN	3	Round blade Protwist® screwdrivers 4x100 - 5.5x150 - 6.5x150 mm
ANP	5	Screwdrivers for Phillips® heads no. 0 to 4
82H.JU13	13	Wallet set of hexagonal keys 3/32" to 3/4"
181.25CPE	1	Lockable multigrip pliers
192.16CPE	1	"Piano wire" diagonal cutters

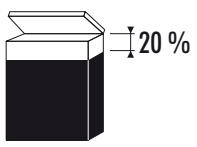
⇉	Qty	Description
187.18CPE	1	Sheathed combination pliers
189.17CPE	1	Sheathed round-nose pliers
188.16CPE	1	Sheathed flat-nose pliers
500	1	Lock-grip pliers
893.316	1	Locking tape measure 3 m
804	1	Feeler gauge, 19 blades
816	1	Vernier caliper to 1/20 mm
603E	1	Hacksaw frame
660A.10	10	Bimetal hacksaw blades
237.C	1	Thread restoring tool
882A	1	Scroll shears
840B	1	Electricians knife
RD.MD200EM	1	Round second-cut file 200 mm
PAM.MD200EM	1	Flat hand file
DRD.MD200EM	1	Half-round second-cut file 200 mm
TRI.MD200EM	1	Triangular second-cut file 200 mm
200H.40	1	Riveting hammer 40 mm
202H.1/4	1	Engineers hammer
208A.32AB	1	Plastic-tip mallet
248.JT7	7	Long drift punches 2 to 6 - 8 - 10 mm
256.8	1	Centre punch
263.20	1	Chisel
265.20	1	Constant-profile cape chisel
254A.10	1	Precision cape chisel
827B	1	Magnetic retriever
270.A	1	Spark plug brush
270A.MA	1	Wire brush.
276	1	Contact file

Set CU.V12 with site chest BT.28

2068.UV12

• 615 x 398 x 392 mm.

⚖ : 95,3 kg.



Drivers tool kit

2013.M

• 13-piece metric tool set in a soft roll bag (N.38A- 10C).
⚖ : 2 kg

⇉	Qty	Description
44	4	Roll set of open-end wrenches 8X9 - 10X11 - 12X13 - 17X19 mm
AM.D	1	Blade handle
AMZ	4	Reversible blades for Torx® heads 10x15 - 20x25, slotted heads 4x6.5 mm and Pozidriv® heads 1x2
181.25CPE	1	Lockable multigrip pliers
192.18CPE	1	Sheathed diagonal cutters
113A.10C	1	Adjustable wrench 10"
DF.3	1	Wire brush.

"Touring" kit

2024.M

• 24-piece metric tool set in a soft case 450 x 353 x 80 mm (BV.16).
⚖ : 4.8 kg.

⇉	Qty	Description
44	7	Open-end wrenches : 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 mm
AM.D	1	Blade handle
AMZ	5	Reversible blades for Torx® 10x15 - 20x25 - 30x40, Slotted heads 4x6.5 and Pozidriv® heads 1x2
181.25CPE	1	Lockable multigrip pliers
192.18CPE	1	Sheathed diagonal cutters
113A.10C	1	Adjustable wrench 10"
500	1	Lock-grip pliers
200H.30	1	Riveting hammer 30 mm
252.10	1	Precision chisel
249.4	1	Drift punch 4 mm
DF.3	1	Wire brush.
L.16AM	1	Box wrench for spark plugs
804	1	Feeler gauge, 19 blades
D.3-7	1	Power levers

"Overland" kit

2049.M

• 49-piece metric tool set in a soft dual-access case (BS.12)
• 420 x 300 x 110 mm.
⚖ : 8.5 kg.

⇉	Qty	Description
44	9	Open-end wrenches 6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x21 - 22x24 mm
AM.D	1	Blade handle
AMZ	9	Reversible blades for Torx® heads 10x15 - 20x25 - 30x40, Slotted heads 4x6.5, Pozidriv® heads 1x2, Phillips® heads 1X2, Hexagonal 4-5-6
181.25CPE	1	Lockable multigrip pliers
185.20CPE	1	Sheathed straight half-round nose pliers
192.18CPE	1	Sheathed diagonal cutters
500	1	Lock-grip pliers
113A.10C	1	Adjustable wrench 10"

⇉	Qty	Description
200H.30	1	Riveting hammer 30 mm
252.10	1	Precision chisel
249.4	1	Drift punch 4 mm
J.161	1	Palm control ratchet ☐ 3/8"
J	4	3/8" socket accessories : 2 extensions, universal joint, sliding tee
J.H	13	Rack socket set ☐ 3/8" : 8 to 19 and 21 mm
L.16AM	1	Box wrench for spark plugs
804	1	Feeler gauge, 19 blades
D.3-7	1	Power levers
DF.3	1	Wire brush.

FACOM

2. Roller cabinets and workshop furniture

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Facom modular storage system 84

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Maintenance workbenches 90

Worktop cabinets and wall storage units 92

Drawer units and large capacity cabinets 98

NEW

Wall cabinets

Maximum visibility and accessibility

Advantages

- Compact, optimised storage
- Modular
- Central locking

N 93

NEW

Facom “Control System”

Instant identification

Advantages

- Immediate identification of missing tools
- High density foam
- Easy grip

N 87

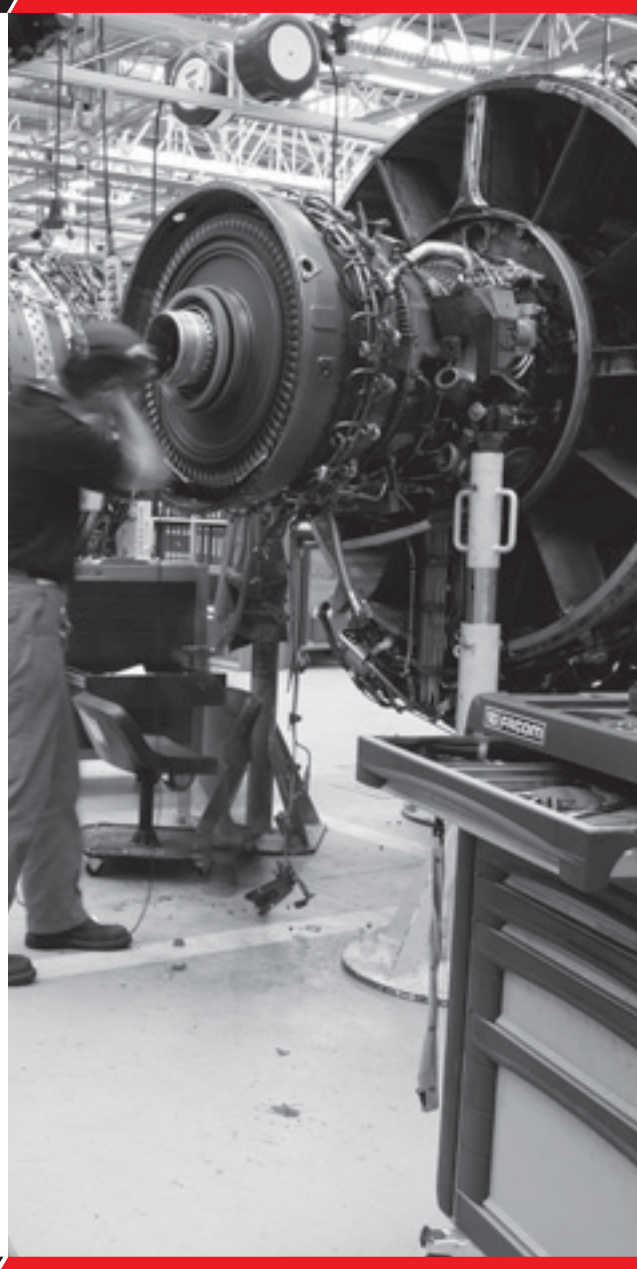
NEW

Triple security

Advantages

- Anti-tilt system.
- Selective drawer opening:
- Central locking

N 71



NEW

High specification and safety

Advantages

- Heavy-duty worktop
- High performance drawer slides
- Selective drawer opening

N 74

Roller cabinets and chests

WORKSHOP STORAGE

A COMPREHENSIVE RANGE - FROM THE ROLLER CABINET TO THE WORK BENCH

Facom has a close relationship with end users. This, combined with overall control of the manufacturing processes ensures the highest product quality and performance.

Quality and durability

- *High performance drawer slides.*
- *Endurance tested.*
- *Chemical and mechanical resistance tested.*
- *Automated manufacturing process for accuracy and consistency.*

Safety

- *Facom considers the safety of operators and their working environment from the very earliest stages of design.*
  e.g. : Ankle protection, polymer bumpers.

Productivity

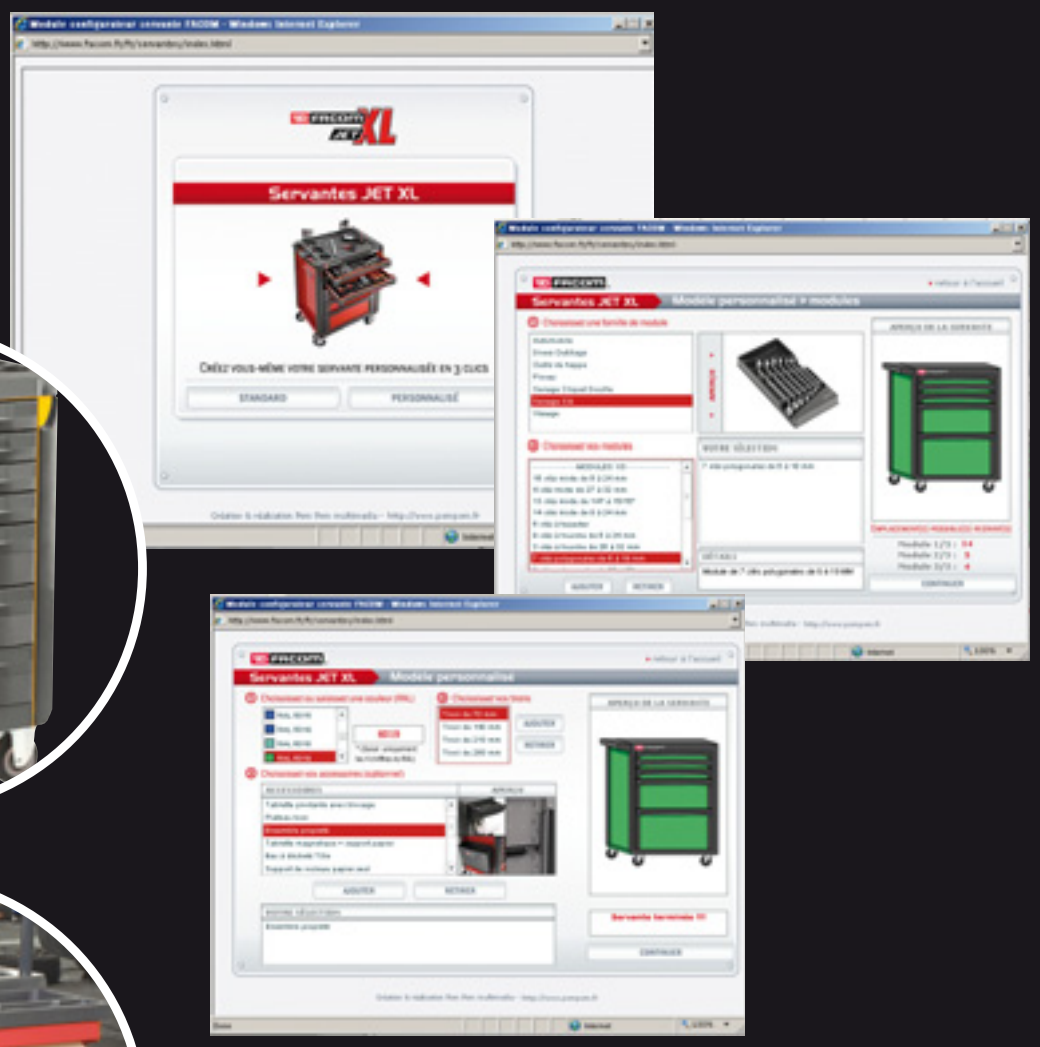
- *Facom's Global Organisation Concept combines the workstation and tool storage for a more ergonomic design and easier tool access.*
- *Il allows instant identification of missing tools.*

Roller cabinets

DESIGN YOUR WORKSTATION

ROLLER CABINET CONFIGURATION TOOL ON WWW.FACOM.COM !

Quickly and easily create your roller cabinet in a few clicks of a mouse.



CHOOSE :

- *THE DRAWER COMBINATION*
- *THE COLOUR*
- *THE ACCESSORIES*
- *THE TOOL STORAGE MODULES*

See our range of roller chests on p. 62

Standard roller cabinets

JET.XL

HIGH PERFORMANCE ROLLER CABINETS

FEATURES

Multi-functional worktop :

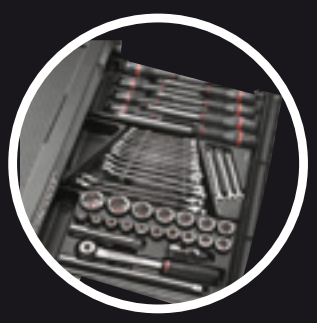
- *Integral bi-material handle.*
- *Storage compartments for screws, nuts, bolts, etc.*
- *Retaining lip.*
- *Can receive a vice.*
- *Storage locations provided for 6 screwdrivers.*

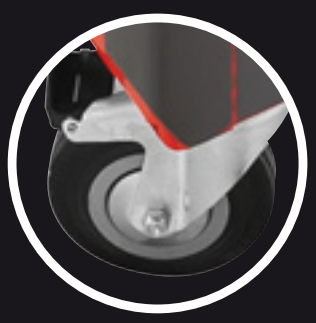
Selective drawer opening system :

- *Smooth opening, easy to operate, simply by lifting the handle.*
- *Fully opening drawers.*
- *Removable drawer partitions secured by means of rubber studs for complete freedom of arrangement.*
- *Roller cabinet comes with a set of tags for easy identification of drawer contents.*

Strength :

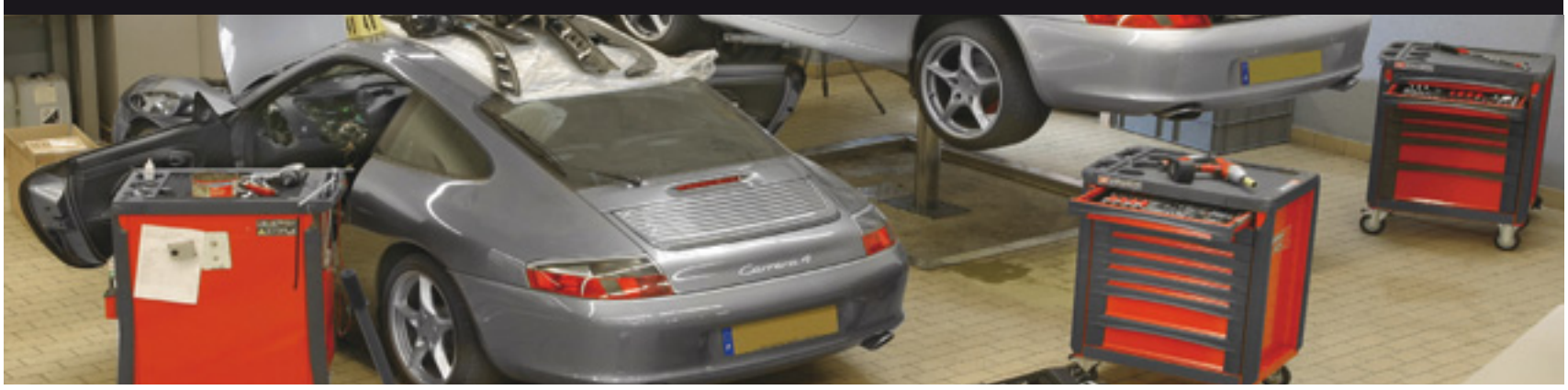
- *Worktop designed for a static distributed load of 900 kg.*
- *High performance drawer slides.*





SAFETY

- *Bumpers on all 4 corners.*
- *Front of drawers made of composite materials acting as additional bumpers.*
- *Solid, rounded base providing ankle protection.*
- *Large diameter wheels (125 mm) for easier manoeuvrability and a reduced risk of overturning.*
- *Centralised folding-key locking system.*



Roller cabinets and chests

JET.XL five-drawer roller cabinet

- Drawer sizes : 2x60 + 2x130 + 1x270 mm.
- Overall dimensions (including wheels and worktop) : L.780xD.520xH.970 mm.
- Effective drawer dimensions : L.569xD.421xH.60/130/270 mm.
- Drawer capacity : 20/25/30 kg.
- 4 wheels ∅ 125 mm : 2 fixed, 2 castors, one with brake.

	Colour	⚖ kg
JET.5XL	Red 3020	74
JET.5GXL	Grey 9006	74

JET.XL six-drawer roller cabinet

- Drawer sizes : 4x60 + 1x130 + 1x270 mm.
- Overall dimensions (including wheels and worktop) : L.780xD.520xH.970 mm.
- Effective drawer dimensions : L.569xD.421xH.60/130/200/270 mm.
- Drawer capacity : 20/25/30 kg.
- 4 wheels ∅ 125 mm : 2 fixed, 2 castors, one with brake.

	Colour	⚖ kg
JET.6XL	Red 3020	74
JET.6GXL	Grey 9006	74

JET.XL seven-drawer roller cabinet

- Drawer sizes : 5x60 + 1x130 + 1x200 mm.
- Overall dimensions (including wheels and worktop) : L.780xD.520xH.970 mm.
- Effective drawer dimensions : L.569xD.421xH.60/130/200 mm.
- Drawer capacity : 20/25/30 kg.
- 4 wheels ∅ 125 mm : 2 fixed, 2 castors, one with brake.

	Colour	⚖ kg
JET.7XL	Red 3020	76
JET.7GXL	Grey 9006	76

JET.XL eight-drawer roller cabinet

- Drawer sizes : 6x60 + 2x130 mm.
- Overall dimensions (including wheels and worktop) : L.780xD.520xH.970 mm.
- Effective drawer dimensions : L.569xD.421xH.60/130 mm.
- Drawer capacity : 20/25 kg.
- 4 wheels ∅ 125 mm : 2 fixed, 2 castors, one with brake.

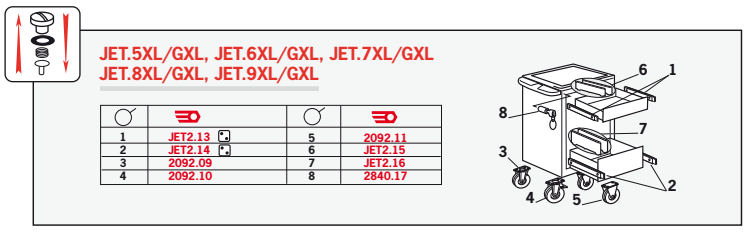
	Colour	⚖ kg
JET.8XL	Red 3020	78
JET.8GXL	Grey 9006	78

Roller cabinets and chests

JET.XL nine-drawer roller cabinet

- Drawer sizes : 8x60 + 1x130 mm.
- Overall dimensions (including wheels and worktop) : L.780xD.520xH.970 mm.
- Effective drawer dimensions : L.569xD.421xH.60/130 mm.
- Drawer capacity : 20/25 kg.
- 4 wheels ∅ 125 mm : 2 fixed, 2 castors, one with brake.

	Colour	kg
JET.9XL	Red 3020	80
JET.9GXL	Grey 9006	80



Additional chests

JET.XL four-drawer chest

- All the advantages of the JET.XL range.
- Drawer sizes :
- 3 drawers 60 mm high.
- 1 drawer 130 mm high.
- Overall dimensions (including worktop) : L.780xD.510xH.470 mm.
- Effective drawer dimensions : L.569xD.421xH.60/130.
- Drawer capacity : 20/25 kg.
- Compatible with the FACOM modular storage system.
- Able to receive removable drawer partitions (not included).
- Stackable on JET.XL roller cabinets (kit not included).

	Colour	kg
JET.C4XL	Red 3020	46
JET.C4GXL	Grey 9006	46

Heavy-duty roller cabinets

Reinforced JET.XL roller cabinets

- 7 drawers (569 x 421 mm) :
- 5 drawers 60 mm high with partitions.
- 1 drawer 130 mm high with partitions.
- 1 drawer 200 mm high.
- Heavy-duty wood and galvanized steel worktop allowing the fitting of a vice.
- Static resistance of structure : 1 tonne.
- Comfortable tubular handle.
- Drawer fronts made of flexible material and anti-shock protection on corners.
- Drawer capacity : 25, 35, 40 kg according to height.
- 100 % opening drawers / compatible with the Facom modular storage system.
- Selective drawer opening system incorporated on each drawer.
- Central key locking.
- Compatible with the JET accessory range.
- Dimensions L.970xD.810xH.515.

	Colour	kg
JET.TS7XL	Red 3020	80
JET.TS7GXL	Grey 9006	80

Safety lock roller cabinets

New

SAFETY LOCK SYSTEM

TRIPLE SECURITY

Inter-locking drawers

• To reduce the risk of overturning, JET.XLS roller cabinets are fitted with the SAFETY LOCK SYSTEM that prevents more than one drawer being opened at a time.

Selective drawer opening

• Simple and efficient. Lift the handle in the front of each drawer to open.

Central drawer locking

• Lock all drawers with the single turn of a key.

JET.XL six-drawer roller cabinet - safety range

JET.6GXL

• Overall dimensions (including wheels and worktop) : L.780xD.520xH.970 mm.
• Effective drawer dimensions : L.569xD.421xH.60/130/270 mm.
• Drawer capacity : 20/25/30 kg.
• 4 wheels ∅ 125 mm : 2 fixed, 2 castors, one with brake.
• 9006 Grey.
⚖ : 74 kg.

JET.XL eight-drawer roller cabinet - safety range

JET.8GXL

• Drawer sizes : 6x60 + 2x130 mm.
• Incorporated safety system preventing more than one drawer being opened at a time, thus preventing any risk of tipping.
• Overall dimensions (including wheels and worktop) : L.780xD.520xH.970 mm.
• Effective drawer dimensions : L.569xD.421xH.60/130 mm.
• Drawer capacity : 20/25 kg.
• 4 wheels ∅ 125 mm : 2 fixed, 2 castors, one with brake.
• 9006 Grey.
⚖ : 78 kg.

Roller cabinets and chests

CHRONO.XL HIGH PERFORMANCE ROLLER CABINETS

Impact and hydrocarbon-resistant worktop

- *Integral handle and retaining lip*

Fully opening drawers

- *Total access, movable partitions.*
- *Drawer capacity : 20/25 kg.*

Safety system

- *Central locking and brake preventing accidental opening of each drawer*

Accessories

- *Can accommodate the majority of JET.XL accessories*

Static resistance : 800 kg distributed weight

Compatible with the FACOM modular storage system

CHRONO.XL six-drawer roller cabinet

CHRONO.6XL

- Drawer sizes : 3x60 + 2x130 + 1x200 mm.
- Dimensions
- Overall dimensions (including wheels and worktop) : L.735xD.510xH.970 mm.
- Effective drawer dimensions : L.569xD.421xH.60/130/200 mm.
- Drawer capacity : 20/20/25 kg
- Colour 3020 Red cabinet and 9006 Grey drawers.
- ⚖ : 69 kg.

CHRONO.XL seven-drawer roller cabinet

CHRONO.7XL

- Drawer sizes : 4x60 + 3x130 mm.
- Dimensions
- Overall dimensions (including wheels and worktop) : L.735xD.510xH.970 mm.
- Effective drawer dimensions : L.569xD.421xH.60/130 mm.
- Drawer capacity : 20/20/25 kg.
- Colour 3020 Red cabinet and 9006 Grey drawers.
- ⚖ : 71 kg.

CHRONO.XL four-drawer chest

CHRONO.C4XL

- Same specification as the CHRONO.XL roller cabinet range.
- Drawer sizes :
- 3 drawers 60 mm high.
- 1 drawer 130 mm high.
- Overall dimensions (including worktop) : 735 x 510 x 480 mm.
- Effective drawer dimensions : L. 569 x D. 421 x H. 60/130.
- Drawer capacity : 20 kg.
- Compatible with the FACOM modular storage system.
- Able to receive removable drawer partitions (not included).
- Stackable on CHRONO.XL. roller cabinets with connection kit CHRONO.C4K1 (not included).
- Converts to a roller chest with wheel kit CHRONO.C4K2 (not included).
- Colour : RAL 3020 Red cabinet and 9006 Grey drawers.

⚖ : 41 kg.

Connection kit

CHRONO.C4K1

- For securely attaching the CHRONO.C4XL chest on top of a CHRONO.XL roller cabinet.

⚖ : 1.7 kg.

Wheel kit

CHRONO.C4K2

- For converting chests CHRONO.XL or JET.XL into roller chests.
- Comprising a set of wheels (2 fixed, 2 castors, one with a brake) and a handle.

⚖ : 5.4 kg.

Additional services

For orders of 6 roller cabinets or more, we can paint our boxes to match your companies corporate colours. Simply ask your sales advisor or distributor for more details.

www.facom.com. See details on p. 67

New

JET.XLW MOBILE WORKBENCH

PRACTICAL, STURDY AND COMPACT

Wooden worktop

- *24mm tinted wood worksurface - resistant and easy to maintain.*
- *Suitable for fitting a vice.*

High storage capacity

- *7 drawers with heavy-duty drawer slides.*
- *1 locker for storing bulky items and a plastic carry tray (supplied as standard).*
- *Same key locks both the drawers and the locker door.*

Manoeuvrable

- *Large diameter wheels (160 mm) allows the bench to ride over pipes and door rails, etc.*
- *Special fork slots for safely lifting the bench onto a lorry with a forklift truck when working away from the workshop.*

Accessories

- *Compatible with the JET.XL range of side-mounted accessories.*

JET.XL seven-drawer mobile workbench

• Worktop :
- Very strong, tinted varnished wood 24 mm thick, easy to maintain, suitable for fitting a vice.
• Storage spaces :
- 7 JET.XL drawers with heavy-duty ball-bearing slides : 5 x 60 + 1 x 130 + 1 x 200 mm.
- Drawer capacity : 25/35/40 kg.
- Selective drawer opening.
Central key locking.
- Compatible with FACOM modular storage range.
- 1 large capacity locker for bulky items.
- Door key lock.
- Same key serves for the drawers and the locker.
• 160 mm diameter wheels, 2 fixed, 2 castors, one with brake.
• Supplied with 3 sets of removable partitions for 60 mm drawers and 1 set of partitions for 130 mm drawers.
• Supplied with a plastic carry tray.
• Compatible with the JET.XL range of side-mounted accessories.
• Effective drawer dimensions : 569 x 421 x 60/130/200 mm.

	Colour	Dimensions mm	kg
JET.T7XLW	Red 3020	990 x 515 x 1140	113
JET.T7GXLW	Grey 9006	990 x 515 x 1140	113

JET.XL mobile workbench

Impact and heat-resistant

- Ultra-heavy-duty worktop of galvanized steel on a 24 mm thick wooden base. Impact and heat-resistant.
- Vice-fitting option.

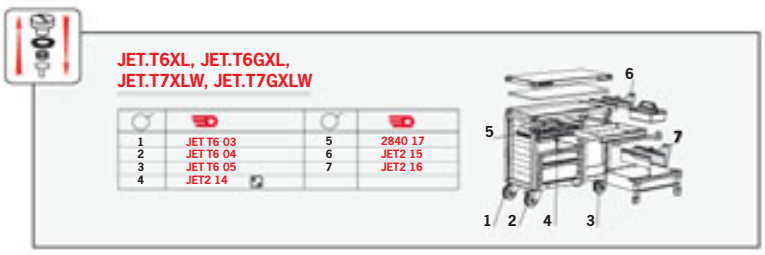
Storage capacity

- 6 drawers with heavy-duty drawer slides
- 1 directly accessible compartment for bulky items.
- Other specifications as JET.XLW.

JET.XL six-drawer mobile workbench

- 100 % opening drawers, compatible with modular storage range / moveable partitions.
- 6 drawers (569 x 421 mm) :
- 3 x 60 + 1 x 130 + 1 x 200 mm.
- Supplied with 3 sets of partitions for small drawers and 1 set of partitions for medium-sized drawers.
- 1 open compartment for storing bulky items and the plastic carry tray.
- Supplied with a plastic carry tray.
- Compatible with the JET range of side-mounted accessories.
- Dimensions L.990 x D.515 mm x H.1,140.

	Colour	kg
JET.T7XLW	Red 3020	117
JET.T7GXLW	Grey 9006	117



JET.XL door kit

- Quickly and easily transforms the open compartment of JET.XL mobile workbenches into a secure locker.
- The kit comprises a sheet steel door and rear panel.
- Attached to the cabinet by means of rivets through pre-drilled holes (rivets supplied).
- The door is fitted with a lock and comes complete with two keys (1 folding).

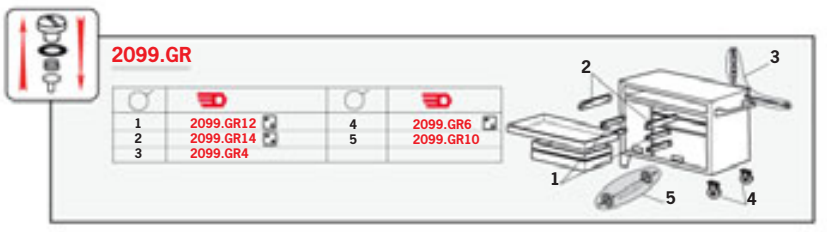
	Colour
JET.T6DOOR	Red 3020
JET.T6GDOOR	Grey 9006

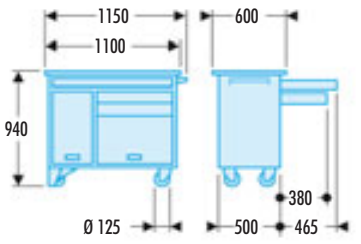
Mobile workbenches

Mobile workbench

2099.GR

• Wide beech-ply worktop.
• "Total-vision" drawer 863 x 445 x 70 mm, including 4 fully movable partitions.
• Full-length compartment for storing long tools.
• 1 drawer 50 mm high (x 534 x 372 mm) with compartments for fasteners.
• 1 drawer 100 mm high (x 534 x 372 mm).
• 2 large storage compartments (one with shelf) concealed by up-and-in doors.
• Wheels. Ø 125 mm, one with brake, with "swarf-riding" tyres.
⚖ : 82 kg.

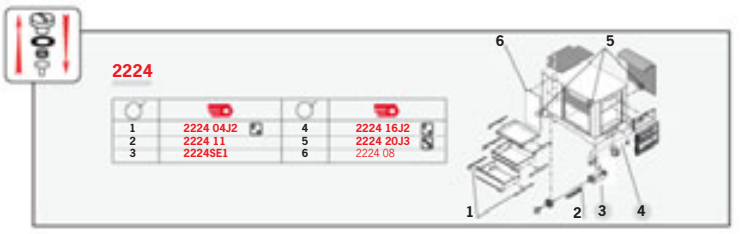




Large volume mobile workbench

2224

• Large, thick and sturdy varnished wooden worktop suitable for fitting a vice.
• Retractable handle, quickly transforming the mobile workbench into an extremely stable workstation.
• Large storage capacity :
- 6 drawers with ball-bearing slides (4 x 70 + 1 x 125 + 1 x 205 mm) and centralised key locking. Compatible with FACOM modules.
- side door concealing two storage compartments for bulky items. Key lockable.
- perforated rear panel (170 mm deep) for hanging even very bulky tools using the Facom CKS hook system. Key-lockable shutter.
- 2 side storage compartments.
• Same key for the drawers, the door and the shutter.
- Shock-resistant cabinet base.
- Very large wheels for easy manoeuvrability.
• Dimensions 1,265 x 755 x 930 mm.
• Tools not included.



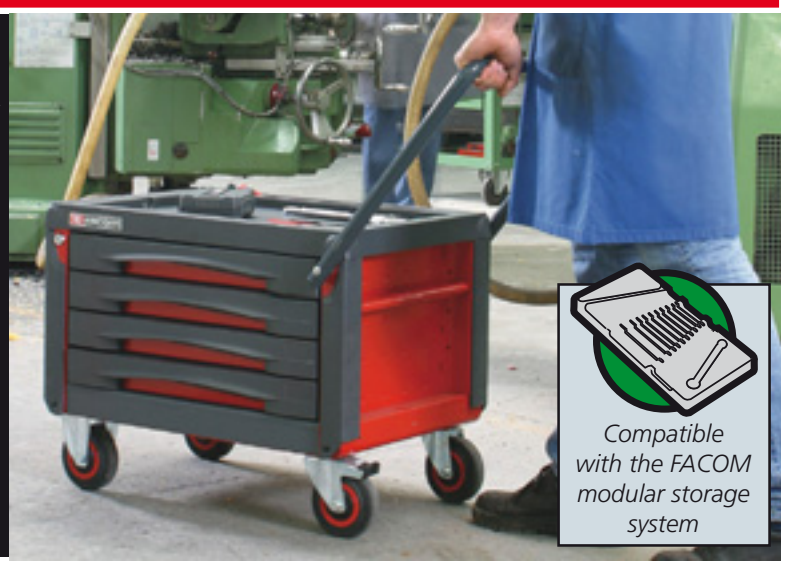
JET.CR4XL MOBILE CHESTS

NOT JUST A CHEST, MORE A MINI ROLLER CABINET

Easy to manoeuvre around the workshop.

Carry all your tools to outside jobs.

Can be combined with a fixed chest for maximum storage capacity.



JET.XL four-drawer mobile chest

- All the advantages of the JETXL range.
- Folding pulling handle.
- 4 wheels ∅ 125 mm : 2 fixed, 2 castors, one with brake.
- Able to receive removable drawer partitions (not included).

Compatible with the FACOM modular storage system.

- Able to support a JET.C4XL fixed chest.
- 4 drawers : 3x60 + 1x130.
- Overall dimensions (including wheels and worktop) :

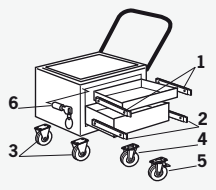
780 x 510 x 620 mm.

- Effective drawer dimensions : L.569xD.421xH.60/130.
- Drawer capacity : 20/25 kg.

	Colour	⚖ kg
JET.CR4XL	Red 3020	51
JET.CR4GXL	Grey 9006	51

JET.CR4XL, JET.CR4GXL

1	JET2.13	4	2092.09
2	JET2.14	5	2092.10
3	2092.11	6	2840.17

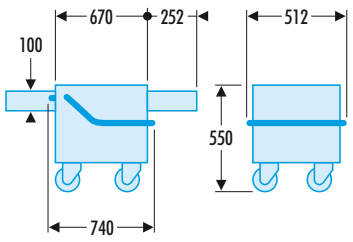


Roller chest

2092A

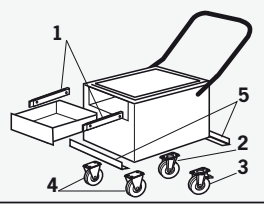
- A particularly good compromise between size and effective volume.
- Can be transported in a vehicle.
- Wheels ∅ 125 mm for effortlessly covering long distances.
- 2 drawers 100 mm high (x 360 x 300 mm).
- Each drawer includes a removable tray 360 x 148 x 40 mm, for storing small tools.
- Two compartments 440 x 140 x 60 mm.
- Documents or flat items can be stored inside the lid.
- Can be padlocked (padlock not included).
- Rubber ankle protection.

⚖ : 28.5 kg.



2092A

1	2092.24	4	2092.11
2	2092.09	5	2092A.15
3	2092.10		



Workstations

"Maximum volume" workstation

JET.CS11XL

• Comprising a JET.XL 7-drawer roller cabinet and a JET.XL 4-drawer chest.
• Drawer size : 569 x 421 mm.
• Roller cabinet specification as JET.7GXL.
• Chest specification as JET.C4GXL.

	Dimensions mm	kg
JET.CS11XL	1380 x 780 x 520	121,5

"Industrial maintenance" workstation

JET.7MIXL

• Comprising :
- 1 JET.XL seven-drawer roller cabinet.
- 1 Paper roll holder (JET.A5-3GXL).
- 1 Waste bin. (JET.A5-2XL).
- 1 Vertical panel for drawings, procedures or tools (JET.A6GXL).
- 1 Side cupboard for long and/or expensive tools (JET.A8GXL).
- 1 anti-theft bar for increased security (JET.A9XL).

	Dimensions with panel installed mm	kg
JET.7MIXL	1375 x 780 x 520	91

"Electromechanical engineering" workstation

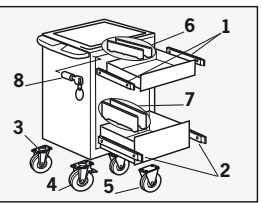
JET.8ELXL

• Comprising :
- 1 JET.XL eight-drawer roller cabinet.
- 1 Nuts and screws stand (JET.A7GXL).
- 1st drawer fitted with 3 trays for fasteners and small components (PL.384) and a small parts tray (PL.636).
- 1 Document holder (JET.A2GXL).
- 1 Compartmented magnetic shelf and 1 paper roll holder (JET. A5-1GXL).
- 1 Waste bin (JET.A5-2XL).

	Dimensions with panel installed mm	kg
JET.8ELXL	1375 x 780 x 520	91

JET.CS11XL, JET.7MIXL, JET.8ELXL

1	JET2.13	5	2092.11
2	JET2.14	6	JET2.15
3	2092.09	7	JET2.16
4	2092.10	8	2840.17



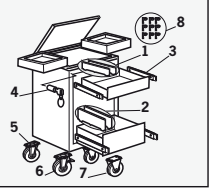
Bodywork repair workstation

CR.T1

Comprising :
• A lid :
- containing a panel fitted with a system for securing dressers and hammers.
- PK perforations for freely hanging other tools.
- 2 gas springs for ease of use.
• 2 trays that pull out sideways to reveal a large bin for storing heavier tools such as dollies and spoons. The bottom of the trays and the bin are fitted with non-slip mats.
• 3 drawers (2 x 60 mm + 1 x 130 mm) compatible with the Facom modular storage system and 1 bin drawer (270 mm high) for storing bulky items and pneumatic tools.
• High resistance, easy-to-maintain galvanized steel worktop.
• Safe : Central key locking of lid and drawers.
• Corner bumpers to avoid damage to vehicles in case of accidental contact.
• Manoeuvrability ensured by 4 large diameter wheels, 2 fixed, 2 castors, one with a brake.
• Dimensions : 1,020 x 770 x 460 mm.
⚖ : 76.5 kg.

CR.T4

1	2840.15	5	2092.09
2	2840.16	6	2092.10
3	2840.13	7	2092.11
4	2840.17	8	CRT4.04



Surface preparation workstation

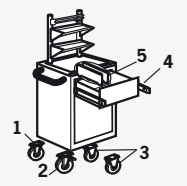
CR.T3

• 2 sloping upper shelves for storing consumables.
• 1 drawer 130 mm high with padlock for expensive items, safety items, etc.
• 2-way sloping shelf for ordinary tools.
• 1 storage area for bulky consumables.
• Perforated recessed side panels for attaching accessories : 2 bottle-shelves, 1 paper-roll holder, wire supports to hold paint guns, 1 waste bag holder.
• Dimensions 1,585 x 1,020 x 610 mm.
⚖ : 52 kg.

	Dimensions mm	⚖ kg
CR.T3	1585 x 1020 x 610	52

CR.T3

1	2825.08	4	2840.13
2	2825.09	5	2840.16
3	2600.19		



Windshield workstation

CR.T2

• Drawer 130 mm high (padlock closure), tool shelf and storage area for consumables.
• Supplied with a paper-roll holder and two bottle shelves.
• Galvanised steel worktop with adjustable arms for supporting light vehicle and heavy-duty vehicle windshields.
• Foam windshield support pads.
• Padlocked drawer.
• Dimensions 1,050 x 970 x 610 mm.
⚖ : 48 kg.

CR.T2

1	2825.08	3	2600.19
2	2825.09		

Accessories

XL vertical panel

JET.A6G

- For hanging drawings, procedures and tools (compatible with Facom CKS hook system).
- Supplied with sheet holder (ring binders, without sheets or tools).
- Dimensions : L. 690 x D. 30 x H. 320 mm.

⚖ : 6 kg.

XL nuts and screws stand

JET.A7

- Panel with 2 rows of tip-out bins for nuts and screws.
- 1 row of 6 bins : dimensions : 600 mm x 110 mm
- 1 row of 9 bins : dimensions : 600 mm x 70 mm
- Fasteners cannot fall out, even when moving the cabinet.
- For JETXL roller cabinet.
- Dimensions : L.690 x D.120 x H.220 mm.
- Tube : 755 mm.

⚖ : 6.2 kg.

XL side cupboard

JET.A8G

- For storing long and/or expensive tools.
- Compatible with Facom CKS hook system.
- Key locking.
- For JETXL roller cabinet.
- Dimensions : L.380 x D.85 x H.685 mm.

⚖ : 7 kg.

Red anti-theft bar

JET.A9

- In addition to central locking of drawers. Secured with a padlock (not included).
- Quickly and easily installed.
- Dissuasive and attractive.
- For JETXL roller cabinet.
- Dimensions : L.120 x D.110 x H.880 mm.

⚖ : 5.5 kg.

XL bottle holder

JET.A1G

- For storing aerosols, cleaning products, sprays, etc.
- Dimensions : L.380 x D.112 x H.125 mm.
- CHRONO.XL compatible.

⚖ : 1.2 kg.

Grey XL document holder

JET.A2G

- Kind to documents : Rounded edges and protective joint.
- Can hold an A4 file.
- Dimensions : L.340 x D.55 x H.315 mm.
- CHRONO.XL compatible.

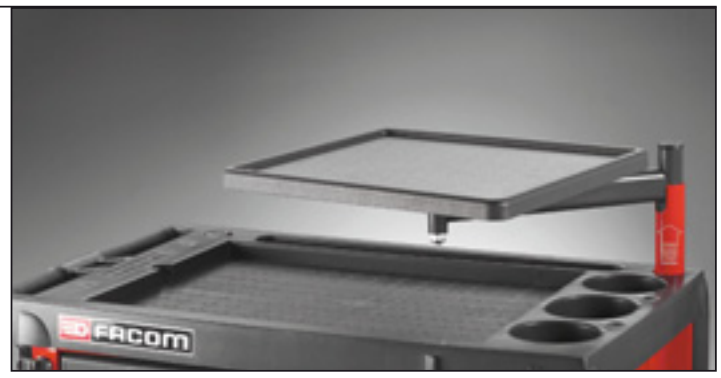
⚖ : 800 g.

Pivoting shelf

JET.A3

- For supporting a laptop computer or taking notes.
- Raised lip and blocking mechanism ensure secure support.
- Dimensions : 515 x 480 x 200 mm.

⚖ : 1 kg.



XL Cleaning accessories

JET.A5G

- Detachable compartmented magnetic shelf + paper roll holder
- Easy to unroll, blocks the paper between pulls.
- Paper not included.
- Dimensions : L.410 x D.300 x H.185 mm.
- Detachable metal waste bin. Easy to empty
- Dimensions : L.380 x D.160 x H.250 mm.
- CHRONO.XL compatible.

⚖ : 5.2 kg.

Detachable compartmented magnetic shelf + paper roll holder

JET.A5-1G

- Easy to unroll, blocks the paper between pulls.
- Paper not included.
- Dimensions : L410 x D.300 x H.185 mm.

⚖ : 3 kg.

Waste bin

JET.A5-2

- Dimensions : L.380 x D.160 x H.250 mm.
- CHRONO.XL compatible.

⚖ : 2.2 kg.

Paper roll holder only

JET.A5-3G

- Easy to unroll, blocks the paper between pulls (paper not included).
- Dimensions : 340 x 150 mm.
- CHRONO.XL compatible.

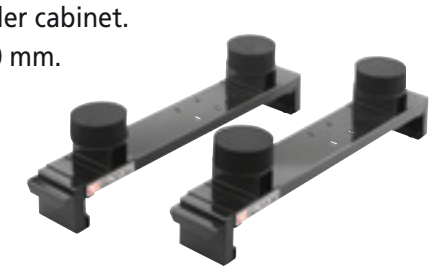
⚖ : 600 g.

Adjustable windshield support

2800.A8

- Instantly attaches onto a roller cabinet.
- Dimensions : 540 x 160 x 100 mm.

⚖ : 2.8 kg.



Carry tray and holder

JET.A11

- Heavy-duty plastic carry tray.
- Very handy for carrying tools to the point of use.
- Complete with connection kit for quick installation.
- Dimensions : L.115 x P.385 x H.255 mm excluding handle.

⚖ : 3 kg.

Wooden worktop

JET.A4

- For JET.XL roller cabinet.
- Fits easily into the worktop recess.
- Dimensions L. 588 x D. 439 x H. 12.5 mm.

⚖ : 1.95 kg.

Patterned aluminium worktop

JET.A12XL

- Very resistant.
- Fits easily into the worktop recess of JET.XL roller cabinets.
- Dimensions L. 588 x W. 439.

⚖ : 1.105 kg.

Sheet of tags

2225.A1

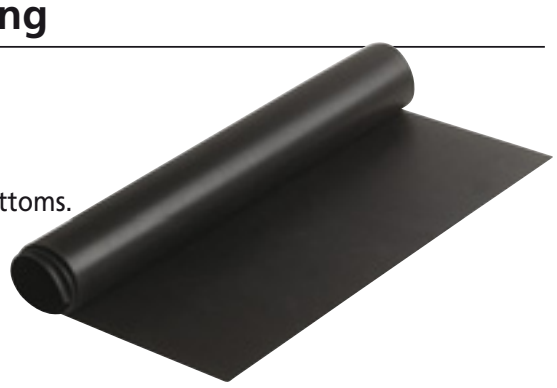
- Drawer organization and identification.

Rubber matting

2600.A2

- Easy to cut.
- 534 x 390 mm.
- For lining drawer bottoms.

⚖ : 210 g.



Drawer partitions

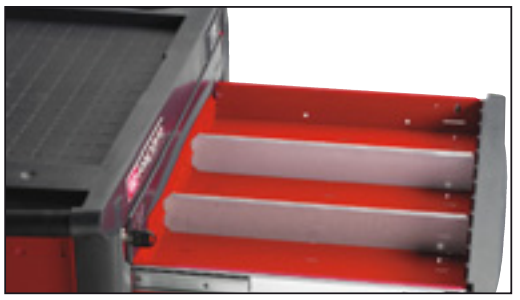
- For small drawers :

- JET.XL or CHRONO.XL drawers = JET2.15.
- CHRONO drawers = CH5T-50.

- For medium-sized drawers :

- JET.XL or CHRONO.XL drawers = JET2.16.
- CHRONO drawers = CH5T-100.

	Height mm
JET2.15	60
JET2.16	130
CH5T-50	50
CH5T-100	100



Accessory application table

	Vertical panel	Vertical Nuts and screws stand	Side cupboard	Anti-theft bar	Carry tray and holder	Pivoting shelf	Bottle holder	Document holder	Wooden worktop	Patterned aluminium worktop
JET	JET.A6G	JET.A7G	JET.A8G	JET.A9	JET.A11	JET.A3	JET.A1G	JET.A2G	JET.A4/ JET.A4G	
JET.XL	JET.A6GXL	JET.A7GXL	JET.A8GXL	JET.A9XL	JET.A11	JET.A3	JET.A1GXL	JET.A2GXL	JET.A4XL	JET.A12XL
CHRONO.XL							JET.A1GXL	JET.A2GXL		

	Cleaning accessories	Shelf + roll holder	Waste bin	Roll holder	Windshield support	Rubber matting	Drawer labels	Front storage tray	Side storage tray	Fastener module
JET	JET.A5G	JET.A5-1G	JET.A5-2	JET.A5-3G	2800.A8	2600.A2	2225.A1	PL.636		PL.384
JET.XL	JET.A5GXL	JET.A5-1GXL	JET.A5-2XL	JET.A5-3GXL	2800.A8	2600.A2	2225.A1	PL.656	PL.655	PL.384
CHRONO.XL	JET.A5GXL	JET.A5-1GXL	JET.A5-2XL	JET.A5-3GXL	2800.A8	2600.A2	2225.A1	PL.656	PL.655	PL.384

FACOM MODULAR SYSTEM

COMPATIBLE WITH ALL FACOM ROLLER CABINET RANGES

For CHRONO.XL and JET.XL

If you have a Chrono.XL or JET.XL roller cabinet :

- *Position your modules.*
- *Position your modules and insert a PL.655 to the left or right hand side of the drawer and a PL.656 at the front or back of the drawer.*

If you already have storage modules and wish to use them in your new XL roller cabinet.

- *Add a side storage tray PL.655, ideal for storing nuts and bolts, to the left or the right of your drawer.*

Information

If you already own a CHRONO or JET roller cabinet and you wish to fit it with storage modules, nothing could be simpler. Simply detach the break-off section and add small the parts trays to secure the modules in place if required.

For CHRONO and JET

If you have a Jet roller cabinet

- *Remove the snap-off section.*
- *Position your modules.*
- *Place the PL.636 edge storage tray along the front or the back of the drawer.*

If you have a Chrono roller cabinet

- *Position your modules.*
- *Add the new PL.655 small parts tray on the left- or right-hand side of your drawer. Ideal for storing screws, nuts and bolts.*

Small parts tray

PL.636

- For securing modules and storing small tools and components.

⚖ : 150 g

Side storage tray for XL drawer

PL.655

- For securing modules and storing small tools and components.
- Can be placed along the right- or left-hand side of the drawer.

⚖ : 155 g.

Front/back storage tray for XL drawer

PL.656

- For securing modules and storing small tools and components.
- Can be placed along the front or the back of the drawer.

⚖ : 165 g.

Facom modular storage system

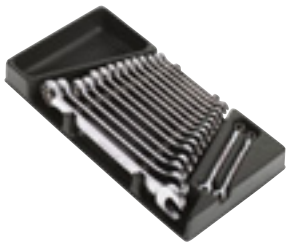
FACOM MODULAR STORAGE SYSTEM

ORGANISE AND CUSTOMISE YOUR WORKSTATION

- *1/3 drawer width module, for adapting your equipment to your needs.*
- *The Facom workstation configuration tool (www.facom.com/fr/servantes/index.html) simplifies the choice and organisation of tools.*

STORED TOOLS = PRODUCTIVITY, COMFORT AND SAFETY

- *instant access to all your tools without wasting time.*
- *Optimum safety : no more rummaging through loose tools in a drawer.*



MOD.440-1

• 16 combination wrenches 6 6 to 24 mm (PL.670)

MOD.440-2

• 4 combination wrenches 27 to 32 mm (PL.671)

MOD.40R

• 14 ratchet-effect combination wrenches 8 to 24 mm (PL.352A).

MOD.44-1

• 9 open-end wrenches 6 to 24 mm (PL.315).

MOD.44-2

• 3 open-end wrenches 26 to 32 mm (PL.316).

MOD.75-1

• 10 socket wrenches 8 to 19 mm (PL.625).

MOD.55-1

• 7 offset ring wrenches 6 to 19 mm (PL.317A).

MOD.55-2

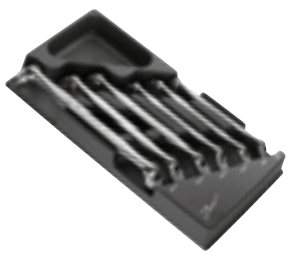
• 3 ring wrenches 22 to 28 mm (PL.318A).

MOD.67XL

• 6 Large sized wrenches : 21 to 32 mm (PL.653).

MOD.64J7

• 7-piece 12-point ratchet ring wrench module, 6 to 19 mm (PL.608A).



MOD.66A-1

• 6 hinged socket wrenches 6 to 19 mm (PL.319A).

MOD.68BHB

• 7 combination wrenches 6 to 19 mm (PL.608).

MOD.97

• 6-piece metric double-ended forged socket-wrench module, 8 to 19 mm (PL.359).

MOD.43

• Pipe wrenches 7 to 19 mm (PL.635).

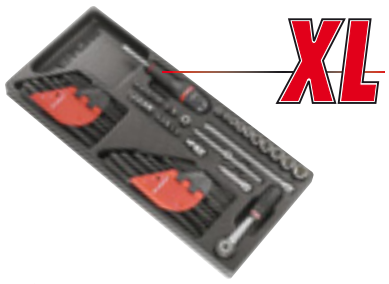
MOD.TX1

• 24 Torx® sockets (PL.360).

MOD.R1

• Sockets ☐ 1/4" and accessories/keys/bits - 35 items (PL.321).

Facom modular storage system



MOD.R5

• 1/4" 6-point sockets, metric keys and bits (PL.658).

MOD.J1

• Sockets ☑ 3/8", 8 to 22 mm and accessories (PL.322).

MOD.J5

• 3/8" 6-point sockets 8 to 22 mm (PL.322A).

MOD.J7

• 3/8" 6-point sockets 8 to 24 mm (PL.665).

MOD.S1

• Sockets ☑ 1/2", 10 to 32 mm and accessories (PL.323).

MOD.CDX

• CDX sockets 8 to 27 mm and accessories (PL.355).

MOD.K2

• 3/4" 6-point sockets 34 to 55 mm (PL.662)..

MOD.SHP

• Sockets ☑ 1/2" with long-reach monobloc bits (PL.336).

MOD.E41

• 41 bits and 3 bit holders (PL.621).

MOD.E20L

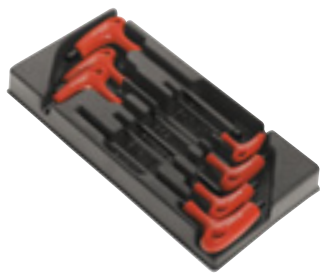
• 20 drive bits.
• Tray PL.624.

MOD.A1

• 8 Protwist screwdrivers for slotted heads 3 to 8 - "PH" 1 and 2 (PL.325).

MOD.A3

• 8 Protwist screwdrivers : 4 standard and 4 stubby (PL.326).



MOD.84TZS

• 7 spherical head tee-handle hexagon keys (PL.329).

MOD.ANX

• 7 Torx® screwdrivers 10 to 40 (PL.327).

MOD.ANXR

• 7 Protwist Resistorx® screwdrivers 10 to 40 mm (PL.327).

MOD.89TX

• 7 tee-handle Torx® keys (PL.329).

MOD.A1VE

• 8 VE 1,000 Volt insulated screwdrivers (PL.325).

MOD.VE

• 3 pliers 1,000 Volt insulated (PL.622).

MOD.CPE

• 3 sheathed engineers pliers (PL.627).

MOD.PR11

• Lock-grip pliers T5.L and multigrip pliers 181.25CPE (PL.330).

MOD.PR8

• Lock-grip pliers 500 and multigrip pliers 180 (PL.330).

MOD.MT1

• 6 electronics pliers (PL.612).

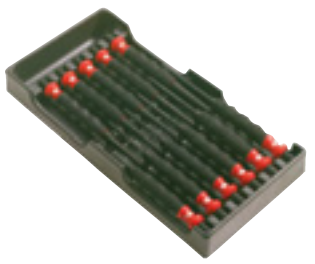
MOD.PC1

• 4 circlip pliers (PL.332).

MOD.MI1

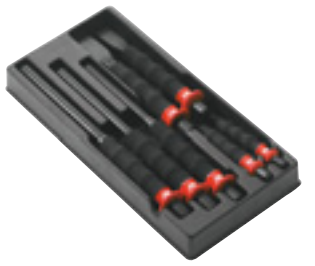
• Hammer tools (PL.333).

Facom modular storage system



MOD.CG

• Sheathed drift punch, nail set and centre punch (PL.334).



MOD.CG1

• Sheathed drift punches, flat chisels and cape chisels (PL.611).

MOD.NS260

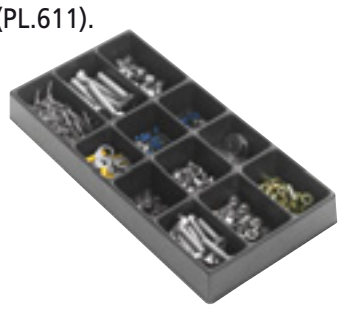
• Impact driver and bits (PL.380).

MOD.LIM

• 5 files with handles (PL.606).

MOD.Y105

• Riveter and selection of rivets (PL.377).



PL.384

• Storage for small components.
⚖ : 0.217 kg.

MOD.U46CL

• Oil change and filter module (PL.399).

MOD.DF

• Disc brake servicing module (PL.629).

MOD.196-1

• Drum brake servicing module (PL.628).

MOD.BRA

• Diesel spark plug servicing module (PL.667).

MOD.CAR1

• Forming tools (PL.396).

MOD.850

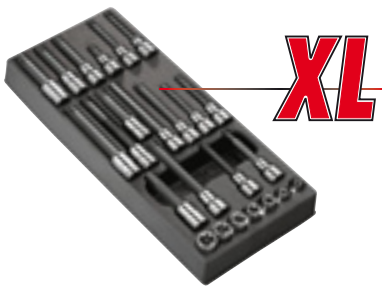
• Milled files (PL.630).

MOD.234

• Measuring and scribing module (PL.633)

MOD.MET

• Metrology module (PL.634).



MOD.CH

• Cylinder head tightening and loosening tool module (PL.663).

MOD.BJ

• Module for 16 to 21 mm spark plugs. (PL.161)

MOD.U306

• Pullers U.306A140 and U.14L + 6 legs (PL.354).

MOD.K1

• 6-point sockets ☐ 3/4", 34 to 55 mm and accessories - 10 items (PL.324).

MOD.601

• Saw, tape measure, files (PL.335).

MOD.208

• Wheel nut tightening tools (PL.337A).

MOD.99B

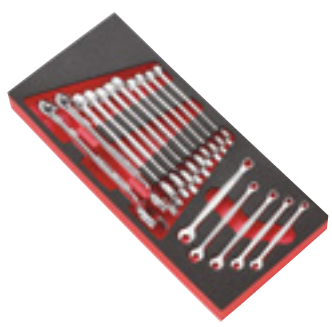
• 7 tee socket-wrenches with universal joint 7 to 19 mm (PL.304).

New FACOM CONTROL SYSTEM

THE SAFETY OF AN INSTANT INVENTORY

- *Two-colour system (Red bottom) helps immediate identification of missing tools. No risk of forgetting a tool in a machine or an engine after servicing.*
- *Finger recesses for easy pick-up.*
- *Completely silent during transport.*
- *Tools securely held during transport.*
- *Resistant to workshop chemicals.*
- *Dimensions of a JET.XL or CHRONO.XL 1/3 drawer width module : 18.8 x 41.7 x 4.5 cm.*

Contact your dealer for special aeronautical trays.

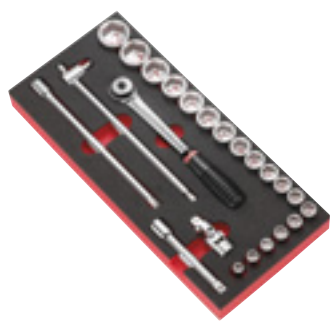


MODM.440-1

• Foam module - 16 combination wrenches 5 to 24 mm (PM. MOD440-1).

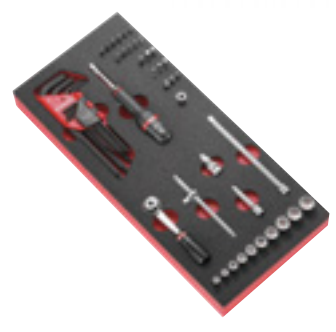
MODM.440-2

• Foam module - 4 combination wrenches 27 to 32 mm. Completes MODM.440-1 (PM.MOD440-2).



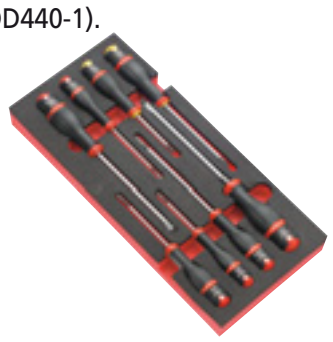
MODM.S1A

• Foam module - sockets ☐ 1/2", 10 to 32 mm and accessories - 23 items (PM.MODS1A).



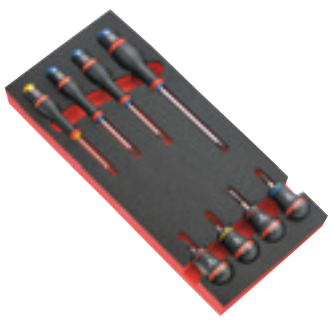
MODM.R1A

• Foam module - sockets ☐ 1/4" and accessories/keys/bits - 38 items (PM.MODR1A).



MODM.A1

• Foam module - 8 Protwist screwdrivers for slotted heads 3 to 8 - "PH" heads no. 1 and 2 (PM. MODA1).



MODM.A3

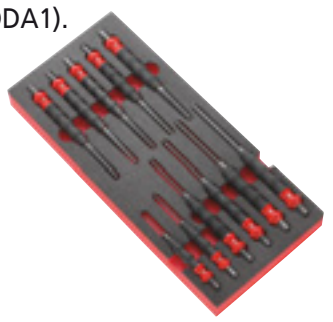
• Foam module - 8 Protwist screwdrivers : 4 standard and 4 stubby (PM.MODA3).

MODM.CPE1

• Foam module - 3 sheathed CPE pliers and 1 pair of lock-grip pliers (PM.MODCPE1).

MODM.MI1

• Foam module of hammer tools (PM.MODMI1).

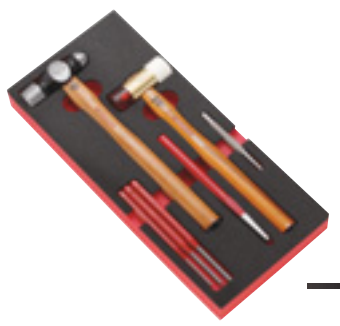


MODM.CG

• Foam module - sheathed drift punches, nail sets and centre punch (PM.MODCG).

MODM.MI3

Hammer, mallet, chisel, centre punch, Long drift punches 4 - 5 - 6 mm. (PM.MODMI3).



MODM.MI4

Hammer, mallet, chisel, centre punch, Long drift punches 4 - 5 - 6 mm. (PM.MODMI4).

XL

Heavy-duty workbenches

New

Heavy-duty WORKBENCHES

ALL THE ADVANTAGES OF THE JET.XL DRAWER SYSTEM - IN A WORKBENCH

Selective drawer opening :

Fully opening

Fully compatible with FACOM modular storage range

Central locking

Tags for easy identification of drawer contents (supplied with each unit)

Compatible with the FACOM modular storage system

New

Workbench 1.5 m long

1500.AA1

- Beech-ply worktop. Linseed oil-treated for easy maintenance.
- Worktop length : 1.5 m.
- Worktop width : 750 mm.
- Standard height : 850 mm.
- Colour : RAL 9006 Grey.

⚖ : 95 kg.

Workbench 2 m long

2000.AA1

- Beech-ply worktop 40 mm thick. Linseed oil-treated for easy maintenance.
- Worktop length : 2 m.
- Worktop width : 750 mm.
- Standard height : 850 mm.
- Colour RAL 9006 Gey.

⚖ : 99 kg.

Workbench 1.5 m long with 6 drawers

1500.AB1

- Worktop length : 1.5 m.
- Worktop width : 750 mm.
- Standard height : 850 mm.
- Colour RAL 9006 Grey.
- Complete with one 6-drawer unit :

- 4 x 60 mm + 1 x 130 mm + 1 x 270 mm.
- Supplied with 3 sets of removable partitions for small drawers.

⚖ : 102 kg.

Workbench 2 m long with 6 drawers

2000.AB1

- Worktop length : 2 m.
- Worktop width : 750 mm.
- Standard height : 850 mm.
- Colour RAL 9006 Gey.
- Complete with one 6-drawer unit :

- 4 x 60 mm + 1 x 130 mm + 1 x 270 mm.
- Supplied with 3 sets of removable partitions for small drawers.

⚖ : 105 kg.

Heavy-duty workbenches

Resistant

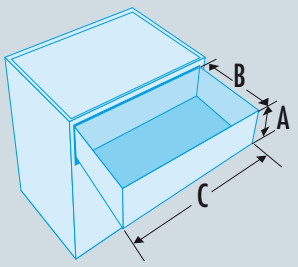
- Sturdy beech-ply worktop 40 mm thick
- Linseed oil-treated for increased resistance to liquids and easy maintenance
- Rigid 12/10 mm and 15/10 mm steel construction
- Drawers supported on heavy-duty ball-bearing slides providing a capacity of 50 kg per drawer.

Large storage capacity

- 6 fully-opening drawers giving total access to contents.

Compatible with the FACOM modular storage system

Static resistance 1,000 kg



A mm	B mm	C mm
60	421	569
130	421	569
270	421	569

New

Workbench 2 m long with 12 drawers

2000.BB1

- Worktop length : 2 m.
- Worktop width : 750 mm.
- Standard height : 850 mm.
- Colour : RAL 9006 Grey.

- Complete with two 6-drawer units : 4 x 60 mm + 1 x 130 mm + 1x 270 mm.
- Supplied with 6 sets of removable partitions for small drawers.

⚖ : 120,5 kg.

Workbench 2 m long with drawers and cabinet 2210

2000.AB32

- Workstation 2 m long
- Unit comprising a workbench 2000.AB1 and a shutter cabinet 2210.
- Workbench 2000.AB1 :

- Complete with one 6-drawer unit : 4 x 60 mm + 1 x130 mm + 1 x 270 mm.
- Supplied with 3 sets of removable partitions for small drawers.
- Worktop length : 2 m.
- Worktop width : 750 mm.
- Standard height : 850 mm.
- Beech-ply worktop 40 mm thick. Linseed oil-treated for easy maintenance.
- Colour : RAL 9006 Grey.

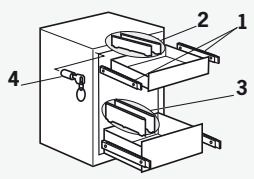
- Cabinet 2210 : Shutter cabinet 2 m long.

- Effective storage space 1,875 x 714 x 145 mm.
- Tools hung by CKS system.
- Key lock.
- Dimensions : 2,000 x 800 x 240 mm.
- Colour : RAL 9006 Grey.

⚖ : 135 kg.

1500.AB1, 2000.AB1, 2000.BB1, 2000.AB32

1	JET2.14
2	JET2.15
3	JET2.16
4	2840.17



Maintenance workbenches

Maintenance workbenches

Stable

- 40mm thick linseed treated beech worktop: tough and resistant.
- "U" profile steel construction
- Can be bolted to the floor

Simple

- Quick and easy to assemble.
- Central "foot rest" cross-bar.
- Workbenches 2 m long can receive an optional second drawer unit 2235.AT.

Compatible with the FACOM modular storage system

Workbench 2 m long

2250.AT3

- Worktop length : 2 m.
- Surface width : 750 mm.
- Height : 860 mm.
- Treated beech-ply worktop 40 mm thick
- Three-drawer unit 2235.AT3, with partitions.
- Optional second drawer unit 2235.AT.
- Drawer size : 534x358 mm.

⚖ : 96.5 kg.

Workbench 2 m long

2250

- Worktop length : 2 m.
- Surface width : 750 mm.
- Height : 860 mm.
- Treated beech-ply worktop 40 mm thick.
- Two drawer units 2235.AT (optional).

⚖ : 70.5 kg.

Maintenance workbenches

Workbench 1.5 m long with panel

2245.PVAT3

- Worktop length : 1.5 m.
- Surface width : 750 mm.
- Height : 860 mm.
- Treated beech-ply worktop 40 mm thick
- Vertical panel for hanging tools using the CKS system : 1500x510x50 mm.
- Three-drawer unit 2235.AT3, with partitions.
- Drawer size : 534x358 mm.

⚖ : 97.3 kg.

Workbench 1.5 m long

2245

- Worktop length : 1.5 m.
- Surface width : 750 mm.
- Height : 860 mm.
- Treated beech-ply worktop 40 mm thick
- One 2235.AT drawer unit (optional).

⚖ : 59.5 kg.

Drawer units

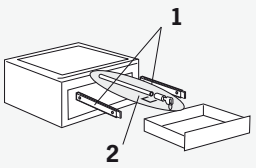
2235.AT Drawer unit

- Drawer unit to fit either side under worktop.
- Fittings supplied.
- Key lock.
- Drawer size : 534 x 358 mm.

	Drawer heights		Overall	⚖
	50 mm	100 mm	dimensions mm	kg
2235.AT2	-	x 2	670 x 426 x 315	20,5
2235.AT3	x 2	x 1	670 x 426 x 315	26

2235.AT1-2235.AT2-2235.AT3

1	2834.10
2	2235.AT1-02



Worktop cabinets and wall storage units

• *El fondo, los laterales, las puertas y*

Worktop CABINETS and wall storage units

Maximum visibility and accessibility

- *Shutters open fully and doors to 180°.*

Compact, optimised storage

- *Walls, sides and door panels are perforated to maximise storage space.*

Modular

- *Wall mounted units are compatible with the Facom modular storage system.*

Safety system

- *Centralised key-locking of wall unit doors and drawers.*

Worktop mounted

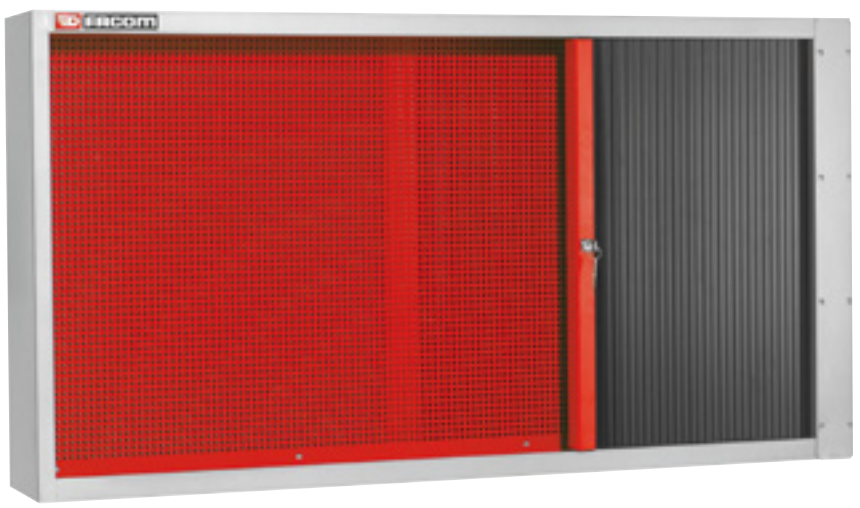
Wall mounted

Shutter cabinet 1.50 m long

2205

- Effective storage space 1,375 x 714 x 145 mm.
- Tools hung by CKS system.
- Key lock.
- 1,500 x 800 x 240 mm.

⚖ : 25 kg.

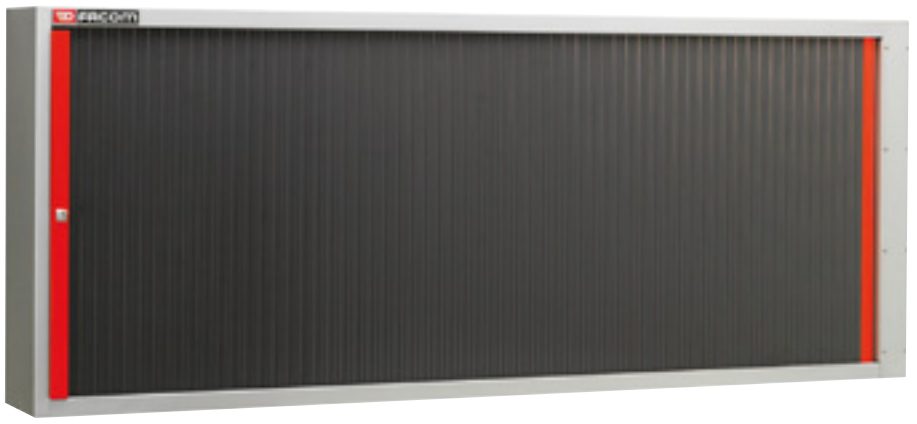


Shutter cabinet 2 m long

2210

- Effective storage space 1,875 x 714 x 145 mm.
- Tools hung by CKS system.
- Key lock.
- 2,000 x 800 x 240 mm.

⚖ : 30 kg.



Worktop cabinets and wall storage units

New

Wall unit - 1 drawer - 810 mm high

2201

• Cabinet with vertical hanging and drawer sections.
- Vertical storage section :
• Storage surface area : 1 m².
• The bottom and the sides of the cabinet, as well as the door linings are perforated for hanging tools using the CKS system.
• The two door leaves open to 180° for maximum visibility and accessibility.
- Drawer section :
• 1 fully-opening drawer with ball-bearing slides.
• Effective drawer dimensions : L. 569 x H. 60 mm x D. 210 mm.
• Central key locking of doors and drawer.
• Wall-mounted (through holes provided) or supported on the workbench.
• Dimensions : L. 720 mm x D. 280 mm x H. 810 mm.
⚖ : 31 kg.

Wall unit with 2 drawers and shutters - 1,000 mm high

2202XL

• Vertical storage section :
• Storage surface area : 1.8 m².
• The bottom and the sides of the cabinet, the door linings, as well as the 2 additional shutters are perforated for hanging tools using the CKS system.
• The two door leaves open to 180° for maximum visibility and accessibility.
• Drawer section :
• 2 fully-opening drawers with ball-bearing slides.
• Effective drawer dimensions : L. 569 x H. 60 mm x D. 210 mm.
• Central key locking of doors and drawers.
• Wall-mounted (through holes provided) or supported on the workbench.
• Dimensions : L. 720 x D. 280 x H. 1,000 mm.
⚖ : 42.5 kg.

Shutter cabinet

2216

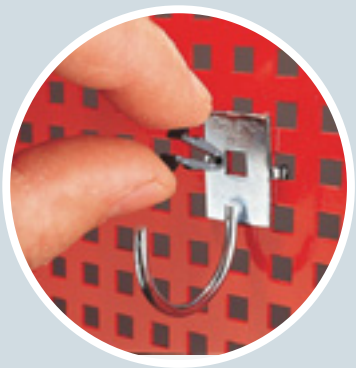
• Compact cabinet for storing a set of tools.
• Shutter key lock.
• Tools hung by CKS system.
• Can be screwed to a wall (through holes provided).
• 800 x 550 x 150 mm.
⚖ : 12 kg.

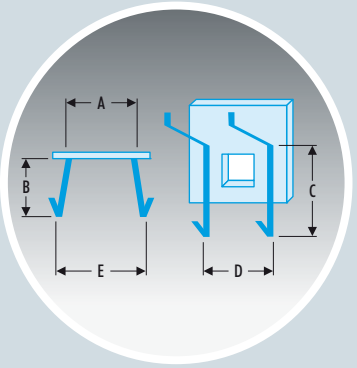
Panels and hook system

Perforated panels and CKS hook system

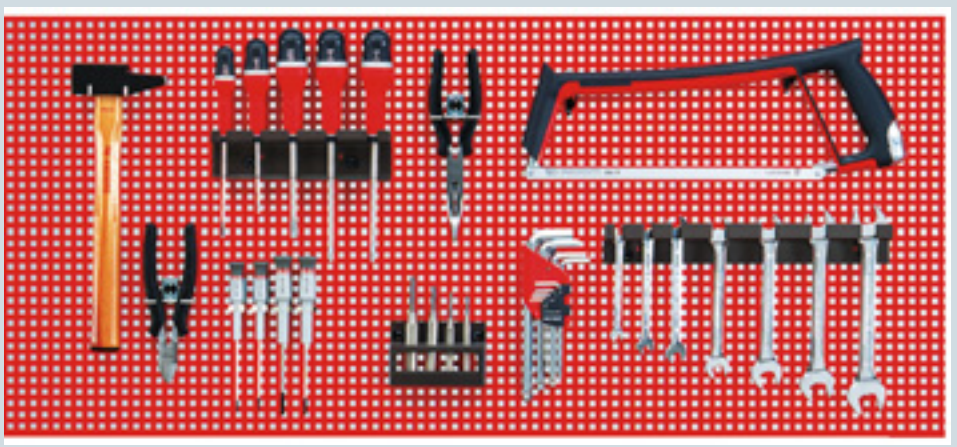
A HOOK FOR EACH TOOL

Space-saving : Wall surfaces are transformed into storage surfaces.
Ergonomic : Direct tool access.





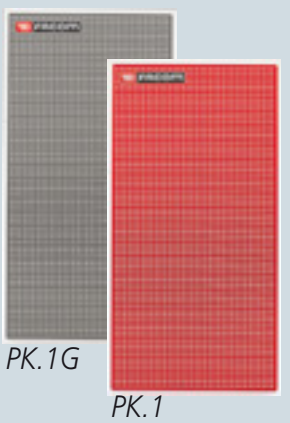
CKS hook system
• Installation of retaining clip CKLA

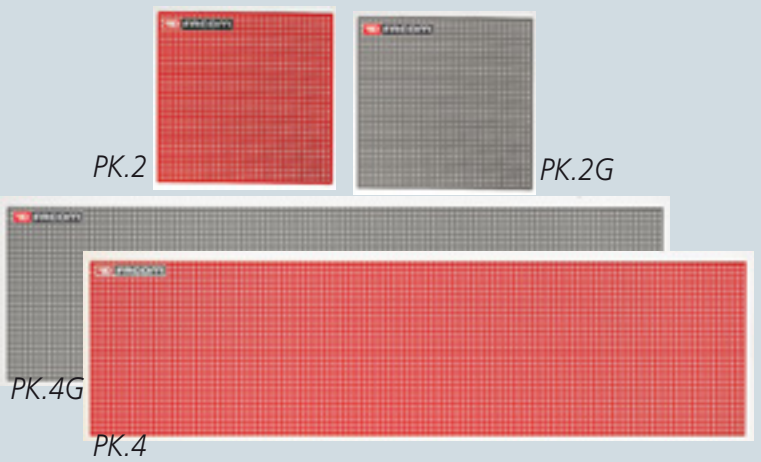


Perforated panels
• Perforation : 6 long x 6 mm.
• Pitch : 12 mm.

	L mm	H mm	I mm	⚖ kg
PK.1	444	888	10	2,350
PK.2	444	444	10	1,160
PK.4	1665	444	10	4,360

	L mm	H mm	I mm	⚖ kg
PK.1G	444	888	10	2,350
PK.2G	444	444	10	1,160
PK.4G	1665	444	10	4,360





Standard hook and retaining clip

CK : standard hook, length 50 mm.
CKLA : very useful when Redesigning hook layout (pack of 10) ⚖ 10-15 g.

Hooks for combination and open-end wrenches

CKS.60A : hook ∅ 30 mm.
CKS.61A : hook ∅ 15 mm.
CKS.57A : dim. : A : 13 mm, B : 5 mm.
CKS.58A : dim. : A : 25 mm, B : 8 mm.
CKS.59A : dim. : A : 36 mm, B : 12 mm.

Hooks for screwdrivers

CKS.50A : dim. : A : 13 mm, C : 35 mm, D : 7 mm.
CKS.51A : dim. : A : 13 mm, C : 35 mm, D : 10 mm.
CKS.52A : dim. : A : 14 mm, C : 35 mm, D : 13 mm.
CKS.70A : dim. : A : 15 mm, C : 37 mm, D : 36 mm, E : 25 mm.

Hooks for hammers

CKS.45A : dim. : A : 17 mm, B : 28 mm.
CKS.46A : dim. : A : 33 mm, B : 36 mm.

Hooks for round tools

CKS.64A : ∅ 7 to 9 mm.
CKS.65A : ∅ 8 to 12 mm.
CKS.66A : ∅ 12 to 15 mm.
CKS.67A : ∅ 15 to 25 mm.
CKS.68A : ∅ 25 to 32 mm.

Hooks for pliers

CKS.55A : dim. : A : 61 mm, B : 28 mm.
CKS.56A : dim. : A : 50 mm, B : 17 mm.

Hook sets

CKS.K1 : set of 30 hooks
20xCK, 5xCKS.58A, 5xCKS.59A.
CKS.K2 : set of 40 hooks
5xCKS.45A, 5xCKS.46A, 5xCKS.55A, 5xCKS56A, 10xCKS.66A, 10xCKS.67A.
CKS.K3 : set of 65 hooks
20xCKS.60A, 20xCKS.61A, 5xCKS.67A, 5xCKS68A, 5xCKS.50A, 5xCKS.51A, 5xCKS.52A.

Worktop cabinets and wall storage units

Tool racks

Wrench rack

CKS.11A 5 wrenches 44, 21 to 32 mm. ⚖ : 130 g.
CKS.10A 7 wrenches 44, 6 to 19 mm. ⚖ : 120 g.
CKS.38A 9 combination wrenches 40, 8 to 19 mm. ⚖ : 85 g.
CKS.7A 10 hexagon keys, 2 to 10 mm. ⚖ : 130 g.
CKS.37A 9 socket wrenches 75 or 76, 8 to 19 mm. ⚖ : 186 g.
CKS.39A 16 socket wrenches 75 - 76 - 92, 8 to 24 mm. ⚖ : 780 g.
CKS.17A 14 nut spinners 74. ⚖ : 206 g.

Screwdriver rack

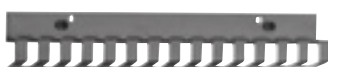
CKS.14A 4 screwdrivers AC. AP. ⚖ : 85 g.
CKS.12A 5 screwdrivers AF. ⚖ : 115 g.
CKS.13B 5 screwdrivers AC - AG - AR - ATH - AZ - AN - AW. ⚖ : 90 g.
CKS.82A 6 screwdrivers AZ - AN - AW. ⚖ : 135 g.
CKS.15A 10 screwdrivers AC - AN - AW. ⚖ : 192 g.
CKS.83A 10 screwdrivers AZ - AN - AW. ⚖ : 160 g.
CKS.16A 14 screwdrivers AR - AN - AW. ⚖ : 220 g.

File rack

CKS.34A 9 files with handles. ⚖ : 140 g.
CKS.35A 5 files with handles. ⚖ : 68 g.

CKS.39A

CKS.14A


CKS.17A

CKS.82A

CKS.83A CKS.15A

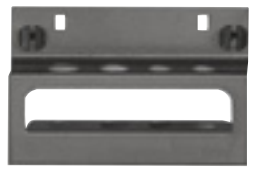
CKS.34A

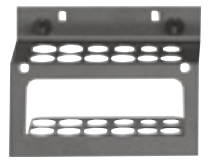
CKS.37A

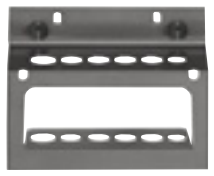
Tool set organisers

CKS.1A 13 ☐ 1/2" - 3/8" sockets - 8 - 21 mm. ⚖ : 280 g.
CKS.2A 9 ☐ 1/2" sockets - 22 - 32 mm. ⚖ : 286 g.
CKS.25A 5 stud extractors ∅ 4 - 11 mm. ⚖ : 52 g.
CKS.27A 5 drift punches ∅ 2.5 - 10 mm. ⚖ : 47 g.
CKS.28A 4 round tools ∅ 10 - 12 mm. ⚖ : 50 g.
CKS.29A 6 drift punches ∅ 2 - 8 mm. ⚖ : 126 g.
CKS.31A 7 drift punches ∅ 2 - 10 mm. ⚖ : 123 g.
CKS.32A 9 drift punches ∅ 1 - 6 mm. ⚖ : 131 g.
CKS.23A 12 drift punches ∅ 4 - 10 mm. ⚖ : 124 g.
CKS.33A 12 drift punches ∅ 2 - 8 mm. ⚖ 110 g.
CKS.80B 4 chisels. ⚖ : 145 g.
CKS.81A 5 cape chisels. ⚖ : 210 g.

CKS.1A


CKS.28A


CKS.23A CKS.33A


CKS.29A

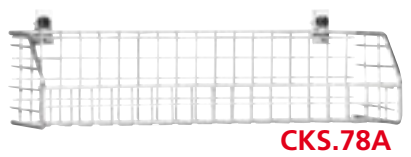
CKS.81A

Other tool holders

CKS.78A Wire basket 355 x 105 x 92 mm. ⚖ : 208 g.
CKS.76A A : 60 mm, B : 65 mm. Power tools. ⚖ : 190 g.
CKS.77A A : 55 mm, B : 100 mm. Power tools. ⚖ : 190 g.
CKS.79A A : 48 mm, B : 60 mm. Air tools. ⚖ : 200 g.
CKS.71A A : 48 mm, B : 60 mm. Air tools. ⚖ : 200 g.
CKS.73A Assorted round tools. ∅ 25 - 32 mm. ⚖ : 125 g.
CKS.72A Sander. ⚖ : 145 g.
CKS.85A Bin bracket. Length : 400 mm. ⚖ : 320 g.
CKS.86 Plastic bin. 110 x 110 x 40 mm. ⚖ : 50 g.
CKS.87 Plastic bin. 110 x 150 x 60 mm. ⚖ : 90 g.
CKS.88 Plastic bin. 110 x 200 x 85 mm. ⚖ : 165 g.

CKS.72A

CKS.73A


CKS.78A

CKS.71A CKS.79A CKS.77A CKS.76A

CKS.85A CKS.86A CKS.87A CKS.88A

Hook reference table

Using the reference tables

- ***Start with the tool family, e.g. Wrenches.***
- ***Select the tool reference, e.g. 440.26.***
- ***Hook reference appears opposite the tool reference : CKS.60A.***

If more than one tool reference goes with the same hook, the symbol / indicates the reference covered. coveRot, e.g. 41.6 / 41.24 means that wrenches 6 to 24 can be stored on hook CKS.61A.

39.3,2H / 39. 11/16	CKS.61A
41.26 / 41.32	CKS.60A
41.46L / 41.80L	CKS.60A
41.6 / 41.24	CKS.61A
42.8X10	CKS.57A
42.1/2X9/16 / 42.9/16X5/8	CKS.58A
42.19X22 / 42.22X24	CKS.59A
42.3/4X7/8 / 42.1'X1'1/8	CKS.59A
42.36X41	CKS.56A
42.5/16X3/8	CKS.57A
43.17X19	CKS.58A
43.7X9	CKS.66A
44.1/4X5/16 / 44.11/32X13/32	CKS.57A
44.11/16X3/4	CKS.58A
44.13X15 / 44.13X17	CKS.58A
44.1'7/16X1'5/8	CKS.56A
44.24X27 / 44.25X28	CKS.59A
44.3,2X5,5 / 44.4X5	CKS.64A
44.3/4X13/16 / 44.7/8X15/16	CKS.59A
44.3/4X13/16 / 44.7/8X15/16	CKS.59A
44.38X42	CKS.56A
44.5,5X7 / 44.8X10 / 44.10X11	CKS.57A
45.19 / 45.95	CKS.61A
54A.24 / 54.95	CKS.60A
55A.1/4X5/16 / 55A.1'1/8X1'1/4	CKS.61A
55A.15/16X1"	CKS.61A
55A.27X29 / 55A.46X50	CKS.60A
55A.6X7	CKS.61A
55A.7X8 / 55A.26X28	CKS.61A
57.10X12 / 57.19X22	CKS.61A
59.6X7 / 59.30X32	CKS.61A
66A.16X17 / 66A.21X23	CKS.67A
66A.3/8X7/16 / 66A.5/8X3/4	CKS.66A
66A.6X7	CKS.65A
66A.8X9 / 66A.14X15	CKS.67A
68B.17X19H / 68B.22X24H	CKS.60A
68B.6X7 / 68B.16X18H	CKS.61A
68TX.6X8 / 68TX.14X18	CKS.61A
70A.27 / 70A.32	CKS.60A
70A.5/16 / 70A.7/8	CKS.61A
70A.7 / 70A.24	CKS.61A
74.10 / 74.14	CKS.52A
74.3,2 / 74.9	CKS.51A
74.3/16 / 74.11/32	CKS.51A
74.3/8 / 74.7/16	CKS.52A
74T.11 / 74T.14	CKS.52A
74T.5 / 74T.10	CKS.51A
75.6 / 76.38	2 X CK
82.JP9	CKS.61A
82H.JP9 / 83SH.JP9	CKS.61A
84TC.10	CKS.70A
84TC.3	CKS.50A
84TC.4 / 84TC.6	CKS.51A
84TC.8	CKS.52A
84TZ.10	CKS.52A
84TZ.2,5 / 84TZ.8	CKS.51A
84TZ.3/32 / 84TZ.1/4	CKS.51A
84TZ.3/8	CKS.52A
84TZ.5/16	CKS.46A
84TZS.1/4 / 84TZS.3/8	CKS.51A
84TZS.4 / 84TZS.10	CKS.51A
84TZS.5/32 / 84TZS.7/32	CKS.50A
86A.JE7A / 86H.JU7	CK
87H.JE8 / 87HL.JU8	CKS.61A
89.JP8 / 89.JP8L	CKS.61A
89TX.15 / 89TX.27	CKS.51A
89TX.30 / 89TX.50	CKS.52A
89TX.6 / 89TX.10	CKS.50A
91A.6X7	CKS.65A
91A.8X9 / 91A.32X34	CK
92A.4 / 92A.32	2 X CK
94A.3,2 / 94A.5	CKS.65A
94A.4,5	CKS.65A
94A.5,5 / 94A.7	CKS.66A
94A.8 / 94A.14	CKS.67A
97.16X17 / 97.30X32	CKS.67A
97.6X7	CKS.65A
97.8X9 / 97.14X15	CKS.66A
99C.19	CKS.60A
99C.6 / 99B.18	CKS.61A
105.230 / 105.280	CKS.61A
105.375	CKS.60A
113A.12C / 113A.24C	CKS.60A
113A.4C / 113A.10C	CKS.61A
114.8	CK
115A.50 / 115A.200	CKS.61A
116.200	CKS.60A
116.50 / 116.100	CKS.61A
117.B	CKS.61A
118A	CKS.61A
119.3/8 / 119.3/4	CKS.61A
120.1/2 / 120.1'	CKS.61A
120.1'1/2 / 121.2'	CKS.60A
125A.120 / 125.A180	CKS.60A
125A.35 / 125A.80	CKS.61A
126A.120 / 126A.180	CKS.60A
126A.35 / 126A.80	CKS.61A
131.24 / 131.36	CKS.60A
131.8 / 131.18	CKS.61A
133.14 / 133.36	CKS.60A
134A.24 / 134A.36	CKS.60A
134A.8 / 134A.18	CKS.61A
135.14 / 135.24	CKS.60A
136.2 / 136A.4	CKS.61A
138.17 / 138.48	CKS.61A
440. 1/4 / 440. 1'1/8	CKS.61A
440. 1'1/4	CKS.60A
440. 19LA / 440. 22LA	CKS.61A
440. 23LA / 440.50LA	CKS.60A
440. 26 / 440. 32	CKS.60A
440. 3,2H	CKS.60A
440. 3/4LA / 440.13/16LA	CKS.61A
440. 4H / 440. 25	CKS.61A
440.7/8LA / 440.2'LA	CKS.60A
440R.8 / 440R.24	CKS.61A
AWHH1/8 / 7/32	CKS.51A
AWHH2 / 4	CKS.50A
AWHH3/32 / 7/64	CKS.50A
AWHH5 / 8	CKS.51A
AWHH9/ 10	CKS.52A
AWSH2 / 5	CKS.50A
AWSH6/ 8	CKS.51A

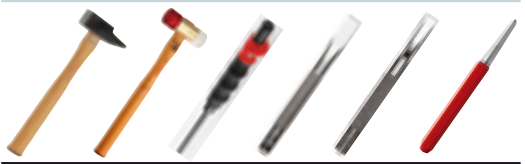
J.151A / J.161L	CKS.67A
S.143A / S.161	CKS.68A
S.171 / SJ.171	CKS.67A

A2,5X50VE / 4X150VE	CKS.51A
A5,5X125VE / 10X200VE	CKS.50A
AD.0X50	CKS.50A
AD.1X75 / 3X150	CKS.51A
ADB.0X40 / 2X40	CKS.66A
AGT.10X100	CKS.52A
AGT.6X100 / 8X100	CKS.51A
AN3,5X75 / 4X400	CKS.50A
AN4X25 / 6,5X35	CKS.68A
AN5,5X100 / 8X175	CKS.51A
AND0X75 / 1X75	CKS.50A
AND1X100	CKS.51A
AND1X25 / 2X35	CKS.68A
AND1X250	CKS.50A
AND1X400 / 3X150	CKS.51A
AND4X200	CKS.52A
ANDH2X125 / 3X150	CKS.51A
ANDH4X200	CKS.67A
ANF4X100 / 5,5X100	CKS.50A
ANF5,5X150 / 8X200	CKS.51A
ANF8EX200 / 10X250	CKS.52A
ANP0X75 / 1X250	CKS.50A
ANP1X25 / 2X35	CKS.68A
ANP2X100 / 3X150	CKS.51A
ANP4X200	CKS.52A
ANX10X35 / 20X35	CKS.68A
ANX10X75 / 20X100	CKS.50A
ANX25X100 / 40X150	CKS.51A
ANXR10X175 / 20X100	CKS.50A
ANXR25X100 / 40X150	CKS.51A
AP. 1X75 / 4X200	CKS.51A
AP.0X50 / 0X75	CKS.50A
APB. 0X40 / 2X40	CKS.66A
APT. 2X100 / 3X100	CKS.51A
APY. 0X75VE / 4X200VE	CKS.51A

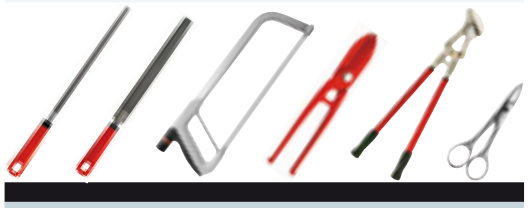
Worktop cabinets and wall storage units

AR. 2,5X75 / 3,5X100	CKS.50A
AR. 2X40 / 2,5X50	CKS.64A
AR. 4X100 / 8X200	CKS.51A
ARA. 2,5X50 / 3,5X75	CKS.64A
ARB. 4X40 / 6,5X40	CKS.66A
ATH. 5,5X100 / 8X150	CKS.51A
ATH. 8EX175 / 12X250	CKS.52A
ATHH. 10X175 / 14X250	CKS.52A
ATHH. D1 / D2	CKS.51A
ATHH. D3	CKS.52A
ATHH. P1 /P2	CKS.51A
ATHH. P3	CKS.52A
ATHH.4X90 / ATHH.8X150	CKS.51A
AW3,5X100	CKS.50A
AW5,5X100	CKS.51A
AW8X150	CKS.51A
AWDH1X75 / 2X100	CKS.51A
AWFH5,5X125 / 8X175	CKS.51A
AWFH8EX175 / 14X250	CKS.52A
AWH5,5X125 / 6,5X150	CKS.51A
AWPH2X125 / 3X150	CKS.51A
AWPH4X200	CKS.52A
AWXR25X100	CKS.51A

167E.9 / 167E.23	CKS.61A
167G.18 / 167G.23	CKS.56A
167G.9 / 167G.13	CKS.59A
169E.9 / 169E.23	CK
169G.13	CKS.59A
169G.23	CKS.56A
170A	CKS.61A
171.20EL	CK
176A.CP / 176A.CPY	CKS.61A
177E.23	CKS.56A
177E.24 / 177E.32	CKS.61A
177E.9 / 177E.19	CKS.61A
177G.18 / 177G.23	CKS.56A
177G.9 / 177G.13	CKS.59A
178A.CP	CKS.59A
179E.19	CKS.61A
179E.23	CKS.56A
179G.18 / 179G.23	CKS.56A
179G.9 / 179G.13	CK
180	CKS.61A
180.CPE	CKS.61A
180.TE	CKS.61A
180.VE	CKS.61A
181.18CPE	CKS.61A
181.18G	CKS.61A
181.18TE	CKS.61A
181.25CPE	CKS.61A
181.25G	CKS.61A
181.25TE	CKS.61A
181.30G	CKS.61A
182A.CP	CKS.60A
185.20 CPE	CKS.56A
185.28EG	CKS.56A
186.7CPG	CKS.59A
187.18 CPE / TE / VE	CK
191A.18EL / 191A.22EL	CK
192.16 CPE / TE	CK
194.17 CPE / TE / VE	CKS.56A
195.20 CPE / TE / VE	CKS.56A
197E.9 / 197E.32	CKS.61A
197G.23	CKS.56A
197G.9 / 197G.18	CKS.59A
199E.23	CKS.56A
199E.32	CKS.61A
199E.9 / 199E.18	CK
199G.18 / 199G.23	CKS.56A
199G.9 / 199G.13	CKS.59A
391.16 CPE / TE / VE	CK
395.14 / 395.16	CKS.59A
396	CKS.56A
401 / 404	CKS.56A
405.10	CK
405.12	CKS.59A
409	CKS.59A
410	CKS.61A
410.S	CKS.61A
411A.17	CKS.59A
411A.20	CKS.56A
416	CK
421	CKS.59A
425 / 435	CK
442	CKS.56A
505	CKS.61A
445.8DS / 445.10DS	CKS.61A
467 / 469	CKS.61A
477.32 / 479.32	CKS.61A
480.ECG	CKS.61A
481.40	CKS.60A
482.CPY / 482.EG	CKS.61A
484A	CK
484A.30	CKS.61A
491.18G	CKS.61A
491.20G	CKS.61A
491.22G	CKS.61A
495A.20EL	CKS.61A
495A.22EL	CKS.61A
495A.25EL	CKS.61A
495A.28EL	CKS.60A
495A.30EL	CKS.60A
497.32 / 499.32	CKS.61A
500 / 503	CKS.60A
504A.100	CKS.61A
504A.180	CKS.46A
506	CKS.60A
507A / 509	CKS.61A
511 / 512	CKS.60A
513.5 / 514A.65	CKS.61A
514A.240 / 516	CKS.60A
517.6 / 517.10	CK
520A.25 / 520A.170	CKS.61A
521.100 / 521.200	CKS.60A



200.F24 / 200.F42	CKS.46A
200A.24 / 200A.50	CKS.46A
202A.1/4 / 202A.2'	CKS.46A
203.F16 / 203A.20	CKS.46A
205.F10 / 205.F80	CKS.46A
205A.10 / 205A.50	CKS.46A
207A.25 / 207A.50	CKS.46A
208A.25 / 208A.60	CKS.46A
209.50 / 209.60	CKS.46A
212A.35 / 212A.60	CKS.46A
213.F30 / 213A.40	CKS.46A
214.10 / 214.R25	CKS.66A
214.R30	CKS.67A
214.R35	CKS.68A
215.16 / 215.30	CKS.46A
216.40 / 216.60	CKS.46A
859A.28 / 860A.40	CKS.46A
252.8 / 252.10	CKS.64A
254A.8 / 254A.10	CKS.64A
246.2 / 246.4	CKS.64A
246.5 / 246.6	CKS.65A
246.8	CKS.66A
248.2 / 248.6	CKS.64A
248.8 / 248.10	CKS.66A
249.2 / 249.3	CKS.64A
249.4 / 249.5	CKS.65A
249.6 / 249.G8	CKS.65A
249.G10 /249.G16	CKS.67A
251A.1,5	CKS.64A
251A.2,5 / 251A.5	CKS.64A
251A.6	CKS.65A
247.2 / 247.6	CKS.64A
247.8L / 247.G8	CKS.66A
255.2,5 / 255.4	CKS.64A
255.6 / 255.8	CKS.65A
255.10	CKS.66A
255.G2,5 / 255.G10	CKS.66A
256.2,5 CKS.64A	CKS.64A
256.4 / 256.8	CKS.65A
256.10 / 257	CKS.66A



CAR.MD200EM	CKS.60A
DRD.B200EM/.MD250EM	CKS.60A
PAM.B200EM / .MD250EM	CKS.60A
RAB.DRDB300EM	CKS.61A
RAB.DRDMD250	CKS.61A
RAB.DRDMD250EM	CKS.60A
RAB.RD250EM	CKS.60A
RD.B250EM/RD.MD200EM	CKS.60A
TP.AVR150EM / AVR200EM	CKS.60A
TP.EF150EM	CKS.60A
TRI.MD150EM / .MD200EM	CKS.60A
TRO.5,6EM	CKS.61A
603E 2 X CK	2 X CK
841.0	CKS.58A
841.4	CKS.56A
841.6	CKS.56A
841.7	CKS.46A
841.8A / 841.9	CKS.56A
880	CK
881 CKS.61A	CKS.61A
883B.G	CKS.60A
883.32	CKS.60A
884.30 / 884B	CKS.60A
983.8 / 983.10	CKS.55A
984.8 / 984.10	CK

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Drawer units and large capacity cabinets

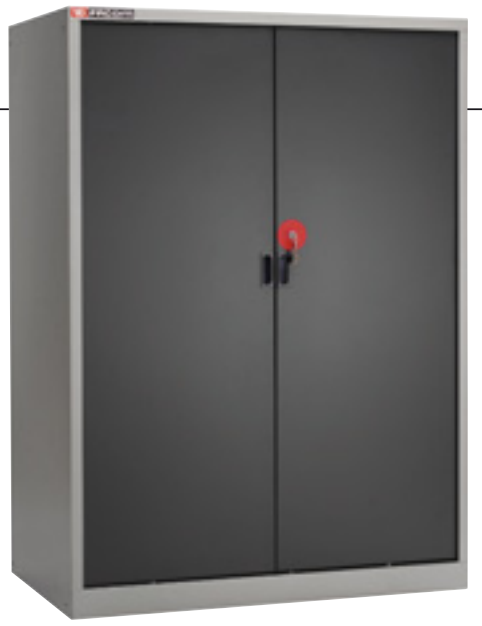
Large capacity cabinet

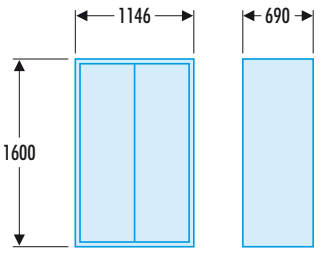
Cabinet with folding doors

2940A

- 5 shelves.
- 8 partitions 200 mm high.
- 2 bin drawers 140 mm high (320 x 400 mm).
- 2 bin drawers 140 mm high (160 x 400 mm).

⚖ : 185 kg.





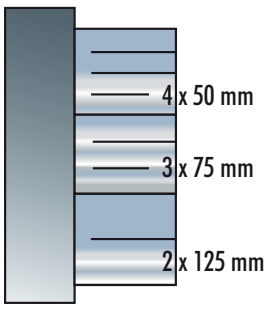
Drawer units

Nine-drawer unit

2939A

- Drawer size : 918 x 459 mm.
- Overall cabinet dimensions : 1,020 x 1,000 x 575 mm.
- Load per drawer : 100 kg.
- Fully-opening drawers.
- Anti-tilt system.

⚖ : 214 kg.

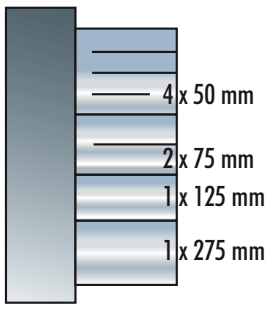


Eight-drawer unit

2938A

- Drawer size : 918 x 459 mm.
- Overall cabinet dimensions : 1,020 x 1,000 x 575 mm.
- Load per drawer : 100 kg.
- Fully-opening drawers.
- Anti-tilt system.

⚖ : 199 kg.

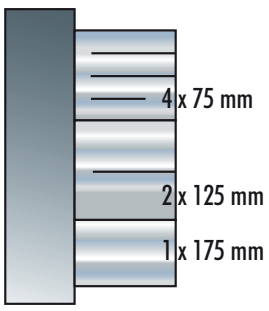


Seven-drawer unit

2937A

- Drawer size : 918 x 459 mm.
- Overall cabinet dimensions : 1,020 x 1,000 x 575 mm.
- Load per drawer : 100 kg.
- Fully-opening drawers.
- Anti-tilt system.

⚖ : 187 kg.



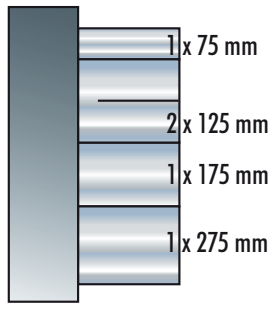
Drawer units and large capacity cabinets

Five-drawer unit

2935A

- Drawer size : 918 x 459 mm.
- Overall cabinet dimensions : 1,020 x 1,000 x 575 mm.
- Load per drawer : 100 kg.
- Fully-opening drawers.
- Anti-tilt system.

⚖ : 158 kg.



Drawer fittings

2930.A1A

- Plastic trays for 50 mm high drawers.
- 36 compartments :

- 150 x 150 x 46 mm (6 compartments).
- 150 x 75 x 46 mm (18 compartments).
- 75 x 75 x 46 mm (12 compartments).

⚖ : 2.76 kg.

Drawer fittings

2930.A2A

- Partitions for drawers 75 mm high.

- 3 dividers 459 mm long.
- 9 partitions 255 mm long.
- 3 partitions 153 mm long.

⚖ : 2.62 kg.

Drawer fittings

2930.A4A

- Partitions for drawers 75 mm high.

- 5 dividers 459 mm long.
- 22 partitions 153 mm long.

⚖ : 3.74 kg.

Drawer fittings

2930.A6A

- Partitions for drawers 125 mm high.

- 2 dividers 459 mm long.
- 6 partitions 306 mm long.

⚖ : 2.62 kg.

FACOM

3. Toolboxes, cases and chests

Tool boxes 104

Tool boxes 104
Metal toolboxes 105
Plastic toolboxes 107
Organizers 109

"Light maintenance" kits 110

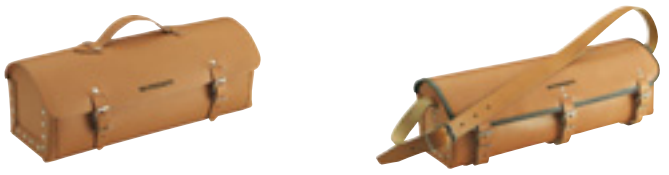
Plastic cases 110

Service cases 111

Electrical service cases 112
Universal cases 113
Roller cases 115

Leather cases 116

Leather bags 117



"Light maintenance" soft cases 118

Chests for roller cabinets 119

Maintenance chests 121

"Construction" chests 123

NEW

Facom Pro Box

The professional answer

Advantages

- Sturdy
- Kind to the working environment
- Lockable

N 107

NEW

Organisers

Ideal for on-site maintenance

Advantages

- Large capacity
- Modular design
- Safe

N 109

The new generation toolbox

Advantages

- Sturdy design
- Safe and comfortable
- Many compartments

N 104

Tool boxes

New

FABRIC TOOL BOX
BS.T20

FACOM PROBAG

Heavy duty design :

- *Very high strength 1,200 x 1,200 denier fabric.*
- *Rigid, waterproof tool compartment.*
- *Aluminium handle.*

Protection and comfort :

- *Leather grip.*
- *Padded shoulder strap.*
- *Closing flap.*

Handy storage :

- *Elastic tool retaining strap.*
- *Special screwdriver partition.*
- *Easy access to the tool compartment.*
- *Large number of side pockets.*
- *Adjustable saw compartment with self-adhesive strips.*
- *Flap top storage pouch.*

New

Fabric tool box

BS.T20

- Dimensions : 49 x 22 x 35 cm.

⚖ : 2.797 kg.

Metal tool boxes

"Traditional" metal tool boxes

INSTANT ACCESS TO COMPARTMENTS

STURDY

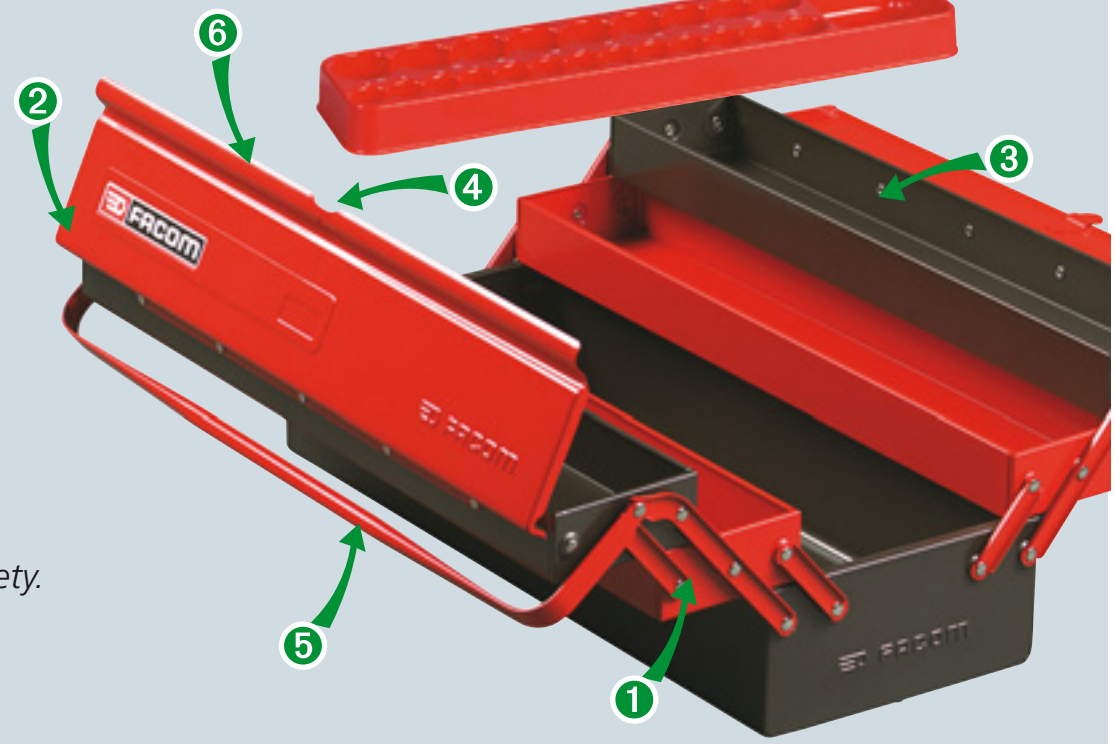
1) Heavy-duty hinges and anodized pins.
2) Stiffened lid Fully riveted.

PRACTICAL

3) Storage modules available.
4) Padlock clasp.

ERGONOMIC

5) Ergonomic handle
6) Edges carefully deburred for safety.



Five-tray box

BT.13A

- Large storage capacity.
- Can hold a hacksaw or spirit level.
- Handles pull apart for immediate access to all trays.
- Foam-lined compartment bottoms.
- Padlock clasp (padlock not supplied).
- Bottom bin : 518 x 200 x 98 mm.
- Trays : 526 x 100 x 55 mm.
- Capacity : 30 kg.
- Volume : 18 dm^3.
- Dimensions : 560 x 220 x 238 mm.

⚖ : 5 kg.

Tool boxes

Five-tray box

BT.11A

- Large storage capacity
- Handles pull apart for immediate access to all trays.
- Foam-lined compartment bottoms.
- Padlock clasp (padlock not supplied).
- Bottom bin : 448 x 200 x 98 mm.
- Trays : 448 x 100 x 55 mm.
- Capacity : 25 kg.
- Volume : 17 dm³.
- Dimensions : 475 x 220 x 238 mm.

⚖ : 4.5 kg.

Three-tray box

BT.9

- Good size-to-capacity ratio
- Handles pull apart for immediate access to all trays.
- Foam-lined compartment bottoms.
- Padlock clasp (padlock not supplied).
- Bottom bin : 448 x 205 x 98 mm.
- Trays : 448 x 100 x 55 mm.
- Capacity : 20 kg.
- Volume : 13 dm³.
- Dimensions : 475 x 220 x 185 mm.

⚖ : 3.4 kg.

	Dimensions mm	Description	⚖ g
P.10A	444 x 95 x 30	Five-compartment tray	120
PL.249	435 x 89 x 44	Socket tray	150

Tool box trolley

BT.A2

- Platform to take boxes and chests : BT.9-BT.11A-BT.13A.
- Box is secured but may be removed when necessary.
- Fold-down handle for easy storage.
- Wheels ∅ 98 mm for effortless travel.
- Max. load : 30 kg.
- Dimensions : 600/920 x 210 x 400 mm.

⚖ : 4.25 kg.

Two-tray box

BT.6A

- Bottom bin and hinged top tray.
- Lid opening offsets top tray to give immediate access to bottom bin.
- Foam-lined compartment bottoms.
- Padlock clasp (padlock not supplied).
- Carrying handle, contoured edges and identity tag recess.
- Bottom bin : 440 x 170 x 85 mm.
- Top tray : 440 x 170 x 50 mm.
- Capacity : 15 kg.
- Volume : 10 dm³.
- Dimensions : 467 x 185 x 155 mm.

⚖ : 3 kg.

"Compact" tool box

BT.4A

- Steel box containing a tool tray with central partition, comfortable handle.
- Bottom bin : 290 x 155 x 45 mm.
- Tray compartments 260 x 80 x 30 mm (x 2).
- Dimensions : 295 x 207 x 95 mm.

⚖ : 1.8 kg.

Plastic tool boxes

New FACOM PRO BOX

THE PROFESSIONAL ANSWER

Sturdy

- ***Reinforced polypropylene shell.***
  - *Impact resistant.*
  - *Resistant to common chemical agents.*
- ***Metal hinges and fasteners.***
  - *Very durable.*
- ***Safe, comfortable aluminium handle.***

Safe

- ***Flexible protective corner bumpers.***
- ***Metal padlock clasps (padlock not included).***

Easy tool use

- ***Portable tool tray.***
- ***Securing straps in the lid (BP.P26 only).***

New

51 cm box

BP.P20

- 51 cm, approx 36 dm.³.
- Dimensions : 50.2 x 26.8 x 27.3 cm.

⚖ : 2.32 kg.

66 cm box

BP.P26

- 66 cm, approx 47 dm.³.
- Dimensions : 65 x 26.8 x 27.3 cm.

⚖ : 2.94 kg.

Tool boxes

41 cm box

BP.C16

- 2 storage compartments on the lid.
- Strong metal catches.
- Padlock clasp (padlock not supplied).
- Retractable handle.
- Removable tray.
- Stackable.
- Dimensions : 41.1 x 19.9 x 18.5 cm (15 dm³).

⚖ : 1.1 kg.

49 cm box

BP.C19

- 2 storage compartments on the lid.
- Strong, padlockable metal catches (padlock not supplied).
- Retractable handle.
- Removable tray.
- Stackable.
- Dimensions : 49.3 x 25.6 x 24.8 cm (31 dm³).

⚖ : 1.95 kg.

61 cm box

BP.C24

- 2 storage compartments on the lid.
- Strong, padlockable metal catches (padlock not supplied).
- Retractable handle.
- Removable tray.
- Stackable.
- Dimensions : 61 x 27 x 28.4 cm (47 dm³).

⚖ : 2.74 kg.

Organizer

Eight-compartment organizer

BP.Z8

• Transparent lid for immediate recognition of contents.
• 8 removable, divisible compartments (up to 10 spaces).
• Polycarbonate lid.
• Lid secures the inner compartments ensuring that the parts remain in place during transport.
• Dimensions : 42.2 x 33.5 x 10.6 cm
⚖ : 1.8 Kg.

Forty-six compartment organizer

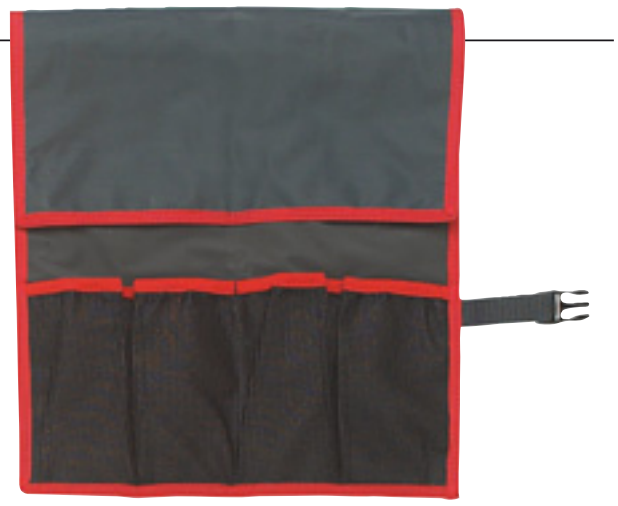
BP.Z46

• Large capacity :
- 36 litres.
- 6 central drawers.
- 2 side trays (up to 16 compartments per tray).
• Modularity :
- Customisable storage trays for tools and consumables.
- Tray separators providing up to 3 compartments per tray.
• Safety :
- Safety catch preventing trays and drawers opening during transport.
• Dimensions : 45.4 x 24.4 x 32.4 cm.
⚖ : 3.1 kg.

"Light maintenance"

Nylon tool roll bag

- Made of nylon.
- PVC pockets, available in small, medium and large sizes.
- Chemical and hydrocarbon-resistant.
- Practical : folds for transport.
- Secure : closed by clip-fastened strap.
- Ergonomic : spaces designed to suit tool sizes.

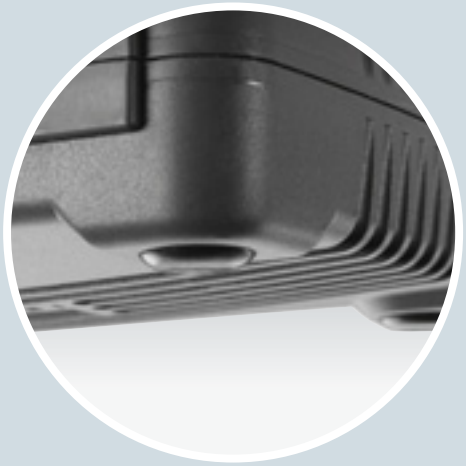


	Dimensions mm	Number of pockets Small	Medium-sized	Large	Total no. of pockets
N.38A-4B	310 x 530	-	-	4	4
N.38A-6F	360 x 520	3	-	3	6
N.38A-10C	320 x 735	3	1	6	10
N.38A-12C	330 x 800	5	-	7	12

Plastic cases

Plastic cases

FOR STORING TOOLS OR CONSUMABLES



Fitted with non-slip studs

Stackable

Scratch-resistant

These cases can fit into other Facom units :
- *Cases, tool boxes, roller cabinets, work benches, tool bags.*

BP Plastic cases

- Recyclable polypropylene.
- Chemical and hydrocarbon-resistant.
- High impact and drop resistance.
- Ultra-durable hinges and catches.
- Easily opened with one hand.
- Lightweight.

	Dimensions mm	g
BP.102	204 x 122 x 52	172
BP.109	478 x 234 x 72	923
BP.112	389 x 164 x 66	452
BP.115	332 x 143 x 67	780

Selection guide

CHOOSING A CASE

Facom cases are of sturdy design for carrying heavy loads and are laid out in such a way as to optimise the available storage space. All cases are key-lockable for the safety of your tools.

- ***Protect your back, reduce fatigue :***

  Wheeled cases. The majority of Facom cases are compatible with the "Facom case trolley" or are fitted as standard with wheels.

- ***A case to suit every need :***

	Hand-held	Workstation case (with adjustable trolley)	Roller cases
Standard	See p. 112 BV.21ST : clear bottom section BV.21SX : compartmented bottom section	See p. 114 BV.21ST + BV.C1 + BV.C1A1 BV.21SX + BV.C1 + BV.C1A1	See p. 115 BV.21TR1
Heavy-duty	See p. 112 BV.51A : rack tool holders BV.51APR : pouch tool storage	See p. 114 BV.51A + BV.C1 + BV.C1A1 BV.51APR + BV.C1 + BV.C1A1	———
Seal tight	See p. 113 BV.29 : without connecting plate BV.29P : with plate BV.C1A1	See p. 114 BV.29 + BV.C1 + BV.C1A1 BV.29P + BV.C1 + BV.C1A1	———
Large capacity	———	———	See p. 115 BV.61
Leather	See p. 116 BV.7A : "Large" BV.6A : "Medium" 640083 : "Small" BV.5A : with drawers	———	———

Service cases

Electrical service cases

Technicians case

BV.51A

• Tool storage racks (8) with rubber holding straps on 4 surfaces.
- 1 document holder in the lid.
- 1 fully modular compartment with 5 removable partitions.
• Lid can be locked open.
• Numbered key lock (20 different lock numbers can be provided to special order).
• Bi-material handle.
• Impact-resistant polypropylene shell.
• Non-slip rubber feet.
• Sizes of the 5 partitions :
- 1 partition 315 mm x 65 mm.
- 2 partitions 185 mm x 65 mm.
- 2 partitions 125 mm x 65 mm.
- Size of the bottom compartment : L.435 x D.315 x H.65 mm.
• Overall dimensions : L.486x D.430 x H.205 mm.
• Internal dimensions : L.470x D.345 x H.190 mm.
⚖ : 6.12 kg.

Technicians case

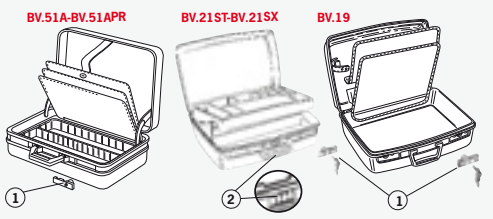
BV.51PR

• Similar to model BV.51A, but with additional internal storage panels.
• Tool pockets on 4 sides.
⚖ : 5.3 kg.

BV.21ST-BV.21SX
BV.19-BV.51A-BV.51APR

	BV.21ST	BV.21SX
1	BV.20-07J2	BV.20-07J2
2		BV.20-09

	BV.19	BV.51A/APR
1	BV.20-07J2	BV.50-04J2



Fitters case

BV.21SX

• Shock-resistant polypropylene. Airline approved. Volume 28 dm³.
• Compartmented bottom section.
• Modular tool storage with sealed compartments.
• 3 small component containers (BV.21BP).
• Soldering iron stand (BV.21-10).
• Numbered safety key locks (20 different lock numbers can be provided to special order).
• Max. capacity : 25 kg.
• Internal dimensions : 500 x 360 x 165 mm.
• Overall dimensions : 530 x 390 x 180 mm.
⚖ : 4.2 kg.

	Dimensions mm	Description	⚖ g
BV.21-10	180 x ∅ 35	Soldering iron stand	200
BV.21BP	165 x 110 x 28	Set of 3 plastic boxes	180
BV.21M	490 x 345 x 35	Foam compartment divider	200

Fitters case

BV.21ST

- Shock-resistant polypropylene. Airline approved. Volume 28 dm³.
- Modular tool storage with sealed compartments.
- Clear bottom section with no partitioning.
- Numbered safety key locks (20 different lock numbers can be provided to special order).
- Internal dimensions : 500 x 360 x 165 mm.
- Overall dimensions : 530 x 390 x 180 mm.

⚖ : 4.1 kg.

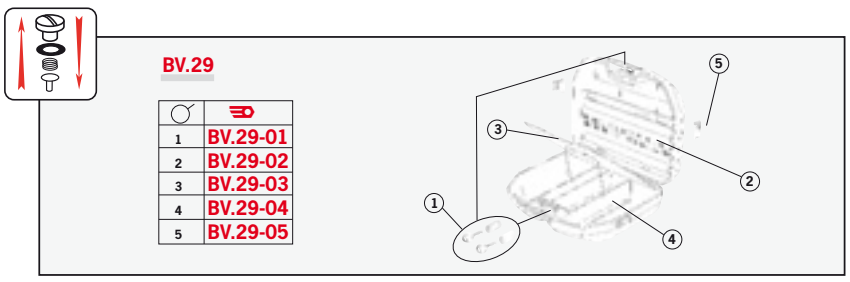
Universal cases

Universal seal-tight case

BV.29

- Polypropylene copolymer outer shell with integral handle
- Side catches and seal for complete weather-tightness.
- Impact and hydrocarbon-resistant.
- High-security numbered locks (100 different lock numbers can be provided to special order).
- Two double-sided tool trays with elastic tool holders.
- Large compartmented bottom section.
- Volume : 29 dm³.
- Internal dimensions : 525 x 310 x 185.
- Overall dimensions : 570 x 415 200

⚖ : 5 kg.



Universal seal-tight case with mounting plate

BV.29P

- General specification as BV.29, but with a plate (BV.C1A2) with a lock for securing to a wall, inside a vehicle or on a motorbike.

⚖ : 5.3 kg.

Service cases

Workstation trolley and service case holder

BV.C1

• Trolley only, compatible with case BV.29P or other case if fitted with plate BV.C1A1.
• Wheel, frame and multi-functional head assembly.
• Easy to use.
• Anti-tilt system.
• Case locks onto trolley.
• Max. capacity : 35 kg.
• Working height : 570 mm (+/- case).
• Folded length : 850 mm.
• Wheel base : 440 mm
• Wheel diameter : 150 mm.
⚖ : 4.5 kg.

	Description
BV.C1A1	Plate
BV.C1A2	Plate

Plate

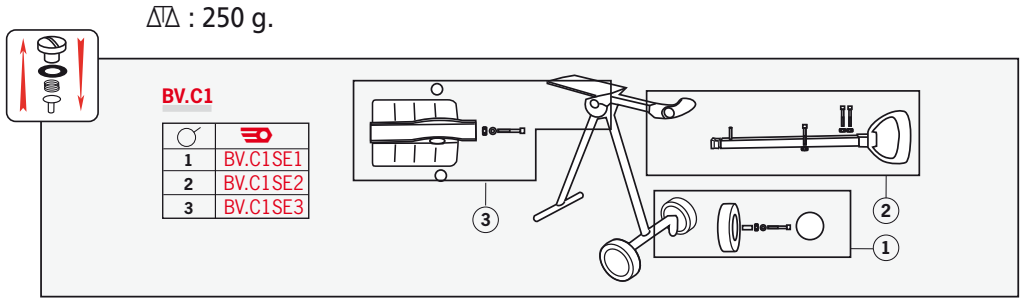
BV.C1A1

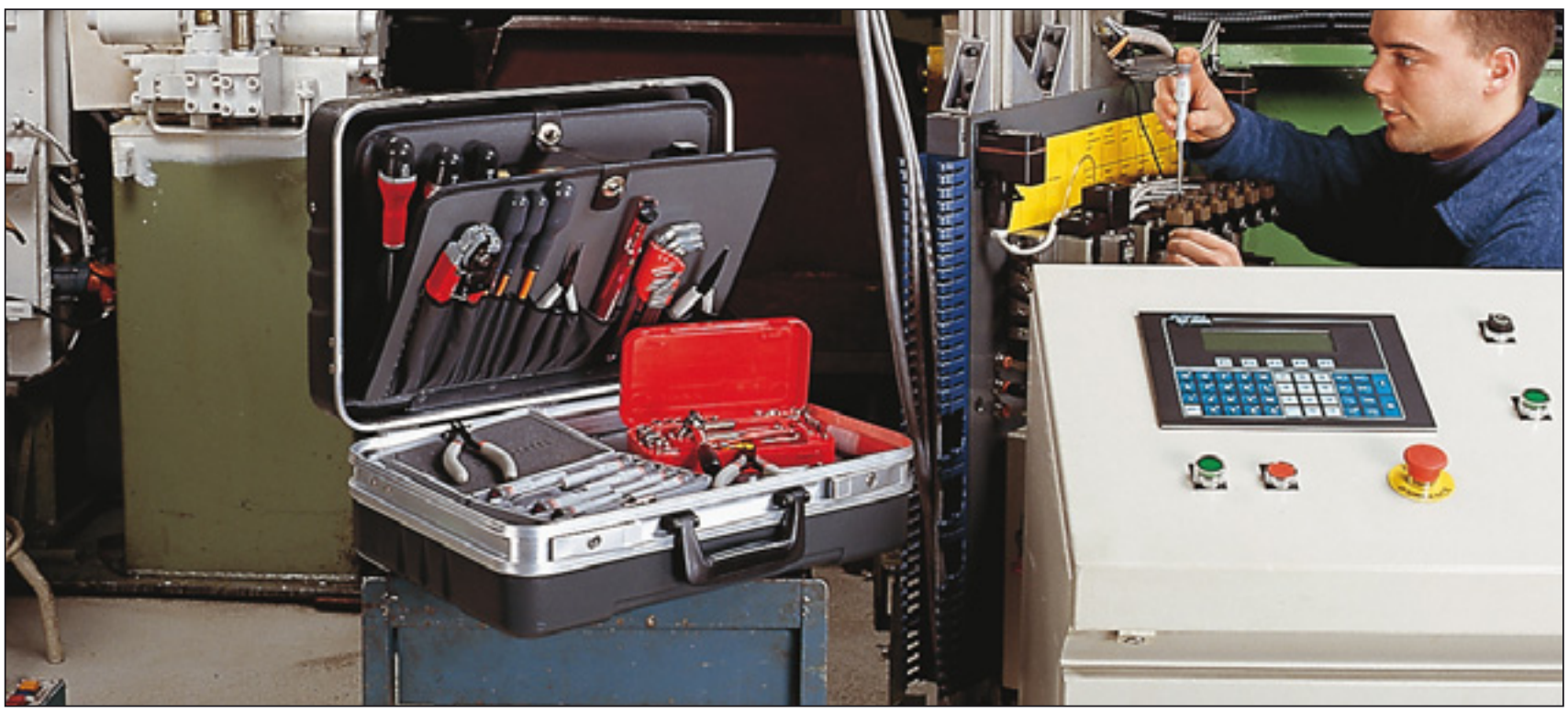
• Universal plate fitting all cases, for attachment to trolley BV.C1.

Plate

BV.C1A2

• Additional mounting plate for BV.29P providing additional attachment options (wall, motorbike, car).
⚖ : 250 g.





Roller cases

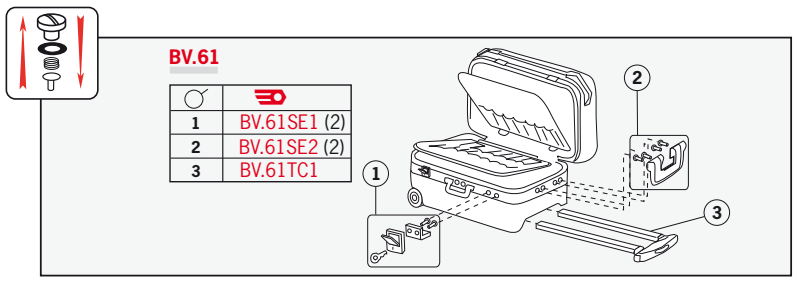
Fitters roller container case

BV.61

- High Density Polyethylene (HDPE).
- Integral lockable folding trolley system
- 2 removable intermediate panels for optimum, tidy storage.
- Large volume bottom section for bulky items and/or spare parts.
- 2 handles providing 2 carrying options.
- Increased stability.
- 3 small component containers.
- Stiffeners.
- Large diameter wheels.
- Numbered safety key locks (20 different lock numbers can be provided to special order).
- Max. capacity : 30 kg.
- Length when open : 850 mm.
- Internal dimensions : 470 x 390 x 347 mm.
- Overall dimensions : 550 x 440 x 365.

⚖ : 8.5 kg.

	Description
BV.61BP	Set of 3 plastic boxes

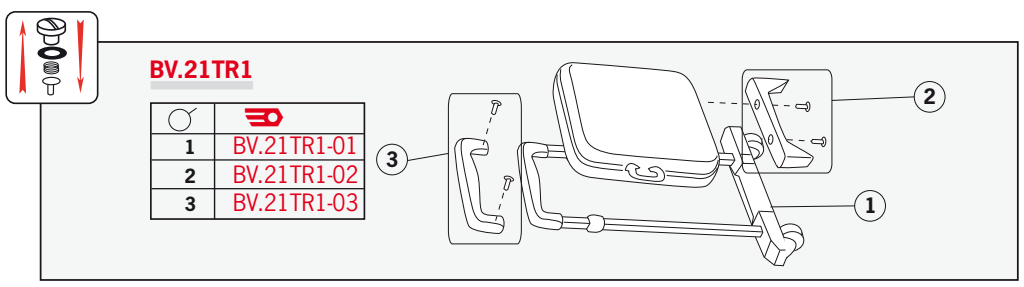


Fitters service roller case

BV.21TR1

- Lockable, folding steel trolley system.
- Modular tool storage with sealed compartments.
- Foam dividers for holding tools in place during transport and doubling as knee protection.
- 2 small component containers.
- Numbered safety key locks (20 different lock numbers can be provided to special order).
- Max. capacity : 25 kg.
- Internal dimensions : 500 x 360 x 165 mm.
- Overall dimensions : 530 x 390 x 180 mm, excluding trolley system.

⚖ : 5.2 kg.

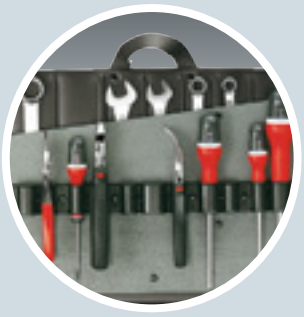


Leather cases

Leather cases

Strong leather and convenient plastics for long life and user comfort.

Quality finish.


Optimum storage.

Comfort.

Security.

Fold-down front case

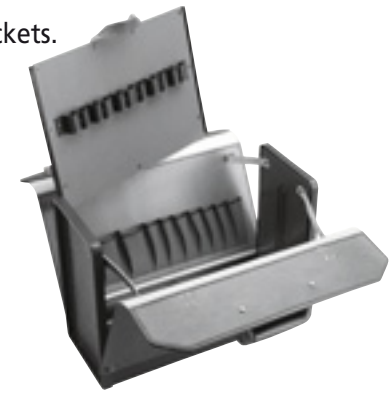
BV.7A

• Removable double-sided tilting panel 400 x 280 mm, comprising :
- one side for tool storage and the other with a pocket for A4 documents and miscellaneous items.
- back panel with 11-slot tool holder.
- front flap with tool holder.
- galvanized steel base.
• Stand-off feet.
• Dimensions : 445 x 330 x 185 mm.
⚖ : 3.8 kg.

Dual access case

BV.6A

• Removable middle panel 400 x 280 mm. Slots on both sides will hold a total of 22 tools.
• Front and rear flaps opening to 45° with tool storage pockets.
• ABS base and sides.
• Dimensions : 430 x 350 x 195 mm.
⚖ : 3.15 kg.



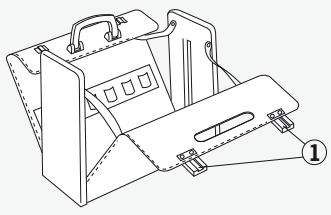
Drawer case

BV.5A

• Sliding drawers, one with 4 trays partitionable into 1 to 8 compartments, giving instant access to contents : 375 x 116 x 40 mm.
• Removable tray with handle.
• Tilting rear panel with 22-slot tool holder.
• Dimensions : 425 x 320 x 215 mm.
⚖ : 4.6 kg.

BV.5A-BV.6A-BV.7A

1	BV.5-04 (2)



Case

640083

- Dimensions : 430 x 290 x 180 mm.
- Rear panel with 11-slot tool holder.
- Centre compartment for bulky items.
- Front flap with 9-slot tool holder.

⚖ : 2.6 kg.

Leather bags

Compact bag

BV.100

- Ideal for tools for on-site repairs to machinery.
- Very strong and resistant to aggressive environments.
- Dimensions : 350 x 120 x 120 mm.

⚖ : 510 g.

Leather tool bag

703232

- Hide tool bag with shoulder strap.
- Reinforced sides for increased stiffness.
- Nickel-plated rivets.
- Closed by 3 buckles.
- Dimensions : 405 x 145 x 125 mm.

⚖ : 880 g.

Plumbers bag

BV.105

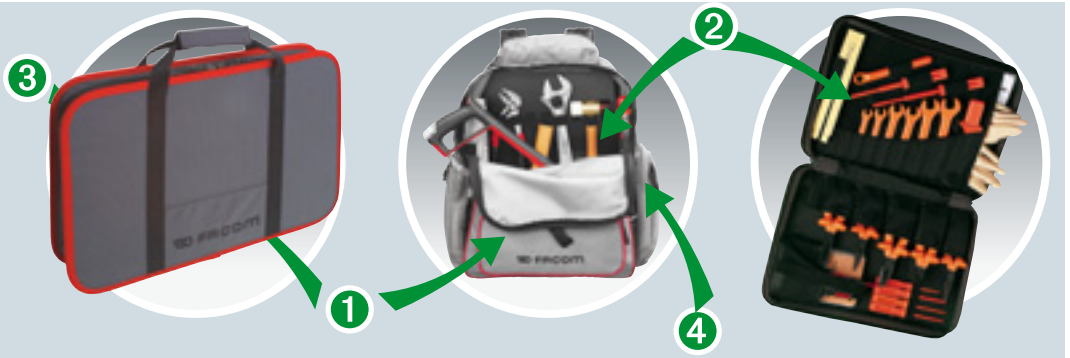
- High strength, ideal for carrying bulky tools safely.
- Wide adjustable shoulder-strap.
- Fastened by buckles.
- Reinforced base with protective studs.
- Dimensions : 500 x 160 x 160 mm.

⚖ : 1.3 kg.

Light maintenance soft cases

Soft cases and back-packs

❶ Highly resistant materials.
❷ Practical storage.
❸ Sturdy carrying straps.
❹ Additional pockets.



Soft case

BV.16

- Resistant to hydrocarbons.
- Double-ended zip fastener can be secured by padlock (not supplied).
- A4 document holder.
- 29 tool slots and one compartment for a box or measuring instrument, 220 x 120 x 50 mm max.
- Load capacity : 10 kg.
- Stiff sides hold tools in position.
- Dimensions : 440 x 315 x 75 mm.

⚖ : 920 g.

Back-pack

BV.17

- Sized for easy carrying, with adjustable waist and shoulder straps.
- Adjustable tool-retaining straps.
- 2 side pockets 220 x 110 x 40 mm.
- 1 zip-fastened back pocket 200 x 100 x 20 mm.
- 1 top pocket 190 x 100 x 35 mm.
- Strap for attaching ropes or long objects.
- Base designed for carrying a toolbox or bulky items.
- Padlock option (padlock not supplied).
- Load capacity : 20 kg.
- Dimensions : 530 x 450 x 220 mm.

⚖ : 1.3 kg.

Chests for roller cabinets

Drawer chests

See these products on p. 66

Compatible with the Facom modular storage system

A WIDE RANGE OF APPLICATIONS

Compatible with roller cabinets

Stackable (BT.74TRA)

Roller-mounted (JET.CR4GXL)

Dedicated "construction" chest (BT.28)

JET.XL red four-drawer chest

JET.C4XL

- All the advantages of the JET.XL range.
- Drawer sizes :
- 3 drawers 60 mm high.
- 1 drawer 130 mm high.
- Overall dimensions (including worktop) : L.780xD.510xH.470 mm.
- Effective drawer dimensions : L.569xD.421xH.60/130.
- Drawer capacity : 20/25 kg.
- Compatible with the FACOM modular storage system.
- Able to receive removable drawer partitions (not included).
- Stackable on JET.XL. roller chest or cabinet (kit included).
- Red 3020.
- ⚖ : 45.5 kg.

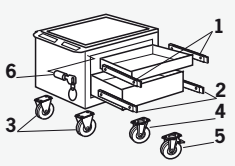
JET.XL grey four-drawer chest

JET.C4GXL

- All the advantages of the JET.XL range.
- Drawer sizes :
- 3 drawers 60 mm high.
- 1 drawer 130 mm high.
- Overall dimensions (including worktop) : L.780xD.510xH.470 mm.
- Effective drawer dimensions : L.569xD.421xH.60/130.
- Drawer capacity : 20/25 kg.
- Compatible with the FACOM modular storage system.
- Able to receive removable drawer partitions (not included).
- Stackable on JET.XL. roller chest or cabinet (kit included).
- 9006 grey.
- ⚖ : 45.5 kg.

JET.C4XL, JET.C4GXL

1	JET2.13	4	2092.09
2	JET2.14	5	2092.10
3	2092.11	6	2840.17



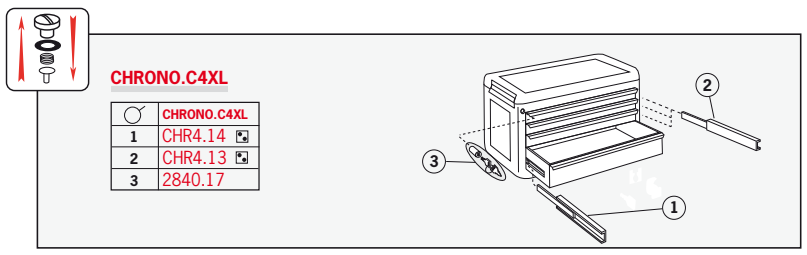
Chests for roller cabinets

CHRONO.XL four-drawer chest

CHRONO.C4XL

- Same specification as the CHRONO.XL roller cabinet range.
- Drawer sizes :
- 3 drawers 60 mm high.
- 1 drawer 130 mm high.
- Overall dimensions (including worktop) : 735 x 510 x 480 mm.
- Effective drawer dimensions : L. 569 x D. 421 x H. 60/130.
- Drawer capacity : 20 kg.
- Compatible with the FACOM modular storage system.
- Able to receive removable drawer partitions (not included).
- Stackable on CHRONO.XL. roller cabinets with connection kit CHRONO.C4K1 (not included).
- Converts to a roller chest with wheel kit CHRONO.C4K2 (not included).
- Colour : RAL 3020 red cabinet and 9006 grey drawers.

⚖ : 41 kg.



Connection kit

CHRONO.C4K1

- For securely attaching the CHRONO.C4XL chest on top of a CHRONO.XL roller cabinet.

⚖ : 1.7 kg.

Wheel kit

CHRONO.C4K2

- For converting chests CHRONO.XL or JET.XL into roller chests.
- Comprising a set of wheels (2 fixed, 2 castors, one with a brake) and a handle.

⚖ : 5.4 kg.

Maintenance chests

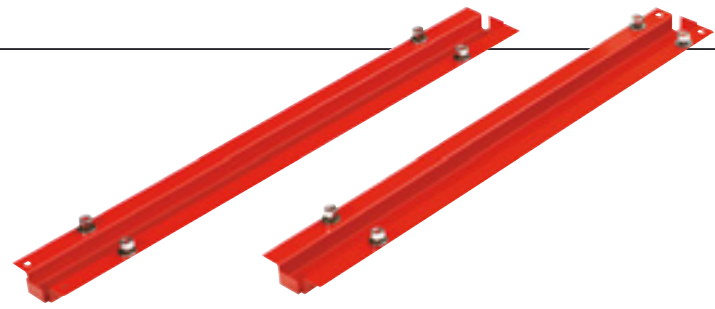
Wheel kit

BT.74K2

- For converting BT.74 series chests to mobile units
- Wheels ∅ 100 mm, 2 fixed and 2 castors, one with brake.
- Mounting screws supplied.

⚖ : 3 kg.

Stacking kit



BT.74K1

• For stacking and securing two BT.74TRA series chests
⚖ : 1.48 kg.

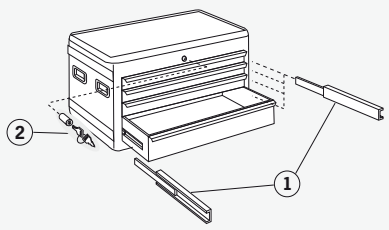
Four-drawer chest

BT.74TRA

• ABS worktop.
• 3 drawers 50 mm high.
• 1 drawer 100 mm high.
• Drawer dimensions : 534 x 358 mm.
• 4 lifting handles on the sides of the chest.
• Dimensions : 700 x 450 x 445 mm.
• RAL 3020 red.
⚖ : 30 kg.

BT.74TRA

1	SER.5-03
2	2420.04



Six-drawer chest

BT.66

• 1 drawer 110 mm high (x 297 x 534 mm).
• 2 drawers 50 mm high (x 297 x 534 mm), 1 with partitions
• 2 drawers 50 mm high (x 297 x 194 mm).
• 1 drawer 50 mm high (x 297 x 82 mm).
• 1 top compartment 45 mm high.
• Lid closure locks drawers against opening.
• Central key-locking.
⚖ : 27 kg.

Four-drawer chest

BT.64

• 3 drawers 50 mm high (x 297 x 534 mm), 2 with partitions.
• 1 drawer 110 mm high (x 297 x 534 mm).
• 1 top compartment 45 mm high.
• Lid closure locks drawers against opening.
• Central key-locking.
⚖ : 26 kg.

Maintenance chests

Three-drawer chest

BT.23L

- 3 drawers 50 mm high (475 x 185 mm).
- 1 top compartment 535 x 220 x 100 mm.
- Padlock clasp (padlock not supplied).
- Dimensions : 550 x 230 x 315 mm.

⚖ : 12 kg.

Two-drawer chest

BT.22L

- 2 drawers 50 mm high (475 x 185 mm).
- 1 top compartment 535 x 220 x 100 mm.
- Padlock clasp (padlock not supplied).
- Dimensions : 550 x 230 x 254 mm.

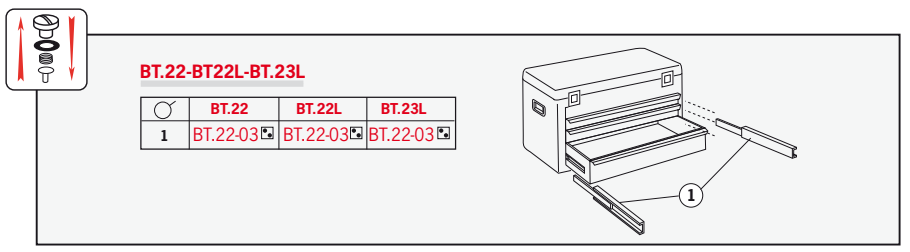
⚖ : 10 kg.

Two-drawer chest

BT.22

- 2 drawers 50 mm high (404 x 185 mm).
- 1 top compartment 465 x 220 x 100 mm.
- Padlock clasp (padlock not supplied).
- Dimensions : 480 x 230 x 254 mm.

⚖ : 8 kg.



BT.22-BT22L-BT.23L

	BT.22	BT.22L	BT.23L
1	BT.22-03	BT.22-03	BT.22-03

Three-drawer chest

BT.63

- 3 drawers 50 mm high (x 297 x 534 mm), 2 with partitions.
- ABS-covered top.
- Central key-locking.

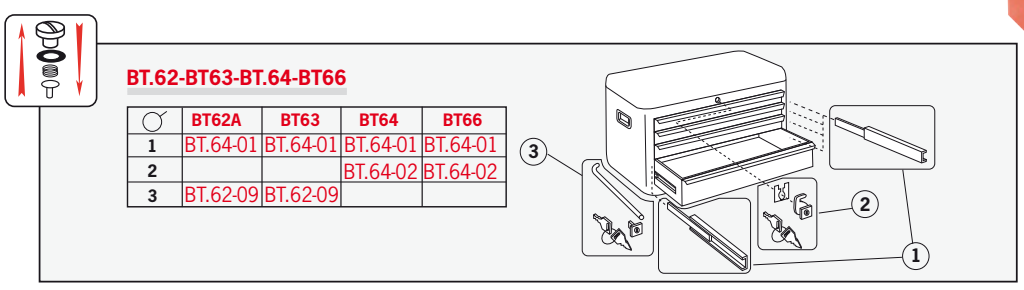
⚖ : 16 kg.

Two-drawer chest

BT.62A

- 1 drawer 50 mm high (x 297 x 534 mm) with partitions.
- 1 drawer 110 mm high (x 297 x 534 mm).
- ABS-covered top.
- Central key-locking.

⚖ : 15 kg.



BT.62-BT63-BT.64-BT66

	BT62A	BT63	BT64	BT66
1	BT.64-01	BT.64-01	BT.64-01	BT.64-01
2			BT.64-02	BT.64-02
3	BT.62-09	BT.62-09		

Cart

2701

- For BT.66 - BT.63 - BT.62 and BT.28.
- Wheels ∅ 100 mm.
- Middle shelf for bulky tools.
- Dimensions : 804 x 670 x 427 mm.

⚖ : 20 kg.

Chest trolley

2220A

- Can carry chests BT.63/64/66/28.
- Wheels ∅ 100 mm, 2 fixed and 2 castors.
- Dimensions : 860 x 430 x 190 mm.

⚖ : 12 kg.

"Construction" chests

"Construction" chests

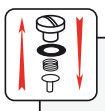
BT.28

- Strong chest for carrying heavy tools.
- Capacity : 80 kg.
- Ideal for building-site vehicles.
- Side handles.
- Padlocking option.
- Comprising :

- 1 drawer 38 mm high (x 537 x 314 mm)
- 2 drawers 58 mm high (x 537 x 314 mm)
- 1 drawer 78 mm high (x 537 x 314 mm).

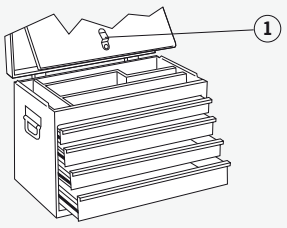
- Dimensions : 615 x 385 x 392 mm.

⚖ : 45 kg.



BT.28

1	BT.28FERM



4. Wrenches

Combination wrenches 128

Standard series 128
Fast series 132
Compact series 133
Offset series 134
Power series 135

Ratchet wrenches 136

Ratchet combination wrench series 136
Short ratchet combination wrench series 137
Hinged ratchet combination wrench series 139
Ratchet ring wrench series 140
15° angle head ratchet ring wrench series 141
Ratchet bit driver series 142

Open-end wrenches 143

Standard series 143
Low-profile series 144
Compact series 145
Power series 146

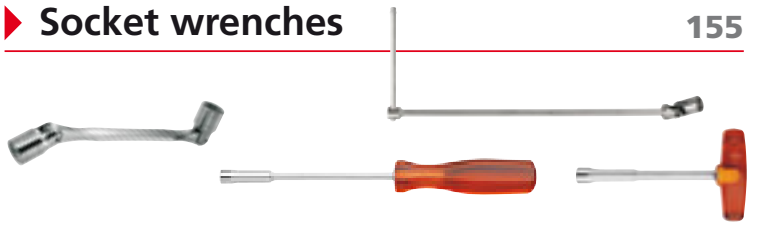
Ring wrenches 147

Standard series 147
Half-moon series 149
Power series 150
Slogging wrench series 151

Socket wrenches 152

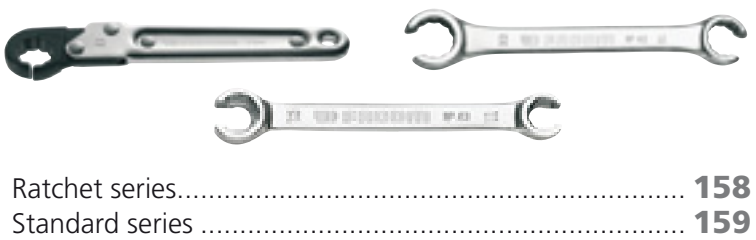
Standard series 152
Box wrench series 153
Tee socket series 154

Socket wrenches 155



Hinged series 155
Universal joint series 156
Nut spinner series 156

Flare-nut wrenches 158

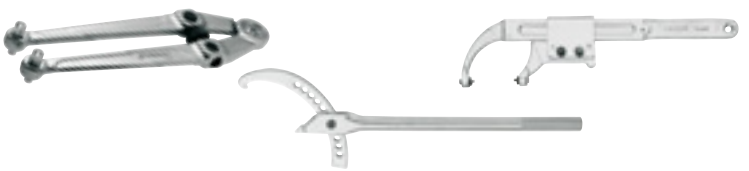


Ratchet series 158
Standard series 159

Variable opening wrenches 160

Adjustable series 160
Monkey wrench series 162
Locking series 162

Hook and pin wrenches 163



Series for side-slot nuts 163
Series for side-hole nuts 163
Series for top-hole nuts 165

NEW

"JP" sleeve set

Your wrenches always close to hand

Advantages

- Immediately find the right wrench
- No more tools left on site
- Super compact

N 130

NEW

Ratchet wrenches: a comprehensive range

The advantages of a ratchet wrench

Advantages

- Fast
- Compact
- Manoeuvrable

N 136

NEW

The combination wrench reinvented for you

Advantages

440

Manoeuvrable…

Precise…

Powerful…

- **More control**
- **Better ring head accessibility**
- **More efficient open-end**
- **More power, delivered safely**

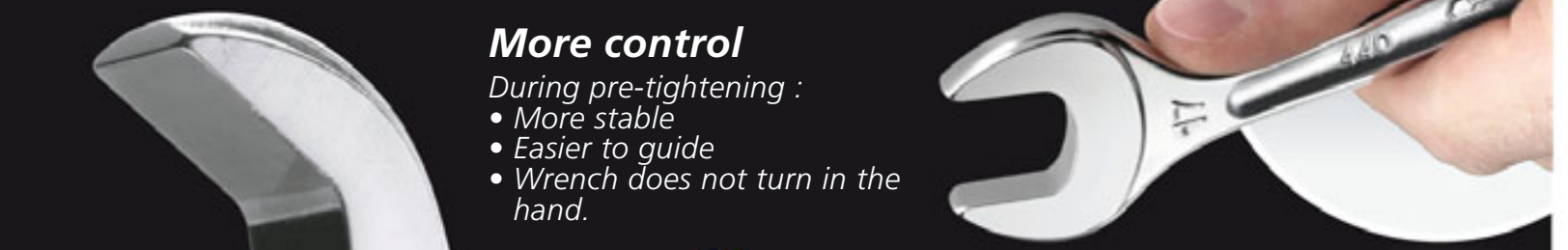
N 128

Standard series

440

THE "NEW GENERATION"
"COMBINATION WRENCH"

THE COMBINATION WRENCH REINVENTED FOR YOU



More control

During pre-tightening :
- *More stable*
- *Easier to guide*
- *Wrench does not turn in the hand.*

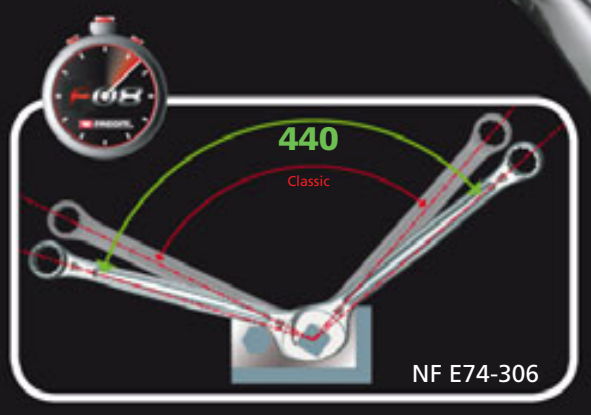
More comfortable

- *Variable handle cross section doubles the surface in contact with the hand.*

Painless torque application

Better ring head accessibility

- *Ring head provides better clearance for reaching recessed or closely spaced nuts.*

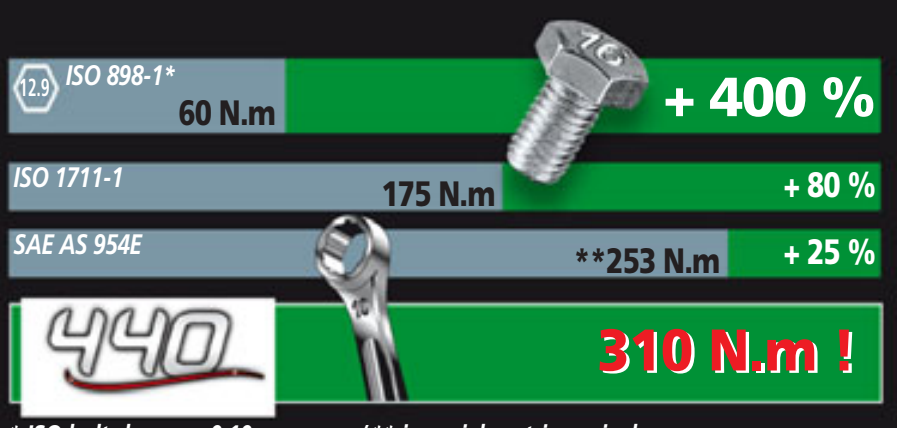


More efficient open-end

The open-end / handle geometry provides 20 % better accessibility.

More power, delivered safely

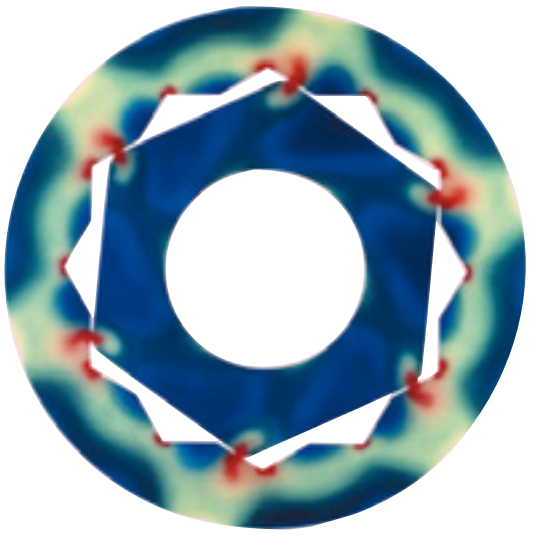
- *Meets the requirements of aerospace standard SAE AS954E.*
- *Up to 400 % spare capacity for tightening high-strength bolts.*
- *Tightening torques guaranteed significantly above NF ISO 1711-1 specifications.*

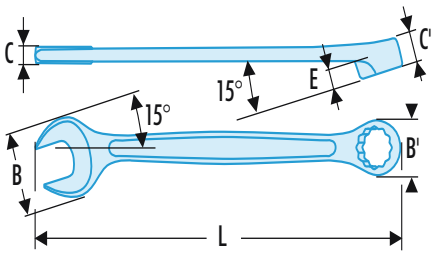


** ISO bolt class, μ = 0.10, see page / ** imperial-metric equivalence.*

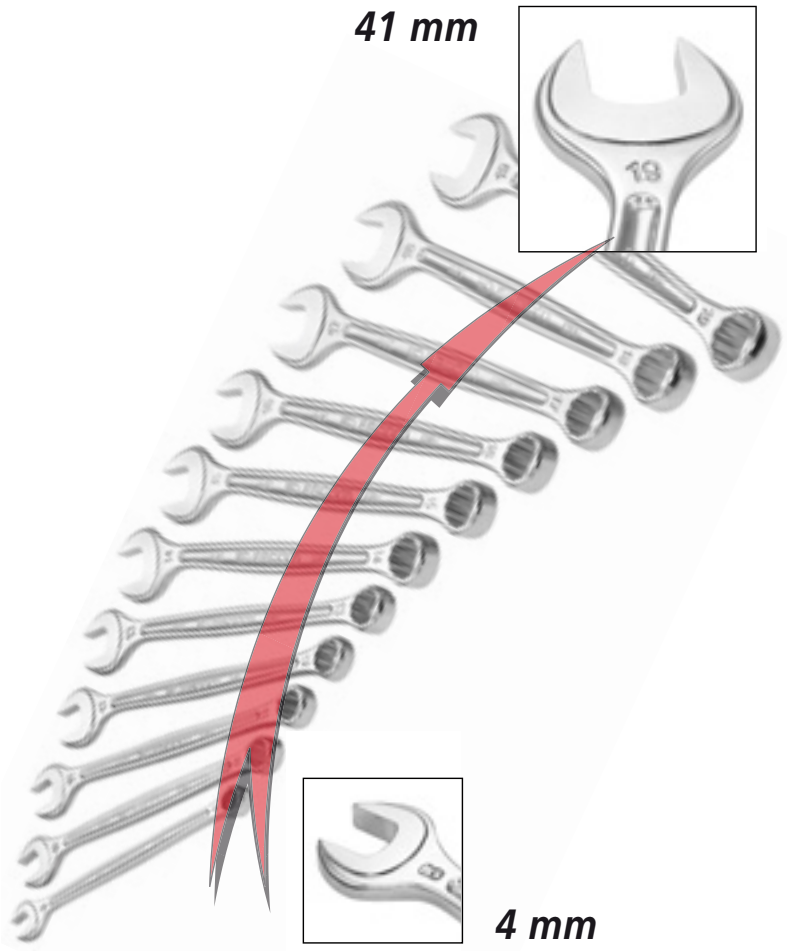
440 OGV® metric and inch combination wrenches

▷ Industrial and automotive : ISO 691, NF ISO 691, ISO 7738, NF ISO 7738, ISO 3318, NF ISO 3318, ISO 1711-1, NF ISO 1711-1, NF E74-306.
▷ Aerospace : SAE AS 954E.
• Wide range of openings :
- Metric sizes : 4 to 41 mm.
- Inch sizes : 1/4" to 1 1/2".
• High mechanical performance combined with compact design complying with aeronautical standards :
• Ring head :
- Ring clearance (dimension E) designed for better access to recessed or closely spaced screws.
- 12-point OGV profile for a high torque without damaging the nut / prefix H : 6-point ring.
- Angled at 15°.
• Open-end :
- Optimised open end / handle geometry for increased accessibility.
- Ground contact faces.
- Satin chrome finish.





mm	"	C' mm	B' mm	L mm	B mm	C mm	E mm	g
440.4H		3,5	7,8	106	10	3	2,1	7
440.5H		6,0	9,2	115	13,3	3,6	3,1	16
440.5,5H		6,0	9,2	115	13,3	3,8	3,1	17
440.6	440.1/4	6,0	10,0	115	14,1	3,8	3,1	17
440.7		6,2	11,2	122	17,2	3,9	3,4	21
440.8	440.5/16	6,7	12,8	133	19,2	4,7	3,5	29
440.9	440.11/32	7,1	14,2	138	21,2	4,7	3,9	34
440.10	440.3/8	7,6	15,0	145	23	5,2	4,2	42
440.11	440.7/16	8,1	16,9	155	24,5	5,5	4,6	49
440.12		8,4	18,0	162	27	5,8	4,4	57
440.13	440.1/2	8,6	19,3	170	28,7	6,1	4,8	70
440.14	440.9/16	9,5	21,1	180	31	6,4	5,7	82
440.15		10,0	22,2	185	32,6	6,8	5,9	95
440.16	440.5/8	10,5	23,9	195	35,6	7,3	6,4	113
440.17	440.11/16	10,9	25,3	202	37	7,6	6,5	127
440.18		11,4	26,0	208	38,7	8,1	7,2	146
440.19	440.3/4	11,9	27,8	216	41,2	8,3	7,2	167
440.20	440.13/16	12,3	29,5	224	43,1	8,6	6,3	184
440.21		12,8	30,9	233	45,4	8,8	7,8	205
440.22	440.7/8	13,3	32,3	248	46,9	9	8,3	230
440.23		13,8	33,6	257	49	9,3	8,7	254
440.24	440.15/16	14,2	35,0	267	51	9,7	8,9	289
440.25	440.1'	14,7	36,4	274	53	9,9	9,4	311
440.26		15,1	37,8	285	55,5	10,1	9,8	342
440.27	440.1'1/16	15,6	39,2	295	58	10,4	8,9	376
440.28	440.1'1/8	16,1	40,6	305	60,7	10,7	10,6	416
440.29		16,6	42,0	320	63	11,2	10,8	473
440.30		17,1	43,5	340	65	11,5	11,2	531
440.32	440.1'1/4	18,0	46,1	355	68	12,5	11,5	639
440.33	440.1'5/16	18,5	47,0	380	69,8	12,8	11,8	716
440.34		19,0	48,9	390	72	13	12,8	741
440.35	440.1'3/8	19,5	51,0	430	74,3	13,5	12,8	888
440.36	440.1'7/16	20,0	53,0	440	76	14	13,2	941
440.38	440.1'1/2	22,0	56,0	450	80	15,2	14,1	1128
440.41		23,0	58,3	460	85	16	14,7	1286



New 440 combination wrench

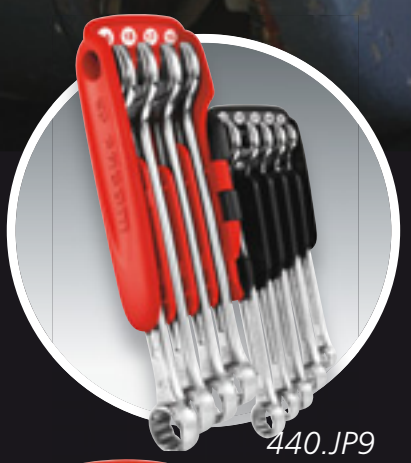
UNCOMPROMISING PRODUCTION AND INSPECTION

- *Facom has designed a wrench that is optimised for users and their needs : The optimised shape of the 440 wrench combines power, comfort and agility. In order to produce this complex shape, Facom has developed a special manufacturing process involving new technologies.*
- *Each production batch undergoes dimensional inspection, as well as static and fatigue mechanical performance, wear and corrosion resistance testing.*

Endurance test under load

New

440.JP9 - 440.JP12
9 or 12 piece combination wrench clip set



440.JP9

440.JP12

YOUR WRENCHES WITH YOU AT ALL TIMES

Practical : save time

- *Easy, clear wrench identification.*
- *Quick, foolproof tool storage.*
- *No more loose wrenches in your tool box.*
- *Belt hook.*
- *Hole for wall hook.*

Safe : no more lost wrenches.

- *Missing wrenches readily identified : no more tools left on site at the end of the job.*
- *Durable wrench locking system.*

Ultra compact

Total overall dimensions :
219x66x38 mm for 440.JP9.
280x87x47 for 440.JP12.

Easy to store.

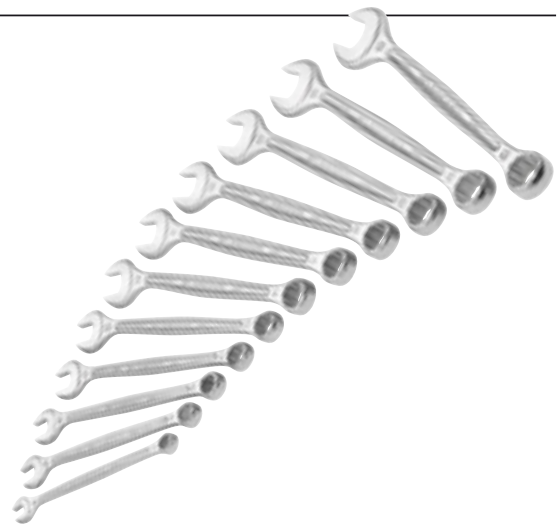
- *In any storage compartments of any Facom tool box (BT11, BT13, Probox, etc.).*
- *In any roller cabinet drawer.*

440 Clip set of OGV® combination wrenches

- Quickly stored, quickly identified, always with you.
- Chemical product-resistant.

	mm	g
440.JP9	8 - 10 - 11 - 12 - 13 - 16 - 17 - 18 - 19	940
440.JP12	7 - 8 - 10 - 11 - 12 - 13 - 16 - 17 - 18 - 19 - 22 - 24	1548

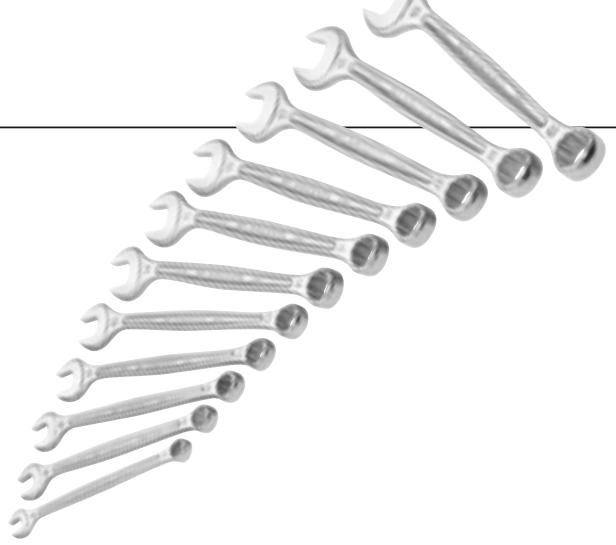
440 Metric OGV® combination wrench sets



- Supplied as box, roll or panel sets.

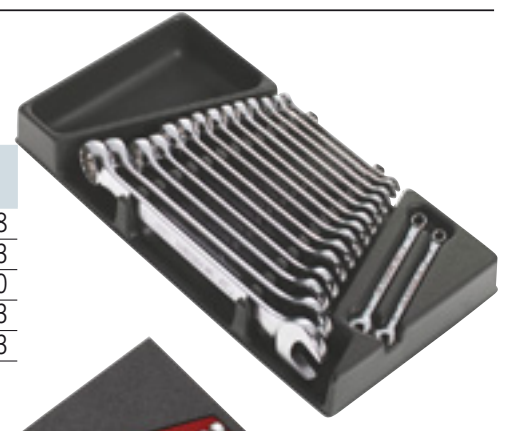
				mm	g
440.JN8		•		8 - 10 - 11 - 13 - 17 - 19 - 22 - 24	1003
440.JN8T	N.38A-8C			8 - 10 - 11 - 13 - 17 - 19 - 22 - 24	1133
440.JE9		•		8 - 9 - 10 - 11 - 12 - 13 - 14 - 17 - 19	657
440.JE11		•		7 - 8 - 10 - 11 - 12 - 13 - 14 - 16 - 17 - 18 - 19	903
440.JE16		•		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17- 18 - 19 - 21 - 22 - 23 - 24	1989
440.JE16T	N.38A-17A			8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24	2164
440.JE18		•		6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24	1989
440.JE25				6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 29 - 30 - 32 - 34	5545
440.P25M			•	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 29 - 30 - 32 - 34	5545

440 Inch OGV® combination wrench sets



			mm/"	g
440.JU6T	N.38A-6B		3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16	603
440.JU9		•	1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4	696
440.JU12		•	1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 15/16	1399
440.JU17T	N.38A-17		1/4 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8 - 15/16 - 1" - 1 1/16" - 1 1/8" - 1 1/4"	3350

440 OGV® combination wrench sets in thermo-formed modules



- Compatible with the FACOM modular storage system (all roller cabinets).
- MOD.440-1XL and MOD.440-2XL : to fit XL roller cabinets.
- MOD.440-1, MOD.440-2 and MOD.440-4 : to fit all roller cabinets.

		mm/"	g
MOD.440-1XL	PL.313	6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21- 22 - 24	1938
MOD.440-1	PL.670	6 - 7- 8 - 9 - 10 - 11- 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 22 - 24	1733
MOD.440-2XL	PL.671	27 - 29 - 30 - 32 - 34	2920
MOD.440-2	PL.314A	27 - 29 - 30 - 32	1733
MOD.440-4	PL.673	1/4 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16- 3/4 - 13/16 - 7/8 - 15/16	1593

440 OGV® combination wrench sets in foam modules

- Compatible with the FACOM modular storage system (XL roller cabinets).

		mm/"	g
MODM.440-1	PM.MOD440-1	6 - 7- 8 - 9 - 10 - 11- 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 24	1868
MODM.440-2	PM.MOD440-2	27 - 29 - 30 - 32 - 34	2855

Ratchet wrenches

For our ratchet wrench range, see section 4, page 136

Fast series

40R - Ratchet-effect combination wrench

TWICE AS FAST

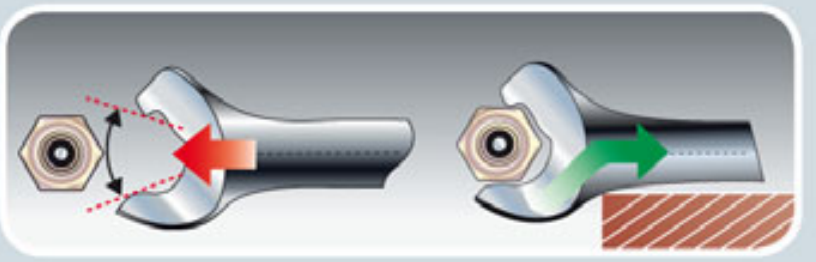
Ratchet effect.

- *Firm pressure on fastener flats.*
- *Rewind action without removing the tool.*

3 drive surfaces.

- *Less wear.*
- *Less risk of tool slippage.*

Easier positioning and withdrawal.

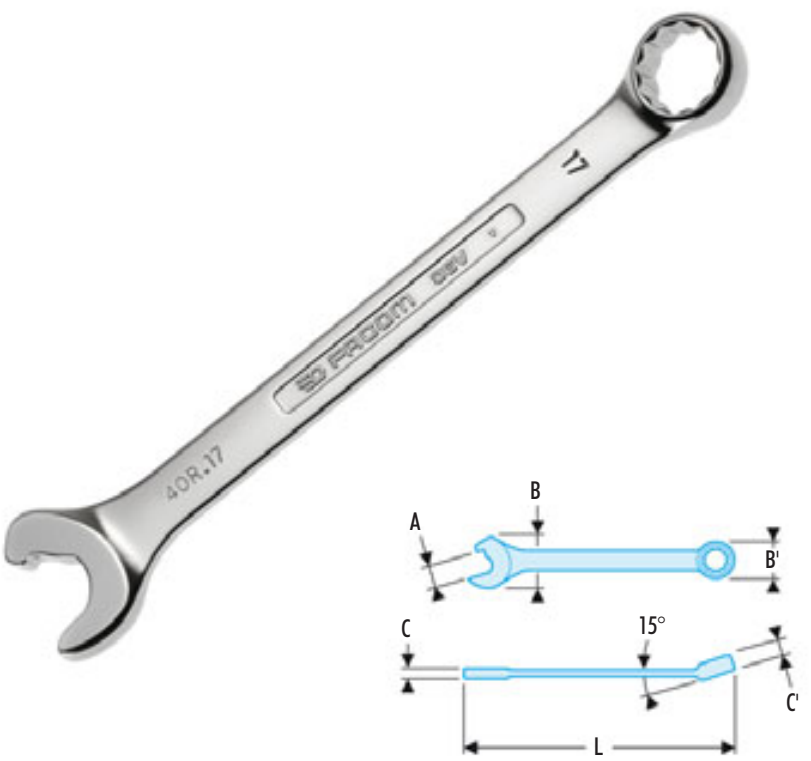


40R Metric fast combination wrenches

▷ ISO 7738, DIN 3113, NF ISO 7738.

- Metric sizes 8 to 24 mm.
- 12-point OGV® ring angled at 15°.
- Satin chrome finish.

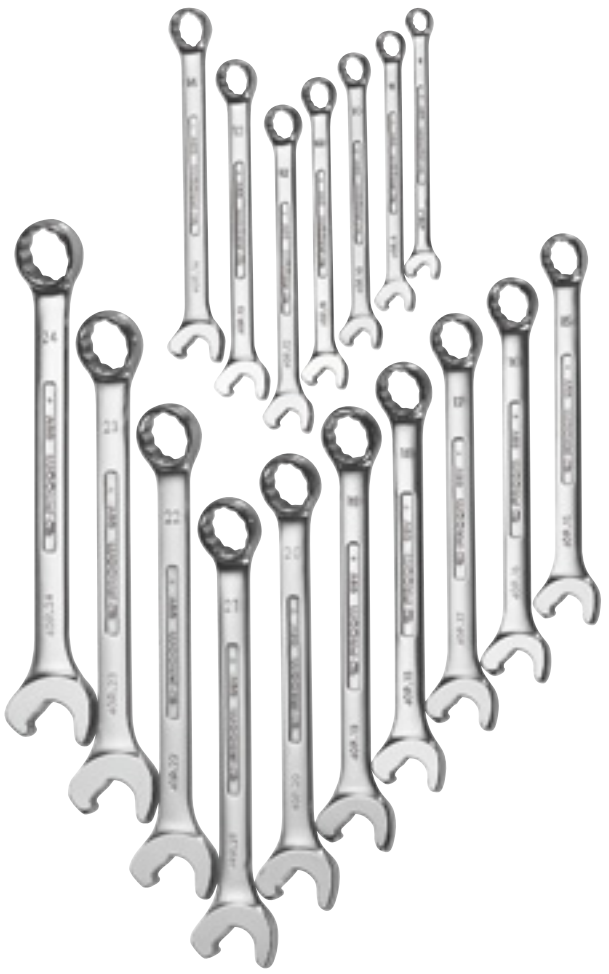
	A mm	B x B' mm	C x C' mm	L mm	g
40R.8	8	18,5 x 12,9	4,3 x 6	126	26
40R.9	9	20,5 x 14	4,3 x 6,1	133	29
40R.10	10	22,9 x 15,9	4,8 x 6,6	141	39
40R.11	11	24,9 x 17	5,1 x 7	148	45
40R.12	12	26,8 x 18,4	5,3 x 7,5	157	56
40R.13	13	28,8 x 19,8	5,6 x 8	165	61
40R.14	14	30,6 x 21,2	6 x 8,5	172	73
40R.15	15	32 x 22,4	6,6 x 9,2	179	79
40R.16	16	34,8 x 23,8	6,9 x 9,8	187	93
40R.17	17	36,7 x 25	7 x 10,3	193	113
40R.18	18	38,5 x 26,4	7,4 x 10,9	201	120
40R.19	19	40,9 x 29,4	7,6 x 11,3	209	140
40R.20	20	42,5 x 29,4	8 x 11,6	217	165
40R.21	21	45 x 30,7	8,1 x 11,9	223	182
40R.22	22	47 x 32	8,2 x 12,3	240	205
40R.23	23	48,5 x 33,4	8,4 x 12,6	250	236
40R.24	24	50,5 x 34,7	8,5 x 12,9	260	260



40R Metric fast combination wrench sets

• Supplied as box, roll or module sets.

				mm	kg
40R.JE9	•			8-9-10-11-12-13-14-17-19	0,607
40R.JE17	•			8-9-10-11-12-13-14-15-16-17-18-19-20-21-22-23-24	1,947
40R.JE9T			N.38A-9E	8-9-10-11-12-13-14-17-19	0,737
MOD.40R		PL.352A		8-9-10-11-12-13-14-15-16-17-18-19-22-24	1,638



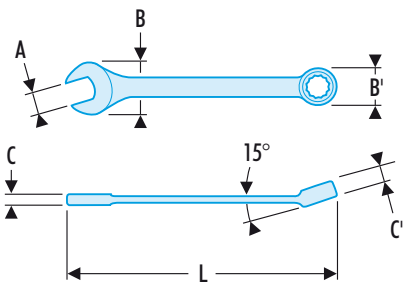
Compact series

39 Metric and inch short combination wrenches

▷ ISO 7738, NF ISO 7738.

• Short shank and compact heads.
• Ideal where access is restricted.
• Metric sizes from 3.2 to 17 mm.
• Inch sizes from 1/8" to 11/16".
• 12-point ring angled at 15°.
• H : 6-point ring angled at 15°.
• Satin chrome finish.

A mm	A"	L mm	6/12	B x B' mm	C x C' mm	g
39.3,2H	**39.1/8H**	77	6	10 x 7	3,1 x 3,1	9
39.4H	**39.5/32H**	77	6	10 x 8	3,1 x 3,1	9
39.5H	**39.3/16H**	82	6	11,8 x 9	3,5 x 4	10
39.5,5H	**39.7/32H**	84	6	11,8 x 9,5	3,5 x 4	10
39.6	**39.1/4**	90	12	15 x 10,4	4,1 x 5	13
39.7	**39.9/32**	90	12	15 x 11,5	4,1 x 5	13
39.8	**39.5/16**	94	12	17,2 x 12,5	4,5 x 5,8	18
39.9	**39.11/32**	98	12	19,4 x 14	4,8 x 6	25
39.10	**39.3/8**	103	12	21,5 x 15,3	5,1 x 6,4	30
39.11	**39.7/16**	109	12	23,7 x 16,8	5,3 x 6,8	35
39.12		127	12	26 x 18	5,5 x 7,5	47
39.13	**39.1/12**	141	12	28 x 19,5	5,8 x 8	54
39.14	**39.9/16**	147	12	30,2 x 20,8	6,0 x 8,5	70
39.15		152	12	32,3 x 22,1	6,4 x 9	80
39.16	**39.5/8**	158	12	34,4 x 23,6	6,7 x 9,6	90
39.17	**39.11/16**	165	12	36,5 x 25	6,9 x 10	100



Combination wrenches

39 Metric and inch short combination wrench sets

• Supplied as rack or roll sets.

	rack		mm/"	g
39.JP6	CK.67SJ1		8 - 10- 11 - 12 - 13 -14	285
39.JE9T		N.38A-9E	7 - 8 - 10 - 11 - 12 - 13 - 14 - 16 - 17	580
39.JE10T		N.38A-10A	3,2 - 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11	250
39.JE16T		N.38A-16A	3,2 - 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17	700
39.JU10T		N.38A-10A	1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16	250
39.JU14T		N.38A-16A	1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16	560

Offset series

41 Metric offset combination wrenches

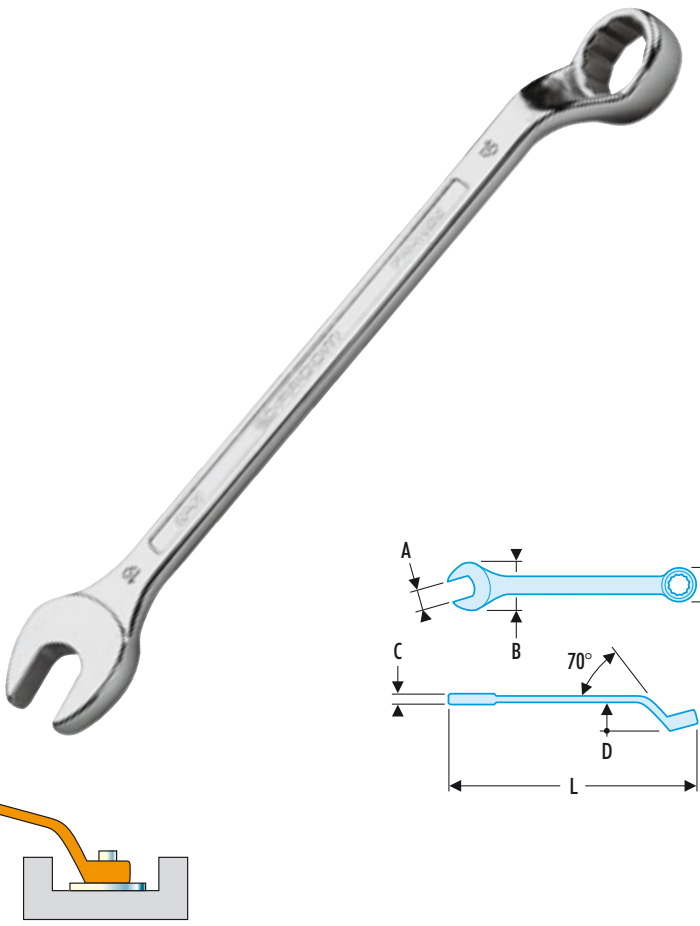
▷ ISO 7738, DIN 3113, NF ISO 7738.

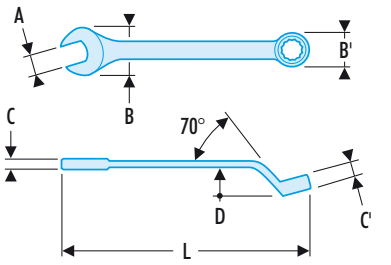
• 12-point ring offset to clear fingers or obstacles

• Metric sizes from 6 to 32 mm.

• Chrome finish.

	A mm	B x B' mm	C x C' mm	D mm	L mm	g
41.6	6	14,5 x 11	4 x 6	12,5	113	27
41.7	7	18,5 x 13	4,5 x 7	15	127	35
41.8	8	18,5 x 13	4,5 x 7	15	127	35
41.9	9	23,5 x 15,5	5 x 8	16,5	142	50
41.10	10	23,5 x 15,5	5 x 8	16,5	142	50
41.11	11	27,5 x 18,5	5,5 x 8,6	18,5	160	75
41.12	12	27,5 x 18,5	5,5 x 8,6	18,5	160	75
41.13	13	31,5 x 21,5	5,5 x 9	18,5	180	100
41.14	14	31,5 x 21,5	5,5 x 9	18,5	180	100
41.15	15	36,5 x 24,5	6,6 x 10,3	20,5	200	130
41.16	16	36,5 x 24,5	6,6 x 10,3	20,5	200	130
41.17	17	40,5 x 27	7,3 x 11,2	22	224	195
41.18	18	40,0 x 27	7,3 x 11,2	22	224	195
41.19	19	43,0 x 30	7,8 x 12,6	24	248	250
41.21	21	48,0 x 33	8,2 x 13	26,5	275	320
41.22	22	48,0 x 33	8,2 x 13	26,5	275	320
41.23	23	53,0 x 36	9 x 14	28,5	302	415
41.24	24	53,0 x 36	9 x 14	28,5	302	415
41.26	26	59,0 x 40	9,5 x 15	31,5	332	555
41.27	27	59,0 x 40	9,5 x 15	31,5	332	555
41.28	28	63,0 x 43,5	10 x 15,6	33,5	364	700
41.29	29	63,0 x 43,5	10 x 15,6	33,3	364	700
41.30	30	68,0 x 46,5	10,5 x 16,5	35,5	398	850
41.32	32	68,0 x 46,5	10,5 x 16,5	35,5	398	850

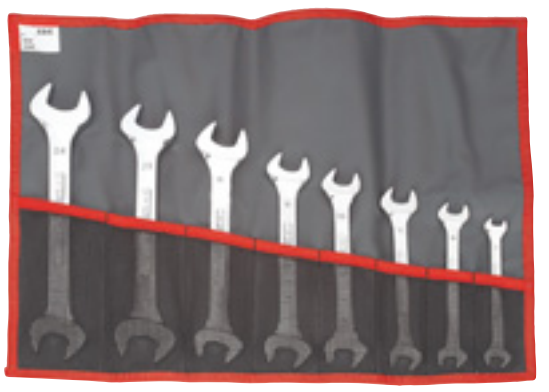




41 Metric offset combination wrench sets

• Supplied as box, roll and panel sets.

				mm	kg
41.JE9		•		8-9-10-11-12-13-14-17-19	0,930
41.JE18		•		6-7-8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24	3,017
41.JE9T	N.38A-9B			8-9-10-11-12-13-14-17-19	1,050
41.JE12T	N.38A-12B			8-10-11-12-13-14-16-17-18-19-21-22	2,095
41.P24M			•	6-7-8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24-26-27-28-29-30-32	9,380

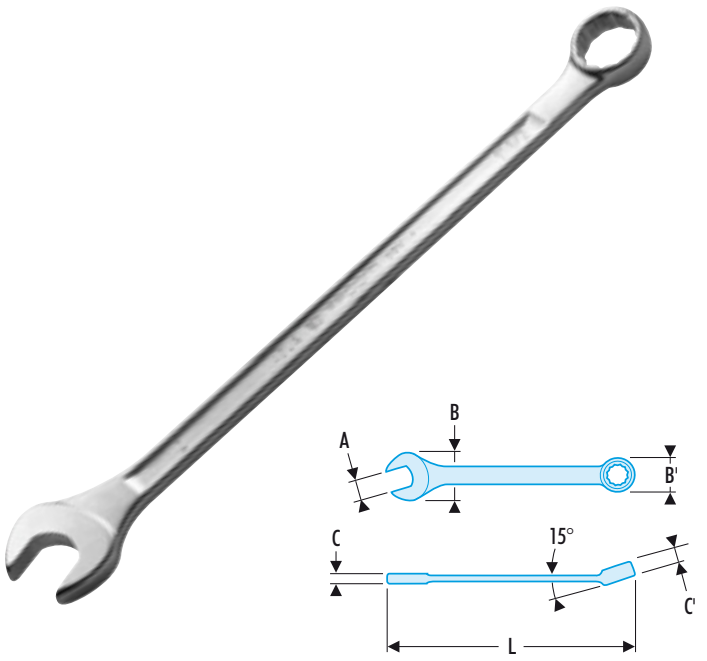


Power series

40LA Metric and inch long combination wrenches

▷ Strength to ISO 3318, ISO 7738, NF ISO 3318, NF ISO 7738.
- Long handle for increased torque.
- Metric sizes from 19 to 50 mm.
- Inch sizes from 3/4" to 2".
- 12-point OGV® ring angled at 15°.

A mm	A"	L mm	B x B' mm	C x C' mm	g
40.19LA	**40.3/4LA**	329	45 x 29,6	8,7 x 12	240
40.21LA	**40.13/16LA**	355	49 x 32,3	9,5 x 13	305
40.22LA	**40.7/8LA**	368	51 x 33,8	9,9 x 14	360
40.23LA	**40.15/16LA**	381	53 x 35,4	10,3 x 14,5	370
40.24LA		394	55 x 36,9	10,7 x 15	455
40.26LA	**40.1'LA**	420	59 x 39,4	11,5 x 15,5	520
40.27LA	**40.1'1/16LA**	433	61 x 40,6	11,9 x 16	590
40.28LA	**40.1'1/8LA**	446	62,4 x 42,2	12,3 x 16,5	600
40.29LA		446	62,4 x 42,2	12,3 x 16,5	600
40.30LA	**40.1'1/4LA**	472	65 x 45,2	13,1 x 17	800
40.32LA		498	69,5 x 47,8	13,9 x 18	850
40.33LA	**40.1'5/16LA**	498	69,5 x 47,8	13,9 x 18	850
40.34LA		524	72,7 x 50,7	14,7 x 19	1040
40.35LA		524	72,7 x 50,7	14,7 x 19	1040
40.36LA	**40.1'7/16LA**	550	76 x 53,6	15,5 x 20	1200
40.38LA	**40.1'1/2LA**	576	80 x 56	16,3 x 22	1435
40.41LA		615	86 x 59,2	17,5 x 23	1720
40.42LA	**40.1'5/8LA**	615	86 x 59,2	17,5 x 23	1720
40.46LA	**40.1'13/16LA**	680	95 x 65,85	19,5 x 25	2435
40.50LA	**40.2'LA**	732	103 x 71	21,1 x 30	3500



40LA Metric and inch long combination wrench sets

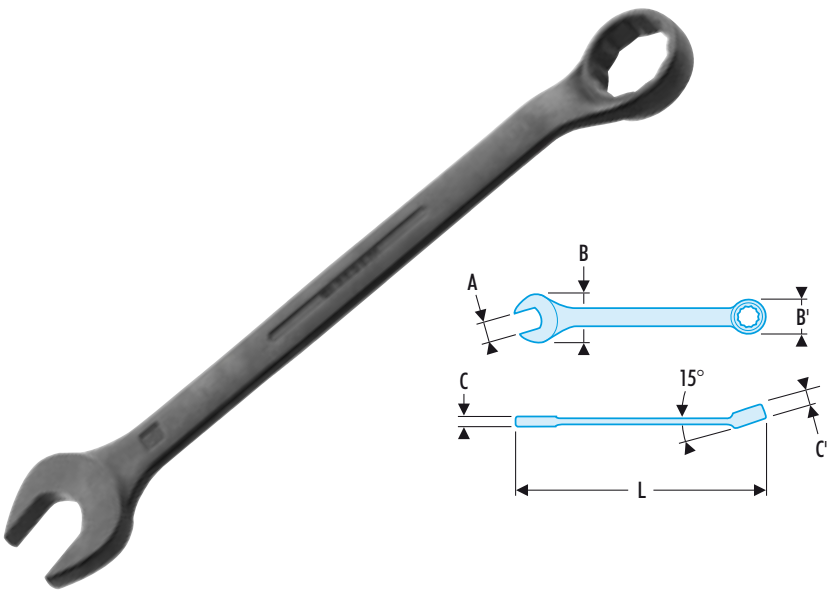
- Supplied as box sets.

		mm/"	kg
40LA.JE17	•	19-21-22-23-24-26-27-28-29-30-32-33-35-36-38-41-42	13,8
440.40LAJE26		(440)-8-9-10-11-12-13-14-15-16-17-18-(40LA)-19-21-22-23-24-26-27-28-29-30-32-33-35-36-38	11,1
440.40LAJU20	•	(440)-1/4-5/16-3/8-7/16-1/2-9/16-5/8-11/16-(40LA)3/4-13/16-7/8-15/16-1-11/16-11/8-11/4-15/16-13/8-17/16-11/2	9,0

41L Metric heavy-duty combination wrenches

▷ ISO 691, NF ISO 691.
- Metric sizes from 46 to 65 mm.
- Forged in high-strength steel.
- Burnished finish.

	A mm	B x B' mm	C x C' mm	L mm	kg
41.46L	46	95 x 69	15 x 24	520	1,3
41.50L	50	103 x 75	16,5 x 26	560	1,45
41.55L	55	113 x 84,5	18 x 28	610	1,58
41.60L	60	123 x 90	20 x 31	660	2,3
41.65L	65	133 x 98	22 x 31	710	2,65



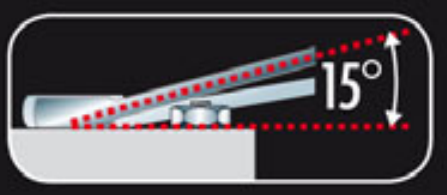
Ratchet combination wrench series

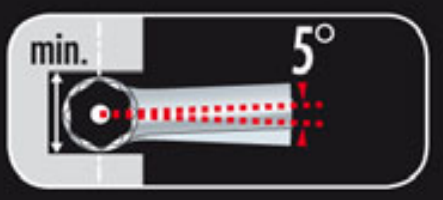
67 range

RATCHET COMBINATION WRENCHES

Raise your expectations

UNBEATABLY COMPACT





GUARANTEED compliance with ISO 1711-1

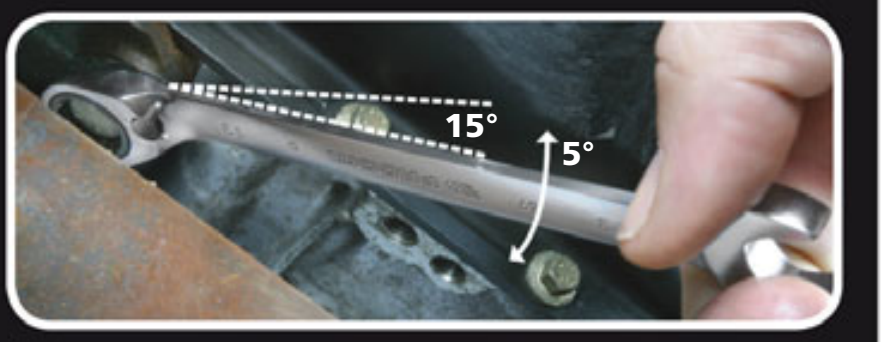
- *Reversible ratchet system incorporated within a compact ring head.*

Ideal for reaching into awkward spaces, FACOM's new ratchet combination wrench is easier to use for both tightening and loosening..

Ultra-fast operation

- *Increment : 5° (6°for sizes 8 and 9). Small increments for better performance.*

Perfectly suited to quick pre-tightening and loosening operations, for maximum productivity, even where access is restricted.



Guaranteed safety for all professional applications.

Particular care has been taken in the design of the new FACOM reversible ratchet combination wrench to avoid the risk of accidental reversal.

Facom's 67 and 67S range incorporates a recessed reversing lever which protects it during torquing.

Guaranteed safety for all professional applications.

Working conditions are changing. The related constraints of compact, cluttered work spaces and increasingly difficult access are a focus of Facom's concerns.

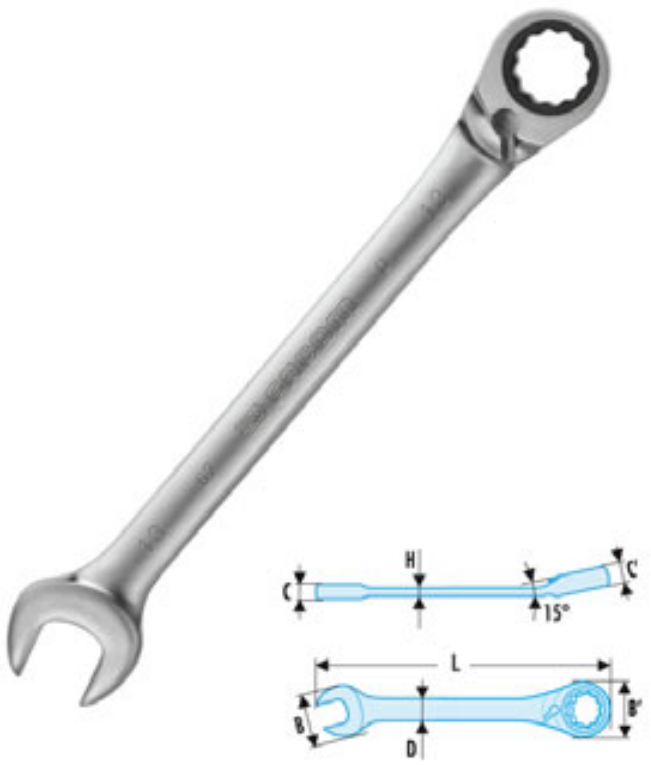
- *A range to cater for changing working environments.*
- *The 67 range includes :*
  - *The 67S ultra-compact short ratchet combination wrench.*
  - *The highly versatile 67F hinged ratchet combination wrench.*

67 Ratchet combination wrenches

▷ ISO 1711-1.

- Reversible ratchet system incorporated within a compact ring head.
- High performance, suitable for aircraft fasteners.
- Integral reversing lever avoids any risk of accidental reversal.
- Wrench angled at 15°.
- 5° increments (6° for sizes 8 and 9).
- Satin chrome finish.

	B mm	D mm	B' mm	C mm	C' mm	L mm	H mm	g
67.6	15	7,5	14	4	6,3	128	2,8	27
67.7	16,7	7,5	17	4,3	6,5	140	2,8	32
67.8	16,7	7,5	17	4,3	6,5	140	2,8	42
67.9	18,7	8	18,6	4,5	6,9	149	3	50
67.10	20,8	8,8	20,2	5	7,3	158	3,4	59
67.11	23	9,9	22	5,3	7,7	165	3,7	71
67.12	24,6	10,8	23,4	5,5	8,2	171	4	88
67.13	26,8	11,8	25,5	6,1	8,6	178	4,3	101
67.14	29	12,6	26,9	6,5	9	190	4,5	119
67.15	31	13,4	28,3	6,8	9,4	199	4,7	138
67.16	33	14,1	29,8	7,1	9,9	208	4,9	153
67.17	35,5	15,2	31,8	7,5	10,3	225	5,3	186
67.18	37,5	16,1	32,7	8,1	10,7	236	5,5	211
67.19	39,4	16,8	34	8,6	11,2	247	5,7	243
67.21	45,8	19,5	40,1	9	13	287,8	6,3	343
67.22	45,8	19,5	40,1	9	13	287,8	6,3	343
67.24	51,8	22,1	46,5	10	14,5	321	6,5	476
67.27	56,4	25	52,4	10,8	15,5	356,6	8,4	693
67.30	62,7	27	58,1	11,5	17	400,7	8,5	891
67.32	66,4	29,2	61,9	12,4	17,5	423,5	9,5	1079



67 Metric ratchet combination wrench sets

- Supplied as rack, module or box sets.

			mm	kg
67.JP9			8-10-11-12-13-16-17-18-19	1,195
67J7	•		8-10-12-13-14-17-19	0,876
MOD.67J12		PL.652	8-9-10-11-12-13-14-15-16-17-18-19	1,590
MOD.67XL		PL.653	21-22-24-27-30-32	4,090

Short ratchet combination wrench series

67S Short reversible ratchet combination wrenches

ACCESSIBILITY FIRST

Easier servicing and repair.

- *Ideal for applications that present problems in terms of :*
  - congestion,
  - visibility and accessibility.
- *Saves time.*
- *Comfortable to use.*
- *Automotive applications : working around the engine block or gearbox, instrument panel, steering column, electric or control panels.*

Unbeatably ultra-compact.

- *40 % more compact than a traditional ratchet combination wrench.*

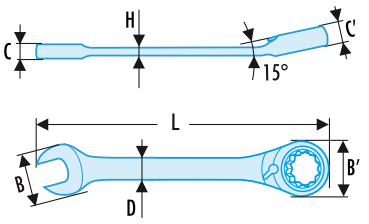
Ideal for applications where access is limited.

67S Short ratchet combination wrenches

▷ ISO 1711-1.

- Reversible ratchet system incorporated within a compact ring head.
- Head angled at 13°.
- 5° increments (6° for sizes 8 and 9).
- Integral reversing lever avoiding accidental reversal.
- Satin chrome finish.

	B mm	D mm	B' mm	C mm	C' mm	L mm	H mm	⚖ g
67S.7	16,2	7,8	16,7	4	6,5	90	2,8	22
67S.8	16,2	7,8	16,7	4	6,5	90	2,8	22
67S.9	18,2	8,8	18,6	4,4	6,9	93	2,9	29
67S.10	20,3	9,3	20,0	4,8	7,3	95	3,3	35
67S.11	22,5	10,2	21,8	5,2	7,7	103	3,7	44
67S.12	24,3	10,8	23,0	5,3	8,2	106	3,9	51
67S.13	26,8	11,8	25,2	5,8	8,6	108	4,0	63
67S.14	28,7	12,6	26,8	6,2	9	115	4,4	77
67S.15	30,5	13,3	28,3	6,5	9,4	119	4,5	88
67S.16	32,9	14,1	29,8	6,8	9,9	123	4,7	105
67S.17	34,9	15,2	31,8	7,2	10,3	127	5,0	117



6-piece set of short ratchet combination wrenches

67S.JP6

- 6-piece set of short ratchet combination wrenches.
- Sizes : 8 - 10 - 11- 12 - 13 - 14.
- FACOM Design Support.
- Support ref : CK.67SJ1.

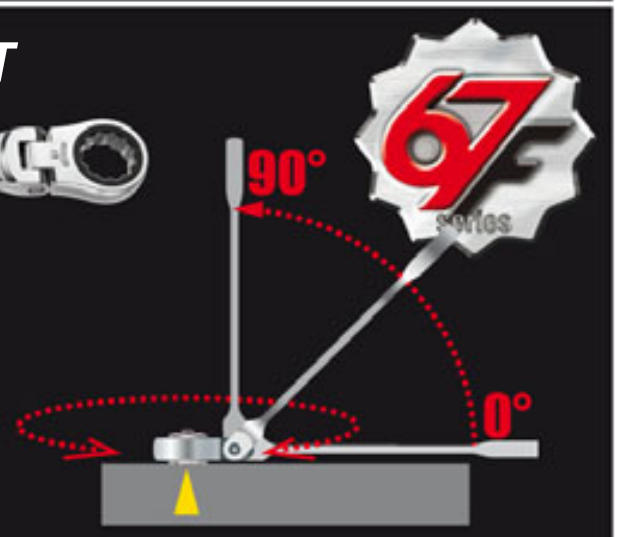
Hinged ratchet combination wrench series

67F Hinged ratchet combination wrenches

VERSATILE, COMPACT AND ULTRA-EFFICIENT

Accessibility and Comfort.

- *Overcomes the problems of tightening and loosening in applications where the operator must work blind.*
- *The hinged head adapts to each application for maximum efficiency and working comfort.*
- *Hand remains clear, limiting the risk of. scratching or injury.*
- *Perfect grip, better torque transfer, faster.*



Versatile ring head.

The hinged ring head is ideally suited to applications requiring :

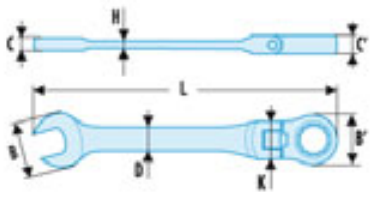
- *An ultra-compact ratchet.*
- *An extra low profile wrench.*
- *Extreme manoeuvrability.*

67F Hinged ratchet combination wrenches

▷ ISO 1711-1.

- Ratchet system incorporated within a compact ring head.
- 180° wrench movement.
- 5° increments (6° for sizes 8 and 9).
- Satin chrome finish.

	B mm	D mm	B' mm	C mm	C' mm	K mm	L mm	H mm	ΔΔ g
67F.8	16,2	7,8	16,7	4,3	6,5	13	127	3	35
67F.9	18,2	8,8	18,6	4,6	6,9	14,6	131,5	3,1	45
67F.10	20,3	9,3	20	5	7,3	16	136	3,4	52
67F.11	22,5	10,2	21,8	5,4	7,7	17	141	3,8	64
67F.12	24,8	10,8	23	5,8	8,2	18	147,5	4	78
67F.13	26,8	11,8	25,2	6,1	8,6	19	154	4,1	94
67F.14	28,7	12,6	26,8	6,4	9	20	160	4,6	108
67F.15	30,5	13,3	28,3	6,9	9,4	21	169	4,8	127
67F.16	32,9	14,1	29,8	7,2	9,9	22	179	5	149
67F.17	34,5	15,2	31,8	7,6	10,3	23	190	5,3	181
67F.18	37	15,9	32,8	8	10,7	24	203	5,5	204
67F.19	39,2	16,8	33,9	8,6	11,2	25	215	5,8	236



9-piece set of hinged ratchet combination wrenches

67F.JP9

- 9-piece set of hinged ratchet combination wrenches
- Sizes : 8 - 10 - 11 - 12 - 13 - 16 - 17 - 18 - 19.
- FACOM Design Support.
- Support ref : CK.CLE.

Ratchet ring wrench series

Ratchet ring wrenches 64

GUARANTEED compliance with ISO 1711-1.

EXTRA LOW-PROFILE.

Ideal for crowded or tight spaces.

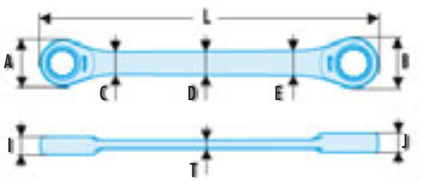
- *The compact ring head perfectly replaces the ratchet and socket combination and provides the advantages of an extra low-profile ratchet.*
- *Extra thin walls (T) for the tightest clearances.*
- *Optimum diameter (D) for an unbeatably compact design.*
- *5° increments.*
- *Ideal for low clearance applications.*
- *Enables quick tightening and loosening in the most difficult conditions.*

64 - Metric and inch 12 point ratchet ring wrenches

▷ ISO 1711-1.

- Ideal for use where access is difficult.
- Ultra-compact ring head.
- 5° increments.
- High performance, suitable for aircraft fasteners.
- Satin chrome finish.

	A mm	B mm	C mm	D mm	E mm	I mm	J mm	t mm	L mm	g
64.6X7	14,2	17,2	8	8	8	6,3	6,5	3	115	35
64.8X9	16,8	20,2	8,3	8,7	9,1	6,5	6,9	3,2	128	42
64.10X11	20,2	21,8	9,1	9,7	10,3	7,3	7,7	3,6	150	60
64.12X13	23	24,8	11,3	11,8	12,3	8,2	8,6	4,2	170	81
64.14X15	26,5	29,5	13,1	13,7	14,3	9	9,4	4,7	190	128
64.16X18	29,5	33,5	14,8	15,7	16,6	9,9	10,7	5,4	210	182
64.17X19	31,5	33,5	15,2	15,9	16,6	10,3	11,2	5,4	230	187
64.21X23	40	46	15,2	15,9	16,6	13	14,5	5,4	260	480
64.22X24	40	46	15,2	15,9	16,6	13	14,5	5,4	260	480
64.1/4X5/16	14,2	17,2	8	8	8	6,3	6,5	3	115	35
64.5/16X11/32	16,8	20,2	8,3	8,7	9,1	6,5	6,9	3,2	128	42
64.3/8X7/16	20,2	21,8	9,1	9,7	10,3	7,3	7,7	3,6	150	60
64.1/2X9/16	23	24,8	11,3	11,8	12,3	8,6	9	4,2	180	116
64.5/8X11/16	29,5	33,5	14,8	15,7	16,6	9,9	10,7	5,4	210	182
64.3/4X13/16	33,5	40	15,2	15,9	16,6	11,2	13	5,4	245	307
64.7/8X15/16	40	46	15,2	15,9	16,6	13	14,5	5,4	260	480



64 - Sets of metric and inch 12 point ratchet ring wrenches

- Supplied as box, roll or module sets.

	Sizes				kg
64.J4	10x11 - 12x13 - 16x18- 17x19			•	0,536
64.JE6T	8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19 mm	N.38A-6B			0,825
64.JU6T	1/4x5/16 - 3/8x7/16 - 1/2x9/16 - 5/8x11/16 - 3/4x13/16 - 7/8x15/16	N.38A-6B			1,312
MOD.64J7	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19		PL.608A		1,153

15° offset head ratchet ring wrench series

65 Offset ratchet ring wrenches

Angled heads

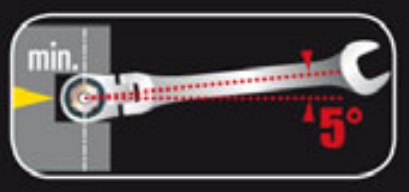
GUARANTEED compliance with ISO 1711-1.

Accessibility and Comfort.

- *The compact ring head perfectly replaces the ratchet and socket combination and provides the advantages of an extra low-profile ratchet.*
- *Head angled at 15° on each side.*
- *Keeps the hand away from the application.*

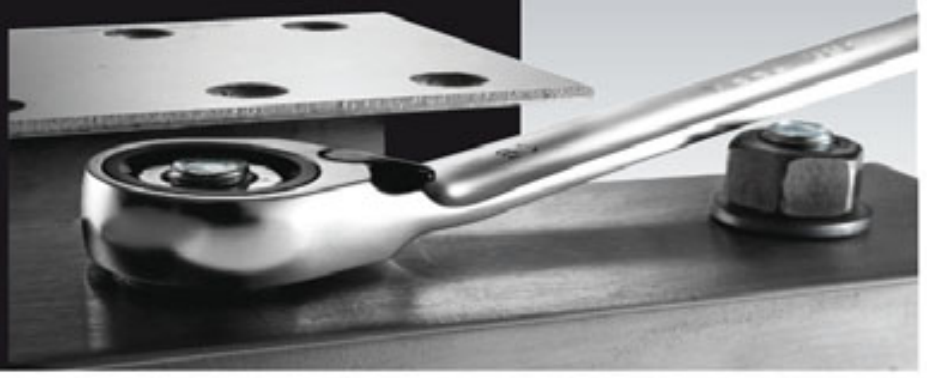
Saves time.

- *5° increments.*
- *Ideal for low clearance applications.*
- *Enables quick tightening and loosening in the most difficult conditions.*



Safe.

- *Integral reversing lever avoids any risk of accidental reversal while in use.*



65 - 12-point metric and inch 15° angle head ratchet ring wrenches

▷ ISO 1711-1.

- Ideal for use where access is difficult.
- Ultra-compact ring heads angled at 15°.
- 5° increments.
- Integral reversing levers avoid any risk of accidental reversal.
- High performance, suitable for aircraft bolts.
- Satin chrome finish.

	B mm	B' mm	C mm	C' mm	L mm	ΔΔ g
65.6X7	14	17	6,3	6,5	115	30
65.8X9	17	20,2	6,5	6,9	128	42
65.10X11	20,2	22	7,3	7,7	150	62
65.12X13	23,4	25,5	8,2	8,6	170	90
65.14X15	26,9	29,8	9	9,4	190	130
65.16X18	29,8	34	9,9	10,7	210	187
65.17X19	31,8	34	10,3	11,2	230	208
65.21X23	40,1	46	13	14,5	260	430
65.22X24	40,1	46,5	13	14,5	260	424
65.1/4X5/16	14	17	6,3	6,5	115	30
65.5/16X11/32	17	20,2	6,5	6,9	128	44
65.3/8X7/16	20,2	22	7,3	7,7	150	62
65.1/2X9/16	25,5	26,9	8,6	9	180	108
65.5/8X11/16	29,8	31,8	9,9	10,3	200	169
65.3/4X13/16	34	40,1	11,2	13	245	291
65.7/8X15/16	40,1	46,5	13	14,5	260	419

65 - Metric and inch 15° angle head ratchet ring wrench sets

- Supplied as rack, roll or module sets.

	mm			kg
65.JP6	8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19			0,830
65.JU6T	1/4x5/16 - 3/8x7/16 - 1/2x9/16 - 5/8x11/16 - 3/4x13/16 - 7/8x15/16	N.38A-6B		1,312
MOD.65J7	6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x18 - 17x19		PL.608A	0,925

Ratchet wrenches

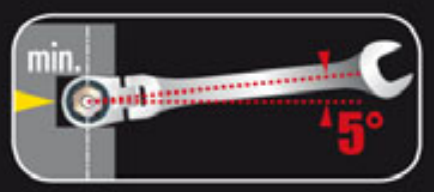
Ratchet bit driver series

65.PE Ratchet bit holder wrench

GUARANTEED compliance with ISO 1711-1

Facom performance

- *Reversible ratchet system incorporated within a compact ring head.*
- *Wrench angled at 15°.*
- *Increment : 5°.*
  Small increments for a better increment-to-performance ratio.
- *Facom reversing lever.*



Ultra compact and practical.

- *Spring clip bit attachment.*
- *Knurled head for easier pre-tightening.*
- *Used for installing 1/4" and 5/16" aircraft type fasteners.*

1/4" - 5/16" bit holder wrench

65.PE

- Takes bits :
- Series 1 : hexagonal 1/4"
- Series 2 : hexagonal 5/16"
- Used for installing 1/4" and 5/16" aircraft fasteners.
- 5° increments.
- Heads angled at 15°.
- Bits retained by spring-clip.
- Knurled head for fast pre-tightening.
- Length : 150 mm
- Satin chrome finish.

⚖ : 74 g

Ratchet wrench and bit set

65.PEJ13

- Wrench 65.PE.
- 13 bits.
- ✪ For Torx® Tamper Resistant screws® : EXR.110 - EXR.115
- EXR.120 - EXR.125 - EXR.130 - EXR.140.
- ○ : Hexagon socket heads : EH.103 - EH.104 - EH.105 - EH.106.
- ✪ : For Pozidriv® screw : ED.101T - ED.102T - ED.103T.
- BP.102.
- PL.367 A.

⚖ : 400 g

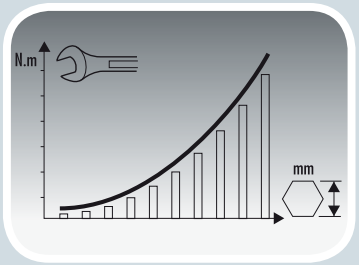
Standard series

44 series open end wrenches

THE "DOUBLE-ENDED" WRENCH

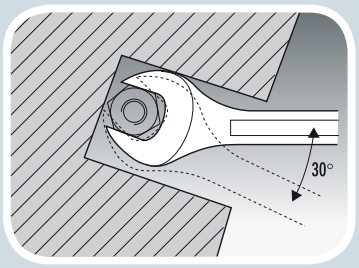
2 sizes per wrench

- *Reduces the number and weight of tools.*



Power and precision

- *Tightening torque : ISO 1711, DIN 899, NF E 74.381.*
- *Tight tolerances on openings for a perfect fit on fasteners.*



Slim profile and comfort

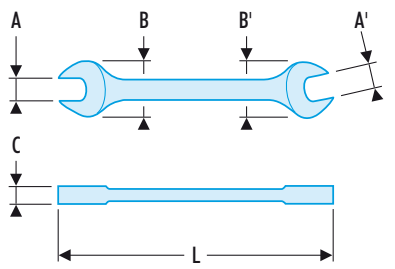
- *Smaller shape and volume for better accessibility.*
- *Streamlined heads.*
- *30° increments.*

44 Metric and inch open-end wrenches

▷ ISO 10102, DIN 3110, NF ISO 3318, NF ISO 10102.

- Metric sizes from 3.2 to 42 mm.
- Inch sizes from 1/4" x 5/16" to 1 7/16" x 1 5/8".
- Satin chrome finish.

A mm	A"	B x B' mm	C mm	L mm	g
44.3,2X5,5		11 x 13,5	3,0	90	11
44.4X5		11 x 13,5	3,0	90	11
44.6X7	**44.1/4X5/16**	15 x 17,5	3,5	120	20
44.8X9		18,5 x 21	3,8	137	30
44.8X10	**44.11/32X13/32**	19 x 23	4,2	143	38
44.10X11	**44.3/8X7/16**	23 x 25	4,7	152	47
44.10X13		23 x 29	5,1	162	58
44.11X13		25,5 x 29	5,1	167	65
44.12X13		25,5 x 29	5,1	167	64
44.12X14	**44.1/2X9/16**	29 x 33,5	5,5	177	77
44.14X15		31 x 33	5,8	182	87
44.13X17		31 x 37	6,3	192	118
44.16X17		35,5 x 37	6,3	200	118
44.16X18	**44.5/8X11/16**	37 x 42	6,8	210	144
44.17X19	**44.11/16X3/4**	37 x 42	6,8	210	144
44.18X19		39 x 42	7,3	220	157
44.20X22	**44.3/4X13/16**	43 x 48,5	7,5	240	200
44.21X23		47 x 50,5	7,8	242	218
44.22X24	**44.7/8X15/16**	47,5 x 52	8,3	261	258
44.24X27		51 x 58	8,8	270	324
44.25X28		56 x 61,6	8,8	282	360
44.26X28	**44.1'X1'1/16**	56 x 61,6	8,8	282	360
44.27X29		59 x 64	9,5	301	450
44.27X30		59 x 64	9,5	301	450
44.27X32	**44.1'1/8X1'1/4**	63 x 70	9,8	318	513
44.30X32	**44.1'3/16X1'5/16**	63 x 70	9,8	318	513
44.33X35		71 x 75	11,5	342	720
44.34X36		71 x 75	11,5	342	720
44.36X41	**44.1'3/8X1'1/2**	78 x 87	12,0	381	945
44.38X42	**44.1'7/16X1'5/8**	78 x 87	12,0	381	945



Open-end wrenches

44 Metric wrench sets

• Supplied as box, roll, module or panel sets.

					mm	kg
44.JE9		•			3,2x5,5-4x5-6x7-8x9-10x11-12x13-14x15-16x17-18x19	0,545
44.JE8		•			8x9-10x11-12x13-14x15-16x17-18x19-21x23-22x24	0,98
44.JE12		•			6x7-8x9-10x11-12x13-14x15-16x17-18x19-21x23-22x24-26x28-27x29-30x32	2,29
44.JE17		•			3,2x5,5-4x5-6x7-8x9-10x11-12x13-14x15-16x17-18x19-21x23-22x24-26x28-27x29-30x32-33x35-36x41-38x42	4,925
44.JE8T	N.38A-8C				8x9-10x11-12x13-14x15-16x17-18x19-21x23-22x24	1,02
44.JE9T	N.38A-9E				3,2x5,5-4x5-6x7-8x9-10x11-12x13-14x15-16x17-18x19	0,58
44.P17E			•		3,2x5,5-4x5-6x7-8x9-10x11-12x13-14x15-16x17-18x19-21x23-22x24-26x28-27x29-30x32-33x35-36x41-38x42	7,5
MOD.44-1				PL.315	6x7-8x9-10x11-12x13-14x15-16x17-18x19-21x23-22x24	1,315
MOD.44-2				PL.316	26x28 - 27x29 - 30x32	1,578

44 Inch wrench sets

• Supplied as box or roll sets.

			"	kg
44.JU6	•		1/4 x 5/16 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 3/4 x 13/16 - 7/8 x 15/16	0,65
44.JU12	•		1/4 x 5/16 - 11/32 x 13/32 - 3/8 x 7/16 - 5/8 x 11/16 - 1/2 x 9/16 - 3/4 x 13/16 - 7/8 x 15/16 - 1 x 1 1/16 - 1 1/8 x 1 1/4 - 1 3/16 x 1 5/16 - 1 3/8 x 1 /2 - 1 7/16 x 1 5/8	3,96
44.JU8T		N.38A-8B	1/4 x 5/16 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 3/4 x 13/16 - 7/8 x 15/16 - 1 x 1 1/16 - 1 1/8 x 1 1/4	1,56

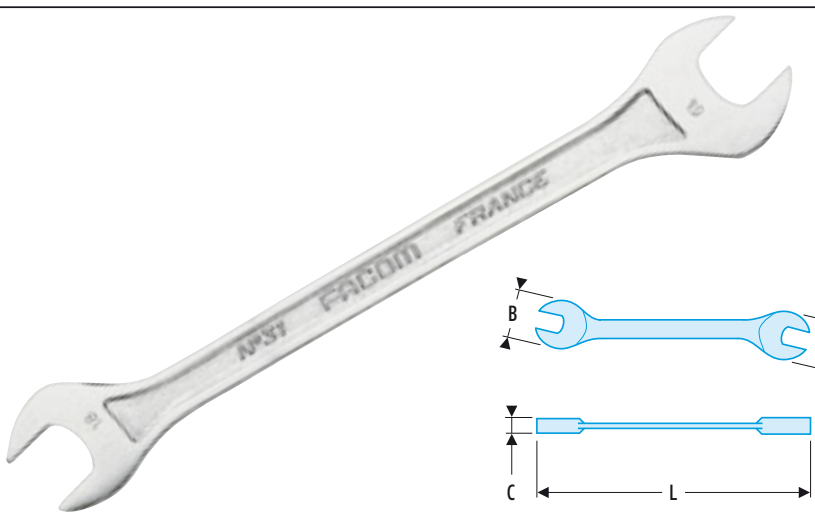
Low-profile series

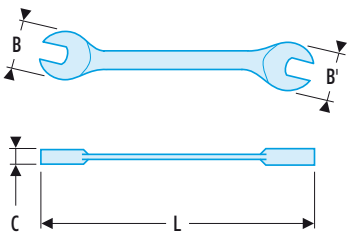
31 Metric low-profile open-end wrenches

▷ ISO 3318, NF E 74-304

• Metric sizes from 6 to 23 mm.
• 30 % slimmer than a conventional open-end wrench.
• Essential in confined spaces and for locknuts.
• Chrome finish.

	B x B' mm	C mm	L mm	g
31.6X7	16 x 19	2,2	148	18
31.8X9	20 x 24,5	2,4	175	28
31.10X11	20,5 x 25	2,4	175	28
31.12X13	28 x 33	3,6	210	68
31.14X15	29 x 33	3,6	210	68
31.16X17	38,5 x 43	4,2	250	140
31.18X19	38,5 x 43	4,2	250	140
31.20X22	49 x 53	5,6	292	270
31.21X23	49 x 53	5,6	292	270





31 Metric low-profile open-end wrench sets

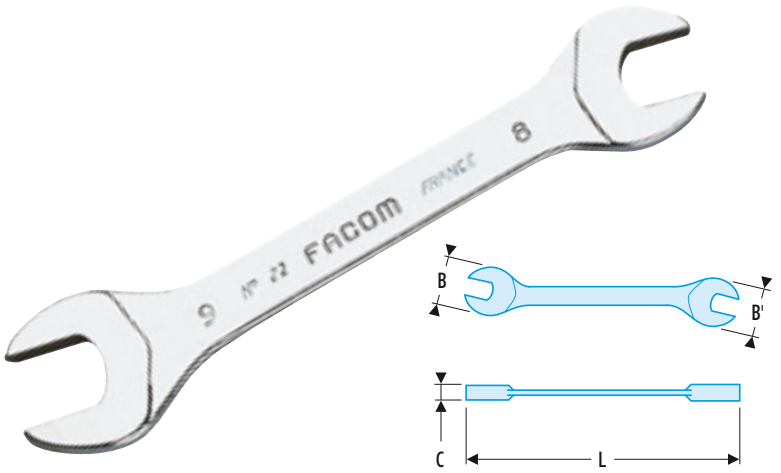
• Supplied as roll sets.

		mm	kg
31.JE6T	N.38A-6B	8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19	0,6
31.JE9T	N.38A-9B	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23	1,022

Compact series

22 Metric and inch midget wrenches with open ends at 15°

▷ ISO 3318, NF ISO 3318.
- Metric sizes from 3.2 to 13 mm.
- Inch sizes from 3/16" x 1/4" to 1/2" x 9/16".
- Short shank and slim heads for access in confined spaces.
- Chrome finish.



A mm	A"	B x B' mm	C mm	L mm	g
22.3,2X5,5		10 x 13	2,4	70	6
22.4X5		10 x 13	2,4	70	6
22.6X7	22.3/16x1/4	14 x 16	2,7	80	10
	22.7/32x9/32	14x16	2,7	80	10
22.8X9	22.5/16x3/8	18 x 20	3	90	17
22.10X11	22.11/32x7/16	21 x 23	3	100	22
2.12X13	22.1/2X9/16	26 x 28	3,5	110	36

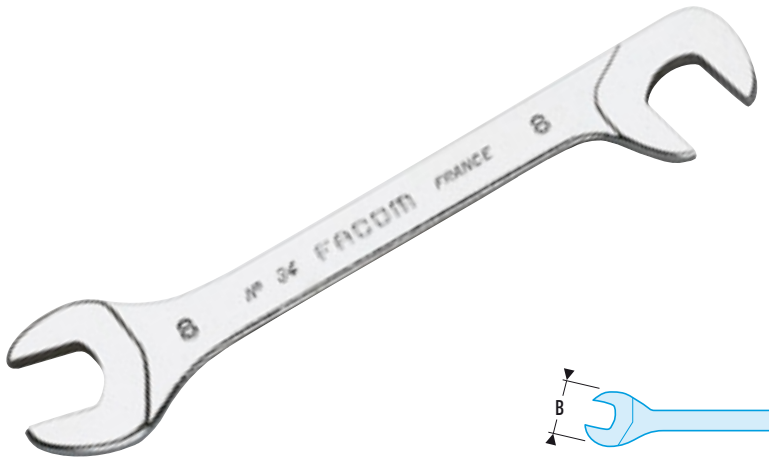
22 Metric and inch wrench sets

- Supplied as roll sets.

		mm / "	g
22.JE6T	N.38-6A	3,2 x 5,5 - 4 x 5 - 6 x 7 - 8 x 9 - 10 x 11 - 12 x 13	140
22.JU5T	N.38A-5C	3/16 x 1/4 - 7/32 x 9/32 - 5/16 x 3/8 - 11/32 x 7/16 - 1/2 x 9/16	130

34 Metric and inch midget wrenches with open ends at 15° and 75°

▷ ISO 3318, DIN 3113, NF ISO 3318.
- Metric sizes from 3.2 to 17 mm.
- Inch sizes from 3/16" to 11/16".
- The heads angled at 15° and 75° give access to fasteners that are inaccessible with a standard wrenches.
- Short handle and very slim heads for manoeuvrability.
- Chrome finish.



A mm	A"	B mm	C mm	L mm	g
34.3,2		10	2,4	70	6
34.4		10	2,4	70	6
34.5	34.3/16	13	2,4	75	8
34.5,5	34.7/32	13	2,4	75	8
34.6	34.1/4	15	2,7	80	10
34.7	34.9/32	15	2,7	80	10
34.8	34.5/16	18,5	3	90	18
34.9	34.11/32	18,5	3	90	18
34.10	34.3/8	22	3	100	22
34.11	34.13/32	22	3	100	22
	34.7/16	22	3	100	22
34.12	34.1/2	27	3,5	120	36
34.13	34.9/16	27	3,5	120	36
34.14		27	3,5	120	40
34.15	34.5/8	33	4,5	140	67
34.16	34.11/16	33	4,5	140	67
34.17		33	4,5	140	67

34 Metric and inch short open-end wrench sets

- Supplied as roll sets.

		mm/"	g
34.JL16T	N.38A-16A	3,2 - 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17	560
34.JU13T	N.38A-13B	3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 -3/8 - 13/32 - 7/16 -1/2 - 9/16 - 5/8 - 11/16	430

Metric miniature open-end wrench set

34.JT8

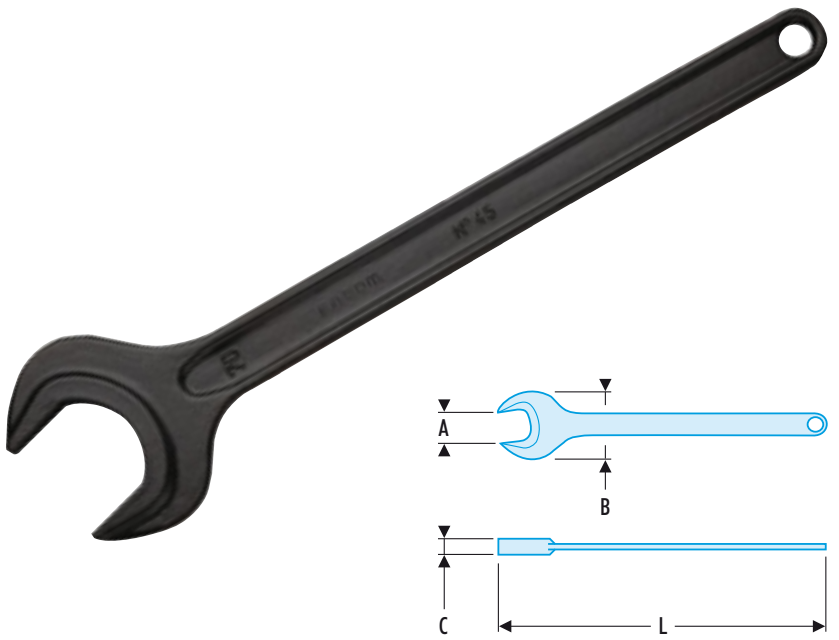
• Set of 10 tools on a ring, holding :
- 8 ultra-thin forged wrenches from 3.2 to 8 mm : 3.2-4-4.5-5-5.5-6-7-8 mm.
- 1 feeler gauge 5/10°.
- 1 screwdriver.
• Chrome finish.
• Supplied in a pouch.
⚖ : 107 g.

Power series

45 Heavy-duty open-end wrenches

▷ DIN 894, NF E 74-301.
• Metric sizes from 30 to 75 mm.
• Forged in carbon steel and hardened to 120 kg/mm² for high torque applications (construction, railways, shipyards, farming, oil rigs, etc.).
• Hook eye.
• Burnished finish.

	A mm	B mm	C mm	L mm	⚖ kg
45.30	30	62	11	255	0,26
45.32	32	66	12	270	0,315
45.34	34	66	12	270	0,315
45.36	36	74	13	300	0,43
45.38	38	74	13	300	0,43
45.41	41	85,5	13,5	346	0,58
45.46	46	95,5	15,5	381	0,75
45.50	50	102	16	415	1,05
45.55	55	112,5	16	460	1,2
45.60	60	122,5	18	493	1,7
45.65	65	130,5	18	518	1,7
45.70	70	143	20	573	2,2
45.75	75	151	21	605	2,8



VSE 1,000 V insulated tools

1,000 V insulated wrenches

1000 VOLTS EN 60900

For "VE" series 1,000 V insulated wrenches, see page 653

Safety colour coding

ORANGE : *1,000 V protection.*

YELLOW visible : *STOP and change tool.*

Standard series

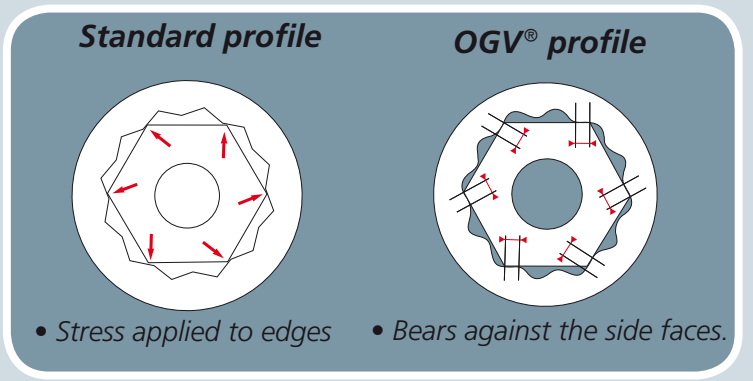
Series 55A ring wrenches

Facom OGV® profile.

Higher torque.

Increased durability.

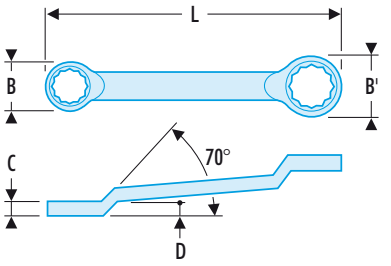
Reduced socket-fastener wear with 12-point OGV® ring.



55A Metric and inch OGV® offset ring wrenches

▷ DIN 838.
- Metric sizes from 6 to 50 mm.
- Inch sizes from 1/4" to 1 1/4".
- 12-point OGV® ring.
- Satin chrome finish.

A mm	A"	B x B' mm	C x C' mm	D mm	L mm	g
55A.6X7		10,7 x 12,2	5,5 x 6,2	19 x 20	167	42
	55A.1/4X5/16	11 x 14	5,5 x 6,5	20 x 21	172	47
55A.7X8		12 x 14	5,5 x 6,5	20 x 21	172	45
55A.8X9		13,7 x 15,5	6,5 x 7,2	20 x 21	182	58
55A.8X10		13,7 x 15,5	6,5 x 7,2	20 x 21	182	64
	55A.11/32X13/32	15,5 x 18	7,5 x 8,7	22 x 23	197	85
55A.10X11	55A.3/8X7/16	16,5 x 18	7,5 x 17	22 x 23	197	82
55A.11X13	55A.7/16X1/2	18 x 21	8,9 x 9,2	24 x 25	217	108
55A.12X13		19,5 x 21,5	8,9 x 9,2	24 x 25	218	117
	55A.1/2X9/16	21,5 x 23	9,2 x 9,7	25 x 26	238	143
55A.13X15		21,5 x 23,5	9,2 x 9,7	25 x 26	238	147
55A.14X15	55A.9/16X5/8	22 x 23,5	9,2 x 9,7	25 x 26	238	135
55A.13X16		21,5 x 26	9,4 x 10,7	27 x 28	245	155
55A.13X17		21 x 26	9,4 x 10,7	27 x 28	245	156
55A.16X17	55A.5/8X11/16	25,7 x 27	10,7 x 11,2	27 x 28	258	196
55A.16X18	55A.19/33x25/32	25,7 x 27,2	10,7 x 11,2	27 x 28	258	197
55A.17X19	55A.5/8X3/4	27 x 29,7	11,2 x 12,2	29 x 30	290	263
55A.18X19	55A.11/16X3/4	27 x 29,7	11,2 x 12,2	29 x 30	290	254
55A.18X21	55A.3/4X13/16	29 x 33	11,7 x 12,7	31 x 32	296	289
55A.19X22		29 x 33,7	11,7 x 12,7	31 x 32	296	283
55A.20X22	55A.13/16X7/8	32 x 35	12,2 x 13,2	31 x 32	316	363
55A.21X23		32 x 35	12,2 x 13,2	31 x 32	316	361
55A.22X24	55A.7/8X15/16	33,7 x 36,7	12,2 x 13,2	33 x 34	324	391
55A.24X26	55A.15/16X1'	37,2 x 41	12,7 x 14,3	33 x 34	328	470
55A.24X27		37,2 x 41,2	12,7 x 14,3	33 x 34	328	464
	55A.1'X1'1/16	39,7 x 42	13,7 x 14,7	34 x 35	345	519
55A.25X28		39,7 x 43	13,7 x 14,7	34 x 35	345	514
55A.26X28		39,7 x 43	13,7 x 14,7	34 x 35	345	507
55A.27X29	55A.1'1/16X1'1/8	41,5 x 46	14,3 x 15,7	35 x 36	353	574
55A.27X30		41,5 x 46	14,3 x 15,7	35 x 36	353	569
55A.27X32		41,5 x 46,2	14,3 x 15,7	35 x 36	353	572
55A.30X32	55.1'1/8X1'1/4	45,3 x 48,7	15,2 x 16,7	36 x 38	360	638
55A.30X34		46 x 52	17,2 x 19,2	37 x 39	402	818
55A.34X36		52 x 55	18,2 x 20,2	40 x 42	440	1074
55A.36X41		53,7 x 61,7	18,2 x 20,2	40 x 42	440	1073
55A.38X42		41,5 x 46	14,3 x 15,7	35 x 36	353	1060
55A.46X50		70,7 x 76,7	20,7 x 21,7	44 x 48	510	1884



55A Metric and inch ring wrench sets

• Supplied as box, roll, module or panel sets.

					mm/"	kg
55A.JN6	•				8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19	0,738
55A.JD8	•				6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22	1,034
55A.JE8	•				8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 21 x 23 - 24 x 26	1,422
55A.JD10	•				6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 24 x 27 - 30 x 32	2,03
55A.JE12	•				6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 21 x 23 - 24 x 26 - 26 x 28 - 27 x 29 - 30 x 32	3,288
55A.JD12	•				6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 26 - 25 x 28 - 27 x 32	3,076
55A.JD12A	•				6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 20 x 22 - 21 x 23 - 24 x 27 - 25 x 28 - 30 x 32	3,116
55A.JE14	•				6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 21 x 23 - 22 x 24 - 26 x 28 - 27 x 29 - 30 x 32 - 36 x 41 - 38 x 42	6,178
55A.JU6A	•				1/4 x 5/16 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 3/4 x 13/16 - 7/8 x 15/16	0,99
55A.JU8	•				1/4 x 5/16 - 11/32 x 13/32 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 19/32 x 25/32 - 3/4 x 13/16 - 7/8 x 15/16	1,266
55A.JU10	•				1/4 x 5/16 - 11/32 x 13/32 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 19/32 x 25/32 - 3/4 x 13/16 - 7/8 x 15/16 - 1" x 1"1/16 - 1 1/8" x 1 1/4"	2,4
55A.JN6T		N.38A-6B			8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19	0,83
55A.JD8T		N.38A-6B			6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19 - 20x22	1,12
55A.JE8T		N.38A-6B			8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 21 x 23 - 24 x 26	1,51
55A.JU6AT		N.38A-6B			1/4 x 5/16 - 3/8 x 7/16 - 1/2 x 9/16 - 5/8 x 11/16 - 3/4 x 13/16 - 7/8 x 15/16	1,08
55A.JU8T		N.38A-6B			1/4x5/16-11/32x13/32-3/8x7/16-1/2x9/16-5/8x11/16-19/32x25/32-3/4x13/16-7/8x15/16	1,356
55A.JU8AT		N.38A-6B			1/4 x 5/116 - 3/8 x 7/16 - 1/2 x 9/16 - 2/8 x 11/16 - 3/4 x 13/16 - 7/8 x 15/16 - 1" x 1"1/16 - 1 1/8" x 1 1/4"	1,22
55A.P14E		•			6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 21 x 23 - 22 x 24 - 26 x 28 - 27 x 29 - 30 x 32 - 36 x 41 - 38 x 42	8,5
MOD.55-1			PL.317A		6x7 - 8x9 - 10x11 - 12x13 - 14x15 - 16x17 - 18x19	0,920
MOD.55-2			PL.318		21x23 - 22x24 - 26x28	1,450
MOD.55-3			PL.600		1/4x5/16 - 11/32x13/32 - 3/8x7/16 - 1/2x9/16 - 5/8x11/16 - 19/32x25/32 - 3/4x13/16	1,020

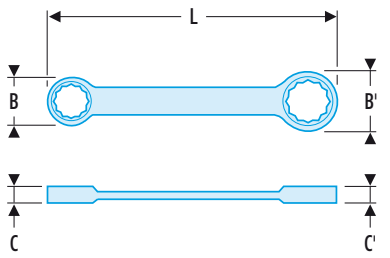
59 Metric straight ring wrenches

▷ ISO 10103, DIN 837, NF ISO 10103.

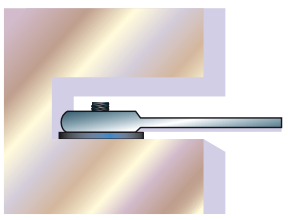
• Slim rings and short shank for working in congested spaces.

• 12-point heads giving 30° increments.

• Satin chrome finish.



	B x B' mm	C mm	L mm	g
59.6X7	9,9 x 11,2	4,7	100	10
59.8X9	12,5 x14	5,2	115	16
59.10X11	15,5 x 16,5	6,4	128	28
59.12X13	18,5 x 20,5	7,3	143	40
59.14X15	21 x 22,5	7,3	157	50
59.16X17	23,5 x 24,5	8,5	168	65
59.18X19	26 x 27,5	9,2	189	80
59.21X23	31,2 x 33,8	11,6	217	130
59.22X24	31,2 x 33,9	11,6	217	130
59.26X28	36,5 x 40,5	11,8	265	230
59.27X29	38,9 x 43,4	12,8	285	270
59.30X32	42,5 x 45	12,8	285	280



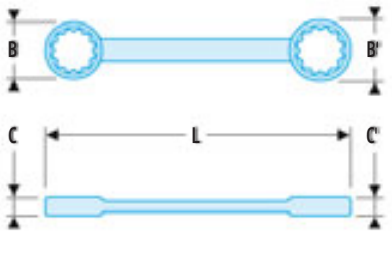
59 Straight ring wrench sets

• Supplied as box or roll sets.

			mm	kg
59.JN6		•	8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19	0,279
59.JE12		•	6 x 7 - 8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 21 x 23 - 22 x 24 - 26 x 28 - 27 x 29 - 30 x 32	1,329
59.JN8T	N.38A-8C		8 x 9 - 10 x 11 - 12 x 13 - 14 x 15 - 16 x 17 - 18 x 19 - 21 x 23 - 22 x 24	0,570

59TX Torx® ring wrenches

• Torx® pattern with 30° increments by reversing the tool.
• "Tear-drop" profile of ring outer walls ensures even stress distribution and higher strength.
• Polished chrome finish.



	N° Torx®	B x B' mm	C x C' mm	L mm	g
59TX.6X8	E6 x E8	9 x 11	5 x 6	115	15
59TX.10X12	E10 x E12	13 x 15	7 x 8	150	35
59TX.14X18	E14 x E18	17 x 21	8 x 9,5	190	65
59TX.20X24	E20 x E24	24 x 28	11 x 13,5	240	190

Set of 4 Torx® ring wrenches

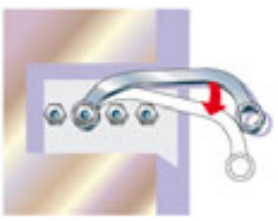
59TX.J4

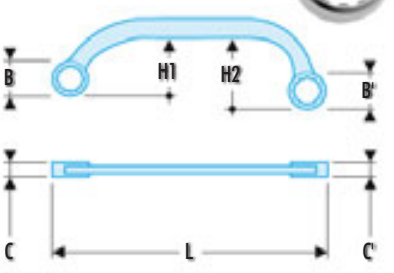
• Torx ® pattern with 30° increments by reversing the tool.
• "Tear-drop" profile of ring outer walls ensures even stress distribution and higher strength.
• Set of 4 Torx ® wrenches : E6 x E8, E10 x E12, E14 x E18, E20 x E24.
• Polished chrome finish.
• ⚖ 315 g.

Half-moon series

57 Metric half-moon ring wrenches

▷ ISO 3318, NF ISO 3318.
• Half-moon shape reaches where standard tools cannot.
• 12-point ring giving 30° increments.
• Satin chrome finish.





	H1 x H2 mm	B x B' mm	C x C' mm	L mm	g
57.10X12	24 x 26	17 x 19,5	8 x 8	143	85
57.11X13	24 x 26	17 x 19,5	8 x 8	143	85
57.13X15	28 x 31	20 x 23	8,5 x 9	166	100
57.14X16	30 x 33	22,5 x 24,5	9 x 9,5	184	180
57.14X17	30 x 33	22,5 x 24,5	9 x 9,5	184	180
57.15X17	30 x 33	22,5 x 24,5	9 x 9,5	184	180
57.16X18	33 x 35	24 x 27	9,5 x 10	200	215
57.19X22	32 x 41	28,5 x 32,5	10 x 11	235	280

Ring wrenches

Set of 5 metric half-moon ring wrenches

57.JE5

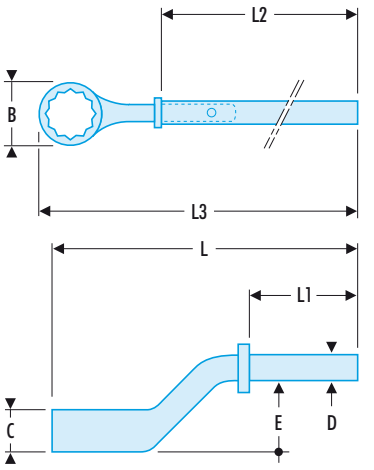
• Supplied as box sets.

		mm	g
57.JE5	•	10 x 12 - 11 x 13 - 14 x 17 - 16 x 18 - 19 x 22	850

Power series

54 Metric heavy-duty offset ring wrenches

• Metric sizes from 24 to 70 mm.
• Offset 12-point ring giving 30° increments.
• High power from resilient ring combined with long removable handle (order separately).
• Chrome finish.



Wrenches

	B x C mm	Ø D x L1 mm	E x L mm	kg
54A.24	38 x 17,0	18,5 x 85	29,5 x 180	0,380
54A.30	48 x 18,0	18,5 x 95	33,5 x 200	0,550
54A.32	49 x 18,0	21,5 x 116	34,0 x 235	0,700
54A.36	54 x 20,0	21,5 x 120	35,5 x 245	0,840
54A.41	62 x 22,0	21,5 x 127	39,5 x 265	1,000
54A.46	69 x 23,0	24,5 x 129	40,0 x 280	1,300
54A.50	76 x 25,5	24,5 x 129	42,5 x 290	1,450
54A.55	81 x 28,0	24,5 x 136	45,5 x 300	1,500
54A.60	90 x 30,5	29,5 x 156	49,0 x 345	2,300
54A.65	98 x 33,0	29,5 x 158	53,0 x 355	2,400
54A.70	105 x 35,5	29,5 x 160	55,0 x 365	2,800

Handles*

	L2 mm	L3 mm	kg
54.M1B	460	555 565	0,58
		730	
54.M2B	610	735 748	1,112
		910	
54.M3B	760	920 925	2,214
		1050	
54.M4B	860	1060 1065	2,881

Handles* * Suitable handles listed opposite wrench sizes.

Metric heavy-duty ring wrench set

54.P9M

• Supplied as panel sets..

	Handles		mm	kg
54.P9M	54.M1B, 54.M2B, 54.M3B	•	24 - 30 - 32 - 36 - 41 - 46 - 50 - 55	13,5

Ratchet ring wrenches

For ratchet ring wrenches, see page p. 147

Slogging wrench series

50 Metric and inch slogging ring wrenches

- 12-point ring giving 30° increments.
- For use with a sledge or air hammer for tightening or loosening fasteners on heavy equipment.
- Forged in high impact-strength steel.
- Paint finish

	B x C mm	L mm	kg
50.24	50 x 18	170	0,548
50.27	50 x 18	170	0,524
50.30	50 x 18	170	0,502
50.32	62 x 21	190	0,880
50.34	62 x 21	190	0,873
50.35	62 x 21	190	0,852
50.36	62 x 21	190	0,826
50.38	62 x 21	190	0,800
50.40	72 x 24	209	1,452
50.41-1'5/8	72 x 24	209	1,418
50.42	72 x 24	209	1,277
50.43-1'11/16	72 x 24	209	1,319
50.44	72 x 24	209	1,264
50.45	72 x 24	209	1,274
50.46-1'13/16	87,5 x 28	238	2,145
50.47	87,5 x 28	238	2,146
50.48	87,5 x 28	238	2,186
50.50	87,5 x 28	238	2,072
50.52	87,5 x 28	238	2,030
50.54	87,5 x 28	238	2,015
50.55	102 x 30	275	2,969
50.56	102 x 30	275	2,805
50.57-2'1/4	102 x 30	275	2,727
50.58	102 x 30	275	2,807
50.59	102 x 30	275	2,724
50.60-2'3/8	102 x 30	275	2,761
50.65-2'9/16	102 x 30	275	2,553
50.67-2'5/8	102 x 30	275	4,346

	B x C mm	L mm	kg
50.70-2'3/4	102 x 30	275	4,221
50.75-2'15/16	102 x 30	275	4,068
50.76-3'	102 x 30	275	3,962
50.78	142 x 38	358	6,440
50.80	142 x 38	358	6,301
50.85	142 x 38	358	6,041
50.90	142 x 38	358	5,750
50.95	142 x 38	358	9,245
50.100	142 x 38	358	8,946
50.105	142 x 38	358	8,705
50.110	142 x 38	358	14,633
50.115	142 x 38	358	13,941
50.120	142 x 38	358	13,698

51A Thin wall slogging ring wrenches

- Metric sizes from 32 to 85 mm.
- 12-point ring giving 30° increments.
- Thinner but higher walls fit into narrower spaces without compromising wrench strength.
- Paint finish

	B x C mm	L mm	kg
51A.32	49,0 x 23	195	0,6
51A.36	56,0 x 26	195	0,65
51A.41	61,0 x 29	200	0,8
51A.46	70,0 x 32	250	1,23
51A.50	73,0 x 35	280	1,35
51A.55	77,0 x 38	300	1,7
51A.58	77,0 x 38	300	1,58
51A.60	82,5 x 42	300	1,97
51A.65	90,5 x 45	320	2,52
51A.70	99,0 x 47	355	2,94
51A.75	106,0 x 53	360	3,77
51A.80	114,0 x 57	440	5,12
51A.85	117,0 x 57	440	5,1

The power to free or secure very tight fasteners

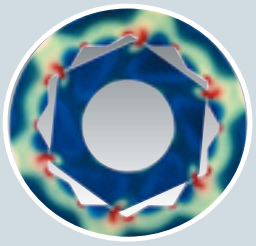
For manual impact wrenches see page 166

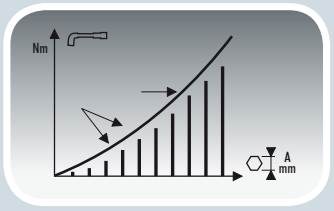
Standard series

OGV® angled open-socket wrenches

Facom OGV® profile

- *Facom OGV® 6 and 12-point profiles. extend contact area while reducing stress.*
- *Increased torque.*
- *Longer tool life.*
- *Protected fastener corners.*





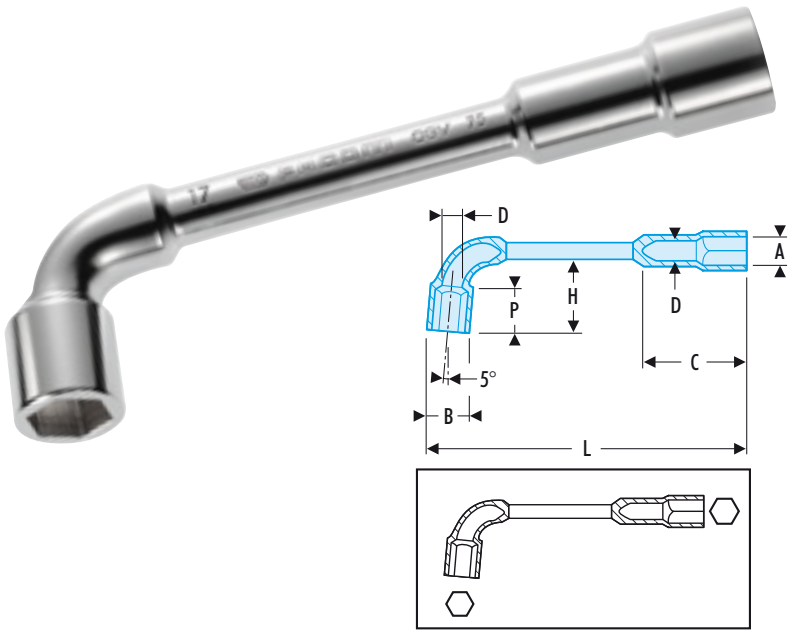
Through-hole and deep recess

- *Angle and through-hole design accommodates threaded rods or a bar for extra leverage, without affecting wrench strength.*
- *Deep recess at one end and open-end socket at the other fit over protruding studs*

75 Forged metric and inch 6 x 6 point OGV® angled open-socket wrenches

▷ ISO 2236, NF ISO 2236.
• Satin chrome finish.

A mm	A"	B mm	C mm	P mm	D mm	H mm	L mm	g
75.6	75.1/4	10	21	6	5	15	102	32
75.7		11	22	7	5	17	106	35
75.8	75.5/16	12,5	25	8	7	19	114	60
75.9		13,5	26	9	7	20	122	65
75.10	75.3/8	15	28	10	8	24	129	95
75.11	75.7/16	16,5	30	11	8	25	136	114
75.12		18	36	12	9	28	144	152
75.13	75.1/2	19,5	38	13	9	30	152	175
75.14		21	40	14	10,5	32	160	202
75.15	75.9/16	22,5	42	15	10,5	34	169	226
75.16	75.5/8	24	46	16	13	37	178	285
75.17		25,5	48	17	13	39	187	312
75.18	75.11/16	26,5	50	18	13	40	195	365
75.19	75.3/4	28,5	51	19	15	41	204	430
75.20		29,5	53	20	15	43	212	440
75.21	75.13/16	30,5	55	21	15	46	221	490
75.22		32	57	22	15	48	230	536
75.23	75.7/8	33,5	64	23	18	51	240	626
75.24	75.15/16	34,5	67	24	18	54	250	660
75.25		36	69	25	20	56	260	785
75.26	75.1'	37	70	26	20	57	270	795
75.27		38,5	73	27	22	58	280	950
75.28		39,5	75	28	22	60	290	950
75.29		41	76	29	22	62	300	1050
75.30		42	83	30	24	64	310	1300



A mm	A"	B mm	C mm	P mm	D mm	H mm	L mm	g
75.31		43,5	86	30	24	70	320	1385
75.32		44,5	88	31	24	74	330	1400
75.33		46	92	32	27	79	340	1480
75.34		47,5	95	33	27	80	350	1550
75.35		48,5	96	34	27	81	360	1630
75.36		49,5	97	35	27	82	370	1700
75.38		52	99	37	28	85	390	2080

75 Metric and inch angled socket wrench sets

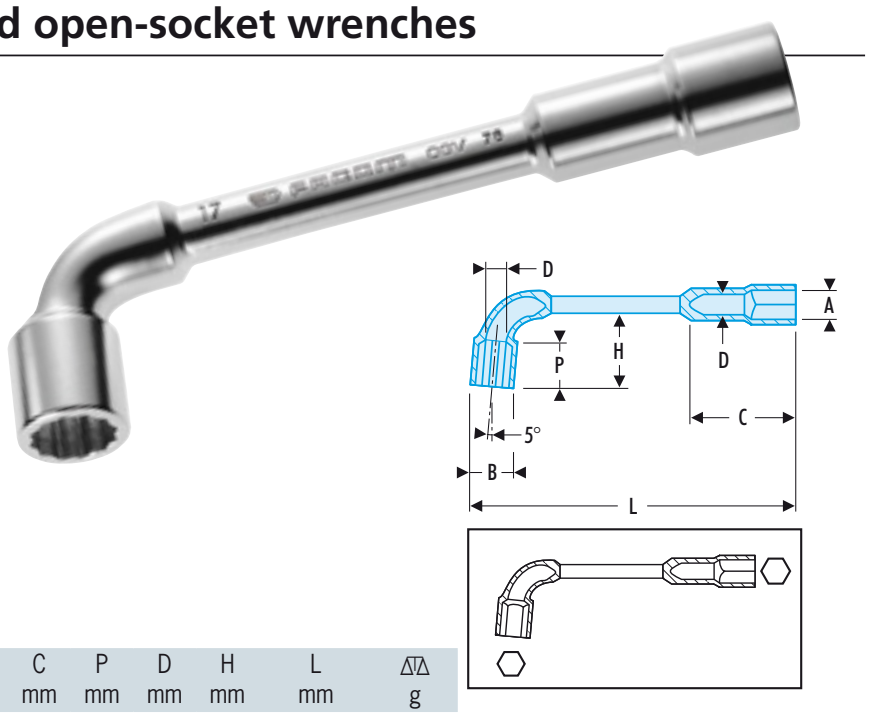
• Supplied as box, module and panel sets.

				mm/"	kg
75.JN8	•			8 - 10 - 11 - 13 - 17 - 19 - 22 - 24	2,37
75.JN10	•			8 - 10 - 11 - 12 - 13 - 14 - 16 - 17 - 18 - 19	2,16
75.J12	•			7 - 8 - 10 - 11 - 12 - 13 - 16 - 17 - 18 - 19 - 22 - 24	3,39
75.JE16	•			8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24	4,7
75.JU10	•			5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16 - 7/8	2,76
75.P22M		•		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 29 - 30 - 32	13,34
MOD.75-1			PL.625	8-10-11-12-13-14-16-17-18-19	2,480

76 Forged metric 12 x 6 point OGV® angled open-socket wrenches

▷ ISO 2236, NF ISO 2236.
• Satin chrome finish.

A mm	B mm	C mm	P mm	D mm	H mm	L mm	g
76.6	10	23	6	5	16	102	32
76.7	11	24	7	5	17	106	41
76.8	12,5	27	8	7	19	114	60
76.9	13,5	28	9	7	20	122	65
76.10	15	30	10	8	24	129	95
76.11	16,5	32	11	8	25	136	114
76.12	18	38	11	9	28	144	152
76.13	19,5	40	12	9	30	152	175
76.14	21	42	13	10,5	32	160	200
76.15	22,5	44	14	10,5	34	169	225
76.16	24	49	16	13	37	178	285
76.17	25,5	51	17	13	39	187	312
76.18	26,5	53	18	13	40	195	365
76.19	28,5	54	19	15	41	204	430
76.20	29,5	56	20	15	43	212	440
76.21	30,5	58	21	15	46	221	490
76.22	32	60	22	15	48	230	535
76.23	33,5	67	23	18	51	240	625
76.24	34,5	70	24	18	54	250	660
76.25	36	72	25	20	56	260	785
76.26	37	73	26	20	57	270	795
76.27	38	77	27	22	58	280	950
76.28	39,5	79	28	22	60	290	950
76.29	41	80	29	22	62	300	1050



A mm	B mm	C mm	P mm	D mm	H mm	L mm	g
76.30	42	87	30	24	64	310	1300
76.31	43,5	90	30	24	70	320	1385
76.32	44,5	92	31	24	74	330	1400
76.33	46	96	32	27	79	340	1480
76.34	47	99	33	27	80	350	1550
76.35	48,5	100	34	27	81	360	1630
76.36	49,5	101	35	27	82	370	1700
76.38	52	103	37	28	85	390	2080

76 Metric and inch angled socket wrench sets

• Supplied as box or panel sets.

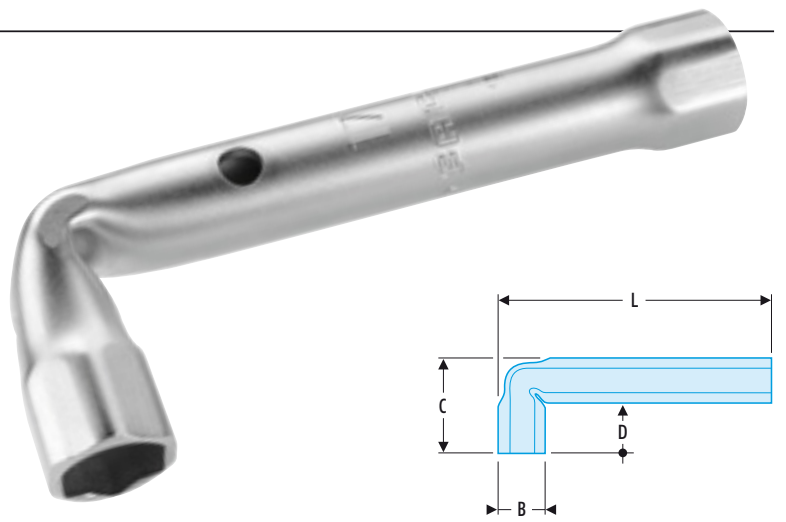
			mm/"	kg
76.JN8	•		8 - 10 - 11 - 13 - 17 - 19 - 22 - 24	2,37
76.JN10	•		8 - 10 - 11 - 12 - 13 - 14 - 16 - 17 - 18 - 19	2,16
76.JE16	•		8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24	4,7
76.P22M		•	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 - 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 29 - 30 - 32	13,34

Box wrench series

92A Metric angled box wrenches

▷ ISO 2236, NF ISO 2236.
• Will reach nuts on threaded rods.
• Through hole for inserting bar 160A.
• Chrome finish.

	Suitable bar	B mm	C mm	D mm	L mm	g
92A.4	160A.1	6,3	23,5	16,5	95	20
92A.5	160A.1	8,8	23,5	16,5	95	20
92A.5,5	160A.1	9,3	25	18	95	25
92A.6	160A.1	9,9	26,5	17,5	100	30
92A.7	160A.1	11,1	28,5	19,5	100	30
92A.8	160A.1	12,7	31,5	20,5	109	48
92A.9	160A.1	13,9	33	22	109	46
92A.10	160A.1	15,5	36,5	23,5	118	68
92A.11	160A.1	16,7	36,5	23,5	118	70
92A.12	160A.1	18,9	43	27	127	100
92A.13	160A.1	19,5	43	27	127	110
92A.14	160A.1	21,2	49	31	136	155
92A.15	160A.1	22,3	49	31	136	160
92A.16	160A.1	23,4	55	35	145	190
92A.17	160A.1	24,5	55	35	145	200
92A.18	160A.1	25,8	61	39	154	225
92A.19	160A.1	27	61	39	154	230
92A.20	160A.1	29,1	66,5	41,5	163	320



	Suitable bar	B mm	C mm	D mm	L mm	g
92A.21	160A.1	30,3	67,5	41,5	163	325
92A.22	160A.1	31,4	68	42	172	350
92A.23	160A.1	32,5	72,5	46,5	172	390
92A.24	160A.2	33,7	74,5	45,5	180	415
92A.27	160A.2 or 160A.3	38,2	81	49	190	520
92A.30	160A.2 or 160A.3	41,8	86,5	53,5	205	640
92A.32	160A.2 or 160A.3	44,5	93	57	215	785

92A Metric angled box wrench sets

• Supplied as box or rack sets.

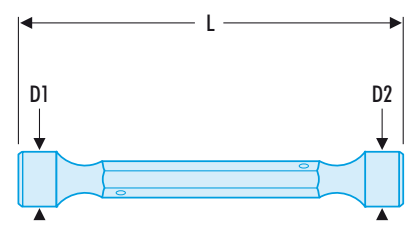
			mm	kg
92A.JE8	•		8-10-11-13-17-19-22-24	1,485
92A.P8M		•	8-10-11-13-17-19-22-24	1,875
92A.P16M		•	8-9-10-11-12-13-14-15-16-17-18-19-21-22-23-24	4

Tee socket series

97 Metric double-ended forged socket wrenches

▷ ISO 2236, DIN 896, NF ISO 2236.
• Dual-size tool.
• Hollow body allows insertion over long threaded rods.
• For use with bars 160A.
• 6-point sockets, hexagon tubing.

	Suitable bar	D1 x D2 mm	Ø mm	L mm	g
97.6X7	160A.1	9,5 x 10,7	4	110	32
97.8X9	160A.1	12,5 x 14	4	120	48
97.10X11	160A.1	15 x 16	6	130	66
97.12X13	160A.1	17,5 x 19	6	140	106
97.14X15	160A.1	20 x 21,5	6,5	150	138
97.16X17	160A.1	22,7 x 24	8,2	160	188
97.18X19	160A.1	25,2 x 26,5	8,2	170	238
97.20X22	160A.1	27,7 x 30,2	10,2	180	262
97.21X23	160A.1	29 x 31,2	10,2	185	294
97.24X26	160A.2 or 160A.3	33 x 35,5	12,5	190	416
97.25X28	160A.2 or 160A.3	34,5 x 38	12,5	195	442
97.27X29	160A.2 or160A.3	37 x 39,5	12,5	200	504
97.30X32	160A.2 or 160A.3	40,5 x 43	12,5	200	630



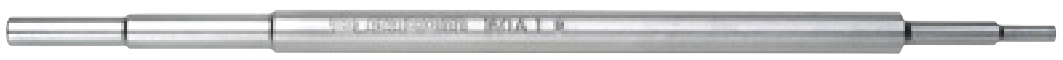
97 Metric double-ended forged socket wrench sets

• Supplied as box or module sets

			mm	kg
97.JE6	•		8x9 - 10x11 - 12x13 - 14x15 - 16x17 -18x19	0,77
MOD.97		PL.359	8x9 -10x11 - 12x13	1.019

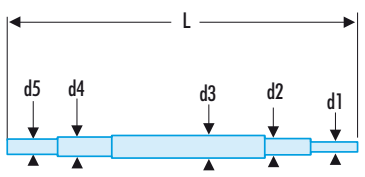
160A Bars for wrenches 91A, 92A and 97

• Hardened chrome steel.
• Shape 1 for 160A.1.
• Shape 2 for 160A.2 and 160A.3.
• Chrome finish.



	d1 mm	d2 mm	d3 mm	d4 mm	d5 mm	L mm	g
160A.1	3,8	5,25	9	7,4	6,25	220	80
160A.2	10,75	12,25	13	-	-	300	280
160A.3	12,25	14,25	18	-	-	350	380

1



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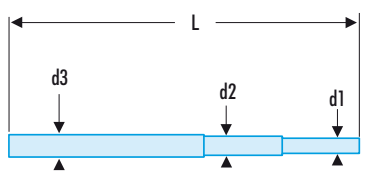
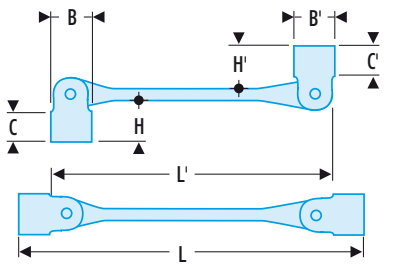


Hinged series

66A Metric and inch hinged socket wrenches

▷ Strength to ISO 1711-1, NF ISO 1711-1.
• Spring-steadied pivoting 12-point OGV®.
• socket.
• Satin chrome finish.

	B x B' mm	C x C' mm	H x H' mm	L' mm	L mm	g
66A.6X7	10,3 x 11,5	15 x 15	23 x 23	156	188,5	95
66A.8X9	12,6 x 13,85	15 x 15	23 x 23	156	188,5	100
66A.10X11	15 x 16,5	18 x 18	26 x 26	156	194,5	105
66A.10X13	15 x 19	21 x 21	31 x 31	189,5	233,5	190
66A.12X13	17,5 x 19	21 x 21	31 x 31	189,5	233,5	195
66A.14X15	20,5 x 21,75	23 x 23	33 x 33	231	237,5	215
66A.16X17	23 x 24	23 x 23	35 x 35	231	280	325
66A.16X18	23 x 24,7	23 x 24	35 x 36	231	281	330
66A.18X19	24,7 x 26	24 x 28	36 x 40	231	286	345
66A.20X22	27,3 x 30,5	28 x 28	41,5 x 41,5	270	329	515
66A.21X23	28,6 x 31,5	28 x 30	41,5 x 43,5	270	331	535
66A.24X27	33 x 36,7	33 x 33	50,5 x 50,5	312	381	1020
66A.30X32	40,5 x 43	36 x 36	53,5 x 53,5	312	387	1100
66A.3/8X7/16	15 x 16,5	18 x 18	26 x 26	156	164,5	105
66A.1/2X9/16	19 x 20,5	21 x 23	31 x 33	189,5	235,5	215
66A.5/8X11/16	23 x 24,7	23 x 24	35 x 36	231	281	335
66A.5/8X3/4	23 x 26	23 x 28	35 x 40	231	285	340



66A Metric and inch wrench sets

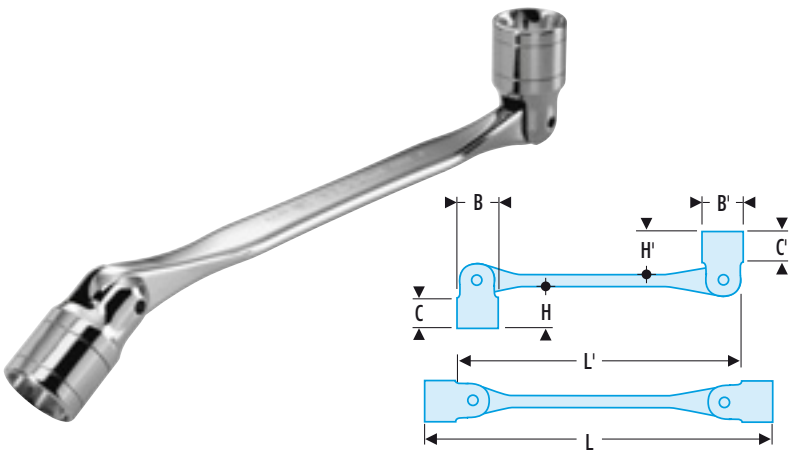
• Supplied as box, roll or module sets.

				mm/"	kg
66A.JE6			•	8x9-10x11-12x13-14x15-16x17-18x19	1,3
66A.JE9			•	6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23	2,45
66A.JU3			•	3/8x7/16-1/2x9/16-5/8x3/4	0,67
66A.JE9T	N.38A-9B			6x7-8x9-10x11-12x13-14x15-16x17-18x19-20x22-21x23	2,55
66A.JE6T	N.38A-6B			89-10x11-12x13-14x15-16x17-18x19	1,150
MOD.66A-1		PL.319A		6x7 - 8x9 - 10x11-12x13 - 14x15- 16x17	0,940
MOD.66A-2		PL.320		18x19- 20x22 - 21x23	1,600

66TX TORX® hinged socket wrenches

• Spring-steadied TORX® sockets.
• Satin chrome finish.

	B x B' mm	C x C' mm	H x H' mm	L mm	L' mm	g
66TX.6X8	8 x 10	5 x 7	22 x 22	186	156	82
66TX.10X12	13 x 15	7,5 x 8	27 x 27	224,5	189,5	175
66TX.14X18	17 x 20,5	10 x 12	32 x 34	274	231	329
66TX.20X24	23,5 x 28	13 x 18	38 x 42	323	270	528

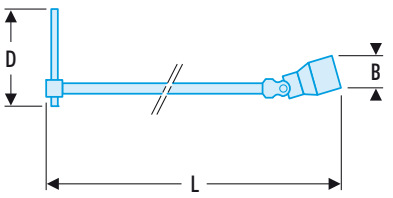


Universal joint series

99C Tee socket-wrench with universal joint

▷ Strength to ISO 2236, DIN 896, NF ISO 2236.
• Spring-steadied socket.
• Satin chrome finish with polished chrome socket.

	B mm	D mm	L mm	g
99C.6	10,3	165	399	225
99C.7	10,3	165	399	225
99C.8	12,6	165	399	225
99C.9	13,8	175	399	225
99C.10	15,0	175	431	325
99C.11	16,5	175	431	325
99C.12	17,5	175	434	335
99C.13	19,0	175	466	415
99C.14	20,5	175	466	430
99C.15	21,7	180	498	545
99C.16	23,0	180	499	560
99C.17	24,0	180	499	560
99C.18	24,7	180	501	570
99C.19	26,0	220	523	860



99C Metric wrench sets

• Supplied as box or panel sets.

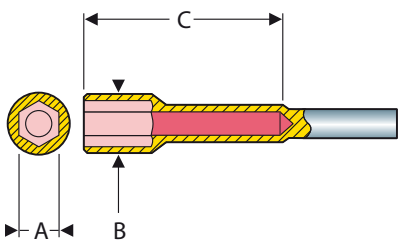
				mm/"	kg
99C.JE12	•			7; 8; 9; 10; 11; 12; 13; 14; 16; 17; 18; 19	4,55
99C.JE8	•			8; 9; 10; 11; 12; 13; 14; 17	2,84
99C.P12E		•		7; 8; 9; 10; 11; 12; 13; 14; 16; 17; 18; 19	6,85
99C.P8E		•		8; 9; 10; 11; 12; 13; 14; 17	5,20
MOD.99B			PL.304	7; 8; 10; 11; 13; 17; 19	4,010

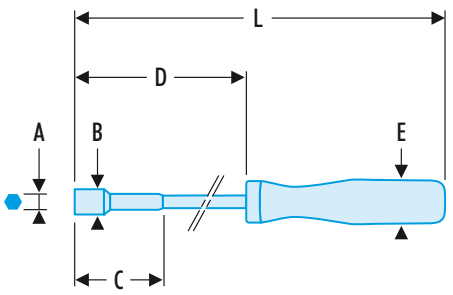
Nut spinner series

74 Metric and inch forged 6-point nut spinners

▷ ISO 2236, DIN 3125, NF ISO 2236.
• High-strength forged carbon steel.
• Permanently moulded acetate handle, resists oil, grease and hydrocarbons.
• Ideal for light engineering.
• Polished chrome finish.

A mm	A"	B mm	C mm	D mm	E mm	L mm	g
74.3,2		6,0	20	125	25	230	70
74.4		7,0	20	125	25	230	75
74.4,5	74.3/16	7,5	25	125	25	230	77
74.5	74.7/32	8,0	25	125	25	230	80
74.5,5		8,0	30	125	25	230	82
74.6	74.1/4	9,5	35	125	25	230	100
74.7	74.9/32	9,5	35	125	25	230	100
74.8	74.5/16	12,0	50	125	28	240	129
74.9	74.11/32	12,0	50	125	28	240	129
74.10	74.3/8	14,5	50	125	28	240	134
74.11	74.7/16	16,0	50	125	28	240	139
74.12		17,0	50	125	28	240	141
74.13		18,5	55	125	28	240	144
74.14		20,0	55	125	28	240	147





74 Metric wrench sets

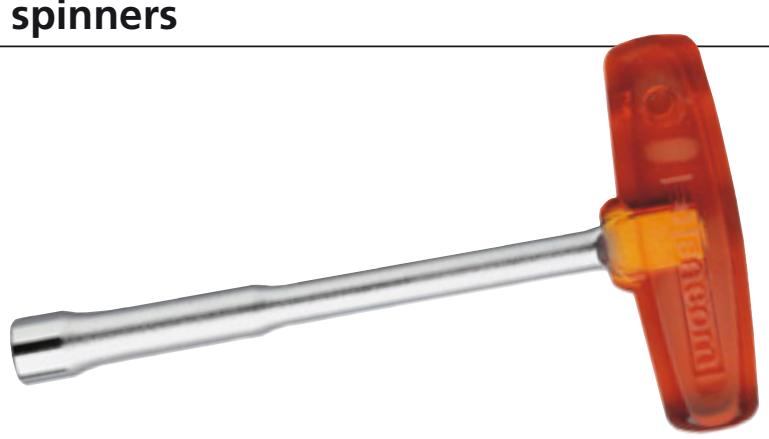
• Supplied as wallet or rack sets.

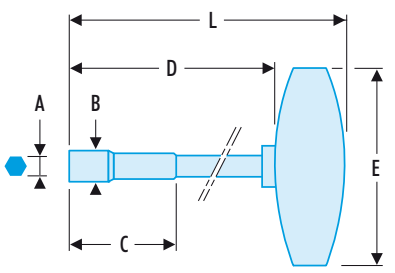
			mm	kg
74.JL9	N.38A-10D		3,2 - 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10	1
74.JL14	•		3,2 - 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14	1,69
74.P14E		•	3,2 - 4 - 4,5 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14	1,81

74T Metric forged Tee-handled 6-point nut spinners

• For higher torques.
• High-strength forged carbon steel.
• Permanently moulded acetate tee-handle resists oil, grease and hydrocarbons.
• Polished chrome finish.

	A mm	E mm	B mm	C mm	D mm	L mm	g
74T.5	5	85	8	25	130	160	80
74T.5,5	5,5	85	9	30	130	160	85
74T.6	6	85	9	35	130	160	100
74T.7	7	85	11	35	130	160	115
74T.8	8	85	12	50	130	160	120
74T.9	9	85	13	50	130	160	120
74T.10	10	85	14	50	130	160	125
74T.11	11	85	16	50	130	160	130
74T.12	12	85	18	50	130	160	132
74T.13	13	85	19	55	130	160	135
74T.14	14	85	20	55	130	160	138

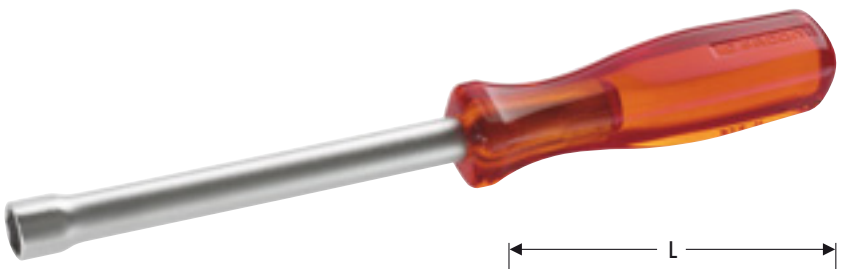


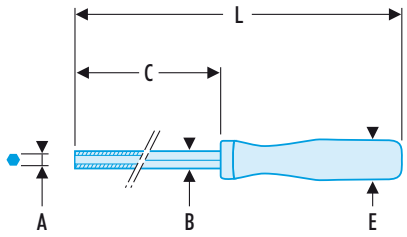


94A Metric box-shank nut spinners

• Ideal for long threaded rods.
• Chrome finish.

	A mm	B mm	C mm	E mm	L mm	g
94A.3,2	3,2	7	125	25	225	70
94A.4	4	7	125	25	225	75
94A.5	5	7	125	25	225	80
94A.5,5	5,5	7	125	25	225	100
94A.6	6	9	125	28	235	110
94A.7	7	9	125	28	235	125
94A.8	8	11	125	28	235	152
94A.9	9	11	125	28	235	160
94A.10	10	13	125	32	245	165
94A.11	11	13	125	32	245	245
94A.12	12	16	125	39	260	260
94A.13	13	16	125	39	260	275
94A.14	14	18	125	39	260	280





94A Metric box-shank nut spinner sets

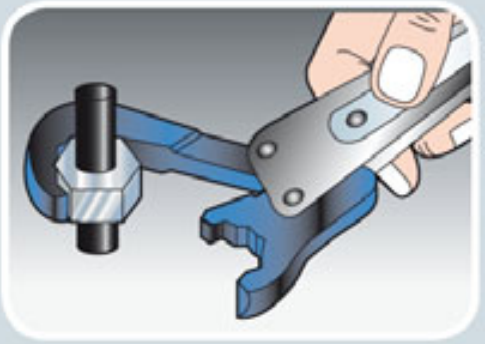
• Supplied as wallet sets.

		mm	kg
94A.JL9	N.38A-10D	3,2-4-5-5,5-6-7-8-9-10	1,2
94A.JE13T	N.38A-14A	3,2-4-5-5,5-6-7-8-9-10-11-12-13-14	2,295

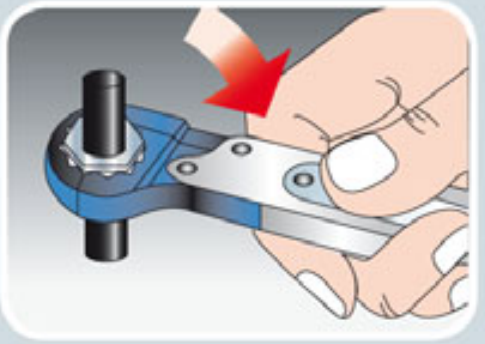
70 Ratchet flare-nut wrenches

70 series - Ratchet flare-nut wrenches

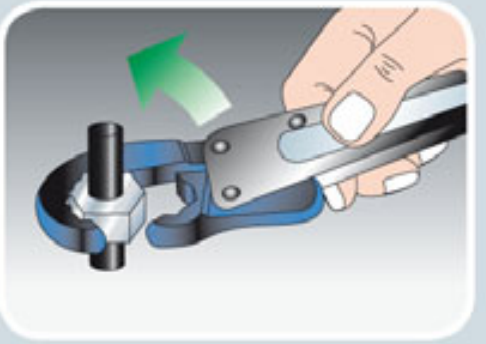
RATCHET EFFECT AND ACCESSIBILITY



- *Positioning is straightforward, even with little clearance around the pipe.*



- *Torque is applied over all six flats for optimum drive.*



- *Ratchet action without wrench removal completes work five times faster than with a conventional tool.*

70A Metric ratchet flare-nut wrenches

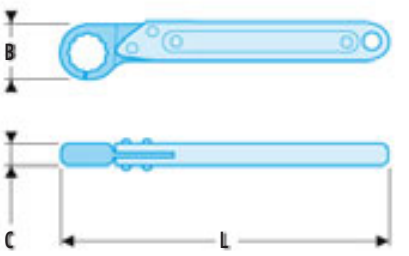
- Metric sizes from 7 to 32 mm.
- 6-point heads up to 11 mm.
- Finish :

- chrome with burnished head up to 24 mm.
- burnished from 27 to 32 mm.

- Fast tools for pipe unions in a variety of applications such as automotive, construction, air conditioning, refrigeration, aircraft and plumbing.
- 70A.27, 70A.30, 70A.32 : Heavy-duty model, burnished finish, PVC

70A.13

70A.27



	B mm	C mm	L mm	g
70A.7	25,4	7,1	137,5	75
70A.8	25,4	7,1	137,5	75
70A.9	25,4	7,1	137,5	73
70A.10	25,4	7,1	137,5	73
70A.11	25,4	7,1	137,5	73
70A.12	25,4	7,1	137,5	70
70A.13	25,4	7,1	137,5	70
70A.14	33,5	9,6	184	140
70A.16	33,5	9,6	184	140
70A.17	33,5	9,6	184	135
70A.18	33,5	9,6	184	135
70A.19	33,5	9,6	184	130
70A.22	42,4	11,2	237,5	260
70A.24	42,4	12,9	237,5	260
70A.27	55,8	14,2	346	505
70A.30	55,8	14,2	346	480
70A.32	55,8	14,2	346	470

70A Metric ratchet flare-nut wrench sets

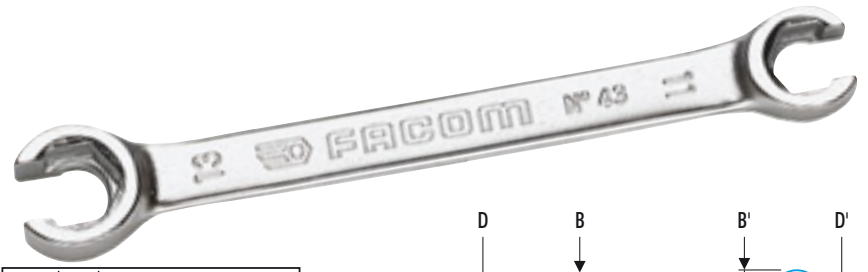
- Supplied as box or roll sets.

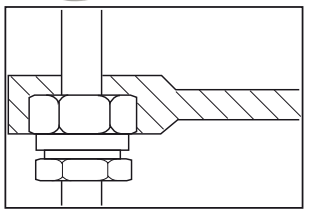
			mm	g
70A.JN6		•	8 - 10 - 11 - 13 - 17 - 19	560
70A.JE7T	N.38A-7B		7 - 8 - 9 - 10 - 11 - 12 - 13	550
70A.JE5T	N.38A-5A		14 - 16 - 17 - 18 - 19	720

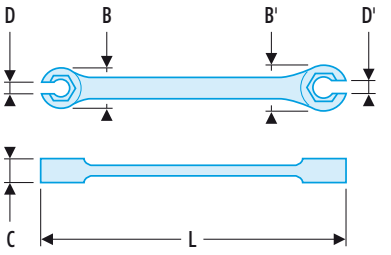
Standard series

43 Flanged flare-nut wrenches

• Metric sizes from 7 to 19 mm.
• Flange strengthened 6-point split ring for use on stubborn fittings such as seized pipe unions.
• Short shank for easier handling.
• Chrome finish.







	B x B' mm	C mm	D x D' mm	L mm	g
43.7X9	15,6 x 18,3	10	5,0 x 6,6	124	38
43.8X10	16,6 x 19,1	10	5,9 x 7,4	124	40
43.10X11	19,1 x 20	10	7,4 x 8,1	124	43
43.11X13	20 x 22,9	11,5	8,1 x 9,5	143	63
43.12X14	22,3 x 24,6	11,5	8,9 x 10,3	143	66
43.17X19	28,3 x 31,4	13	12,6 x 14,1	162	100

43 Flanged flare-nut wrench sets

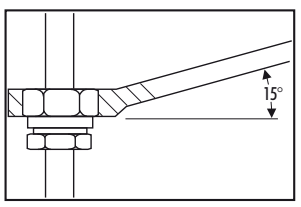
• Supplied in a wallet or module

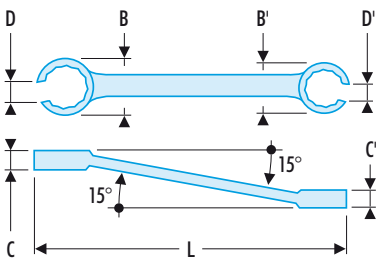
			mm	kg
43.JE5T	N.38A-5B		7x9-8x10-11x13-12x14-17x19	0,330
MOD.43		PL.365	7x9 - 8x10 -11x13 - 12x14 - 17x19	0,960

42 Metric and inch flare-nut wrenches angled at 15°

▷ DIN 3118.
• Metric sizes from 8 to 41 mm.
• Inch sizes from 5/16" x 3/8" to 1" x 1 1/8".
• 6-point heads up to 12 x 14 mm.
• Chrome finish.

A mm	A"	B x B' mm	C mm	D x D' mm	L mm	g
42.8X10	**42.5/16x3/8**	18 x 20	7 x 8,5	6 x 7	140	55
42.10X11		20 x 22	8,5 x 9	7 x 8,5	150	65
42.10X12		20 x 22	8,5 x 9	7 x 9	150	65
42.11X13	**42.7/16x1/2**	22 x 26	9 x 10,5	8,5 x 10	165	110
42.12X14		24 x 28	9,5 x 11	9 x 11	170	120
42.14X17	**42.9/16x5/8**	28 x 30	11 x 12	11 x 14	200	135
42.17X19	**42.11/16x3/4**	30 x 32	12 x 14	14 x 15	210	175
42.19X22	**42.3/4x7/8**	32 x 38	14 x 16	15 x 17	220	210
42.22X24		38 x 42	16 x 17	17 x 18	235	270
42.24X27	**42.1'x1'1/8**	42 x 46	17 x 18	18 x 20	255	290
42.30X32		50 x 52	21 x 23	22 x 24	275	480
42.36X41		60 x 67	25 x 27	25 x 32	310	1100





Set of 5 flare-nut wrench angled at 15°

42.JE5T

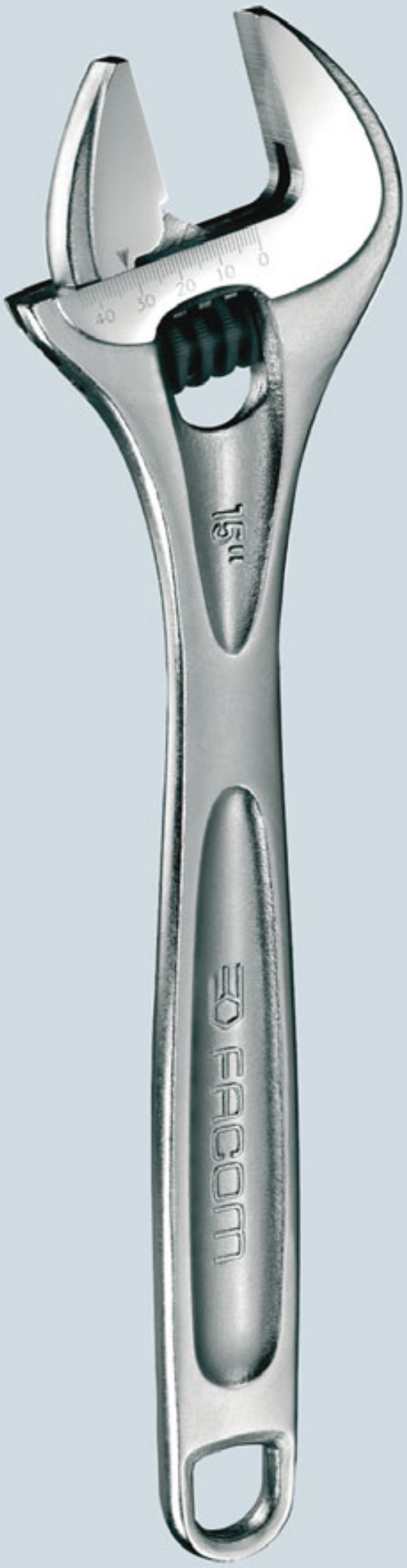
• Supplied as roll sets.

		mm	g
42.JE5T	N.38A-5A	8x10-11x13-12x14-17x19-22x24	770

Adjustable series

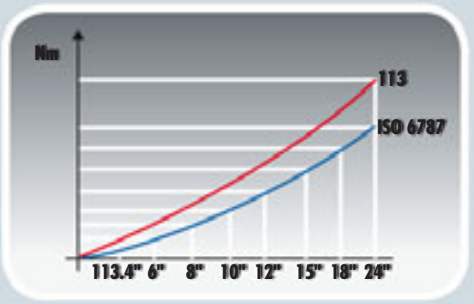
Series 113A adjustable wrenches

HIGH-PERFORMANCE AND MANOEUVRABILITY



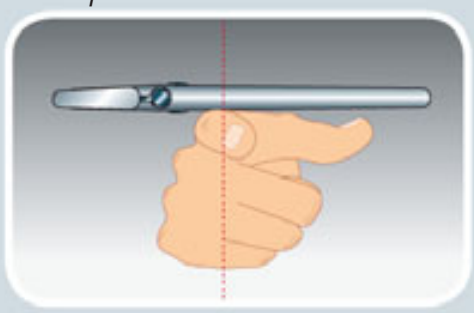
Powerful

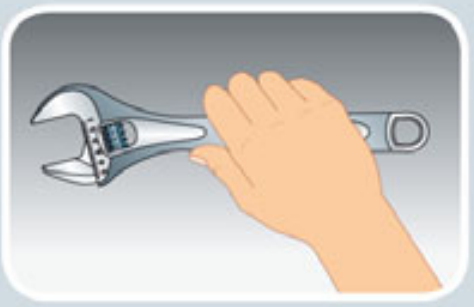
- *Performance exceeds standard specifications.*
- *ISO 6787, DIN 3117 NF E 74-324.*
- *ASME B 107.8m-1996 (US. nat.std).*



Ergonomic

- *Optimised contact surfaces for maximum user comfort.*
- *Contoured handle for improved handling.*
- *Ergonomic worm screw :*
  - Optimised finger contact area.
  - Improved worm screw access.



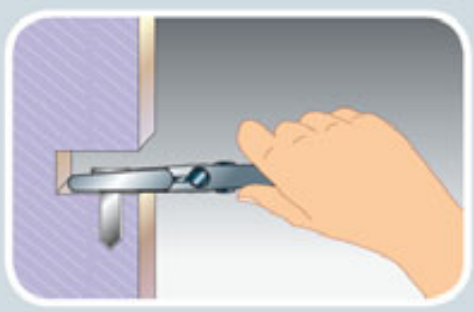


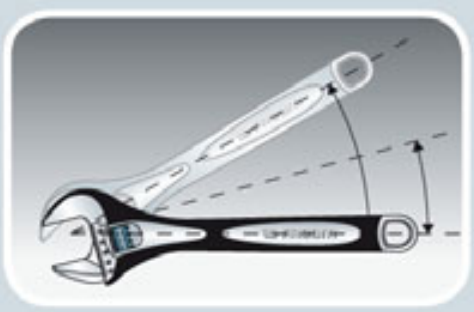
Versatile

- *Millimetre graduations :*
  - Reading measurements,
  - Wrench presetting.
- *Non-protruding moving jaw at maximum capacity.*

For greater accessibility

- *Head angled at 15° for easier repositioning.*
- *Tapered jaw tips for optimum access.*

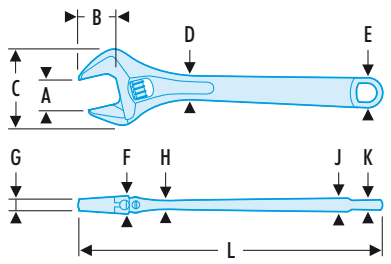




Variable opening wrenches

Series 113A.C Chromed adjustable wrenches

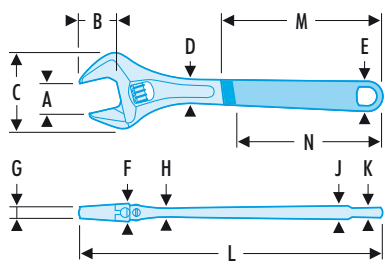
▷ Strength to ISO 6787, DIN 3117, NF ISO 6787, ASME B 107.8 M.
- Chromed body and polished jaw faces.
- Contoured handle for improved handling.
- Improved worm screw access.
- Tapered jaw tips for optimum access.
- Non-protruding moving jaw at maximum capacity.
- Millimetre graduations for pre-setting jaw opening.
- Clockwise rotating worm screw.
- Sizes from 4" to 24".
- Registered design.



	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	⚖ g
113A.4C	13	13	34	11	14	9,5	4,5	5	6,5	5	114	65
113A.6C	20	19	45,0	14,8	18,5	11,8	5	6	8,3	5,8	155	125
113A.8C	27	24	61,5	18,5	24	13,5	6,5	9	11	8,5	206	275
113A.10C	30	29	69,5	21,5	28,5	15,5	9	9,5	12,7	10	255	480
113A.12C	34	34	80	25	31	18	10	10,2	13	10	306	700
113A.15C	44	44	97	28	35	20	13,5	12	14,8	11,5	380	1146
113A.18C	53	53	115	31	38,5	22,5	16	14,3	17,8	13,5	456	1792
113C.24C	62	61	132	42	38	31	17	17	15	15	612	3495

Series 113A.CG Sheathed and chromed adjustable wrenches

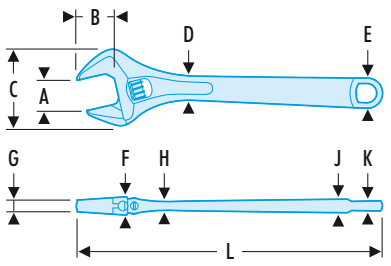
▷ Strength to ISO 6787, DIN 3117, NF ISO 6787, ASME B 107.8 M.
- Sheathed and chromed body, polished jaws.
- Contoured handle for improved handling.
- Improved worm screw access.
- Tapered jaw tips for optimum access.
- Non-protruding moving jaw at maximum capacity.
- Millimetre graduations for pre-setting jaw opening.
- Counter clockwise rotating worm screw.
- Sizes from 4" to 12".
- Registered design.



	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	M mm	N mm	⚖ g
113A.4CG	13	13	34,0	11,0	18,5	9,5	4,5	5,0	9,5	6,0	116	65,5	65,0	75
113A.6CG	20	19	45,0	14,8	24,0	11,8	5,0	6,0	12,0	8,0	159	90,5	80,0	140
113A.8CG	27	24	61,5	18,5	31,0	13,5	6,5	9,0	14,5	10,0	209	123,0	109,0	310
113A.10CG	30	29	69,5	21,5	36,5	15,5	9,0	9,5	17,5	12,5	259	157,5	140,0	510
113A.12CG	34	34	80,0	25,0	39,5	18,0	10,1	10,2	19,5	14	310	189,5	169,5	740

113A.T Phosphated adjustable wrenches

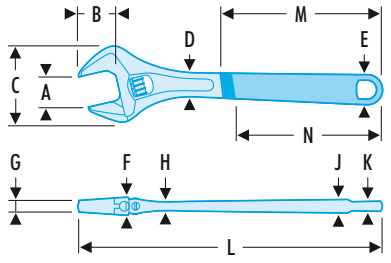
▷ Strength to ISO 6787, DIN 3117, NF ISO 6787, ASME B 107.8 M.
- Contoured handle for improved handling.
- Improved worm screw access.
- Tapered jaw tips for optimum access.
- Non-protruding moving jaw at maximum capacity.
- Millimetre graduations for pre-setting jaw opening.
- Counter clockwise rotating worm screw.
- Phosphated body, fine-ground jaw faces.
- Sizes from 4" to 24".
- Registered design.



	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	⚖ g
113A.4T	13	13	34	11	14	9,5	4.5	5	6,5	5	114	65
113A.6T	20	19	45	14,8	18,5	11.8	5	6	8,3	5,8	155	125
113A.8T	27	24	61,5	18,5	24	13,5	6,5	9	11	8,5	206	275
113A.10T	30	29	69,5	21,5	28,5	15.5	9	9,5	12,7	10	255	480
113A.12T	34	34	80	25	31	18	10	10,2	13	10	306	700
113A.15T	44	44	97	28	35	20	13,5	12	14,8	11,5	380	1146
113A.18T	53	53	115	31	38,5	22.5	16	14,3	17,8	13,5	456	1792
113.24T	62	61	132	42	38	31	17	17	15	15	612	3265

113A.TG Sheathed and phosphated adjustable wrenches

▷ Strength to ISO 6787, DIN 3117, NF ISO 6787, ASME B 107.8 M.
- Contoured handle for improved handling.
- Improved worm screw access.
- Tapered jaw tips for optimum access.
- Non-protruding moving jaw at maximum capacity.
- Millimetre graduations for pre-setting jaw opening.
- Counter clockwise rotating worm screw.
- Sheathed, phosphated body, fine-ground jaw faces.
- Sizes from 4" to 12".
- Registered design.

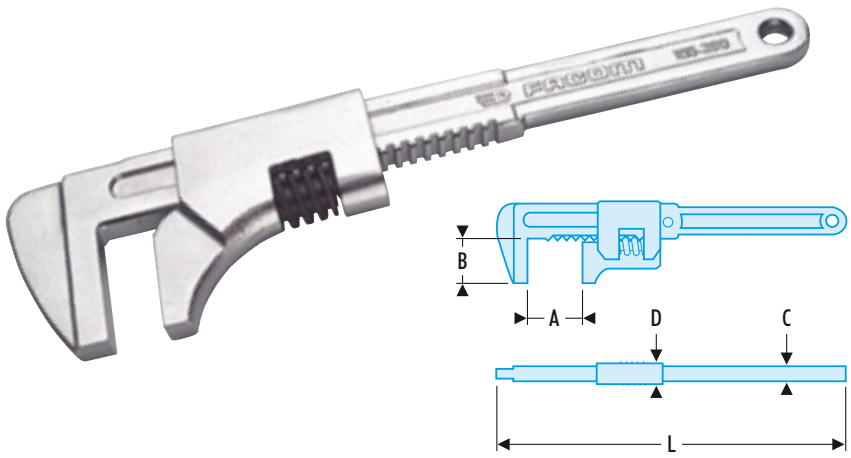


	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	M mm	N mm	⚖ g
113A.4TG	13	13	34,0	11,0	18,5	9,5	4,5	5,0	9.5	6.0	116	65,5	65,0	75
113A.6TG	20	19	45,0	14,8	24,0	11.8	5,0	6,0	12.0	8.0	159	90.5	80,0	140
113A.8TG	27	24	61,5	18,5	31,0	13,5	6,5	9,0	14.5	10,0	209	123,0	109,0	310
113A.10TG	30	29	69,5	21,5	36,5	15.5	9,0	9,5	17,5	12,5	259	157.5	140,0	510
113A.12TG	34	34	80,0	25,0	39,5	18,0	10.1	10,2	19.5	14,5	310	189,5	169,5	740

Monkey wrench series

105 Monkey wrenches

- 3 models, jaw capacities 60 - 70 - 80 mm.
- Sturdy, wide-opening tools for heavy-duty work on farms and building sites.
- Body and worm in hardened steel.
- Ground and chrome finish.



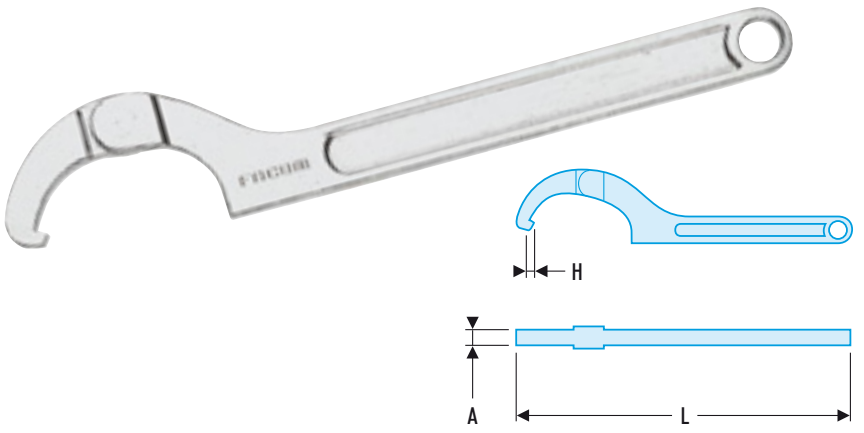
	A max mm	B mm	C mm	D mm	L mm	⚖ kg
105.230	60	34	10	17	230	0,480
105.280	70	45	11	20	280	0,810
105.375	80	45	13	22	375	1,440

Series for side-slot nuts

125A Hinged hook wrenches

- Capacity 15 to 180 mm.
- Joint fitted with a spring-washer for smooth, reliable operation.
- Five wrench sizes equate to three times as many conventional C-wrenches.
- Chrome finish.

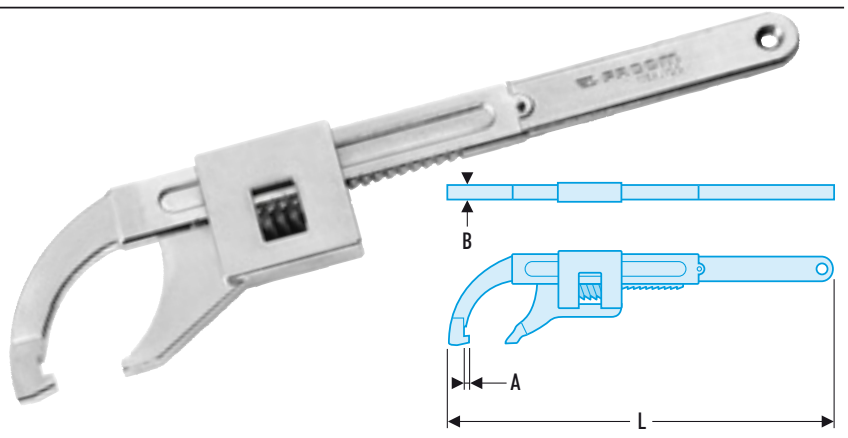
	mm	A mm	H mm	L mm	kg
125A.35	15 - 35	5	3,0	168	0,08
125A.50	35 - 50	6	4,0	202	0,17
125A.80	50 - 80	8	5,0	280	0,38
125A.120	80 - 120	9	5,5	345	0,7
125A.180	120 - 180	11	7,5	492	1,48



115A Adjustable hook wrench

- Capacity 10 to 200 mm.
- Chrome finish.

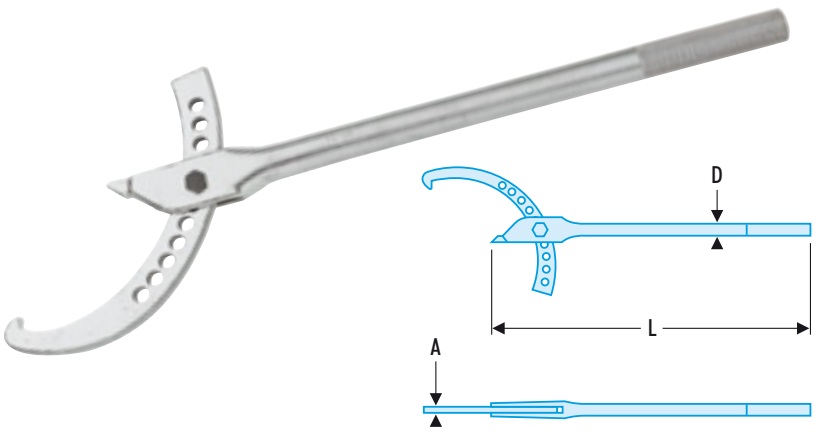
	mm	A mm	B mm	L mm	kg
115A.50	10 - 50	4	7,5	215	0,34
115A.100	20 - 100	5	8,0	360	0,8
115A.200	30 - 200	7	10,0	550	1,86



119 Heavy-duty hook wrenches

- Capacity 120 to 324 mm.
- With its 11-hole adjustment, this wrench alone replaces a variety of conventional tools in heavy-duty applications.
- Chrome finish.
- Forged hook, hardened to 44 HRc.

	mm	A mm	D mm	L mm	kg
119.3/8	120 - 224	9,5	26	610	3,16
119.3/4	220 - 324	19	33	650	5,9

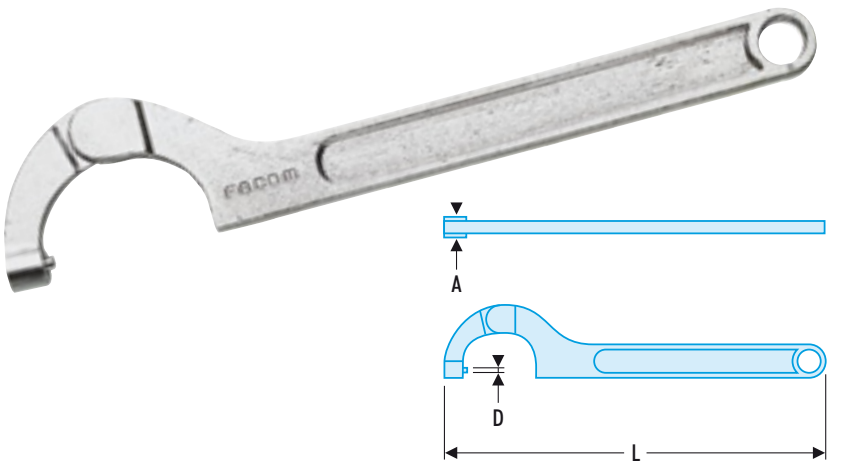


Series for side-hole nuts

126A Hinged pin wrenches

- For nuts with side holes.
- Interchangeable pins.
- Capacity 15 to 180 mm.
- Same design advantages as wrench "125A" but with interchangeable pins for nuts with holes around the side.
- Five sizes cover the full range of conventional fixed wrenches.
- Pins hardened to 40 HRc.

	mm	D mm	A mm	L mm	kg
126A.35	15 - 35	3	10	168	0,08
126A.50	35 - 50	4	12	202	0,17
126A.80	50 - 80	5	14	280	0,36
126A.120	80 - 120	6	18	345	0,7
126A.180	120 - 180	8	20	492	1,44



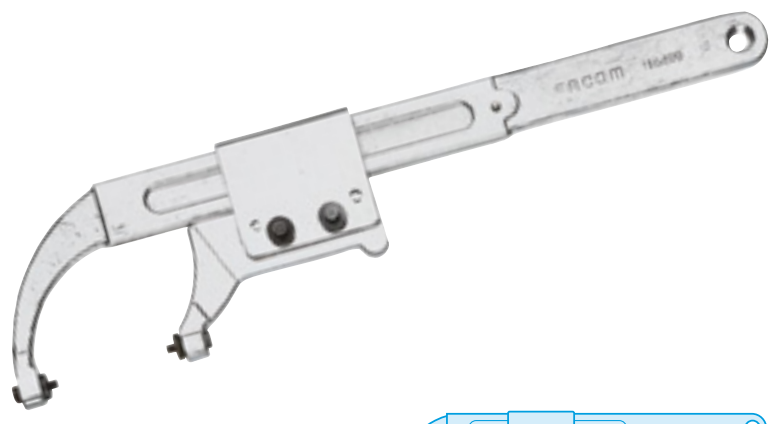
126.E Sets of 2 spare pins

	Ø mm	g
126.E35	3	2
126.E50	4	5
126.E80	5	9
126.E120	6	19
126.E180	8	34

116 Sliding-jaw pin wrenches

- For nuts with side holes.
- Interchangeable pins.
- Capacity 0 to 200 mm.
- Moving jaw simply slides along the shank and is self-locking on to the nut.
- Supplied with two sets of easy-to-change pins.
- Chrome-finish body, phosphated pins.

	mm	D mm	A mm	L mm	kg
116.50	0 - 50	2,5 - 4	8	210	0,38
116.100	0 - 100	4 - 6	12	360	0,82
116.200	35 - 200	6 - 8	16	550	1,96



116E Sets of 2 spare pins

	For key	Ø mm	g
116.50E1	116.50	2,5	6
116.50E2	116.50	4	6
116.100E1	116.100	4	15
116.100E2	116.100	6	16
116.200E1	116.200	6	36
116.200E2	116.200	8	36

Series for top-hole nuts

Wrenches for nuts with top holes

117.B

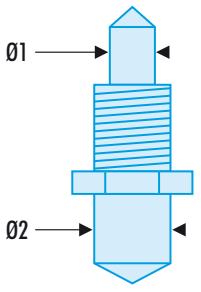
- Interchangeable pins.
- Forged in chrome vanadium steel, with divider-type adjustment controlled from central knurl. Each wrench supplied with a set of 8 pins.
- Set of 2 spare pins.
- Double-ended round pins for nuts with top holes.
- Chrome finish.

	Length mm	Capacity mm	⧋ g
117.B	245	20 - 100	530

117.E Sets of 2 spare pins

- Double-ended round pins for nuts with top holes.

	Ø1 - Ø2 mm	⧋ g
117.E1	2,5 - 4	16
117.E2	6 - 8	24
117.E3	3 - 5	17
117.E4	7 - 9	27



Wrench for nuts with top slots

118A

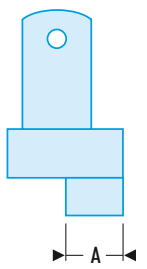
- Interchangeable pins.
- Capacity 20 to 100 mm.
- Forged in chrome vanadium steel, with divider-type adjustment controlled from central knurl.
- Each wrench supplied with a set of 8 pins.
- Length 245 mm.
- Chrome finish.

⧋ : 530 g.

118.EC Sets of 2 spare pins

- Square pins for nuts with top slots.

	A mm	⧋ g
118.EC4	4	11
118.EC5	5	12
118.EC6	6	14
118.EC8	8	17



5. Ratchets/Sockets

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Dynapact manual impact wrench 259

366 Impact screwdriver

NEW

Compact multi-service set.

Essential torquing and screw-driving tool set with a foam tray

Advantages

- High density foam resists crushing and hydrocarbons
- Visual identification of missing tools
- Tools more securely held

N 174

NEW

3/8" "locking" ratchets

The Facom locking system

Advantages

- High pull-off resistance, no more lost sockets
- Easy release, even with slippery hands
- Low return torque

N 194

NEW

Instant identification

Advantages

- Saves time
- Compatible with 6 and 12-point sockets
- Resistant to abrasion, lubricants, etc.

N 170

NEW

A heavy duty ratchet for any job and any situation

Advantages

- Durable: mechanism protected against ingress of external elements
- Easy to use
- Safe: plunger ratchet/socket/ accessory locking system

N 234

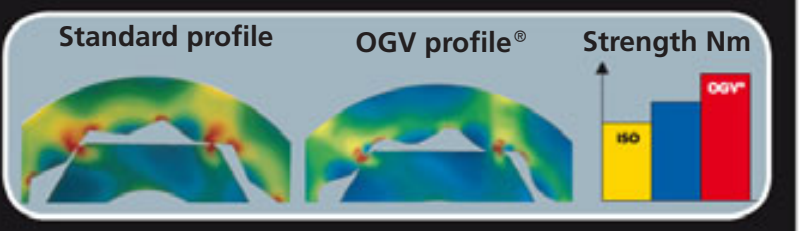
Facom sockets

Facom OGV® profile

HIGHER TORQUE WITHOUT DAMAGE TO FASTENERS !

The OGV® profile is achieved by a succession of curves instead of the flats found in conventional sockets®.

- ***More powerful tightening :***
  Larger contact area between socket and fastener minimises stress.
- ***Less wear :***
  Torque is transmitted through the fastener flats instead of the corners.
- ***Increased durability :***
  Stress concentration in the corners is eliminated.



TAG socket inserts

- Immediately identify your sockets.
- 6- or 12 point sockets.

⇉ TAG

Choosing your socket

1. Choose the size

Nut sizes may be metric or in inches.

mm ? inch ?

2. Standard or long-reach socket ?

- The standard socket

overcomes the problem of protruding threaded rods or difficulty of access with an extension.

3. 6-point or 12-point socket ?

6

- securely grips the nut.
- limits slippage in particular on damaged nuts.

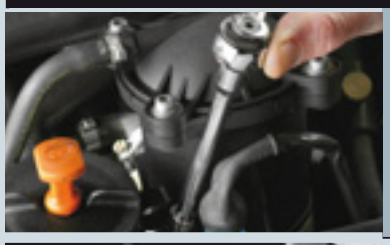
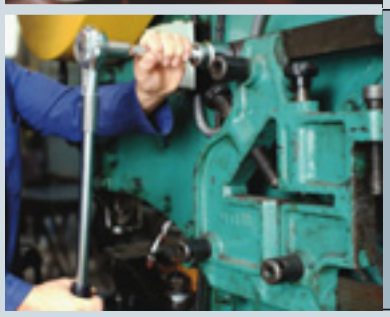
12

- allows a more instinctive placement on the nut.
- is used for tightening 12 point nuts.

Facom socket range

Premium service : a wide range of sockets

- **Service :**
  The FACOM range includes over 1500 different ratchets, sockets, accessories and sets to meet your every need.
- **Performance :**
  The performance of Facom's ratchets, sockets and accessories greatly exceeds current standard specifications.

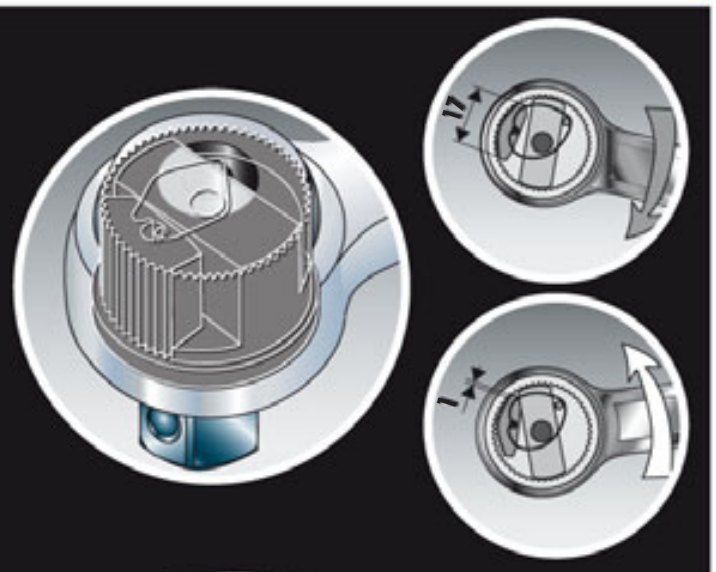
Application	Sizes	Square drive
 Light engineering. Electronics Electromechanical Cycles	3.2 to 14 mm 3/16" to 9/16"	**Radio range ☑ 1/4"** p. 174
Mechanical engineering Automotive engineering Motorcycles	7 to 24 mm 1/4" to 1" 7 to 32 mm 8 to 34 mm 1/4" to 1"	**Junior range ☑ 3/8"** p. 190 **CDX range** p. 204 **Standard range ☑ 1/2"** p. 210
 Heavy engineering Heavy goods vehicles Civil Engineering plant Farming equipment Offshore	19 to 55 mm 3/4" to 2 1/4" 41 to 100 mm 1 13/16" to 3 3/8"	**Truck range ☑ 3/4"** p. 230 **Mammoth range ☑ 1"** p. 239
For all you power-assisted torquing applications	6 to 120 mm 3/8" to 2 1/4"	**Impact range** **☑ 3/8", 1/2", 3/4", 1", 1" 1/2** p. 243
For all live working applications	**1000 V insulated VSE range** Sockets 6 to 12 mm — **Radio ☑ 1/4"** p. 665 Sockets 9 to 19 mm — **Junior ☑ 3/8"** p. 663 Sockets 8 to 22 mm — **Standard ☑ 1/2"** p. 661	

Facom ratchets

Facom ratchets — Meeting professional needs

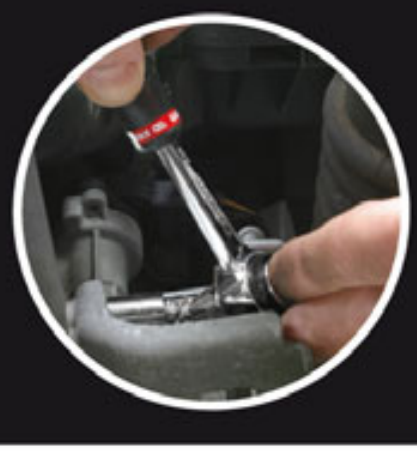
PERFORMANCE

- *The performance of Facom ratchets exceeds ISO 3315 specifications. E.g. : ratchet ☑ 1/2" S.161 : over 400 kg on the handle.*
- *High-frequency hardened teeth for increased strength and durability.*
- *Torque transmitted through 17 teeth in mesh ensuring better stress distribution.*
- *Single tooth in contact during back swing to limit return torque.*



ACCESSIBILITY

- *Facom 72 tooth mechanism allows torquing to be performed in only 5° increments.*
- *The design of the mechanism gives a very compact head that is ideal for working in confined spaces.*



Series 171 — Locking ratchet

Ratchets J, SJ and S.171 are equipped with a locking system that can resist a socket pull-off load of over 60 kg

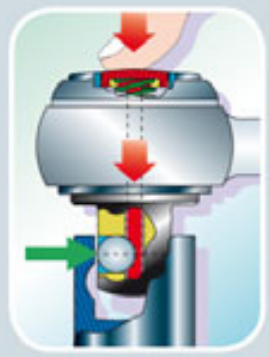
p. 194

SAFETY :

- *No lost or jammed-in-place sockets.*

COMFORT :

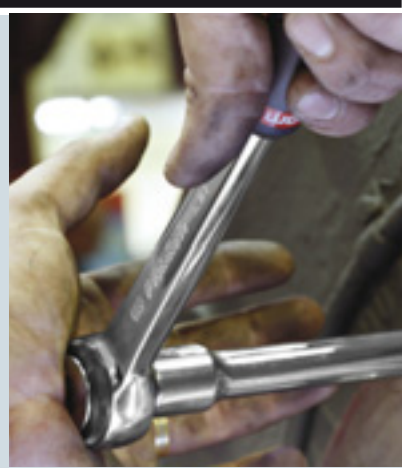
- *Immediate socket release simply by pressing the button, even with slippery or gloved hands.*



SERIES 161 Palm control ratchet

• **Comfortable :**
The palm-control system allows the operator to push down on the head of the ratchet while avoiding accidental reversal.

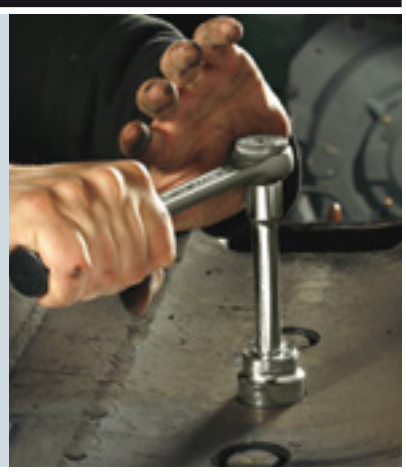
p. 194



SERIES 151 Standard ratchet

• **Sturdy :**
Simple Facom mechanism ensures high performance and durability.

p. 194



Metal grip ratchets

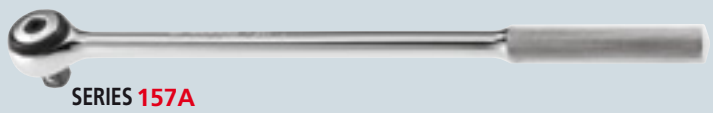
• **Sturdy :**
Metal grip ratchets are ideal for environments where PVC grips are vulnerable to solvent attack.

• **Comfortable :**
Incorporates the Palm control system.

• **Grip :**
The handle is knurled to avoid all risk of slippage.

p. 194

SERIES 155A



SERIES 157A

SERIES 158A

SM SERIES "Parking meter" ratchets

• **Sturdy :**
"Parking meter" ratchets are ideal for use in difficult working conditions :
- Sealed head gives better protection against clogging.
- 50 tooth mechanism, 9° increments.

• **Comfortable :**
Recessed reverse lever avoids accidental reversal and is easier to operate with gloved hands.

SM.161

p. 218

SM.171

SM.150

Radio ◪ 1/4" range

◪ 1/4" inch sets

◪ 1/4" Metric socket and bit sets

R.2AM 6

R.2A 6

R.3A 6

R.420P 6

R.2A : THE MOST COMPREHENSIVE SET... !

		R.2AM	R.2A	R.3A	R.420P
		R.161	R.161	R.161	R.161
		6	6	6	6
1/4".6,35mm		R.	R.	R.	R.
	3,2				•
	4				•
	5				•
	5,5	•	•	•	•
	6	•	•	•	•
	7	•	•	•	•
	8	•	•	•	•
	9	•	•	•	•
	10	•	•	•	•
	11	•	•	•	•
	12	•	•	•	•
	13	•	•	•	•
	14	•	•		•
EP	1	•	•		
	2	•	•		
	3	•	•		
ED	1	•	•	•	
	2	•	•	•	
	3	•	•	•	
ES	4				
	4,5	•	•		
	5,5				
	6,5	•	•		
	8	•	•		
EH	2				
	2,5				
	3	•	•		
	4	•	•		
	5	•	•		
	6	•	•		
	7	•	•		
	8				
EXR	10	•	•		
	15	•	•	•	
	20	•	•	•	
	25	•	•	•	
	27	•	•		
	30	•	•	•	
	40	•	•	•	
	R.209	•	•		•
	R.210	•	•	•	
	R.215				•
	R.240A	•	•		•
	R.236	•	•	•	•
	R.235	•	•	•	
	R.120A				•
		PM.R2A	PL.427	PL.366A	PL.442
		BP.102			
		204 x 122 x 52 mm			
		0,80 kg	0,80 kg	0,60 kg	0,82 kg

◪ 1/4" Metric socket and bit sets

... ALWAYS WITH YOU...
... FOR EVERY SITUATION

		R.425AP	R.426AP	R.425A	R.430ADP	R.431ADP	R.410D	R.410AE
		R.161	R.161	R.151	R.161	R.161	R.151	R.151
12 6		6	12	6	6	12	6	6
◪ 1/4".6,35mm		R.	R.	R.	R.	R.	R.	R.
	3,2							
	4							•
	5							•
	5,5	•	•	•	•	•	•	•
	6	•	•	•	•	•	•	•
	7	•	•	•	•	•	•	•
	8	•	•	•	•	•	•	•
	9	•	•	•	•	•	•	•
	10	•	•	•	•	•	•	•
	11	•	•	•	•	•	•	•
	12	•	•	•	•	•	•	•
	13	•	•	•	•	•	•	•
	14	•	•	•	•	•	•	
EP	1	•	•	•	•	•		
	2	•	•	•	•	•		
	3				•	•		
ED	1							
	2							
	3							
ES	4	•	•	•	•	•		
	4,5							
	5,5				•	•		
	6,5	•	•	•	•	•		
	8	•	•	•	•	•		
EH	2							
	2,5							
	3	•	•	•				
	4	•	•	•	•	•		
	5	•	•	•				
	6	•	•	•	•	•		
	7							
	8				•	•		
EXR	10							
	15				•	•		
	20				•	•		
	25				•	•		
	27							
	30				•	•		
	40				•	•		
	R.209	•	•	•	•	•		
	R.210	•	•	•	•	•		•
	R.215						•	
	R.240A	•	•	•	•	•	•	
	R.236	•	•	•	•	•	•	•
	R.235	•	•	•	•	•		
	R.120A	•	•	•	•	•	•	
		PL.441			PL.389A		PL.244A	PL.390A
		BP.102						
		204 x 122 x 52 mm						
		0,83 kg	0,83 kg	0,83 kg	0,87 kg	0,87 kg	0,66 kg	0,55 kg

R.425AP 6
R.426AP 12
R.425A 6

R.430ADP 6
R.431ADP 12

R.410D 6

R.410AE 6

Radio ◪ 1/4" range

◪ 1/4" Metric socket and wrench sets

FOR MAXIMUM SERVICE

R.450AP 6

R.440EP 6

R.447EP 6

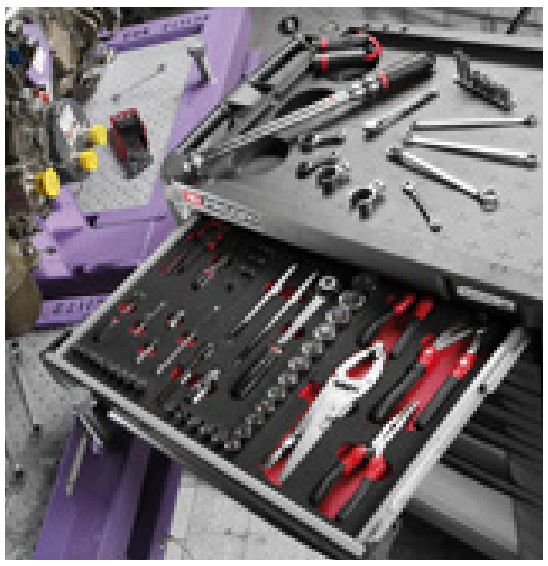
R.430AP 6

		R.450AP	R.440EP	R.447EP	R.430AP
		R.161	R.161	R.161	R.161
		6	6	6	6
1/4".6,35mm		R. R.LA	R. 34	R. 39	R.
	3,2	• •	• •		•
	4	• •	• •	• •	•
	5	• •	• •	• •	•
	5,5	• •	• •	• •	•
	6	• •	• •	• •	•
	7	• •	• •	• •	•
	8	• •	• •	• •	•
	9	• •	• •	• •	•
	10	• •	• •	• •	•
	11	• •	• •	• •	•
	12	• •	• •	• •	•
	13	• •	• •	• •	•
	14	• •	• •		
ED	1	•		•	
	2	•		•	
	3			•	
	4			•	
ES	3	•			
	4	•		•	
	5,5	•		•	
	6,5	•		•	
	8	•		•	
EH	2			•	
	2,5			•	
	3			•	
	4			•	
	5			•	
	6			•	
	8			•	
	R.209	•	•	•	•
	R.215	•	•	•	•
	R.240A	•	•	•	•
	R.236	•	•	•	•
	R.235			•	
	R.245	•			
	R.120A	•	•	•	•
	R.110	•			
	R.140A	•	•		•
	R.216	•	•		•
	R.227	•			
	181.18G		•		
	AN2,5x75				•
	AN3,5x75		•		
RT.	3	•			
	4	•			
	5	•			
	7	•			
22	3,2x5,5				•
	4x5				•
	6x7				•
	8x9				•
	10x11				•
	12x13				•
		PL.703	PL.36A	PL.128A	PL.414
		BP.109			BP.109
		478 X 234 x 272 mm			389 X 164 x 272 mm
		3,26 kg	2,70 kg	2,50 kg	1,92 kg

◪ 1/4" Metric socket modules

FACOM MODULES : THE BEST STORAGE SYSTEM FOR YOUR ROLLER CABINETS

		MOD.R5	MODM.R1A	MOD.R1
		R.161	R.161	R.161
		6	6	6
◪ 1/4".6,35mm		R.	R.	R.
	5,5	•	•	•
	6	•	•	•
	7	•	•	•
	8	•	•	•
	9	•	•	•
	10	•	•	•
	11	•	•	•
	12	•	•	•
	13	•	•	•
	14	•	•	•
	R.209	•	•	•
	R.215	•	•	•
	R.240A	•	•	•
	R.236	•	•	•
	R.235	•	•	•
	R.120A	•	•	•
EP	1	•	•	
	2	•	•	
	3	•	•	
ED	1	•	•	•
	2	•	•	•
	3		•	
ES	4,5		•	•
	6,5	•	•	•
	8	•	•	•
EH	3	•	•	•
	4	•	•	•
	5	•	•	•
	6	•	•	•
	7	•	•	
EXR	10	•		
	15	•	•	
	20	•	•	
	25	•	•	
	27		•	
	30	•	•	
	40	•	•	
82H	2			•
	2,5			•
	3			•
	4			•
	5			•
	6			•
	7			•
	8			•
	9			•
	10			•
83SH	1,5	•	•	
	2	•	•	
	2,5	•	•	
	3	•	•	
	4	•	•	
	5	•	•	
	6	•	•	
	7	•		
	8	•	•	
	10		•	
89S	10	•		
	15	•		
	20	•		
	25	•		
	27	•		
	30	•		
	40	•		
	45	•		
		PL.658	PM.MODR1A	PL.321
			-	
		420 x 190 x 55 mm		420 x 180 x 55 mm
		1,41 kg	1,05 kg	1,10 kg



MODM.R1A 6

Foam modules :

- *Identification of missing tools.*
- *High density foam : resistant to crushing and workshop solvents.*

MOD.R5 6

MOD.R1 6

Radio ◪ 1/4" range

◪ 1/4" Inch socket and wrench sets

R.411MU 6

R.420MU 6

R.440UP 6

MOD.R3 6

RATCHETS ◪ 1/4" : IDEAL FOR DIFFICULT ACCESS SITUATIONS, WHATEVER THE APPLICATION

		R.411MU	R.420MU	R.440UP	MOD.R3
		R.151	R.161	R.161	R.161
		6	6	6	6
1/4".6,35mm		R.	R.	R. 34	R.
	mm "	mm "	mm "	" "	mm "
	3,2 3/16	- -	● ●	● ●	- ●
	4 7/32	● ●	● ●	● ●	- ●
	5 1/4	● ●	● ●	● ●	- ●
	5,5 9/32	● ●	● ●	● ●	- ●
	6 5/16	● ●	● ●	● ●	- ●
	7 11/32	● ●	● ●	● ●	- ●
	8 3/8	● ●	● ●	● ●	- ●
	9 13/32	● ●	● ●	● ●	- ●
	10 7/16	● ●	● ●	● ●	- ●
	11 1/2	● ●	● ●	● ●	- ●
	12 9/16	● ●	● ●	● ●	- -
	13 -	● -	● -	- -	- -
	R.209	●	●	●	●
	R.215	●	●	●	●
	R.240A	●	●	●	●
	R.236		●	●	●
	R.235				●
	R.120A		●	●	●
	R.140A			●	
	R.216			●	
	R.222	●			
	181.18G			●	
	AN.3,5x75			●	
	R.142	●			
ED	1				●
ED	2				●
ES	4.5				●
ES	6,5				●
ES	8				●
EH	1/8				●
EH	5/32				●
EH	3/16				●
EH	7/32				●
82H.	5/64				●
82H.	3/32				●
82H.	1/8				●
82H.	9/64				●
82H.	5/32				●
82H.	3/16				●
82H.	7/32				●
82H.	1/4				●
82H.	5/16				●
82H.	3/8				●
		PL.125A	PL.453	PL.37A	PL.603
		BP.115	BP.102	BP.109	-
		332 x 143 x 67 mm	204 x 122 x 52 mm	478 x 234 x 72 mm	420 x 180 x 55 mm
		1,56 kg	0,72 kg	2,56 kg	0,95 kg

◪ 1/4" Inch socket and bit sets

LARGE RANGE OF SOCKETS : 6- OR 12-POINT, STANDARD OR LONG-REACH, METRIC OR INCH

		RB.425UP	R.425AUP	R.426AUP	R.427UP	R.418AU
		R.161	R.161	R.161	R.161	R.151
		12	6	12	6	6
◪ 1/4".6,35mm		RB.	R.	R.E	R.	R.
	3/16					•
	7/32	•	•	•	•	•
	1/4	•	•	•	•	•
	9/32	•	•	•	•	•
	5/16	•	•	•	•	•
	11/32	•	•	•	•	•
	3/8	•	•	•	•	•
	13/32	•	•	•		•
	7/16	•	•	•	•	•
	1/2	•	•	•	•	•
	9/16	•	•	•	•	•
	R.209	•	•	•	•	
	R.210				•	
	R.215	•	•	•		
	R.240A	•	•	•	•	
	R.236	•	•	•	•	•
	R.235	•	•	•	•	
	R.120A	•	•	•		
	R.210S					•
EP	1	•				
	2	•				
ED	1		•	•	•	
	2		•	•	•	
	3				•	
ES	4		•	•		
	4,5	•			•	
	6,5	•	•	•	•	
	8	•	•	•	•	
EH	1/8		•	•	•	
	5/32		•	•	•	
	3/16		•	•	•	
	7/32		•	•	•	
	1/4				•	
EXR	10				•	
	15				•	
	20				•	
	25				•	
	27				•	
	30				•	
	40				•	
		PL.246A	PL.382A	PL.382A	PL.427	PL.391B
		BP.102				
		204 x 122 x 52 mm				
		0,70 kg	0,76 kg	0,76 kg	0,75 kg	0,55 kg

RB.425UP 12

R.425AUP 6

R.426AUP 12

R.427UP 6

R.418AU 6

Radio ◪ 1/4" range

◪ 1/4" "Radio" ratchets

Facom round head ratchets

R.161

R.151

R.155A

R.157A

The solution for congested spaces.

Compact :

- *The Facom ratchet mechanism ensures a very compact round head design.*

Precise :

- *72-tooth mechanism gives increments of only 5°*

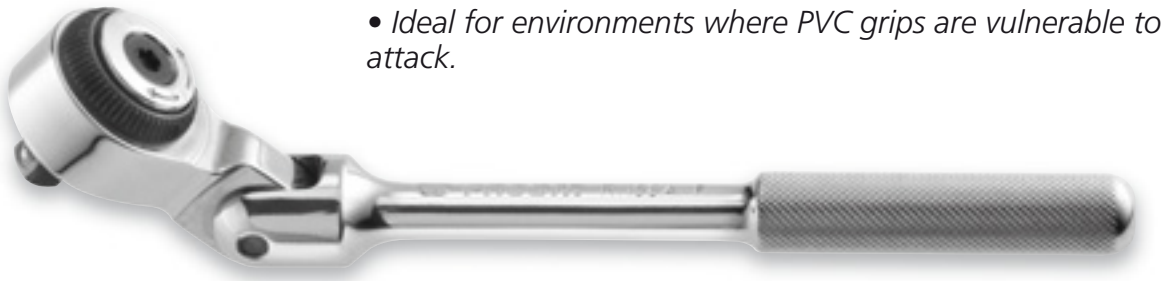
High performance :

- *Meet the requirements of ISO 3315, DIN 3122 and NF ISO 3315.*

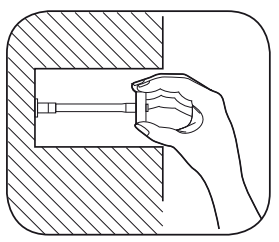
Metal grip ratchets

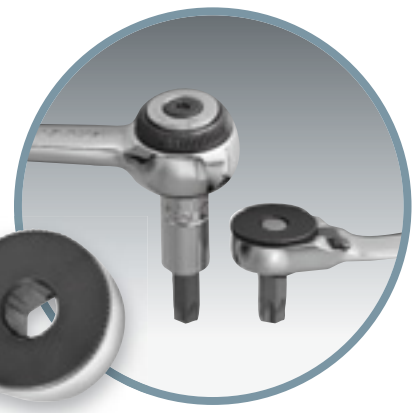
- *Ideal for environments where PVC grips are vulnerable to solvent attack.*

R.158A



R.150A





65.PE

Facom VSE 1000 V insulated ratchets

1000 VOLTS EN 60900

See the "VSE" series range of 1000 V insulated tools on page 662

◪ 1/4" Selection guide

Palm control system

Ergonomic : Allows the operator to push down on the head of the ratchet while avoiding accidental reversal.

Long handle

Power : Transmits more torque without over-loading the ratchet mechanism.

Finger-control

Ultra compact : Ideal for awkward spaces.

Metal handle

Sturdy : Ideal for environments where PVC grips are vulnerable to solvent attack.
Grip : Knurled handle to avoid all risk of slippage.

Hinged handle

Hinged handle with stiffened joint for optimum clearance.

1/4" and 5/16" bit-holder system

Compact : Ultra-compact head allows bits to be used in confined spaces.

Bits held by a spring clip. "One finger" reversing lever.

Precautions of use

	R.161	R.151	R.155A	R.157A	R.158A	R.150A	65.PE
Advantages							
Palm control system	●		●	●	●	●	
Long handle				●	●		●
Finger-control						●	
Metal handle			●	●	●		●
Hinged handle					●		
Bit holders							●
Characteristics							
Increments	5°	5°	5°	5°	5°	5°	5°
No of teeth	72	72	72	72	72	72	72
L (mm)	119.5	120	114	153	158	-	150
l (mm)	108	108	102	141	145.5	-	130
a (mm)	26.5	25	26.5	26.5	26.5	26.5	11
b (mm)	25	25	25	25	25	38.5	20
c (mm)	19	17.5	19	19	19	19	-
Ø (mm)	19,5	21	11	11	11	11	-
⚖ g	120	100	115	125	150	120	74
Maintenance							
Knurl caps							
R.161C	●		●	●	●		
J.161C						●	
R.151C		●					
Spare parts kit							
R.161RN	●		●	●	●	●	
R.151RN		●					
Square drives							
R.151R	●	●	●	●	●	●	

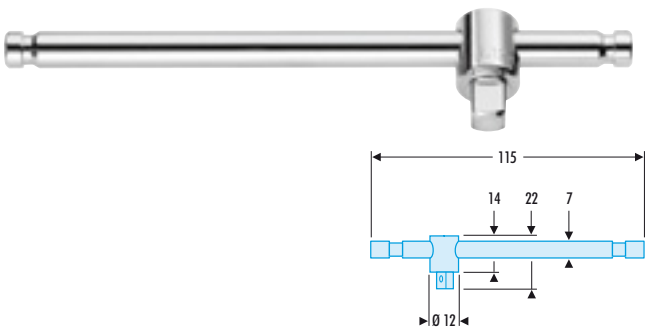
Radio ⍁ 1/4" range

Accessories ⍁ 1/4"

1/4" drive sliding tee

R.120

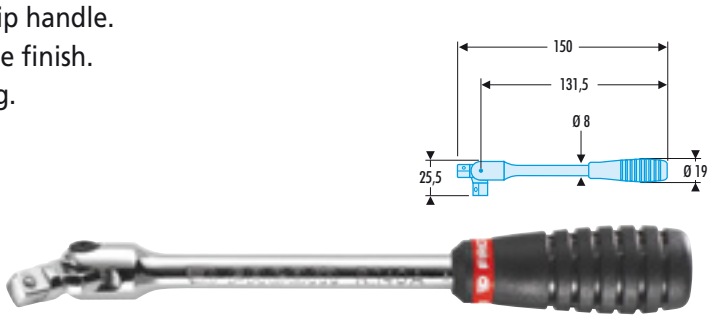
▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Friction-head allows bar to form a T or L-handle.
• Chrome finish.
⚖ : 49 g.



1/4" drive hinged handle 150 mm

R.140A

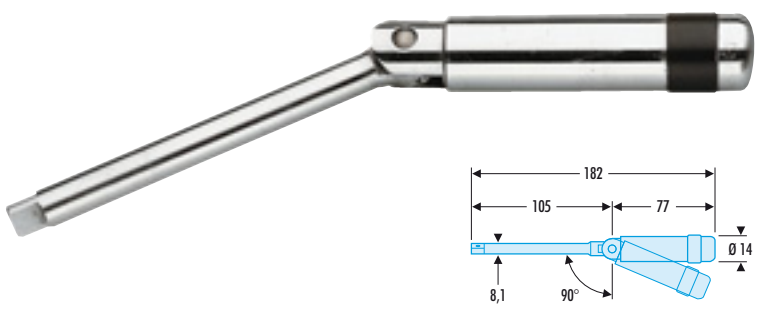
▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Spring steadies hinge in any position, allowing access behind obstacles.
• Non-slip handle.
• Chrome finish.
⚖ : 83 g.



1/4" drive hinged handle

R.142

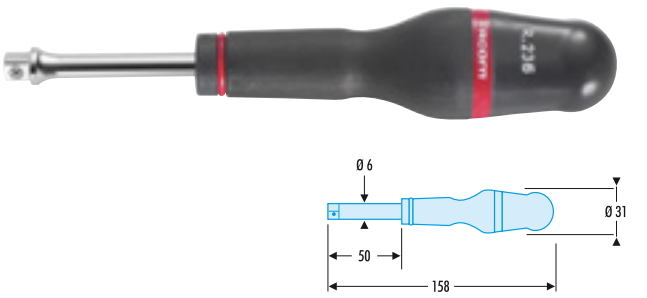
• Can be used as a nut spinner or L-handle for fast pre-tightening or high torques.
⚖ : 125 g.



1/4" drive short spinner 158 mm

R.236

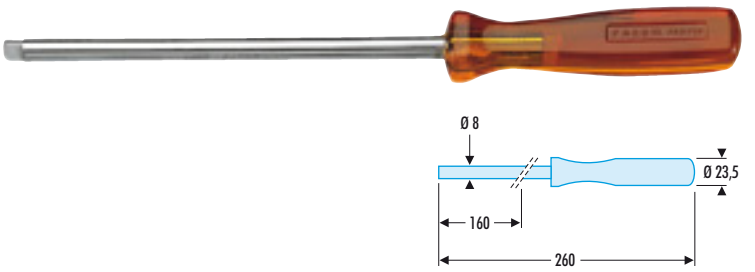
▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Ergonomic, high-strength bi-material handle resistant to common chemicals.
• Chrome finish.
⚖ : 79 g.



1/4" drive long spinner 260 mm

R.227

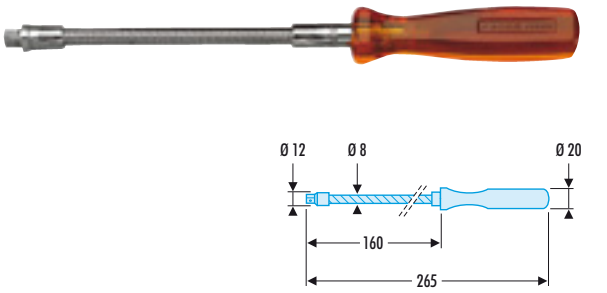
▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Grease-resistant, Isoryl handle.
• Chrome finish.
⚖ : 125 g.



1/4" drive flexible spinner 265 mm

R.222

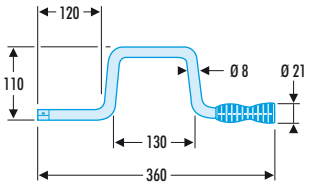
• For fasteners where access is difficult.
• Unsuitable for high torques : max. 2.8 N.m.
⚖ : 115 g.

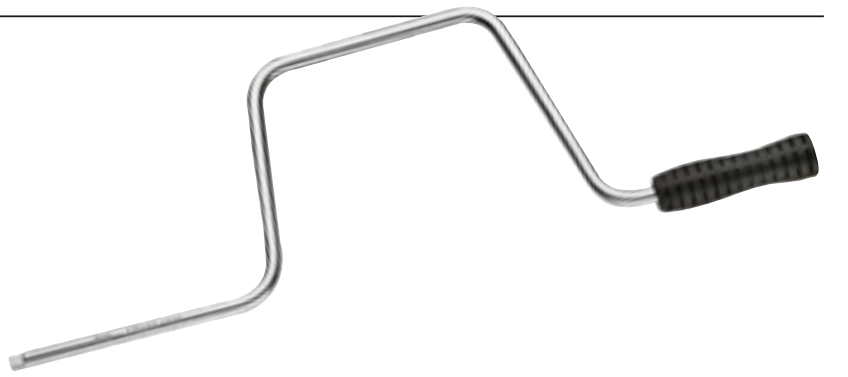


1/4" drive speed brace

R.110

▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• For fast rotation.
• PVC rotating handle.
• Chrome finish.
⚖ : 220 g.

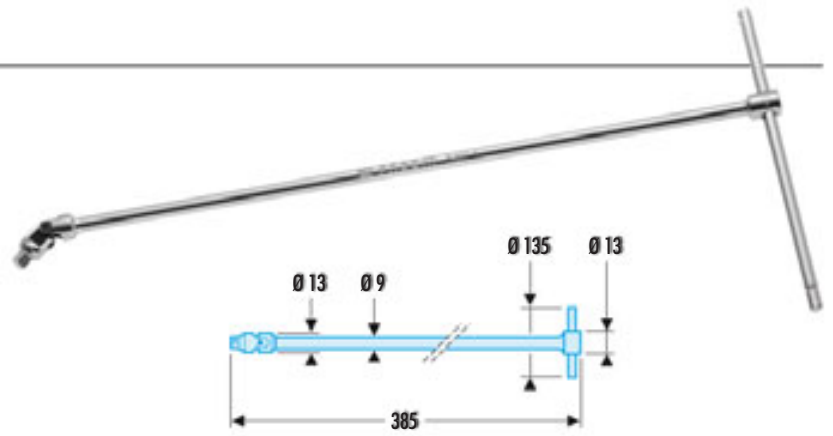




1/4" drive tee with universal joint 385 mm

R.229A

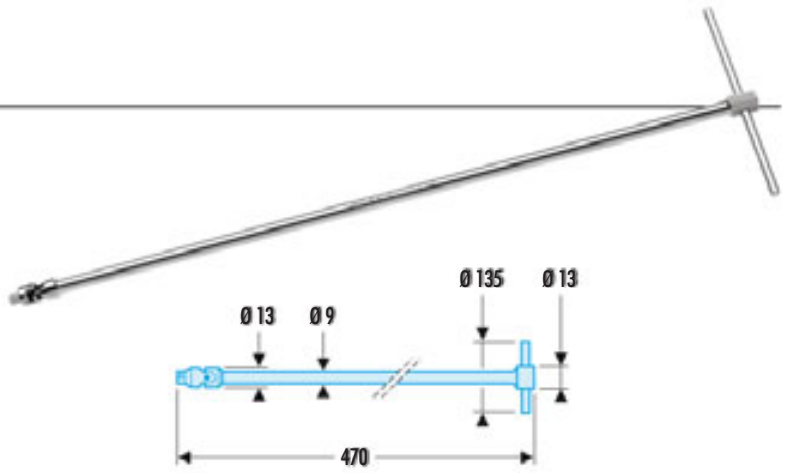
• Universal joint withstands high torques and is spring-steadied in position.
• Long reach and working angle up to 65° allows access to recessed fasteners.
• Length 385 mm.
⍁ : 215 g.



1/4" drive tee with universal joint 470 mm

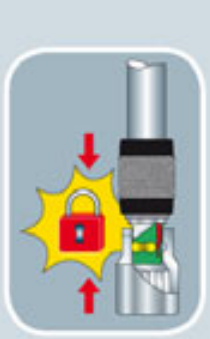
R.228

• Extended reach of tee-handle is ideal for particularly deep recesses.
⍁ : 250 g.



Locking system = total safety

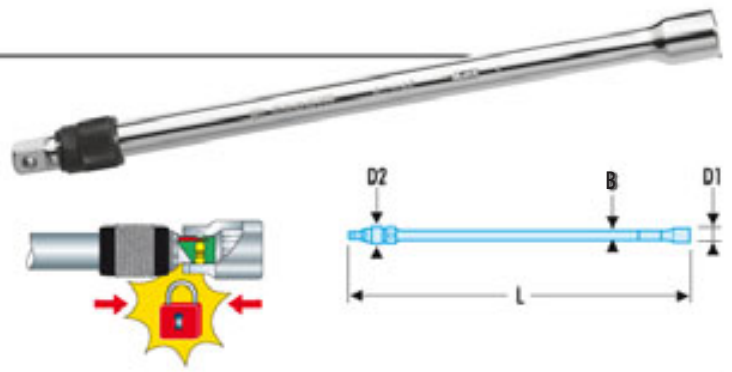
• Resists a socket pull-off load of over 60 kg
• Prevents accidental socket loss
• Instantly unlocks by retracting the knurled ring.



Use only with sockets equipped with an internal ball notch.

R.RC 1/4" drive locking extensions

	B mm	D1 mm	D2 mm	L mm	⍁ g
R.210RC	8,2	12	13	100	45
R.215RC	8,2	12	13	150	60
R.217RC	8,2	12	13	250	100



R 1/4" drive extensions

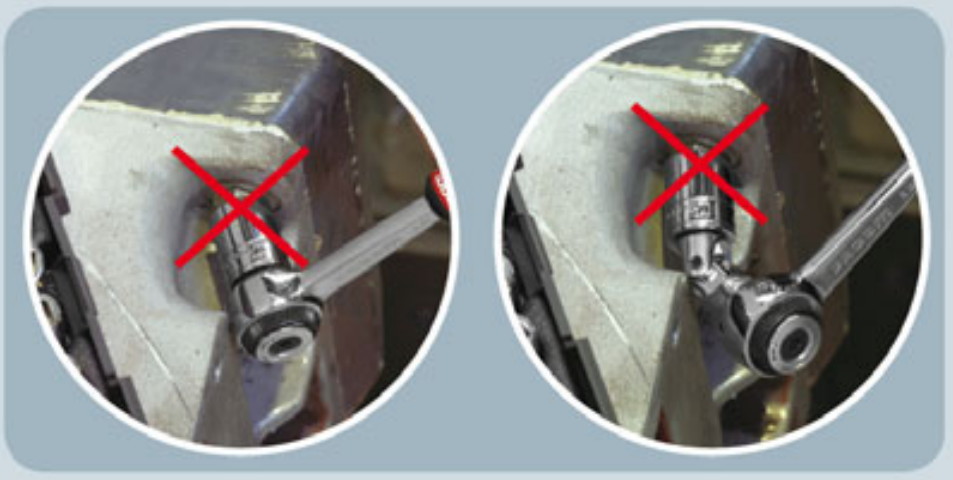
▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
• Polished chrome finish.

	B mm	D mm	L mm	⍁ g
R.209	8,2	12	55	30
R.210	8,2	12	100	45
R.215	8,2	12	150	65
R.217	8,2	12	250	105

Radio ◪ 1/4" range

Wobble extensions

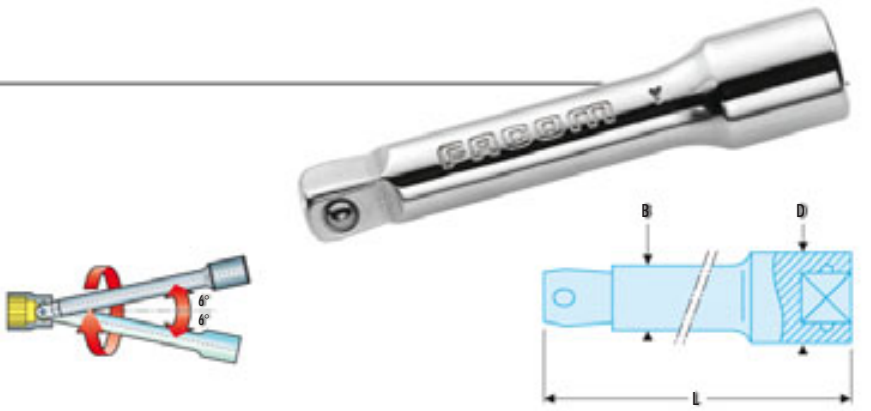
Inaccessible with a socket or a universal joint ? Use a wobble extension !



R.S 1/4" drive wobble extensions

• Square drive profile gives 6° working angle.

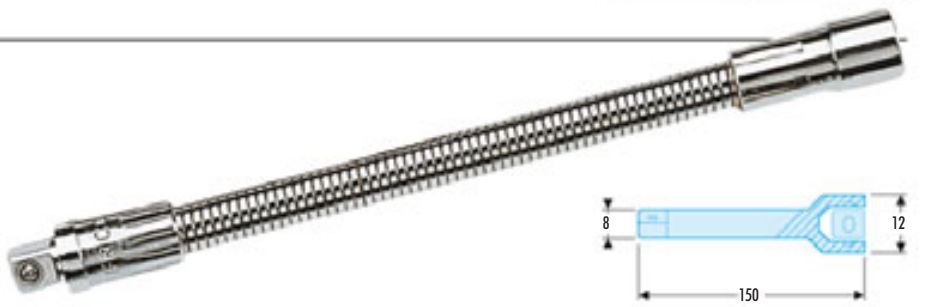
	B mm	D mm	L mm	⚖ g
R.209S	8,2	12	55	30
R.210S	8,2	12	100	45



R 1/4" drive flexible extension 150 mm

R.216

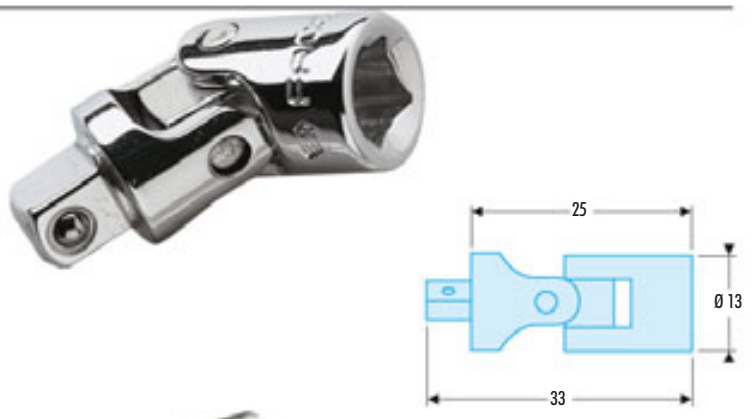
• Reaches fasteners out of direct access line.
• Unsuitable for high torques : max. 2.8 N.m.
⚖ : 66 g.



1/4" universal joint

R.240A

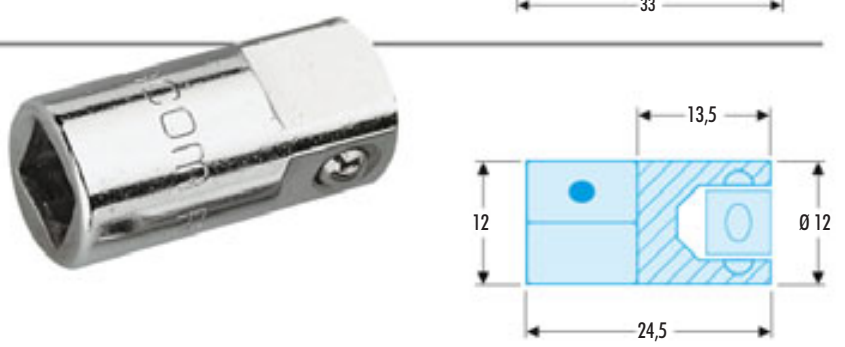
▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
• Spring-stiffened joints. Stays in position when reaching for fasteners.
• Significant time savings.
⚖ : 20 g.



1/4" to 3/8" coupler

R.232

• 1/4" female to 3/8" male square drive.
• For adapting 3/8" drive sockets.
⚖ : 16 g.



Set of 3 couplers

D.169

- Allows use of square drives smaller than socket drive sizes :
- 1/4" square drive + D.169RJ ▷ 3/8" socket.
- 3/8" square drive + D.169JS ▷ 1/2" socket.
- 1/2" square drive + D.169SK ▷ 3/4" socket.
- Compactness means that fewer tools are needed for in situ maintenance operations.
- Magnetic retainer and locking system (JS and SK).
- Knurl allows hand tightening where access is difficult.

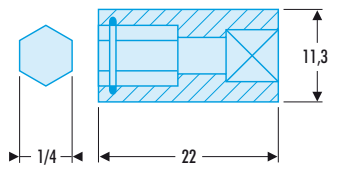
⍁ : 96 g.

1/4" drive standard spring-clip bit holder

R.235

- Spring clip for frequent bit changes.

⍁ : 10 g.

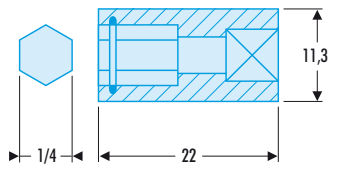


1/4" drive secure spring-clip bit holder

R.245

- Stiffer, more secure, spring clip for infrequent bit changes.
- Square drive has side-hole for ball or plunger lock.

⍁ : 10 g.



1/4" drive lock-ring bit holder

EF.R

	⍁ "	∅ "	Length mm	⍁ g
EF.R	1/4	1/4	30	26

Radio ⍁ 1/4" range

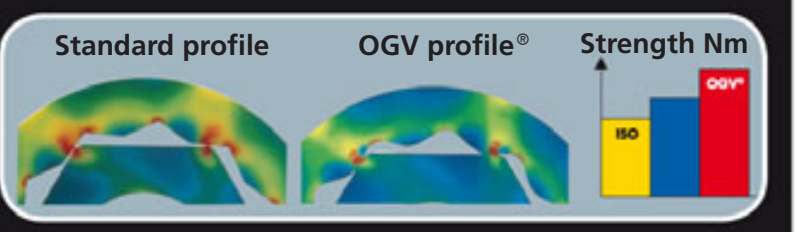
Sockets ⍁ 1/4" OGV®

Facom OGV® profile

HIGHER TORQUE WITHOUT DAMAGE TO FASTENERS !

The OGV® profile is achieved by a succession of curves instead of the flats found in conventional sockets®.

- ***More powerful tightening :***
  Larger contact area between socket and fastener minimises stress.
- ***Less wear :***
  Torque is transmitted through the fastener flats instead of the corners.
- ***Increased durability :***
  Stress concentration in the corners is eliminated.



TAG socket inserts

- Immediately identify your sockets.
- 6- or 12 point sockets.

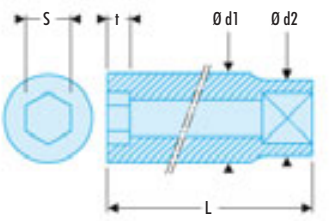
⇒ TAG

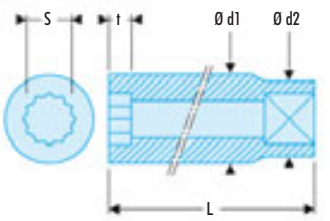
R 1/4" drive metric 6 and 12-point OGV® sockets

▷ Performance : to ISO 2725-1, DIN 3124, NF ISO 2725-1.

R.3,2 : standard profile

6	12	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	ΔΔ g
R.3,2		3,2	5,9	11,2	2,40	22	7,3
R.4		4,0	6,9	11,2	2,60	22	7,7
R.5		5,0	8,2	11,2	4,80	22	8,1
R.5,5	R.5,5E	5,5	8,8	11,2	4,80	22	8,4
R.6	R.6E	6,0	9,4	11,2	5,60	22	8,6
R.7	R.7E	7,0	11	11	6,00	22	9,2
R.8	R.8E	8,0	12,0	12,0	6,50	22	11,5
R.9	R.9E	9,0	13,2	13,2	6,50	22	14,3
R.10	R.10E	10,0	14,7	14,7	7,80	22	17,7
R.11	R.11E	11,0	15,8	15,8	9,00	22	19,4
R.12	R.12E	12,0	17,0	17,0	9,50	22	23,2
R.13	R.13E	13,0	17,7	17,7	10,00	22	23,7
R.14	R.14E	14,0	18,7	18,7	10,00	22	26,1

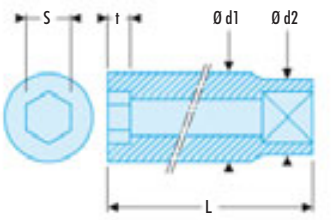


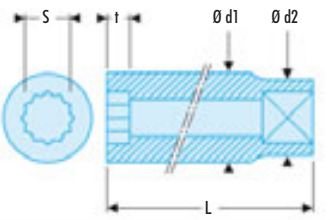


R 1/4" drive metric 6 and 12-point OGV® sockets

▷ Performance : to ISO 2725-1, DIN 3124, NF ISO 2725-1, ANSI B 107.1.

6	12	S "	Ø d1 mm	Ø d2 mm	t mm	L mm	ΔΔ g
R.3/16	R.3/16E	3/16	8,0	11,2	4,75	22	8,2
R.7/32	R.7/32E	7/32	9,0	11,2	5,50	22	8,3
R.1/4	R.1/4	1/4	10,1	11,2	6,00	22	9,3
R.9/32	R.9/32E	9/32	11	11	6,00	22	8,9
R.5/16	R.5/16E	5/16	12,0	12,0	6,50	22	11,5
R.11/32	R.11/32E	11/32	13,2	13,2	6,50	22	14,5
R.3/8	R.3/8E	3/8	14,7	14,7	7,80	22	17,8
R.13/32	R.13/32E	13/32	14,7	14,7	7,80	22	17,0
R.7/16	R.7/16E	7/16	15,8	15,8	9,00	22	19,5
R.1/2	R.1/2E	1/2	17,7	17,7	10,00	22	24,5
R.9/16	R.9/16E	9/16	18,7	18,7	10,00	22	25,2



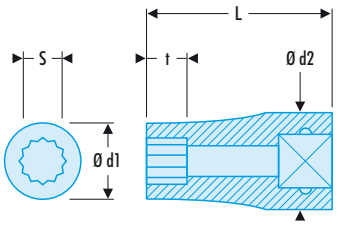


RB 1/4" drive inch 12-point OGV® sockets

▷ Performance : to AS.954E.

• Used for aeronautical applications.

	Ø d1 mm	Ø d2 mm	t mm	L mm	g
RB.3/16	7,6	11,2	4,8	22	7,0
RB.7/32	8,7	11,2	5,5	22	8,0
RB.1/4	9,7	11,2	6,0	22	8,0
RB.9/32	10,6	11,2	6,0	22	10,5
RB.5/16	11,9	11,9	6,5	22	10,0
RB.11/32	12,9	12,9	6,5	22	11,5
RB.3/8	13,7	13,7	7,8	22	14,0
RB.7/16	15,8	14,8	9,0	22	17,0
RB.1/2	16,9	16,0	10,0	22	18,5
RB.9/16	18,7	17,5	10,0	22	22,0

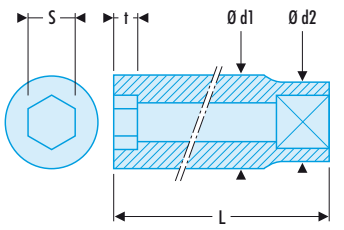


Long-reach sockets ⍁ 1/4" OGV®

R.LA 1/4" long-reach metric 6-point OGV® sockets

▷ Performance : to ISO 2725-1, DIN 3124, NF ISO 2725-1.

	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
R.3,2LA	3,2	5,80	12,0	1,8	50,5	18
R.4LA	4,0	6,80	12,0	2,0	50,5	18
R.5LA	5,0	8,10	12,0	2,3	50,5	18
R.5,5LA	5,5	8,10	12,0	3,0	50,5	18
R.6LA	6,0	9,40	12,0	5,6	50,5	18
R.7LA	7,0	10,9	12,0	7,1	50,5	27
R.8LA	8,0	12,0	12,0	7,9	50,5	27
R.9LA	9,0	12,8	12,8	7,9	50,5	32
R.10LA	10,0	14,3	14,3	7,9	50,5	41
R.11LA	11,0	16,0	16,0	7,9	50,5	54
R.12LA	12,0	16,8	16,8	8,4	50,5	50
R.13LA	13,0	18,2	18,2	8,4	50,5	59
R.14LA	14,0	19,2	19,2	10,2	50,5	68



New

R.EL 1/4" long-reach inch 12-point OGV® sockets

▷ Performance : to AS954E, ASME B 107.1.

• High performance, suitable for aircraft fasteners to AS954E.

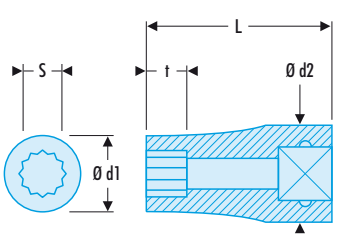
• Thinner socket walls for better accessibility.

• Facom OGV® 12 point profile ensures :

- Reduced stress.
- Better protection of 6 and 12-point screw heads.
- High durability.

• Available as a rack set reference : REL.40U.

	S "	Ø d1 mm	Ø d2 mm	t mm	L mm	g
R.3/16EL	3/16	7,7	10,9	6	50	14
R.7/32EL	7/32	8,5	10,9	7,4	50	15
R.1/4EL	1/4	9,4	10,9	7,4	50	17
R.9/32EL	9/32	10,2	10,9	8,5	50	17
R.5/16EL	5/16	11,4	11,8	9	50	23
R.11/32EL	11/32	12,5	12	9,7	50	25
R.3/8EL	3/8	13,7	12,8	11,2	50	32
R.7/16EL	7/16	15,6	14,3	11,9	50	40
R.1/2EL	1/2	17,3	16,2	13,8	50	45
R.9/16EL	9/16	18,8	17,1	16,2	50	49



Radio ⍁ 1/4" range

Rack set of 1/4" drive sockets

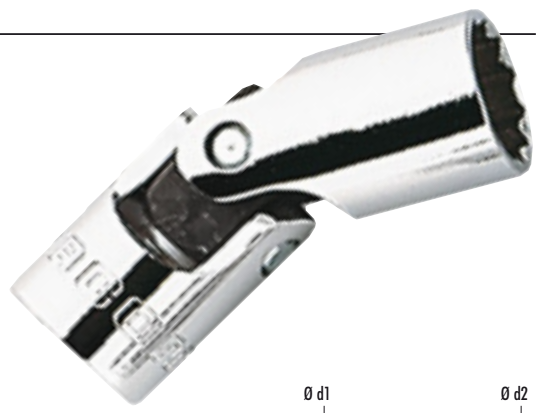
- Racks fit inside tool boxes, in roller cabinets, on panels.
- A range of sockets displayed for easy selection.

	Sizes	⍙ g	Rack
R.40E	R : 3,2 - 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14	255	CKS.93
RL.40E	RL : 3,2 - 4 - 5 - 5,5 - 6 - 7 - 8 - 9	220	CKS.89
RL.41E	RL : 10 - 11 - 12 - 13 - 14	310	CKS.89
R.40U	R : 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 13/32 - 7/16- 1/2 - 9/16	235	CKS.93
REL.40U	REL : 3/16 - 7/32 - 1/4 - 9/32 - 5/16 - 11/32 - 3/8 - 7/16 - 1/2 - 9/19	345	CKS.93

R.F 1/4" drive hinged inch 12-point OGV® sockets

▷ Performance : to ANSI B 107.1, GGG.W.641E, ASME B 107.1.

	Ø d1 mm	Ø d2 mm	t mm	L mm	⍙ g
R.3/16F	8,0	13,0	5,3	31,6	13
R.7/32F	8,5	13,0	6,1	32,4	13
R.1/4F	9,8	13,0	6,5	32,8	13
R.9/32F	10,5	13,0	6,5	32,8	13
R.5/16F	12,0	13,0	7,0	33,3	14
R.11/32F	13,3	13,0	7,0	33,3	16
R.3/8F	13,7	13,0	8,3	34,6	21
R.7/16F	15,5	13,0	9,5	35,8	27
R.1/2F	18,0	13,0	10,5	36,8	34
R.9/16F	19,2	13,0	10,5	36,8	35

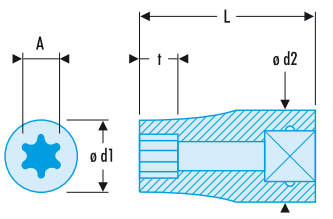


Long-reach sockets ⍁ 1/4" Torx®

RTX 1/4" drive Torx® sockets

- Drive ⍁ 1/4".
- For Torx® fasteners.
- Manual use.
- Chrome finish.

	Torx® no.	A mm	Ø d1 mm	Ø d2 mm	t mm	L mm	⍙ g
RTX.4	E4	3,70	5,4	11,2	3,2	22	8
RTX.5	E5	4,58	6,7	11,2	3,0	22	8
RTX.6	E6	5,54	7,7	11,2	3,6	22	8
RTX.7	E7	6,22	8,3	11,2	3,6	22	8
RTX.8	E8	7,29	9,6	11,2	4,3	22	9
RTX.10	E10	9,19	11,3	12,0	5,6	22	11



Set of 1/4" drive Torx® sockets

RTX.40

- Sockets supplied on a rack.

		Dimensions Torx®	Rack	⍙ g
RTX.40	6	E4 - E5 - E6 - E7 - E8 - E10	CKS.89	90

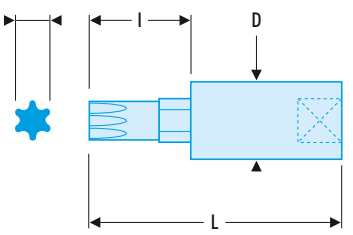
Bit sockets ⍁ 1/4"

RT 1/4" drive metric and inch bit sockets

- Removable bits.
- Metric and inch sizes.

	S	Ø d	Components		l	L	⍙
	mm	mm			mm	mm	g
RT.2	2,00	11,3	R.245	EH.102	15	37	18
RT.2,5	2,50	11,3	R.245	EH.102,5	15	37	18
RT.3	3,00	11,3	R.245	EH.103	15	37	18
RT.4	4,00	11,3	R.245	EH.104	15	37	18
RT.5	5,00	11,3	R.245	EH.105	15	37	19
RT.6	6,00	11,3	R.245	EH.106	15	37	20
RT.7	7,00	11,3	R.245	EH.107	15	37	21
RT.8	8,00	11,3	R.245	EH.108	15	37	22
RT.10	10,00	11,3	R.245	EH.110	15	37	24
RT.1/8	3,17	11,3	R.245	EH.101/8	15	37	18
RT.5/32	3,96	11,3	R.245	EH.105/32	15	37	18
RT.3/16	4,76	11,3	R.245	EH.103/16	15	37	18
RT.7/32	5,56	11,3	R.245	EH.107/32	15	37	19
RT.1/4	6,35	11,3	R.245	EH.101/4	15	37	20

RX 1/4" drive Torx® bit sockets

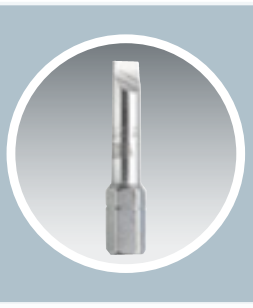


	Torx®	⍁	Components		D	l	L	⍙
	no.	A mm			mm	mm	mm	g
RX.6	T6	1,65	R.245	R.245	11,3	16	38	17
RX.7	T7	1,97	R.245	R.245	11,3	16	38	17
RX.8	T8	2,30	R.245	R.245	11,3	16	38	17
RX.9	T9	2,48	R.245	R.245	11,3	16	38	17
RX.10	T10	2,72	R.245	R.245	11,3	16	38	17
RX.15	T15	3,26	R.245	R.245	11,3	16	38	17
RX.20	T20	3,84	R.245	R.245	11,3	16	38	18
RX.25	T25	4,40	R.245	R.245	11,3	16	38	18
RX.27	T27	4,96	R.245	R.245	11,3	16	38	18
RX.30	T30	5,49	R.245	R.245	11,3	16	38	18
RX.40	T40	6,60	R.245	R.245	11,3	16	38	18

Create your own bit sockets

?

Bits



Series 1 ⎔ 1/4"
Series 2 ⎔ 5/16"

See section 7 p. 345

Bit holders ⍁ 1/4"

R.235

⎔ 1/4" (6,35 mm)
Standard spring clip

R.245

⎔ 1/4" (6,35 mm)
Heavy-duty spring clip

p. 359

Junior ◪ 3/8" range.

Socket sets ◪ 3/8"

◪ 3/8" Metric socket sets

J.501 6
J.500 12

J.431P 6
J.430AP 12

J.420E 12

J.431ASP 6
J.430ASP 12

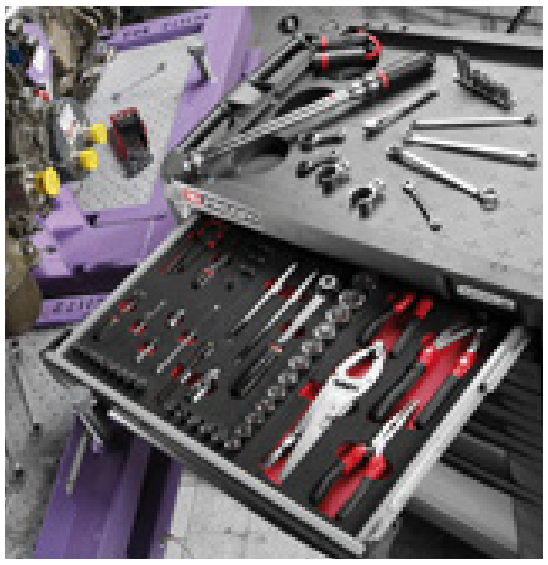
LOCKING RATCHETS AND EXTENSIONS : NO MORE LOST SOCKETS

		J.501	J.500	J.430AP	J.431P	J.420E	J.431ASP	J.430ASP
		J.171	J.171	J.161	J.161	J.151A	J.161	J.161
		6	12	12	6	12	6	12
	3/8".9,52mm	J.H	J.	J.	J.H	J.	J.H	J.
	7					●		
	8	●	●	●	●	●	●	●
	9	●	●	●	●	●	●	●
	10	●	●	●	●	●	●	●
	11	●	●	●	●	●	●	●
	12	●	●	●	●	●	●	●
	13	●	●	●	●	●	●	●
	14	●	●	●	●	●	●	●
	15	●	●	●	●	●	●	●
	16	●	●	●	●	●	●	●
	17	●	●	●	●	●	●	●
	18	●	●	●	●	●	●	●
	19	●	●	●	●	●	●	●
	20					●		
	21	●	●	●	●	●	●	●
	22	●	●	●	●	●	●	●
	23					●		
	24					●		
	J.210			●	●		●	●
	J.215			●	●		●	●
	J.120A	●	●	●	●		●	●
	J.240A	●	●	●	●		●	●
	J.210RC	●	●					
	J.215RC	●	●					
	J.210S					●		
	J.235						●	●
	J.236						●	●
ED	2						●	●
ED	3						●	●
ED	4						●	●
EH	5						●	●
EH	6						●	●
EH	8						●	●
EH	10						●	●
ES	6,5						●	●
ES	8						●	●
ES	10						●	●
		PL.412A			PL.13	PL.19A	PL.411	
		BP.112			BT.112G	BP.115	BP.112	
		389 x 164 x66 mm				322 x 143 x 67 mm	389 x 164 x 66 mm	
		2,20 kg	2,20 kg	1,96 kg	2,75 kg	1,50 kg	2,75 kg	2,75 kg

◪ 3/8" Metric socket modules

FACOM MODULES : THE BEST STORAGE SYSTEM FOR YOUR ROLLER CABINETS

		MOD.J7	MOD.J5	MOD.J1
		J.161 + J174	J.171	J.161
		6	6	6
◪ 3/8".9,52mm		J.H	J.H	J.H
	7			
	8	●	●	●
	9	●	●	●
	10	●	●	●
	11	●	●	●
	12	●	●	●
	13	●	●	●
	14	●	●	●
	15	●	●	●
	16	●	●	●
	17	●	●	●
	18	●	●	●
	19	●	●	●
	20			
	21	●	●	●
	22	●	●	●
	23	●		
	24	●		
	J.210			●
	J.215			●
	J.120A	●	●	●
	J.240A	●	●	●
	J.210RC	●	●	
	J.215RC	●	●	
	J.210S			
	J.235			
	J.236			
ED	2			
	3			
	4			
EH	5			
	6			
	8			
	10			
ES	6,5			
	8			
	10			
		PL.665	PL.322A	
		420 x 180 x 55 mm		
		2,20 kg	1,75 kg	1,80 kg



MOD.J7 6

MOD.J5 6

MOD.J1 6

Junior ◪ 3/8" range.

◪ 3/8" Metric socket, wrench and bit sets

J.451EP ⑥ ⑫

JT.415E

JX.415EP

J.426M

		J.451EP	J.447E	JT.415E	JX.415EP	J.426M
		J.161 + J.156	J.151	J.151A	J.161	-
	⑫ ⑥	⑥ ⑫	⑫	-	-	-
	◪ 3/8".9,52mm	J. J.LA	J. 39	-	-	-
	7	● ●	● ●			
	8	● ●	● ●			
	9	● ●	● ●			
	10	● ●	● ●			
	11	● ●	● ●			
	12	● ●	● ●			
	13	● ●	● ●			
	14	● ●	● ●			
	15	● ●	● ●			
	16	● ●	● ●			
	17	● ●	● ●			
	18	● ●				
	19	● ●				
	21	● ●				
	22	● ●				
	24	● ●				
	J.210	●	●			●
	J.210S			●	●	
	J.215	●	●		●	
	J.120A	●			●	
	J.240A	●	●			
	J.110	●				
	J.140A	●				●
	J.235	●			●	●
	J.236	●			●	●
	J.216	●				
	J.222					●
	BJ.21A1		●			
	BJ.16A1		●			
JT	3	●		●		
	4	●		●		
	5	●		●		
	6	●		●		
	7	●		●		
	8	●		●		
	10	●		●		
ED	1	●				●
	2	●				●
	3	●				●
	4	●				●
EP	1					●
	2					●
	3					●
	4					●
ES	4					●
	5,5	●				●
	6,5	●				●
	8	●				●
	10	●				●
EX	10				●	●
	15				●	●
	20				●	●
	25				●	●
	27				●	●
	30				●	●
	40				●	●
	45				●	●
	50				●	●
	55				●	
EH	3					●
	4					●
	5					●
	6					●
	7					●
	8					●
	10					●
		PL.77A	PL.27B	PL.20A	PL.118	PL.21A
		BT.105	BP.109	BP.115	BT.109G	BP.112
		540 x 280 x 58 mm	478 x 234 x 72 mm	322 x 143 x 66 mm	470 x 195 x 53 mm	389 x 164 x 66 mm
		7,70 kg	3,55 kg	1,27 kg	1,75 kg	2,53 kg

◪ 3/8" Inch socket sets

		J.430MU	J.430UP	J.450U		J.420AU	MOD.J2
		J.161	J.161	J.151A + J.156		J.161	J.161
		12	12	12	12	12	12
◪ 3/8".9,52mm		J.	J.	J.	J.LA	J.	J.
	1/4	●	●	●	●	●	
	5/16	●	●	●	●	●	●
	3/8	●	●	●	●	●	●
	7/16	●	●	●	●	●	●
	1/2	●	●	●	●	●	●
	9/16	●	●	●	●	●	●
	5/8	●	●	●	●	●	●
	11/16	●	●	●	●	●	●
	3/4	●	●	●	●	●	●
	13/16	●	●	●	●	●	●
	7/8	●	●	●	●	●	●
	15/16	●	●	●	●		
	1'	●	●	●	●		
	7	●					
	8	●					
	9	●					
	10	●					
	11	●					
	12	●					
	13	●					
	14	●					
	15	●					
	16	●					
	17	●					
	18	●					
	19	●					
	21	●					
	22	●					
	24	●					
	J.210	●	●	●		●	●
	J.215	●	●	●		●	●
	J.120A	●	●	●			●
	J.240A	●	●	●			●
	J.110		●	●			
	J.235			●			
	J.236			●			
	J.216			●			
	J.140A			●			
JT	1/8			●			
	5/32			●			
	3/16			●			
	7/32			●			
	1/4			●			
	5/16			●			
	3/8			●			
ED	1			●			
	2			●			
	3			●			
	4			●			
ES	5,5			●			
	6,5			●			
	8			●			
	10			●			
		PL.59A	PL.12A	PL.78A		PL.69A	PL.601
		BP.109		BT.105		BP.115	-
		478 x 234 x 72 mm		540 x 280 x 58 mm		332 x 143 x 67 mm	420 x 180 x 55 mm
		4,18 kg	3,73 kg	7,38 kg		2,70 kg	1,52 kg

J.430MU 12

J.430UP 12

J.450U 12

J.420AU 12

MOD.J2 6

Junior ☐ 3/8" range.

Ratchets ☐ 3/8"

☐ 3/8" "Junior" ratchets

Facom round head ratchets

J.171

J.161

J.151A

J.174

J.153A

J.161E

J.155A

J.157A

J.158A

J.159A

The solution for congested spaces

Compact :
- *The Facom ratchet mechanism ensures a very compact round head design.*

Precise :
- *72 tooth mechanism gives increments of only 5°.*

High performance :
- *Meet the requirements of ISO 3315, DIN 312 NF ISO 3315.*

Metal grip ratchets

- *Ideal for environments where PVC grips are vulnerable to solvent attack.*

J.156
Ratchet attachment.
Female drive : ☐ 3/8"
Male drive : ☐ 3/8".

Facom VSE 1000 V insulated ratchets

1000 VOLTS EN 60900

See the "VSE" series range of 1000 V insulated tools on page 661

◪ 3/8" Selection guide

Locking system

Safe : Locking system can resist a socket pull-off force of up to 600 Newtons. No lost sockets.
Ergonomic : Immediate socket release simply by pressing the button, even with slippery or gloved hands.

Palm control system

Ergonomic : Allows the operator to push down on the head of the ratchet while avoiding accidental reversal.

Long handle

Power : Transmits more torque without over-loading the ratchet mechanism.

Short handle

Compact : Ideal for awkward spaces.

Metal handle

Sturdy : Ideal for environments where PVC grips are vulnerable to solvent attack.
Grip : Knurled to avoid all risk of slippage.

Hinged handle

Hinged handle with stiffened joint for optimum clearance.

Precautions of use

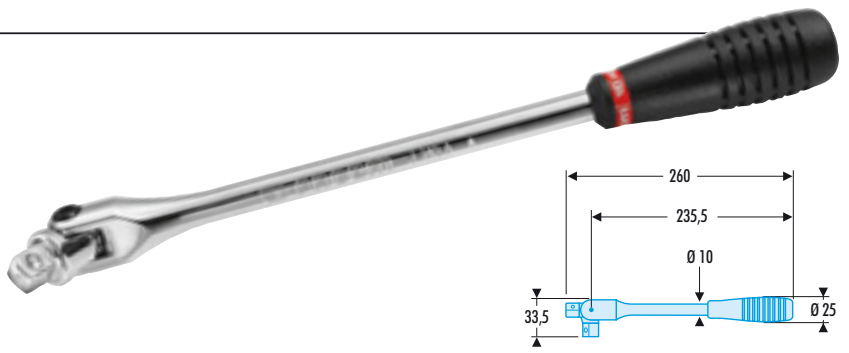
	J.171	J.161	J.151A	J.174	J.153A	J.161E	J.155A	J.157A	J.158A	J.159A	J.156
Advantages											
Locking system	●			●							
Palm control system	●	●		●	●	●	●	●	●	●	
Long handle				●	●			●	●	●	
Short handle						●					
Metal handle						●	●	●	●	●	
Hinged handle					●				●	●	
Characteristics											
Increments	5°	5°	5°	5°	5°	5°	5°	5°	5°	5°	5°
No of teeth	72	72	72	72	72	72	72	72	72	72	72
L (mm)	210	175	175	250	278	110	190	257	273	268	-
l (mm)	195	160	160	234	263	95	175	242	258	253	-
a (mm)	36	32	29	36	32	32	32	32	32	31	53
b (mm)	32.5	29.5	29.5	32.5	29.5	29.5	29.5	29.5	29.5	30	39
c (mm)	24	21	18	24	21	21	21	21	21	20	42
Ø (mm)	28	25	21	28	25	14	16	16	16	16	-
⚖ g	260	210	200	320	315	140	260	320	350	375	200
Maintenance											
Knurl caps											
J.161C		●			●	●	●	●	●	●	
S.156C											●
J.151AC			●								
Spare parts kit											
J.161RN		●			●	●	●	●	●	●	
S.151RN											●
J.151RN			●								
Square drives											
J.151AR		●	●		●	●	●	●	●	●	
J.151R											●

Accessories ⍁ 3/8''

3/8" drive hinged handle 260 mm

J.140A

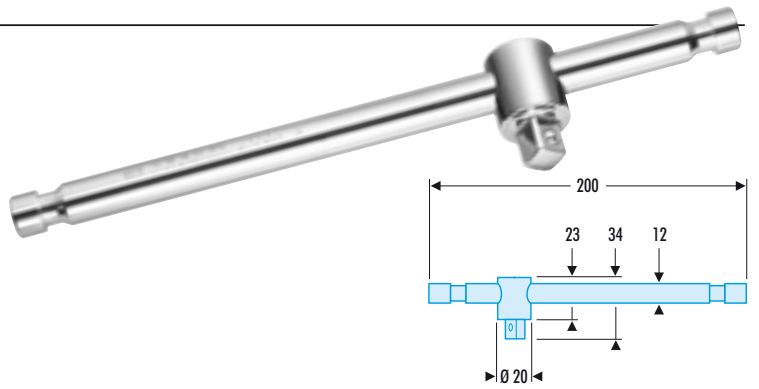
▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Stiffened joint.
• Chrome finish.
⚖ : 230 g.



3/8" drive sliding tee

J.120

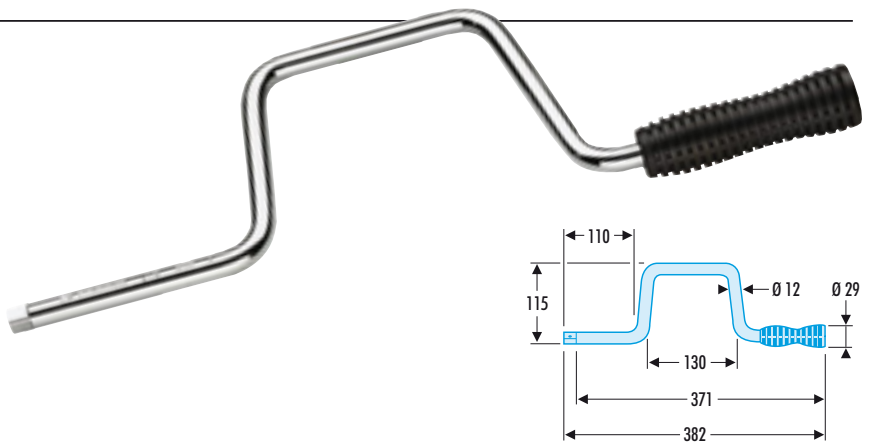
▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Friction-head allows bar to form a T or L-handle.
⚖ : 215 g.



3/8" drive speed brace

J.110A

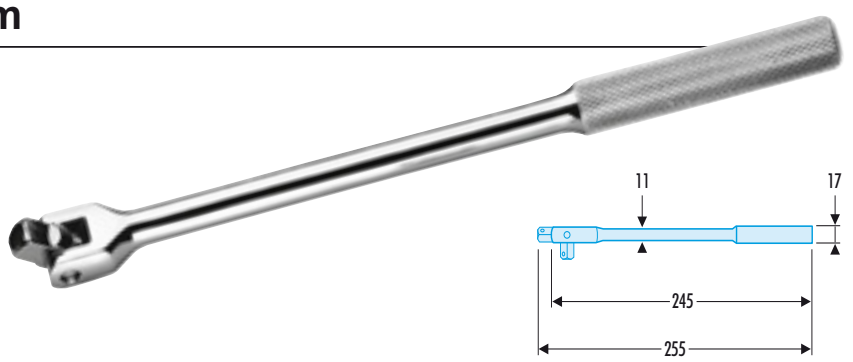
▷ Performance : to ISO 3315, DIN ISO 3122, NF ISO 3315.
• For fast rotation.
• PVC rotating handle.
⚖ : 395 g.



3/8" drive metal-grip hinged handle 255 mm

J.145

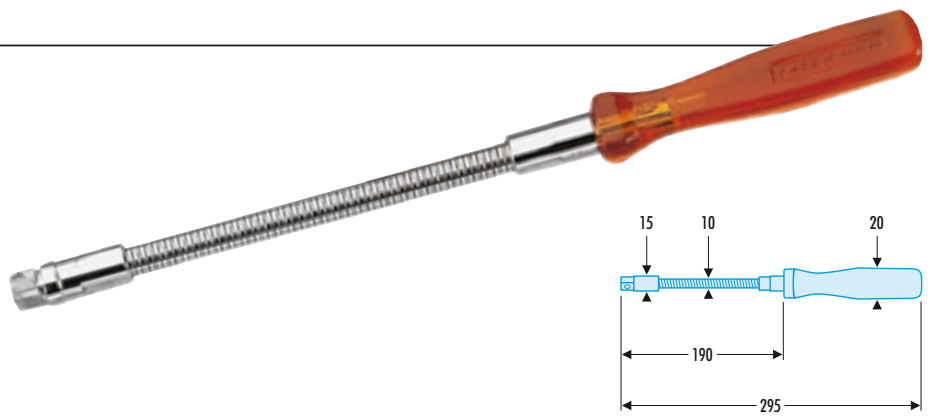
▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Stiffened joint.
• Chrome finish.
⚖ : 290 g.



3/8" drive flexible spinner 295 mm

J.222

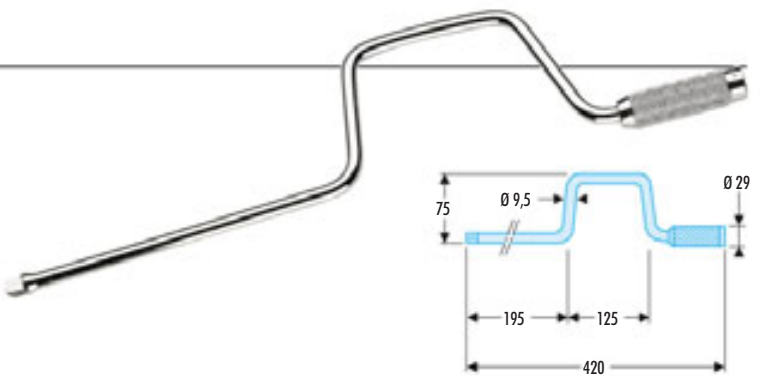
• For fasteners where access is difficult.
• Unsuitable for high torques : max. 3 N.m.
⚖ : 180 g.



3/8" drive metal-grip speed brace

J.115

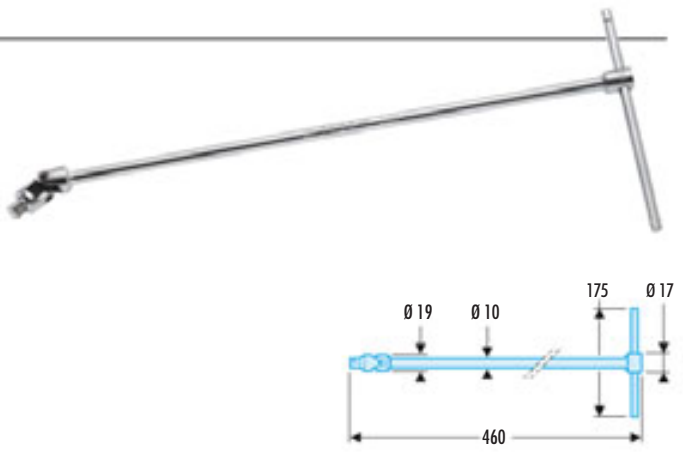
▷ Performance : to ISO 3315, DIN ISO 3122, NF ISO 3315.
• For fast rotation.
• Metal rotating handle.
⍁ : 425 g.



3/8" drive tee with universal joint 450 mm

J.229A

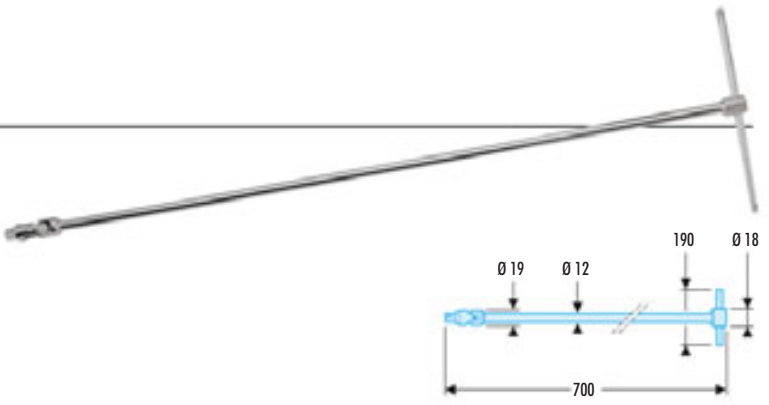
▷ Performance : to ISO 1174-1, DIN 3120, NF ISO 1174-1.
• Universal joint withstands high torques and is spring-steadied in position.
• Long reach and working angle up to 65° allows access to recessed fasteners.
• Length 450 mm.
• Tee handle.
⍁ : 410 g.



3/8" drive tee with universal joint 700 mm

J.228

▷ Performance : to ISO 1174-1, DIN 3120, NF ISO 1174-1.
• Tee handle.
⍁ : 660 g.



Locking system = total safety

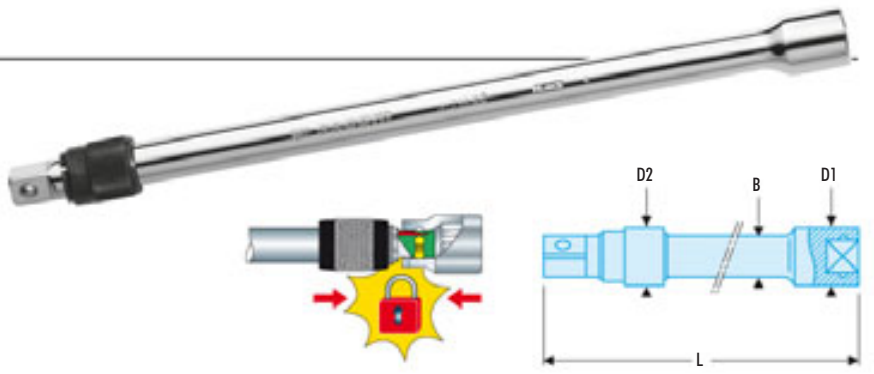
- Resists a socket pull-off load of over 60 kg
- Prevents accidental socket loss
- Instantly unlocks by retracting the knurled ring.

Use only with sockets equipped with an internal ball notch.

J.RC 3/8" drive locking extensions

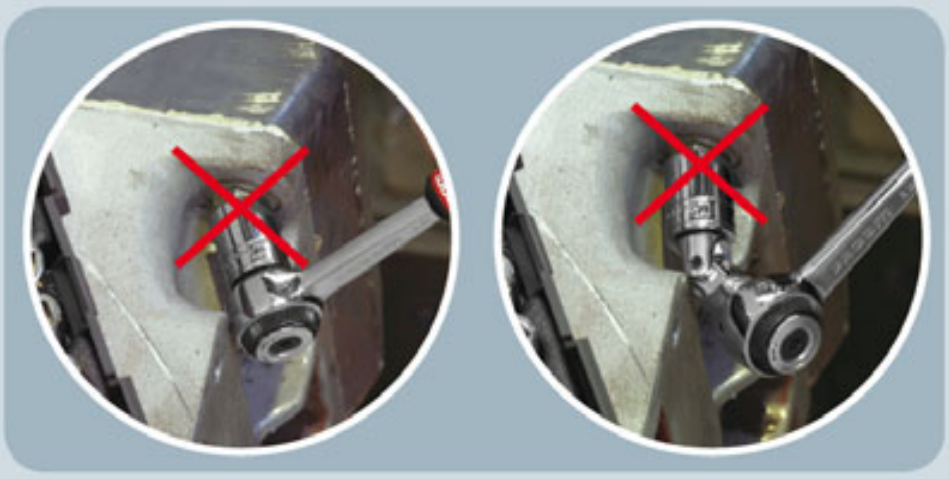
• Lock system prevents socket loss for total safety.

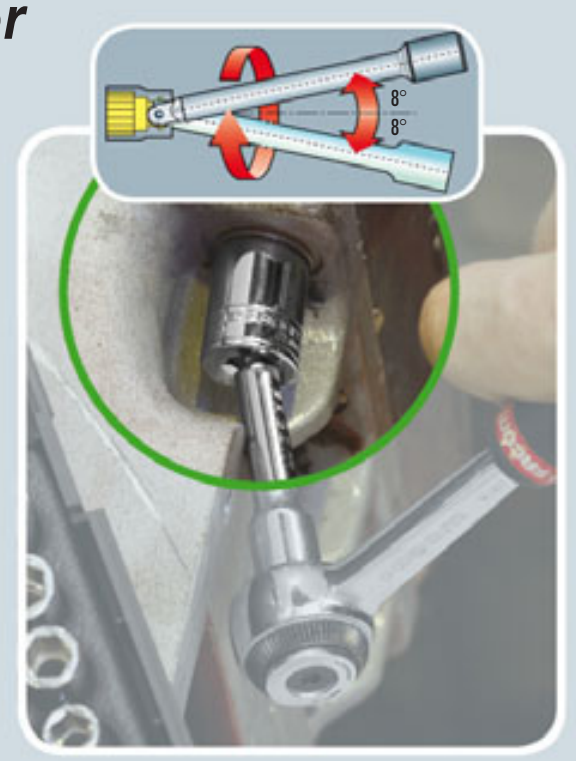
	B mm	D1 mm	D2 mm	L mm	⍁ g
J.210RC	12,5	18	18	125	135
J.215RC	12,5	18	18	250	240
J.217RC	12,5	18	18	500	490



Wobble extensions

Inaccessible with a socket or a universal joint ? Use a wobble extension !

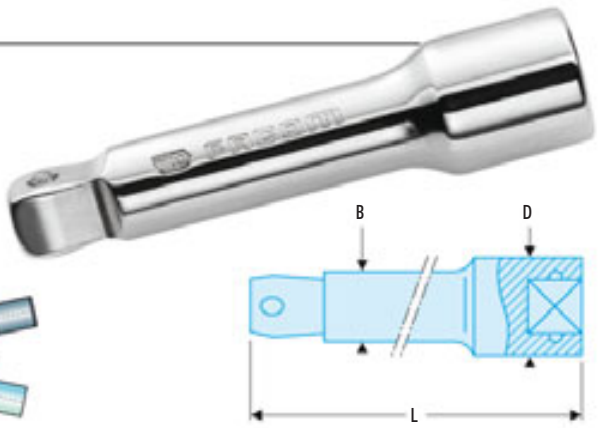




J.S 3/8" drive wobble extensions

- Square drive profile gives 8° working angle.
- Useful where access is limited.

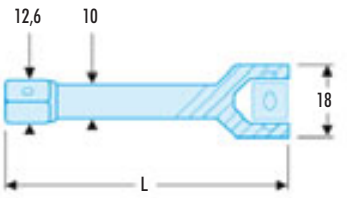
	B mm	D mm	L mm	⍁ g
J.209S	12,5	18	75	80
J.210S	12,5	18	125	130



J 3/8" drive extensions

▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.

	L mm	⍁ g
J.208	50	62
J.209	75	86
J.210	125	127
J.215	250	230
J.217	500	445

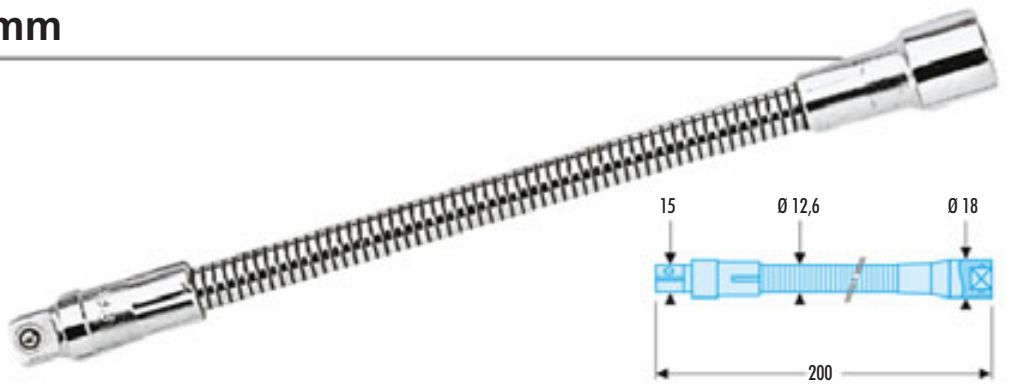


R 3/8" drive flexible extension 200 mm

J.216

- Unsuitable for high torques.

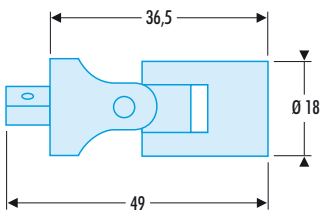
⍁ : 145 g.



3/8" universal joint

J.240A

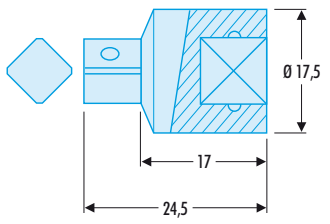
▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
• Spring-stiffened joints.
⚖ : 60 g.



3/8" to 1/4" coupler

J.230

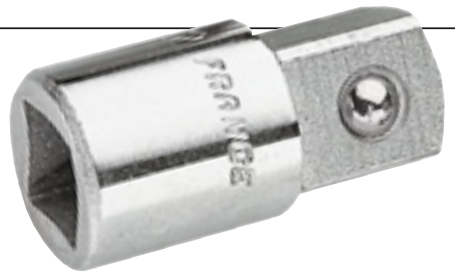
▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
• For adapting 1/4" drive sockets.
• Max. torque 62 N.m.
⚖ : 25 g.

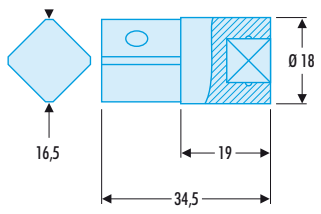


3/8" to 1/2" coupler

J.232

▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
• For adapting 1/2" drive sockets.
⚖ : 45 g.





Set of 3 couplers

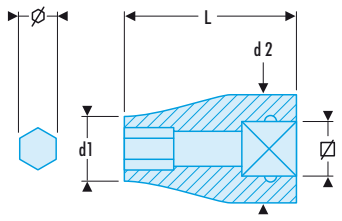
D.169

• Allows use of square drives smaller than socket drive sizes :
- 1/4" square drive + D.169RJ ▷ 3/8" socket.
- 3/8" square drive + D.169JS ▷ 1/2" socket.
- 1/2" square drive + D.169SK ▷ 3/4" socket.
• Compactness means that fewer tools are needed for in situ maintenance operations.
• Magnetic retainer and locking system (JS and SK).
• Knurl allows hand tightening where access is difficult.
⚖ : 96 g.

3/8" drive spring-clip bit holders

• Spring clip bit holding system.
• For frequent bit changes.

	∅ "	◪	d1 mm	d2 mm	L mm	⚖ g
J.235	1/4	3/8	11,3	18,0	30	26
J.236	5/16	3/8	14	18,0	30	30



3/8" drive lock-ring bit holder

EF.J

	∅ "	◪	Length mm	⚖ g
EF.J	1/4	3/8	43	48

Junior ⍁ 3/8" range.

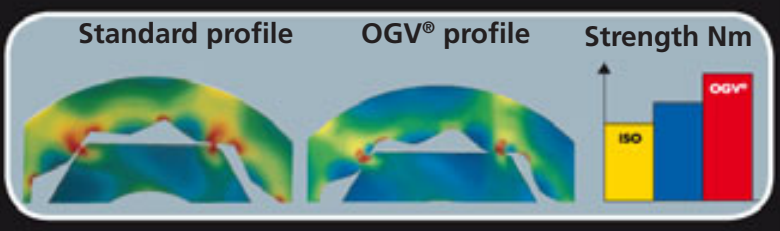
Sockets ⍁ 3/8" OGV®

Facom OGV® profile

HIGHER TORQUE WITHOUT DAMAGE TO FASTENERS !

The OGV® profile is achieved by a succession of curves instead of the flats found in conventional sockets®.

- ***More powerful tightening :***
  Larger contact area between socket and fastener minimises stress.
- ***Less wear :***
  Torque is transmitted through the fastener flats instead of the corners.
- ***Increased durability :***
  Stress concentration in the corners is eliminated.



TAG socket inserts

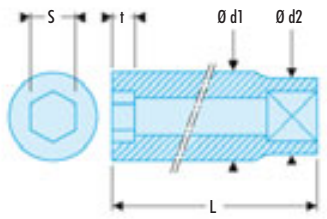
- Immediately identify your sockets.
- 6- or 12 point sockets.

TAG

J 3/8" drive metric 6 and 12-point OGV® sockets

▷ Performance : to ISO 2725-1, DIN 3124, NF ISO 2725-1.

6	12	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
J.7H	J.7	7	11,0	17,6	6,0	27	24
J.8H	J.8	8	12,2	17,6	6,5	27	25
J.9H	J.9	9	13,5	17,6	6,7	27	25
J.10H	J.10	10	14,7	17,6	7,8	27	26
J.11H	J.11	11	16,0	17,6	9,0	27	27
J.12H	J.12	12	17,2	17,6	9,5	27	26
J.13H	J.13	13	18,3	17,4	10,4	30	36
J.14H	J.14	14	19,5	17,6	10,5	30	34
J.15H	J.15	15	20,8	18,9	12,0	30	38
J.16H	J.16	16	22	19,9	12,0	30	45
J.17H	J.17	17	23,4	21,7	13,0	30	52
J.18H	J.18	18	24,7	21,7	13,0	33	69
J.19H	J.19	19	26,0	22,7	14,0	33	62
J.20H	J.20	20	27,2	22,2	15,0	33	70
J.21H	J.21	21	28,5	23,5	16,0	33	75

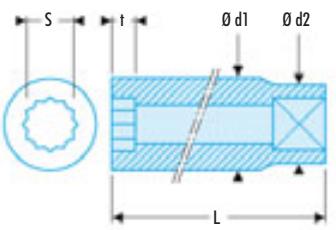


6	12	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
J.22H	J.22	22	29,7	24,7	16,5	33	80
J.23H	J.23	23	31,0	26,0	16,5	33	90
J.24H	J.24	24	31,3	26,3	16,5	33	86

J 3/8" drive inch 12-point OGV® sockets

▷ Performance : to GGG.W.641E, ANSI B 107.1, ASME B 107.1.

12	"	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
J.1/4	1/4	6,35	10,0	17,5	6,0	27	24
J.5/16	5/16	7,95	11,9	17,5	6,5	27	25
J.3/8	3/8	9,53	14,1	17,6	7,5	27	26
J.7/16	7/16	11,11	16,0	17,5	9,0	27	27
J.1/2	1/2	12,70	18,1	17,5	10,4	30	36
J.9/16	9/16	14,29	19,5	17,7	10,5	30	34
J.5/8	5/8	15,88	22,0	20,0	12,0	30	46
J.11/16	11/16	17,46	24,0	21,0	13,0	33	74
J.3/4	3/4	19,05	26	22,7	14,0	33	76
J.13/16	13/16	20,64	28,0	23,0	16,0	33	79
J.7/8	7/8	22,23	29,7	24,7	16,5	33	104
J.15/16	15/16	23,81	31,3	26,3	16,5	33	136
J.1'	1	25,40	33,3	28,3	16,5	33	156

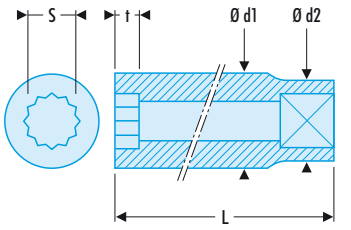


JB 3/8" drive inch 12-point OGV® sockets

▷ Performance : to AS.954E.

• Used for aeronautical applications.

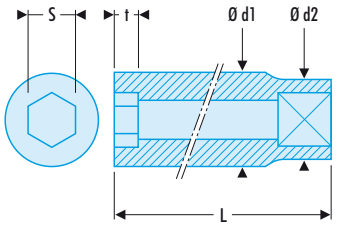
	Ø d1	Ø d2	t	L	ΔΔ
	mm	mm	mm	mm	g
JB.1/4	9,7	16,7	6,0	27	20
JB.5/16	11,7	16,7	6,8	27	21
JB.11/32	12,7	16,7	6,8	27	22
JB.3/8	13,7	16,7	7,5	27	23
JB.7/16	15,6	16,7	9,0	27	24
JB.1/2	17,6	16,7	10,4	30	27
JB.9/16	19,6	18,5	10,5	30	33
JB.5/8	21,6	20,0	12,0	30	42
JB.11/16	23,6	22,0	13,0	32	50
JB.3/4	25,4	22,8	15,0	32	55
JB.13/16	27,4	24,0	16,0	32	68
JB.7/8	29,4	24,0	16,0	32	68



J.HLA 3/8" drive long-reach metric 6 and 12-point OGV® sockets

▷ Performance : to ISO 2725-1, DIN 3124, NF ISO 2725-1.

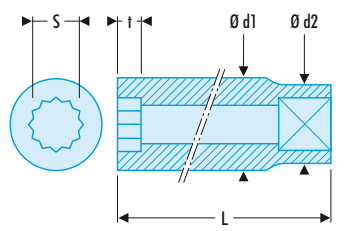
		S	Ø d1	Ø d2	t	L	ΔΔ
		mm	mm	mm	mm	mm	g
J.7HLA	J.7LA	7	10,6	17,3	6	55	44
J.8HLA	J.8LA	8	12	17,3	7,5	55	46
J.9HLA	J.9LA	9	13	17,3	7,5	55	47
J.10HLA	J.10LA	10	14,5	17,3	9	55	50
J.11HLA	J.11LA	11	16	17,3	10,5	55	53
J.12HLA	J.12LA	12	16,8	17,2	12	55	53
J.13HLA	J.13LA	13	18	17	12	55	54
J.14HLA	J.14LA	14	20	18	15	55	60
J.15HLA	J.15LA	15	21	20	15	60	75
J.16HLA	J.16LA	16	22	20	15	60	85
J.17HLA	J.17LA	17	23,5	22	15	60	102
J.18HLA	J.18LA	18	24,5	23	18	60	109
J.19HLA	J.19LA	19	25	24	18	60	110
J.21HLA	J.21LA	21	27	26	18	60	123
J.22HLA	J.22LA	22	29	28	21	60	150
J.24HLA	J.24LA	24	31	30	24	60	176



J.LA 3/8" long-reach inch 12-point OGV® sockets

▷ Performance : to ASME B 107.1.

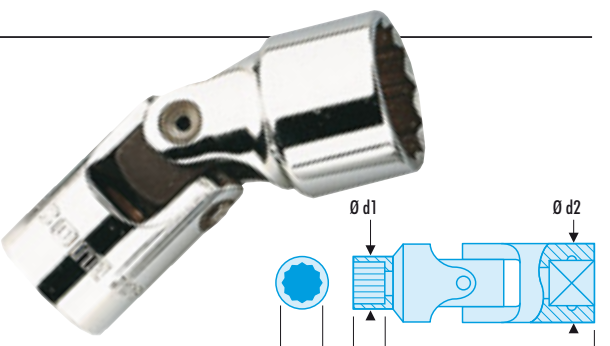
	S		Ø d1	Ø d2	t	L	ΔΔ
	"	mm	mm	mm	mm	mm	g
J.1/4LA	1/4	6,35	10,6	17,5	4,0	44,7	36
J.5/16LA	5/16	7,94	12,4	17,5	4,3	44,7	36
J.3/8LA	3/8	9,53	14,3	17,5	4,7	44,7	41
J.7/16LA	7/16	11,11	16,2	17,5	6,2	44,7	45
J.1/2LA	1/2	12,70	18,2	18,2	7,4	44,7	50
J.9/16LA	9/16	14,29	20,5	20,5	9,0	48,0	72
J.5/8LA	5/8	15,88	22,3	22,3	10,2	63,8	104
J.11/16LA	11/16	17,46	23,8	23,8	10,2	63,8	113
J.3/4LA	3/4	19,05	25,3	25,3	11,8	63,8	127
J.13/16LA	13/16	20,64	27,0	27,0	12,3	63,8	140
J.7/8LA	7/8	22,23	30,2	30,2	12,7	63,8	181
J.15/16LA	15/16	23,81	31,8	31,8	12,7	63,8	185
J.1'LA	1	25,40	33,4	33,4	12,7	63,8	185

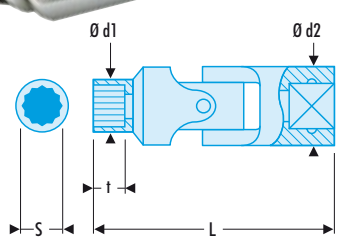


J.F 3/8" drive hinged inch 12-point OGV® sockets

▷ Performance : to ANSI B 107.1, GGG.W.641E, ASME B 107.1.

	Ø d1	Ø d2	t	L	ΔΔ
	mm	mm	mm	mm	g
J.3/8F	14,0	19,0	8,3	47,5	55
J.7/16F	15,8	19,0	9,8	49,0	55
J.1/2F	18,3	19,0	11,3	50,5	60
J.9/16F	19,5	19,0	11,3	50,5	60
J.5/8F	22,0	19,0	12,8	53,5	70
J.11/16F	24,0	19,0	13,8	54,5	72
J.3/4F	25,8	19,0	15,8	56,5	80





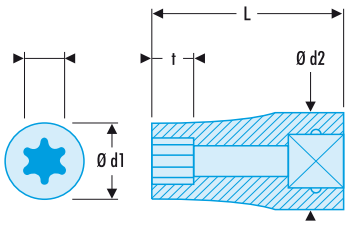
Junior ⍁ 3/8" range.

Torx sockets® ⍁ 3/8"

JTX 3/8" Torx® sockets

- For Torx® fasteners.
- Manual use.
- Polished chrome finish.

	Torx® no.	A mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
JTX.8	E8	7,29	9,9	17,3	5,6	26	40
JTX.10	E10	9,19	11,8	17,3	6,4	26	40
JTX.12	E12	10,95	14,5	17,3	8,0	26	40
JTX.14	E14	12,67	15,7	17,3	8,8	26	50
JTX.16	E16	14,70	18,0	17,3	9,6	26	100



Set of Torx® sockets

JTX.40

- Sockets supplied on a rack.

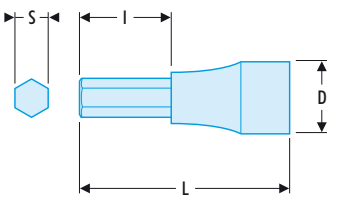
		Dimensions Torx®	Rack	g
JTX.40	5	E8 - E10 - E12 - E14 - E16	CKS.91	90

Bit sockets ⍁ 3/8"

JT 3/8" drive metric and inch bit sockets

- Removable bits.

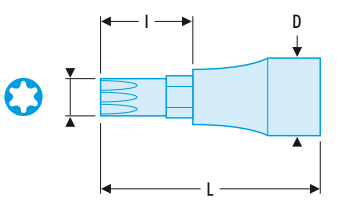
	S mm	Components		D mm	l mm	L mm	g
JT.3	3	J.235	EH.103	18	15	45	31
JT.4	4	J.235	EH.104	18	15	45	31
JT.5	5	J.235	EH.105	18	15	45	32
JT.6	6	J.235	EH.106	18	15	45	33
JT.7	7	J.235	EH.107	18	15	45	34
JT.8	8	J.236	EH.208	18	17,5	47,5	43
JT.10	10	J.236	EH.210	18	17,5	47,5	50
JT.1/8	3,17	J.235	EH.101/8	18	15	45	31
JT.5/32	3,96	J.235	EH.105/32	18	15	45	31
JT.3/16	4,76	J.235	EH.103/16	18	15	45	31
JT.7/32	5,56	J.235	EH.107/32	18	15	45	32
JT.1/4	6,35	J.235	EH.101/4	18	15	45	33
JT.5/16	7,94	J.236	EH.205/16	18	17,5	47,5	43
JT.3/8	9,53	J.236	EH.203/8	18	17,5	47,5	50



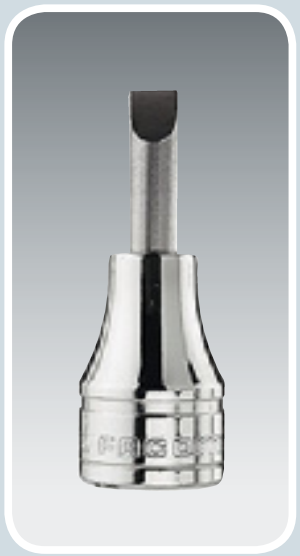
JX 3/8" drive Torx® bit sockets

- Removable bits.

	Torx® no.	A mm	Components		D mm	l mm	L mm	g
JX.10	T10	2,72	J.235	EX.110	18	16	46	33,5
JX.15	T15	3,26	J.235	EX.115	18	16	46	33,5
JX.20	T20	3,84	J.235	EX.120	18	16	46	33,5
JX.25	T25	4,40	J.235	EX.125	18	16	46	33,5
JX.27	T27	4,96	J.235	EX.127	18	16	46	33,5
JX.30	T30	5,49	J.235	EX.130	18	16	46	33,5
JX.40	T40	6,60	J.236	EX.240	18	22,5	52,5	45
JX.45	T45	7,77	J.236	EX.245	18	22,5	52,5	45
JX.50	T50	8,79	J.236	EX.250	18	22,5	52,5	47,5
JX.55	T55	11,17	J.236	EX.255	18	22,5	52,5	61



Create your own bit sockets



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Bits

Series 1 ⎔ 1/4"
Series 2 ⎔ 5/16"

See section 7 p. 345

Bit holders ⍁ 3/8"

J.235

⎔ 1/4" 6,35 mm

J.236

⎔ 5/16" 7,94 mm

p. 360

Rack set of 3/8" drive short and long-reach sockets

- Racks fit inside tool boxes, in roller cabinets, on panels.
- A range of sockets displayed for easy selection.

J	Dimensions mm / "	Rack	⍙ g
J.40E	J : 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16	CKS.94	380
JL.40E	JL : 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 15	CKS.94	590
JL.41E	JL : 16 - 17 - 18 - 19 - 21 - 22 - 24	CKS.94	870
J.40U	J : 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16	CKS.94	340
JL.40U	JL : 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 11/16 - 3/4 - 13/16	CKS.94	840

Rack set of 3/8" drive metric hexagon bit sockets

JT.40

- Comprising :

- 6 bits : JT.4-5-6-7-8-10.

- Rack CKS.91.

⍙ : 280 g.

Special ⍁ 3/8" sockets for automotive applications

For details of our 3/8" special automotive sockets, see section 18

- Spark plug sockets
- Glow plug sockets.
- Drain plug sockets
- Injector sockets

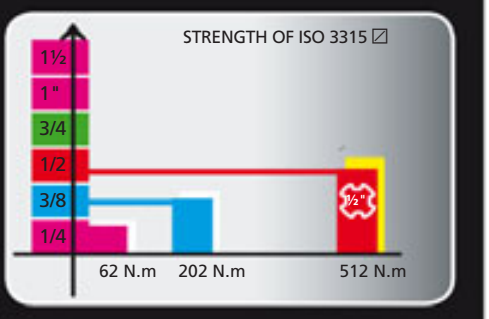
CDX® range

CDX® socket sets

CDX

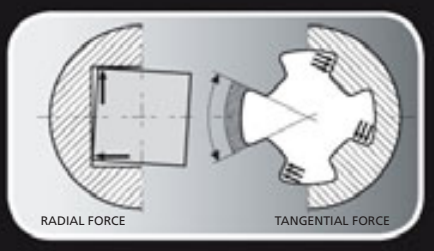
The solution to your accessibility problems

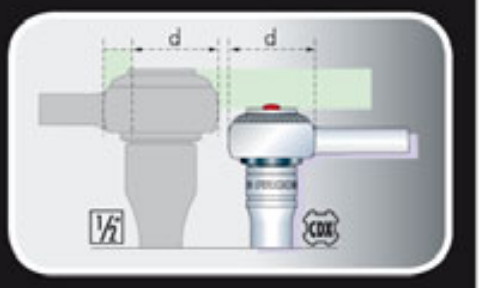
THE POWER OF A ☐ 1/2" RATCHET WITH THE COMPACTNESS OF A ☐ 3/8" !



PERFORMANCE

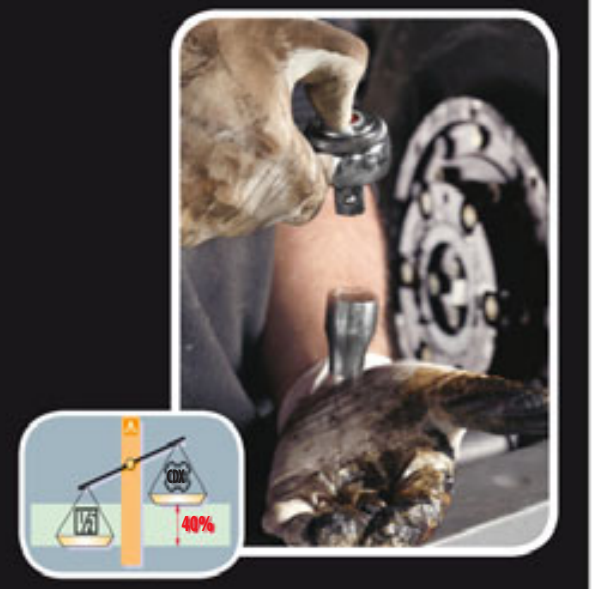
- *The special CDX® drive transmits more torque than a standard 1/2" square drive. With its shorter handle, the CDX® drive has the same torque and strength performance as a ☐ 1/2" drive while having the compactness of a ☐ 3/8".*
- *CDX® ratchets are tested to ISO 3315 paragraph. 5 applying to ☐ 1/2" ratchets.*





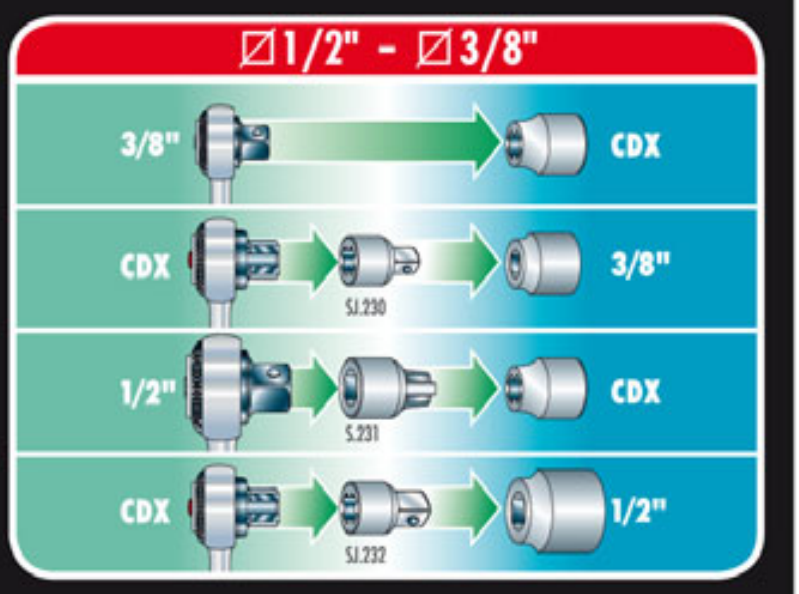
USABILITY

- *The locking mechanism resists a socket pull-off load of over 60 kg.*
- *Immediate socket release simply by pressing the button even with slippery or gloved hands.*
- *Compact ratchet is more manoeuvrable.*
- *Lighter : CDX® is 40 % lighter than a standard ☐ 1/2"ratchet = less weight to carry = less fatigue.*



COMPATIBILITY

- *CDX® drive can be used with ☐ 3/8" and ☐ 1/2" tools, either directly or via couplers.*



A COMPREHENSIVE RANGE

- *Standard and long-reach ratchets.*
- *Sockets 7 to 32 mm.*
- *6 and 12-point.*
- *Locking extensions.*
- *Universal joint.*
- *Sliding tee.*

CDX® Metric socket and bit sets

CDX

SJ.440 12

CDX.4 6

CDX.5 6

		SJ.440	CDX.4	CDX.5
		SJ.171	SJ.171	SJ.174
		12 6	6	6
		SJ.	SJ.H	SJ.H
CDX	7	●		
	8	●	●	●
	9	●	●	●
	10	●	●	●
	11	●	●	●
	12	●	●	●
	13	●	●	●
	14	●	●	●
	15	●	●	●
	16	●	●	●
	17	●	●	●
	18	●	●	●
	19	●	●	●
	21	●	●	●
	22	●	●	●
	23	●		
	24	●	●	●
	26	●		
	27	●	●	●
	30		●	●
	32		●	●
	SJ.240	●	●	●
	SJ.210R	●	●	●
	SJ.215R	●	●	●
	SJ.230		●	●
	SJ.231		●	●
	SJ.232			
	SJ.235	●		
	SJ.236	●		
	SJ.120	●		
ED	2	●		
	3	●		
	4	●		
EH	5	●		
	6	●		
	8	●		
	10	●		
ES	6,5	●		
	8	●		
	10	●		
		PL.300A	PL.617	
		BP.109	BP.112	
		478 x 234 x 72 mm	389 x 164 x 66 mm	
		4,05	2,75	2,80

CDX® range

CDX® Metric socket sets

WITH ITS UNIQUE DESIGN, THE CDX® RATCHET HAS THE TORQUING POWER OF A ☐ 1/2" RATCHET BUT IS MUCH MORE COMPACT. P. 218

		SJ.431A	SJ.430A	SJ.430AD	SJ.431B	MOD.CDX
		SJ.171	SJ.171	SJ.171	SJ.171	SJ.171
		6	12	12	6	6
		SJ.H	SJ.	SJ.	SJ.H	SJ.H
CDX	7					
	8	●	●	●	●	●
	9	●	●	●	●	●
	10	●	●	●	●	●
	11	●	●	●	●	●
	12	●	●	●	●	●
	13	●	●	●	●	●
	14	●	●	●	●	●
	15	●	●	●	●	●
	16	●	●	●	●	●
	17	●	●	●	●	●
	18	●	●	●	●	●
	19	●	●	●	●	●
	21	●	●	●	●	●
	22	●	●	●	●	●
	23					
	24	●	●			●
	26	●	●			
	27	●	●			●
	30					
	32					
	SJ.240	●	●	●	●	●
	SJ.210R	●	●	●	●	●
	SJ.215R	●	●	●	●	●
	SJ.230					●
	SJ.231					
	SJ.232					●
	SJ.235					
	SJ.236					
	SJ.120					
ED	2					
	3					
	4					
EH	5					
	6					
	8					
	10					
ES	6,5					
	8					
	10					
		PL.425		PL.424	PL.298	PL.355
		BP.112			BT.112G	-
		389 x 164 x 66 mm				420 x 180 x 55 mm
		2,90 kg	2,90 kg	2,90 kg	3,10 kg	2,12 kg

SJ.431A 6
SJ.430A 12

SJ.430AD 12

SJ.431B 6

MOD.CDX 6

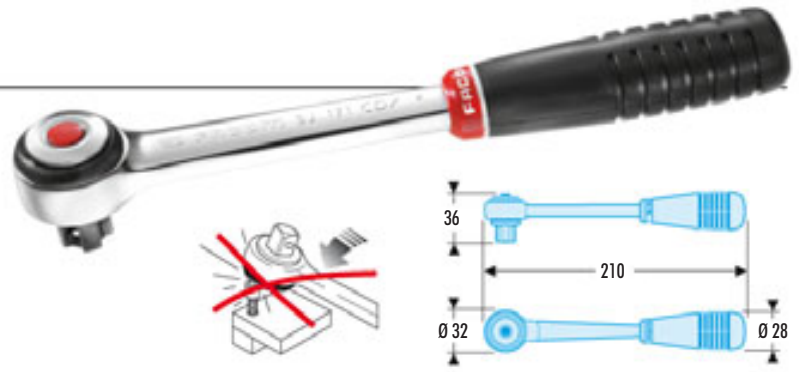
CDX® ratchets

Locking CDX® ratchet

SJ.171

- CDX® drive.
- 72 tooth mechanism. 5° increments.
- "Palm control" system.
- Satin chrome finish.

⚖ : 280 g.

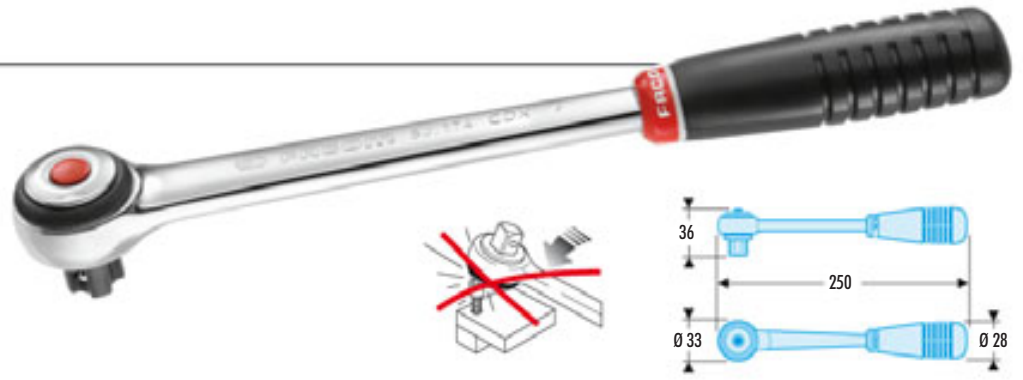


Long-reach locking CDX® ratchet

SJ.174

- CDX® drive.
- 72 tooth mechanism. 5° increments.
- "Palm control" system.
- Satin chrome finish.

⚖ : 320 g.



CDX® accessories

Locking system = total safety

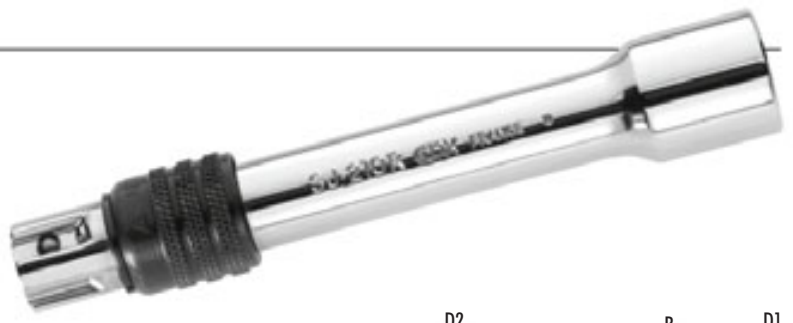
- Resists a socket pull-off load of over 60 kg
- Prevents accidental socket loss
- Instantly unlocks by retracting the knurled ring.

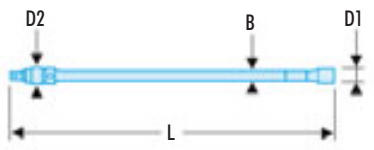
Use only with sockets equipped with an internal ball notch.

SJ.R Locking CDX® extensions

- Safety lock.
- Prevents the loss of sockets or accessories, the locking system is ideal in crowded assemblies.

1. Push fit.
2. Socket positively locked.





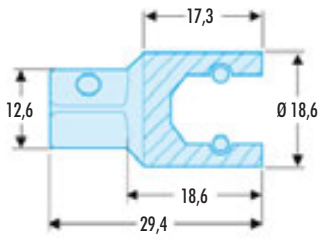
	B mm	D1 mm	L mm	D2 mm	⚖ g
SJ.210R	14,8	20,5	125	20,5	190
SJ.215R	14,8	20,5	250	20,5	360

CDX® range

CDX® to 3/8" coupler

SJ.230

- Female CDX® drive.
- Male 3/8" square drive.
- For adapting ☐ 3/8" sockets and accessories to a CDX® ratchet.

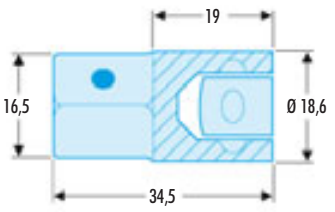


CDX® to 1/2" coupler

SJ.232

- Female CDX® drive.
- Male 1/2" square drive.
- For adapting sockets and accessories ☐ 1/2".

⚖ : 46 g.

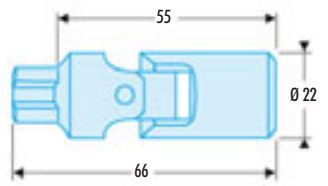


CDX universal joint®

SJ.240

- Spring-stiffened joints.
- Stays in position.
- Optimum accessibility

⚖ : 125 g.

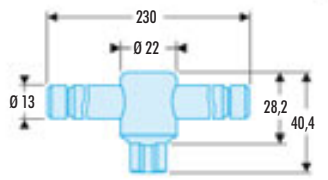


CDX sliding tee®

SJ.120

- Sliding bar.
- Friction-steadied head.

⚖ : 300 g.

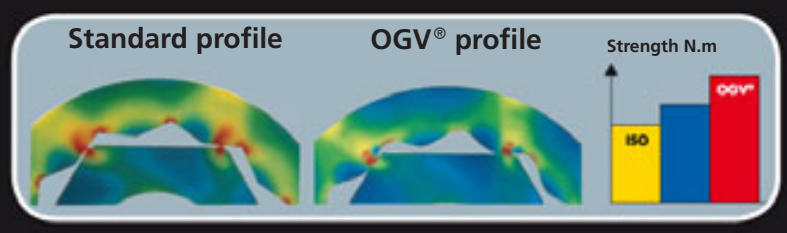


Facom OGV® profile

HIGHER TORQUE WITHOUT DAMAGING THE FASTENERS !

The OGV® profile is achieved by a succession of curves instead of the flats found in conventional sockets®.

- ***More powerful tightening :***
  Larger contact area between socket and fastener minimises stress.
- ***Less wear :***
  Torque is transmitted through the fastener flats instead of the corners.
- ***Increased durability :***
  Stress concentration in the corners is eliminated.



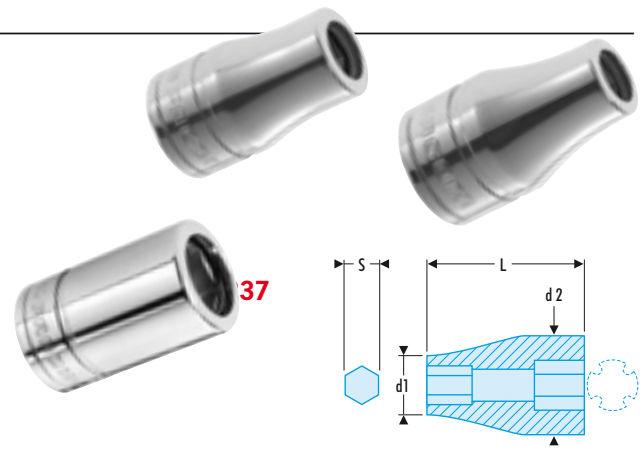
The TAG socket inserts

- Immediately identify your sockets.
- 6- or 12 point sockets.

TAG

CDX® spring-clip bit holders

	S	d1	d2	L	
	"	mm	mm	mm	g
SJ.235	1/4	11,3	18,6	30	28
SJ.236	5/16	14	18,6	30	32
SJ.237	1/2	20,6	20,6	34,4	40

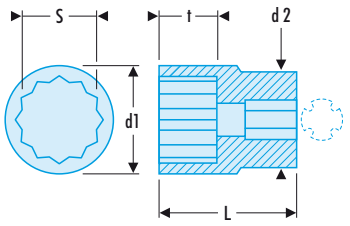


CDX® OGV® sockets

SJ Metric OGV® sockets

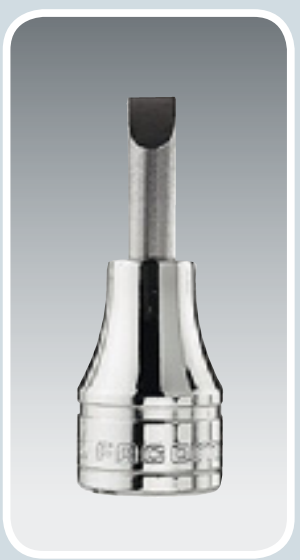
• CDX® system.

		S	Ø d1	Ø d2	t	L	
6	12	mm	mm	mm	mm	mm	g
SJ.7H	SJ.7	7	10,8	18,6	6,0	27	24
SJ.8H	SJ.8	8	12,8	18,6	6,5	27	25
SJ.9H	SJ.9	9	13,3	18,6	6,8	27	25
SJ.10H	SJ.10	10	14,5	19,7	7,5	27	25
SJ.11H	SJ.11	11	15,8	19,7	8	27	30
SJ.12H	SJ.12	12	17,0	19,7	9,0	27	32
SJ.13H	SJ.13	13	18,3	19,7	9,5	27	33
SJ.14H	SJ.14	14	19,5	18,6	11,0	30	35
SJ.15H	SJ.15	15	20,8	19,0	12,0	30	38
SJ.16H	SJ.16	16	22,0	20,0	12,0	30	41
SJ.17H	SJ.17	17	23,4	21,7	13,0	30	50
SJ.18H	SJ.18	18	24,7	21,7	13,5	33	60
SJ.19H	SJ.19	19	26,0	23,0	14,0	33	62
SJ.20H	SJ.20	20	27,2	22,2	15,0	33	62
SJ.21H	SJ.21	21	28,5	23,5	16,0	33	73
SJ.22H	SJ.22	22	29,5	23,5	16,5	33	75
SJ.23H	SJ.23	23	31,0	26,0	16,5	33	90
SJ.24H	SJ.24	24	31,3	26,3	16,5	33	87
SJ.26H	SJ.26	26	34,2	29,2	16,5	33	115
SJ.27H	SJ.27	27	35,5	30,5	19,0	38	140
SJ.28H		28	37	31,1	20	38	156
SJ.29H		29	38	31,9	20	38	159
SJ.30H		30	39,4	33,1	20	38	172
SJ.32H		32	41,4	33,1	20	38	191



CDX bits®

Create your own bit sockets



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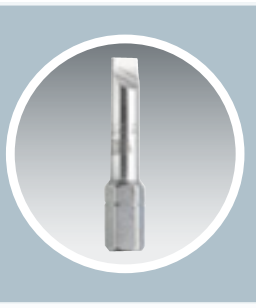


Bits

Series 1 ⎔ 1/4"
Series 2 ⎔ 5/16" See section 7 p. 345

Bit holders

SJ.235 SJ.236 SJ.237

p. 360

⎔ 1/4" 6,35 mm ⎔ 5/16" 7,94 mm ⎔ 1/2" 12,70 mm

Standard ☐ 1/2" range

Socket sets ☐ 1/2"

☐ 1/2+1/4" Metric socket and bit sets

RS.440E 6

RS.430E 6

S.800 6

S.900 6

S.447DP 6
S.446DP 12

		RS.440E		RS.430E		S.800	S.900	S.447DP	S.446DP
		S.161 + R.161		S.151 + R.151		S.161	S.161	S.161	S.161
		6	6	6	6	6	6	6	12
☐ 1/2". 12.7mm		S.H	R.	S.H	R.	S.H	S.H	S.H	S.
	5				●				
	5,5		●		●				
	6		●		●				
	7		●		●				
	8		●		●	●	●		
	9		●		●				
	10	●	●	●	●	●	●	●	●
	11	●	●	●	●	●	●	●	●
	12	●	●	●	●	●	●	●	●
	13	●	●	●	●	●	●	●	●
	14	●	●	●		●	●	●	●
	15			●		●	●	●	●
	16	●		●		●	●	●	●
	17	●		●		●	●	●	●
	18	●		●		●	●	●	●
	19	●		●		●	●	●	●
	21	●		●		●	●	●	●
	22	●		●		●	●	●	●
	23							●	●
	24	●		●		●	●	●	●
	26							●	●
	27	●				●	●	●	●
	28							●	●
	29								
	30	●				●	●	●	●
	32	●				●	●	●	●
	34					●			
	S.206					●			
	S.208						●		
	S.210				●		●	●	●
	S.210S		●						
	S.215				●	●		●	●
	S.240A				●	●	●	●	●
	S.120A							●	●
	S.236					●	●	●	●
	S.237							●	●
	R.209	●							
	R.210	●		●					
	R.240A	●							
	R.235	●							
	R.236	●		●					
EP	1	●				●			
	2	●				●			
	3	●				●			
ED	1	●				●	●		
	2	●				●	●		
	3	●				●	●		
ES	4,5	●							
	6,5	●				●			
	8	●				●			
	10					●			
EH	3	●							
	4	●				●	●		
	5	●				●	●		
	6	●				●	●	●	●
	7	●							
	8					●	●	●	●
	10					●	●	●	●
EHL	4					●	●		
	5					●	●		
	6					●	●		
	7					●	●		
	8					●	●		
	10					●	●		
EX	20					●	●		
	25					●	●		
	27					●	●		
	30					●	●		
	40					●	●		
	45					●	●		
	55						●		
EXR	10	●							
	15	●							
	20	●							
	25	●							
	27	●							
	30	●							
	40	●							
EXL	30						●		
	40						●		
	45						●		
	50						●		
ENH	12							●	●
	14							●	●
		PL.714		PL.112A		PL.706	PL.705	PL.291A	PL.291A
		BP.109							
		478 x 234 x 72 mm							
		3,92 kg		3,56 kg		4,70 kg	4,30 kg	5,00 kg	5,00 kg

◪ 1/2" Metric socket sets

- S.441AP 6
- SM.441EP 6
- S.441E 6
- S.440AP 12
- SM.440EP 12
- S.440E 12

S.161

SM.161

- S.431ADP 6
- S.430ADP 12

- S.431DP 6

- S.442EP 12

	S.441AP	SM.441EP	S.441E	S.440AP	SM.440EP	S.440E	S.431ADP	S.430ADP	S.442EP	S.431DP
	S.161	SM.161	S.151	S.161	SM.161	S.151	S.161	S.161	S.161	S.161
12 6	6	6	6	12	12	12	6	12	12	6
◪ 1/2".12.7mm	S.H	S.H	S.H	S.	S.	S.	S.H	S.	S.	S.H
8	•	•	•	•	•	•			•	
9	•	•	•	•	•	•			•	
10	•	•	•	•	•	•	•	•	•	•
11	•	•	•	•	•	•	•	•	•	•
12	•	•	•	•	•	•	•	•	•	•
13	•	•	•	•	•	•	•	•	•	•
14	•	•	•	•	•	•	•	•	•	•
15	•	•	•	•	•	•	•	•	•	•
16	•	•	•	•	•	•	•	•	•	•
17	•	•	•	•	•	•	•	•	•	•
18	•	•	•	•	•	•	•	•	•	•
19	•	•	•	•	•	•	•	•	•	•
20							•	•		•
21	•	•	•	•	•	•	•	•	•	•
22	•	•	•	•	•	•	•	•	•	•
23	•	•	•	•	•	•	•	•	•	•
24	•	•	•	•	•	•	•	•	•	•
26	•	•	•	•	•	•	•	•	•	•
27	•	•	•	•	•	•	•	•	•	•
28	•	•	•	•	•	•	•	•	•	•
29	•	•	•	•	•	•	•	•	•	
30	•	•	•	•	•	•	•	•	•	•
32	•	•	•	•	•	•	•	•	•	•
34	•	•	•	•	•	•				
S.210	•	•	•	•	•	•	•	•	•	•
S.215	•	•	•	•	•	•	•	•	•	•
S.240A	•	•	•	•	•	•	•	•	•	•
S.120A	•	•	•	•	•	•	•	•	•	•
S.110	•	•	•	•	•	•			•	
	PL.708						PL.701		P.21	PL.235
	BP.109								BT.6A	BT.109G
	478 x 234 x 72 mm								468 x 190 x 160 mm	470 x 195 x 53 mm
	5,95 kg	6,05 kg	5,95 kg	5,95 kg	6,05 kg	5,95 kg	4,88 kg	4,88 kg	7,68 kg	4,82 kg

Standard ◪ 1/2" range

◪ 1/2" Metric socket sets

LOCKING RATCHETS AND EXTENSIONS :
CAN RESIST A SOCKET PULL-OFF FORCE OF OVER. 600 NEWTONS
SECURE RATCHET/EXTENSION/SOCKET ATTACHMENT
NO MORE LOST SOCKETS

S.500 6

S.200DP 6

S.600 6

S.161

SM.600 6

SM.161

		S.500	S.200DP	S.600	SM.600
		S.171	S.161	S.161	SM.161
		6	6	6	6
◪ 1/2".12.7mm		S.H	S.H	S.H	S.H
	8			●	●
	9				
	10	●	●	●	●
	11	●	●	●	●
	12	●	●	●	●
	13	●	●	●	●
	14	●	●	●	●
	15	●	●		
	16	●	●	●	●
	17	●	●	●	●
	18	●	●	●	●
	19	●	●	●	●
	20				
	21	●	●	●	●
	22	●	●	●	●
	23	●	●	●	●
	24	●	●	●	●
	26				
	27	●	●	●	●
	28				
	29				
	30	●	●	●	●
	32	●	●	●	●
	34				
	S.210		●		
	S.215		●	●	●
	S.240A	●	●	●	●
	S.210RC	●			
	S.215RC	●			
		PL.618		PL.619	
		BP.112			
		389 x 164 x 66 mm			
		3,57 kg	3,45 kg	3,45 kg	3,55 kg

◪ 1/2" Metric socket sets

A WIDE RANGE OF SOCKET SETS TO MEET YOUR NEEDS...

... IN ALL SITUATIONS AND ALWAYS CLOSE TO HAND

		S.429EP	S.428EP	S.423AP	S.422AP	S.420B
	S.161	S.161	S.161	S.161	S.151
12 6	6	12	6	12	12
◪ 1/2". 12.7mm	S.H	S.	S.H	S.	S.
8			●	●	
9			●	●	
10	●	●	●	●	●
11	●	●	●	●	●
12	●	●	●	●	●
13	●	●	●	●	●
14	●	●	●	●	●
15	●	●	●	●	●
16			●	●	●
17	●	●	●	●	●
18			●	●	●
19	●	●	●	●	●
20					
21			●	●	●
22	●	●	●	●	●
23			●	●	
24	●	●	●	●	●
26					
27	●	●			
28					
29					
30	●	●			
32	●	●			
34					
S.210	●	●	●	●	
S.215	●	●	●	●	●
S.240A	●	●	●	●	
S.120A	●	●			
S.110					
S.210RC					
S.215RC					
	PL.10A		PL.422		PL.423
	BP.109		BP.112		
	478 x 234 x 72 mm		389 x 164 x 66 mm		
	4,03 kg	4,03 kg	2,92 kg	2,92 kg	2,33 kg

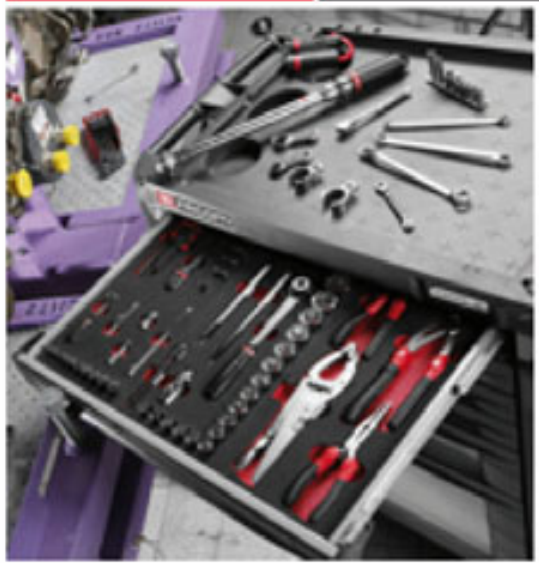
S.429EP 6
S.428EP 12

S.423AP 6
S.422AP 12

S.420B 12

Standard ◪ 1/2" range

◪ 1/2" Metric socket modules



FACOM FOAM MODULES :

- *HIGH DENSITY FOAM : GOOD RESISTANCE TO CRUSHING AND WORKSHOP SOLVENTS.*
- *EASY IDENTIFICATION OF MISSING TOOLS.*

		MODM.S1A	MOD.S1	MOD.SM1
		S.161	S.161	SM.161
		6	6	6
	1/2".12.7mm	S.H	S.H	S.H
	8	●		
	9			
	10	●	●	●
	11	●	●	●
	12	●	●	●
	13	●	●	●
	14	●	●	●
	15	●	●	●
	16	●	●	●
	17	●	●	●
	18	●	●	●
	19	●	●	●
	20			
	21	●	●	●
	22	●	●	●
	23	●	●	●
	24	●	●	●
	26			
	27	●	●	●
	28			
	29			
	30	●	●	●
	32	●	●	●
	34			
	S.210	●	●	●
	S.215	●	●	●
	S.240A	●	●	●
	S.120A	●		
		PM.S1A	PL.323	PL.323
			-	
		420 x 190 x 55 mm	420 x 180 x 55 mm	
		3,45 kg	3,32 kg	3,42 kg

MODM.S1A 6

MOD.S1 6

S.161

MOD.SM1 6

SM.161

◪ 1/2" Metric long-reach socket and bit sets

LONG-REACH SOCKETS :

- ***FOR TIGHTENING AND LOOSENING NUTS ON PROTRUDING THREADS.***
- ***CLEARS OBSTACLES.***
- ***EASIER ACCESS TO RECESSED FASTENERS.***

		S.450EP		S.405E	S.404E	S.401A	S.400A	MOD.HLA	
		S.161		-	-	-	-	-	
		12	12	6	12	6	12	6	6
◪ 1/2".12.7mm		S.	S.LA	S.HLA	S.LA	S.H	S.	S.HLA	J.HLA
	7								●
	8	●				●	●		●
	9	●				●	●		●
	10	●				●	●		●
	11	●				●	●	◪ 1/2"	●
	12	●	●	●	●	●	●	●	◪ 3/8"
	13	●	●	●	●	●	●	●	
	14	●	●	●	●	●	●	●	
	15	●	●	●	●	●	●	●	
	16	●	●	●	●	●	●	●	
	17	●	●	●	●	●	●	●	
	18	●	●	●	●	●	●	●	
	19	●	●	●	●	●	●	●	
	21	●	●	●	●	●	●		
	22	●	●	●	●	●	●		
	23	●	●	●	●	●	●		
	24	●	●	●	●	●	●		
	26	●	●	●	●	●	●		
	27	●	●	●	●	●	●		
	28	●	●			●	●		
	29	●	●			●	●		
	30	●	●	●	●	●	●		
	32	●	●	●	●	●	●		
	S.210	●							
	S.215	●							
	S.240A	●							
	S.120A	●							
	S.110	●							
	S.236	●							
	S.237	●							
	S.234	●							
	S.141A	●							
ED	3	●							
	4	●							
ENS	4	●							
	6	●							
		PLT.11, PL.23, PL.24A		PL.52B		PL.413		PL.609	
		BT.108		BP.109		BP.112		-	
		452 x 284 x 111 mm		478 x 234 x 72 mm		389 x 164 x 66 mm		420 x 180 x 55 mm	
		14,86 kg		4,65 kg	4,65 kg	2,69 kg	2,69 kg	1,62 kg	

S.450EP 12

S.405E 6

S.404E 12

S.401A 6

S.400A 12

MOD.HLA 6

Standard ◪ 1/2" range

◪ 1/2" Torx® socket, bit and wrench sets

SEE SECTION 4 FOR TORX® RING WRENCHES
SEE SECTION 6 FOR TORX® BITS

		RSX.427P		RSX.19A		MOD.TX1	
		R.161 + S.161		-		-	
◪ 1/2".12.7mm		RTX.	STX.	RTX.	STX.	JTX.	STX.
	4	●					
	5	●					
	6	●		●			
	7	●		●		◪ .3/8"	
	8	●		●		●	
	10	●	◪ .1/2"	●	◪ .1/2"	●	
	12	◪ .1/4"	●	◪ .1/4"	●	●	
	14		●		●	●	
	16		●		●	●	◪ .1/2"
	18		●		●		●
	20		●		●		●
	AMZ.H	●					
	R.235	●		●		●	
	S.236			●		●	
	J.235					●	
SXM ◪ .1/2"	27	●					
	30	●					
	40	●					
	45	●					
	50	●					
EXR	10			●		●	
	15			●		●	
	20			●		●	
	25			●		●	
	27			●			
	30			●		●	
	40			●		●	
EX	8	●					
	10	●					
	15	●					
	20	●					
	25	●					
	27	●					
	40					●	
	45					●	
	50					●	
	55					●	
EX	245			●			
	250			●			
	255			●			
59TX	6x8					●	
	10x12					●	
	14x18					●	
	20x24					●	
		PL.220B		PL.393A		PL.360	
		BP.112		BP.102		-	
		389 x 164 x 66 mm		204 x 122 x 52 mm		420 x 180 x 55 mm	
		2,00 kg		0,62 kg		0,99 kg	

RSX.427

RSX.19A

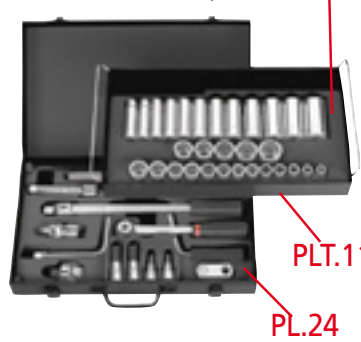
MOD.TX1

◪ 1/2" Inch socket and bit sets

		S.441AUP	S.440AUP	S.450UP		S.420AU	MOD.S2	MOD.SM2
		S.161	S.161	S.161+S.156		S.151	S.161	SM.161
12 6		6	12	12	12	12	12	12
◪ 1/2".12.7mm		S.H	S.	S.	S.LA	S.	S.	S.
	3/8	●	●	●		●	●	●
	7/16	●	●	●		●	●	●
	1/2	●	●	●	●	●	●	●
	9/16	●	●	●	●	●	●	●
	19/32	●	●	●			●	●
	5/8	●	●	●	●	●	●	●
	21/32	●	●	●			●	●
	11/16	●	●	●	●	●	●	●
	3/4	●	●	●	●	●	●	●
	25/32	●	●	●				
	13/16	●	●	●	●	●	●	●
	7/8	●	●	●	●	●	●	●
	15/16	●	●	●	●			
	31/32	●	●	●				
	1	●	●	●	●			
	1'1/16	●	●	●	●			
	1'1/8	●	●	●	●			
	1'1/4	●	●	●	●			
	S.210	●	●	●			●	●
	S.215	●	●	●		●	●	●
	S.240A	●	●	●			●	●
	S.120A	●	●	●		●		
	S.110	●	●	●				
	S.236			●				
	S.237			●				
	S.234			●				
	S.141A			●				
ED	3			●				
	4			●				
ENS	14			●				
	16			●				
		PL.702		PLT.11 PL.23 PL.25A		PL.415	PL.604	
		BP.109		BT.108		BP.112	-	
		478 x 234 x 72 mm		452 x 284 x 111 mm		389 x 164 x 66 mm	420 x 180 x 55 mm	
		5,18 kg	5,18 kg	13,03 kg		2,43 kg	2,95 kg	3,05 kg

S.441AUP 6
S.440AUP 12

S.450UP 12



S.420AU 12

MOD.S2 12

S.161

MOD.SM2 12

SM.161

Standard ☐ 1/2" range

☐ 1/2" "Standard" ratchets

Facom "round head" ratchets

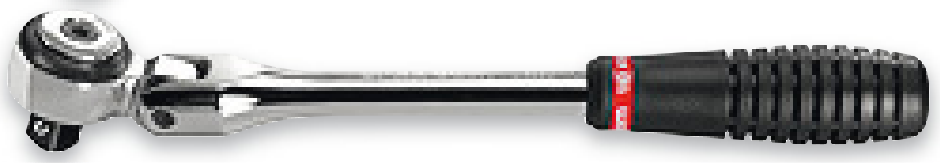
S.171

S.161

S.151

S.154

S.143A



S.153A

The solution for congested spaces

Compact :

- *The Facom ratchet mechanism ensures a very compact round head.*

Precise :

- *72-tooth mechanism gives increments of only 5°.*

High performance :

- *Meet the requirements of ISO 3315, DIN 3122 NF ISO 3315.*

Metal grip ratchets

S.155A

S.157A

S.158A

- *Ideal for environments where PVC grips are vulnerable to solvent attack.*

S.156

Ratchet attachment.
Female drive : ☐ 1/2"..
Male drive : ☐ 1/2".

"Parking meter" ratchets

SM.171

SM.161

SM.150

Sturdy :

- *"Parking meter" ratchets are ideal for use in difficult working conditions : their mechanism is protected and has fewer teeth (50) than a "round-head" ratchet (72).*

Ergonomic *:*

- *Recessed reverse lever avoids accidental reversal and is easier to operate with gloved hands.*

◪ 1/2" Selection guide

Locking system

Safe : Locking system can resist a socket pull-off force of up to 600 Newtons. No lost sockets.
Ergonomic Immediate socket release simply by pressing the button, even with slippery or gloved hands.

Palm control system

Ergonomic Allows the operator to push down on the head of the ratchet while avoiding accidental reversal.

Long handle

Power : Transmits more torque without over-loading the ratchet mechanism.

Metal handle

Sturdy : Ideal for environments where PVC grips are vulnerable to solvent attack.
Grip : Knurled to avoid all risk of slippage.

"Parking meter" ratchets

Ideal for use in difficult working conditions : protected mechanism.

Hinged handle

Hinged handle with stiffened joint for optimum clearance.

Precautions of use

	S.171	S.161	S.151	S.154	S.143A	S.153A	SM.171	SM.161	SM.150	S.155A	S.157A	S.158A	S.156
Advantages													
Locking system	●						●						
Palm control system	●	●			●	●	●	●	●	●	●	●	
Long handle				●		●					●	●	
Metal handle										●	●	●	
"Parking meter" head							●	●	●				
Hinged handle					●	●						●	
Characteristics													
Increments	5°	5°	5°	5°	5°	5°	7°	7°	7°	5°	5°	5°	5°
No of teeth	72	72	72	72	72	72	50	50	50	72	72	72	72
L (mm)	250	250	251	400	266	400	259.5	259.5	259.5	257	380	430	-
l (mm)	231	231	232	380	247	381	238	238	238	238	361	411	-
a (mm)	44	43	40	40	43	43	38	38	38	43	43	43	59
b (mm)	38.5	38.5	38.5	39.5	38	38	43	43	43	38.5	38.5	37	39
c (mm)	28.5	27.5	24.5	24.5	27.5	27.5	22.5	22.5	22.5	27.5	27.5	27.5	39
Ø (mm)	31	31	29	29	31	31	31	31	31	19	19	19	-
g	495	490	475	780	598	755	600	605	580	570	725	930	230
Maintenance													
Knurl caps													
S.161C		●			●	●				●	●	●	
S.151C			●	●									
S.156C													●
SM.150C							●	●	●				
Spare parts kit													
S.161RN		●			●	●				●	●	●	
S.151RN			●	●									●
SM.150RN								●	●				
SM.171RN							●						
Square drives													
S.151R		●	●	●	●	●				●	●	●	●
SM.150-04								●	●				
SM.171-04							●						

Standard ⍁ 1/2" range

Accessories ⍁ 1/2"

1/2" drive sliding tee

S.120

▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Friction-head allows bar to form a T or L-handle.
⚖ : 408 g.
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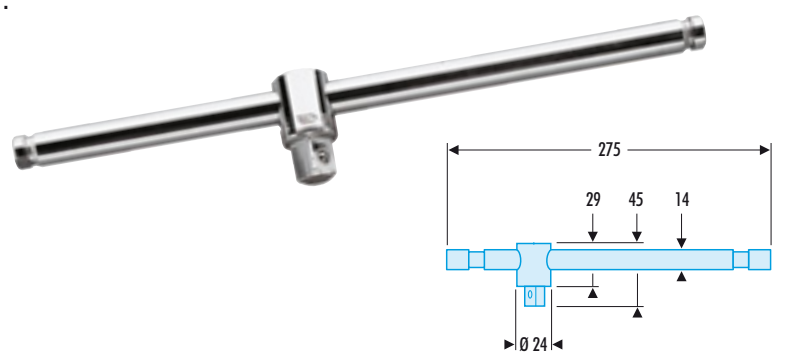
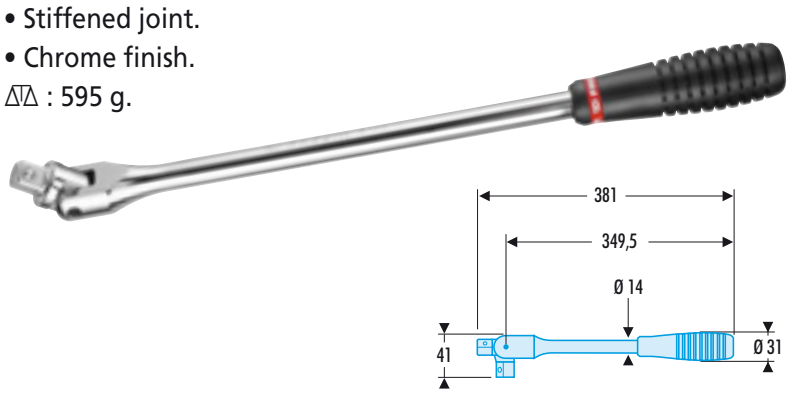


1/2" drive hinged handle 381 mm

S.141A

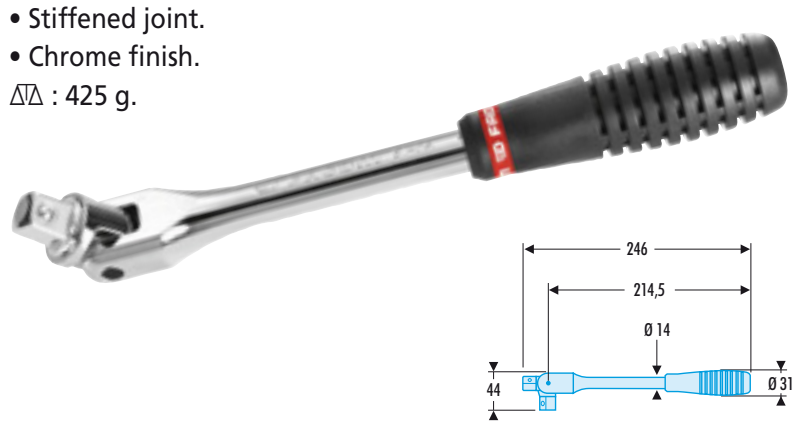
▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Stiffened joint.
• Chrome finish.
⚖ : 595 g.



1/2" drive hinged handle 246 mm

S.140A

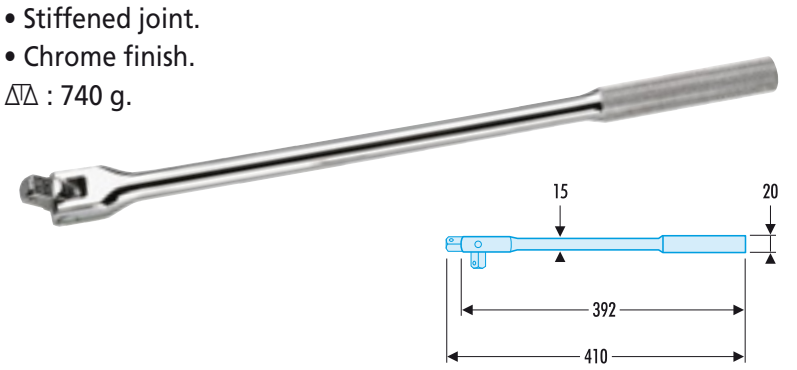
▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Stiffened joint.
• Chrome finish.
⚖ : 425 g.



1/2" drive metal-grip hinged handle 410 mm

S.145

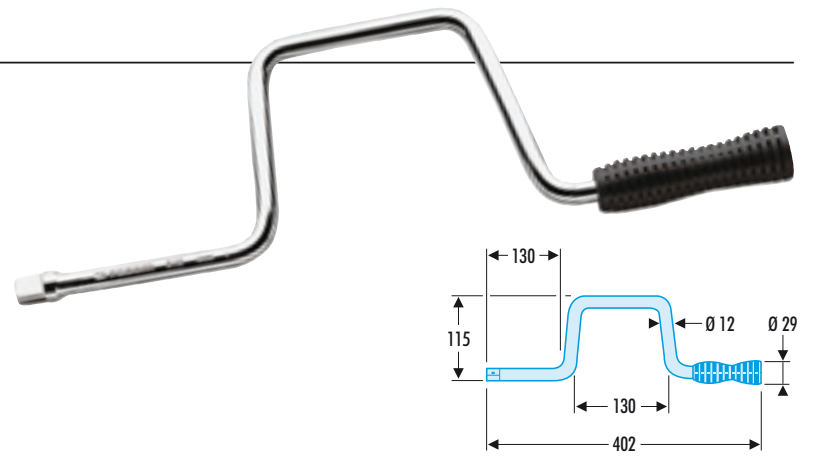
▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Stiffened joint.
• Chrome finish.
⚖ : 740 g.



1/2" drive speed brace

S.110

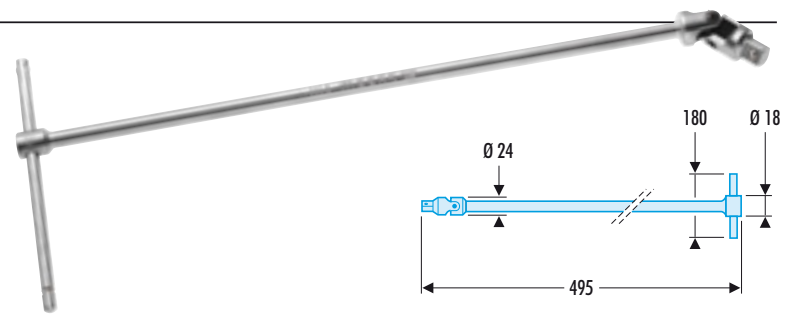
▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Significant time-savings whenever space allows.
• PVC rotating handle.
• Chrome finish.
⚖ : 510 g.



1/2" drive tee with universal joint 495 mm

S.229

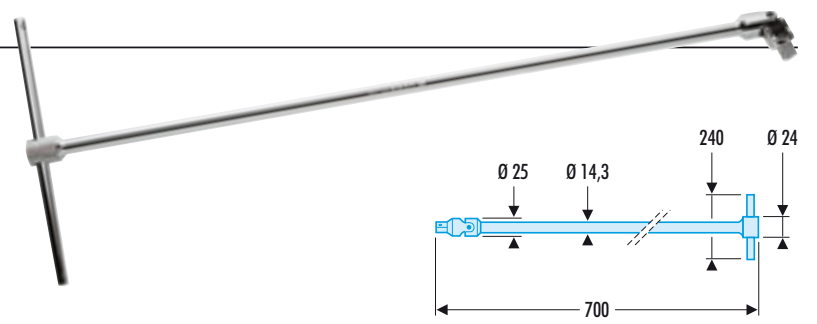
▷ Performance : to ISO 1174-1, DIN 3120, NF ISO 1174-1.
• Universal joint for high torques.
⚖ : 550 g.
.



1/2" drive tee with universal joint 700 mm

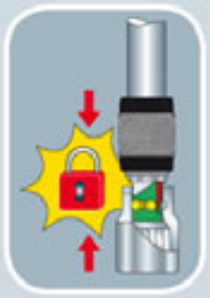
S.228

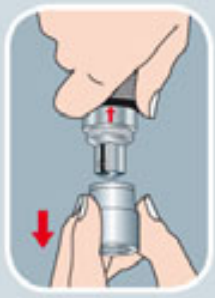
▷ Performance : to ISO 1174-1, DIN 3120, NF ISO 1174-1.
• Extended reach of tee-handle is ideal for particularly deep recesses.
⚖ : 1.2 kg.



Locking system = total safety

- Resists a socket pull-off load of over 60 kg
- Prevents accidental socket loss
- Instantly unlocks by retracting the knurled ring.



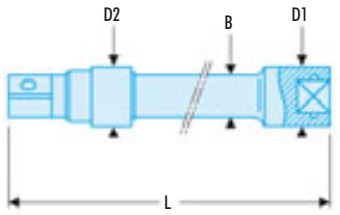


Use only with sockets equipped with an internal ball notch.

S.RC 1/2" drive locking extensions

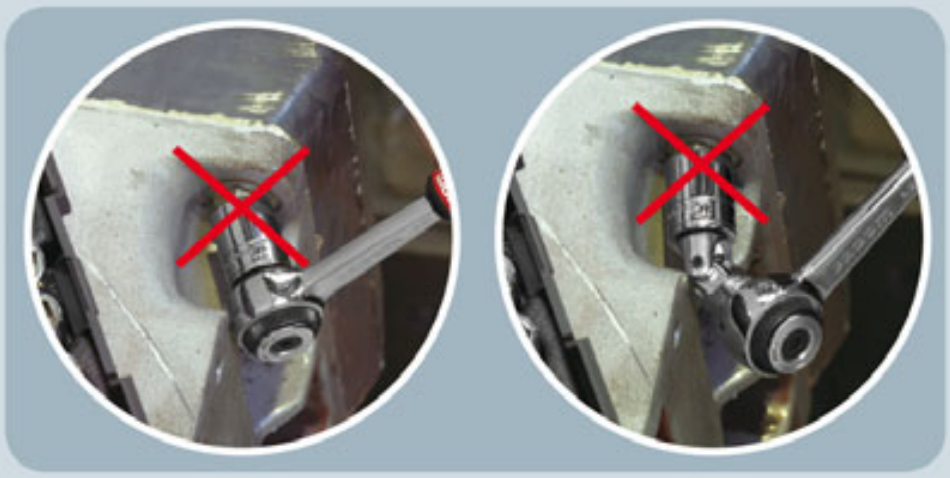
- Total safety.
- Lock system prevents socket loss.
- Safety and instant release, by retracting knurled ring, for total user confidence.
- Positive locking for use with sockets with internal ball notch.

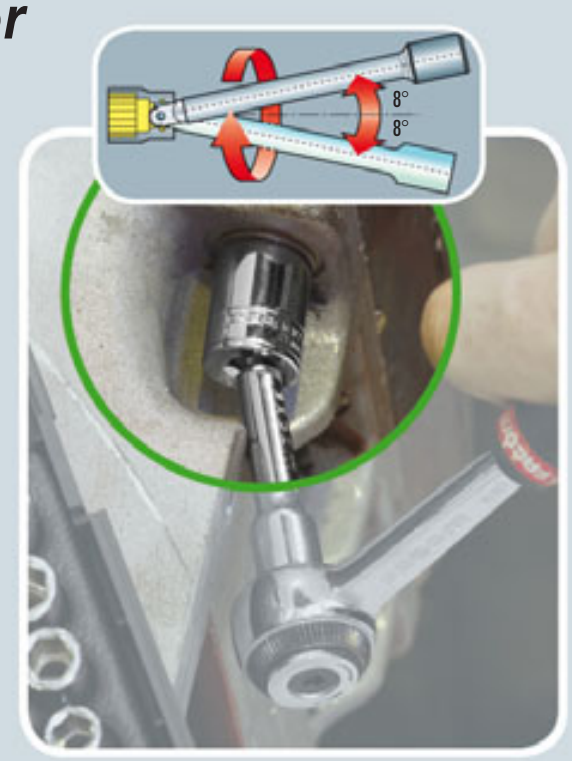
	⍁ "	D1 mm	B mm	D2 mm	L mm	⍙ g
S.210RC	1/2	23	16,5	23	130	250
S.215RC	1/2	23	16,5	23	250	450
S.217RC	1/2	23	16,5	23	500	860



Wobble extensions

Inaccessible with a socket or a universal joint ? Use a wobble extension !



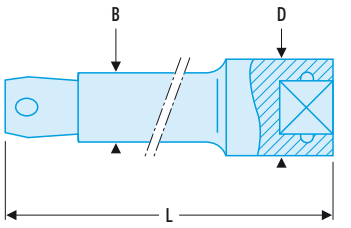


Standard ◪ 1/2" range

S 1/2" drive wobble extensions

- Square drive rounded profile gives 8° working angle.
- Useful where access is restricted.

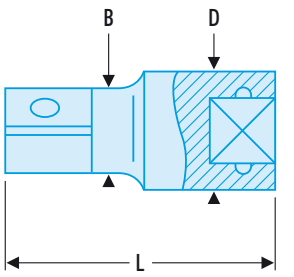
	◪ "	D mm	B mm	L mm	⚖ g
S.208S	1/2	23	16,5	75	130
S.210S	1/2	23	16,5	130	225
S.215S	1/2	23	16,5	250	420



S 1/2" drive extensions

▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
- Chrome finish.

	◪ "	D mm	B mm	L mm	⚖ g
S.206	1/2	23	16,5	52,5	90
S.208	1/2	23	16,5	75,0	130
S.210	1/2	23	16,5	130,0	225
S.215	1/2	23	16,5	250,0	420
S.217	1/2	23	16,5	500,0	840

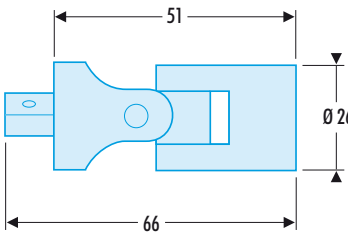


1/2" universal joint

S.240A

▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
- Spring-stiffened joint.
- Stays in position when reaching for fasteners.
- Significant time savings.

⚖ : 150 g.

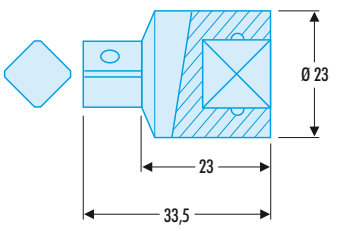


1/2" to 3/8" coupler

S.230

▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
- 1/2" female to 3/8" male square drive.
- For adapting sockets and accessories ◪ 3/8".
- Max. torque 212 N.m.

⚖ : 55 g.

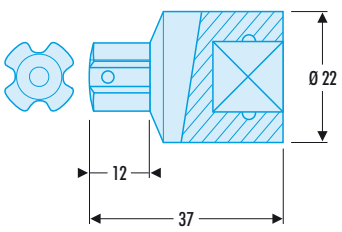


1/2" to CDX® coupler

S.231

- 1/2" female to CDX® male square drive.

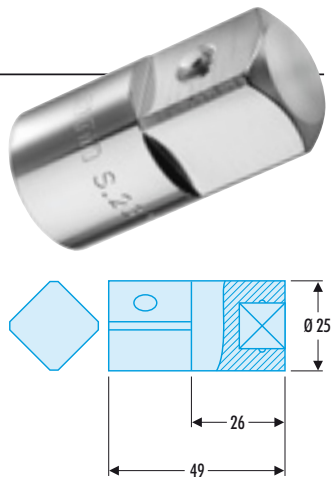
⚖ : 65 g.



1/2" to 3/4" coupler

S.232B

▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
• 1/2" female to 3/4" male square drive with plunger.
• For adapting sockets and accessories ◪ 3/4".
• Male square drive with plunger for positive locking of sockets and accessories.
⚖ : 135 g.



Set of 3 couplers

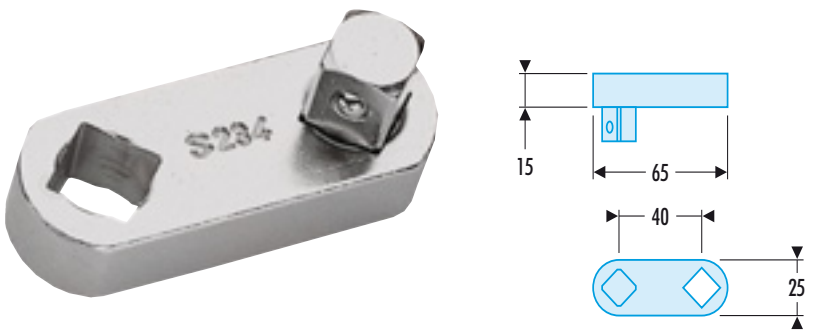
D.169

• Allows use of square drives smaller than socket drive sizes :
- 1/4" square drive + D.169RJ ▷ 3/8" socket.
- 3/8" square drive + D.169JS ▷ 1/2" socket.
- 1/2" square drive + D.169SK ▷ 3/4" socket.
• Compactness means that fewer tools are needed for in situ maintenance operations.
• Magnetic retainer and locking system (JS and SK).
• Knurl allows hand tightening where access is difficult.
⚖ : 96 g.

1/2" drive offset adaptor

S.234

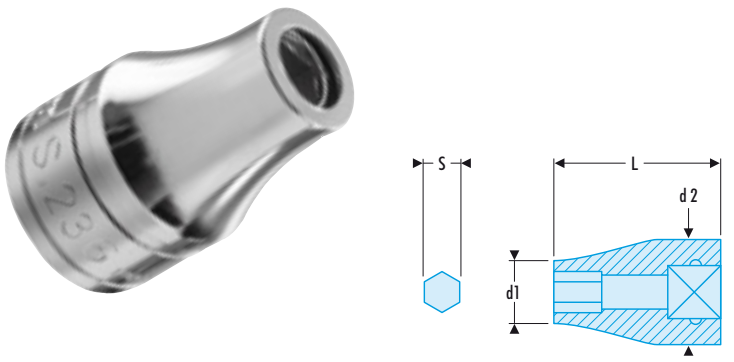
• 1/2" female to 1/2" male square drive.
• Offset centrelines for enhanced accessibility.
⚖ : 165 g.



1/2" drive spring-clip bit holders

▷ Performance : to ISO 1173, DIN 3126, NF ISO 1173.

	S "	◪ "	d1 mm	d2 mm	L mm	⚖ g
S.236	5/16	1/2	14	23	36	54
S.237	1/2	1/2	20,5	23	44	70



1/2" drive lock-ring bit holder

EF.S

	∅ "	◪	Length mm	⚖ g
EF.S	1/4	1/2	50	88

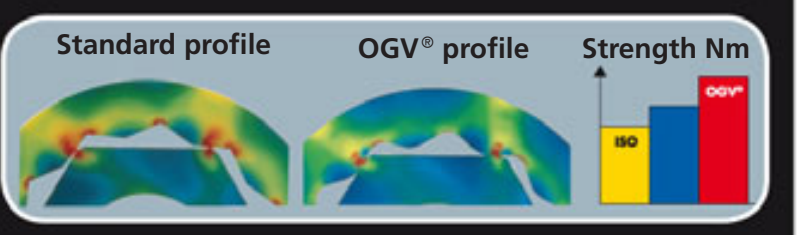
Special ⍁ 1/2" OGV® sockets

Facom OGV® profile

HIGHER TORQUE WITHOUT DAMAGING THE FASTENER !

The OGV® profile is achieved by a succession of curves instead of the flats found in conventional sockets®.

- ***More powerful tightening :***
  Larger contact area between socket and fastener minimises stress.
- ***Less wear :***
  Torque is transmitted through the fastener flats instead of the corners.
- ***Increased durability :***
  Stress concentration in the corners is eliminated.



Le TAG : pastilles pour douilles

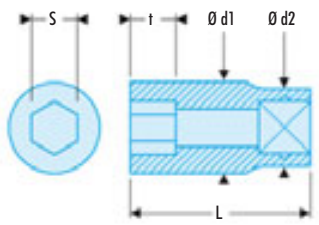
- Immediately identify your sockets.
- 6- or 12 point sockets.

⇉ TAG

S 1/2" drive metric 6 and 12-point OGV® sockets

▷ Performance : to ISO 2725-1, DIN 3124, NF ISO 2725-1.

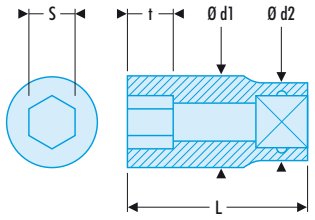
⇉ 6	⇉ 12	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	⍁ g
S.8H	S.8	8	13,1	22,8	6,5	36	48
S.9H	S.9	9	13,8	22,8	6,5	36	48
S.10H	S.10	10	15,3	22,8	7,8	36	48
S.11H	S.11	11	16,5	22,8	9,0	36	51
S.12H	S.12	12	17,8	22,8	9,5	36	52
S.13H	S.13	13	18,9	22,8	10,4	36	55
S.14H	S.14	14	20,2	22,8	10,5	36	57
S.15H	S.15	15	21,4	22,8	12,0	36	60
S.16H	S.16	16	22,6	21,6	12,0	36	57
S.17H	S.17	17	24,1	23,1	13,0	36	61
S.18H	S.18	18	25,5	23,4	13,0	36	68
S.19H	S.19	19	26,6	24,6	14,0	36	69
S.20H	S.20	20	27,4	25,4	14,0	36	71
S.21H	S.21	21	29,1	25,1	16,0	38	93
S.22H	S.22	22	30,4	26,4	16,5	38	101
S.23H	S.23	23	31,6	27,6	16,5	38	122
S.24H	S.24	24	32,7	28,7	16,5	38	130
S.25H	S.25	25	34,1	27,7	16,5	38	139
S.26H	S.26	26	35,4	29	16,5	38	149
S.27H	S.27	27	36,6	29,2	19,0	44	164
S.28H	S.28	28	37,9	30,5	20,0	44	175
S.29H	S.29	29	38,7	31,3	20,0	44	179
S.30H	S.30	30	40,4	33	20,0	44	201
S.31H	S.31	31	41,6	34,2	20,0	44	205
S.32H	S.32	32	42,6	35,1	20,0	44	215
S.34H	S.34	34	44,9	37,5	20,0	44	240



S 1/2" drive inch 6 and 12-point OGV® sockets

▷ Performance : to GGG.W.641E, ANSI B 107.1.

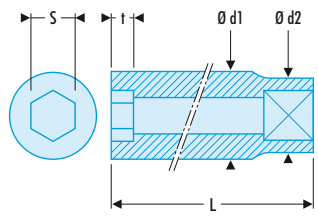
6	12	S "	Ø d1 mm	Ø d2 mm	t mm	L mm	g
S.3/8H	S.3/8	3/8	14,7	22,8	7,8	36	48
S.7/16H	S.7/16	7/16	16,5	22,8	9,0	36	51
S.1/2H	S.1/2	1/2	18,9	22,8	10,4	36	55
S.9/16H	S.9/16	9/16	20,2	22,8	10,5	36	58
S.19/32H	S.19/32	19/32	21,4	22,8	12,0	36	60
S.5/8H	S.5/8	5/8	22,6	21,6	12,0	36	65
S.21/32H	S.21/32	21/32	24,1	23,1	13,0	36	65
S.11/16H	S.11/16	11/16	24,6	22,6	13,0	36	71
S.3/4H	S.3/4	3/4	27	25	14,0	36	68
S.25/32H	S.25/32	25/32	27,9	25,9	14,0	36	72
S.13/16H	S.13/16	13/16	28,6	24,6	16,0	38	96
S.7/8H	S.7/8	7/8	30,4	26,4	16,5	38	99
S.15/16H	S.15/16	15/16	32,7	28,7	16,5	38	132
S.31/32H	S.31/32	31/32	34,1	27,7	16,5	38	142
S.1'H	S.1'	1	34,7	28,3	16,5	38	152
S.1'1/16H	S.1'1/16	1 1/16	36,6	29,2	19,0	44	164
S.1'1/8H	S1'1/8	1 1/8	38,7	31,3	20,0	44	182
S.1'3/16H	S.1'3/16	1 3/16	40,4	33	20,0	44	201
S.1'1/4H	S.1'1/4	1 1/4	42,5	35,1	20,0	44	229



S.LA 1/2" drive long-reach metric 6 and 12-point OGV® sockets

▷ Performance : to ISO 2725-1, DIN 3124, NF ISO 2725-1.

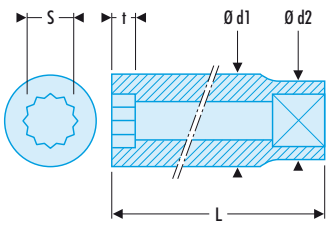
6	12	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
S.12HLA	S.12LA	12	17,8	21	12	77	105
S.13HLA	S.13LA	13	19,0	21,8	12	77	115
S.14HLA	S.14LA	14	20,3	21,8	15	77	120
S.15HLA	S.15LA	15	21,5	21,8	15	77	125
S.16HLA	S.16LA	16	22,8	22,0	15	77	128
S.17HLA	S.17LA	17	24	23,0	15	77	140
S.18HLA	S.18LA	18	25	24,0	18	77	160
S.19HLA	S.19LA	19	26,5	25,0	18	77	160
S.21HLA	S.21LA	21	29,0	27,0	18	77	200
S.22HLA	S.22LA	22	30,0	28,0	21	77	215
S.23HLA	S.23LA	23	31,5	29,0	21	77	232
S.24HLA	S.24LA	24	32,8	30,0	24	77	255
S.26HLA	S.26LA	26	35,0	32,0	24	77	280
S.27HLA	S.27LA	27	36,5	33,0	27	77	310
S.28HLA	S.28LA	28	37,8	34,0	27	77	330
S.29HLA	S.29LA	29	39,0	35,0	27	77	355
S.30HLA	S.30LA	30	40,0	36,0	30	77	355
S.32HLA	S.32LA	32	42,8	38,0	33	77	408



S.LA 1/2" long-reach inch 12-point OGV® sockets

▷ Performance : to GGG. W.641E, ANSI B 107.1, ASME B 107.1.

12	S "	Ø d1 mm	Ø d2 mm	t mm	L mm	g
S.1/2LA	1/2	19,0	22,3	8,1	82,2	135
S.9/16LA	9/16	20,6	22,3	9,6	82,2	138
S.5/8LA	5/8	22,3	22,3	10,9	82,2	150
S.11/16LA	11/16	24,4	24,4	10,9	82,2	160
S.3/4LA	3/4	26,9	26,9	12,4	82,2	165
S.13/16LA	13/16	28,7	28,7	12,9	82,2	175
S.7/8LA	7/8	30,2	30,2	14,0	82,2	200
S.15/16LA	15/16	31,7	31,7	15,0	82,2	225
S.1'LA	1	33,3	33,3	15,2	82,2	255
S.1'1/16LA	1 1/16	36,5	36,5	16,0	82,2	320
S.1'1/8LA	1 1/8	38,1	38,1	16,7	82,2	350
S.1'1/4LA	1 1/4	42,9	42,9	16,7	82,2	430



Standard ◻ 1/2" range

Rack sets of 1/2" drive metric and inch sockets

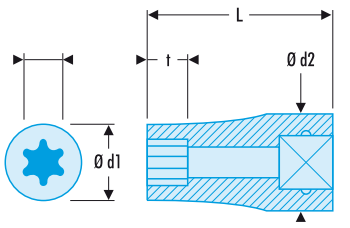
	⦶ dimensions mm - "	Rack	⚖ g
S.40E	8-9-10-11-12-13-14-15-16	CKS.95	570
S.41E	17-18-19-20-21-22-23-24	CKS.95	690
S.40U	3/8-7/16-1/2-9/16-19/32-5/8-21/32	CKS.97	465
S.41U	11/16-3/4-13/16-7/8-15/16-1"	CKS.95	650

Torx® sockets ◻ 1/2"

STX Torx® 1/2" sockets

- Drive ◻ 1/2".
- For Torx® fasteners.
- Manual use.
- Chrome finish.

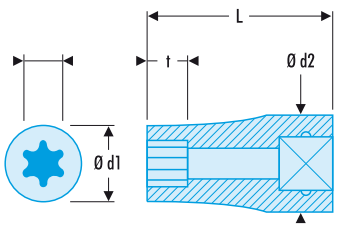
	Torx® no.	I✱ A mm	Ø d1 mm	Ø d2 mm	t mm	L mm	⚖ g
STX.12	E12	10,95	15,0	21	8,0	37	47
STX.14	E14	12,67	16,3	21	8,8	37	47
STX.16	E16	14,70	18,8	22	9,6	37	57
STX.18	E18	16,38	20,4	22	11,1	37	57
STX.20	E20	18,16	22,9	22	12,7	37	63
STX.24	E24	21,84	26,5	22	16,1	37	97



GSX Torx® 1/2" machine sockets

- Drive ◻ 1/2".
- For Torx® fasteners.
- Machine use

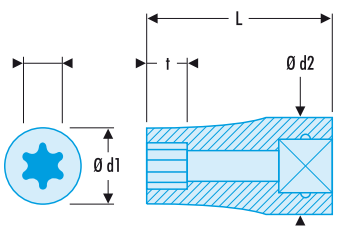
	Torx® no.	I✱ A mm	Ø d1 mm	Ø d2 mm	t mm	L mm	⚖ g
GSX.10	E10	9,19	13,0	25	6,35	38	61
GSX.12	E12	10,95	14,4	25	7,90	38	62
GSX.14	E14	12,67	17,0	25	8,70	38	66
GSX.16	E16	14,70	20,0	25	9,50	38	74
GSX.18	E18	16,38	21,5	25	11,10	38	75
GSX.20	E20	18,16	25,0	30	12,70	38	119
GSX.24	E24	21,84	30,0	30	15,90	38	136



Torx® 1/2" socket sets

- Sockets supplied on a rack.

		Dimensions Torx®	◻ "	Rack	⚖ g
STX.40	5	E12 - E14 - E16 - E18 - E20	1/2	CKS.90	320
RSX.J6	6	E6 - E8 - E10 - E12 - E14 - E16	1/2-1/4	CKS.98	205

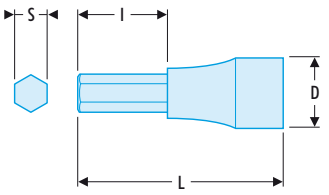


Bit sockets ⍁ 1/2"

STM 1/2" drive metric hexagon bit sockets

- For hexagon socket heads.
- Non-removable bits.

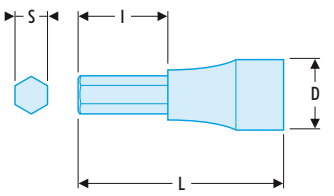
	S mm	D mm	I mm	L mm	g
STM.4	4,00	22,8	24	60	59
STM.5	5,00	22,8	24	60	60
STM.6	6,00	22,8	24	60	62
STM.7	7,00	22,8	24	60	64
STM.8	8,00	22,8	24	60	65
STM.10	10,00	22,8	24	60	80
STM.12	12,00	23,1	24	60	102
STM.14	14,00	23,1	24	60	127
STM.17	17,00	23,4	24	60	152
STM.19	19,00	23,4	24	60	162



STM 1/2" drive inch hexagon bit sockets

- For hexagon socket heads.
- Removable bits.

	S "	S mm	Components		D mm	I mm	L mm	g
ST.1/4	1/4	6,35	S.236	EH.201/4	23	17	54	67
ST.5/16	5/16	7,94	S.236	EH.205/16	23	17	54	67
ST.3/8	3/8	9,52	S.236	EH.203/8	23	17	54	74
ST.7/16	7/16	11,11	S.237	ENH.307/16	23	31	70	110
ST.1/2	1/2	12,70	S.237	ENH.301/2	23	31	70	117
ST.9/16	9/16	14,29	S.237	ENH.309/16	23	31	70	125
ST.5/8	5/8	15,88	S.237	ENH.305/8	23	31	70	143
ST.3/4	3/4	19,05	S.237	ENH.303/4	23	31	70	165



Set of 1/2" drive metric hexagon bit sockets

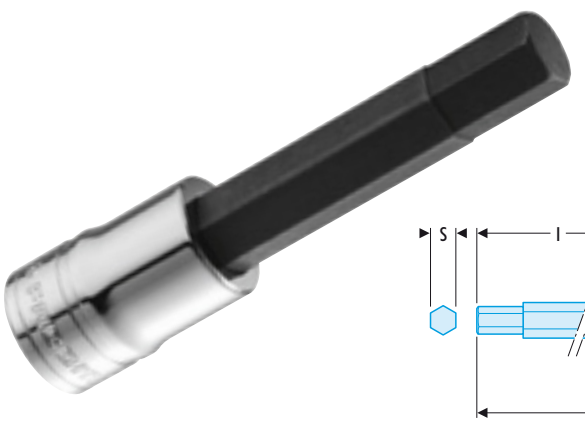
STM.J9

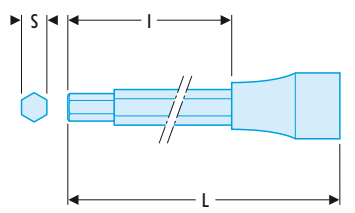
- Comprising : STM.5, STM.6, STM.7, STM.8, STM.10, STM.12, STM.14, STM.17, STM.19.
- Plastic case BP.102 : 204 x 122 x 52 mm.
- Tray PL.458.

SHP 1/2" drive long-reach metric hexagon bit sockets

- Long-reach series.
- Non-removable bits.
- Square drive⍁ 1/2".

	S mm	I mm	L mm	g
SHP.6LA	6	64	100	77
SHP.7LA	7	64	100	78
SHP.8LA	8	64	100	79
SHP.10LA	10	104	140	132
SHP.12LA	12	64	100	144
SHP.5ELA	5	144	180	112
SHP.6EL1A	6	104	140	93
SHP.6EL2A	6	184	220	127

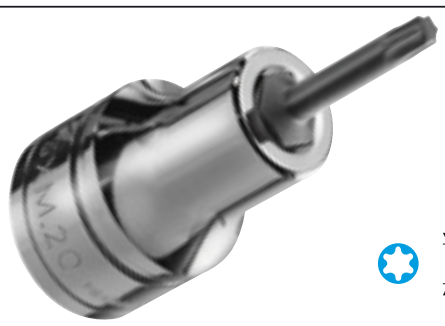


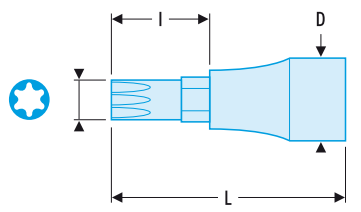


SXM 1/2" drive Torx® bit sockets

- Non-removable bits.

	Torx® no.	A mm	D mm	I mm	L mm	g
SXM.20	T20	3,84	22,8	24	60	58
SXM.25	T25	4,40	22,8	24	60	58
SXM.27	T27	4,96	22,8	24	60	59
SXM.30	T30	5,49	22,8	24	60	59
SXM.40	T40	6,60	22,8	24	60	62
SXM.45	T45	7,77	22,8	24	60	63
SXM.50	T50	8,79	22,8	24	60	74
SXM.55	T55	11,17	22,8	24	60	96
SXM.60	T60	13,17	23,1	24	60	117



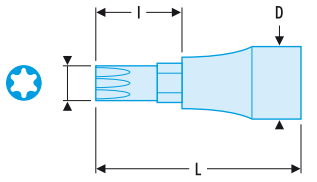


Standard ◪ 1/2" range

SX.LA 1/2" drive long-reach Torx® bit sockets

• Non-removable bits.

⊃	Torx® no.	I✱ A mm	D mm	I mm	L mm	⚖ g
SX.40LA	T40	6,60	22,8	84	120	95
SX.45LA	T45	7,77	22,8	84	120	95
SX.55LA	T55	11,17	22,8	104	140	220
SX.70LA	T70	15,49	23,1	104	140	280



Set of 1/2" drive Torx® bit sockets

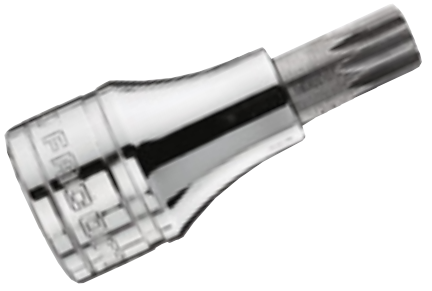
AMEX.3

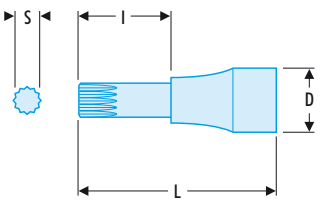
• Comprising : SXM.20, SXM.25, SXM.27, SXM.30, SXM.40, SXM.45, SXM.50, SXM.55, SXM.60.
• Plastic case BP.102 : 204 x 122 x 52 mm.
• Tray PL.455.
⚖ : 865 g.

SV.B 1/2" drive XZN® spline bit sockets

• Non-removable bits.

⊃	Ø Screw	D mm	I mm	L mm	⚖ g
SV.6B	M6	22,8	24	60	60
SV.8B	M8	22,8	24	60	60
SV.10B	M10	22,8	24	60	70
SV.12B	M12	22,8	24	60	80
SV.14B	M14	22,8	24	60	100
SV.16B	M16	23,1	24	60	110

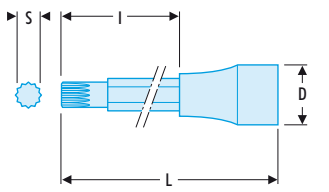




SV.LB 1/2" drive long-reach XZN® spline bit sockets

• Non-removable bits.

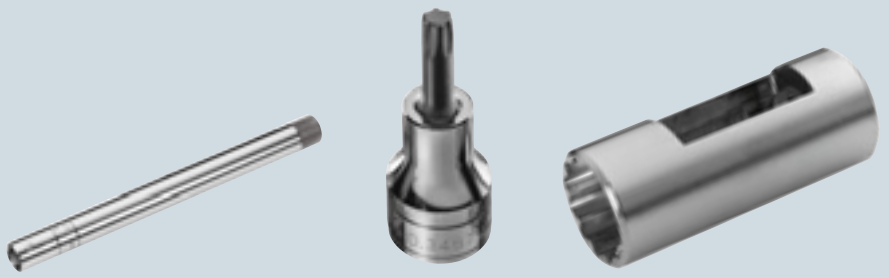
⊃	Ø Screw	D mm	I mm	L mm	⚖ g
SV.6LB	M6	22,8	64	100	80
SV.8LB	M8	22,8	64	100	80
SV.10LB	M10	22,8	64	100	90
SV.10ELB	M10	22,8	120	120	110
SV.12LB	M12	22,8	64	100	120
SV.12ELB	M12	22,8	104	140	150
SV.14LB	M14	22,8	64	100	150



Special ◪ 1/2" sockets for automotive applications

For details of our 1/2" special automotive sockets, see section 18.

• Spark plug sockets
• Cylinder head sockets
• Injector sockets



Rack sets of 1/2" drive bit sockets

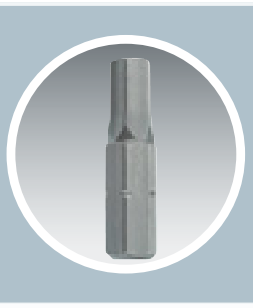
ST : for hexagon socket heads.
SX : for Torx® heads.
SV : for XZN® spline heads.

⊃	Sizes	Rack	⚖ g
ST.40	STM 6 - 8 - 10 - 12 - 14 - 17 - 19	CKS.97	830
ST.41	SHPLA 6 - 7 - 8 - 10 - 12	CKS.90	610
SX.41	SXM 20 - 25 - 27 - 30 - 40 - 45 - 50 - 55	CKS.95	640
SV.40A	SVA 6-8-10-12	CKS.90	340
SV.41A	SVLB 8-10-12	CKS.90	440

Create your own bit sockets

?

Bits



Series 2 ⎔ 5/16"
Series 3 ⎔ 1/2"

See section 7 p. 351

Bit holders ◪ 1/2"

⇉ S.236

⎔ 5/16" 7,94 mm

⇉S.237

⎔ 1/2" 12,70 mm

p. 360

Set of 1/2" drive XZN® spline bit sockets

SV.J8A

- Non-removable bits for high torques
- Comprising :

Short-reach bits SV.6B, SV.8B, SV.10B, SV.12B.
Long-reach bits SV.6LB, SV.8LB, SV.10LB, SV.12LB.

- Tray PL.247 : 220 x 136 x 28 mm.

⚖ : 805 g.

Set of 1/2" drive long reach XZN® spline bit sockets

SV.LJ6A

- Long-reach non-removable bits for high torques.
- Comprising :

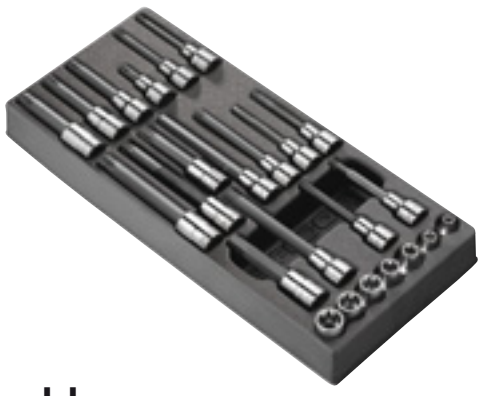
Long-reach bits SV.6LB, SV.8LB, SV.10LB, SV.12LB.
Extra-long-reach bits SV.10ELB, SV.12ELA.

- Tray PL.258 : 170 x 170 x 34 mm.

⚖ : 800 g.

Cylinder head tightening and loosening tool module

MOD.CH

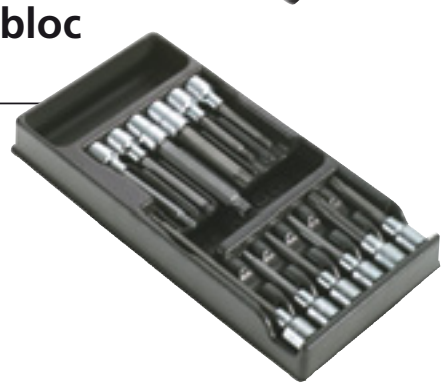


- Comprising :

- D.34B7L, D.34B9L, D.34B10L, D.34B12L, D.34B14L, D.34B16L.
- SV.6LB, SV.8LB, SV.14LB.
- SV.10ELB, SV.12ELB.
- JTX.8, JTX.10.
- STX.12, STX.14, STX.16, STX.18, STX.20.
- SX.55LA, SX.70LA.
- SHP.6LA, SHP.8LA, SHP.10LA, SHP.12LA.

12-piece set of 1/2" square drive sockets with long-reach monobloc TORX®, XZN® and hexagon bits

MOD.SHPPB



- Ideal for light vehicle cylinder heads.
- Tray PL.336.
- Dimensions : 420 x 180 x 55 mm.

⇉	○	○	○	⚖ kg
MOD.SHP	40 - 45 - 55 - 70	5 - 6 - 7 - 8	6 - 8 - 10 - 12	1,740

Truck ◪ 3/4" range

Socket sets ◪ 3/4"

◪ 3/4" Metric socket sets

FACOM HELPS YOU WITH YOUR HEAVY MAINTENANCE TASKS

K.411 6

K.441A 6
K.442E 12

K.437E 6 *K.436E* 12

SK.453N 6
SK.452N 12

		K.411	K.441A	K.442E	K.437E	K.436E	SK.453N		SK.452N	
12 6 ◪ 3/4". 19,05mm		K.152 6 K.HB	K.151B 6 K.HB	K.151B 12 K.B	K.151B 6 K.HB	K.151B 12 K.B	K.151B + S.151 6 K.HB	6 S.H	K.151B + S.151 12 K.B	12 S.
	8							•		•
	9							•		•
	10							•		•
	11							•		•
	12							•		•
	13							•		•
	14							•		•
	15							•		•
	16							•		•
	17							•		•
	18							•		•
	19	•	•	•	•	•		•		•
	21	•	•	•	•	•	◪ .3/4"	•	◪ .3/4"	•
	22	•	•	•	•	•	•	•	•	•
	23		•	•	•	•		•		•
	24	•	•	•	•	•	•	•	•	•
	26							•		•
	27	•	•	•	•	•	•	•	•	•
	28							•		•
	29							•		•
	30	•	•	•	•	•	•	•	•	•
	32	•	•	•	•	•	•	•	•	•
	34	•	•	•	•	•	•	◪ .1/2"	•	◪ .1/2"
	36	•	•	•	•	•	•		•	
	38		•	•						
	41	•	•	•	•	•	•		•	
	42									
	46	•	•	•	•	•	•		•	
	50	•	•	•	•	•	•		•	
	54									
	55	•	•	•	•	•				
	K.210B	•	•	•	•	•	•		•	
	K.215B	•	•	•	•	•	•		•	
	K.120B	•	•	•	•	•	•		•	
	K.240A		•	•						
	K.140A		•	•						
	K.125A		•	•						
	S.210							•		•
	S.215							•		•
	S.120A							•		•
	S.240A							•		•
	S.110							•		•
		PL.438 BT.103G 643 x 230 x 111 mm 15,20 kg	C.K422CA + 2 x C.K422EA BT.6A 468 x 190 x 160 mm 17,00 kg	17,00 kg	PL.87A BT.103G 643 x 230 x 111 mm 15,50 kg	15,50 kg	P.21 BT.6A 468 x 190 x 160 mm 17,20 kg		17,20 kg	

◪ 3/4" Metric socket sets

FARMING EQUIPMENT MAINTENANCE

INDUSTRIAL MAINTENANCE

HGV MAINTENANCE

K.421N 6
K.420N 12

K.433E 6
K.432E 12

	K.421N	K.420N	K.433E	K.432E	MOD.K2	MOD.K1
	K.151B	K.151B	K.151B	K.151B	K.152	K.151B
12 6	6	12	6	12	6	6
◪ 3/4".19.05mm	K.HB	K.B	K.HB	K.B	K.HB	K.HB
22	●	●				
23						
24	●	●				
27	●	●				
30	●	●	●	●		
32	●	●	●	●		
33			●	●		
34	●	●	●	●	●	●
36	●	●	●	●	●	●
38			●	●		
41	●	●	●	●	●	●
42			●	●		
46	●	●	●	●	●	●
50	●	●	●	●	●	●
54			●	●		
55			●	●	●	●
K.210B	●	●	●	●	●	●
K.215B	●	●	●	●		
K.120B	●	●	●	●		●
K.240A					●	
K.140A						
K.125A						
K.230B						●
	PL.42		PL.40		PL.662	PL.324
	BT.103G		BT.103G		-	-
	643 x 230 x 111 mm		643 x 230 x 111 mm		420 x 190 x 65 mm	420 x 355 x 65 mm
	12,90 kg	12,90 kg	16,30 kg	16,30 kg	7,46 kg	8,29 kg

MOD.K2 6

MOD.K1 6

Truck ◪ 3/4" range

◪ 3/4" Inch and long-reach metric socket sets

K.442U 12

SK.452U 12

K.415E 6

K.405E 6

		K.442U	SK.452U		K.415E	K.405E
		K.151B	K.151B + S.151		K.151B	-
		12	12	12	6	6
◪ 3/4". 19,05mm		K.B	K.B	S.	K.LA	K.LA
	22				●	●
	23				●	●
	24				●	●
	26				●	●
	27				●	●
	29				●	●
	30				●	●
	32				●	●
	34				●	●
	36				●	●
	38				●	●
	41				●	●
	42				●	●
	3/8			●		
	7/16			●		
	1/2			●		
	9/16			●		
	19/32			●		
	5/8			●		
	21/32			●		
	11/16			●		
	3/4			●		
	25/32			●		
	13/16			●		
	3/4	●				
	7/8	●		●		
	15/16	●		●		
	31/32			●		
	1	●	◪ .3/4"	●		
	1"1/16	●	●	●		
	1"1/8	●	●	●		
	1"1/4	●	●	●		
	1"5/16	●		◪ .1/2"		
	1"3/8	●	●			
	1"7/16	●	●			
	1"1/2	●	●			
	1"5/8	●	●			
	1"11/16	●				
	1"3/4	●				
	1"13/16	●	●			
	1"7/8	●				
	2"	●	●			
	2"1/8	●				
	2"3/16	●				
	2"1/4	●				
	K.210B	●	●		●	
	K.215B	●	●		●	
	K.120B	●	●		●	
	K.240A	●				
	K.140A	●				
	K.125A	●				
	S.210			●		
	S.215			●		
	S.120A			●		
	S.240A			●		
	S.110			●		
	-		PL.22		PL.43	PL.60A
	BT.6A		BT.6A		BT.103G	BT.111
	468 x 190 x 160 mm		468 x 190 x 160 mm		643 x 230 x 111 mm	396 x 224 x 82 mm
	22,1 kg		16,2 kg		16,27 kg	9,30 kg

K.152 Compact and precise ratchet ⍁ 3/4"

25 % MORE COMPACT FOR CONFINED SPACES !

ERGONOMIC

- *Ergonomic handle providing 2-handed grip for high torques.*

PERFORMANCE

- *Precise : 72 tooth mechanism, 5° increments.*
- *Powerful and strong : 17 teeth in mesh during torquing.*
- *Monobloc ratchet : lighter and more manoeuvrable.*
- *Confined spaces : head 25 % more compact than traditional ratchets.*

SAFETY FIRST

- Plunger lock ratchet/sockets/ accessories.

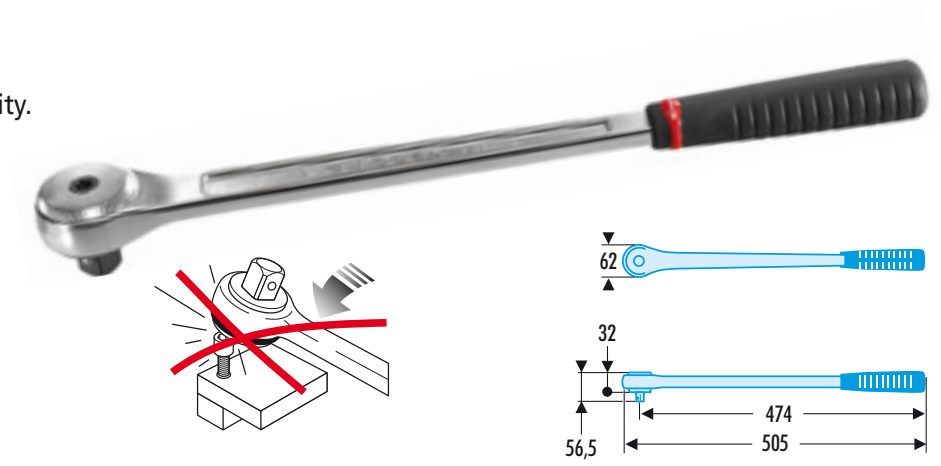
Compact 3/4" drive ratchet

K.152

▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.

- Very lightweight monobloc ratchet for increased manoeuvrability.
- Compact head.
- Ergonomic handle providing 2-handed grip.
- 5° increments (only 1/72 of a turn).
- High-power from 17 teeth in mesh when torque is applied.
- Plunger safety lock.
- Chrome finish.

⍁⍁ : 1.67 kg.



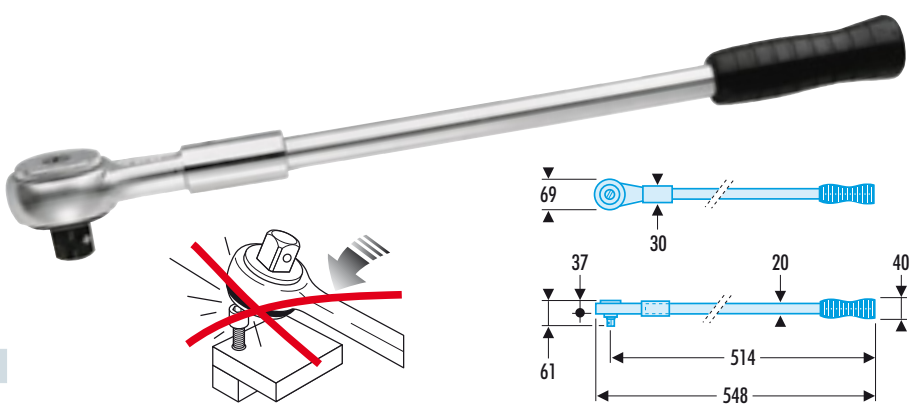
3/4" drive ratchet with removable handle

K.154B

▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.

- 5° increments (only 1/72 of a turn).
- High-power from 17 teeth in mesh when torque is applied.
- Plunger safety lock.
- Chrome finish.

⍁⍁ : 2.4 kg.



	Description
K.154AM	Handle for K.154B

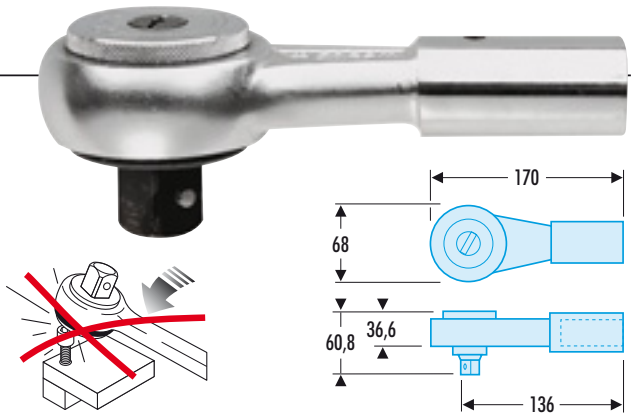
Truck ◪ 3/4" range

3/4" drive ratchet without handle

K.151B

▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
- 5° increments (only 1/72 of a turn).
- High-power from 17 teeth in mesh when torque is applied.
- For use with bars K.125 or K.126 and handle K.154AM.
- Plunger safety lock.
- Chrome finish.

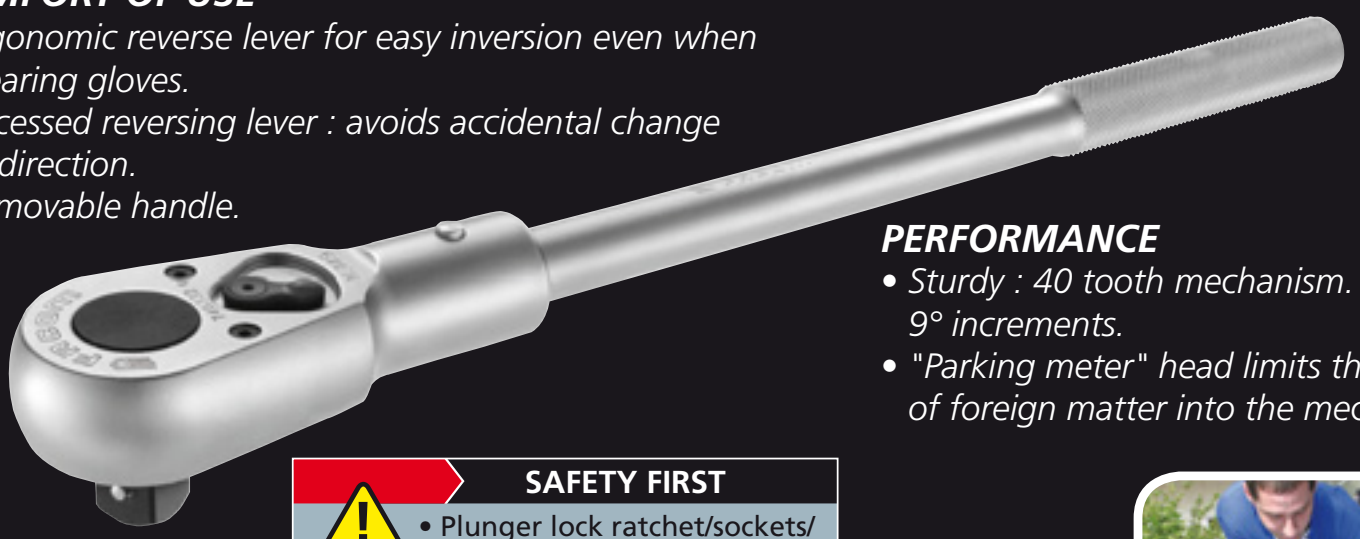
⚖ : 1.2 kg.



K.149 Ratchet ◪ 3/4" for heavy maintenance

A HEAVY-DUTY RATCHET SUITABLE FOR ANY JOB AND ANY SITUATION !

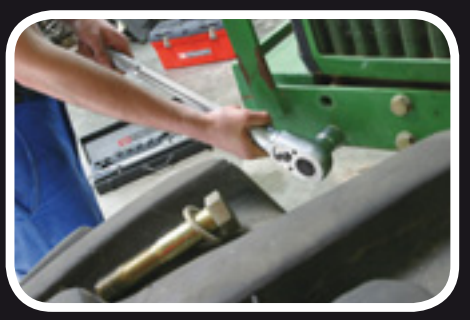
COMFORT OF USE
- *Ergonomic reverse lever for easy inversion even when wearing gloves.*
- *Recessed reversing lever : avoids accidental change of direction.*
- *Removable handle.*



PERFORMANCE
- *Sturdy : 40 tooth mechanism. 9° increments.*
- *"Parking meter" head limits the entry of foreign matter into the mechanism.*

SAFETY FIRST
- Plunger lock ratchet/sockets/ accessories.

Heavy industry



Farming machinery

Heavy goods vehicles

New

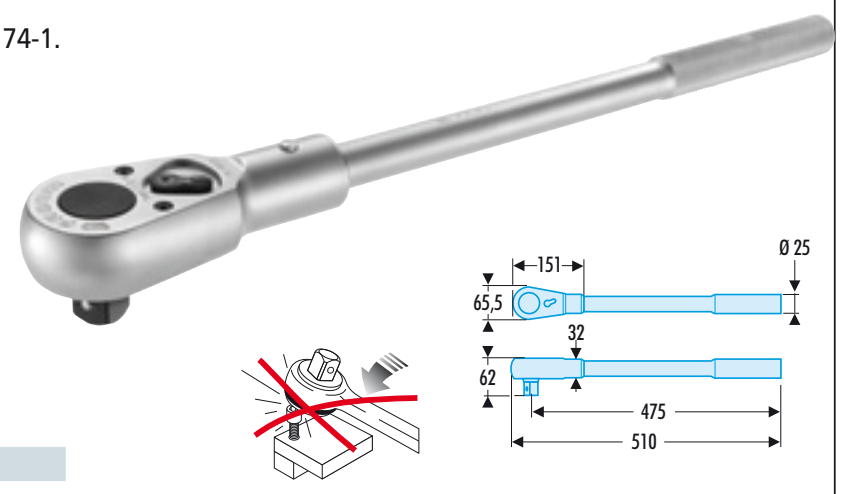
3/4" drive "Site" ratchet

K.149

▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315, NF ISO 1174-1.
- Suitable for outdoor working.
- Sturdy mechanism protected against dirt.
- Recessed reversing switch :
- 9° increments.
- Removable handle.
- Length 510 mm.
- 40 tooth mechanism.
- Plunger safety lock.
- Matt chrome finish.

⚖ : 2.85 kg.

	Description
K.149RN	Repair kit
K.149M	Handle for ratchet K.149



Maintenance of 3/4" drive ratchets

- Ratchet maintenance is straightforward :
  For continued serviceability, simply clean and replace worn parts periodically.

	K.150	K.150A	K.151	K.151A	K.151B	K.152	K.154A	K.154B	K.149
Knurl caps									
K.152C						●			
M.151C			●						
K.151BC				●	●		●	●	
Spare parts kit									
K.151RN			●	●	●		●	●	
S.152RN						●			
K.150RN	●	●							
Square drives									
K.152R						●			
K.150R	●								
K.150AR		●							
K.151AR				●	●		●	●	
Repair kit									
K.149RN									●

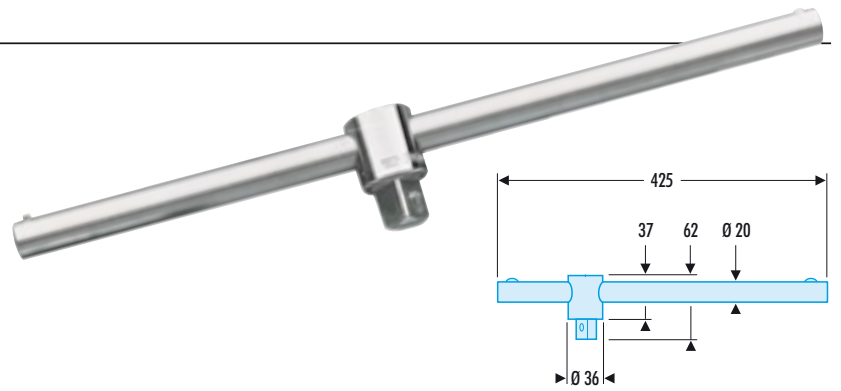
Accessories ◪ 3/4"

3/4" drive sliding tee

K.120B

▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
- Ball-steadied head.
- T or L-handle.
- Chrome finish.

⚖ : 1.3 kg.



3/4" drive angle bar

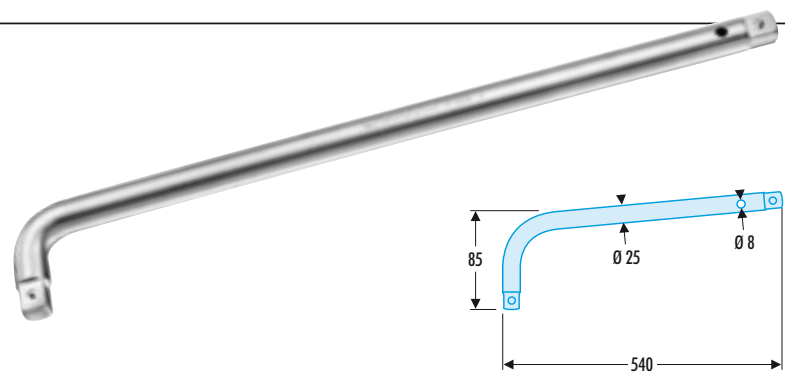
K.130A

- Takes 3/4" socket on either end :

- Short end for high torques
- Long end for pre-tightening or in recesses.

- Chrome finish.

⚖ : 2.3 kg.

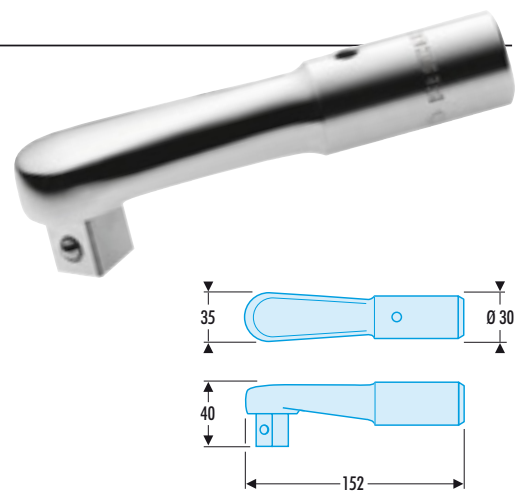


3/4" drive fixed adaptor

K.200E

▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
- For use with bars K.125 and K.126.
- Chrome finish.

⚖ : 630 g.



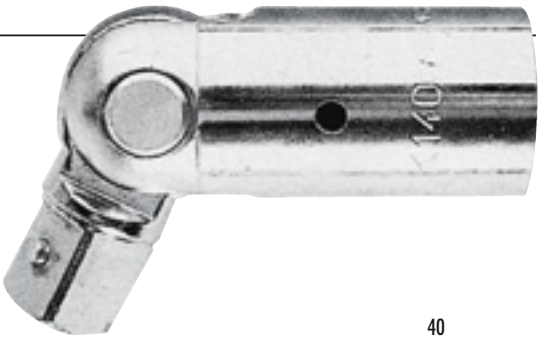
Truck ⍁ 3/4" range

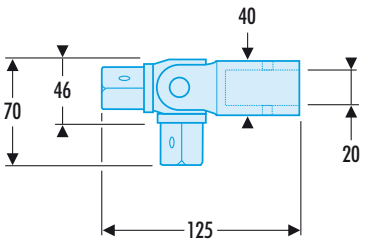
3/4" drive hinged adaptor

K.140A

▷ Performance : to ISO 3315, NF ISO 3315.
- For use with bars K.125 and K.126.
- Fastener rotation from any angle.
- Spring-steadied in any position.
- Chrome finish.

⍁ : 760 g.

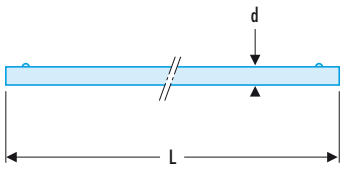




K 3/4" drive bars

- Extended handles for ratchet K.151A and adaptors K.140A and K.200E.

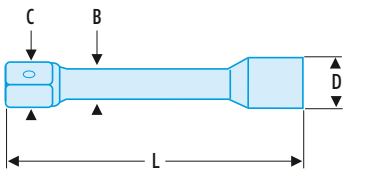
	d mm	L mm	⍁ kg
K.125A	20	425	1,04
K.126A	20	500	1,22



K.B 3/4" drive extensions

▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
- Chrome finish.

	B mm	C mm	D mm	L mm	⍁ g
K.208B	25	25	36	100	410
K.210B	20	25	36	200	620
K.215B	20	25	36	400	1130

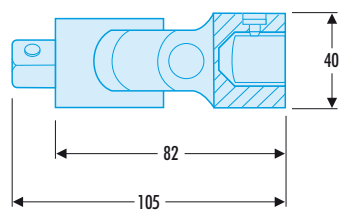


3/4" universal joint

K.240A

▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
- Spring-stiffened joints.
- Stays in position when reaching for fasteners.
- Significant time savings.
- Chrome finish.

⍁ : 550 g.

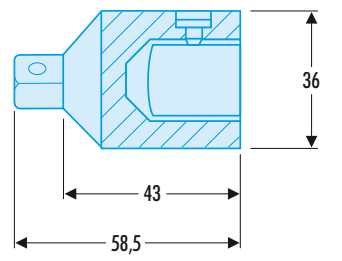


3/4" to 1/2" coupler

K.230B

▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
- For adapting sockets and accessories ⍂ 1/2".
- Interchangeable 1/2" male square ref. K.230B1.
- Max. torque 512 N.m.
- Chrome finish, phosphate square.

⍁ : 250 g.



Interchangeable 1/2" male drive

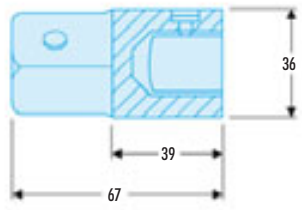
K.230B1

• Interchangeable 1/2" male drive for ☑ 3/4" to ☑ 1/2" coupler reference K.230B

3/4" to 1" coupler

K.232A

▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
• For adapting sockets and accessories ☑ 1".
• Chrome finish.
⚖ : 340 g.



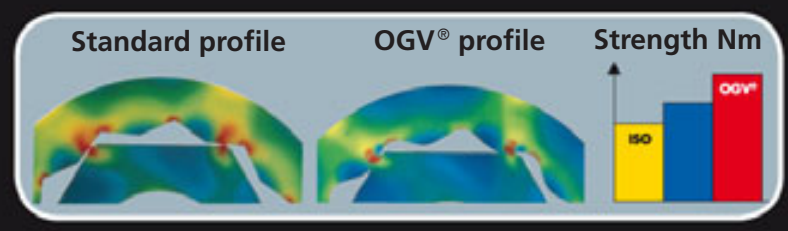
Sockets ☑ 3/4" OGV®

Facom OGV® profile

HIGHER TORQUE WITHOUT DAMAGING THE FASTENER !

The OGV® profile is achieved by a succession of curves instead of the flats found in conventional sockets®.

- ***More powerful tightening :***
  Larger contact area between socket and fastener minimises stress.
- ***Less wear :***
  Torque is transmitted through the fastener flats instead of the corners.
- ***Increased durability :***
  Stress concentration in the corners is eliminated.



TAG socket inserts

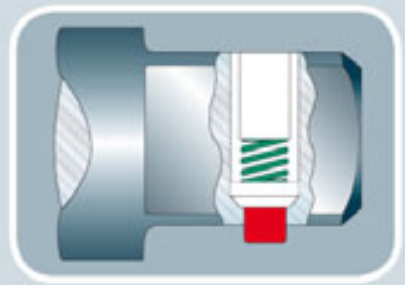
- Immediately identify your sockets.
- 6- or 12 point sockets.

⇉ TAG

☑ 3/4" - 1" Locking sockets and accessories

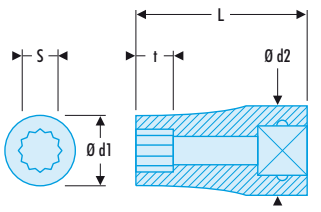
SAFETY AND COMFORT

- Lock system prevents accidental socket loss during use.
- Quick release simply by pressing the plunger.
- Compatible with standard ball-lock tools.



Truck 3/4" range

K.B 3/4" drive metric 6 and 12-point OGV® sockets

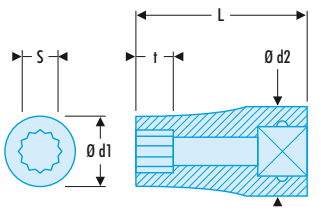


▷ Performance : to ISO 2725-1, DIN 3124, NF ISO 2725-1.
- OGV® profile.
- Secure attachment of plunger lock accessories.
- Quick release button.
- Chrome finish.

6	12	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
K.19HB	K.19B	19	29,9	36	14	49	207
K.21HB	K.21B	21	31,9	36	14	49	208
K.22HB	K.22B	22	33,4	36	14	51	221
K.23HB	K.23B	23	35,7	36	14	52,5	244
K.24HB	K.24B	24	35,7	36	16	52,5	237
K.26HB	K.26B	26	38,7	36	16	52,5	231
K.27HB	K.27B	27	39,5	36	18	52,5	232
K.28HB	K.28B	28	40,8	36	18	52,5	239
K.29HB	K.29B	29	42	36	18	52,5	245
K.30HB	K.30B	30	43,2	36	20	59	282
K.32HB	K.32B	32	45,7	36	22	59	301
K.33HB	K.33B	33	47,9	36	22	59	330

6	12	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
K.34HB	K.34B	34	48,2	36	24	59	322
K.35HB	K.35B	35	49,9	36	24	59	344
K.36HB	K.36B	36	50,7	36	24	59	347
K.38HB	K.38B	38	54	40	27	66,9	478
K.40HB	K.40B	40	55,9	40	27	66,9	493
K.41HB	K.41B	41	57	40	27	66,9	504
K.42HB	K.42B	42	59,4	40	27	66,9	552
K.44HB	K.44B	44	61,9	40	28	66,9	587
K.46HB	K.46B	46	63,2	40	30	75	641
K.50HB	K.50B	50	68,2	40	33	75	725
K.54HB	K.54B	54	73,9	45	36	75	880
K.55HB	K.55B	55	74,5	45	36	75	875

K.B 3/4" drive inch 12-point OGV® sockets



▷ Performance : to GGG.W.641E, ANSI B 107.1, ASME B 107.1.
- OGV® profile.
- Secure attachment of plunger lock accessories.
- Quick release button.
- Chrome finish.

12	S "	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
K.3/4B	3/4	19,05	29,9	36	14	49	207
K.7/8B	3/4	22,23	33,4	36	14	51	220
K.15/16B	15/16	23,81	35,7	36	14	51	233
K.1'B	1"	25,40	37,7	36	14	52,5	250
K.1'1/16B	1 1/16"	26,99	39,5	36	18	52,5	232
K.1'1/8B	1 1/8"	28,58	41,4	36	18	52,5	241
K.1'3/16B	1 3/16"	30,16	43,2	36	20	59	280
K.1'1/4B	1 1/4"	31,75	45,7	36	22	59	304
K.1'5/16B	1 5/16"	33,34	47,9	36	22	59	326
K.1'3/8B	1 3/8"	34,93	49,9	36	24	59	343
K.1'7/16B	1 7/16"	36,51	50,7	36	24	59	339

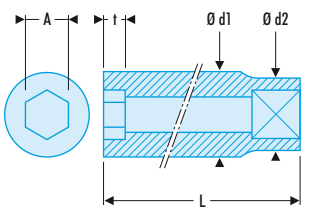
12	S "	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
K.1'1/2B	1 1/2"	38,1	54	40	27	66,9	478
K.1'9/16B	1 9/16"	39,69	55,9	40	27	66,9	498
K.1'5/8B	1 5/8"	41,28	57	40	27	66,9	498
K.1'11/16B	1 11/16"	42,86	60,4	40	27	66,9	564
K.1'3/4B	1 3/4"	44,45	61,9	40	28	66,9	586
K.1'13/16B	1 13/16"	46,04	63,2	40	30	75	641
K.1'7/8B	1 7/8"	47,63	65,9	40	33	75	699
K.2'B	2"	50,80	68,2	40	33	75	698
K.2'1/8B	2 1/8"	53,98	73,9	45	36	75	880
K.2'3/16B	2 3/16"	55,56	74,5	45	36	75	855
K.2'1/4B	2 1/4"	57,15	76,9	45	36	75	913

K.LA 3/4" long-reach metric 6-point OGV® sockets

▷ Performance : to ISO 2725-1, DIN 3124, NF ISO 2725-1.

6	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
K.19LA	19	29,8	36	18	87,5	339
K.21LA	21	32,0	36	18	87,5	367
K.22LA	22	33,5	36	21	87,5	391
K.23LA	23	35,8	38	21	87,5	461
K.24LA	24	35,8	38	24	87,5	400
K.26LA	26	38,8	36	24	87,5	474
K.27LA	27	39,6	38	27	87,5	480
K.29LA	29	42,1	40	27	87,5	505
K.30LA	30	43,3	40	30	87,5	530
K.32LA	32	45,8	40	33	87,5	540
K.33LA	33	48,0	45	33	87,5	600
K.34LA	34	48,3	45	33	87,5	656
K.35LA	35	50,0	45	33	87,5	707
K.36LA	36	50,8	45	36	87,5	672

6	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
K.38LA	38	54,1	45	36	87,5	772
K.41LA	41	57,1	45	40	87,5	778
K.42LA	42	59,5	45	40	87,5	863



KT.A 3/4" drive metric bits for hexagon socket heads

• Interchangeable bits with plunger lock.

	S mm	Bit only	g
KT.14A	14	ET.1914	297
KT.17A	17	ET.1917	307
KT.19A	19	ET.1919	314

Metric socket sets ⍁ 1"

Set of 1" drive 6-point sockets 42 to 82 mm

M.431E

• Comprising :
Metal case.
BT.101 : 768 x 344 x 158 mm.
Tray PL.57.

			⍙ kg
M.431E	6	M.151	46

M.HA	46 - 50 - 54 55 - 58 - 60 - 63 - 65 - 67 - 70 71 - 75 - 77 - 80 - 82 mm
	M.120A, M.210A, M.151, M.215A

Set of 1" drive 6-point sockets 58 to 100 mm

M.441E

• Comprising :
Metal case.
BT.101 : 768 x 344 x 158 mm.
Tray PL.54.

			⍙ kg
M.441E	6	M.151	64,2

M.HA	58 - 60 - 63 - 65 - 67 - 70 - 71 - 75 - 77 - 80 82 - 85 - 90 - 95 - 100 mm
	M.120A, M.210A, M.151, M.215A

Set of 1" drive 6-point sockets 41 to 80 mm

M.423E

• Comprising :
Metal case.
BT.104 : 568 x 344 x 123 mm.
Tray PL.85.

			⍙ kg
M.423E	6	M.151	29,7

M.HA	41 - 46 - 50 - 55 - 60 - 65 - 70 75 - 80 mm
	M.120A, M.210A, M.151, M.215A

Inch socket sets ⍁ 1"

Set of 1" drive sockets 1 7/8" to 3 3/8"

M.431U

• Comprising :
Metal case.
BT.101 : 768 x 344 x 158 mm.
Tray PL.58.

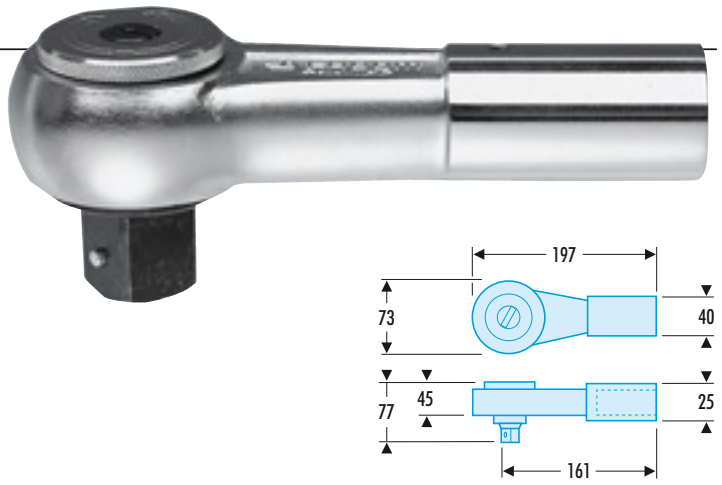
			⍙ kg
M.431U	6	M.151	39,5

M.HA	1 7/8" - 2" - 2 1/8" - 2 3/16" - 2 1/4" - 2 3/8" 2 1/2" - 2 5/8" - 2 3/4" - 3" - 3 1/8" - 3 3/8"
	M.120A, M.210A, M.151, M.215A

Mammoth ⍁ 1" range

Ratchets and accessories ⍁ 1"

1" drive ratchet without handle



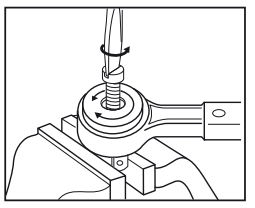
M.151

▷ Performance : to ISO 3315, DIN 3122, NF E 74.365.
• 5° increments.
• For use with bars M.125 or M.126 and handle M.120.
• Chrome finish.
⍁ : 2.1 kg.

Spare parts kit for ratchet M.151

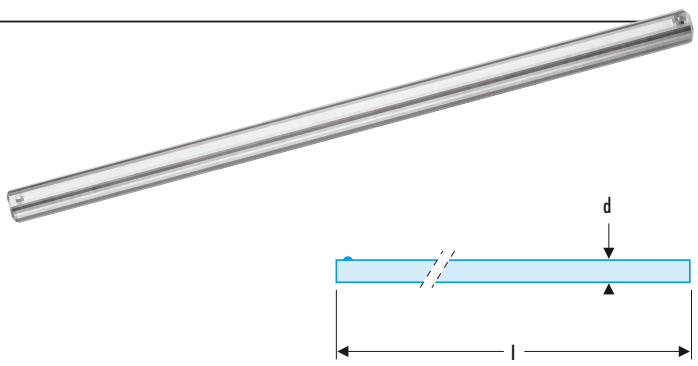
M.151RN Worm parts kits : comprising spring, screw and pawl.
M.151C Knurl cap.
M.151R Square drive.

	⍁ g
M.151RN	80
M.151C	120
M.151R	470



M.125A - 126A bars for ratchet M.151

• Chrome finish.
• Used as extension handles on ratchet M.151.

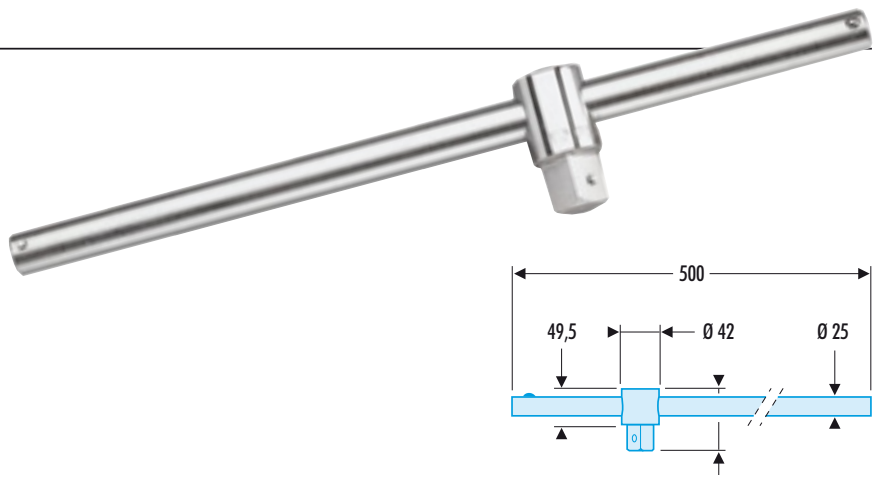


	d mm	l mm	⍁ kg
M.125A	25	500	1,9
M.126A	25	700	2,7

1" drive sliding tee

M.120A

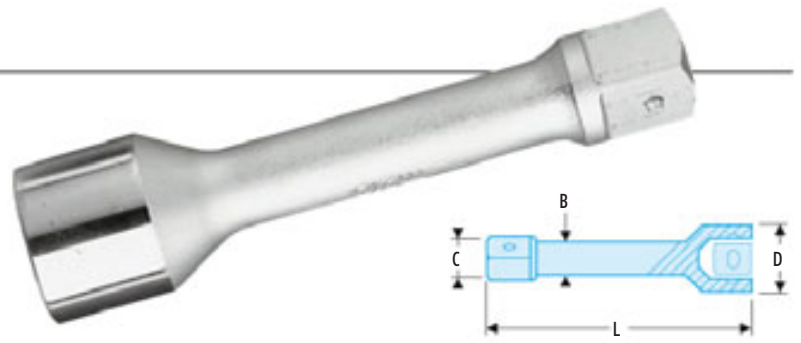
▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315.
• Friction-head allows bar to form a T or L-handle.
• Chrome finish.
⍁ : 2.4 kg.



M 1" drive extensions

▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
• Plunger safety lock.
• Chrome finish.

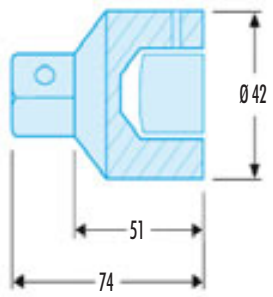
	B mm	C mm	D mm	L mm	⍁ kg
M.210A	25	33	48	200	1,1
M.215A	25	33	48	415	2



1" to 3/4" coupler

M.230C

▷ Performance : to ISO 3316, DIN 3123, NF ISO 3316.
• Maximum torque 1412 N.m.
• 1" female to 3/4" male square drive.
• For adapting 3/4" drive sockets.
• Interchangeable 3/4" male square ref. M.230C1.
• Chrome body, burnished male drive.
⍁ : 415 g.



Interchangeable 3/4" male drive

M.230C1

• Maximum torque 1412 N.m.
• Interchangeable 3/4" male square attaches to 1" to 3/4" coupler ref. M.230C
• Burnished finish.
⍁ : 111 g.

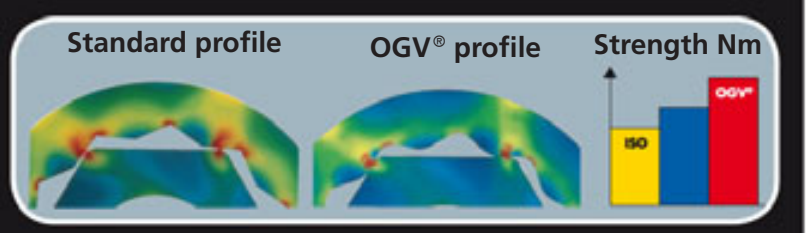
Sockets ⍁ 1"

Facom OGV® profile

HIGHER TORQUE WITHOUT DAMAGING THE FASTENER !

The OGV® profile is achieved by a succession of curves instead of the flats found in conventional sockets®.

- ***More powerful tightening :***
  Larger contact area between socket and fastener minimises stress.
- ***Less wear :***
  Torque is transmitted through the fastener flats instead of the corners.
- ***Increased durability :***
  Stress concentration in the corners is eliminated.



TAG socket inserts

- Immediately identify your sockets.
- 6- or 12 point sockets.

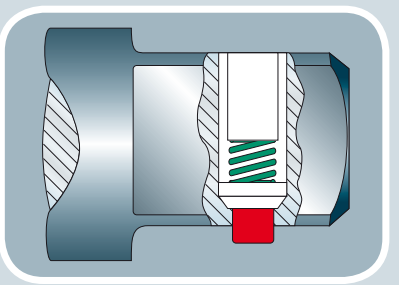
TAG

Mammoth 1" range

3/4" - 1" Locking of sockets and accessories

SAFETY AND COMFORT

- Lock system prevents accidental socket loss during use.
- Quick release simply by pressing the plunger.
- Compatible with standard ball-lock tools.

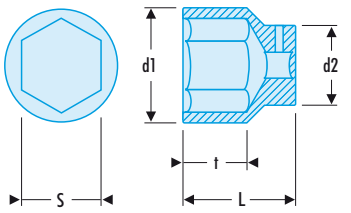


M.HA 1" drive metric 6-point OGV® sockets

▷ Performance : to ISO 2725-1, DIN 3124, NF ISO 2725-1.

- Thinner, lighter body.
- Secure attachment of plunger lock accessories.
- Push-button release.
- Chrome finish.

	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
M.41HA	41	56,9	51,3	25	74	685
M.46HA	46	64,4	51,3	30	76	852
M.50HA	50	69,4	51,3	33	80	968
M.54HA	54	74,4	56,3	31	84	1262
M.55HA	55	75,4	56,3	36	84	1262
M.58HA	58	79,6	56,3	35	85	1354
M.60HA	60	82,4	56,3	39	87	1432
M.63HA	63	85,4	58,3	35	92	1545
M.65HA	65	88,4	58,3	42	92	1652
M.67HA	67	90,4	58,3	39	92	1687
M.70HA	70	94,4	58,3	45	96	1921
M.71HA	71	95,4	58,3	45	96	1904
M.75HA	75	100,4	65,3	48	100	2261
M.77HA	77	107,4	65,3	51	100	2715
M.80HA	80	107,4	65,3	52	106	2800
M.82HA	82	109,4	65,3	52	110	2880
M.85HA	85	113,4	73,3	52	110	3225
M.90HA	90	120,4	73,3	56	110	3555
M.95HA	95	126,4	73,3	56	110	3800
M.100HA	100	132,4	73,3	56	115	4225

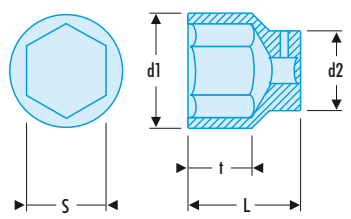


M.HA 1" drive inch 6-point OGV® sockets

▷ Performance : to GGG.W.641E, ANSI B 107.1, ASME B 107.1.

- Thinner, lighter body.
- Secure attachment of plunger lock accessories.
- Push-button release.
- Chrome finish.

	S "	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	g
M.1'13/16HA	1"13/16	46,04	64,4	51,3	30	76	852
M.1'7/8HA	1"7/8	47,63	66,4	51,3	29	80	929
M.2'HA	2"	50,8	70,4	51,3	31	80	1000
M.2'1/8HA	2"1/8	53,98	74,4	56,3	31	84	1262
M.2'3/16HA	2"3/16	55,56	75,4	56,3	35	84	1253
M.2'1/4HA	2"1/4	57,15	78,5	56,3	35	84	1368
M.2'3/8HA	2"3/8	60,33	82,4	56,3	39	87	1439
M.2'1/2HA	2"1/2	63,5	86,4	58,3	35	92	1570
M.2'5/8HA	2"5/8	66,68	90,4	58,3	39	92	1704
M.2'3/4HA	2"3/4	69,85	58,3	94,4	45	96	1904
M.3'HA	3"	76,2	103,4	65,3	51	100	2347
M.3'1/8HA	3"1/8	79,37	107,4	65,3	51	106	2770
M.3'3/8HA	3"3/8	85,72	113,4	73,3	56	110	3225

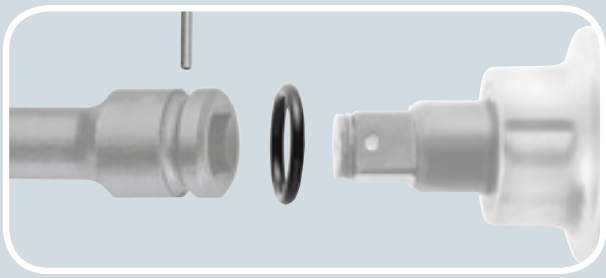


Impact socket sets

DEVELOPED FOR YOUR POWER TOOLS

PERFORMANCE

- Specially designed to resist the stresses from impact (section 14), or "Dynapact" tools (section15). Their special steel and heat treatment ensure a very high yield strength and wear resistance.



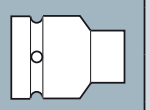
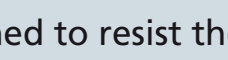
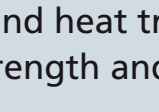
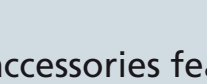
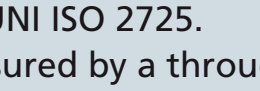
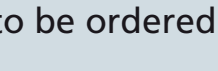
SAFETY

- All sockets and accessories feature a groove and side-hole to UNI ISO 2725. Locking is ensured by a through-pin and retaining ring (to be ordered separately).

- Never fit chrome-finished manual sockets Impact tools.

Pins		Rings	
	Ø x L mm		Ø tore x Ø in mm
GA.15A	2,5 x 15,0	BA.16A	2,4 x 16,0
GA.18A	2,5 x 18,0	BA.19A	2,4 x 19,0
GA.20A	3,0 x 20,0	BA.21A	2,4 x 21,0
GA.24A	3,0 x 24,0	BA.20A	3,5 x 20,2
GA.37A	4,0 x 37,0	BA.24A	3,5 x 24,0
GA.43A	5,0 x 43,0	BA.25A	3,5 x 25,0
GA.75A	6,0 x 75,0	BA.38A	3,5 x 38,0
GA.84A	6,0 x 84,0	BA.46A	3,5 x 46,0
		BA.75A	5,7 x 75,0
		BA.85A	5,7 x 85,0

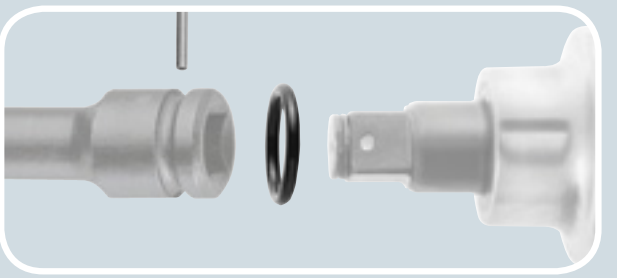
Choosing impact tools

Type of tool	◪ Drive	Sizes
SOCKET 	◪ 3/8" ◪ 1/2" ◪ 3/4" ◪ 1" ◪ 1"1/2	6 → 19 mm 8 → 32 mm ; 3/8" → 1"1/16 17 → 46 mm ; 3/4" → 1"5/8 21 → 77 mm 55 → 120 mm 12 16 → 22 mm
TORX® SOCKET	◪ 1/2"	E10 → E24
LONG-REACH SOCKET	◪ 1/2" ◪ 3/4" ◪ 1"	8 → 32 mm 17 → 46 mm 22 → 70 mm 8 → 32 mm 21 → 36 mm 24 → 50 mm
EXTRA-LONG-REACH SOCKET	◪ 1"	30, 32, 33 mm
MONOCLOC BIT	◪ 1/2" ◪ 3/4"	5 → 19 mm T30 → T60 17 → 24 mm
EXTENSION 	◪ 3/8" ◪ 1/2" ◪ 3/4" ◪ 1" ◪ 1"1/2	L : 76 - 150 mm L : 50 - 252 mm L : 100 - 330 mm L : 125 - 330 mm L : 250 - 330 mm
UNIVERSAL JOINT 	◪ 3/8" ◪ 1/2"	1 modèle par carré d'entrainement
COUPLER 	◪ 3/8" ◪ 1/2" ◪ 3/4" ◪ 1" ◪ 1"1/2	◪ 3/8" → ◪ 1/2" ◪ 1/2" → ◪ 3/4" ◪ 3/4" → ◪ 1" ◪ 1" → ◪ 1"1/2 ◪ 1"1/2→ ◪ 2"1/2 ◪ 3/8" → ◪ 1/4" ◪ 1/2" → ◪ 3/8" ◪ 3/4" → ◪ 1" ◪ 1" → ◪ 3/4" ◪ 1"1/2 → ◪ 1"
DYNAPACT WRENCH 	◪ 3/4" ◪ 1"	1000 N.m 2000 N.m
IMPACT SCREWDRIVER 	◪ 3/8" ◪ 1/2"	200 N.m 400 N.m

Impact sockets and accessories ⍁ 3/8"

Safety first

- For your safety, use impact sockets and accessories with the appropriate rings and pins.
- Never fit chrome-finished manual sockets or accessories to impact tools.

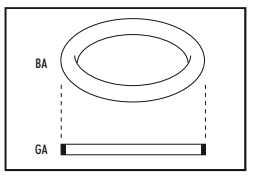


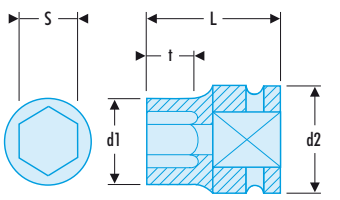
NJ.A 3/8" drive metric 6-point impact sockets

▷ Performance : to ISO 2725-2, NF ISO 2725-2.

• For your safety, use impact sockets with the appropriate rings and pins.

	S mm	Ø d1 mm	Ø d2 mm	T mm	L mm	GA	BA	⍙ g
NJ.6A	6	11,5	19	6	30	GA.15A	BA.16A	38
NJ.7A	7	12,5	19	8	30	GA.15A	BA.16A	41
NJ.8A	8	14,0	19	8	30	GA.15A	BA.16A	41
NJ.9A	9	15,0	19	8	30	GA.15A	BA.16A	42
NJ.10A	10	16,5	19	8	30	GA.15A	BA.16A	41
NJ.11A	11	17,5	19	9	32	GA.15A	BA.16A	47
NJ.12A	12	19,0	19	9	30	GA.15A	BA.16A	49
NJ.13A	13	20,0	22	10	30	GA.18A	BA.19A	49
NJ.14A	14	21,5	22	11,5	30	GA.18A	BA.19A	63
NJ.16A	16	24,0	22	12,5	30	GA.18A	BA.19A	72
NJ.17A	17	25,0	22	12,5	30	GA.18A	BA.19A	70
NJ.19A	19	27,5	22	14	30	GA.18A	BA.19A	77

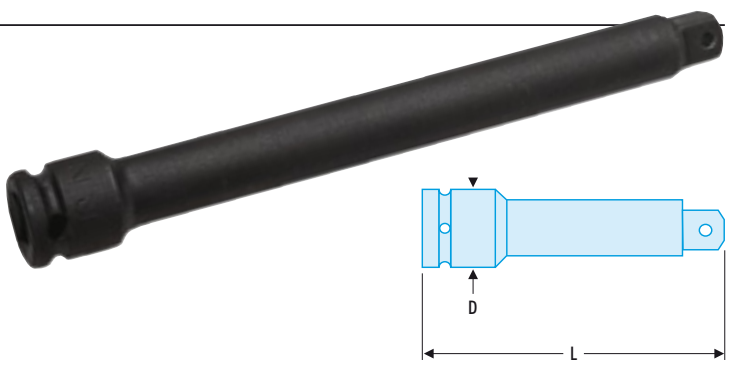




3/8" drive impact extensions

• For your safety, use impact extensions with the appropriate rings and pins.

	L mm	D mm	⍙ g	GA	BA
NJ.210A	75	19	95	GA.15A	BA.16A
NJ.211A	150	19	170	GA.15A	BA.16A

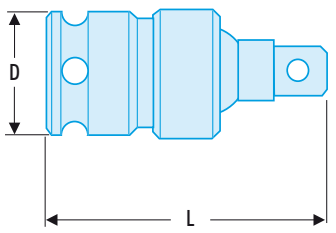


3/8" drive impact universal joint

NJ.240A

• For your safety, use impact universal joints with the appropriate rings and pins.

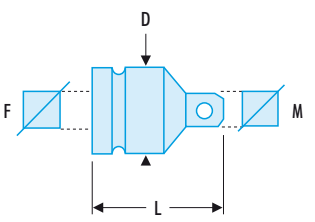
	D mm	L mm	GA	BA	⍙ g
NJ.240A	23,85	51	GA.18	BA.21	85



3/8" drive impact couplers

• For your safety, use impact couplers with the appropriate rings and pins.

	Female ⍁ F	Male ⍁ M	L mm	D mm	GA	BA	⍙ g
NJ.230A	3/8"	1/4"	32	22	GA.18A	BA.19A	40
NJ.232A	3/8"	1/2"	36	22	GA.18A	BA.19A	95



Create your drive bits

?

Bits

Series 2⬡ 5/16"
Series 3 ⬡ 1/2"

See section 7 p. 351

Impact bit holders ⧄ 3/8"

NJ.236A

NJ.237A

p. 363

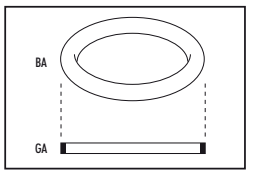
⬡ 5/16" 7,94 mm

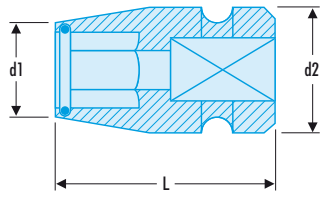
⬡ 1/2" 12,70 mm

3/8" drive impact bit-holders

▷ Performance : to ISO 1174-2, DIN 3121, NF ISO 1174-2.

	∅ "	∅ d1 mm	∅ d2 mm	L mm	GA	BA	⚖ g
NJ.236A	5/16	14,0	19	37	GA.15A	BA.16A	35
NJ.237A	1/2	19	19	37	GA.15A	BA.16A	40





New

14-piece 3/8" drive impact bit set

JHX.14

• Comprising :
- 2 bit holders ⧄ 1/2", ∅ 1/2" and 5/16".
- O Hexagonal 6-7-8-10-12 and 14 mm.
- ✪ Torx® no. 30-40-45-50 and 55.
- BP.102.
- PL.402A.

⚖ : 800 g.

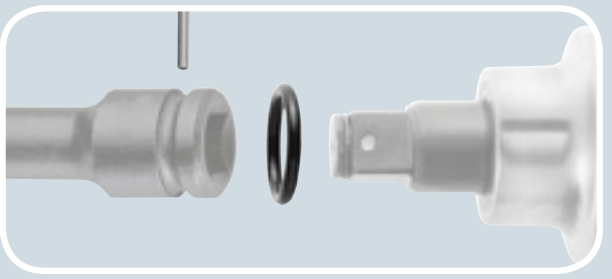
Facom power tools

Facom has a wide range of air and portable electric tools, including impact wrenches, ratchets, screwdrivers, drills, grinders, sanders, power chisels, etc.

See section 14 page 570

Safety first

- For your safety, use impact sockets and accessories with the appropriate rings and pins.
- Never fit chrome-finished manual sockets or accessories to Impact tools.

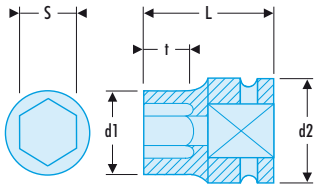


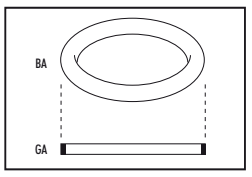
Impact sockets and accessories ☐ 1/2"

NS.A 1/2" drive metric and inch 6-point impact sockets

▷ Performance : to ISO 2725-2, NF ISO 2725-2.

6	S"	S mm	Ø d1 mm	Ø d2 mm	T mm	L mm	GA	BA	g
NS.8A		8	15,0	25	9	38	GA.20A	BA.20A	70
NS.9A		9	16,0	25	12	38	GA.20A	BA.20A	70
NS.10A	NS.3/8A	10	17,5	25	12	38	GA.20A	BA.20A	75
NS.11A	NS.7/16A	11	18,7	25	12	38	GA.20A	BA.20A	76
NS.12A		12	20,0	25	12	38	GA.20A	BA.20A	75
NS.13A	NS.1/2A	13	21,0	25	12	38	GA.20A	BA.20A	76
NS.14A	NS.9/16A	14	22,5	25	12	38	GA.20A	BA.20A	83
NS.15A		15	23,7	30	12	38	GA.24A	BA.25A	112
NS.16A	NS.5/8A	16	25,0	30	12	38	GA.24A	BA.25A	105
NS.17A	NS.11/16A	17	26,5	30	13	38	GA.24A	BA.25A	112
NS.18A		18	27,5	30	13	38	GA.24A	BA.25A	110
NS.19A	NS.3/4A	19	29,0	30	14	38	GA.24A	BA.25A	112
NS.20A		20	30,0	30	15	38	GA.24A	BA.25A	116
NS.21A	NS.13/16A	21	31,0	30	15	38	GA.24A	BA.25A	156
NS.22A	NS.7/8A	22	32,5	30	16	38	GA.24A	BA.25A	156
NS.23A	NS.15/16A	23	33,5	30	16	38	GA.24A	BA.25A	162
NS.24A		24	35,0	30	20	45	GA.24A	BA.25A	169
NS.26A	NS.1'A	26	38,0	30	24	50	GA.24A	BA.25A	192
NS.27A	NS.1'1/16A	27	39,0	30	24	50	GA.24A	BA.25A	220
NS.28A		28	40,0	30	24	50	GA.24A	BA.25A	273
NS.29A		29	41,0	30	24	50	GA.24A	BA.25A	276
NS.30A		30	43,0	30	24	50	GA.24A	BA.25A	285
NS.32A		32	45,0	30	24	50	GA.24A	BA.25A	278





9-piece rack set of 1/2" drive metric 6-point impact sockets

NS.J9

▷ Performance : to ISO 2725-2, NF ISO 2725-2.

- A selection of the most popular sizes for automotive applications :
- NS.13A-14A-16A-17A-18A-19A-21A-22A and 24A.
- Essential accessory for any ☐ 1/2".
- Supplied on a rack CKS.95.

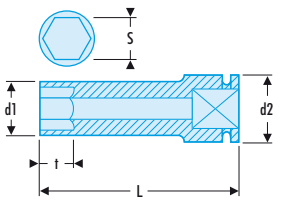
⚖ : 1.2 kg.

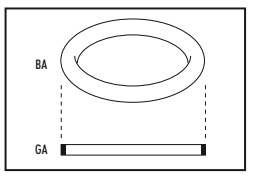
1/2" drive metric 6-point impact socket modules

	Contents			⚖
	Socket	Bit holder	Tray	kg
MOD.NS1	NS.10A-11A-12A-13A-14A-15A-16A-17A-18A-19A-21A-22A-23A-24A	-	PL.610	2,0
MOD.NS2	NS.13A-14A-15A-16A-17A-18A-19A-21A-22A-27A-30A-32A	2 bits holders ∅ 1/2" et 5/16"	PL.623	2,9

NS.LA 1/2" drive long-reach metric 6-point impact sockets

	S mm	Ø d1 mm	Ø d2 mm	T mm	L mm	GA	BA	⧋ g
NS.8LA	8	15,0	25	13	78	GA.20A	BA.20A	130
NS.10LA	10	17,5	25	14	78	GA.20A	BA.20A	154
NS.11LA	11	18,7	25	14	78	GA.20A	BA.20A	163
NS.12LA	12	20,0	25	14	78	GA.20A	BA.20A	169
NS.13LA	13	21,0	25	14	78	GA.20A	BA.20A	185
NS.14LA	14	22,5	25	17	78	GA.20A	BA.20A	201
NS.16LA	16	25,0	30	17	78	GA.24A	BA.25A	224
NS.17LA	17	26,0	30	17	78	GA.24A	BA.25A	252
NS.18LA	18	27,5	30	17	78	GA.24A	BA.25A	283
NS.19LA	19	29,0	30	19	78	GA.24A	BA.25A	268
NS.21LA	21	31,0	30	24	78	GA.24A	BA.25A	310
NS.22LA	22	32,5	30	24	78	GA.24A	BA.25A	302
NS.23LA	23	33,5	30	24	78	GA.24A	BA.25A	298
NS.24LA	24	35,0	30	24	78	GA.24A	BA.25A	309
NS.26LA	26	38,0	30	24	78	GA.24A	BA.25A	311
NS.27LA	27	39,0	30	24	78	GA.24A	BA.25A	325
NS.28LA	28	40,0	30	24	78	GA.24A	BA.25A	323
NS.29LA	29	41,0	30	24	78	GA.24A	BA.25A	357
NS.30LA	30	43,0	30	24	78	GA.24A	BA.25A	352
NS.32LA	32	45,0	30	24	78	GA.24A	BA.25A	317



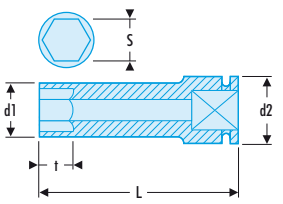


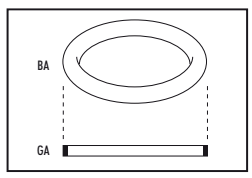
NSB 1/2" drive long-reach metric thin-wall 6-point impact sockets

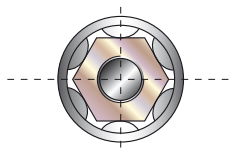
▷ Performance : to ISO 2725-2, NF ISO 2725-2.

- For your safety, use impact sockets with the appropriate rings and pins.
- Thin wall for better access.
- 6-point convex pattern for increased resilience.

	S mm	d1 mm	d2 mm	T mm	L mm	GA	BA	⧋ g
NSB.8	8	13,0	25	8	80	GA.20A	BA.20A	165
NSB.10	10	15,0	25	10	80	GA.20A	BA.20A	170
NSB.11	11	16,2	25	11	80	GA.20A	BA.20A	180
NSB.12	12	18,2	25	12	80	GA.20A	BA.20A	200
NSB.13	13	19,0	25	13	80	GA.20A	BA.20A	210
NSB.14	14	21,0	30	14	80	GA.24A	BA.25A	205
NSB.15	15	22,0	30	15	80	GA.24A	BA.25A	220
NSB.16	16	23,0	30	16	80	GA.24A	BA.25A	230
NSB.17	17	24,0	30	17	80	GA.24A	BA.25A	245
NSB.18	18	25,5	30	18	80	GA.24A	BA.25A	245
NSB.19	19	27,0	30	19	80	GA.24A	BA.25A	240
NSB.21	21	30,0	30	22	80	GA.24A	BA.25A	245
NSB.22	22	31,0	30	23	85	GA.24A	BA.25A	250
NSB.24	24	32,0	30	24	85	GA.24A	BA.25A	280
NSB.27	27	36,0	30	27	85	GA.24A	BA.25A	325
NSB.30	30	39,0	30	30	85	GA.24A	BA.25A	330
NSB.32	32	41,0	30	32	85	GA.24A	BA.25A	335







3-piece set of 1/2" drive long-reach thin-wall impact sockets for wheel nuts

NSB.3

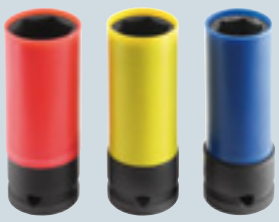
- Includes ☐ 1/2".
- Special series for wheel nuts.

⧋ : 740 g.

Sockets for alloy wheels

- **NSAL.3 = set of 3 deep impact sockets withprotective plastic sleeves to prevent damage to polished chrome or alloy wheels.**

See section 18 p. 785 Wheels-Hubs-Transmission

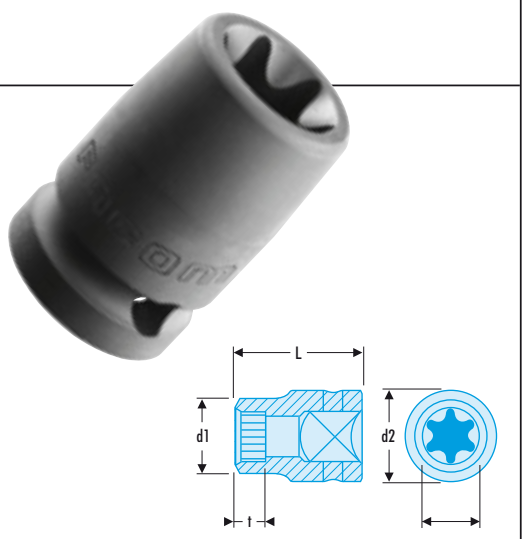


New

NSTX Torx® 1/2" impact sockets

• For your safety, use impact sockets with the appropriate rings and pins.

	Torx® no.	mm	Ø d1 mm	Ø d2 mm	t mm	L mm	GA	BA	g
NSTX.10	E10	9,19	14,2	25	6,4	38	GA.20A	BA.20A	86
NSTX.12	E12	10,95	15,2	25	8,0	38	GA.20A	BA.20A	85
NSTX.14	E14	12,67	18,2	25	8,8	38	GA.20A	BA.20A	88
NSTX.16	E16	14,70	19,2	25	9,6	38	GA.20A	BA.20A	88
NSTX.18	E18	16,38	22,2	25	11,1	38	GA.20A	BA.20A	89
NSTX.20	E20	18,16	24,2	30	12,7	38	GA.24A	BA.24A	134
NSTX.24	E24	21,84	28,2	30	17,0	40	GA.24A	BA.24A	138



New

7-piece Torx® 1/2" impact socket rack set

NSTX.J7

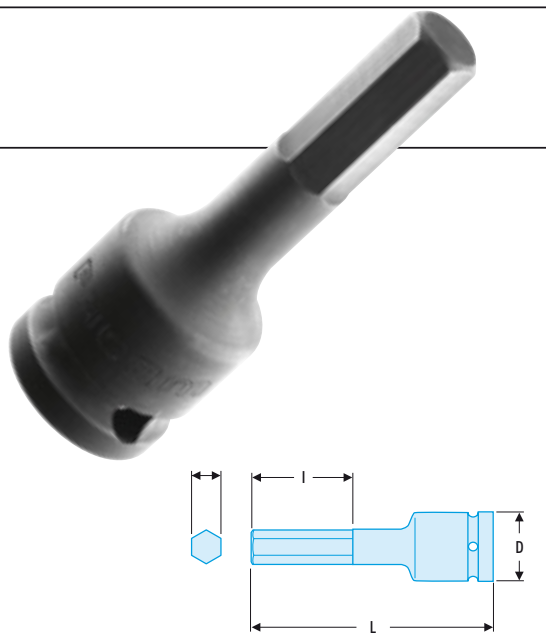
• For your safety, use impact sockets with the appropriate rings and pins.
• Set of 7 Torx impact sockets ☐ 1/2".
• Includes sizes :
NSTX : E10, E12, E14, E16, E18, E20, E24.
• Supplied on a rack CKS.97.
: 770 g.

New

NSHM 1/2" drive metric impact bits for hexagon socket heads

▷ Performance : to ISO 2725-2, NF ISO 2725-2.
• For your safety, use impact sockets with the appropriate rings and pins.
• Non-removable bits.

	mm	Ø D mm	l mm	L mm	GA	BA	g
NSHM.5	5	25	20	75	GA.20A	BA.20A	60
NSHM.6	6	25	20	75	GA.20A	BA.20A	60
NSHM.8	8	25	25	75	GA.20A	BA.20A	80
NSHM.10	10	25	25	75	GA.20A	BA.20A	100
NSHM.12	12	25	25	75	GA.20A	BA.20A	120
NSHM.14	14	25	25	75	GA.20A	BA.20A	120
NSHM.17	17	25	25	75	GA.20A	BA.20A	160
NSHM.19	19	25	25	75	GA.20A	BA.20A	180



New

8-piece rack set of 1/2" drive metric impact bits for hexagon socket heads

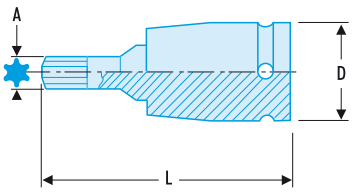
NSHM.J8

• For your safety, use impact sockets with the appropriate rings and pins.
• Set of 8 bits ☐ 1/2" for hexagon socket heads.
• Includes sizes : O NSHM.5, 6, 8, 10, 12, 14, 17, 19.
• Supplied on a rack CKS.95.
: 1.20 kg.

NSX 1/2" drive impact bits for Torx® heads

- For your safety, use impact sockets with the appropriate rings and pins.
- Interchangeable bits.

	Torx® no.	A mm	Components		D mm	L mm	g
NSX.30A	T30	5,49	NS.237A	NEX.30A	25	70	90
NSX.40A	T40	6,60	NS.237A	NEX.40A	25	70	95
NSX.45A	T45	7,77	NS.237A	NEX.45A	25	70	95
NSX.50A	T50	8,79	NS.237A	NEX.50A	25	70	100
NSX.55A	T55	11,17	NS.237A	NEX.55A	25	70	105
NSX.60A	T60	13,20	NS.237A	NEX.60A	25	70	110



Create your drive bits

?

Bits

Series 2 ⎔ 5/16"
Series 3 ⎔ 1/2" See section 7 p..351

Impact bit holders ⍁ 1/2"

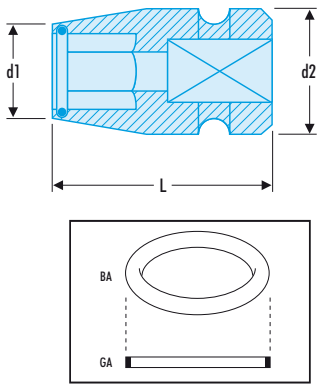
NS.236A
⎔ 5/16" 7,94 mm

NS.237A
⎔ 1/2" 12,70 mm

p. 363

1/2" drive impact bit-holders

	∅ "	∅ d1 mm	∅ d2 mm	L mm	GA	BA	g
NS.236A	5/16	15,5	25	40	GA.20A	BA.20A	65
NS.237A	1/2	20	25	40	GA.20A	BA.20A	40



14-piece 1/2" drive impact bit set

NHX.14A

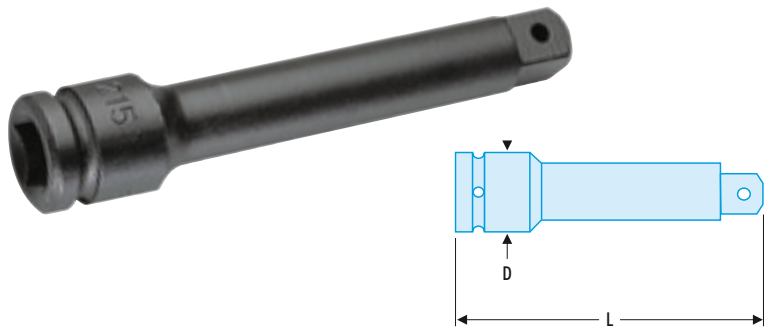
- Comprising :
- 2 bit holders ⍁ 1/2", ∅ 1/2" and 5/16".
- O Hexagonal 6-7-8-10-12 and 14 mm.
- ✪ Torx® no. 30-40-45-50 and 55.
- ✪ Phillips® 2 - 3 and 4.
- BP.102.
- PL.402A.

⍁⍁ : 800 g.

1/2" drive impact extensions

• For your safety, use impact extensions with the appropriate rings and pins.

	L mm	D mm	GA	BA	⚖ g
NS.210A	50	25	GA.20A	BA.20A	105
NS.215A	125	25	GA.20A	BA.20A	235
NS.218A	175	25	GA.20A	BA.20A	370
NS.219A	250	25	GA.20A	BA.20A	520

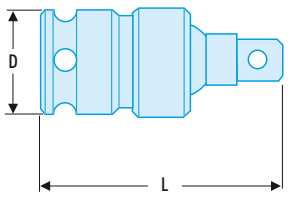


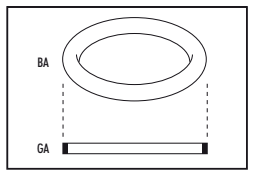
1/2" drive impact universal joint

NS.240A

• For your safety, use impact universal joints with the appropriate rings and pins.

	Ø D mm	L mm	GA	BA	⚖ g
NS.240A	27,9	60	GA.24A	BA.24A	205



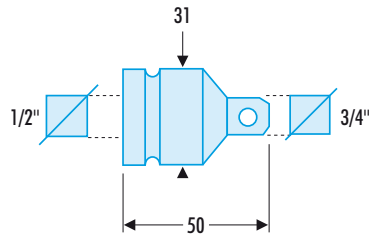


1/2" to 3/4" impact coupler

NS.232B

• For your safety, use impact couplers with the appropriate rings and pins.

	GA	BA	⚖ g
NS.232B	GA.24A	BA.25A	185

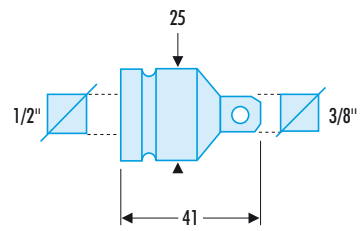


1/2" to 3/8" impact coupler

NS.230A

• For your safety, use impact couplers with the appropriate rings and pins.

	GA	BA	⚖ g
NS.230A	GA.20A	BA.20A	90



New

Set of 1/2" drive short and long-reach impact sockets 10 to 32 mm

NS.550A

• For your safety, use impact sockets with the appropriate rings and pins (included).
• Comprehensive set of tools for automotive applications : short and long-reach sockets, sockets for alloy wheels (17, 19, 21 mm).
• Supplied in plastic case BP 109 (478x234x72 mm) + tray PL.716.
⚖ : 5.1 kg.

Set of 1/2" drive impact sockets 8 to 27 mm

NS.500A

- For your safety, use impact sockets with the appropriate rings and pins.
- Supplied in a plastic case BP.112 (389 x 164 x 66 mm) + tray PL.416.

⚖ : 3.7 kg.

NS.A	8 - 9 - 10 - 11 - 12 - 13 - 14 - 15 - 16 17 - 18 - 19 - 21 - 22 - 23 - 24 - 26 - 27 mm	NS.240A	
BA	BA.20A - BA.24A - BA.25A	NS.215A	
GA	GA.20A - GA.24A		

Set of 1/2" drive impact sockets 3/8" to 11/16"

NS.500AU

- For your safety, use impact sockets with the appropriate rings and pins.
- Supplied in a plastic case BP.112 (389 x 164 x 66 mm) + tray PL.417.

⚖ : 3.1 kg.

NS.A	3/8″ - 7/16″ - 3/8″ - 1/2″ - 9/16″ - 5/8″ - 11/16″ 3/4″ - 13/16″ - 7/8″ - 15/16″ - 1″ - 1″1/16	NS.240A	
BA	BA.20A - BA.24A - BA.25A	NS.215A	
GA	GA.20A - GA.24A		

Set of 1/2" drive long-reach impact sockets 10 to 24 mm

NS.405A

- For your safety, use impact sockets with the appropriate rings and pins.
- Supplied in a plastic case BP.112 (389 x 164 x 66 mm) + tray PL.418.

⚖ : 4 kg.

NS.LA	10 - 11 - 12 - 13 - 14 - 16 - 17 - 19 21 - 22 - 23 - 24 mm

Facom power tools

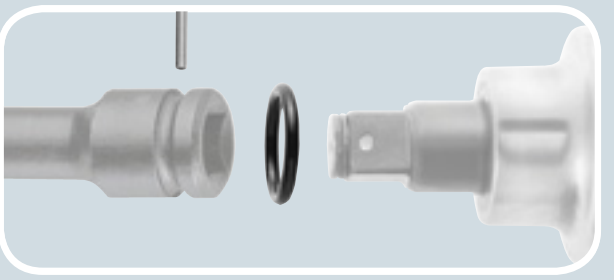
Facom has a wide range of air and portable electric tools, including impact wrenches, ratchets, screwdrivers, drills, grinders, sanders, power chisels, etc.

See section 14 p. 570

Impact sockets and accessories ◲ 3/4"

Safety first

- For your safety, use impact sockets and accessories with the appropriate rings and pins.
- Never fit chrome-finished manual sockets or accessories to Impact tools.

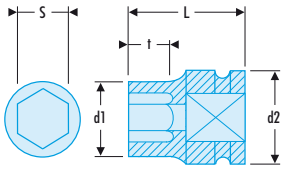


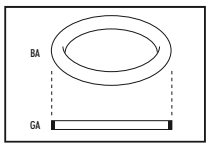
NK.A 3/4" drive metric and inch 6-point impact sockets

▷ Performance : to ISO 2725-2, NF ISO 2725-2.

• For your safety, use impact sockets with the appropriate rings and pins.

6	S"	Ø d1 mm	Ø d2 mm	t mm	L mm	GA	BA	g
NK.17A		30	44	12	52	GA.37A	BA.38A	300
NK.18A		32	44	13	50	GA.37A	BA.38A	310
NK.19A	NK.3/4A	33	44	14	50	GA.37A	BA.38A	315
NK.21A	NK.13/16A	35	44	15	50	GA.37A	BA.38A	330
NK.22A	NK.7/8A	37	44	16	50	GA.37A	BA.38A	345
NK.23A		38	44	16	50	GA.37A	BA.38A	350
NK.24A	NK.15/16A	39	44	17	50	GA.37A	BA.38A	350
NK.26A	NK.1'A	42	44	18	50	GA.37A	BA.38A	480
NK.27A	NK.1-1/16A	43	44	23	54	GA.37A	BA.38A	480
NK.28A		44	44	23	54	GA.37A	BA.38A	520
NK.29A	NK.1'11/8A	45	44	23	54	GA.37A	BA.38A	520
NK.30A		47	44	23	54	GA.37A	BA.38A	545
NK.32A	NK.1'1/4A	49	44	23	56	GA.37A	BA.38A	620
NK.33A		51	44	23	56	GA.37A	BA.38A	650
NK.34A		52	44	23	56	GA.37A	BA.38A	680
NK.35A	NK.1'5/16A	53	44	23	56	GA.37A	BA.38A	680
NK.36A	NK.1'7/16A	54	44	25	56	GA.37A	BA.38A	705
NK.38A	NK.1'1/2A	57	44	26	58	GA.37A	BA.38A	890
NK.41A	NK.1'5/8A	60	44	28	58	GA.37A	BA.38A	890
NK.42A		62	44	29	58	GA.37A	BA.38A	925
NK.46A		67	44	32	63	GA.37A	BA.38A	1055



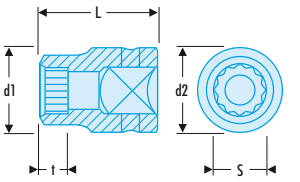


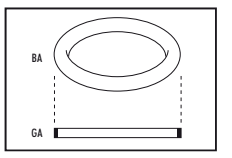
NKD.A 3/4" drive metric 12-point impact sockets

▷ Performance : to ISO 2725-2, NF ISO 2725-2.

• For your safety, use impact sockets with the appropriate rings and pins.

12	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	GA	BA	g
NKD.16A	16	29,0	44	12	52	GA.37A	BA.38A	300
NKD.17A	17	30,0	44	12	52	GA.37A	BA.38A	305
NKD.18A	18	31,5	44	14	52	GA.37A	BA.38A	310
NKD.19A	19	32,5	44	14	52	GA.37A	BA.38A	315
NKD.22A	22	36,5	44	16	52	GA.37A	BA.38A	340

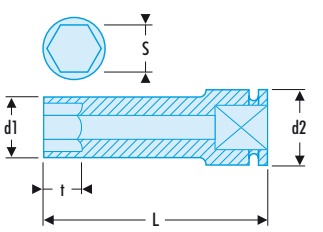




NK.LA 3/4" drive long-reach metric and inch 6-point impact sockets

• For your safety, use impact sockets with the appropriate rings and pins.

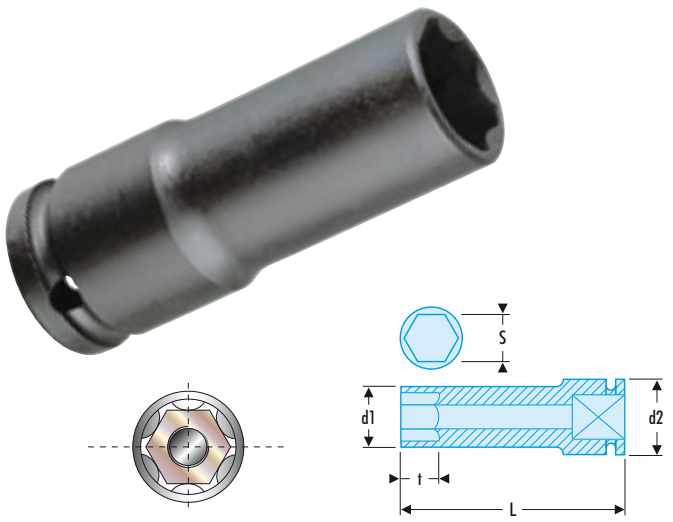
	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	GA	BA	kg
NK.17LA	17	31	44	17	95	GA.37A	BA.38A	550
NK.19LA	19	33	44	17	95	GA.37A	BA.38A	620
NK.21LA	21	35	44	24	95	GA.37A	BA.38A	600
NK.22LA	22	37	44	24	95	GA.37A	BA.38A	780
NK.23LA	23	38	44	24	95	GA.37A	BA.38A	780
NK.24LA	24	39	44	24	95	GA.37A	BA.38A	820
NK.26LA	26	42	44	24	95	GA.37A	BA.38A	800
NK.27LA	27	43	44	24	95	GA.37A	BA.38A	810
NK.29LA	29	45	44	24	95	GA.37A	BA.38A	890
NK.30LA	30	47	44	24	95	GA.37A	BA.38A	900
NK.32LA	32	49	44	24	95	GA.37A	BA.38A	930
NK.33LA	33	51	44	24	95	GA.37A	BA.38A	980
NK.34LA	34	52	44	24	95	GA.37A	BA.38A	1100



	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	GA	BA	kg
NK.35LA	35	53	44	24	95	GA.37A	BA.38A	1240
NK.36LA	36	54	44	25	95	GA.37A	BA.38A	1240
NK.38LA	38	57	44	60	95	GA.37A	BA.38A	1220
NK.41LA	41	60	44	60	95	GA.37A	BA.38A	1470
NK.42LA	42	62	44	60	95	GA.37A	BA.38A	1450
NK.46LA	46	67	44	60	95	GA.37A	BA.38A	1480

NKB 3/4" drive long-reach metric thin-wall 6-point impact sockets

▷ Performance : to ISO 2725-2, NF ISO 2725-2.
- For your safety, use impact sockets with the appropriate rings and pins.
- Thin wall for better access.
- 6-point convex pattern for increased resilience.

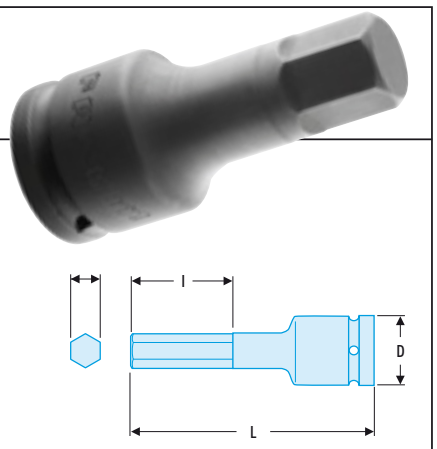


	S mm	d1 mm	d2 mm	t mm	L mm	g	GA	BA
NKB.21	21	33	44	21	102	600	GA.37A	BA.38A
NKB.22	22	34	44	22	102	600	GA.37A	BA.38A
NKB.24	24	36	44	24	102	640	GA.37A	BA.38A
NKB.27	27	40	44	27	102	670	GA.37A	BA.38A
NKB.30	30	43	44	30	102	700	GA.37A	BA.38A
NKB.32	32	46	44	32	102	706	GA.37A	BA.38A
NKB.33	33	48	44	33	102	750	GA.37A	BA.38A
NKB.36	36	50	44	36	102	765	GA.37A	BA.38A

New

NKHM 3/4" drive metric impact bits for hexagon socket heads

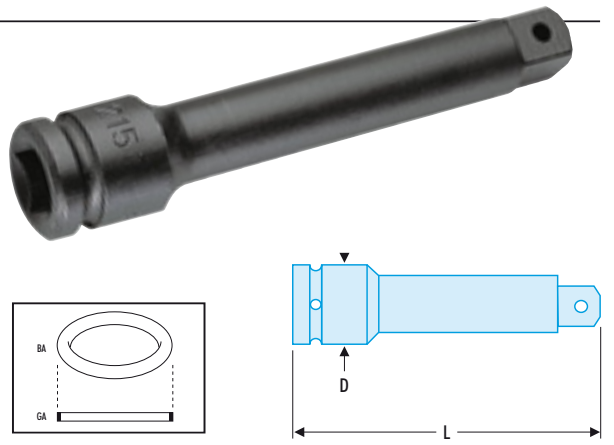
- For your safety, use impact sockets with the appropriate rings and pins.
- Non-removable bits.



	mm	Ø D mm	l mm	L mm	GA	BA	g
NKHM.17	17	44	20	100	GA.37A	BA.38A	600
NKHM.19	19	44	20	100	GA.37A	BA.38A	600
NKHM.22	22	44	20	100	GA.37A	BA.38A	600
NKHM.24	24	44	20	100	GA.37A	BA.38A	600

3/4" drive impact extensions

- For your safety, use impact extensions with the appropriate rings and pins.

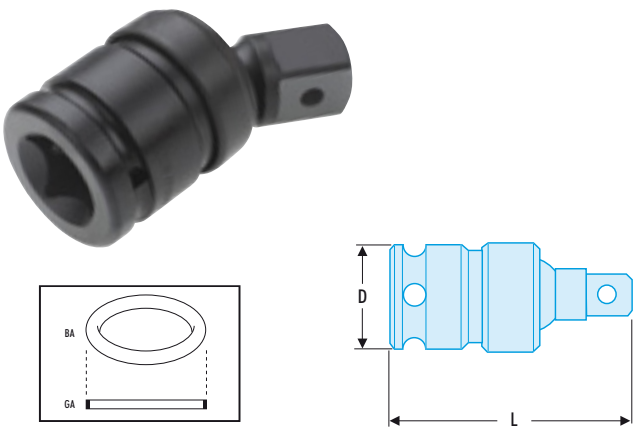


	Ø D mm	L mm	GA	BA	kg
NK.209A	44	100	GA.37A	BA.38A	0,6
NK.210A	44	175	GA.37A	BA.38A	1,05
NK.215A	44	252	GA.37A	BA.38A	1,17
NK.218A	44	330	GA.37A	BA.38A	1,51

3/4" drive impact universal joint

NK.240A

- For your safety, use impact universal joints with the appropriate rings and pins.

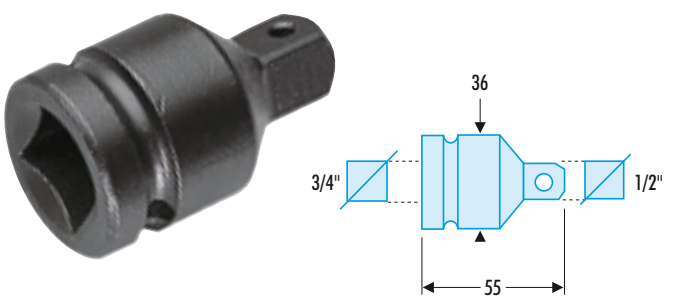


	Ø D mm	L mm	GA	BA	g
NK.240A	44	90	GA.37A	BA.38A	720

3/4" to 1/2" impact coupler

NK.230A

- For your safety, use impact couplers with the appropriate rings and pins.



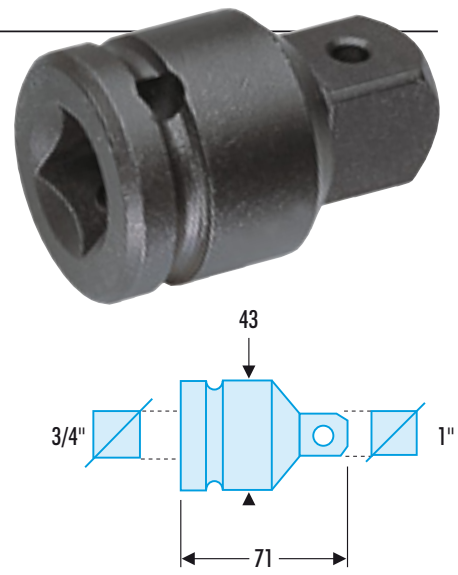
	GA	BA	g
NK.230A	GA.37A	BA.38A	210

3/4" to 1" impact coupler

NK.232A

• For your safety, use impact couplers with the appropriate rings and pins.

	GA	BA	⚖ g
NK.232A	GA.37A	BA.38A	525



Set of 3/4" drive impact sockets 19 to 42 mm

NK.500E

• For your safety, use impact sockets with the appropriate rings and pins.
• Supplied in a metal case BT.111 (396 x 224 x 82 mm) + tray PL.79A.
⚖ : 12.4 kg.

NK.A	19 - 21 - 22 - 23 - 24 - 26 - 27 - 28 - 29 - 30 32 - 34 - 36 - 38 - 41 - 42 mm	NK.240A	
BA	BA.38A	NK.210A	
GA	GA.37A		

Set of 3/4" drive impact sockets 3/4" to 15/8"

NK.500U

• For your safety, use impact sockets with the appropriate rings and pins.
• Supplied in a metal case BT.111 (396 x 224 x 82 cm) + tray PL.80A.
⚖ : 10.3 kg.

NK.A	3/4" - 13/16" - 7/8" - 15/16" - 1" - 1" 1/16 - 1" 1/8 1" 1/4 - 1" 5/16 - 1" 7/16 - 1" 1/2 - 1" 5/8	NK.240A	
BA	BA.38A	NK.210A	
GA	GA.37A		

Facom power tools

Facom has a wide range of air and portable electric tools, including impact wrenches, ratchets, screwdrivers, drills, grinders, sanders, power chisels, etc.

See section 14 p. 570

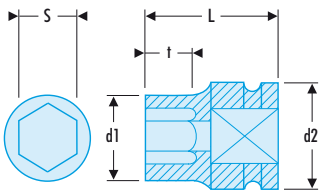
Impact sockets and accessories ⍁ 1"

NM.A 1" drive metric and inch 6-point impact sockets

▷ Performance : to ISO 2725-2, NF ISO 2725-2.

• For your safety, use impact sockets with the appropriate rings and pins.

6	S"	Ø d1 mm	Ø d2 mm	t mm	L mm	GA	BA	⍁ kg
NM.21A		38	54	17	58	GA.43A	BA.46A	0,520
NM.22A		40	54	17	58	GA.43A	BA.46A	0,500
NM.23A		41	54	17	58	GA.43A	BA.46A	0,500
NM.24A		42	54	17	58	GA.43A	BA.46A	0,500
NM.26A	NM.1'A	44	54	18	58	GA.43A	BA.46A	0,520
NM.27A		46	54	19	58	GA.43A	BA.46A	0,520
NM.28A		47	54	20	58	GA.43A	BA.46A	0,520
NM.29A	NM.1'1/8A	48	54	20	60	GA.43A	BA.46A	0,520
NM.30A		50	54	20	60	GA.43A	BA.46A	0,750
NM.32A	NM.1'1/4A	52	54	22	60	GA.43A	BA.46A	0,760
	NM.1'5/16A	54	54	22	62	GA.43A	BA.46A	0,75
NM.33A		53	54	22	60	GA.43A	BA.46A	0,750
NM.34A		55	54	23	62	GA.43A	BA.46A	0,750
NM.35A		56	54	26	62	GA.43A	BA.46A	0,800
NM.36A		57	54	26	65	GA.43A	BA.46A	0,840
	NM.1'1/2A	60	54	30	65	GA.43A	BA.46A	1,62
NM.38A		60	54	30	65	GA.43A	BA.46A	0,840
NM.41A	NM.1'5/8A	63	54	30	67	GA.43A	BA.46A	1,040
NM.42A		65	54	35	74	GA.43A	BA.46A	1,040
NM.46A	NM.1'13/16A	70	54	35	74	GA.43A	BA.46A	1,500
NM.50A		75	54	40	80	GA.43A	BA.46A	1,650
	NM.1'7/8A	72	54	35	74	GA.43A	BA.46A	1,62
NM.52A	NM.2'A	77	54	42	84	GA.43A	BA.46A	1,750
NM.54A	NM.2'1/8A	80	54	42	84	GA.43A	BA.46A	1,790
NM.55A		81	54	42	84	GA.43A	BA.46A	1,840
NM.56A		82	54	42	84	GA.43A	BA.46A	2,060
NM.58A		85	54	44	87	GA.43A	BA.46A	2,190
NM.60A		87	54	44	87	GA.43A	BA.46A	2,370
NM.65A		93	54	46	90	GA.43A	BA.46A	2,730
NM.70A		100	54	50	96	GA.43A	BA.46A	2,980
NM.75A		106	86	50	98	GA.75A	BA.75A	3,300
NM.77A		109	86	50	100	GA.75A	BA.75A	3,500

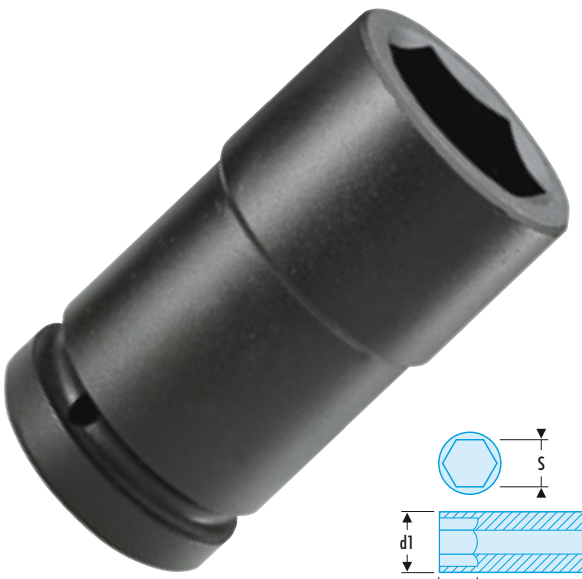


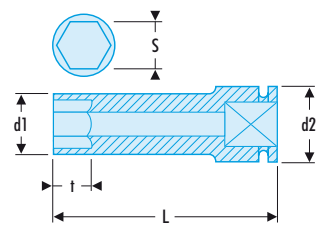
NM.LA 1" drive long-reach metric and inch 6-point impact sockets

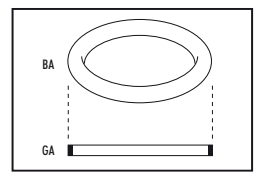
▷ Performance : to ISO 2725-2, NF ISO 2725-2.

• For your safety, use impact sockets with the appropriate rings and pins.

6	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	GA	BA	⍁ kg
NM.22LA	22	40	54	21	100	GA.43A	BA.46A	1
NM.23LA	23	41	54	21	100	GA.43A	BA.46A	1,05
NM.24LA	24	42	54	21	100	GA.43A	BA.46A	1,05
NM.26LA	26	44,5	54	24	100	GA.43A	BA.46A	1,08
NM.27LA	27	46	54	24	100	GA.43A	BA.46A	1,12
NM.29LA	29	48	54	24	100	GA.43A	BA.46A	1,2
NM.30LA	30	50	54	24	100	GA.43A	BA.46A	1,2
NM.32LA	32	52	54	24	100	GA.43A	BA.46A	1,25
NM.33LA	33	53	54	24	100	GA.43A	BA.46A	1,32
NM.34LA	34	55	54	40	100	GA.43A	BA.46A	1,32
NM.35LA	35	56	54	60	100	GA.43A	BA.46A	1,34
NM.36LA	36	57	54	65	100	GA.43A	BA.46A	1,5
NM.38LA	38	60	54	65	100	GA.43A	BA.46A	1,5
NM.41LA	41	63	54	64	100	GA.43A	BA.46A	1,65
NM.42LA	42	65	54	64	100	GA.43A	BA.46A	1,65
NM.46LA	46	70	54	63	100	GA.43A	BA.46A	1,56
NM.50LA	50	75	54	62	100	GA.43A	BA.46A	1,87
NM.54LA	54	80	54	61	100	GA.43A	BA.46A	1,78
NM.55LA	55	81	54	60	100	GA.43A	BA.46A	1,93
NM.58LA	58	85	54	65	105	GA.43A	BA.46A	2,12
NM.60LA	60	87	54	78	120	GA.43A	BA.46A	2,18
NM.65LA	65	93	54	80	125	GA.43A	BA.46A	2,25
NM.70LA	70	100	54	80	125	GA.43A	BA.46A	2,23



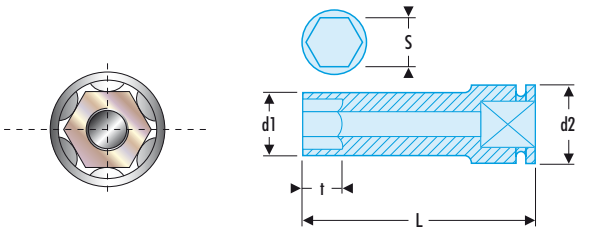




NMB Long-reach 6-point thin-wall sockets

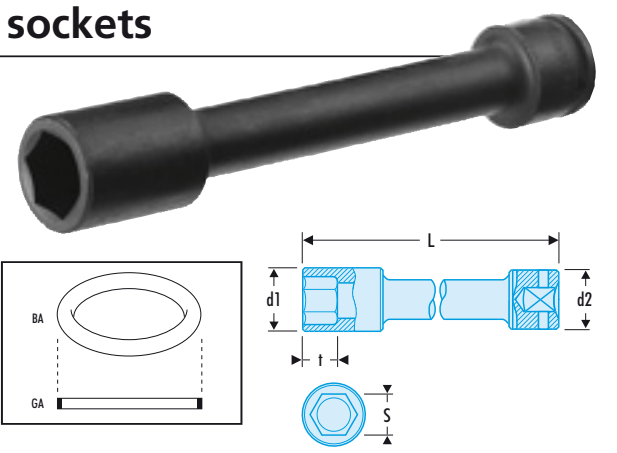
▷ Performance : to ISO 2725-2, NF ISO 2725-2.
• For your safety, use impact sockets with the appropriate rings and pins.
• Thin wall for better access.
• 6-point convex pattern for increased resilience.

	S mm	d1 mm	d2 mm	t mm	L mm	GA	BA	⏢ kg
NMB.24	24	38	54	24	108	GA.43A	BA.46A	0,94
NMB.27	27	42	54	27	108	GA.43A	BA.46A	1,00
NMB.30	30	46	54	30	108	GA.43A	BA.46A	1,04
NMB.32	32	48	54	32	108	GA.43A	BA.46A	1,04
NMB.33	33	49	54	33	108	GA.43A	BA.46A	1,05
NMB.36	36	53	54	36	108	GA.43A	BA.46A	1,08
NMB.46	46	66	54	38	108	GA.43A	BA.46A	1,48
NMB.50	50	74	54	66	108	GA.43A	BA.46A	1,48



NM.ELA 1" drive extra-long reach metric 6-point impact sockets

• For your safety, use impact sockets with the appropriate rings and pins.
E.g. = dual wheels of trucks.

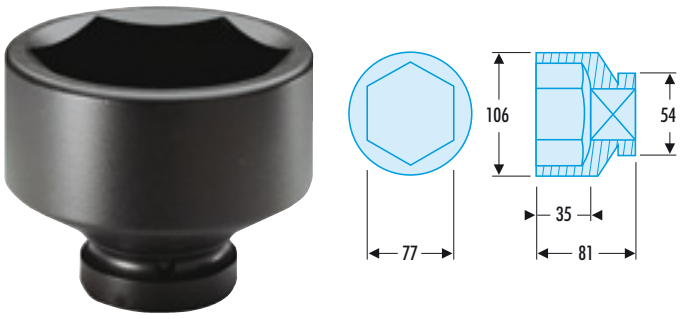


	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	GA	BA	⏢ kg
NM.30ELA	30	50	54	30	270	GA.43A	BA.46A	2,50
NM.32ELA	32	52	54	32	270	GA.43A	BA.46A	2,56
NM.33ELA	33	53	54	32	270	GA.43A	BA.46A	2,56

Special "Trailer" 1" drive metric impact socket

M.77TR

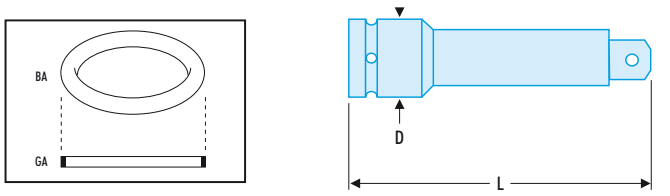
• For your safety, use ring BA.46A and pin GA.43A.
• For 77 mm 6-point trailer hub nut.
⏢ : 1.96 kg.



1" drive impact extensions

• For your safety, use impact extensions with the appropriate rings and pins.

	L mm	D mm	GA	BA	⏢ kg
NM.209A	125	54	GA.43A	BA.46A	1,2
NM.210A	200	54	GA.43A	BA.46A	1,6
NM.215A	330	54	GA.43A	BA.46A	2,5

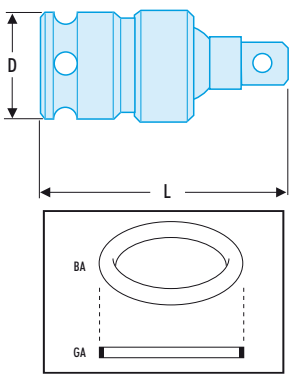


1" drive impact universal joint

NM.240A

• For your safety, use impact universal joints with the appropriate rings and pins.

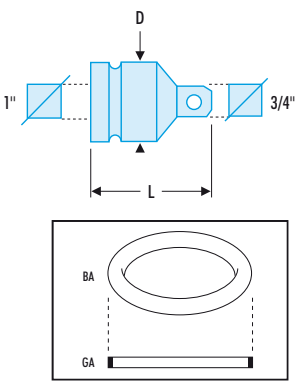
	Ø D mm	L mm	GA	BA	⏢ kg
NM.240A	54	110	GA.43A	BA.46A	2,0



1" to 3/4" impact couplers

• For your safety, use impact couplers with the appropriate rings and pins.

	D mm	L mm	GA	BA	kg
NM.230A	54	75	GA.38	BA.36	0,54
NM.231A	51	154	GA.38	BA.36	1,04

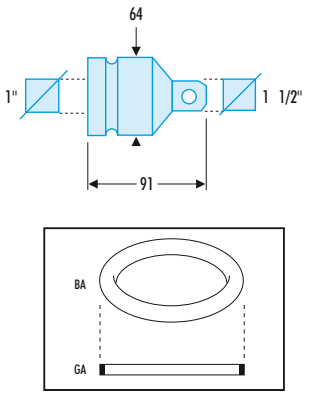


1" to 1 1/2" impact coupler

NM.232A

• For your safety, use impact couplers with the appropriate rings and pins.

	GA	BA	kg
NM.232A	GA.43A	BA.46A	1,5



Facom power tools

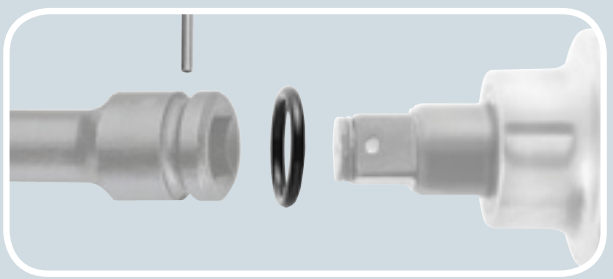
Facom has a wide range of air and portable electric tools, including impact wrenches, ratchets, screwdrivers, drills, grinders, sanders, power chisels, etc.

See section 14 p. 570

Impact sockets and accessories ☐ 1" 1/2

Safety first

- For your safety, use impact sockets and accessories with the appropriate rings and pins.
- Never fit chrome-finished manual sockets or accessories to Impact tools.

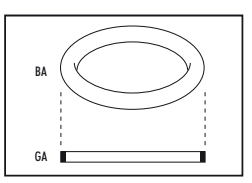


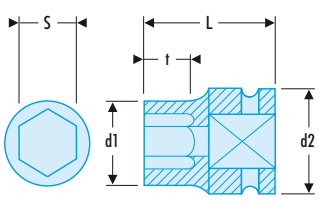
NG.A 1 1/2" drive metric 6-point impact sockets

▷ Performance : to ISO 2725-2, NF ISO 2725-2.

• For your safety, use impact sockets with the appropriate rings and pins.

6	S mm	Ø d1 mm	Ø d2 mm	t mm	L mm	BA	GA	kg
NG.55A	55	87	86	38	90	BA.75A	GA.75A	2,52
NG.60A	60	94	86	38	92	BA.75A	GA.75A	2,87
NG.65A	65	100	86	40	95	BA.75A	GA.75A	3,18
NG.70A	70	106	86	43	100	BA.75A	GA.75A	3,75
NG.75A	75	112	86	45	103	BA.75A	GA.75A	3,93
NG.80A	80	119	86	51	110	BA.75A	GA.75A	4,61
NG.85A	85	125	86	52	118	BA.75A	GA.75A	5,38
NG.90A	90	131	86	52	118	BA.75A	GA.75A	5,65
NG.95A	95	137	95	52	118	BA.85A	GA.84A	6,59
NG.100A	100	144	95	59	125	BA.85A	GA.84A	7,42
NG.105A	105	150	95	59	125	BA.85A	GA.84A	7,83
NG.110A	110	156	95	59	125	BA.85A	GA.84A	8,60
NG.115A	115	162	95	67	135	BA.85A	GA.84A	9,73
NG.120A	120	169	95	67	135	BA.85A	GA.84A	9,48

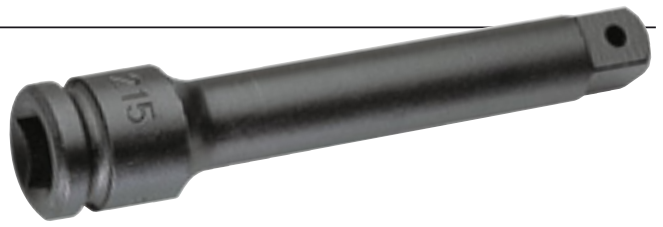


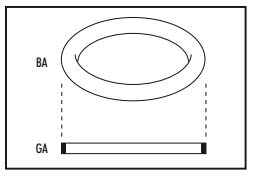


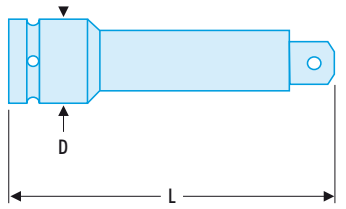
1 1/2" drive impact extensions

• For your safety, use impact extensions with the appropriate rings and pins.

	L mm	D mm	BA	GA	kg
NG.210A	250	86	BA.75A	GA.75A	5,6
NG.215A	330	86	BA.75A	GA.75A	6,8





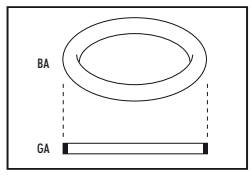


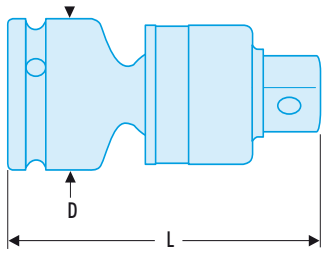
1 1/2" drive impact universal joint

NG.240A

• For your safety, use impact universal joints with the appropriate rings and pins.

	L mm	D mm	GA	BA	kg
NG.240A	181	86	GA.75A	BA.75A	4,2



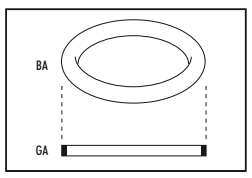


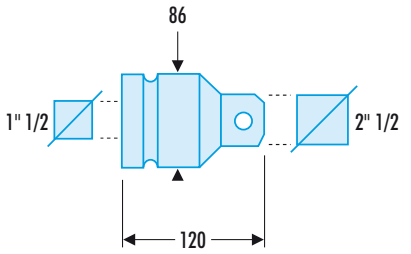
1 1/2" to 2 1/2" impact coupler

NG.232A

• For your safety, use impact universal joints with the appropriate rings and pins.

	L mm	D mm	GA	BA	kg
NG.232A	120	86	GA.75A	BA.75A	3,9



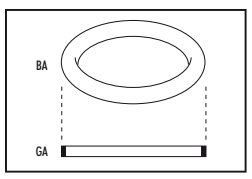


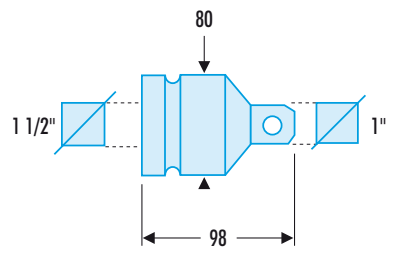
1 1/2" to 1" impact coupler

NG.230A

• For your safety, use impact universal joints with the appropriate rings and pins.

	L mm	D mm	GA	BA	kg
NG.230A	100	86	GA.75A	BA.75A	2,1665





3/4"drive Dynapact manual impact wrench

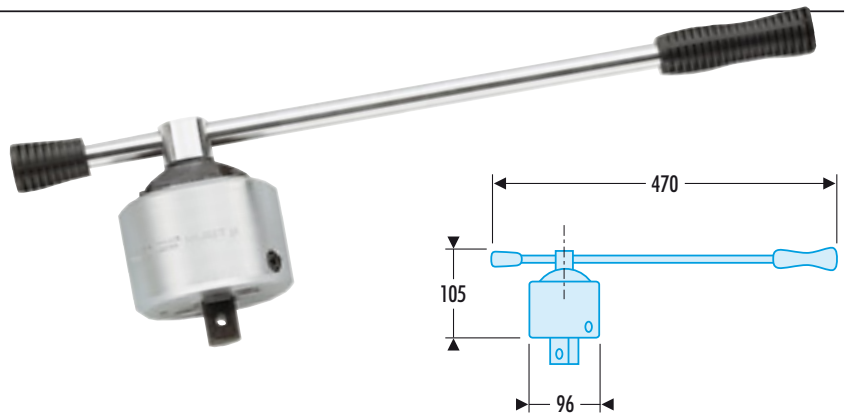
3/4" series

3/4" drive Dynapact manual impact wrench

NK.300

- Stored energy frees or secures very tight fasteners.
- Handle rotation through 60° (approx.) releases torque.
- 10 impacts on 21 mm A/F equate to 1000 N.m.

	Description
NK.300M	Dynapact handle



3/4" drive Dynapact manual impact wrench set

NK.301AE

- Comprising :

- Wrench NK.300 and 16 tools with locking rings and pins.
- Sockets NK.19A - 21A - 22A - 23A - 24A - 26A - 27A - 29A - 30A - 32A
- 34A - 36A - 38A - 41A - 42A.
- 1 extension NK.210A.

- Metal case.

BT.103G : 643 x 224 x 111 mm.

- Tray PL.84A.

⚖ : 16.7 kg.

1" series

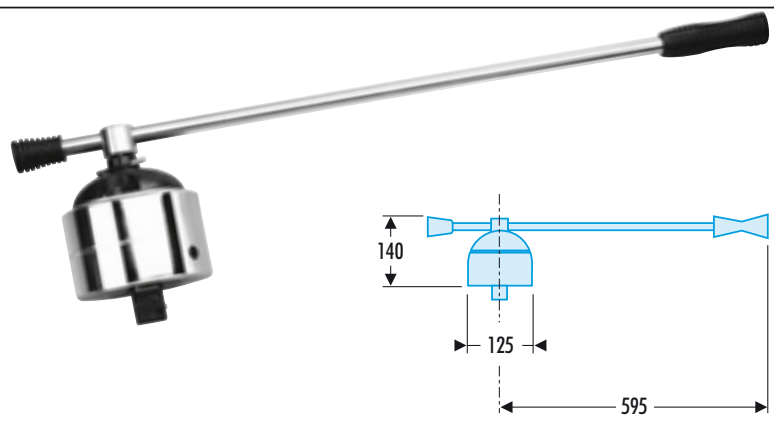
1" drive Dynapact manual impact wrench

NM.300

- Stored energy frees or secures very tight fasteners.
- Handle rotation through 60° (approx.) releases torque.
- 10 impacts on 21 mm A/F equate to 2000 N.m.

⚖ : 10.8 kg.

	Description
NM.300M	Dynapact handle



Impact screwdriver

- *Facom has the solution for quickly and safely releasing seized, rusted or glued fasteners : the impact screwdriver.*

See page 366

Clé
Récepteur
Visualisation
Clé N° F030019
Mesure N° 000177
Couple appliqué 21,0 N.m

6. Torque control

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Section 17 0-series bits
4 mm drive

NEW

NEW

Series R.306-5 click wrenches

Compact torque wrench for confined spaces

Advantages

- Compact
- Reliable
- Safe and precise
- Ergonomic

N 273

Torque control services

Guaranteed peace of mind

Advantages

- Cofrac services
- Calibration certificates
- Torque adjustments
- Tool checking

cofrac ETALONNAGE

N 268

NEW

Radio-frequency torque transmission

Advantages

- Identification of correct and incorrect torques
- Total traceability of data
- Production process control

easotork

N 284

Torque wrenches

Selection guide

To find the right wrench for your application :

① Choose the type of application ② Choose the torque-setting method

①	VERNIER : VARIABLE TORQUE ADJUSTMENT						
②	5° RELEASE ANGLE					VISUAL AND AUDIBLE INDICATION	MANUAL RESET
③	50,000 cycles. +/- 4 % 9x12, 14x18, Ø30	50,000 cycles. -/+ 4 % 20x7	50,000 cycles. +/- 4 % 9x12, 14x18, lbf.in or lbf.ft	25,000 cycles. +/- 4 % Fixed ratchet	25,000 cycles. +/- 4 % 9x12, 14x18	15,000 cycles. +/- 4 % Ø30	100,000 cycles. +/- 6 % 20x7, Fixed drive
④	306D	306R	306U	208	208D	200	203

TIGHTENING TORQUE IN Nm

0 · 0.05 · 0.1 · 0.5 · 1 · 5 · 10 · 50 · 100 · 200 · 300 · 500 · 1000 · 1500 · 2000 · 2500

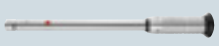
- R.306-25D : 5 – 25
- R.304DA : 1 – 5
- J.306-50D : 10 – 50
- S.306-100D : 20 – 100
- S.306-200D : 40 – 200
- S.306-350D : 70 – 350
- K.315DA : 120 – 600
- K.325DA : 200 – 1000
- S.306-100R : 20 – 100
- S.306-200R : 40 – 200
- S.306-350R : 70 – 350
- R.306U : 4,52 – 22,6
- J.306U : 22.6 – 113
- S.306U : 68 – 339
- R.208-25 : 5 – 25
- J.208-50 : 10 – 50
- S.208-100 : 20 – 100
- S.208-340 : 60 – 340
- S.208-200 : 40 – 200
- J.208-50D : 10 – 50
- S.208-100D : 20 – 100
- S.208-340D : 60 – 340
- S.208-200D : 40 – 200
- K.200DB : 180 – 900
- K.202DB : 300 – 1500
- M.200DB : 500 – 2500
- R.203DA : 6 – 36
- J.203DA : 20 – 100
- S.203DA : 40 – 200

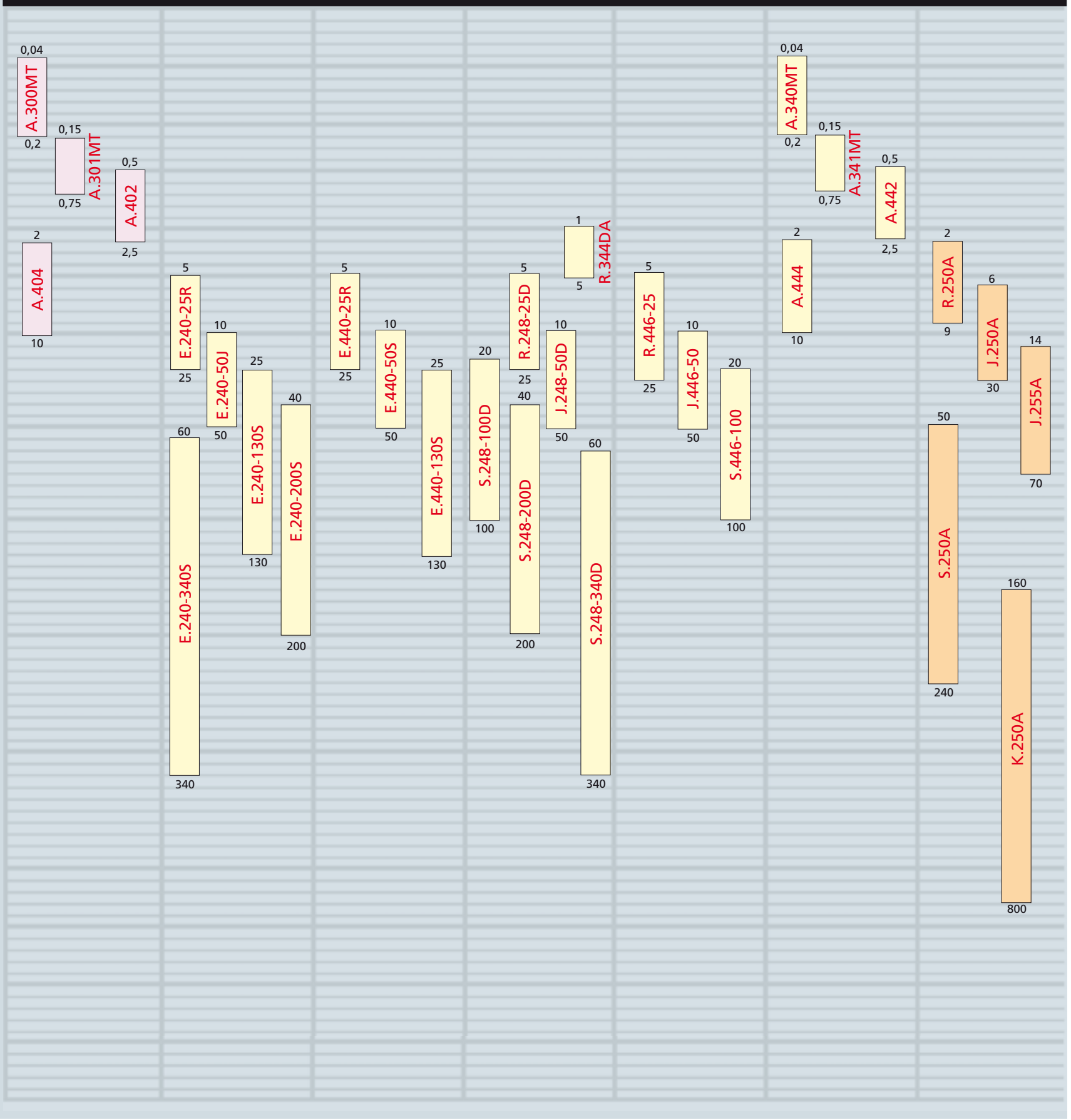
Selection guide

③ Choose its characteristics
(Number of cycles, accuracy, end fitting)

④ Choose the torque range

See the accessory selection guide on page 265

	NON VERNIER : REPETITIVE TIGHTENING TO THE SAME TORQUE					TORQUE READING ①
RELEASE	ELECTRONIC + TRACEABILITY		MECHANICAL		RELEASE	DIAL ②
	5° "CLICK"	20° "BREAK"	5° "CLICK"	20° "BREAK"		
100,000Cycles +/- 6 % ⎔ 4 mm, 1/4"	100,000 cycles. +/- 4 % 9x12, 14x18	100,000 cycles. +/- 4 % 9x12, 14x18	100,000 cycles. +/- 4 % 9x12, 14x18	50,000 cycles. +/- 8 % 9x12, 14x18,	100,000 cycles. +/- 6 % ⎔ 4 mm, 1/4"	20,000 cycles. +/- 4 % Fixed drive ③
						④
A.400 / A.300MT	E.240	E.440	248	446	A.440 / A.340MT	250



Torque control guide

Tightening torque and tensile load

- Application of the correct force (tensile load) is essential for a reliable assembly :
- under-tight fasteners can work loose.
- over-tight fasteners may distort components to be connected; , or shear the fastener.
- Tensile load depends on tightening torque applied to the fastener and the friction coefficient.

Tensile load (Fo)

The force in Newtons (N) which maintains pressure contact between assembled components.

Tightening torque (Cs)

The product of a force and the leverage length at which it is applied : Torque (N.m) = Force (in Newtons) x length (in metres).

Tightening torque table :

Torque values are given for 85 % fastener yield strength (documentation E 25-030).

1. Friction coefficient

Choose the appropriate table according to type of fasteners used (0.10, 0.15, or 0.20).
Example : μ = 0.10.

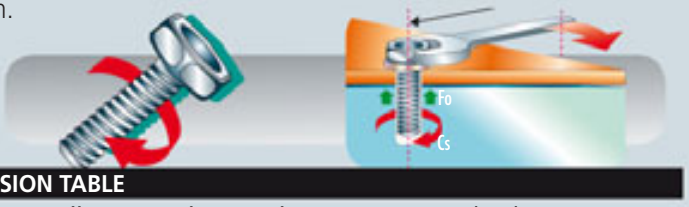
2. Fastener grade

The grade of a fastener denotes its quality (best is 12.9).

Check the appropriate column for the fasteners used.
Example : fastener dia. 10, fastener grade 8.8

3. Tightening torque (Cs).

Torque values are listed in Newton-meters (Nm) for each type of fastener. In the example given, the fastener would be tightened to a torque of 36 Nm.



CONVERSION TABLE

The internationally accepted unit is the Newton-metre (Nm).

1. To convert Nm

- Newton-metres to Kilogramme-force metres : 1 Nm = 0.102 kgf.m
- Newton-metres to Pound-force feet : 1 Nm = 0.738 lbf.ft
- Newton-metres to Pound-force inches : 1 Nm = 8.851 lbf.in
- Newton-metres to Ounce-force inches : 1 Nm = 141.61 ozf.in

2. To convert kgf.m

- Kilogramme-force metres to Newton-metres : 1 kgf.m = 9.81 Nm
- Kilogramme-force metres to Pound-force feet : 1 kgf.m = 7.23 lbf.ft
- Kilogramme-force metres to Pound-force inches : 1 kgf.m = 86.8 lbf.in

3. To convert lbf.ft

- Pound-force feet en Newton-metres : 1 lbf.ft = 1.35 Nm
- Pound-force feet to Kilogramme-force metres : 1 lbf.ft = 0.138 kgf.m
- Pound-force feet to Pound-force inches : 1 lbf.ft = 12 lbf.in

4. To convert lbf.in

- Pound-force inches to Newton-metres : 1 lbf.in = 0.1129 Nm
- Pound-force inches to Kilogramme-force metres : 1 lbf.in = 0.0115 kgf.m
- Pound-force inches to Pound-force feet : 1 lbf.in = 0.083 lbf.ft
- Pound-force inches to Ounce-force inches : 1 lbf.in = 16 ozf.in

μ = 0.10 *tightening torques for phosphated or galvanised fasteners with full lubrication (μ = average friction coefficient)*

ISO 272			Steel fastener grades to ISO 898-1													
			5,6		5,8		6,8		8,8*		9,8**		10,9		12,9	
d mm	ISO mm	mm	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo
1,6**	0,35	3,2	0,060	260	0,084	364	0,096	416	0,128	555	0,144	624	0,189	815	0,221	954
2**	0,40	4	0,126	432	0,177	604	0,202	690	0,270	921	0,303	1 036	0,396	1 352	0,463	1 582
2,5**	0,45	5	0,261	718	0,365	1 006	0,417	1 150	0,556	1 533	0,626	1 724	0,82	2 251	0,96	2 634
3	0,50	5,5	0,44	1 077	0,62	1 508	0,71	1 724	0,95	2 298	1,09	2 586	1,40	3 376	1,64	3 951
4	0,70	7	1,03	1 868	1,44	2 615	1,65	2 988	2,20	3 985	2,49	4 484	3,23	5 853	3,78	6 849
5	0,80	8	2,03	3 053	2,85	4 275	3,25	4 885	4,34	6 514	4,92	7 335	6,3	9 568	7,4	11 196
6	1	10	3,53	4 310	4,95	6 034	5,6	6 896	7,5	9 195	8,53	10 336	11	13 506	12,9	15 805
8	1,25	13	8,5	7 904	11,9	11 066	13,6	12 647	18,2	16 863	20,63	18 968	26	24 768	31	28 984
10	1,50	16	16,8	12 580	23	17 612	27	20 128	36	26 838	41	30 197	52	39 418	61	46 128
12	1,75	18	29	18 337	40	25 672	46	29 339	62	39 119	70	44 022	91	57 457	106	67 236
14	2	21	46	25 175	65	35 245	74	40 280	99	53 707	111	60 251	145	78 882	170	92 309
16	2	24	71	34 597	100	48 436	115	55 356	153	73 808	173	83 165	225	108 406	263	126 858
18	2,5	27	99	42 094	139	58 932	159	67 351	220	92 440			313	131 897	366	154 348
20	2,5	30	140	54 059	196	75 682	225	86 494	311	119 003			440	169 385	515	198 216
22	2,5	34	192	67 511	269	94 515	307	108 017	424	148 374			602	211 534	704	247 540
24	3	36	241	77 845	338	108 983	387	124 552	534	171 437			758	243 914	887	285 432
27	3	41	355	102 393	498	143 350	569	163 829	784	225 110			1 114	320 832	1 304	375 442
30	3,5	46	483	124 491	677	174 287	773	199 185	1 067	274 030			1 515	390 072	1 773	456 467
33	3,5	50	653	155 083	915	217 116	1 046	248 132	1 442	341 347			2 048	485 926	2 397	568 637
36	4	55	841	182 032	1 177	254 845	1 346	291 252	1 855	400 571			2 636	570 369	3 085	667 453
39	4	60	1 088	218 667	1 523	306 135	1 741	349 868	2 399	481 158			3 410	685 159	3 990	801 782
42**	4,5	65	1 348	250 311	1 887	350 435	2 156	400 497	2 965	550 683			4 223	784 306	4 941	917 805
45**	4,5	70	1 681	292 970	2 353	410 158	2 690	468 752	3 698	644 534			5 267	917 973	6 164	1 074 223
48**	5	75	2 032	329 254	2 845	460 956	3 251	526 807	4 470	724 359			6 367	1 031 663	7 450	1 207 265
52**	5	80	2 608	395 006	3 651	553 008	4 172	632 009	5 737	869 013			8 171	1 237 685	9 562	1 448 354
56**	5,5	85	3 255	456 159	4 557	638 622	5 208	729 854	7 161	1 003 549			10 199	1 429 298	11 935	1 672 582
60**	5,5	90	4 032	532 893	5 645	746 050	6 451	852 629	8 871	1 172 365			12 634	1 669 732	14 785	1 953 941
64**	6	95	4 856	602 793	6 798	843 911	7 769	964 470	10 683	1 326 146			15 215	1 888 753	17 805	2 210 243

Grade 8-8a up to d=16 mm, 8-8b above d=118 mm

Torque control guide (continued)

μ = 0.15 *tightening torques for coated or bright fasteners fitted dry (μ = average friction coefficient)*

ISO 272			Steel fastener grades to ISO 898-1													
			5,6		5,8		6,8		8,8*		9,8**		10,9		12,9	
d mm	ISO mm	mm	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo
1,6**	0,35	3,2	0,075	234	0,105	327	0,120	374	0,160	499	0,180	561	0,235	732	0,275	857
2**	0,40	4	0,159	388	0,222	544	0,254	621	0,339	829	0,381	932	0,498	1 217	0,582	1 424
2,5**	0,45	5	0,330	648	0,463	907	0,529	1 036	0,705	1 382	0,793	1 555	1,04	2 030	1,21	2 375
3	0,50	5,5	0,57	972	0,80	1 362	0,91	1 556	1,21	2 075	1,38	2 335	1,79	3 048	2,09	3 567
4	0,70	7	1,30	1 685	1,83	2 359	2,09	2 696	2,78	3 594	3,16	4 044	4,09	5 279	4,79	6 178
5	0,80	8	2,59	2 759	3,62	3 862	4,14	4 414	5,5	5 886	6,27	6 626	8,1	8 645	9,5	10 116
6	1	10	4,49	3 891	6,2	5 448	7,1	6 226	9,5	8 302	10,84	9 334	14,0	12 194	16,4	14 269
8	1,25	13	10,9	7 145	15,2	10 003	17,4	11 432	23	15 242	26,34	17 146	34	22 388	40	26 198
10	1,50	16	21	11 379	30	15 930	34	18 206	46	24 275	52	27 313	67	35 655	79	41 724
12	1,75	18	37	16 594	52	23 231	59	26 550	79	35 401	90	39 835	116	51 995	136	60 845
14	2	21	59	22 789	83	31 905	95	36 463	127	48 618	143	54 570	187	71408	219	83 563
16	2	24	93	31 385	130	43 939	148	50 216	198	66 955	224	75 422	291	98 340	341	115 079
18	2,5	27	128	38 123	179	53 373	205	60 998	283	83 746			402	119 454	471	139 787
20	2,5	30	182	49 039	254	68 655	291	78 463	402	107 941			570	153 657	667	179 811
22	2,5	34	250	61 326	350	85 857	400	98 123	552	134 806			783	192 157	917	224 865
24	3	36	313	70 616	438	98 863	500	112 986	691	155 489			981	221 266	1 148	258 928
27	3	41	463	93 042	649	130 259	741	148 868	1 022	204 577			1 452	291 534	1 700	341 157
30	3,5	46	628	113 045	880	158 263	1 005	180 872	1 387	248 811			1 969	354 209	2 305	414 500
33	3,5	50	854	141 009	1 195	197 412	1 366	225 614	1 884	310 343			2 676	441 828	3 132	517 033
36	4	55	1 096	165 409	1 534	231 573	1 754	264 655	2 418	363 974			3 435	518 282	4 020	606 501
39	4	60	1 424	198 910	1 994	278 474	2 279	318 257	3 139	437 669			4 463	623 253	5 223	729 339
42**	4,5	65	1 760	227 588	2 464	318 624	2 816	364 141	3 872	500 694			5 515	713 110	6 453	834 491
45**	4,5	70	2 203	266 613	3 085	373 258	3 525	426 580	4 847	586 548			6 903	835 386	8 079	977 579
48**	5	75	2 659	299 530	3 722	419 342	4 254	479 248	5 849	658 966			8 330	938 528	9 748	1 098 277
52**	5	80	3 425	359 684	4 795	503 558	5 480	575 495	7 335	791 306			10 731	1 127 011	12 558	1 318 843
56**	5,5	85	4 270	415 172	5 978	581 240	6 832	664 275	9 394	913 378			13 379	1 300 871	15 656	1 522 296
60**	5,5	90	5 306	485 416	7 428	679 583	8 490	776 666	11 673	1 067 916			16 625	1 520 971	19 455	1 779 860
64**	6	95	6 382	548 969	8 935	768 556	10 212	878 350	14 041	1 207 731			19 998	1 720 102	23 402	2 012 885

μ = 0.20 *tightening torques for black or galvanised fasteners with minimal lubrication (as supplied) (μ = AVERAGE friction coefficient)*

ISO 272			Steel fastener grades to ISO 898-1													
			5,6		5,8		6,8		8,8*		9,8**		10,9		12,9	
d mm	ISO mm	mm	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo	Cs	Fo
1,6**	0,35	3,2	0,086	210	0,120	294	0,137	335	0,183	447	0,206	503	0,269	657	0,315	769
2**	0,40	4	0,183	349	0,256	488	0,293	558	0,390	744	0,439	837	0,573	1 093	0,671	1 279
2,5**	0,45	5	0,383	582	0,536	815	0,612	931	0,816	1 242	0,918	1 397	1,20	1 824	1,40	2 134
3	0,50	5,5	0,66	874	0,92	1 224	1,06	1 399	1,41	1 866	1,60	2 099	2,07	2 740	2,43	3 207
4	0,70	7	1,51	1 514	2,11	2 120	2,42	2 422	3,22	3 230	3,66	3 635	4,74	4 744	5,5	5 552
5	0,80	8	3,00	2 481	4,20	3 473	4,81	3 970	6,4	5 293	7,27	5 958	9,4	7 774	11,0	9 098
6	1	10	5,2	3 498	7,2	4 893	8,3	5 598	11,1	7 464	12,57	8 392	16,3	10 962	19,1	12 828
8	1,25	13	12,6	6 426	17,7	8 997	20	10 283	27	13 710	30,62	15 423	39	20 137	46	23 565
10	1,50	16	25	10 238	35	14 334	40	16 382	53	21 843	61	24 575	78	32 082	92	37 542
12	1,75	18	43	14 934	60	20 908	69	23 895	92	31 860	105	35 849	136	46 795	159	54 760
14	2	21	69	20 514	97	28 719	111	32 822	148	43 763	167	49 142	218	64 277	255	75 218
16	2	24	108	28 280	152	39 592	174	45 248	232	60 331	262	67 944	341	88 611	399	103 694
18	2,5	27	149	34 324	209	48 054	239	54 919	330	75 421			469	107 549	549	125 856
20	2,5	30	213	44 188	298	61 863	341	70 700	471	97 253			667	138 456	781	162 023
22	2,5	34	293	55 298	411	77 418	470	88 478	648	121 574			920	173 269	1 077	202 762
24	3	36	366	63 630	513	89 083	586	101 809	809	140 084			1 148	199 376	1 343	233 313
27	3	41	544	83 910	762	117 474	871	134 257	1 201	184 517			1 706	262 920	1 997	307 672
30	3,5	46	737	101 914	1 032	142 679	1 180	163 062	1 628	224 292			2 311	319 331	2 704	373 685
33	3,5	50	1 004	127 210	1 406	178 094	1 607	203 536	2 216	279 953			3 148	398 593	3 684	466 438
36	4	55	1 288	149 174	1 803	208 844	2 060	238 679	2 840	328 236			4 036	467 413	4 723	546 973
39	4	60	1 677	179 487	2 348	251 282	2 683	287 179	3 697	394 919			5 255	562 393	6 150	658 119
42**	4,5	65	2 070	205 323	2 898	287 452	3 312	328 516	4 554	451 710			6 486	643 344	7 590	752 849
45**	4,5	70	2 596	240 641	3 635	336 897	4 154	385 025	5 712	529 410			8 136	754 008	9 520	882 350
48**	5	75	3 130	270 321	4 383	378 449	5 009	432 514	6 887	594 706			9 809	847 006	11 478	991 177
52**	5	80	4 041	324 763	5 657	454 668	6 465	519 620	8 889	714 478			12 661	1 017 590	14 816	1 190 797
56**	5,5	85	5 034	374 739	7 048	524 635	8 054	599 582	11 075	824 426			15 773	1 174 182	18 458	1 374 043
60**	5,5	90	6 266	438 337	8 772	613 672	10 026	701 340	13 785	964 342			19 634	1 373 457	22 976	1 607 237
64**	6	95	7 533	495 676	10 546	693 947	12 052	793 082	16 572	1 090 488			23 603	1 553 119	27 620	1 817 480

** Grade 8-8a up to d=16 mm, 8-8b above d=118 mm*

Cofrac services provided by Facom

FACOM'S COFRAC-ACCREDITED LABORATORY IS YOUR PARTNER

- *For accurate torquing.*
- *For calibrating and regularly checking your tools in accordance with ISO requirements.*
- *For mutually recognised validity of tool calibration and inspection with European and other countries based on multilateral or bilateral recognition agreements (EA ; ILAC).*
- *For relating your tools back to the national and international (SI) system of units.*

1. Calibration certificate plus COFRAC declaration of conformity (3 or 10 points)

For FACOM graduated tools or other makes. Within the 0.04 Nm to 5000 Nm accreditation range according to ISO 6789.

- Direct reading torque wrenches (type 1)
  - Direct reading (type 1)
  - Vernier (type 2)
  - Electronic (type 1)

- Vernier torque drivers 0.04 Nm to 12 Nm

2. Setting to the required torque with Calibration certificate and COFRAC declaration of conformity (1 point)

Within the 0.04 Nm to 3000 Nm accreditation range according to ISO 6789

- Non-vernier click torque wrenches (type 2) 1 Nm to 350 Nm

- Non-vernier torque drivers 0.04 Nm to 12 Nm

3. Calibration certificate plus COFRAC declaration of conformity.

For FACOM torque testers (please consult us for other makes)
Within the 0.04 Nm to 5000 Nm accreditation range according to ISO 6789

- Electronic type E.4000 and E.5000
  - 0.1 Nm to 3,000 Nm

- Mechanical type CD
  - 12 Nm to 500 Nm

- Mechanical type CDS
  - 0.05 Nm to 12 Nm

Facom services

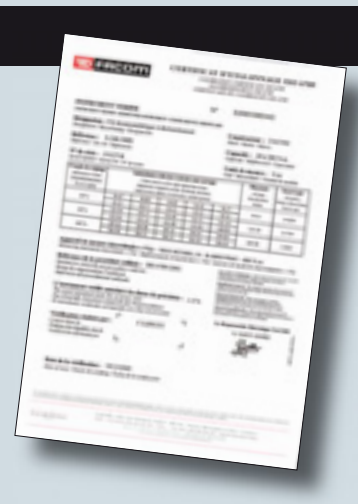
FACOM TORQUE CONTROL SERVICES

The Facom Laboratory is linked to the national calibration standards and provides the following services as required by ISO 6789 and its own quality assurance procedures :

1. Facom 3-point calibration certificate

According to ISO 6789 (3 points at 20 %, 60 %, 100 %)

- Torque wrenches 0.04 Nm to 3000 Nm
  - Direct reading
  - Vernier
  - Electronic
- Vernier torque drivers 0.04 Nm to 12 Nm



2. Facom 10-point calibration certificate

- Torque wrenches 0.04 Nm to 3000 Nm
  - Direct reading
  - Vernier
  - Electronic
- Vernier torque drivers 0.04 Nm to 12 Nm

3. Setting to the required torque plus Facom calibration certificate (1 point)

- Click torque wrenches (type 2) 0.04 Nm to 350 Nm

- Non-vernier torque drivers 0.04 Nm to 12 Nm

Additional services

COFRAC SERVICES PROVIDED BY FACOM

FACOM wrenches

Reference	Description	Measuring range
CVC.RJS	Calibration certificate plus COFRAC declaration of conformity (3 points). Facom graduated tools	0,04 N.m to 360 N.m
CVC.KM	Calibration certificate plus COFRAC declaration of conformity (3 points). Facom graduated tools	360 N.m to 3000 N.m
CEC10.RJS	COFRAC calibration certificate (10 points). Facom graduated tools	0,04 N.m to 360 N.m
CEC10.KM	COFRAC calibration certificate (10 points). Facom graduated tools	360 N.m to 3000 N.m
PRER.CO	Presetting plus Calibration certificate plus COFRAC declaration of conformity (1 point).	0,04 N.m to 3000 N.m
CEC11	COFRAC calibration certificate. Facom torque meter, 1 direction	0,04 N.m to 1000 N.m
CEC12	COFRAC calibration certificate. Facom torque meter, 2 directions	0,04 N.m to 1000 N.m
CEC21	COFRAC calibration certificate. Facom torque meter, 1 direction	1000 N.m to 5000 N.m
CEC22	COFRAC calibration certificate. Facom torque meter, 2 directions	1000 N.m to 5000 N.m
CEC31	COFRAC calibration certificate. Facom E.5000 torque meter, 1 direction	10 N.m to 1000 N.m
CEC32	COFRAC calibration certificate. Facom E.5000 torque meter, 2 directions	10 N.m to 1000 N.m

Non-FACOM wrenches

Reference	Description	Measuring range
CVCA1	Calibration certificate plus COFRAC declaration of conformity (3 points). Non-Facom graduated tools	0,04 N.m to 360 N.m
CVCA2	Calibration certificate plus COFRAC declaration of conformity (3 points). Non-Facom graduated tools	360 N.m to 3000 N.m
CEC10.A1	COFRAC calibration certificate (10 points). Non-Facom graduated tools	0,04 N.m to 360 N.m
CEC10.A2	COFRAC calibration certificate (10 points). Non-Facom graduated tools	360 N.m to 3000 N.m
PRER.CO	Presetting plus Calibration certificate plus COFRAC declaration of conformity (1 point).	0,04 N.m to 3000 N.m
CECA11	COFRAC calibration certificate. Non-Facom torque meter, 1 direction	0,04 N.m to 1000 N.m
CECA12	COFRAC calibration certificate. Non-Facom torque meter, 2 directions	0,04 N.m to 1000 N.m
CECA21	COFRAC calibration certificate. Non-Facom torque meter, 1 direction	1000 N.m to 5000 N.m
CECA22	COFRAC calibration certificate. Non-Facom torque meter, 2 directions	1000 N.m to 5000 N.m

FACOM SERVICES

FACOM wrenches

Reference	Description	Range of measurement
CEF3.RJS	3-point calibration certificate. FACOM graduated tools (ISO 6789)	0,04 N.m to 360 N.m
CEF3.KM	3-point calibration certificate. FACOM graduated tools (ISO 6789)	360 N.m to 3000 N.m
CEF10.RJS	10-point calibration certificate. FACOM graduated tools (Facom procedure)	0,04 N.m to 360 N.m
CEF10.KM	10-point calibration certificate. FACOM graduated tools (Facom procedure)	360 N.m to 3000 N.m
PRER.F	Presetting plus 1-point FACOM calibration certificate (ISO 6789)	0,04 N.m to 3000 N.m
RVSERT	Crimping plier inspection report (Facom procedure)	15 N.m to 380 N.m

Non-FACOM wrenches

Reference	Description	Range of measurement
CVA1	3-point calibration certificate. Facom graduated tools (ISO 6789)	0,04 N.m to 360 N.m
CVA2	3-point calibration certificate. Facom graduated tools (ISO 6789)	350 N.m to 3000 N.m

Series 306

"HIGH PERFORMANCE" click wrenches

ACCURATE, EVEN UNDER INTENSIVE USE

High performance

- *Intensive use : reliability of mechanism tested to 50,000 cycles.*
- *Durable accuracy : remains within ISO 6789 tolerances after more than 5,000 cycles.*
- *Accuracy set at +/- 2 % ex works.*

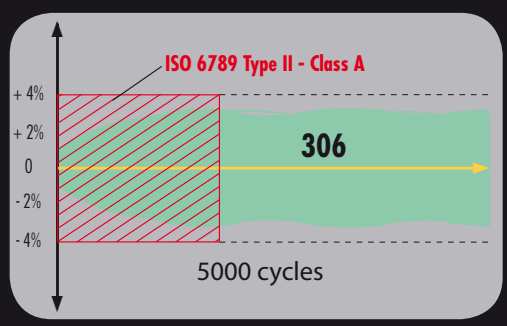
Safe

- *Accurate, tamper-proof vernier. Easy to read and set for error-free adjustment.*
- *Automatically locking torque adjustment. No risk of accidental release.*

Ergonomic

- *Ergonomic handle*
- *Increased length for improved torque transfer and accuracy.*
- *Hanging ring for storage.*

Performance exceeds
ISO 6789
ISO 6789 Type II - Class A



"High performance" click wrenches

306A Click wrenches with removable ratchet

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.
• Accuracy ex works : +/- 2 % except :
- R.306-25D, K.315DA, K.325DA : +/- 4 %.
- R.304DA : +/- 6 %.
• Reliability of mechanism : 50,000 cycles (wrenches to 200 Nm).
• For use with 9x12, 14x18 and ∅ 30 mm.
• One-way wrench convertible to two-way by inverting accessories.
• Numbered and supplied with an ISO 6789 calibration certificate.
• Set supplied in a plastic box with ratchet pivot handle (except R.306A25, R.301A).

	Capacity N.m	End fitting	Graduation N.m	Set contents			Dimensions wrench only		Dimensions including case		
				Wrench	Ratchet	Pivot knob	L (mm)	ΔΔ(kg)	Case	L (mm)	ΔΔ(kg)
R.301A	1-5	9 x 12	0,05	R.304DA	R.372	-	185	0,290	BP.102	205	0,58
R.306A25	5 - 25	9 x 12	0,10	R.306-25D	R.372	-	271	0,45	BP.D1	352	0,98
J.306A50	10 - 50	9 x 12	1,00	J.306-50D	J.372	S.305P	357	0,93	BP.D2	572	1,73
J.306A100	20 - 100	9 x 12	1,00	S.306-100D	J.372	S.305P	437	1,05	BP.D2	572	1,94
S.306A100	20 - 100	9 x 12	1,00	S.306-100D	S.372	S.305P	437	1,05	BP.D2	572	1,95
S.306A200	40 - 200	14 x 18	1,00	S.306-200D	S.382	S.305P	515	1,26	BP.D3	807	2,53
S.306A350	70 - 350	14 x 18	2,00	S.306-350D	S.382	S.305P	725	1,79	BP.D3	807	3,06
K.312A	120-600	14 x 18	2,00	K.315DA	K.382	-	990	5,160	BP.D600	1233	8,80
K.322	200-1000	Ø 30	4,00	K.325D	K.151A	-	1280	5,9	BP.D1000	1418	13,50

306D Click wrenches without accessories

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.
• Accuracy ex works : +/- 2 % except :
- R.306-25D, K.315DA, K.325DA : +/- 4 %.
- R.304DA : +/- 6 %.
• Reliability of mechanism : 50,000 cycles (wrenches to 200 Nm).
• For use with 9x12, 14x18 or ∅ 30 mm.
• One-way wrench convertible to two-way by inverting accessories.
• Numbered and supplied with an ISO 6789 calibration certificate.
• Supplied in a plastic box.

	Capacity N.m	End fitting	Graduation N.m	Dimensions wrench only		Dimensions including case		
				L (mm)	ΔΔ(kg)	Case	L (mm)	ΔΔ(kg)
R.304DA	1-5	9 x 12	0,05	185	0,290	BP.102	205	0,50
R.306-25D	5-25	9 x 12	0,10	271	0,45	BP.D1	352	0,90
J.306-50D	10-50	9 x 12	1,00	357	0,93	BP.D2	572	1,54
S.306-100D	20-100	9 x 12	1,00	437	1,05	BP.D2	572	1,75
S.306-200D	40-200	14 x 18	1,00	515	1,26	BP.D3	807	2,22
S.306-350D	70-350	14 x 18	2,00	725	1,79	BP.D3	807	2,75
K.315DA	120-600	14 x 18	2,00	945	4,6	BP.D600	1233	8,80
K.325DA	200 - 1000	∅ 30	4,00	1280	5,9	BP.D1000	1418	11,77

Click wrench with fixed ratchet

R.306-5

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.
- Accuracy ex works : +/- 6 %.
- Reliability of mechanism : 50,000 cycles.
- Compact wrench for confined spaces.
- 72-tooth ratchet (5° increments) for use with sockets.
- One-way wrench.
- Numbered and supplied with an ISO 6789 calibration certificate.

	Capacity N.m	◻	Graduation N.m	L mm	Dimensions including case L (mm)	Case	⚖ kg
R.306-5	1-5	1/4	0,05	197	205 x 120	BP.102	0,30

306R Click wrenches with 20x7 fitting

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.
- Accuracy ex works : +/- 2 %.
- Reliability of mechanism : 50,000 cycles (wrenches to 200 Nm).
- For use with 20x7 end accessories.
- One-way wrench convertible to two-way by inverting accessories.
- Numbered and supplied with an ISO 6789 calibration certificate.
- Supplied in a protective plastic tube.

	Capacity N.m	End fitting	Length mm	Graduation N.m	⚖ kg
S.306-100R	20-100	20 x 7	420	1	1,04
S.306-200R	40-200	20 x 7	510	1	1,30
S.306-350R	70-350	20 x 7	698	2	1,89

306U Click wrenches with dual lbf.in or lbf.ft and N.m graduation.

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.
- Accuracy ex works : ± 2 %.
- Reliability of mechanism : 50,000 cycles.
- Two-way wrenches graduated in lbf.in or lbf.ft and N.m.
- Reversible ratchet.
- All-metal wrench with knurled metal handle.
- Numbered and supplied with an ISO 6789 calibration certificate.
- Supplied in a plastic box (with ratchet).

	Capacity lbf.in	Capacity lbf.ft	End fitting	1 graduation lbf. in	1 graduation lbf.ft	Length mm	Case	◻ mm	⚖ kg
R.306U	40-200	-	9 x 12	1	-	285	BP.D1	1/4	0,46
J.306U	200-1000	-	9 x 12	5	-	379	BP.D2	3/8	1,05
S.306U	-	30-250	14 x 18	-	1	600	BP.D3	1/2	1,63

306 series wrench sets

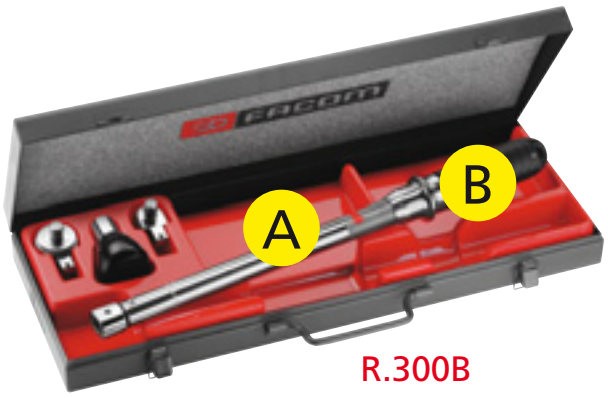
Set contents :

Each modular set comes in a steel case with one or two empty compartments that can each hold an additional module of sockets or other accessories.

Building a set

1. Check which size modules ("module" column) the set will take, e.g. S.300B takes 2 modules size C (C+C).

2. Choose modules of the correct size. For the S.300B, with 9 x 12 end fittings, one can choose e.g. S.300-2 and J.300-3 (both size C modules). See below.



R.300B

J.300B - J.310B - S.300B

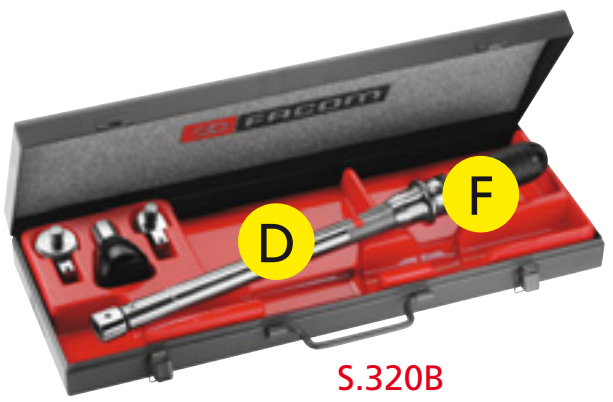
MODULES / mm	A 9 x 5 mm	B 14 x 5 mm	C 15 x 10 mm	
	R.300-1 ☐ 1/4" Sockets 7-8-10-11 13 mm R.209 ⚖ 150 g		J.300-1 ☐ 3/8" Sockets 10-11-13-15 16-17-18-19 J.210 ⚖ 540 g J.300-11 ☐ 3/8" Sockets 10-11-13-15 16-17-18-19 J.210 ⚖ 680 g	S.300-1 ☐ 1/2" Sockets 11-13-15-16 17-18-19-21-22 S.210 ⚖ 850 g S.300-11 ☐ 1/2" Sockets 16-17-18-19 21-22-24-27 S.210 ⚖ 980 g
		R.300-2 9 x 12 Open ends no. 10 : 11-13-15-16-17-18-19 mm ⚖ 350 g	J.300-2 9 x 12 Ring ends no. 12 : 10-11-13-15-16-17-18-19 mm ⚖ 380 g	S.300-2 9 x 12 Ring ends no. 12 : 11-13-15-16-17-18-19 mm ⚖ 350 g
		R.300-3 9 x 12 Ring ends no. 12 : 8-10-11-12-13 mm ⚖ 200 g	J.300-3 9 x 12 Open ends no. 10 : 11-13-15-16-17-18-19 mm ⚖ 380 g	S.300-3 9 x 12 Open ends no. 10 : 8-10-11-12-13 mm ⚖ 200 g
		R.300-4 ☐ 1/4" Hex. bits RT : 3-4-5-6 mm ⚖ 100 g	J.300-4 ☐ 3/8" Hex. bits JT : 5-6-8-10 mm ⚖ 190 g	S.300-4 ☐ 1/2" Hex bits ST : 6-8-10-12 mm ⚖ 330 g

300B Modular sets

• Contents of 300B series modular sets :
- 1 306D series wrench.
- 1 ratchet.
- 1 square drive.
- 1 pivot knob S.305P (except R.300B).
- 1 steel case with storage tray. (2 free compartments for modules).

	Capacity N.m	End fitting	Contents Wrench	Ratchet	Sq.end	Case	Tray	Case	☐ "	Module	⚖ kg
R.300B	5-25	9 x 12	R.306-25D	R.372	R.373	BP.115	PL.141A	322 x 128 x 50	1/4	A+B	1,5
J.300B	10-50	9 x 12	J.306-50D	J.372	J.373	BT.118	PL.140	470 x 175 x 55	3/8	C+C	3,1
J.310B	20-100	9 x 12	S.306-100D	J.372	J.373	BT.118	PL.137	470 x 175 x 55	3/8	C+C	3,3
S.300B	20-100	9 x 12	S.306-100D	S.372	S.373	BT.118	PL.137	470 x 175 x 55	1/2	C+C	3,3
S.310B	40-200	14 x 18	S.306-200D	S.382	S.383	BT.119	PL.138	625 x 175 x 55	1/2	C+E	4,4
S.320B	70-350	14 x 18	S.306-350D	S.382	S.383	BT.120	PL.139	770 x 175 x 55	1/2	D+F	5,3

S.310B



S.320B

MODULES / mm	E 28 x 10 mm	D 24 x 10 mm	F 39 x 10 mm
		S.300-21 ☐ 1/2" Sockets 17-18-19-21-22-24-27-30-32 mm S.210 ⚖ 1300 g	
	S.300-12 14 x 18 Open ends no. 11 : 16-17-18-19-21-22-24-27 mm ⚖ 1280 g	K.300-2 14 x 18 Open ends no. 11 : 22-24-27-30-32 mm ⚖ 1020 g	S.300-22 14 x 18 Open ends no. 11 : 17-18-19-21-22-24-27-30-32 mm ⚖ 1,580 g
	S.300-13 14 x 18 Ring ends no. 13 : 16-17-18-19-21-22 -24-27 mm ⚖ 1,140 g		S.300-23 14 x 18 Open ends no. 13 : 17-18-19-21-22-24-27-30-32 mm ⚖ 1,440 g K.300-3 14 x 18
	S.300-14 ☐ 1/2" Hex. bits ST : 8-10-12-14 mm ⚖ 400 g		S.300-24 ☐ 1/2" Hex bits ST : 8-10-12-14-17 mm ⚖ 540 g

Series 208

"MULTI-PURPOSE" click wrench

THE COMPACT WRENCH FOR ALL APPLICATIONS

Heavy-duty

- *reliability of mechanism tested to 25,000 cycles.*
- *Resistant to all hydrocarbons for use in garages or industrial environments.*

Compact

- *Shorter and lighter for working in congested spaces.*
- *Fixed ratchet version with a smaller head.*

Reliable

- *Accurate to within +/- 4 % in accordance with ISO 6789.*
- *Long-lasting accuracy.*
- *Double (coarse and fine) vernier adjustment*

ISO 6789 Type II - Class A

2 series :

- *With fixed ratchet*

- *With removable ratchet*

"Multi-purpose" click wrenches

208 Click wrenches with fixed ratchet

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.
- Accuracy : +/- 4 %.
- Reliability of mechanism : 25,000 cycles.
- 72-tooth ratchet (5° increments) for use with sockets.
- One-way wrench.
- Touch and sound signals on reaching preset torque.
- Automatic reset.
- Supplied with an ISO 6789 calibration certificate.
- Supplied in a protective plastic tube.

	Capacity N.m	☐ "	Graduation N.m	L mm	⚖ kg
R.208-25	5-25	1/4	0,1	300	0,50
J.208-50	10-50	3/8"	0,5	357	0,90
S.208-100	20-100	1/2"	1	416	1,04
S.208-200	40-200	1/2"	2	479	1,22
S.208-340	60-340	1/2"	2	632	1,54

208D Click wrenches without accessories

▷ ISO 6789.
- Accuracy : +/- 4 %.
- Reliability of mechanism : 25,000 cycles.
- 9x12 or 14x18 end fitting (for ratchets, ring ends and open ends).
- One-way wrench convertible to two-way by inverting accessories.
- Touch and sound signals on reaching preset torque.
- Automatic reset.
- Supplied with an ISO 6789 calibration certificate.
- Supplied in a protective plastic tube.

	Capacity N.m	End fitting	Graduation N.m	L mm	⚖ kg
J.208-50D	10-50	9x12	0,5	337	0,78
S.208-100D	20-100	9x12	1	396	0,92
S.208-200D	40-200	14x18	2	466	1,11
S.208-340D	60-340	14x18	2	618	1,43

208A Click wrenches with removable ratchet

▷ ISO 6789.
- Accuracy : +/- 4 %.
- Reliability of mechanism : 25,000 cycles.
- 9x12 or 14x18 end fitting (for ratchets, ring ends and open ends).
- One-way wrench convertible to two-way by inverting accessories.
- Touch and sound signals on reaching preset torque.
- Automatic reset.
- Supplied with an ISO 6789 calibration certificate.
- Supplied in a protective plastic tube (with ratchet).

	Capacity N.m	End fitting	Graduation N.m	Set contents Wrench	Ratchet	☐ "	L mm	⚖ kg
J.208A50	10-50	9x12	0,5	J.208-50D	J.372V	3/8"	337	0,78
S.208A100	20-100	9x12	1	S.208-100D	S.372V	1/2"	396	0,92
S.208A200	40-200	14x18	2	S.208-200D	S.382V	1/2"	466	1,11
S.208A340	60-340	14x18	2	S.208-340D	S.382V	1/2"	618	1,43

Series 203 Manual reset wrench

THE SIMPLE, HEAVY-DUTY WRENCH

Simple and Reliable

- Strong, dependable wrenches.
- Accurate to within +/- 6 % of the reading in accordance with ISO 6789.
- Numbered and supplied with a calibration certificate.

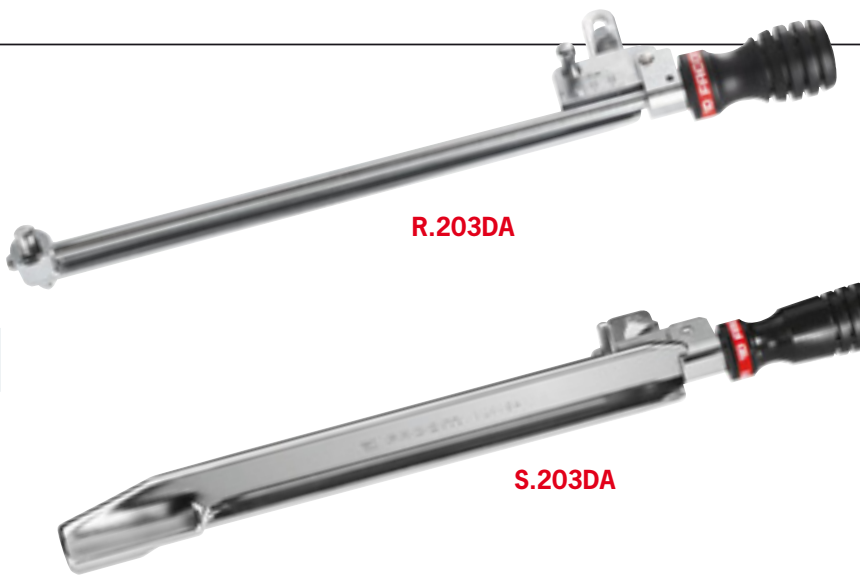
Triple signal

- Release of the rocker when preset torque is reached produces a triple visual, sensory and audible signal.
- Clear graduated scale ensures precise torque settings.
- Scale pointer movement helps to monitor torque increase.

Manual reset wrenches

203DA Manual reset wrenches

- Accuracy : +/- 4 %.
- Wrench R.203A graduated in Nm with fixed square drive
- Wrenches J.203A and S.203A graduated in daNm.



R.203DA

S.203DA

	Capacity daN.m	Case	Length mm	☐ "	1 graduation	⚖ kg
R.203DA	0,6 - 3,6	BP.D5	320	1/4	2,0 N.m	0,3
J.203DA	2,0 - 10,0	BP.D5	440	3/8	0,5 daN.m	0,8
S.203DA	4,0 - 20,0	BP.D5	460	1/2	1,0 daN.m	0,9

203A Manual reset wrenches with removable square drive

▷ ISO 6789, DIN EN 6789, NF EN ISO 6789.

- Accuracy : ± 6 % of reading.
- Wrench R.203A : graduated in Nm.
- Wrenches J.203A and S.203A graduated in daNm.
- Supplied in a plastic storage case with an ISO 6789 calibration certificate.

	Capacity daN.m	Clé	Sq.end Contents	Handle	Case	Length mm	☐ "	1 graduation	⚖ kg
R.203A	0,6-3,6	R.203DA		R.200P	BP.D5	320	1/4	2,0 N.m	0,40
J.203A	2,0-10,0	J.203DA	J.203E	S.200P	BP.D5	440	3/8	0,5 daN.m	0,95
S.203A	4,0-20,0	S.203DA	S.203E	S.200P	BP.D5	460	1/2	1,0 daN.m	1,00

202A Manual reset wrenches with removable ratchet

▷ ISO 6789.
• Accuracy : ± 6 % of reading.
• For ☐ 1/4" radio wrench, see R.203A.
• Supplied in a plastic storage case with an ISO 6789 calibration certificate.

	Capacity N.m	Resolution N.m	Contents Rachet Wrench	Contents Rachet	Case	Length mm	☐ "	kg
J.202A	2-10	0,5	J.203DA	J.152	BP.D5	460	3/8	1,00
S.202A	4-20	1,0	S.203DA	S.152	BP.D5	470	1/2	1,12

214A Extension for 203 series wrenches

• Two or three-fold capacity increase for wrenches J.203DA and S.203DA.
• For use with ratchets 152, end fittings 20 (SJ.214) and 3/4" drive sockets (K.214A).

	Capacity wrench	Length mm	kg
SJ.214	x2	400	0,68
K.214A	x3	860	3,00

205E Modular sets with sockets

▷ ISO 6789, DIN EN 6789, NF EN ISO 6789.
• Each set has a free compartment for an additional module of end accessories.
• See table page 274 for suitable end accessories.
• Supplied with knob R.200P (R.205E) , S.200P (J.205E, S.205E).
• Supplied with extension SJ.214, (except R.205E).
• Supplied in a grey metal box.

	Capacity daN.m	Contents Wrench	Contents Socket module	Case	Tray	mm	☐ "	Module	kg
R.205E	0,6 - 3,6	R.203DA	R.300.1	BT.112G	PL.142	380 x 158 x 50	1/4	B	1,35
J.205E	2 - 10	J.203DA	J.300.11	BT.118	PL.136	470 x 175 x 55	3/8	C	4,26
S.205E	4 - 20	S.203DA	S.300.11	BT.119	PL.135	625 x 175 x 55	1/2	E	4,70

Series 200 High-torque wrench

HIGH-TORQUE WRENCHES

Comfort of use

- Large dial.
- Separate Nm and lbf.ft scales.
- Accurate to within +/- 4 % of the reading in accordance with ISO 6789.
- Light signal on reaching preset torque.

Sturdy

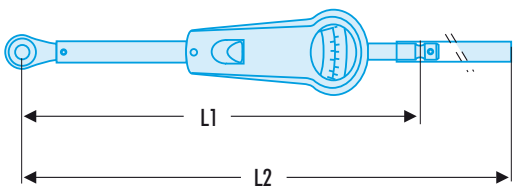
- Large round end fitting ∅ 30 mm.
- Optional use with jack or lifting gear.

High-torque wrenches

Wrenches with ratchet and square drive

▷ ISO 6789.

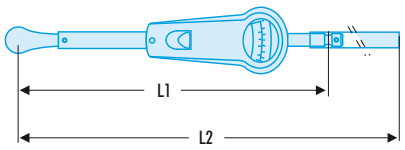
- Numbered and supplied with a calibration certificate.
- Set supplied in a metal case with storage tray 760 x 220 x 140 mm.



	Capacity		☐	Contents				Case	Tray	L1 - L2	⚖
	N.m	lbf.ft	"	Wrench	Ratchet	Sq.end	Handle			mm	kg
K.201B	180 - 900	150 - 650	3/4	K.200DB	K.151A	M.200E	K.200MA	BT.102	PL.549	595 - 1019	7,90
K.203B	300 - 1500	250 - 1100	3/4	K.200DB	K.151A	K.200E	K.202MA	BT.102	PL.549	595 - 1019	8,00
M.201B	500 - 2500	300 - 1800	1"	M.200DB	M.151	M.200EA	-	BT.102	PL.549	724	18,00

Wrenches with square drive

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.
• Numbered and supplied with a calibration certificate.
• Set supplied in a metal case with storage tray 760 x 220 x 140 mm.

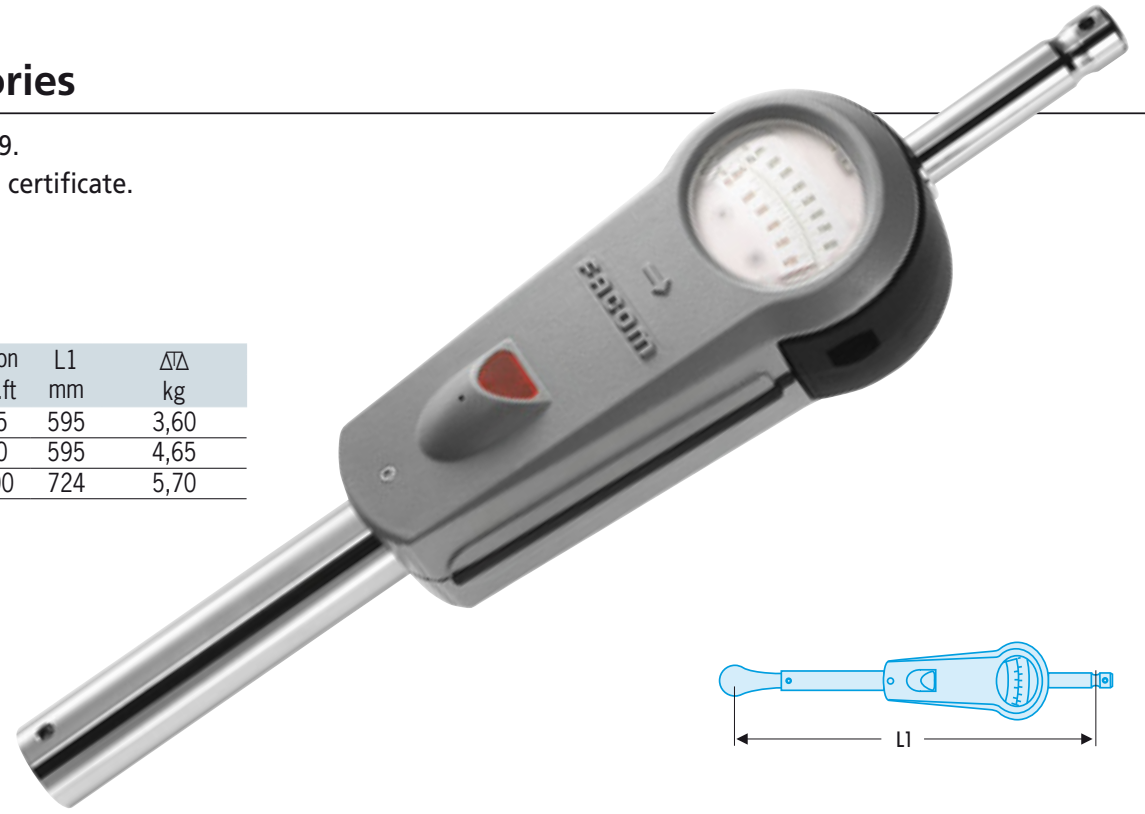


	Capacity		⊠	Contents			Case	Tray	L1 - L2	⚖
	N.m	lbf.ft	"	Wrench	Sq.end	Handle			mm	kg
K.200B	180-900	150-650	3/4	K.200DB	M.200E	K.200MA	BT.102	PL.549	595-1019	6,20
K.202B	300-1500	250-1100	3/4	K.200DB	K.200E	K.202MA	BT.102	PL.549	595-1019	6,30
M.200B	500-2500	300-1800	1	M.200DB	M.200EA	-	BT.102	PL.549	724	13,00

Wrenches without accessories

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.
• Numbered and supplied with a calibration certificate.

	Capacity		1 graduation		L1	⚖
	N.m	lbf.ft	N.m	lbf.ft	mm	kg
K.200DB	180 - 900	150 - 650	25	25	595	3,60
K.202DB	300 - 1500	250 - 1100	50	50	595	4,65
M.200DB	500 - 2500	300 - 1800	100	100	724	5,70



Extension for wrench M.200DB

M.200M

• Telescopic handle gives up to 3m leverage including length of wrench.
• Complete with fasteners.
⚖ : 8.144 kg.

MC–NP series

Torque multipliers

FOR HIGH TIGHTENING AND LOOSENING TORQUES WITHOUT AN EXTERNAL POWER SOURCE

Type MC

- *Compact and lightweight for. awkward spaces.*
- *With stop lever*

Type NP

- *Input torque limiter to protect the mechanism.*
- *Non-return system for increased safety.*
- *Lifetime-lubricated mechanism for ease of maintenance.*
- *Supplied with two reaction arms, one straight and one offset.*

More accurate, safer and more compact

- *Slow, gentle torque application ensures improved accuracy.*
- *Reduced lever arm compared to a high-torque wrench ensures operator safety.*
- *Reduced size allows multipliers to be used where hightorque wrenches cannot reach.*

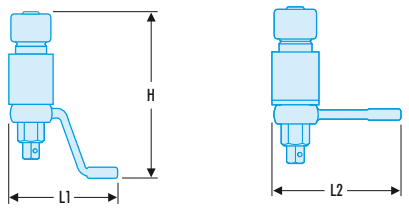
Torque multiplier

NP torque multiplier set

- Powerful tightening and loosening without external power source.
- Input torque limiter for safety.
- Non-return system.
- Torque multipliers are supplied in a case with the following accessories :

- offset reaction arm.
- straight reaction arm.

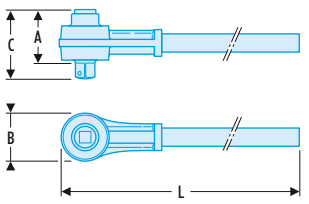
				L1 mm	H mm	L2 mm	Case L x l x h mm	kg
NP.120	NP.250JD	NP.250JC	S.151	200	260	260	370x200x160	6,430
NP.250	NP.250JD	NP.250JC	S.151	200	300	260	370x200x160	9,380
NP.400	NP.400JD	NP.400JC	S.151	270	420	350	440x250x160	19,250
NP.600	NP.400JD	NP.400JC	S.151	270	420	350	440x250x160	19,450



MC Torque multipliers

- Compact, lightweight models suitable for maintenance tasks.
- Supplied in a soft case with stop lever.

	⍁	■	Capacity N.m maxi	A x B x C x L mm	kg
MC.140A	1/2"	3/4"	1400	63 x 90 x 85 x 600	3,2
MC.270A	3/4"	1"	2700	80 x 95 x 113 x 680	5,1



Torque multiplier selection guide

Required input torque : *Input torque = output torque x multiplying factor*

Example : Specified tightening torque : 2000 Nm

Model NP.250 - Input torque = 2,000 x 0.088 = 176 Nm

	A "	B "	Demultiplication	Efficiency	Multiplying factor	Max. input torque Nm	Max. output torque Nm	L mm	Ø mm	kg
MULTIPLIER NP.120	1/2	3/4	1x4	0,87	0,287	340	1200	194	86	6,430
MULTIPLIER NP.250	1/2	1	1x16	0,71	0,088	216	2500	230	86	9,380
MULTIPLIER NP.400	1/2	1-1/2	1x64	0,50	0,032	130	4000	285	114	19,250
MULTIPLIER NP.600	1/2	1-1/2	1x64	0,50	0,032	190	6000	285	114	19,450
MULTIPLIER MC. 140A	1/2	3/4			0,294	412	1400	85	90	3.2
MULTIPLIER MC. 270A	3/4	1			0,294	794	2700	113	95	5.1

Safety first

WARNING : for your safety, use only impact grade sockets and accessories.
Always lock sockets with the appropriate pin and ring.
WARNING : Never use manual or pneumatic impact wrenches with this type of tool.

easotork

Electromechanical wrench
Series E.240 - Series E.440

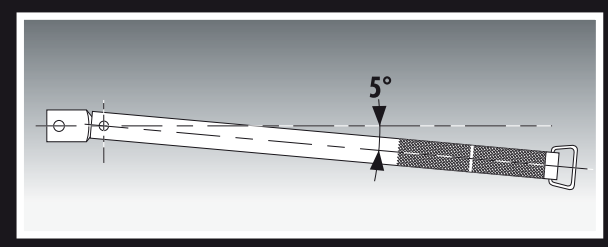
Electromechanical wrench with radio-frequency torque transmission.

High performance

- *Accurate to within +/- 4 % in accordance with ISO 6789.*
- *Long-lasting accuracy (more than 5,000 cycles).*
- *Intensive use : reliability of mechanism tested to 100,000 cycles.*

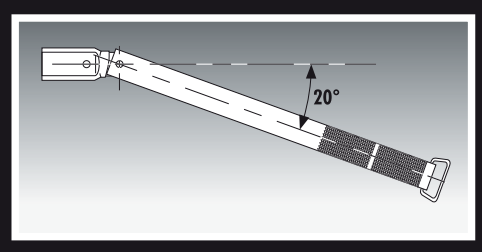
Safe

- *Non-graduated preset torque wrenches for production applications.*
- *Preset with a socket key and a torque meter, no risk of no risk of accidentally altering settings.*



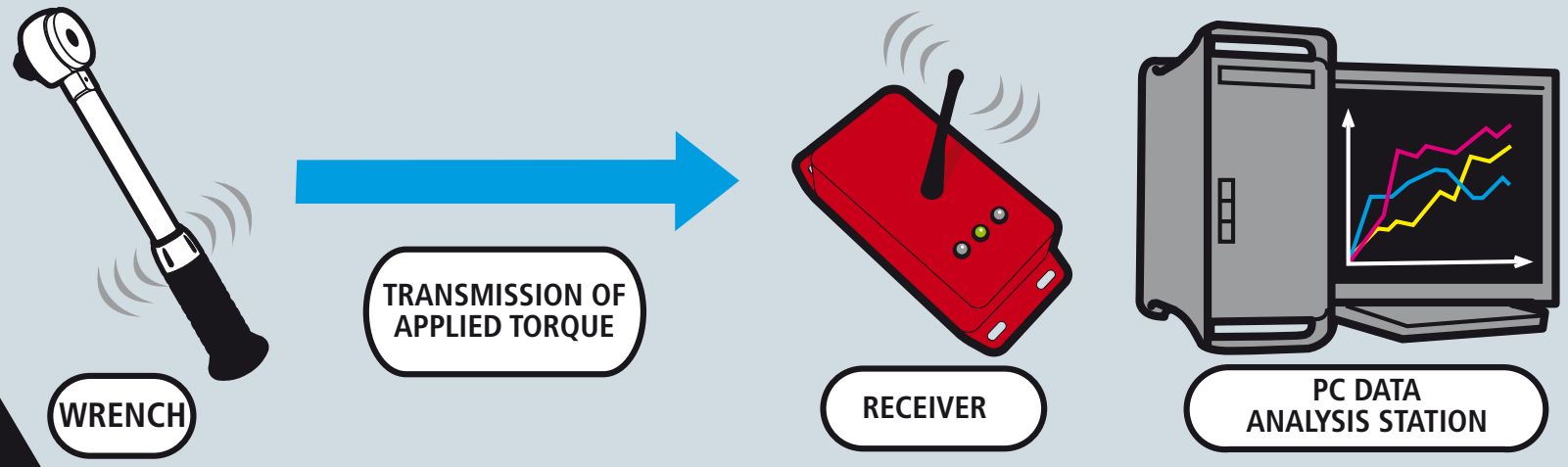
E.240 series

E.440 series



easotork

Identification of correct and incorrect torques



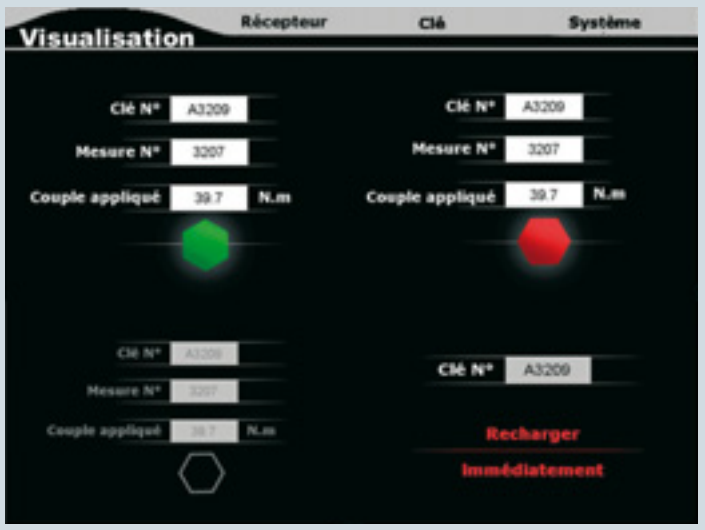
Total traceability of data

- All torques are recorded, the possibility of operator transcription error is eliminated.

Date	Time	Wrench ID	Torque No.	Actual applied torque	Torque	Overtorque
27/01/2007	09:56:08:03	E101156	53412	176,3	OK	No
27/01/2007	09:56:11:35	E101156	53413	181,1	OK	No
27/01/2007	09:56:13:88	E101156	53414	260	NoK	Yes
27/01/2007	09:56:16:42	E101156	53415	178,4	OK	No
27/01/2007	09:56:18:99	E101156	53416	179,5	OK	No
27/01/2007	09:56:21:30	E101156	53417	172,9	OK	No
27/01/2007	09:56:23:40	E101156	53418	178,6	OK	No
27/01/2007	09:56:25:49	E101156	53419	176,4	OK	No
27/01/2007	09:56:27:65	E101156	53420	197,9	NoK	No
27/01/2007	09:56:34:84	E120013	32635	442	NoK	Yes
27/01/2007	09:57:34:12	E120013	32636	250	OK	No
27/01/2007	09:59:51:07	E120013	32637	290	NoK	No
27/01/2007	09:59:53:58	E120013	32638	261,5	OK	No
27/01/2007	09:59:56:07	E120013	32639	231,5	OK	No
27/01/2007	10:00:25:03	E120013	32640	241,5	OK	No
27/01/2007	10:00:27:51	E120013	32641	248,7	OK	No
27/01/2007	10:00:29:94	E120013	32642	238,5	OK	No

Production process control

- LEDs on wrench for operator self-checking.
- Errors can be identified and corrected in real time.



- Simultaneous display of 4 receivers.
- LED colours shown on the screen.
- Readings recorded in an Excel file.
- Wrench, receiver and system settings are configured by. means of special password-protected menus.

Non-vernier adjustable wrenches with radio transmission

E.240 Easotork "click" type wrenches

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.
- Accuracy : +/- 4 %.
- Reliability : 100,000 cycles.
- Real-time radio transmission of applied torque.
- Preset tightening or loosening torque by inverting accessories.
- Non-vernier wrench : preset on a test rig using a socket key, see torque tester range.
- Numbered and supplied with an ISO 6789 calibration certificate.
- Supplied in a plastic box.

	Capacity	Attachement	Dimensions wrench only		Dimensions including case		
	N.m		L (mm)	ΔΔ(kg)	Case	L (mm)	ΔΔ(kg)
E.240-25R	5-25	9x12	347	0,75	BP.D2	585	1,37
E.240-50J	10-50	9x12	417	0,95	BP.D2	585	1,57
E.240-130S	25-130	9x12	450	1,06	BP.D2	585	1,68
E.240-200S	40-200	14x18	515	1,31	BP.D3	805	2,35
E.240-340S	60-340	14x18	587	1,49	BP.D3	805	2,53

	Description
E.240-BAT	Replacement battery kit

E.440 Easotork wide-angle "break" type wrenches

▷ ISO 6789.
- Accuracy : +/- 4 %.
- Reliability : 100,000 cycles.
- Real-time radio transmission of applied torque.
- Preset tightening or loosening torque by inverting accessories.
- Non-vernier wrench : preset on a test rig using a socket key, see torque tester range.
- Numbered and supplied with an ISO 6789 calibration certificate.
- Supplied in a plastic box.

	Capacity	Attachement	Dimensions wrench only		Dimensions including case		
	N.m		L (mm)	ΔΔ(kg)	Case	L (mm)	ΔΔ(kg)
E.440-25R	5-25	9x12	340	0,71	BP.D2	585	1,33
E.440-50J	10-50	9x12	366	0,78	BP.D2	585	1,40
E.440-130S	25-130	9x12	463	1,07	BP.D3	805	2,13

	Description
E.240-BAT	Replacement battery kit

Radio receiver and USB cable

E.240-REC

- Frequency 869 MHz.
- Very sturdy aluminium casing.
- USB, RS232 and PLC outputs.
- For RS232 and PLC output (use receiver power supply E.240.ALI).
- Supplied in a plastic case complete with USB cable and socket key for presetting E.240 and E.440.

	Sizes	ΔΔ g
E.240-REC	230 x 210 x 75 mm	790

	Description
E.240-ALI	Receiver power supply

Calibration software and cable

E.240-CAL

- Windows XP easotork software.
- PC and wrench connection cables.
- Wrench configuration and calibration unit.
- Supplied in plastic case.
- Power supply 9 V battery.

	Sizes	⚖ g
E.240-CAL	230 x 210 x 75 mm	830

Wrench charger

E.240-CHA

- Charger for E.240 and E.440 easotork wrenches.
- 8 V 0.35 mA.

	Sizes	⚖ g
E.240-CHA	160 x 130 x 65 mm	310

Initial equipment kit

E.240-KIT1

- Contains :
- E.240-REC.
- E.240-CAL.
- E.240-CHA.
- Receiver and USB cable
- Calibration software and cable
- 1 wrench charger

⚖ : 1,930 g.

Additional equipment kit

E.240-KIT2

- Contains :
- E.240-REC.
- E.240-CHA.
- Receiver and USB cable
- 1 wrench charger

⚖ : 1,100 g.

248 and 446 series

"NON GRADUATED" : ADJUSTABLE WRENCHES

COMPACT, DURABLE PRODUCTION WRENCHES

Durable

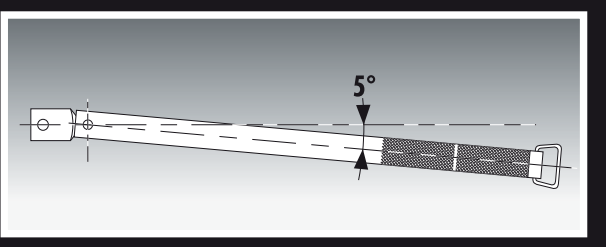
- *For intensive and repetitive use, tested to over 100,000 cycles.*

Compact and lightweight

- *Shorter and more compact for working in confined spaces.*
- *Reduced weight for increased comfort when performing intensive tasks.*

Safe

- *Non-graduated preset torque wrenches for production applications.*
- *Preset with a hex key and a torque meter, no risk of no risk of accidentally altering settings.*
- *Touch and sound signals on release : can be used in noisy and poor visibility conditions.*

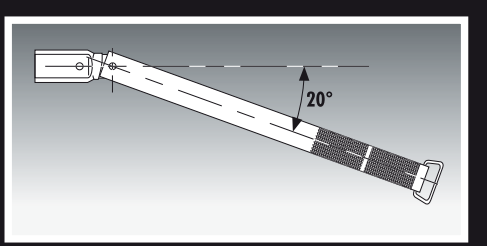


- *5° release angle*
- *9x12 and 14x18 end fittings*
- *Accuracy : ± 4 %.*

Series 248

Series 446

- *Wide (20°) release angle*
- *20x7 end fitting*
- *Accuracy : ± 8 %.*



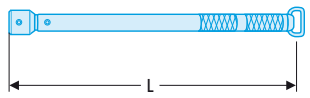
"Non-vernier" adjustable wrenches

248D Non-vernier adjustable "click" wrenches

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.

- Accuracy : +/- 4 %.
- Proven reliability : 100,000 cycles.
- 9x12 or 14x18 end fittings
- Preset tightening or loosening torques.
- Preset on a test rig using a hex key, see torque tester range.
- Knurled metal handle, optional plastic handle resistant to aggressive hydrocarbons such as Skydrol or Hy-jet, etc.
- Numbered and supplied with an ISO 6789 calibration certificate, packaged in a protective plastic tube.

	Capacity N.m	Capacity lbf.in	Capacity lbf.ft	End fitting	L mm	kg
R.344DA	1-5	10-50		9x12	200	0,24
R.248-25D	5-25	45-220		9X12	250	0,28
J.248-50D	10-50	90-440		9x12	331	0,74
S.248-100D	20-100		15-74	9x12	399	0,88
S.248-200D	40-200		30-148	14x18	464	1,08
S.248-340D	60-340		44-250	14X18	618	1,40

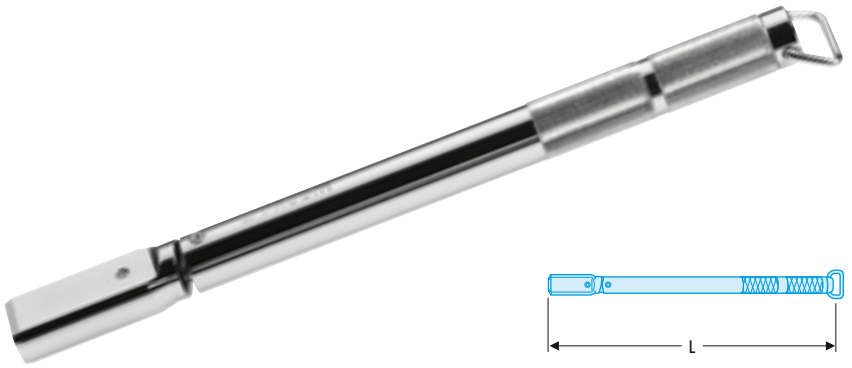


	Description
R.345P	Handle for R.248-25D
S.345P	Handle for J.248-50D or S.248-100D, 200D, 340D

446 Non-vernier adjustable wide-angle "break" wrenches

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.

- Accuracy : +/- 8 %.
- Proven reliability : 50,000 cycles.
- 9x12 or 20x7 end fittings.
- Preset with a torque meter, see torque tester range.
- Supplied with an ISO 6789 calibration certificate.
- Packaged in a protective plastic tube.



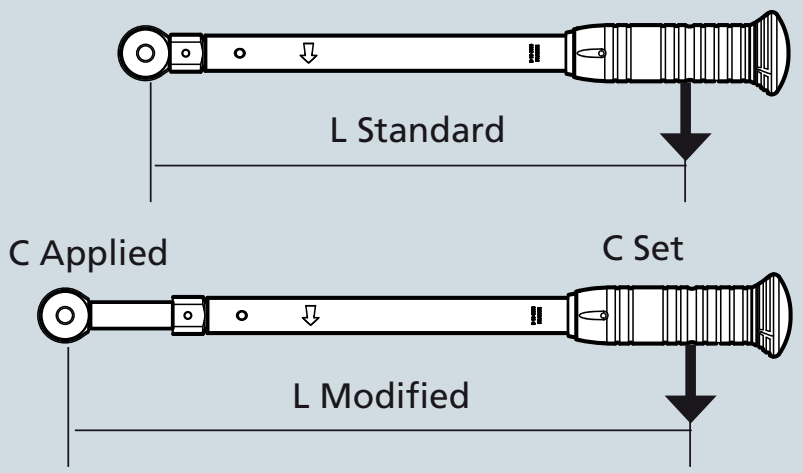
	Capacity N.m	End fitting	☐ "	L mm	kg
R.446-25	5 - 25	9 x 12	1/4	214	0,38
J.446-50	10 - 50	20 x 7	3/8	279	0,49
S.446-100	20 - 100	20 x 7	1/2	407	0,84

Calculating the correction factor

If a non-standard or crowfoot accessory is used, the applied torque will not correspond to the set value.

Applied torque =

Set torque x $\frac{\text{L Modified}}{\text{L Standard}}$



250A series Indicating torque wrench

The two-way indicating wrench for checking your fasteners

Easy to read

- Large dial.
- Separate Nm and lbf.ft scales.
- Two-way operation.
- Accuracy : ± 4 % of reading in accordance with ISO 6789.

Light signal / pointer

- Wrench K.250A fitted with visible (light) and audible (buzzer) indicators.
- Wrenches R, J, S and K fitted with reference pointer.

Dial indicating torque wrenches

250A Indicating wrenches

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.

- Supplied with an ISO 6789 calibration certificate.
- Supplied in a plastic storage case.

■ Accessories :

- Ratchet : J.156 for wrenches J.250A and J.255A, S.156 for wrench S.250A.
- "Crowfoot" ends ☐ 3/8".

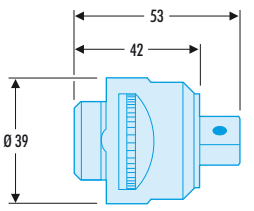
	Capacity			1 graduation			Length mm	☐ "	ΔΔ kg
	N.m	lbf.in	lbf.ft	N.m	lbf. in	lbf. ft			
R.250A	2-9	15-75	-	0,2	1	-	255	1/4	0,46
J.250A	6-30	50-250	-	0,5	5	-	255	3/8	0,47
J.255A	14-70	120-600	-	2,0	10	-	380	3/8	0,87
S.250A	50-240	-	35-175	5,0	-	5	570	1/2	1,30
K.250A	160-800	-	120-600	20,0	-	10	1185	3/4	4,12

3/8" ratchet attachment

J.156

- 5° increments.
- Satin chrome finish.

ΔΔ : 200g.

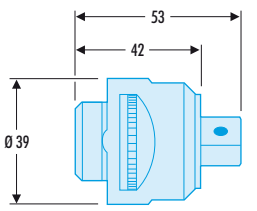


1/2" ratchet attachment

S.156

- Female 1/2" square drive
- Male 1/2" square drive
- 5° increments.

ΔΔ : 230 g.



Release-type torque drivers

A.400 and A.300MT Series

RELEASE TYPE TORQUE DRIVERS

AN ACCURATE, DURABLE LOW-TORQUE TOOL

Reliable, high performance

- *Reliability of mechanism tested over more than 50,000 operations.*
- *Accuracy exceeds ISO 6789 specified performance of ± 6 %.*
- *Automatic reset every 120°.*

Safe

- *Automatically releases upon reaching the specified torque, impossible to exceed the set value.*
- *Protected adjustment system : no risk of accidentally altering settings.*
- *Flattened profile prevents tool rolling on the work-top.*

Ergonomic

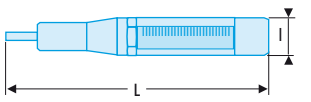
- *Clear, easy to read vernier.*
- *Ergonomic handle providing an excellent grip.*
- *Lightweight.*

ISO 6789 Type II - Class D - Class F

Release-type torque drivers

Micro-Tech® bit drivers

▷ ISO 6789.
• Reduced weight and size specifically designed for low torques.
• Clockwise operation.
• Hexagon socket drive for ∅ 4 mm bits (optional☐ 1/4" drive with adapter ECR.0).
• Supplied with calibration certificate and adjusting key.



	Capacity cN.m	Drive	1 graduation cN.m	Adjusting key	Suitable bits series	L mm	l mm	ΔΔ g
A.300MT	4 - 20	4 mm	0,05	82.4	0	96,5	21	75
A.301MT	15 - 75	1/4"	0,5	82.4	1	130,0	23	130

A.400 Driver with Vernier adjustment

▷ Exceeds ISO 6789 requirements.
• Class II type D (A.400 maintenance).
• One-way drivers, clockwise operation.
• Hexagon socket drive for ∅ 1/4".
• ECR ∅ 1/4" - ☐ 1/4" adaptor for optional sockets and accessories.
• Drive ☐ 1/4" on the handle for ratchet handle A.300PA.
• Supplied with calibration certificate, adjusting key and individual identification number.

	Torque	Graduation N.m	L mm	ΔΔ g
A.402	0.5 to 2.5 Nm	0,1	147	280
A.404	2 to 10 Nm	0,5	147	400

Drive socket adaptor

ECR.0

• adaptor for using ☐ 1/4" "radio" sockets with the A.300MT and A.340MT series screwdrivers.
• 4 mm hexagonal drive.
• Length 22 mm.
ΔΔ : 7 g.

Socket adaptor - ☐ 1/4" - ∅ 1/4"

ECR

• For using 1/4" sockets with drivers A.400, A.440, A.301MT and A.341MT.
• Length 25 mm.
ΔΔ : 15 g.

Attachable ratchet handle

A.300PA

• Ratchet handle gives more tightening power for repetitive work and high torques.
• Fits drivers with 0.50 to 10 N.m torque capacity.
• Max. torque : 30 N.m
ΔΔ : 85 g.

Micro-Tech® tool set

▷ ISO 6789.
• Case-set includes bits and adjusting key.
• Supplied with inspection report.

	Capacity			Contents			Dimensions	
	N.m	Screwdriver	Adjusting key	Bits⬬	Bits✪	Bits○	mm	g
A.300MTJ1	4-20	A.300MT	82.4	1,8 - 2,5 mm	0,9 - 1,3 - 1,5 - 2 mm	PZ 0 - 1 - 2 mm	185X109X40	300
A.301MTJ1	15-75	A.301MT	82.4	4 - 4,5 - 5,5 mm	1,5 - 2,5 - 3 mm	PZ 0 - 1 mm	185x109x40	370

Driver bit set ∅ 1/4"

▷ Exceeds ISO 6789 requirements.
• Class II type D (A.400 maintenance).
• One-way drivers, clockwise operation.
• Hexagon socket drive for ∅ 1/4".
• Drive ☐ 1/4" on the handle for ratchet handle A.300PA.
• Supplied with inspection report, adjusting key and individual identification number.
• Case BP.102 and tray PL.436.

	Contents						
	Screwdri-ver	Bit holder	Handle	Adjusting key	Bits⬬	Bits○	Bits✪
A.402J2	A.402	EF.1P4	A.300PA	A.402-20	4,5 - 6,5 - 8 mm	3 - 4 - 5 mm	PZ 1 - 2 - 3 mm
A.404J2	A.404	EF.1PA	A.300PA	A.404-20	4,5 - 6,5 - 8 mm	3 - 4 - 5 mm	PZ 1 - 2 - 3 mm

Socket set ☐ 1/4"

▷ Exceeds ISO 6789 requirements.
• Class II type D (A.400 maintenance).
• One-way drivers, clockwise operation.
• Hexagon socket drive for ∅ 1/4".
• ECR ∅ 1/4" - ☐ 1/4" adaptor for sockets and accessories.
• Drive ☐ 1/4" on the handle for ratchet handle A.300PA.
• Supplied with inspection report, adjusting key and individual identification number.
• Supplied with adaptor ECR, extensions R.210 and R.215.
• Case BP.115 and tray PL.434.

	Contents			
	Screwdriver	Handle	Adjusting key	Socket
A.402J1	A.402	A.300PA	A402-20	R.3,2-4-5-5,5-6-7-8-9-10 mm
A.404J1	A.404	A.300PA	A404-20	R.3,2-4-5-5,5-6-7-8-9-10 mm

A.440 and A.340MT series non-vernier drivers

DRIVERS DESIGNED FOR PRODUCTION APPLICATIONS

Same characteristics as A.400 and A.300MT drivers

- No vernier adjustment, torque set with a torque-meter.
- Performance exceeds ISO 6789 requirements (± 6 % of the preset value).
- Handle release when required torque is reached, prevents inadvertent overtorquing
- Automatic reset every 120°.

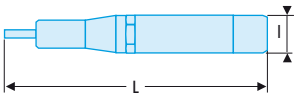
ISO 6789 Type II - Class D - Class F

Non-vernier release-type torque drivers

Micro-Tech® torque drivers

- Reduced weight and size specifically designed for low torques.
- One-way drivers supplied with adjusting key.
- Non-graduated drivers preset on a test rig.
- Hexagon socket drive for ∅ 4 mm bits (optional ☐ 1/4" drive with). adapter ECR.0).

	Capacity		Drive	Adjusting key	Suitable bits series	L mm	l mm	⏢ g
	cN.m	lbf.in						
A.340MT	4-20	0,35-1,7	4 mm	82.4	0	96,5	21	75
A.341MT	15-75	1,30-6,5	1/4"	82.4	1	130,0	23	130



A.440 Production driver

▷ Exceeds ISO 6789 requirements.
- Class II type F (A.440 production).
- One-way drivers, clockwise operation.
- Hexagon socket drive for ∅ 1/4".
- Drive ☐ 1/4" on the handle for ratchet handle A.300PA.
- Supplied with ISO 6789 calibration certificate, adjusting key and individual identification number.

	Torque	L mm	⏢ g
A.442	0.5 to 2.5 Nm	147	300
A.444	2 to 10 Nm	168	400

Accessories

7 types of accessory :

Pivot knob

Standard ratchet

Compact ratchet

Square drives

Open end

Ring end

"crowfoot" end

3 types of end fitting :

9X12

14X18

20X7

Wrench fitted with a ratchet J.372, a knob S.305P and a socket.

Torque accessories

Vernier wrenches

① Choose your wrench or driver				② Choose the type of accessory					
306	208	200	203						
R.304DA - R.306-25D J.306-50D - S.306-100D R.306U - J.306U	J.208-50D S.208-100D			9 x12	J.372 S.372	R.372 J.372V S.372V	R.373 J.373 S.373	SERIES 10	SERIES 12
S.306-200D - S.306-350D S.306U - K.315DA	S.208-200D S.208-340D			14 x18	S.382	S.382V K.382A	S.383 K.383	SERIES 11	SERIES 13
K.325D		K.200DB K.202DB M.200DB		ø30		K.200DB K.202DB M.200DB	K.151A M.151		
S.306-100R S.306-200R S.306-350R			R.203DA J.203DA S.203A	20 x 7		J.152 S.152	J.203E S.203E	SERIES 20	

Non-vernier wrenches

E.240	E.440	248	446						
E.240-25R E.240-50J E.240-130S	E.440-25R E.440-50J E.440-130S	R.344DA R.248-25D J.248-50D S.248-100D	R.446-25	9 x12	J.372 S.372	R.372 J.372V S.372V	R.373 J.373 S.373	SERIES 10	SERIES 12
E.240-200S E.240-340S		S.248-200D S.248-340D		14 x18	S.382	S.382V K.382A	S.383 K.383	SERIES 11	SERIES 13
			J.446-50 S.446-100	20 x 7		J.152 S.152	J.203E S.203E	SERIES 20	

Screwdriver

A.400 A.300MT	A.440 A.340MT			
A.402 A.404	A.442 A.444	∅ 1/4	ECR	
A.300MT A.301MT	A.340MT A.341MT	∅ 4		ECR0

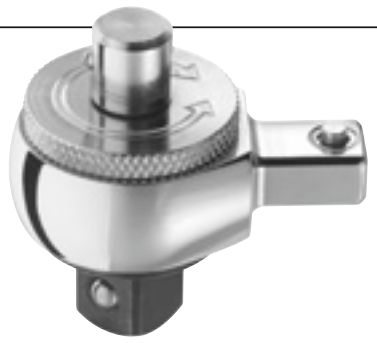
See the torque wrench and driver selection guide on page 265

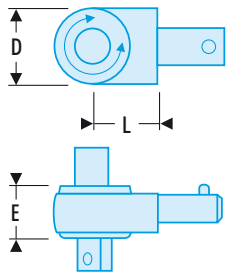
9 x 12 accessories

Ratchets

• For use with pivot knob S.305P.

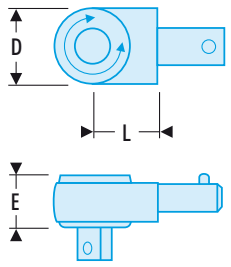
	Attachement	⍁ "	D mm	E mm	L mm	⍙ g
J.372	9X12	3/8	37	26	15	155
S.372	9X12	1/2	37	26	15	165





Compact ratchets

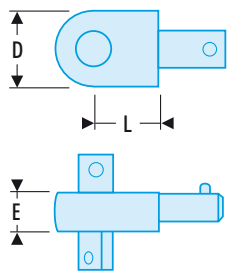
	Attachement	⍁ "	D mm	E mm	L mm	⍙ g
R.372	9X12	1/4	27	19	15	70
J.372V	9X12	3/8	37	26	15	140
S.372V	9X12	1/2	37	26	15	150



Square drives

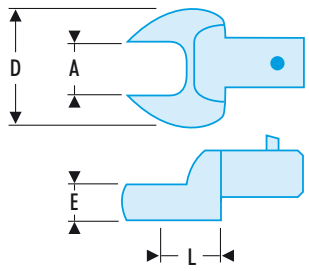
• For use with pivot knob S.305P, except model R.373.

	Attachement	⍁ "	E mm	D mm	L mm	⍙ g
R.373	9X12	1/4	14	23	15	55
J.373	9X12	3/8	17	26	15	85
S.373	9X12	1/2	17	26	15	100



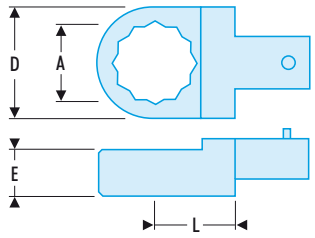
10 Open ends

	A "	E mm	D mm	L mm	⍙ g
10.7	10.1/4	5	19	15	31
10.8	10.5/16	5	19	15	31
10.9		6	25	15	31
10.10	10.3/8	6	25	15	32
10.11	10.7/16	6	25	15	32
10.12		7	31	15	39
10.13	10.1/2	7	31	15	39
10.14	10.9/16	7	31	15	44
10.15		9	37	15	50
10.16	10.5/8	9	37	15	50
10.17	10.11/16	9	37	15	50
10.18		9	39	15	52
10.19	10.3/4	9	40	15	52



12 Ring ends

	E mm	A mm	D mm	L mm	⍙ g
12.7	7	7	14	15	31
12.8	7	8	14	15	31
12.9	7	9	14	15	31
12.10	8	10	17	15	32
12.11	8	11	17	15	32
12.12	10	12	20	15	38
12.13	10	13	20	15	38
12.14	11	14	23	15	43
12.15	11	15	23	15	43
12.16	12	16	27	15	50
12.17	12	17	27	15	50
12.18	13	18	29	15	53
12.19	13	19	29	15	53



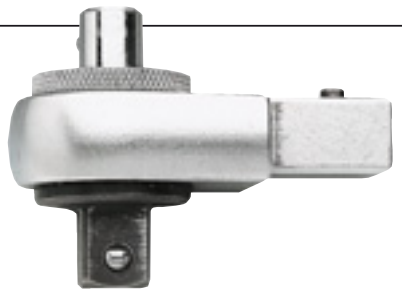
14 x 18 accessories

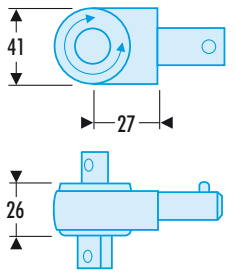
Ratchet

S.382

- For use with pivot knob S.305P.
- ☐ 1/2".

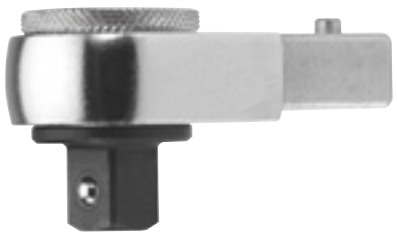
⚖ : 300 g.

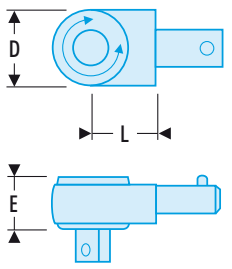




Compact ratchets

	☐ "	D mm	E mm	L mm	⚖ g
S.382V	1/2	41	26	27	285
K.382A	3/4	69	35	27	870

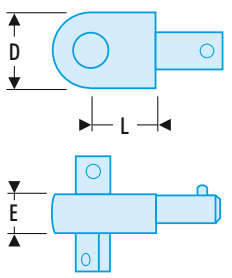




Square drives

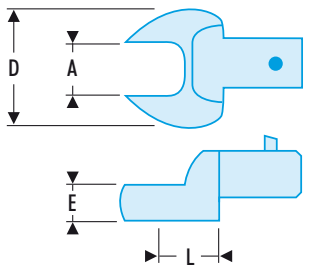
- For use with pivot knob S.305P, except model K.383.

	☐ "	D mm	E mm	L mm	⚖ g
S.383	1/2	32	22	27	160
K.383	3/4	38	22	27	340



11 Open ends

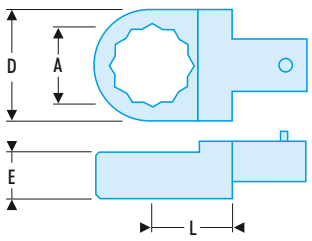
	A "	E mm	D mm	L mm	⚖ g
11.13	11.1/2	8	34	27	114
11.14	11.9/16	8	34	27	114
11.15		8	34	27	114
11.16	11.5/8	10	39	27	132
11.17	11.11/16	12	39	27	115
11.18		12	39	27	115
11.19	11.3/4	12	45	27	130
11.21	11.13/16	12	45	27	130
11.22	11.7/8	14	52	27	143
11.23	11.15/16	14	52	27	143
11.24		14	52	27	150
11.27	11.1'1/16	16	59	27	170
11.30		18	64	27	200
11.32	11.1'1/4	18	64	27	200



13 Ring ends

	A mm	D mm	E mm	L mm	⚖ g
13.13	13	23	11	27	109
13.14	14	51	11	27	109
13.15	15	24	11	27	109
13.16	16	26	11	27	115
13.17	17	26	12	27	115
13.18	18	26	12	27	115
13.19	19	30	12	27	130
13.21	21	31	12	27	130

	A mm	D mm	E mm	L mm	⚖ g
13.22	22	34	14	27	143
13.23	23	35	14	27	143
13.24	24	36	14	27	150
13.27	27	42	16	27	170
13.30	30	50	18	27	200
13.32	32	50	18	27	200
13.34	34	51	11	27	109
13.36	36	51	19	27	200



20 x 7 accessories

200P Pivot knobs

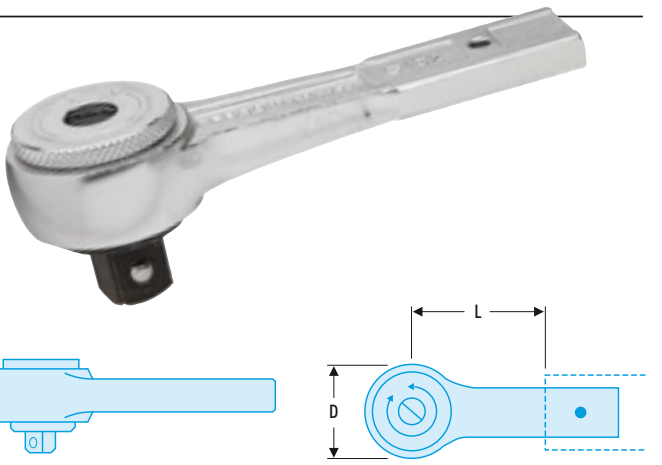
• Steadies the wrench square in relation to fastener centreline for greater torque accuracy.
• For use with square drives J.203E, S.203E and wrench R.203DA.

	For use with	Ø mm	L mm	⏢ g
R.200P	R.203DA	22	45	20
S.200P	J.203E, S.203E	36	55	55

Ratchets

• 5° increments.
• For use on J.203DA, S.203DA, S.306-100R, S.306-200R and S.306S-350R.
• Chrome finish.

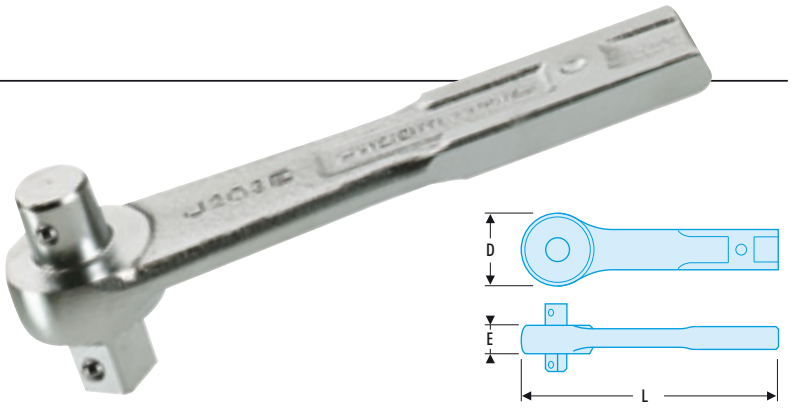
	For wrench	☐ "	E mm	D mm	L mm	⏢ g
J.152	J.203DA	3/8	25	38	55	274
S.152	S.203DA S.306-100R S.306-200R S.306-350R	1/2	25	38	55	275



Square drives

• For use on J.203DA, S.203DA, S.306-100R, S.306-200R and S.306-350R..

	☐ "	E mm	D mm	L mm	⏢ g
J.203E	3/8	11	25	56	140
S.203E	1/2	11	25	56	150



Adaptors

• For use with :
- 9 x 12 end fittings on wrenches up to 100 N.m
- 14 x 18 end fittings on wrenches up to 600 N.m

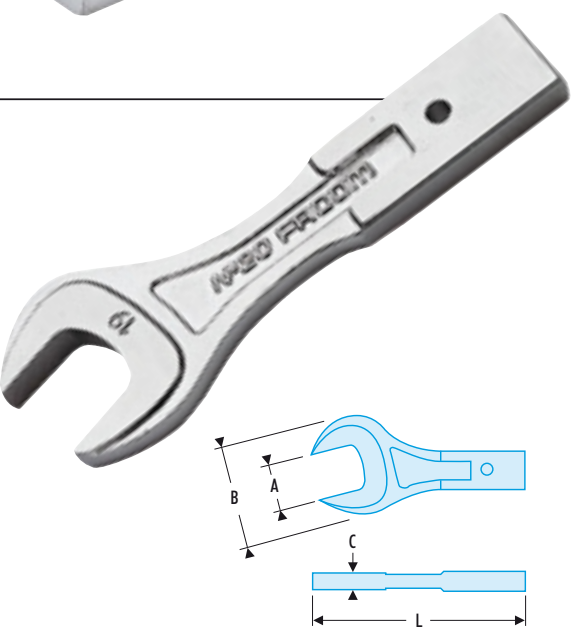
	End fitting	⏢ g
J.274	9x12	135
S.284	14x18	145

20 Open ends

• For use on 203, 306R and 446 series wrenches.
• Chrome finish.

	A mm	B mm	C mm	L mm	⏢ g
20.10	10	24	6,0	105	60
20.11	11	24	6,0	105	60
20.12	12	29	6,0	106	60
20.13	13	29	6,0	106	60
20.14	14	29	6,0	106	65
20.15	15	40	7,5	109	105
20.16	16	40	7,5	109	105
20.17	17	40	7,5	109	105
20.18	18	40	7,5	109	100
20.19	19	40	7,5	109	100
20.21	21	53	8,0	112	145

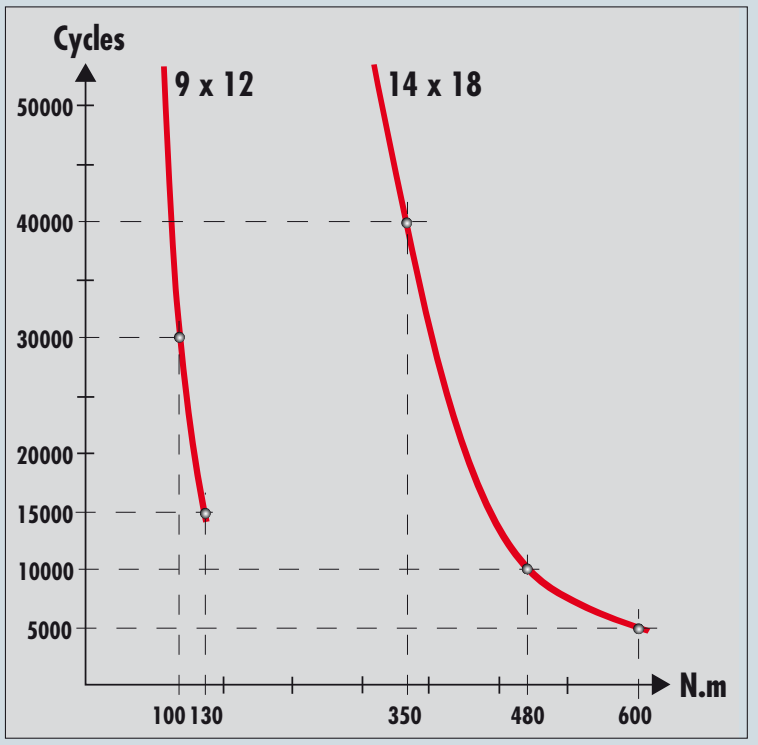
	A mm	B mm	C mm	L mm	⏢ g
20.22	22	53	8,0	112	145
20.23	23	53	8,0	112	145
20.24	24	53	8,0	112	140
20.26	26	53	8,0	112	130
20.27	27	66	9,0	115	185
20.28	28	66	9,0	115	185
20.29	29	66	9,0	115	185
20.30	30	66	9,0	115	185
20.32	32	66	9,0	115	180
20.35	35	74	10,0	118	220
20.36	36	74	10,0	118	220



Safety of end fittings

When the wrench releases, the torque accessories are subjected to severe shocks that can cause them to fail after a certain number of cycles.

The diagram below shows the number of cycles not to be exceeded according to the applied torque.
The accessory must be replaced before reaching the maximum number of cycles.



Specialist accessories

Pivot knob

S.305P

- Holds the wrench square in relation to fastener centreline.
- For use with 3/8" and 1/2" ratchets and square drives.
- Max. ∅ 45; length 66 mm.

⚖ : 110 g.

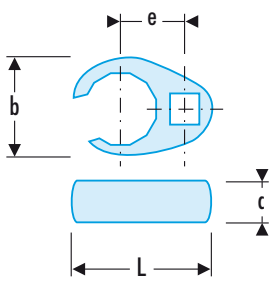
18 "Crowfoot" flare-nut ends mm and inch

▷ ASME B 107.21.
Optimum accessibility.

- The crowfoot design gives access to fasteners out of reach of a conventional torque wrench.
- Square drive ☐ 3/8".
- 12-point open end.

Tightening-torque setting

- The use of end accessories affects wrench lever arm length, see page.
- Before use, the torque wrench complete with accessory should therefore be calibrated on a torque-meter..



mm	A "	e mm	b mm	c mm	L mm	⚖ g
18.10	18.3/8	15,0	22,0	9,5	35	30
18.11	18.7/16	15,0	22,0	9,5	36	30
18.12	18.1/2	16,7	24,0	10,5	39	35
18.13		16,7	24,0	10,5	39	35
18.14	18.9/16	19,5	28,5	11,5	43	45
18.16	18.5/8	19,5	28,5	11,5	43	45
18.17	18.11/16	20,3	32,5	13,7	46	65
18.18		20,3	32,5	13,7	46	65
18.19	18.3/4	20,3	32,5	13,7	48	65
	18.13/16	21,8	36,5	13,7	49	75
	18.7/8	21,8	36,5	13,7	49	75
	18/1'	23,9	44,4	14,2	55	95

Protractor attachments

DESIGNED FOR CYLINDER-HEADS

FACOM offers a complete range of specially designed tools

Maximum visibility.

- Choice of tapered drum with reverse laser marking. (DMP.360, DM.360L, D.360L) or flat drum with normal marking. (DM.360, DM.370). Set the drum to the value recommended by the manufacturer and stop at zero.

Easier to attach.

- Wide range of drum-locking accessories : Clamp, magnet, 3 limit stops (24, 45 and 65 mm).

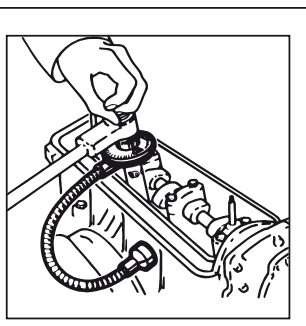
Compliance with manufacturers' recommendations.

- It is essential to apply the manufacturers' recommended cylinder head torques.
- Tightening to the correct torque with a suitable torque wrench.
- Correct torquing sequence and turn angle.

Protractor attachments

- 2° graduations.
- Drive ☐ drive.
- Fixed point by flexible arm with magnet.

	☐ "	Ø mm	L mm	⚖ g
DM.360	1/2	63	410	350
DM.370	3/4	73	430	550



Side-graduated protractor attachment ☐ 1/2"

D.360L

- Tapered side-graduated drum for maximum ease of reading.
- Double index (red line) for presetting. To tighten, simply align the two markers
- 2° resolution.
- Supplied with 24, 45 and 65 mm limit stops.

⚖ : 414 g.

Side-graduated protractor attachment with flexible arm and magnet ☐ 1/2"

DM.360L

- Supplied with a flexible arm and a magnet.

⚖ : 500 g.

Protractor attachment ☐ 1/2

DMP.360L

- Complete kit comprising 3 limit stops (24, 45, 65 and mm long), a flexible arm with a clamp and a magnet
- Dimensions : 375 x 180 x 145 mm.

⚖ : 550 g.

E.5000 "TORKONTROL" TORQUE TESTER

SIMPLE AND ACCURATE FOR THE WORKSHOP OR LABORATORY

High-performance

- *Large torque range : 10 to 1100 Nm*
- *High accuracy : +/- 1 % of reading over the entire range.*
- *Large contact surface ensuring accuracy and a high metrological standard.*
- *PC connection.*

Operating modes to suit all types of wrenches

- *ISO MODE :*
  for producing ISO 6789 calibration certificates.
- *PEAK MODE :*
  memorises the release value.
- *STORAGE MODE :*
  memorises the maximum recorded value.
- *TRACKING MODE :*
  checking of direct-reading and dial-type wrenches, etc.

User-friendly

- *Clear, easy-to-read dual display screen showing torque readings and interactive messages.*
- *Dual visual and sound signals : can be used in noisy and poor visibility conditions.*

Ergonomic

- *2 drill bits, tapping and riveting dimensions:*
  Easy-to-turn base providing horizontal and vertical wrench positions for use with high torque wrenches.
- *Attaches to the workbench in both positions*
- *suitable for all square drives from 1/4" to 1".*

Reminder

ISO 6789 wrench testing requirements :

The standard requires wrenches to be tested at 20 %, 60 % and 100 % of their maximum capacity. 5 test releases must be performed at each of these values.
The standard defines the tolerances for each type of tool (+/- 4 %, +/- 6 %, ...).

Electronic torque tester

Electronic torque tester

E.5000

GENERAL SPECIFICATION.

- Operating range : 10 Nm to 1,100 Nm
- Accuracy : +/- 1 % of reading over the entire reading range (digit included).
- Displayed torque range : 2 to 1,210 Nm
- 10 languages : IT, FR, GB, D, NL, E, PL, PO, DK, SW.
- Units : Nm, daNm, cNm, kgf.m, lbf.in, lbf.ft.
- 4 operating methods for all checking needs.
- Prevention of main measuring errors (Zero and hysteresis).
- Internal battery - average life 3 years.
- Storage temperature : -20°C to 70°C
- Operating temperature : 10°C to 40°C.
- Sensitivity drift : 0.2 % per °C (included in the ± 1 %).
- Ingress protection rating IP5 - EN 60592 (dust).
- EMC CE : 89/336 CEI EN 50081-1 / CEI EN 50082-2.
- Supply voltage : 115-230V / 50-60Hz.
- Power consumption in operation 30-50 mA / 230V, on standby 15 mA / 230V.

SOFTWARE SPECIFICATION.

- Storage of up to 500 measurements including date, time, method, unit and position.
- Direct connection to a PC without special software.
- System status information - Buzzer with five loudness settings.
- 3 light signal operating options.
- Customisation of working mode.

	Sizes	kg
E.5000	155 x 260 x 240 mm	13

CD.12 Test rig

- Applies torque at a constant speed in accordance with ISO 6789 requirements.
- Adjustment of wrench angle vertically and horizontally to remain within the tolerances specified by the standard.
- Metrological accuracy ensuring reliability of test results.
- Easy application of torque.
- Full rig comprises the base and the standard module.
- Torque tester E.5000 not included.

	Description	Capacity N.m	L mm	l mm	kg
CD.12-350	Complete test rig	5-350	1008	230	20
CD.12-350B	Test rig base	5 - 350	1008	230	13,26
CD.12-1100	Complete test rig	5-1100	1558	230	27
CD.12-1100B	Test rig base	5 - 1100	1558	230	19,77
CD.12-SM	Standard module	-	580	270	8,89

	Description
CD.12-A	Spare parts

Tip

FACOM TORQUE-METER MAINTENANCE AND INSPECTION

- These reliable field-proven, units require no special servicing.
- Avoid knocks, falls and overloads, and protect from the weather.
- New units are supplied complete with a calibration certificate.
- Periodic inspection can be carried out at the Facom metrology laboratory that is accredited by COFRAC for torque value calibration. (Accreditation no. 2-1305).

See laboratory section, page 301

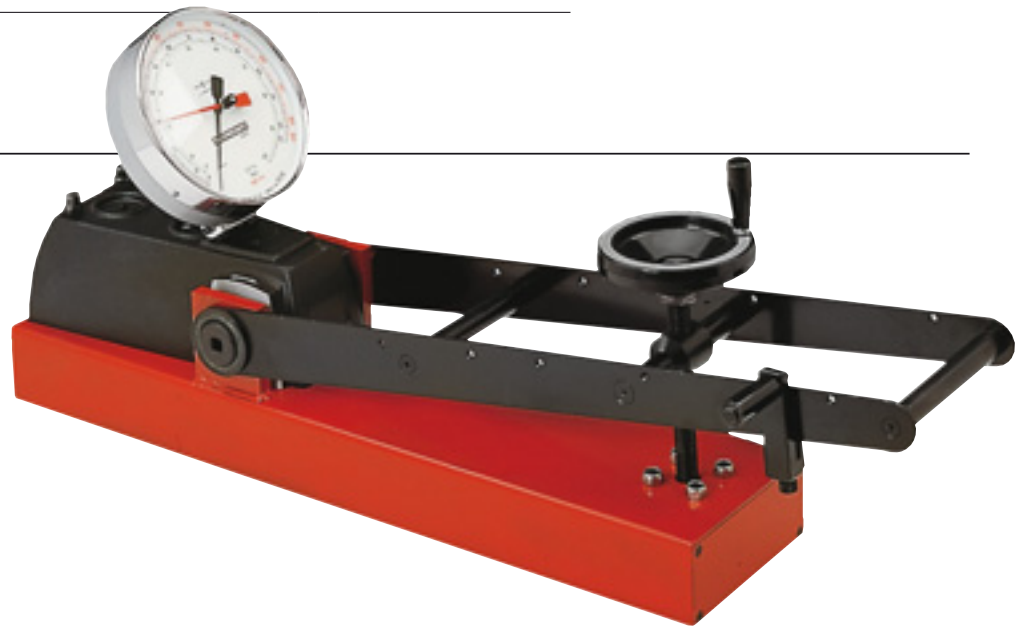
Mechanical torque testers

CD Wrench torque-meters

- Accuracy : +/- 1 % from 20 % to 100 % of full scale reading.
- Numbered and supplied with a calibration certificate.
- Hydraulic system for long-term reliability.
- Hinged dial allows use upright or horizontal.
- Large-diameter dial with reference pointer for clear, error-free readings.
- Base dimensions 330 x 120 mm.
- Dial diameter 206 mm.

	Capacity					1 graduation					☐	⚖
	N.m	kgf.cm	kgf.m	lbf.in	lbf.ft	N.m	kgf. cm	kgf. m	lbf. in	lbf. ft	"	kg
CD.1	12-60	125-625		110-550		0,5	5		5		3/8-1/2	7,800
CD.2	20-125		2-12,5		20-100	1		0,1		1	3/8-1/2-3/4	7,800
CD.3	100-500		10-50		75-375	5		0,5	5		1/2-3/4-1	7,800

Test rig for CD torque-meters



CD.10

- Recommended for click-type torque wrenches.
- Useful addition to torque-meters CD.1 to CD.3.
- Demultiplied handwheel applies torque progressively to wrenches for precise calibration checks.
- Dimensions : 1,020 x 250 mm.

⚖ : 19.2 kg.

CDS Screwdriver torque-meters

- Accuracy : +/- 2 % from 20 % to 100 % of full scale reading.
- Numbered and supplied with a calibration certificate.
- Large-diameter dial with reference pointer for clear, error-free readings.
- Dimensions : 250 x 150 x 100 mm.
- Complete with 2 square drives.

⚖ : 1.9 kg.

	Capacity				1 graduation				☐
	cN.m	N.m	ozf.in	lbf.in	cN. m N.m	N.m	ozf. in	lbf.in	"
CDS.1	5-35		7-50		0,5		0,5		1/4-3/8
CDS.2	10-70		14-100		1		1		1/4-3/8
CDS.3		0,5-4		5-36		0,05		0,5	1/4-3/8
CDS.4		2-12		18-120		0,2		2	1/4-3/8

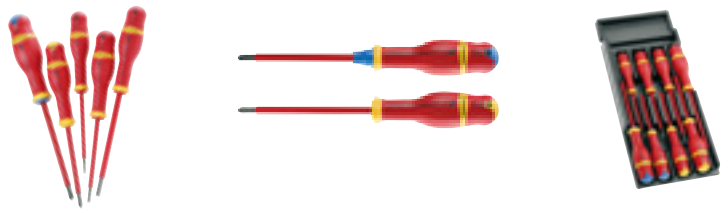
FACOM

7. Screwdrivers, keys and bits

PROTWIST screwdrivers 308

Sets and Modules 310
Screwdrivers 311

1000 V insulated screwdrivers 320



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Protwist ratchet bit drivers 330
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Voltage-tester screwdrivers 331
Magnetiser / Demagnetiser 331
Screw starters 331
Offset screwdrivers 332

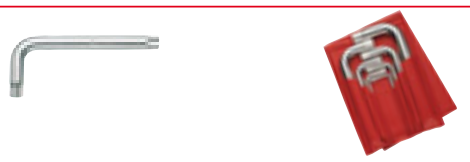
Key sets 334

Hexagonal keys 337

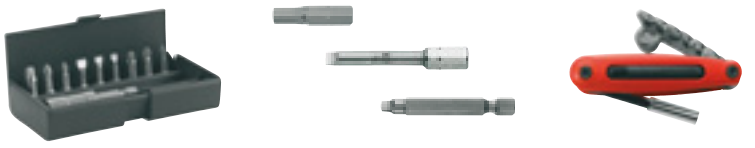
TORX® keys 340

Nut spinners - Tee-handle keys 341

Special pattern keys 343

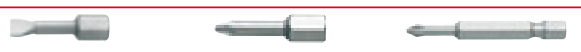


Standard bits 345



Series 1 – ¼" drive 345
Series 6 – ¼" drive with groove 349
Series 2 – 5/16" drive 351
Bit sets and modules 354

Torsion bits 355



Series 1 – ¼" drive 356
Series 6 – ¼" drive 357

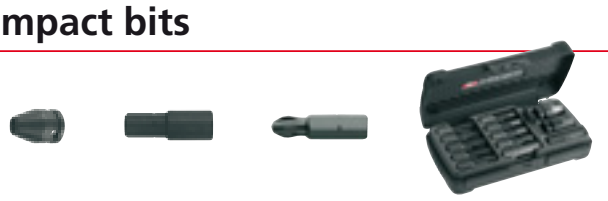
Titanium torsion bits 356

Series 1 – ¼" drive 356
Series 6 – ¼" drive 357

Bit holders and accessories 358

Manual screw driving 358
Non-impact power-assisted screw driving 360

Impact bits 362



Series 2 – 5/16" drive 362
Series 3 – 1/2" drive 363
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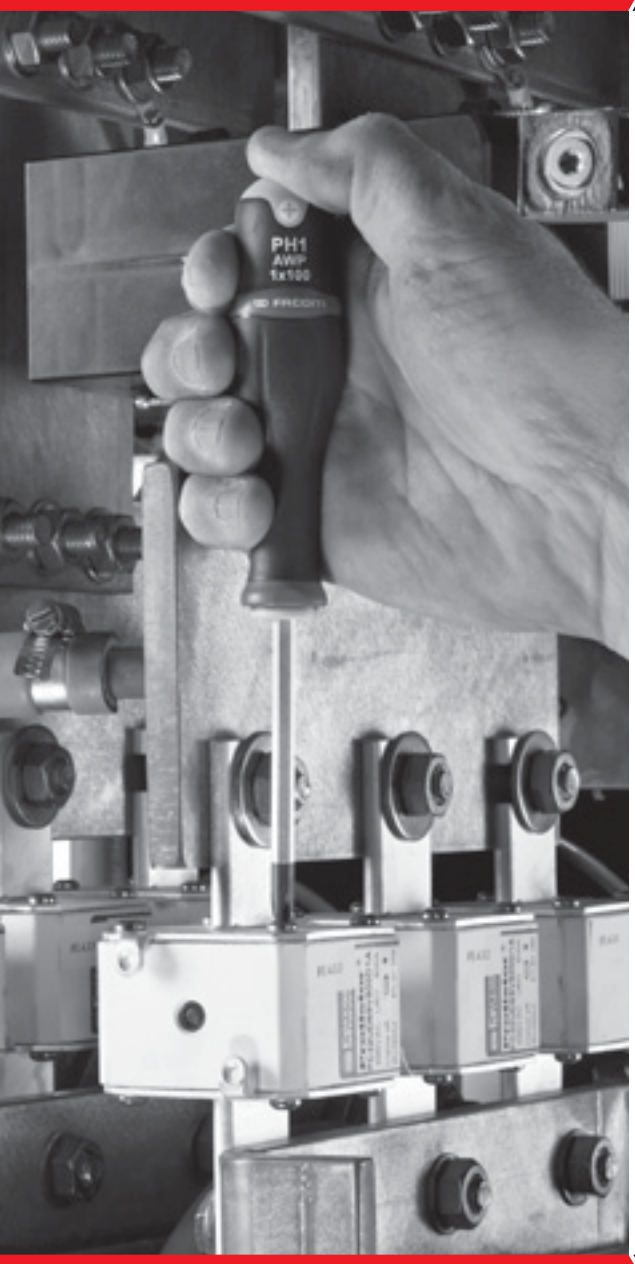
Section 17 0-series bits
4 mm drive

NEW



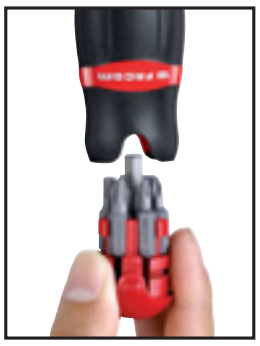
Ratchet bit drivers

High performance 45-tooth ratchet

Advantages

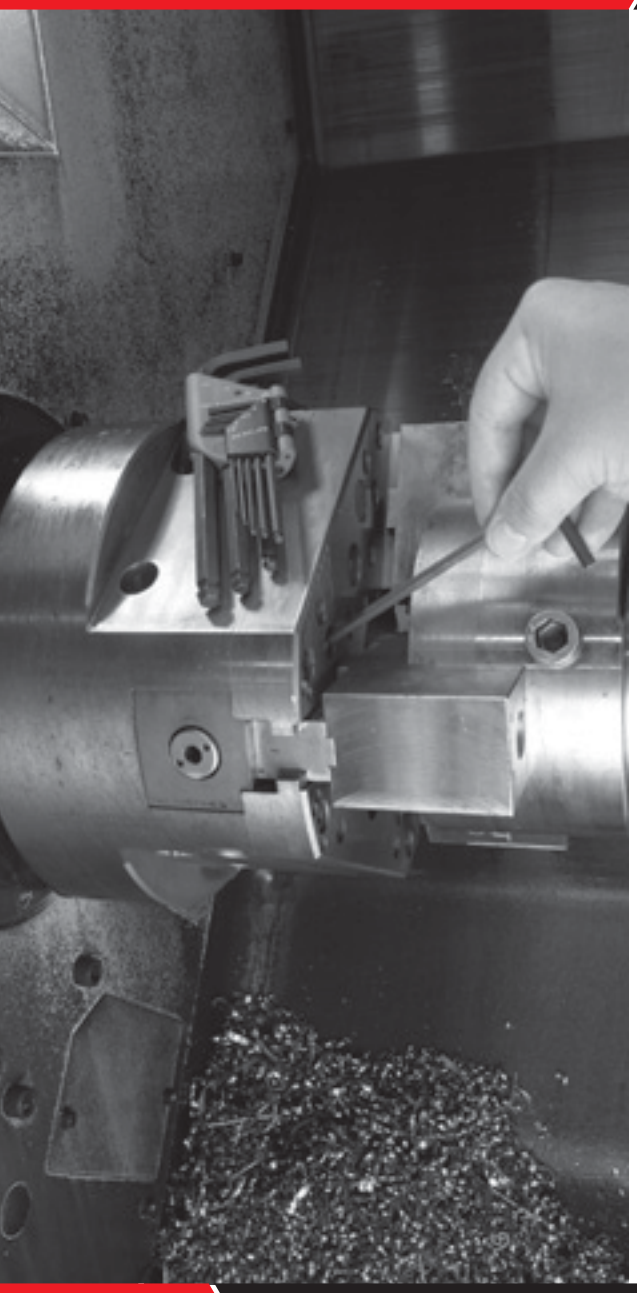
Protwist®

- Saves time
- Very low ratchet return-stroke torque
- 8 screwdriver bits
- Ergonomic bi-material handle
- Smart storage: bits are easy to pick-up and return



N 330

NEW



Torx Plus

New patterns, new tools

TORX plus®

Torx Plus

Torx plus
TAMPER RESISTANT

Advantages

- Tools for TorxPlus patterns
- Higher torque transfer
- No risk of slippage

N 305

NEW

Comfortable, strong and durable

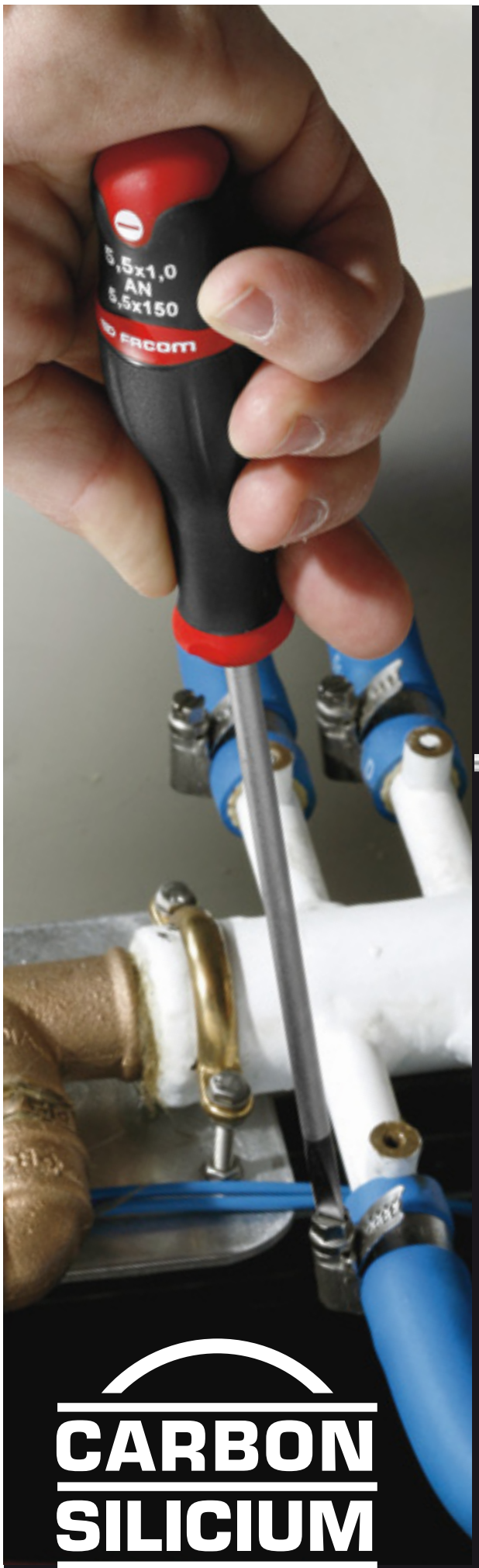
Protwist®

Advantages

- Ergonomic handle
- Strong, comfortable grip
- Accurate black-tipped blade
- Powerful carbon silicon steel blade
- Colour coded

N 308

New Screwdriver Protwist®



GOOD TORQUE TRANSMISSION AND FAST SCREWING SPEED

Natural grip, excellent comfort

- *Efficient pre-tightening.*
- *Comfortable high torque action.*
- *Easier torque transfer.*

Strong, comfortable grip and long-lasting performance

Soft polyurethane zone, polyamide core for high resistance to:

- *Impact and stress.*
- *Abrasion and chemical agents.*

Five handle sizes to suit the tip size

- *Small sizes have a long, thin body for a faster screwing action.*
- *Larger sizes have a wider gripping surface for a firmer hold and maximum torque transfer.*

Silicon carbon steel blades

- *Very strong.*
- *Excellent resistance to bending.*

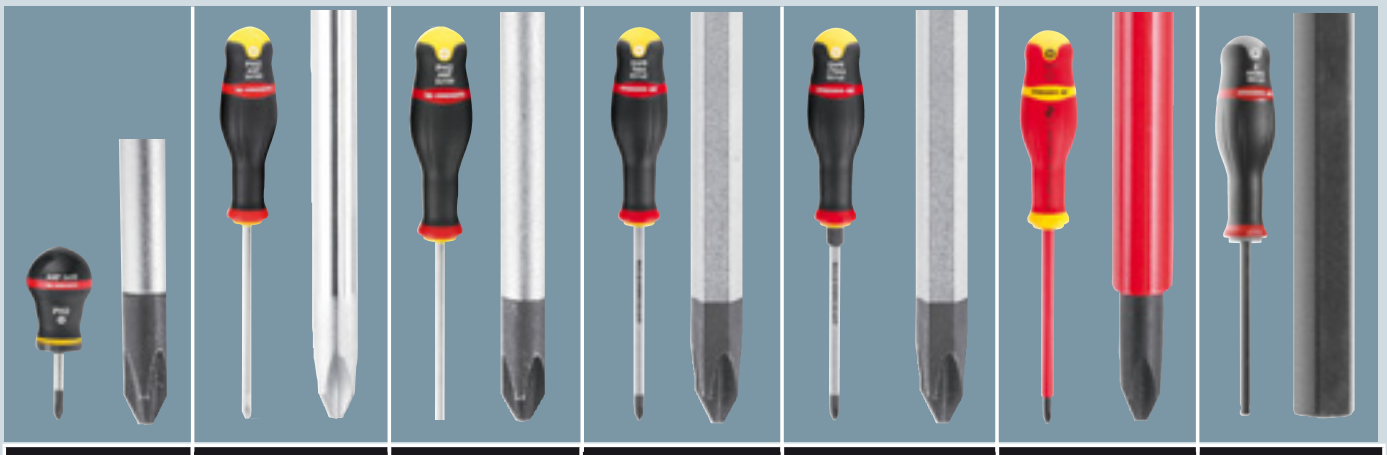
CARBON SILICIUM

Black tip : no risk of flaking and guaranteed accuracy

- *Retains the dimensional accuracy of the machined tip.*
- *No chromium deposits in the environment.*
- *No weakening due to hydrogen release during chromium plating.*

Choosing the right blade for your needs

The Protwist® range, an ideal combination of blade types and tip patterns to choose from. Over 200 references to cover all your needs.



	Short blade AN	Round blade, sand-blasted tip AS	Round blade, black tip AN	Hexagonal blade AW	Hexagonal blade with bolster AWH	1,000 V insulated blade A.VE	Hexagonal blade AWHH AWSH
	Awkward spaces	Frequent use	Intensive use	High torque	Added torquing power with a wrench	Live working	Hexagon socket heads
	10 refs 7 tips	24 refs 20 tips	90 refs 59 tips	18 refs 14 tips	16 refs 14 tips	31 refs 23 tips	14 refs 7 tips
	4 → 6,5 mm x 4	2,5 → 10 mm x 11	2 → 10 mm x 30	4 → 12 mm x 10	5,5 → 14 mm x 8	2 → 12 mm x 18	
	1 → 2 x 3	0 → 3 x 4	0 → 4 x 10	1 → 4 x 4	1 → 4 x 4	0 → 4 x 5	
	1 → 2 x 3	0 → 3 x 4	0 → 4 x 9	1 → 4 x 4	1 → 4 x 4	0 → 3 x 4	
		10 → 30 x 5	6 → 40 x 12				
			10 → 40 x 7				
			5 → 40 x 12				
			10 → 40 x 7				
			1 → 3 x 3				
Borneo						1 → 2 x 4	
							2 → 8 mm x 14

Colour coding for immediate identification of all Protwist® screwdrivers.

PROTWIST® screwdriver sets and modules

Protwist® screwdriver sets

	Qty	Contents
AND.J5	5	✪ AND0X75 - AND1X100 - AND2X125 - AND3X150 - AND4X200
ANP.J5	5	✪ ANP0X75 - ANP1X100 - ANP2X125 - ANP3X150 - ANP4X200
ANX.J6	6	✱ ANX10X75 - ANX15X75 - ANX20X100 - ANX25X100 - ANX30X125 - ANX40X150
ANXP.J6	6	✱ ANXP10X75 - ANXP15X75 - ANXP20X100 - ANXP25X100 - ANXP30X125 - ANXP40X150
ANXR.J5	5	✪ ANXR10X75 - ANXR15X75 - ANXR20X100 - ANXR25X100 - ANXR30X125
ANXRP.J5	5	✪ ANXRP10X75 - ANXRP15X75 - ANXRP20X100 - ANXRP25X100 - ANXRP30X125
ANP.J6	6	⛀ AN3,5X75 - AN4X100 - AN5,5X150 - AN6,5X150 ✪ ANP1X100 - ANP2X125
AND.J6	6	⛀ AN3,5X75 - AN4X100 - AN5,5X150 - AN6,5X150 ✪ AND1X100 - AND2X125
AN.J10	10	⛀ AN3,5X75 - AN4X100 - AN5,5X150 - ANF6,5X150 - AW8X150 - AW10X200 ✪ ANP1X100 - ANP2X125 ✪ AND1X100 - AND2X125
AWP.J6	6	⛀ AW4X100 - AW5,5X150 - AW6,5X150 - AW8X200 ✪ AWP1X100 - AWP2X125
AWD.J6	6	⛀ AW4X100 - AW5,5X150 - AW6,5X150 - AW8X200 ✪ AWD1X100 - AWD2X125
ANWH.J13	13	⛀ AN3,5X75 - AN4X100 - AN5,5X100 - AW6,5X150 - AWH8X150 - AWH10X200 - AN4X25 - AN6,5X35 ✪ ANP1X100 - ANP2X125 - ANP2X35 ✪ AND1X100 - AND2X125

	Description
CKS.13B	Tool rack
CKS.82A	Tool rack
CKS.83A	Tool rack
CKS.16A	Tool rack
N.38A-6C	Nylon wallet
N.38A-9B	Nylon wallet

Protwist® screwdriver modules

	Qty	Contents	Tray
MOD.A1	8	⛀ AN3X75 - AN3,5X100 - AN4X100 - AN5,5X125 - AWH6,5X150 - AWH8X175 ✪ ANP1X100 - ANP2X125	PL.325
MODM.A1	8	⛀ AN3X75 - AN3,5X100 - AN4X100 - AN5,5X125 - AWH6,5X150 - AWH8X175 ✪ ANP1X100 - ANP2X125	PM.MODA1
MOD.A2	8	⛀ AN2X75 - AN2,5X75 - AWDH3X150 ✪ ANP0X75 ✪ AND0X75 - AND1X100 - AND2X125	PL.631
MOD.A3	8	⛀ AN4X25 - AN5,5X35 ✪ ANP0X75 - ANP1X25 ✪ AND0X75 - AND1X100 - AND2X125 - AND2X35	PL.326
MODM.A3	9	⛀ AN4X25 - AN5,5X35 ✪ ANP0X75 - ANP1X25 ✪ AND0X75 - AND1X100 - AND2X125 - AND2X35	PM.MODA3
MOD.ANXR	7	✪ ANXR10X75 - ANXR15X75 - ANXR20X100 - ANXR25X100 - ANXR27X100 - ANXR30X125 - ANXR40X150	PL.327
MOD.ANX	7	✱ ANX10X75 - ANX15X75 - ANX20X100 - ANX25X100 - ANX27X100 - ANX30X125 - ANX40X150	PL.327

Protwist® screwdrivers for slotted heads

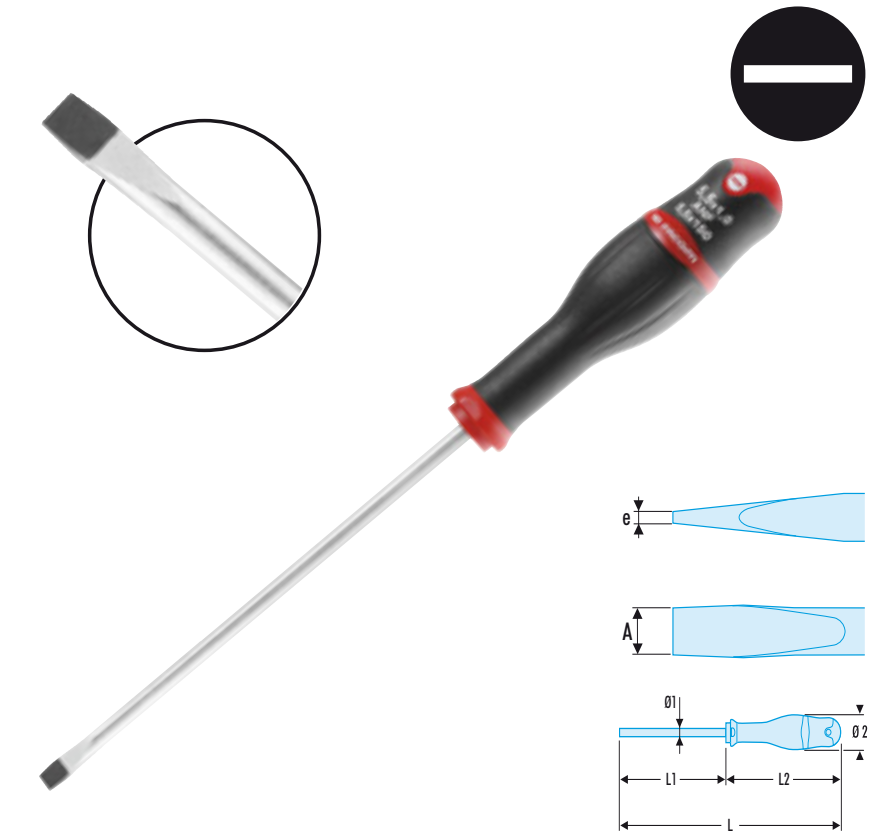
AN For slotted heads - machined blades

- Round shank allows reach into recesses.
- Matt chrome blade, hardened black tip.
- Extra-long blades for increased accessibility.

	E x A mm	Ø1 x L1 mm	Ø2 x L2 mm	L mm	g
AN2X75	0,4 x 2,0	2,0 x 75	19 x 94	169	18
AN2,5X50	0,4 x 2,5	2,5 x 50	19 x 94	144	20
AN2,5X75	0,4 x 2,5	2,5 x 75	19 x 94	169	21
AN3X75	0,5 x 3,0	3.0 x 75	25 x 103	178	32
AN3X100	0,5 x 3,0	3,0 x 100	25 x 103	203	33
AN3,5X75	0,6 x 3,5	3,5 x 75	25 x 103	178	41
AN3,5X100	0,6 x 3,5	3,5 x 100	25 x 103	203	43
AN3,5X250	0,6 x 3,5	3,5 x 250	25 x 103	353	55
AN4X100	0,8 x 4,0	4,0 x 100	30 x 109	209	47
AN4X150	0,8 x 4,0	4,0 x 150	30 x 109	259	52
AN4X200	0,8 x 4,0	4,0 x 200	30 x 109	309	57
AN4X300	0,8 x 4,0	4,0 x 300	30 x 109	409	120
AN5,5X100	1,0 x 5,5	5,5 x 100	30 x 109	209	82
AN5,5X125	1,0 x 5,5	5,5 x 125	30 x 109	234	87
AN5,5X150	1,0 x 5,5	5,5 x 150	30 x 109	259	91
AN5,5X200	1,0 x 5,5	5,5 x 200	30 x 109	309	105
AN5,5X300	1,0 x 5,5	5,5 x 300	30 x 109	409	130
AN6,5X125	1,2 x 6,5	6,5 x 125	36 x 120	245	132
AN6,5X150	1,2 x 6,5	6,5 x 150	36 x 120	270	140
AN6,5X200	1,2 x 6,5	6,5 x 200	36 x 120	320	153
AN6,5X300	1,2 x 6,5	6,5 x 300	36 x 120	420	180

ANF For slotted heads - forged blades

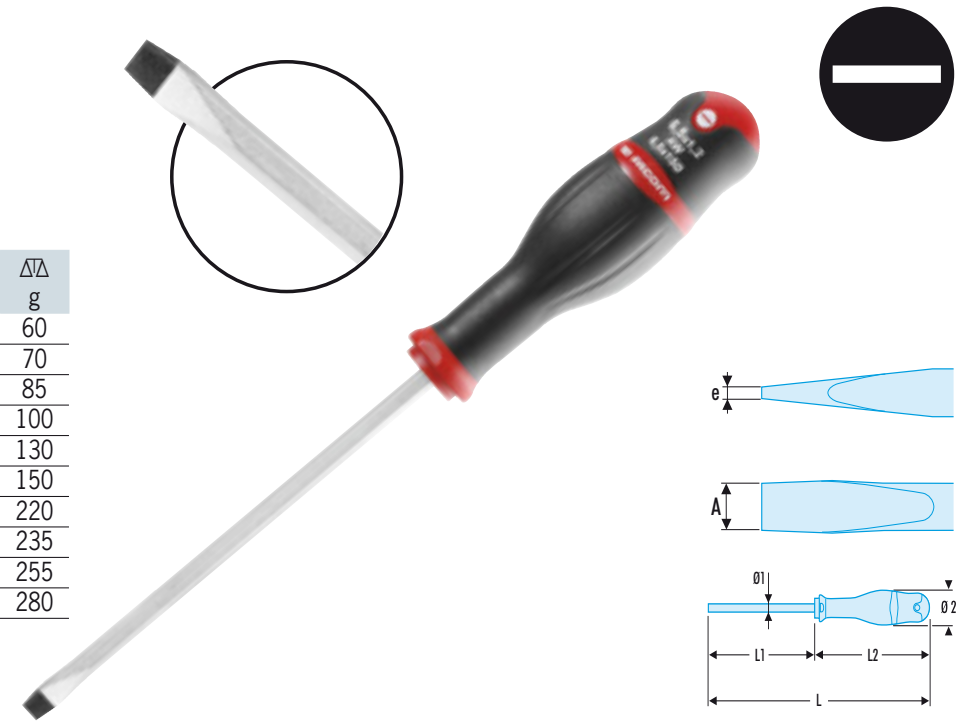
- Optimum tip grain structure for exceptional torsional strength.
- Matt chrome blade, hardened black tip.
- Extra-long blades for increased accessibility.



	e x A mm	Ø1 x L1 mm	Ø2 x L2 mm	L mm	g
ANF4X100	0,8 x 4,0	4,0 x 100	30 x 109	209	47
ANF5,5X100	1,0 x 5,5	5,5 x 100	30 x 109	209	76
ANF5,5X150	1,0 x 5,5	5,5 x 150	30 x 109	259	84
ANF6,5X100	1,2 x 6,5	6,0 x 100	36 x 120	220	120
ANF6,5X150	1,2 x 6,5	6,0 x 150	36 x 120	270	131
ANF8X150	1,2 x 8,0	7,0 x 150	40 x 125	275	149
ANF8X200	1,2 x 8,0	7,0 x 200	40 x 125	325	164
ANF10X200	1,6 x 10,0	9,0 x 200	40 x 125	325	214
ANF10X250	1,6 x 10,0	9,0 x 250	40 x 125	375	268

AW For slotted heads - hexagonal blades

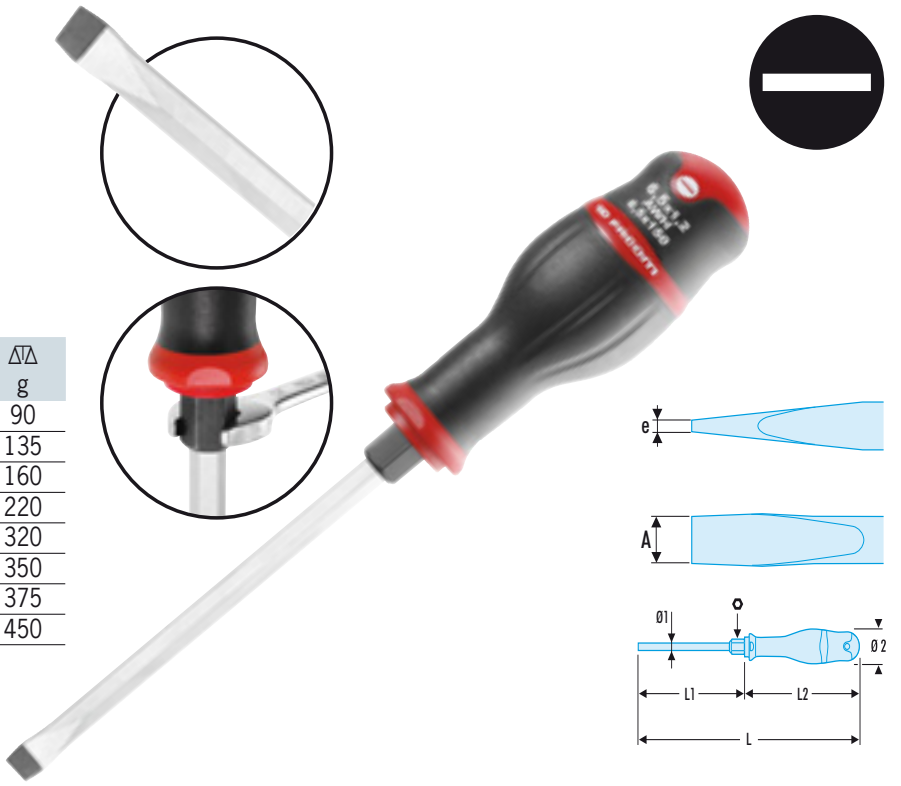
- Hexagonal blades for optimum resilience and performance.
- Matt chrome blade, hardened black tip.
- Extra-long blades for increased accessibility.



	E x A mm	1 x 1L mm	Ø2 x L2 mm	L mm	g
AW4X100	0,8 x 4,0	4,0 x 100	30 x 109	209	60
AW4X150	0,8 x 4,0	4,0 x 150	30 x 109	259	70
AW5,5X100	1,0 x 5,5	5,0 x 100	30 x 109	209	85
AW5,5X150	1,0 x 5,5	5,0 x 150	30 x 109	259	100
AW6,5X125	1,2 x 6,5	6,0 x 125	36 x 120	245	130
AW6,5X150	1,2 x 6,5	6,0 x 150	36 x 120	270	150
AW8X150	1,2 x 8,0	7,0 x 150	40 x 125	275	220
AW8X200	1,2 x 8,0	7,0 x 200	40 x 125	300	235
AW10X200	1,6 x 10,0	9,0 x 200	40 x 125	325	255
AW12X250	2,0 x 12,0	10,0 x 250	40 x 125	375	280

AWH Power series for slotted heads

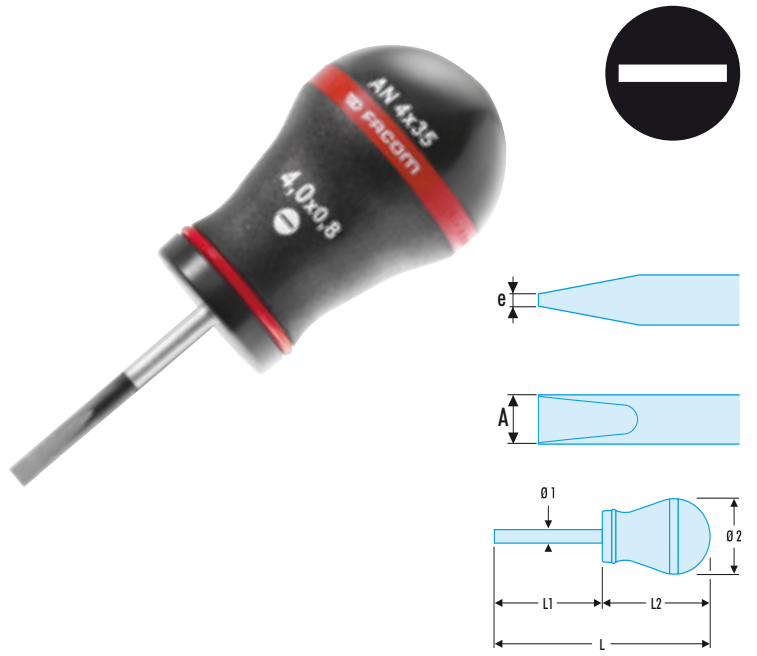
- Hexagon blade with bolster for unscrewing tight screws.
- Matt chrome blade, hardened black tip.
- Extra-long blades for increased accessibility.



	e x A mm	1 x 1L mm	Ø2 x L2 mm	L mm	mm	g
AWH5,5X125	1,0 x 5,5	5,0 x 125	30 x 109	234	8	90
AWH6,5X150	1,2 x 6,5	6,0 x 150	36 x 120	270	10	135
AWH8X175	1,2 x 8,0	7,0 x 175	40 x 125	300	11	160
AWH8EX175	1,6 x 8,0	8,0 x 175	40 x 125	300	12	220
AWH10X175	1,6 x 10,0	9,0 x 175	40 x 125	300	14	320
AWH12x200	2,0 x 12,0	10,0 x 200	40 x 125	325	14	350
AWH12X250	2,0 x 12,0	10,0 x 250	40 x 125	375	14	375
AWH14X250	2,5 x 14,0	12,0x 250	40 x 125	375	16	450

AN For slotted heads - short blades

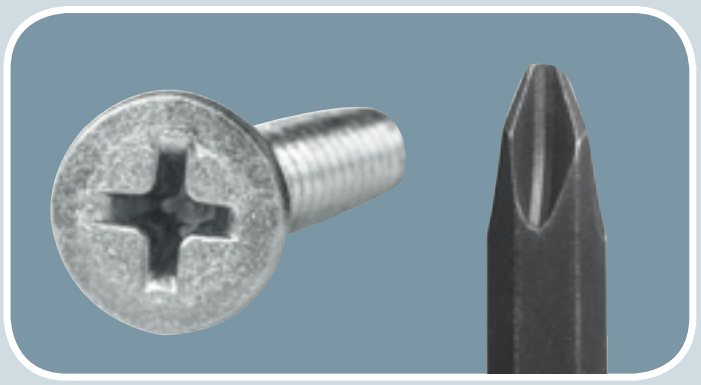
- Short round blade and stubby handle for working in confined spaces.
- Steel, chromium, silicon, manganese.



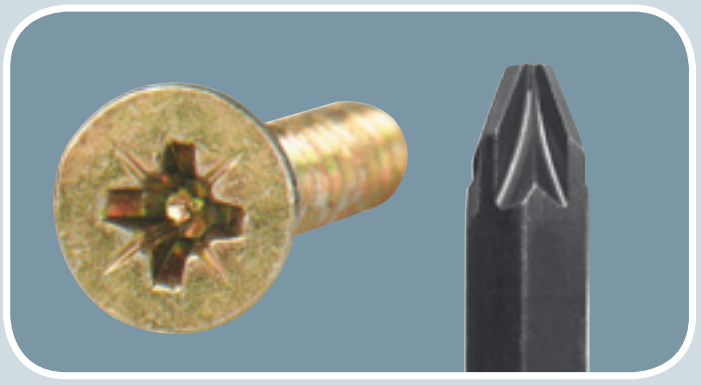
	E x A mm	Ø1 x L1 mm	Ø2 x L2 mm	L mm	g
AN4X25	0,8 x 4,0	4,0 x 25	36 x 56	81	35
AN4X35	0,8 x 4,0	4,0 x 35	36 x 56	91	36
AN5,5X35	1,0 x 5,5	5,5 x 35	36 x 56	91	41
AN6,5X35	1,2 x 6,5	6,5 x 35	36 x 56	91	46

Choosing the right screwdriver for cross-heads

POWER - DURABILITY - QUALITY



PHILLIPS® PH



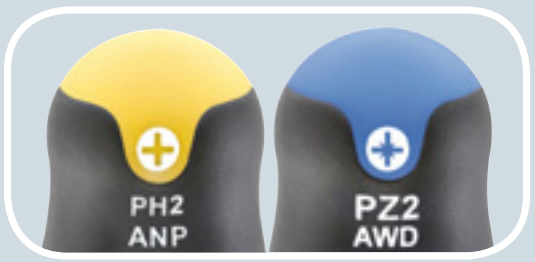
POZIDRIV® PZ

The two main cross-head types have very different profiles. Choosing the right screwdriver is crucial for :

- *Extending tool life.*
- *Protecting screw patterns.*
- *Transmitting maximum torque without wear, particularly with difficult fasteners.*

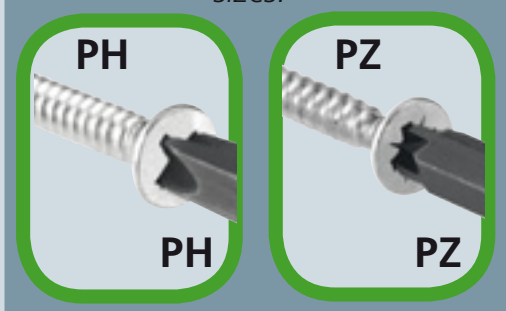
Each tip pattern has a different colour code to help you choose the right screwdriver.

Yellow for PHILLIPS® screwdrivers and blue for POZIDRIV® screwdrivers.
A pictogram of the pattern is also shown on the colour coded end.

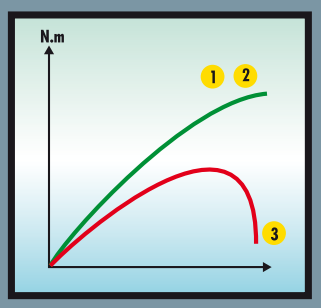


SMALL DIFFERENCES CAN HAVE A BIG EFFECT

Correct patterns and sizes.



1 2

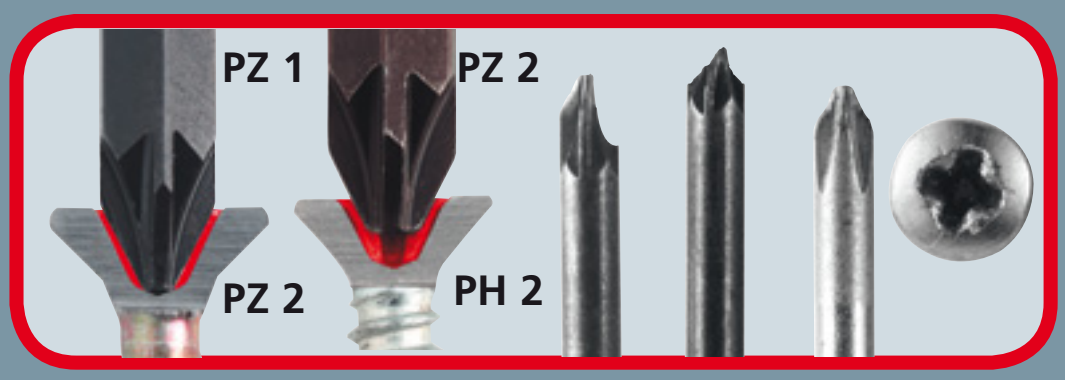


Screwdriver-to-fastener torque transmission.

Incorrect patterns or sizes.

3

Using the right screwdriver for the fastener optimises contact areas and transmits maximum torque.



Using the wrong screwdriver reduces contact areas, increases risk of wear or breakage (worn tips, broken fins) which can damage fasteners and assemblies, and may even cause injury.

Protwist® screwdrivers for Phillips® heads

ANP For Phillips® heads - round blades

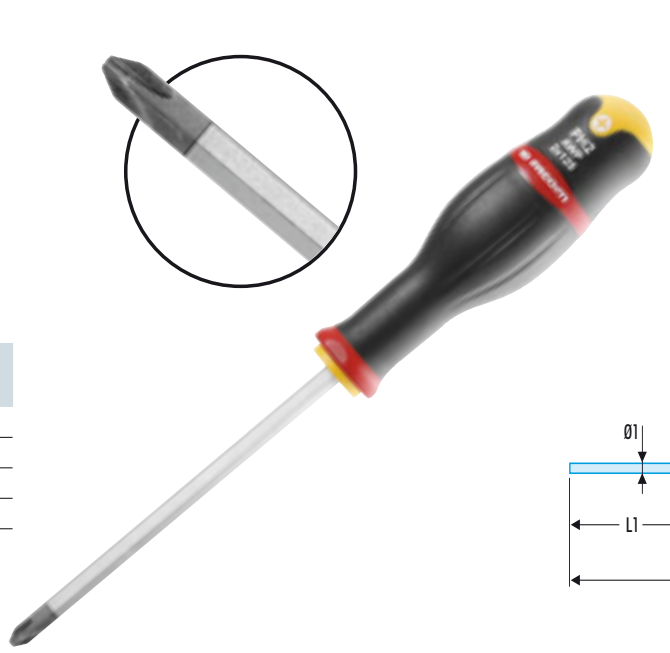
- Extra-long blades for increased accessibility.
- Matt chrome blade, hardened black tip.

	Phillips® no.	Ø1 x L1 mm	Ø2 x L2 mm	L mm	g
ANP0X75	PH.0	3,0 x 75	25 x 103	178	45
ANP1X75	PH.1	4,5 x 75	30 x 109	184	73
ANP1X100	PH.1	4,5 x 100	30 x 109	209	76
ANP1X250	PH.1	4,5 x 250	30 x 109	359	99
ANP2X100	PH.2	6,0 x 100	36 x 120	220	120
ANP2X125	PH.2	6,0 x 125	36 x 120	245	126
ANP2X250	PH.2	6,0 x 250	36 x 120	370	153
ANP2X400	PH.2	6,0 x 400	36 x 120	520	186
ANP3X150	PH.3	8,0 x 150	40 x 125	275	194
ANP4X200	PH.4	10,0 x 200	40 x 125	325	277

AWP For Phillips® heads - hexagonal blades

- Hexagonal blades for optimum resilience and performance.
- Matt chrome blade, hardened black tip.

	Phillips® no.	1 x 1L mm	Ø2 x L2 mm	L mm	g
AWP1X100	PH.1	5,0 x 100	30 x 109	209	80
AWP2X125	PH.2	6,0 x 125	36 x 120	245	130
AWP3X150	PH.3	8,0 x 150	40 x 125	275	200
AWP4X200	PH.4	10,0 x 200	40 x 125	325	280



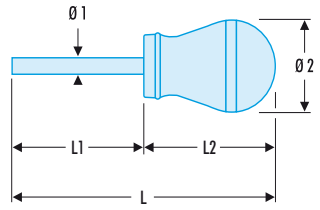
AWPH For Phillips® heads - power series

- Hexagon blade with bolster for unscrewing tight screws.
- Matt chrome blade, hardened black tip.

	Phillips® no.	1 x 1L mm	Ø2 x L2 mm	L mm	mm	g
AWPH1X100	PH.1	5,0 x 100	30 x 109	209	8	70
AWPH2X125	PH.2	6,0 x 125	36 x 120	245	10	130
AWPH3X150	PH.3	8,0 x 150	40 x 125	275	12	200
AWPH4X200	PH.4	10,0 x 200	40 x 125	325	14	280

ANP For Phillips® heads - short blades

- Short blade and stubby handle for working in confined spaces.
- Matt chrome blade, hardened black tip.

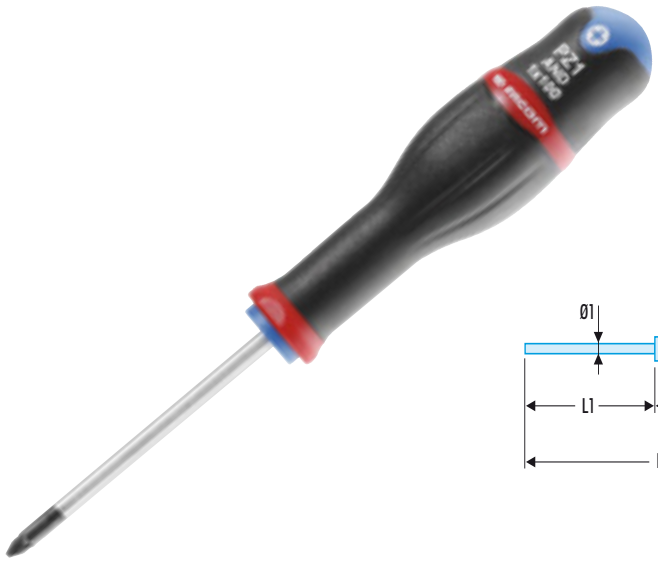


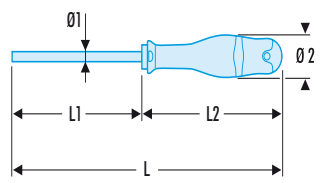
	Phillips® no.	Ø1 x L1 mm	Ø2 x L2 mm	L mm	g
ANP1X25	PH.1	4,5 x 25	36 x 56	81	38
ANP1X35	PH.1	4,5 x 35	36 x 56	91	39
ANP2X35	PH.2	6,0 x 35	36 x 56	91	44

Protwist®screwdriver for Pozidriv® heads

AND For Pozidriv® heads - round blades

- Round matt chrome blade.
- Hardened black tip.

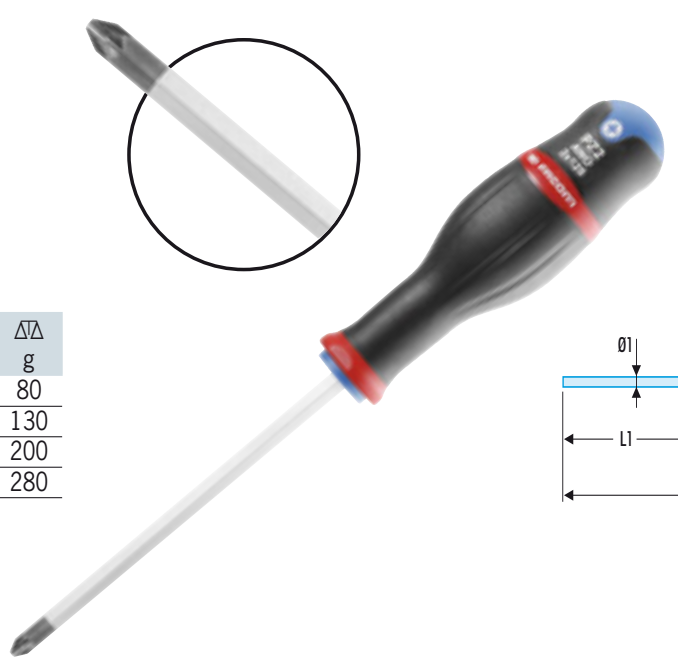


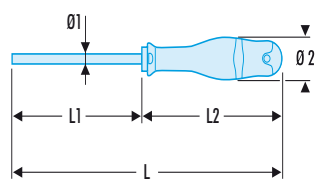


	Pozidriv® no.	Ø1 x L1 mm	Ø2 x L2 mm	L mm	g
AND0X75	PZ.0	3,0 x 75	25 x 103	178	45
AND1X75	PZ.1	4,5 x 75	30 x 109	184	73
AND1X100	PZ.1	4,5 x 100	30 x 109	209	76
AND1X250	PZ.1	4,5 x 250	30 x 109	359	99
AND2X100	PZ.2	6,0 x 100	36 x 120	220	120
AND2X125	PZ.2	6,0 x 125	36 x 120	245	126
AND2X250	PZ.2	6,0 x 250	36 x 120	370	153
AND3X150	PZ.3	8,0 x 150	40 x 125	275	194
AND4X200	PZ.4	10,0 x 200	40 x 125	325	277

AWD For Pozidriv® heads - hexagonal blades

- Hexagonal blades for optimum resilience and performance.
- Matt chrome blade, hardened black tip.



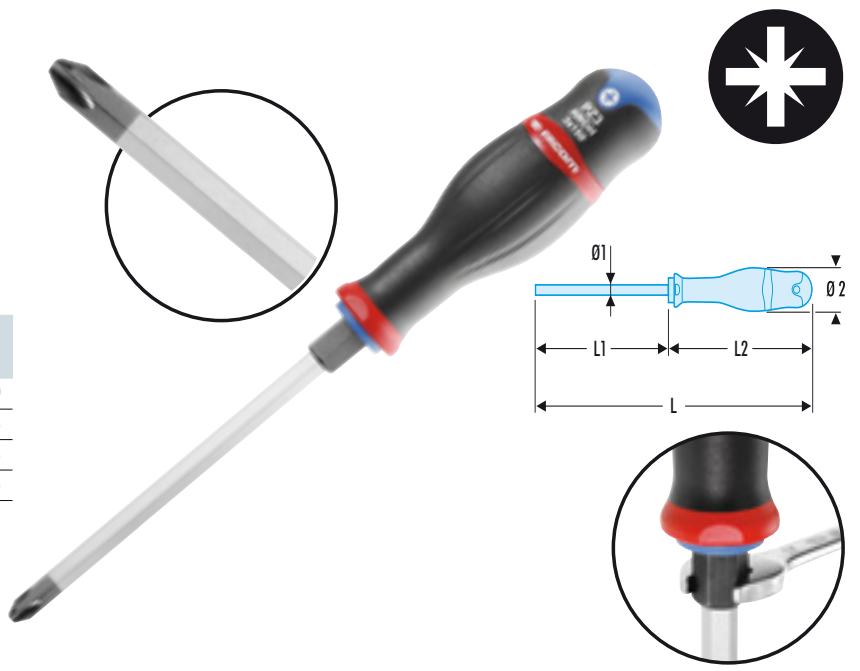


	Pozidriv® no.	⬣ 1 x 1L mm	Ø2 x L2 mm	L mm	g
AWD1X100	PZ.1	5,0 x 100	30 x 109	209	80
AWD2X125	PZ.2	6,0 x 125	36 x 120	245	130
AWD3X150	PZ.3	8,0 x 150	40 x 125	275	200
AWD4X200	PZ.4	10,0 x 200	40 x 125	325	280

Screwdrivers

AWDH For Pozidriv® heads - power series

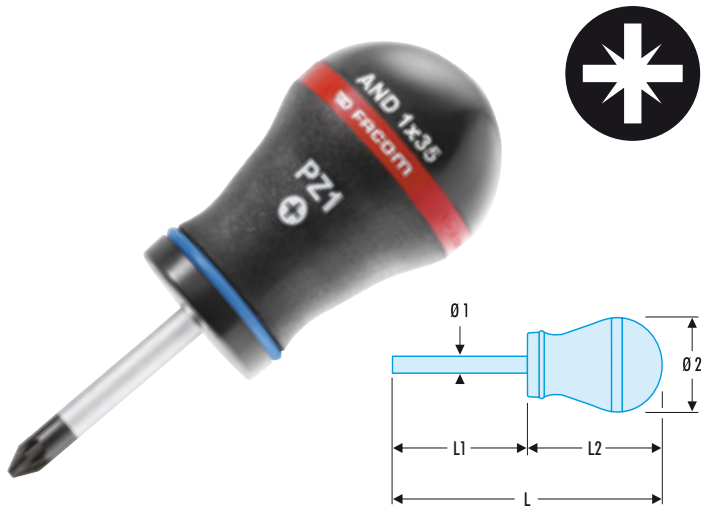
- Hexagon blade with bolster for unscrewing tight screws.
- Matt chrome blade, hardened black tip.



	Pozidriv® no.	1 x 1L mm	Ø2 x L2 mm	L mm	mm	g
AWDH1X100	PZ.1	5,0 x 100	30 x 109	209	8	209
AWDH2X125	PZ.2	6,0 x 125	36 x 120	245	10	245
AWDH3X150	PZ.3	8,0 x 150	40 x 125	275	12	275
AWDH4X200	PZ.4	10,0 x 200	40 x 125	325	14	325

AND For Pozidriv® heads - short blades

- Short round blade and stubby handle for working in confined spaces.
- Matt chrome blade, hardened black tip.

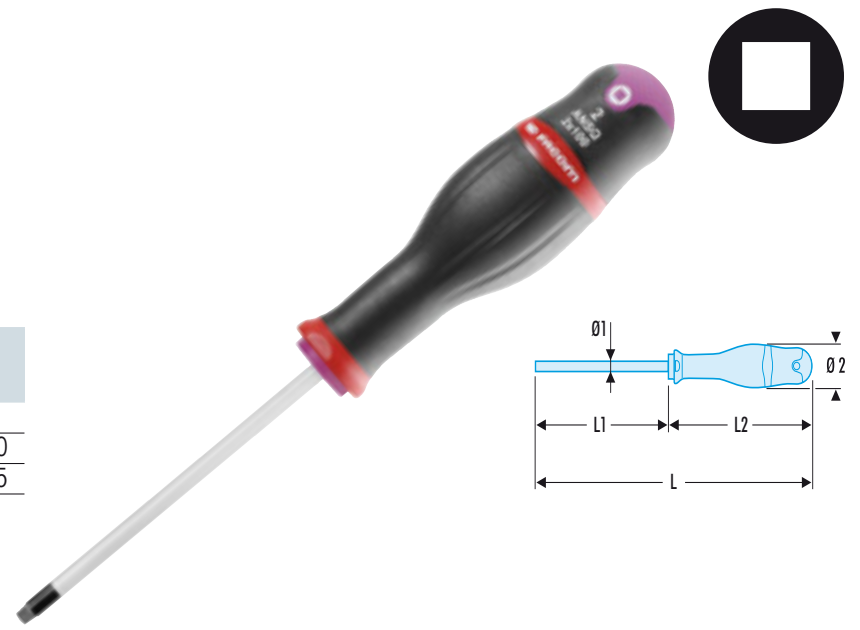


	Pozidriv® no.	Ø1 x L1 mm	Ø2 x L2 mm	L mm	g
AND1X25	PZ.1	4,5 x 25	36 x 56	81	38
AND1X35	PZ.1	4,5 x 35	36 x 56	91	40
AND2X35	PZ.2	6,0 x 35	36 x 56	91	45

Protwist® screwdrivers for square drive heads

ANSQ For square drive heads

- Matt chrome blade, hardened black tip.

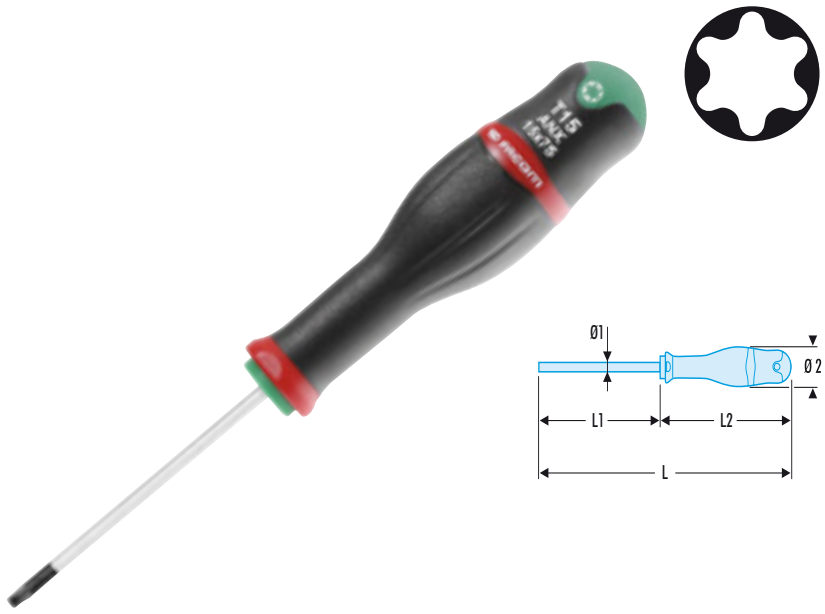


	Robertson® n°	Ø2 x L2 mm	Ø2 x L2 mm	Ø1 x L1 mm	g
ANSQ1X75	SQ 1	30 x 109	30 x 109	184	73
ANSQ2X100	SQ 2	36 x 120	220	220	5,0 x 100
ANSQ3X125	SQ 3	40 x 125	250	250	6,0 x 125

Protwist® screwdrivers for Torx® and Resistorx® heads

ANN for Torx® heads

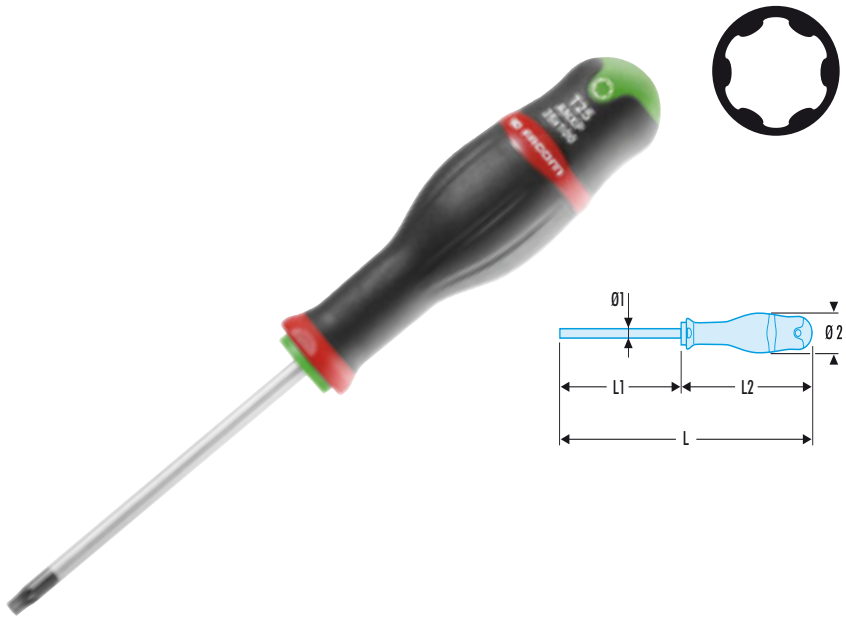
- Meets Torx® specifications.
- Matt chrome blade, hardened black tip.



	Torx N°	Ø1 x L1 mm	✱ mm	Ø2 x L2 mm	L mm	⚖ g
ANX6X50	T.6	2,5 x 50	1,65	19 x 94	144	20
ANX7X50	T.7	2,5 x 50	1,97	19 x 94	144	20
ANX8X50	T.8	2,5 x 50	2,30	25 x 103	153	35
ANX9X75	T.9	3,0 x 75	2,48	25 x 103	178	45
ANX10X75	T.10	3,0 x 75	2,74	30 x 109	184	50
ANX15X75	T.15	3,5 x 75	3,26	30 x 109	184	61
ANX20X100	T.20	4,0 x 100	3,84	36 x 120	220	67
ANX20X150	T.20	4,0 x 150	3,84	36 x 120	270	73
ANX25X100	T.25	5,0 x 100	4,40	36 x 120	220	113
ANX27X100	T.27	5,5 x 100	4,96	36 x 120	220	113
ANX30X125	T.30	6,0 x 125	5,49	36 x 120	245	126
ANX40X150	T.40	7,0 x 150	6,60	40 x 125	275	173

ANXP for Torx Plus® heads

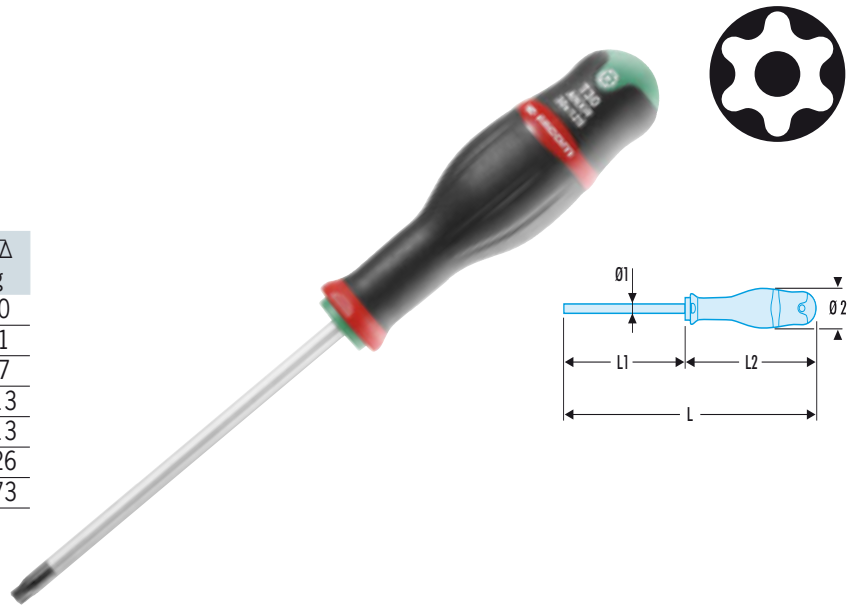
- Meets Torx Plus® specifications.
- Matt chrome blade, hardened black tip.



	Torx® n°	✱ mm	Ø1 x L1 mm	Ø2 x L2 mm	L mm	⚖ g
ANXP5X50	IP 5	1,42	2,5 x 50	19 x 95	144	20
ANXP6X50	IP 6	1,65	2,5 x 50	19 x 95	144	20
ANXP7X50	IP 7	1,97	2,5 x 50	19 x 95	144	20
ANXP8X50	IP 8	2,30	2,5 x 50	25 x 103	153	35
ANXP9X75	IP 9	2,48	3,0 x 75	25 x 103	178	45
ANXP10X75	IP 10	2,74	3,0 x 75	30 x 109	184	50
ANXP15X75	IP 15	3,26	3,5 x 75	30 x 110	184	61
ANXP20X100	IP 20	3,84	4,0 x 100	36 x 120	220	67
ANXP25X100	IP 25	4,40	5,0 x 100	36 x 120	220	113
ANXP27X100	IP 27	4,96	5,5 x 100	36 x 120	220	113
ANXP30X125	IP 30	5,49	6,0 x 125	36 x 120	245	126
ANXP40X150	IP 40	6,60	7,0 x 150	40 x 125	275	173

ANXR For Resistorx® heads

- Meets Resistorx® specifications.
- Matt chrome blade, hardened black tip.



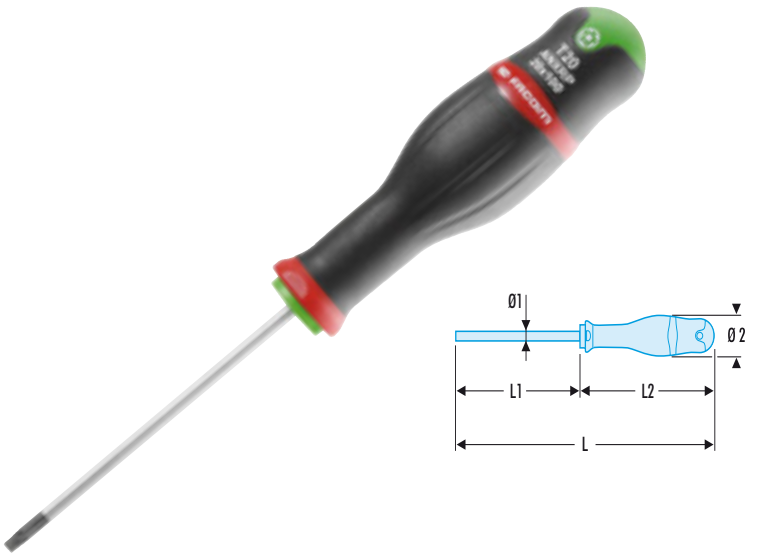
	Resistorx® n°	✱ mm	Ø1 x L1 mm	Ø2 x L2 mm	L mm	⚖ g
ANXR10X75	TT 10	2,74	3,0 x 75	25 x 109	184	50
ANXR15X75	TT 15	3,26	3,5 x 75	30 x 110	185	61
ANXR20X100	TT 20	3,84	4,0 x 100	36 x 120	220	67
ANXR25X100	TT 25	4,40	5,0 x 100	36 x 120	220	113
ANXR27X100	TT 27	4,96	5,5 x 100	36 x 120	220	113
ANXR30X125	TT 30	5,49	6,0 x 125	36 x 120	245	126
ANXR40X150	TT 40	6,60	7,0 x 150	40 x 125	275	173

Screwdrivers

ANXRP for Torx Plus® Tamper Resistant heads

- Meets Torx Plus® specfications.
- Matt chrome blade, hardened black tip.

	Resistorx® n°	I✱ mm	Ø1 x L1 mm	Ø2 x L2 mm	L mm	ΔΔ g
ANXRP10X75	T 10	2,74	3,0 x 75	30 x 109	184	50
ANXRP15X75	T 15	3,26	3,5 x 75	30 x 110	185	61
ANXRP20X100	T 20	3,84	4,0 x 100	36 x 120	220	67
ANXRP25X100	T 25	4,40	5,0 x 100	36 x 120	220	113
ANXRP27X100	T 27	4,96	5,5 x 100	36 x 120	220	113
ANXRP30X125	T 30	5,49	6,0 x 125	36 x 120	245	126
ANXRP40X140	T 40	6,60	7,0 x 150	40 x 125	275	173



Set of Protwist® screwdrivers - sand-blasted tips

6-piece set of screwdrivers for slotted and Phillips® heads

ASP.J6

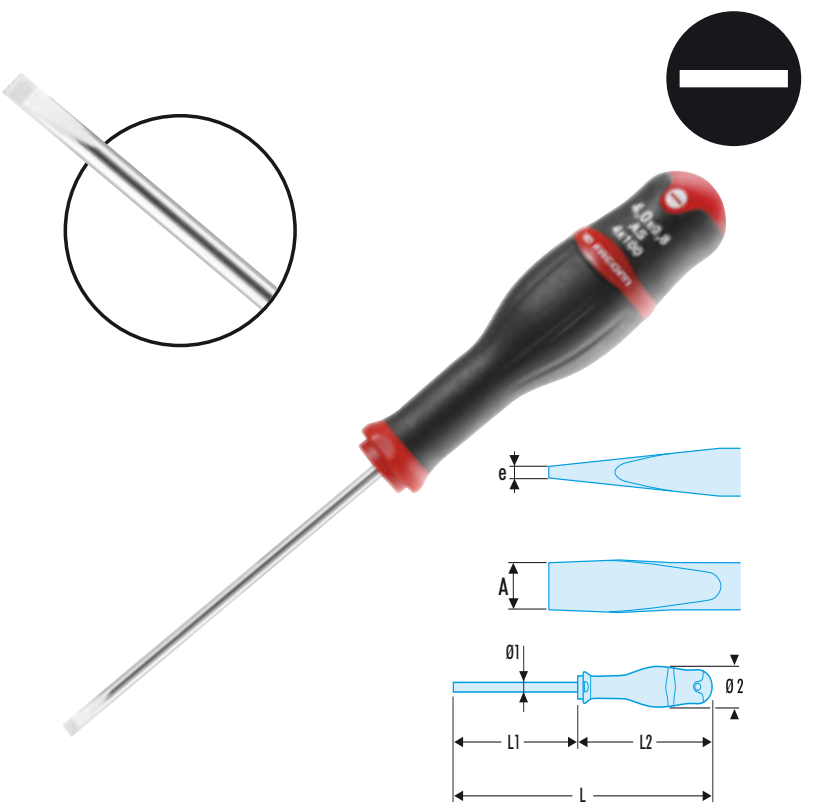
	Qty	Contents
ASP.J6	6	⊖ AS3,5X75 - AS4X100 - AS5,5X100 - ASF6,5X150 ✪ ASP1X100 - ASP2X125

Protwist® screwdrivers - sand-blasted tips

AS - ASF For slotted heads

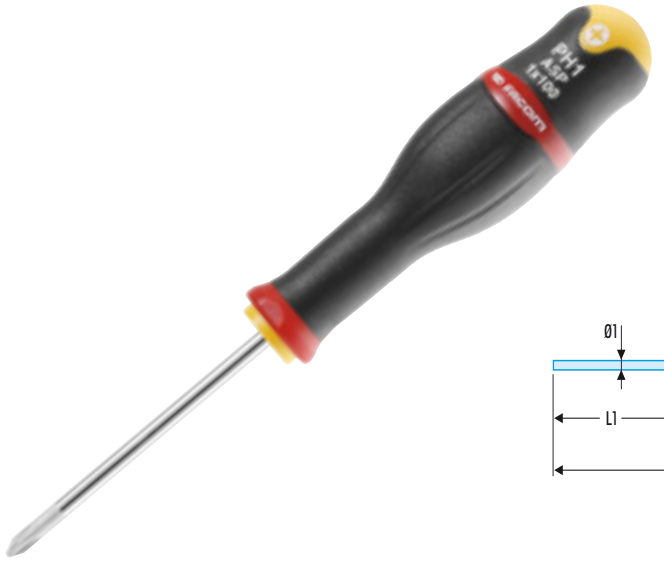
- Shiny chrome blade, sand-blasted tip.
- AS : machined blades - ASF : forged blades.

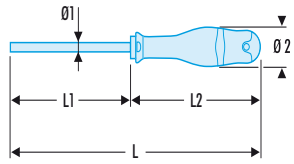
	E x A mm	Ø1 x L1 mm	Ø2 x L2 mm	L mm	ΔΔ g
AS2,5X75	0,4 x 2,5	2,5 x 75	19 x 95	170	21
AS3,5X75	0,6 x 3,5	3,5 x 75	25 x 104	179	41
AS3,5X100	0,6 x 3,5	3,5 x 100	25 x 104	204	43
AS4X100	0,8 x 4,0	4,0 x 100	30 x 109	209	47
AS5,5X100	1,0 x 5,5	5,5 x 100	30 x 110	210	82
AS5,5X150	1,0 x 5,5	5,5 x 150	30 x 110	260	91
AS6,5X150	1,2 x 6,5	6,5 x 150	36 x 120	270	140
ASF5,5X100	1,0 x 5,5	5,0 x 100	30 x 110	210	76
ASF6,5X150	1,2 x 6,5	6,0 x 150	36 x 120	270	120
ASF8X150	1,2 x 8,0	7,0 x 150	40 x 125	275	149
ASF10X200	1,6 x 10,0	9,0 x 200	40 x 125	325	214



ASP for Phillips® heads

- Shiny chrome blade, sand-blasted tip.

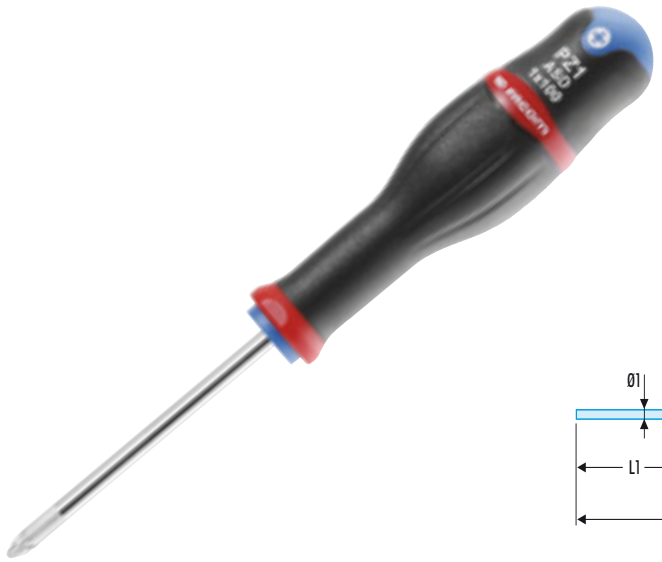


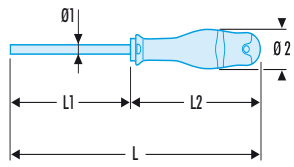


	Phillips® n°	Ø1 x L1 mm	Ø2 x L2 mm	L mm	⧋ g
ASP0X75	PH 0	3,0 x 75	25 x 104	179	45
ASP1X100	PH 1	4,5 x 100	30 x 110	210	76
ASP2X125	PH 2	6,0 x 125	36 x 120	245	126
ASP3X150	PH 3	8,0 x 150	40 x 125	275	194

ASD for Pozidriv® heads

- Shiny chrome blade, sand-blasted tip.

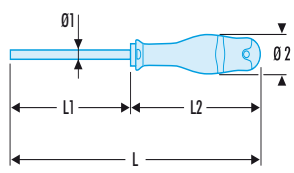




	Pozidriv® n°	Ø1 x L1 mm	Ø2 x L2 mm	L mm	⧋ g
ASD0X75	PZ 0	3,0 x 75	25 x 104	179	45
ASD1X100	PZ 1	4,5 x 100	30 x 110	210	76
ASD2X125	PZ 2	6,0 x 125	36 x 120	245	126
ASD3X150	PZ 3	8,0 x 150	40 x 125	275	194

ASX for Torx® heads

- Meets Torx® specifications.
- Shiny chrome blade, sand-blasted tip.



	Torx® n°	⌶ mm	Ø1 x L1 mm	Ø2 x L2 mm	L mm	⧋ g
ASX10X75	T 10	2,74	3,0 x 75	30 x 109	184	50
ASX15X75	T 15	3,26	3,5 x 75	30 x 110	185	61
ASX20X100	T 20	3,84	4,0 x 100	36 x 120	220	73
ASX25X100	T 25	4,40	5,0 x 100	36 x 120	220	113
ASX30X125	T 30	5,49	6,0 x 125	36 x 120	245	126

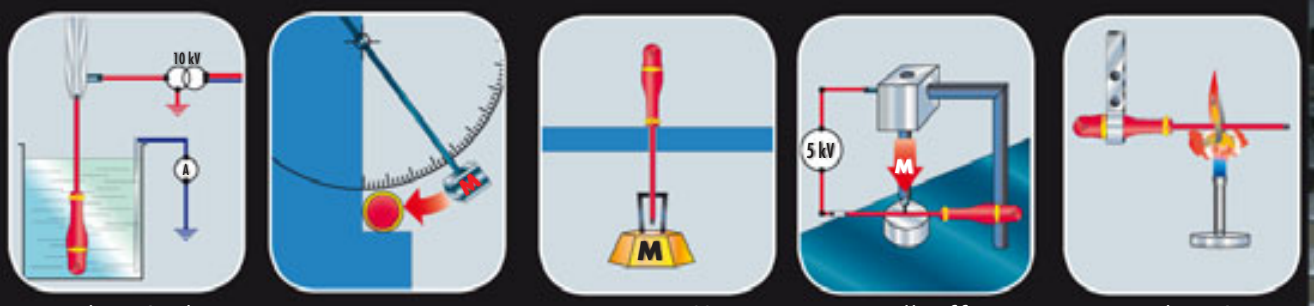
New Screwdriver Protwist®

1000 VOLTS EN 60900

FACOM VE-SERIES 1,000 V SCREWDRIVERS

Tools built for electrical safety to European standard EN 60900 specifications, and designed for working on live components up to 1,000 V AC and 1,500 V DC For your safety, every screwdriver is tested to 10,000 V for 10 seconds at the end of the manufacturing cycle.

Tested in accordance with EN 60900.



Electrical resistance | *Impact resistance* | *Pull-off resistance* | *Pull-off resistance* | *Combustion test*

Safety first

Working on live components is hazardous. For your safety it is important that you

- *Ensure that the insulation is not damaged by :*
  - *heat (-20 to 70° working temperature),*
  - *chemicals,*
  - *cuts or perforations.*
- *Visually check insulation before use.*

1,000 V insulated Protwist® sets and modules

A.VE 1,000 V insulated screwdriver sets

	Number of screwdrivers	Contents
AD.J5VE	5	⊖ A3,5x100VE - A4x100VE - A5,5x125VE ✪ AD1x100VE - AD2x125VE
AP.J5VE	5	⊖ A3,5x100VE - A4x100VE - A5,5x125VE ✪ AP1x100VE - AP2x125VE
AD.J8VE	8	⊖ A2,5x75VE - A3x75VE - A3,5x75VE - A4x100VE - A5,5x125VE- A6,5x150VE ✪ AD1x100VE - AD2x125VE

8-piece 1,000 V insulated screwdriver module

MOD.A1VE

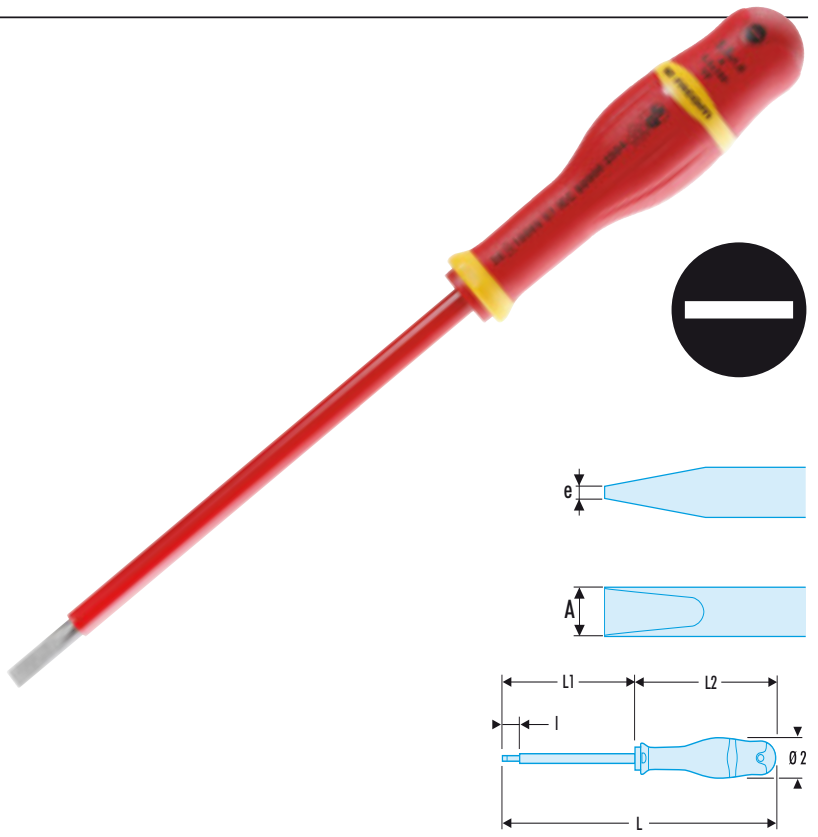
	Number of screwdrivers	Contents	Tray
MOD.A1VE	8	⊖ A3,5x100VE - A4x100VE - A5,5x125VE - A6,5x150VE ✪ AP1x100VE - AP2x125VE ✪ AD1x100VE - AD2x125VE	PL.764

Protwist® 1,000 V insulated screwdrivers for slotted heads

A.VE For slotted heads

▷ NF ISO 2380-1, NF ISO 2380-2, DIN ISO 2380-1, DIN ISO 2380-2.
• 1,000 V sheathed round blade.
• Machined blade up to 5.5 inclusive. Hollowed blade from 6.5 to 12.

	E x A mm	l x L1 mm	Ø2 x L2 mm	L mm	⚖ g
A2X75VE	0,4 x 2,0	18 x 40	19 x 95	170	23
A2,5X50VE	0,4 x 2,5	18 x 50	25 x 103	153	30
A2,5X75VE	0,4 x 2,5	18 x 75	25 x 103	178	32
A3X75VE	0,5 x 3,0	18 x 75	25 x 103	178	38
A3X100VE	0,5 x 3,0	18 x 100	25 x 103	202	39
A3,5X75VE	0,6 x 3,5	18 x 75	25 x 104	179	42
A3,5X100VE	0,6 x 3,5	18 x 100	25 x 104	204	44
A4X100VE	0,8 x 4,0	18 x 100	30 x 110	210	48
A4X150VE	0,8 x 4,0	18 x 150	30 x 110	260	53
A5,5X125VE	1,0 x 5,5	18 x 125	30 x 110	235	88
A5,5X150VE	1,0 x 5,5	18 x 150	30 x 110	260	92
A5,5X200VE	1,0 x 5,5	18 x 200	30 x 110	310	106
A6,5X150VE	1,2 x 6,5	18 x 150	36 x 120	270	120
A6,5X200VE	1,2 x 6,5	18 x 200	36 x 120	320	170
A8X150VE	1,2 x 8,0	18 x 150	40 x 125	275	160
A8X200VE	1,2 x 8,0	18 x 200	40 x 125	325	180
A10X200VE	1,6 x 10,0	18 x 200	40 x 125	325	240
A12X250VE	2,0 x 12,0	18 x 250	40 x 125	375	360

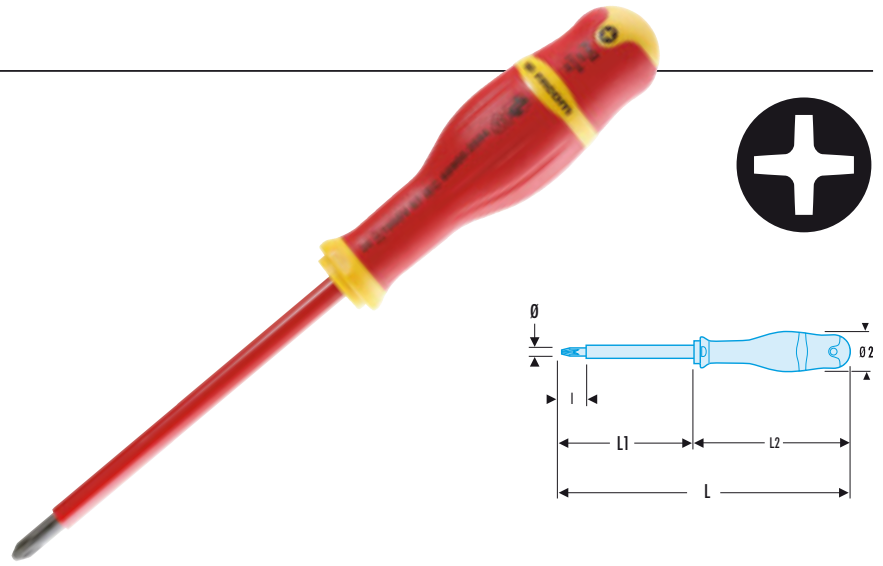


1,000 V insulated Protwist® screwdrivers for cross-heads

AP.VE For Phillips® heads

▷ NF ISO 8764-1, NF ISO 8764-2, DIN ISO 8764-1, DIN ISO 8764-2.
• 1,000 V sheathed round blade.

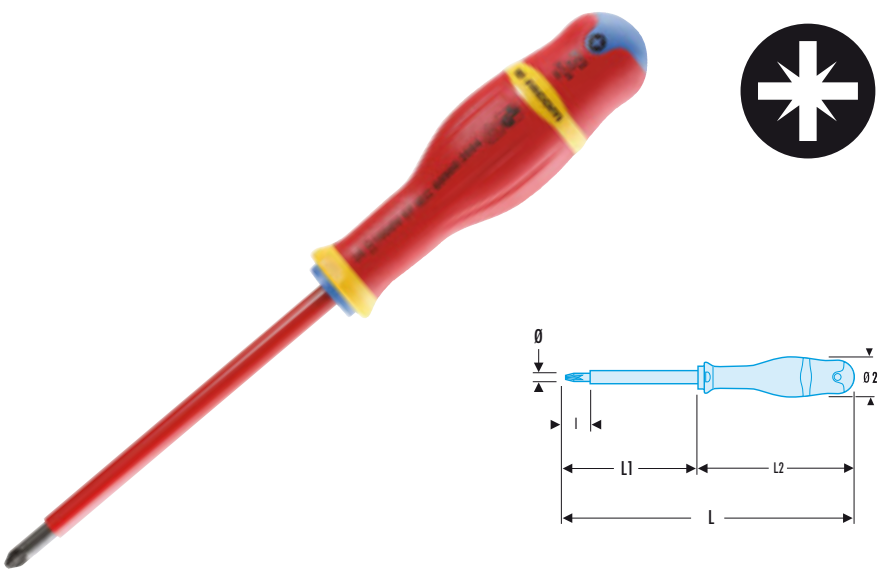
	Phillips® no.	Ø mm	l x L1 mm	Ø2 x L2 mm	L mm	⚖ g
AP0X75VE	PH.0	3	18 x 75	25 x 104	179	46
AP1X100VE	PH.1	4,5	18 x 100	30 x 110	210	77
AP2X125VE	PH.2	6	18 x 125	36 x 120	245	127
AP3X150VE	PH.3	8	18 x 150	40 x 125	275	195
AP4X200VE	PH.4	10	18 x 200	40 x 125	325	278



AD.VE For Pozidriv® heads

▷ NF ISO 8764-1, NF ISO 8764-2, DIN ISO 8764-1, DIN ISO 8764-2.
• 1,000 V sheathed round blade.

	Pozidriv® no.	Ø mm	l x L1 mm	Ø2 x L2 mm	L mm	⚖ g
AD0X75VE	PZ.0	3	18 x 75	25 x 104	179	46
AD1X100VE	PZ.1	4,5	18 x100	30 x 109	209	77
AD2X125VE	PZ.2	6	18 x 125	36 x 120	245	127
AD3X150VE	PZ.3	8	18 x 150	40 x 125	275	195



1,000 V insulated screwdrivers

1000 VOLTS EN 60900

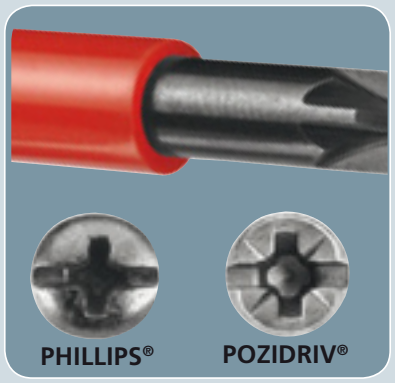
Borneo®

Special screwdrivers for combination pattern heads used on switchgear.

Special pattern
- *Specific driver pattern suitable for switches, relays, circuit-breakers, boxes, terminals, etc.*

Powerful tightening
- *Torque transmission considerably higher than with a conventional screwdriver.*

Drive integrity
- *More positive coupling preventing slippage, reduced wear of both fastener and screwdriver.*
- *More secure fit avoiding damage to enclosures and casings.*



Safety first

1,000 V safety
- *Screwdrivers to European standard EN 60900.*
- *Most switchgear has combination Pozidriv®/slotted heads (Facom ADB series screwdrivers), but some uses Phillips®/slotted heads (Facom APB series screwdrivers). Clean results can only be achieved with correct screwdriver/fastener contact.*

BORNEO® screwdriver sets for electrical terminals

AB.VE Borneo® combination head screwdriver sets

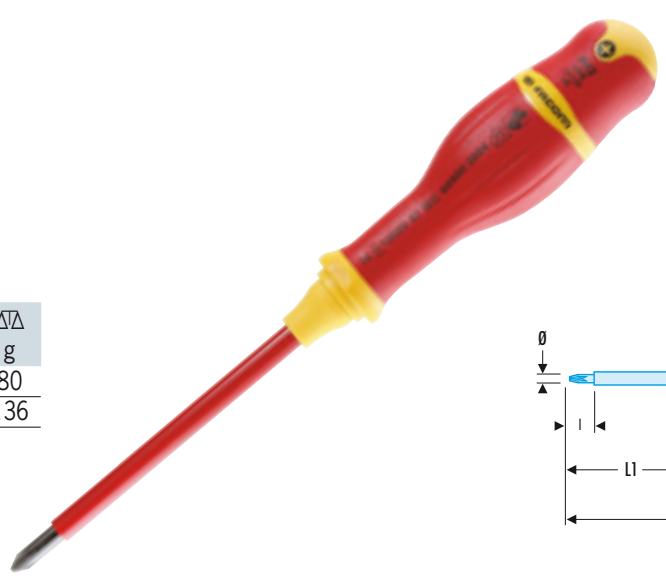
• Supplied in a box..

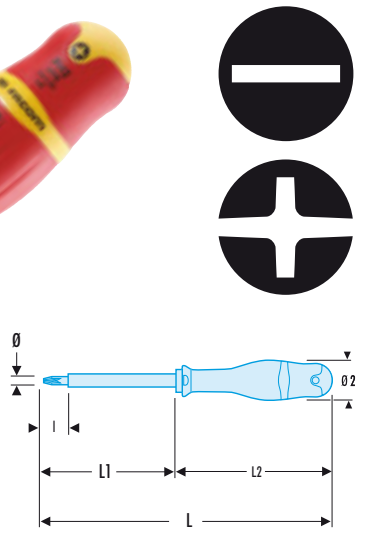
	Qty	Contents
AB.J4VE	4	⊖/✪ APB1X100VE - APB2X125VE ⊖/✪ ADB1X100VE - ADB2X125VE
ADB.J7VE	7	⊖/✪ ADB1X100VE - ADB2X125VE ⊖ A2,5X75VE - A3,5X100VE - A4X100VE - A5,5X125VE - A6,5X150VE
APB.J7VE	7	⊖/✪ APB1X100VE - APB2X125VE⊖ A2,5X75VE - A3,5X100VE - A4X100VE - A5,5X125VE - A6,5X150VE

BORNEO® screwdrivers for electrical terminals

APB For slotted/Phillips® heads

- Designed for screws with combination heads used on electrical terminals.
- More powerful tightening enhances safety.
- Positive engagement reduces slippage and wear.
- Longer service life.

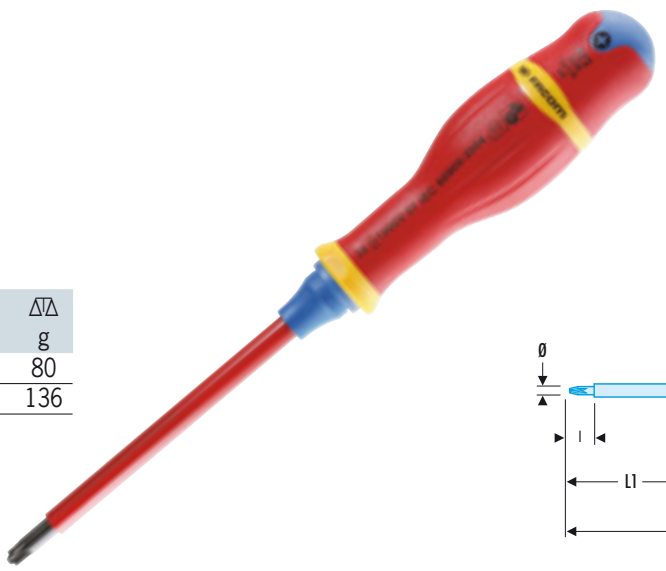


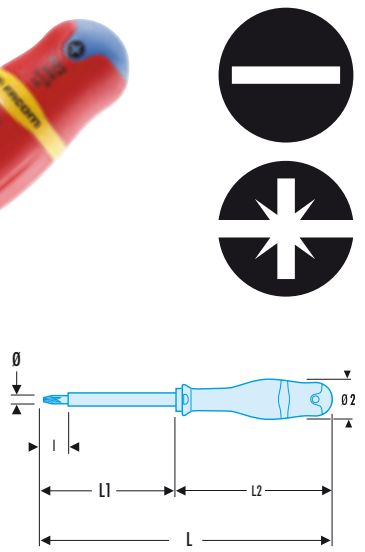


	Phillips® no.	Ø mm	l x L1 mm	Ø2 x L2 mm	L mm	g
APB1X100VE	PH.1	5	18 x 100	30 x 110	210	80
APB2X125VE	PH.2	6	18 x 125	36 x 120	245	136

ADB For slotted/Pozidriv® heads

- Designed for screws with combination heads used on electrical terminals.
- More powerful tightening enhances safety.
- Positive engagement reduces slippage and wear.
- Longer service life.





	Pozidriv® no.	Ø mm	l x L1 mm	Ø2 x L2 mm	L mm	g
ADB1X100VE	PZ.1	5	18 x 100	30 x 110	210	80
ADB2X125VE	PZ.2	6	18 x 125	36 x 120	245	136

ISORYL screwdriver sets

ISORYL screwdriver sets

▷ NF ISO 2380-1, NF ISO 2380-2, DIN ISO 2380-1, DIN ISO 2380-2, NF ISO 8764-1, NF ISO 8764-2, DIN ISO 8764-1, DIN ISO 8764-2.

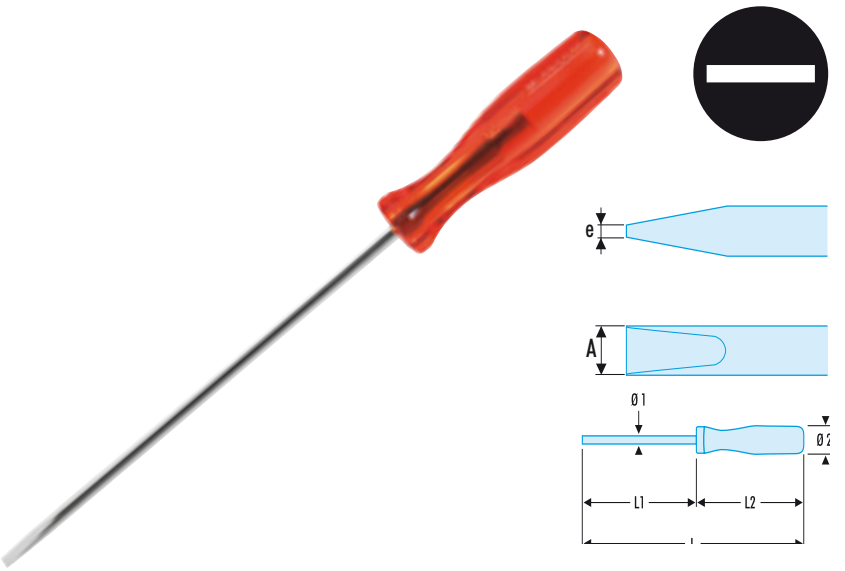
				Contents	Number of screwdrivers	g
AR.J5	•			AR.3x75 - 4x100 - 5,5x100 6,5x150 - 8x200	5	406
AS.4		•		AP.0x50 - 1x75 - 2x100 3x150 - 4x200	5	685
AT.J9			•	AR.3x75 - 3,5x100 - 4x100 AP.0x50 - 1x75 - 2x100 O 84,2 - 2,5 - 3	9	300
AJ.3	•			AR.3,5x75 - 4x100 - 5,5x100 6,5x150 AG.8x150 - 8Ex200 - 3,5x100VE AP.1x75 - 2x100 - 3x150 AD.1x75 - 2x100 - 3x150 AF	14	1210
AS.15		•		AR.3,5x75 - 4x100 - 5,5x100 6,5x150 AG.8x150 - 8Ex200 - 3,5x100VE AP.1x75 - 2x100 - 3x150 AD.1x75 - 2x100 - 3x150 AF (pose vis)	14	1460

ISORYL screwdrivers for slotted heads

AR For slotted heads - machined blades

- Shank machined for access into recesses.
- Polished chrome finish.

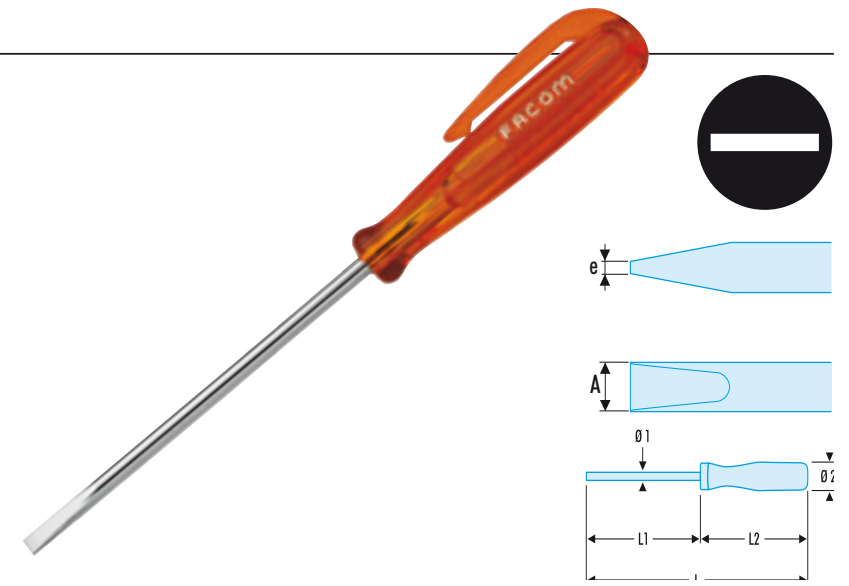
	e x A mm	t mm	Ø1 x L1 mm	Ø2 x L2 mm	L mm	⏢ g
AR.2X40	0,4 x 2	0,2	2 x 40	16 x 70	110	13,5
AR.2,5X50	0,4 x 2,5	0,2	2,5 x 50	16 x 70	120	15
AR.2,5X75	0,4 x 2,5	0,2	2,5 x 75	16 x 70	145	16
AR.3X75	0,5 x 3	0,3	3 x 75	16 x 70	145	17,5
AR.3,5X75	0,6 x 3,5	0,4	3,5 x 75	20,5 x 80	155	31
AR.3,5X100	0,8 x 4	0,4	3,5 x 100	20,5 x 80	180	33
AR.4X100	0,8 x 4	0,5	4 x 100	24 x 90	190	45
AR.4X150	0,8 x 4	0,5	4 x 150	24 x 90	240	50
AR.5,5X100	1 x 5,5	0,6	5,5 x 100	28 x 100	200	71
AR.5,5X150	1 x 5,5	0,6	5,5 x 150	28 x 100	250	80
AR.6,5X100	1,2 x 6,5	0,7	6,5 x 100	30 x 110	210	102
AR.6,5X150	1,2 x 6,5	0,7	6,5 x 150	30 x 110	260	114
AR.8X150	1,2 x 8	0,7	8 x 150	30 x 110	260	141



ARA For slotted heads - pocket clip handle

- Polished chrome finish.

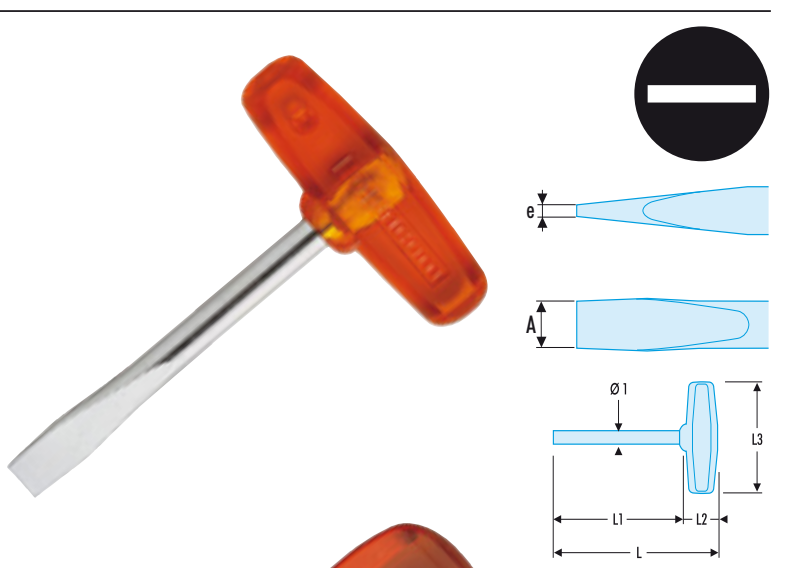
	e x A mm	t mm	Ø1 x L1 mm	Ø2 x L2 mm	L mm	⏢ g
ARA.2,5X50	0,4 x 2,5	0,2	2,5 x 50	13 x 60	110	10
ARA.2,5X75	0,4 x 2,5	0,2	2,5 x 75	13 x 60	135	11
ARA.3,5X50	0,6 x 3,5	0,4	3,5 x 50	13 x 60	110	12
ARA.3,5X75	0,6 x 3,5	0,4	3,5 x 75	13 x 60	135	14



AGT For slotted heads - forged blades - Tee handle

- High torque capability.
- Chrome finish.

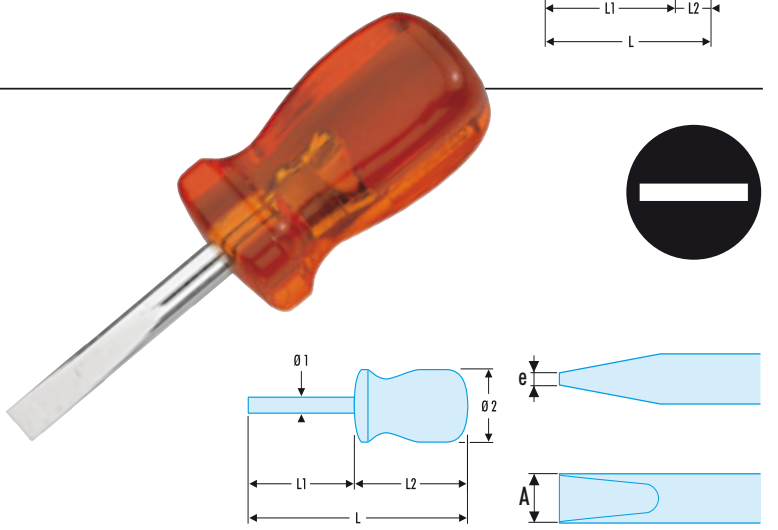
	e x A mm	t mm	L2 x L3 mm	Ø1 x L1 mm	L mm	⏢ g
AGT.8X100	1,2 x 8	1	30 x 85	8 x 100	130	150
AGT.10X100	1,6 x 10	1	30 x 85	10 x 100	130	160



ARB For slotted heads - short blades

- For use in confined spaces.
- Polished chrome finish.

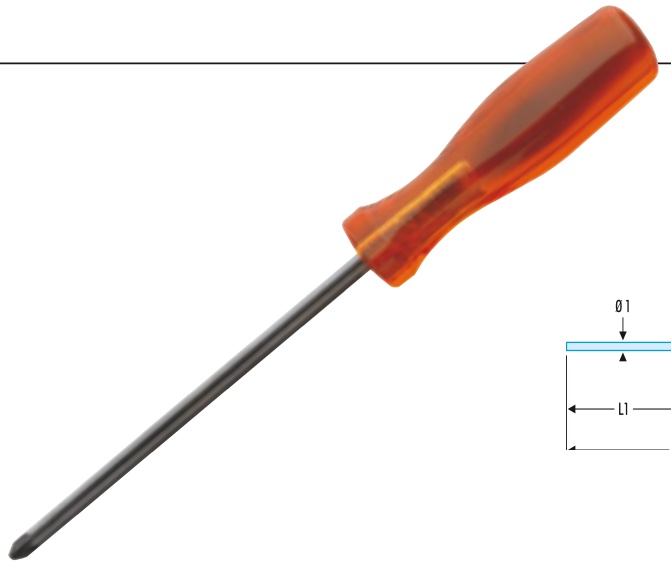
	e x A mm	t mm	Ø1 x L1 mm	Ø2 x L2 mm	L mm	⏢ g
ARB.4X40	0,8 x 4	0,5	4,0 x 40	29 x 50	90	38
ARB.5,5X40	1,0 x 5,5	0,6	5,5 x 40	29 x 50	90	39
ARB.6,5X40	1,2 x 6,5	0,7	6,5 x 40	29 x 50	90	42

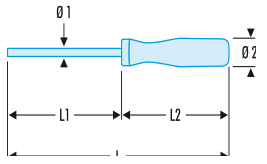


ISORYL screwdrivers for Pozidriv® heads

AD For Pozidriv® heads

- High-strength alloy steel blade.
- Burnished finish.

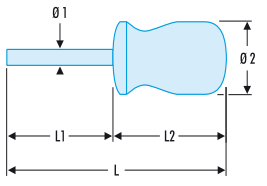




	Pozidriv® no.	Ø1 x L1 mm	Ø2 x L2 mm	L mm	g
AD.0X50	PZ.0	4 x 50	20,5 x 80	130	31
AD.1X75	PZ.1	4 x 75	24 x 90	165	55
AD.2X100	PZ.2	6 x 100	28 x 100	200	77
AD.2X125	PZ.2	6 x 125	28 x 100	225	81
AD.3X150	PZ.3	8 x 150	30 x 110	260	142

ADB For Pozidriv® heads - short blades

- For use in confined spaces.
- Burnished finish.

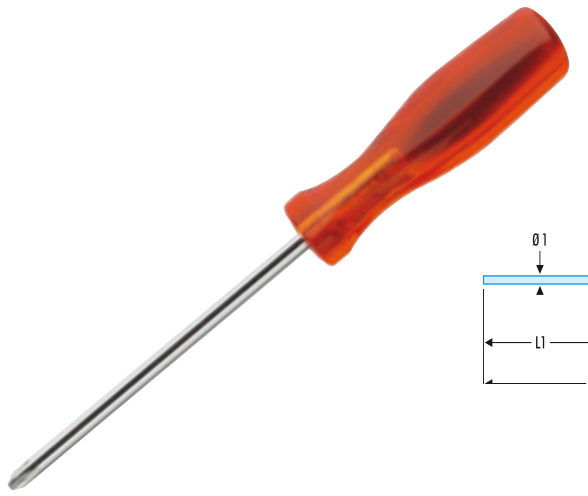


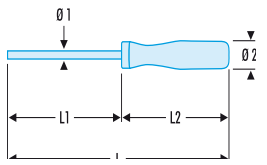
	Pozidriv® no.	Ø1 x L1 mm	Ø2 x L2 mm	L mm	g
ADB.1X40	PZ.1	5 x 40	29 x 50	90	38
ADB.2X40	PZ.2	6 x 40	29 x 50	90	44

ISORYL screwdrivers for Phillips® heads

AP For Phillips® heads

- Chrome finish.

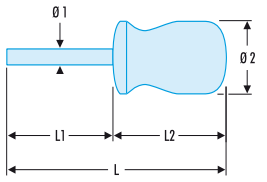




	Phillips® no.	Ø1 x L1 mm	Ø2 x L2 mm	L mm	g
AP.0X50	PH.0	4 x 50	20,5 x 80	130	31
AP.0X75	PH.0	4 x 75	20,5 x 80	155	33
AP.1X75	PH.1	5 x 75	24 x 90	165	55
AP.1X100	PH.1	5 x 100	24 x 90	190	59
AP.2X100	PH.2	6 x 100	28 x 100	200	77
AP.2X125	PH.2	6 x 125	28 x 100	225	81
AP.3X150	PH.3	8 x 150	30 x 110	260	142
AP.4X200	PH.4	10 x 200	34 x 120	320	246

APB For Phillips® heads - short blades

- For use in confined spaces.
- Chrome finish.



	Phillips® no.	Ø1 x L1 mm	Ø2 x L2 mm	L mm	g
APB.0X40	PH.0	4 x 40	29 x 50	90	33
APB.1X40	PH.1	5 x 40	29 x 50	90	36
APB.2X40	PH.2	6 x 40	29 x 50	90	40

Wood-handle screwdriver sets

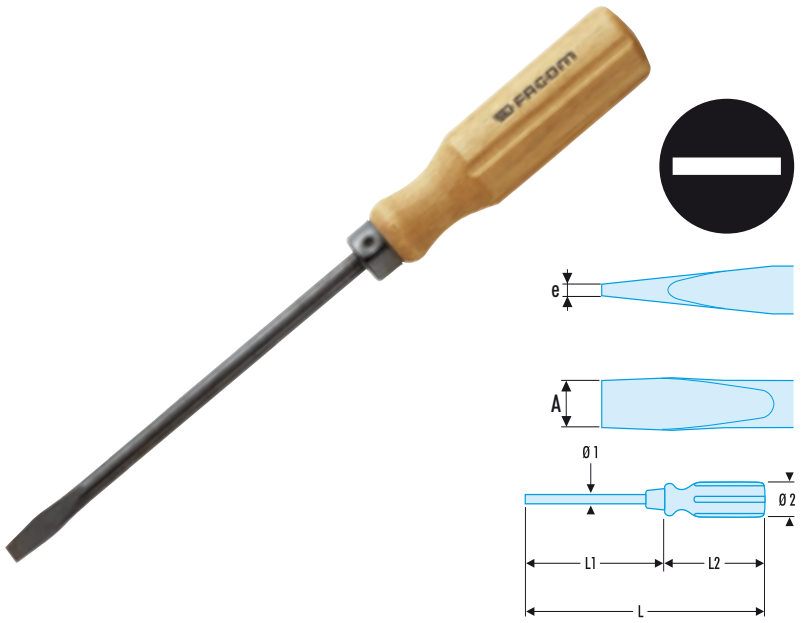
Wood-handle screwdriver sets

			Contents	Number of screwdrivers	g
ATH.JS5		•	ATH.5,5x100 - 6,5x100 - 8Ex150 8x175 - 10x200	5	837
ATHH.JS5		•	ATHH.5,5x100 - 6,5x125 - 8x150 10x175 - 12x200	5	952
AGH.JS5		•	AGH.5,5x100 - 6,5x125 - 8x150 10x175 - 12x200	5	992\1262
ATHH.PJ3	•		ATHH.P1 - P2 - P3	3	372
ATHH.J7	•		ATHH.4x90 - 5,5x100 - 6,5x125 8x150 - 10x17 - 12x200 - 14x250	7	1262
AJT.2	•		ATHH.5,5x100 - 6,5x125 - 8x150\10x175 ATHH.P1 - P2 ATHH.D1 - D2	8	908

Wood-handle screwdrivers for slotted heads

ATH For slotted heads - forged blades

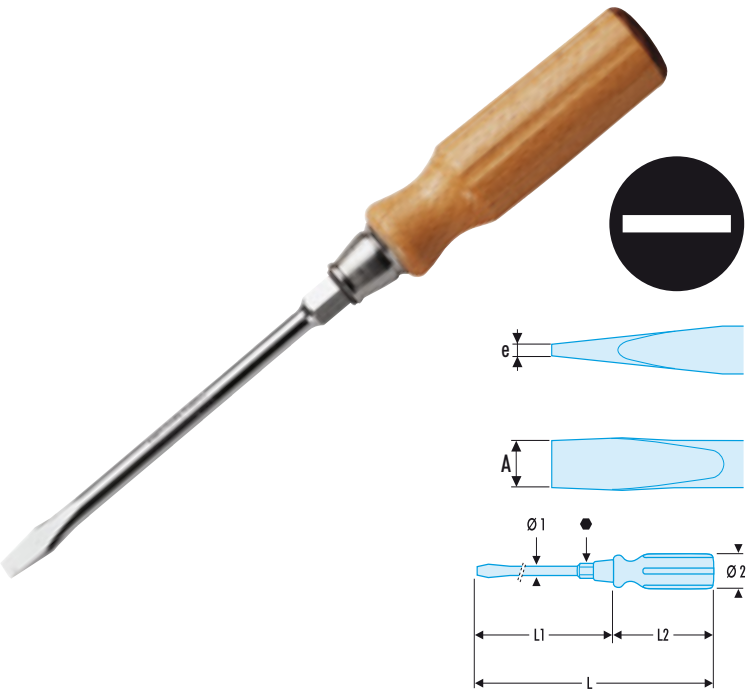
▷ NF ISO 2380-1, NF ISO 2380-2, DIN ISO 2380-1, DIN ISO 2380-2.
• Through-blade withstands gentle impact on end to free seized fasteners.
• Metal insert to spread impact area
• Full blade length forged and hardened.
• Winged shank for secure fit within handle.
• Burnished finish.



	e x A mm	t mm	Ø1 x L1 mm	Ø2 x L2 mm	L mm	g
ATH.5,5X100	1,0 x 5,5	0,6	5 x 100	22 x 105	205	65
ATH.6,5X100	1,2 x 6,5	0,7	6 x 100	26 x 110	210	86
ATH.8X150	1,2 x 8,0	0,7	7 x 150	28 x 120	270	130
ATH.8EX175	1,6 x 8,0	1,0	7 x 175	32 x 130	305	177
ATH.10X200	1,6 x 10,0	1,0	9 x 200	32 x 130	330	222
ATH.12X250	2,0 x 12,0	1,2	10 x 250	32 x 130	380	335

ATHH For slotted heads - forged blades with hexagonal bolster

▷ NF ISO 2380-1, NF ISO 2380-2, DIN ISO 2380-1, DIN ISO 2380-2.
• Through-blade withstands gentle impact on end to free seized fasteners.
• Forged and hardened blade with hex shoulder to take a wrench for extra leverage.
• Winged shank for secure fit within handle.
• Steel shock-absorbing ferrule; leather end-pad to cushion impact.
• Polished chrome finish.



	e x A mm	t mm	Ø1 x L1 mm	Ø2 x L2 mm	mm	L mm	g
ATHH.4X90	0,8 x 4,0	0,5	4,5 x 90	25 x 100	6	190	49
ATHH.5,5X100	1,0 x 5,5	0,6	5,5 x 100	25 x 100	8	200	58
ATHH.6,5X125	1,2 x 6,5	0,7	6,5 x 125	26 x 115	10	240	99
ATHH.6,5X175	1,2 x 6,5	0,7	6,5 x 175	26 x 115	10	290	110
ATHH.8X150	1,2 x 8,0	0,7	8,0 x 150	28 x 120	13	270	160
ATHH.10X175	1,6 x 10,0	1,0	9,0 x 175	30 x 125	13	300	207
ATHH.12X200	2,0 x 12,0	1,2	10,0 x 200	32 x 130	17	330	278
ATHH.14X250	2,5 x 14,0	1,5	10,0 x 250	32 x 135	17	385	331

AGH For slotted heads - "High torque" forged blades with hexagonal bolster

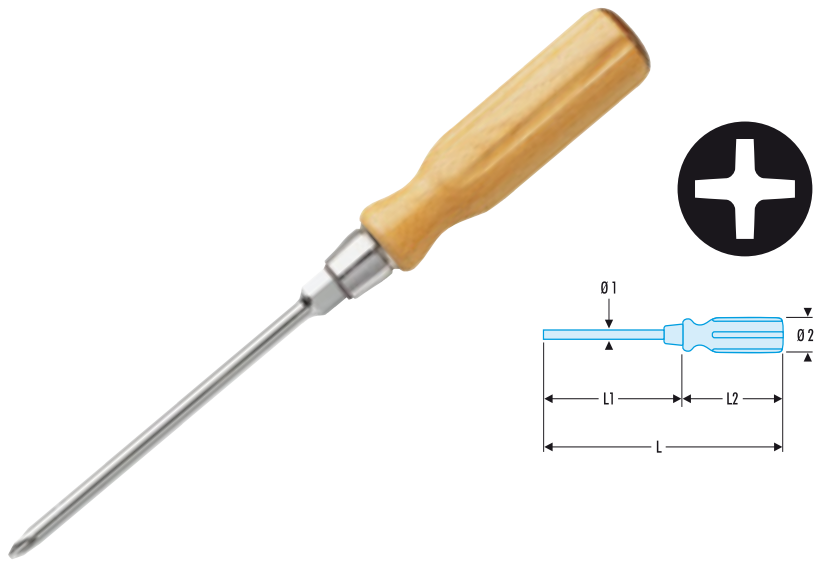
- Ergonomic varnished beechwood handle for powerful rotation.
- Through-blade withstands gentle impact on end to free seized fasteners.
- Forged and hardened blade with hex bolster to take a wrench for extra leverage.
- Winged shank for secure fit within handle.
- Steel shock-absorbing ferrule; leather end-pad to cushion impact.
- Chrome finish, burnished tip.

	e x A mm	t mm	Ø1 x L1 mm	Ø2 x L2 mm	⬣ mm	L mm	⧋ g
AGH.5,5X100	1,0 x 5,5	0,6	5,0 x 100	33 x 110	6	210	49
AGH.6,5X125	1,2 x 6,5	0,7	6,0 x 125	33 x 110	8	235	64
AGH.8X150	1,2 x 8,0	0,7	8,0 x 150	38 x 120	10	270	110
AGH.8X200	1,2 x 8,0	0,7	8,0 x 200	38 x 120	13	320	160
AGH.10X175	1,6 x 10,0	1,0	9,0 x 175	38 x 120	13	295	190
AGH.10X200	1,6 x 10,0	1,0	9,0 x 200	38 x 120	13	320	207
AGH.12X200	2,0 x 12,0	1,2	10,0 x 200	42 x 130	17	330	278
AGH.12X250	2,0 x 12,0	1,2	10,0 x 250	42 x 130	17	380	331
AGH.14X250	2,5 x 14,0	1,2	11,0 x 250	42 x 130	17	380	351

Wood-handle screwdrivers for cross-heads

ATHH.P For Phillips® heads - blades with hexagonal bolster

- Through-blade withstands gentle impact on end to free seized fasteners.
- Forged and hardened blade with hex bolster to take a wrench for extra leverage.
- Winged shank for secure fit within handle.
- Steel shock-absorbing ferrule; leather end-pad to cushion impact.
- Polished chrome finish.



	Phillips® no.	Ø1 x L1 mm	Ø2 x L2 mm	⬣ mm	L mm	⧋ g
ATHH.P1	PH.1	5 x 100	25 x 100	8	200	60
ATHH.P2	PH.2	6 x 125	26 x 110	10	235	92
ATHH.P3	PH.3	8 x 150	28 x 120	13	270	160

ATHH.D For Pozidriv® heads - blades with hexagonal bolster

- Through-blade withstands gentle impact on end to free seized fasteners.
- Forged and hardened blade with hex bolster to take a wrench for extra leverage.
- Winged shank for secure fit within handle.
- Steel shock-absorbing ferrule; leather end-pad to cushion impact.
- Burnished finish.

	Pozidriv® no.	Ø1 x L1 mm	Ø2 x L2 mm	⬣ mm	L mm	⧋ g
ATHH.D1	PZ.1	5 x 100	25 x 100	8	200	60
ATHH.D2	PZ.2	6 x 125	26 x 115	10	240	92
ATHH.D3	PZ.3	8 x 150	28 x 120	13	270	160

multi-blade screwdrivers

New

AM Multi-blade sets

- Compact set offering a selection of drive patterns.
- Double-ended blades.
- Handle fits 1/4" hexagon shank on blades.
- Blade retaining spring within handle.
- AM.1 comes in a plastic box.
- AM.2-AM.3-AM.4 come in a compact wallet.

Protwist®

	Handle					Torx Plus® Tamper resistant	Qty	ΔΔ g
AM.1	AM.D	AMZ.S 4-6,5 AMZ.S 5,5-7	AMZ.P 0-1 AMZ.P 2-3		AMZ.X 10-15 AMZ.X 20-25 AMZ.X 30-40		16	775
AM.2	AM.D	AMZ.S 4-6,5 AMZ.S 5,5-7	AMZ.P 1-2	AMZ. D1-2			5	350
AM.3	AM.D	AMZ.S 4-6,5 AMZ.S 5,5-7	AMZ.P 1-2		AMZ.X 10-15 AMZ.X 20-25 AMZ.X 30-40		7	450
AM.4	AM.D	AMZ.S 4-6,5 AMZ.S 5,5-7				AMZ.XRP 10-15 AMZ.XRP 20-25 AMZ.XRP 30-40	5	350

AMZ Reversible blades

- Length 175 mm.
- Length outside the handle 125 mm.
- Chrome finish.

ΔΔ : 40 g.

	Pattern	Contents
AMZ.S4-6,5		0,8 x 4 - 1,2 x 6,5
AMZ.S5,5-7		1 x 5,5 - 1,5 x 7
AMZ.PO-1		PH.0 - PH.1
AMZ.P2-3		PH.2 - PH.3
AMZ.P1-2		PH.1 - PH.2
AMZ.D0-1		PZ.0 - PZ.1
AMZ.D2-3		PZ.2 - PZ.3
AMZ.D1-2		PZ.1 - PZ.2
AMZ.H2,5		2,5
AMZ.H3		3
AMZ.H4		4
AMZ.H5		5
AMZ.H6		6
AMZ.X8-9		T.8 - T.9
AMZ.X10-15		T.10 - T.15
AMZ.X20-25		T.20 - T.25
AMZ.X30-40		T.30 - T.40
AMZ.XRP10-15	Tamper Torx® Plus	TT+10-15
AMZ.XRP20-25	Tamper Torx® Plus	TT+20-25
AMZ.XRP30-40	Tamper Torx® Plus	TT+30-40
AMZ.E		Porte-embout 6 pans 1/4"

New

Blade handle

AM.D

- 1/4" hexagon drive.
- Length 133 mm,
- ∅ : 35 mm.

⚖ : 100 g.

Protwist®

"Radio" model

AMR

- Supplied with 3 blades for slotted heads ∅ 1,5 - 2 - 2,5 mm, stored in handle.
- Polished chrome finish.
- Length with blade 105 mm.

⚖ : 14 g.

"Junior" model

AMJ

- Supplied with 3 blades for slotted heads ∅ 3,5 - 4 - 5.5 mm, stored in handle.
- Polished chrome finish.
- Length with blade 150 mm.

⚖ : 57 g.

"Standard" model

AMS

- Supplied with 2 reversible blades :
- ⊖ For slotted heads ∅ 5.5 and ⊕ Phillips® no. 1.
- ⊖ For slotted heads ∅ 6,5 and ⊕ Phillips® no. 2.
- Wallet set.
- Polished chrome finish.
- Length with blade 165 mm.

⚖ : 101 g.

Bit drivers

Spiral ratchet driver for 1/4" hexagon bits

AAM.PE

- Time savings of up to one third for screws with long threads.
- Quick-release chuck for 1/4" (6.35 mm) 1-series bits.
- 3-position ratchet : screw, unscrew, tighten.
- Shank locks in retracted position.
- Polished chrome finish.
- Length 305 mm extended; 230 mm closed.

⚖ : 345 g.

New

Ratchet bit drivers

ACL.1

- High quality 45 tooth mechanism for speed, precision, strength and durability.
- One-handed 3-position selector ring (screw, unscrew and tighten).
- Cap with 7 bit storage compartments.
- Cap can serve as an additional mini bit-holder for difficult-to-reach screw locations.
- Partly hollow handle for storing additional bits or screws.
- Bi-material, ergonomic handle for a powerful, comfortable screwing action.
- Very low blade return torque.
- Powerful magnetic adaptor holds the bit and the screw.
- Contains 8 bits :
- For slotted heads : 4 - 6,5.
- For Phillips® : PH1 - PH2.
- For Pozidriv® : PZ1 - PZ2.
- For hexagon socket heads : 4 - 6.

Protwist®

New

AM Bit driver

AM.H : spring-clip model.
AM.M1 : short-reach magnetic model.
AM.M2 : long-reach magnetic model.

	A mm	B mm	L mm	⚖ g
AM.H	11	75	180	80
AM.M1	10	63	180	120
AM.M2	10	125	245	150

Protwist®

Voltage-tester screwdrivers

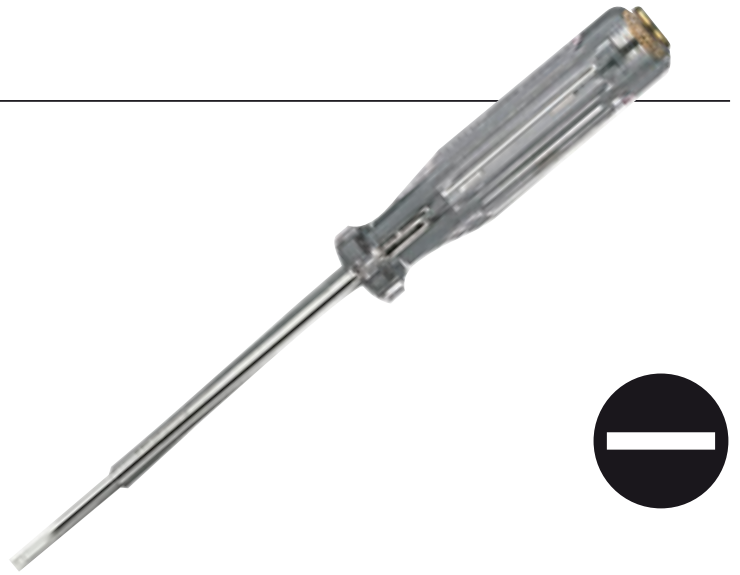
AV.BT Voltage-tester screwdrivers (very low voltage)

• For very low voltage.
AV.BT1 : Standard model
AV.BT2 : Clip model.
• Supplied with 50 cm lead complete with jack and alligator clip.

	Tension Volt	Ø x Blade mm	L mm	⚖ g
AV.BT1	6 - 24	4 x 104	196	53
AV.BT2	6 - 24	3 x 53	138	27

AV.HT Voltage-tester screwdrivers (low voltage)

• AV.HT4P : Standard model
• AV.HT3P : Clip model.



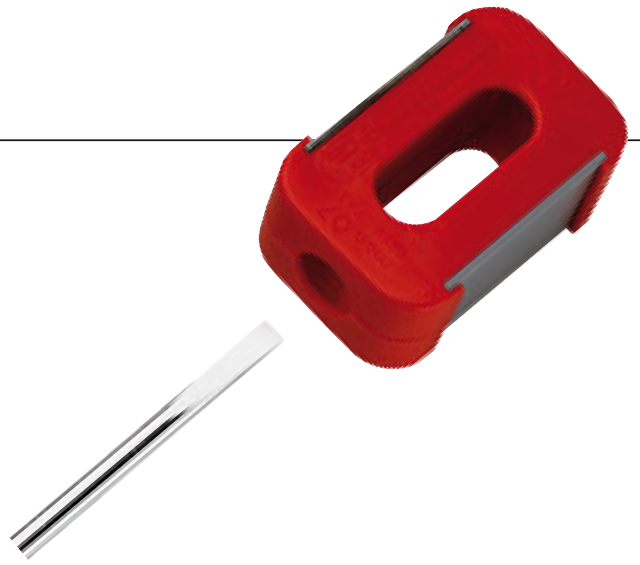
	Tension Volt	Ø x Blade mm	L mm	⚖ g
AV.HT1B	90 - 480	3,5 x 100	190	45
AV.HT2B	110 - 250	3 x 62	140	20

Magnetiser / Demagnetiser

Magnetiser-demagnetiser

837

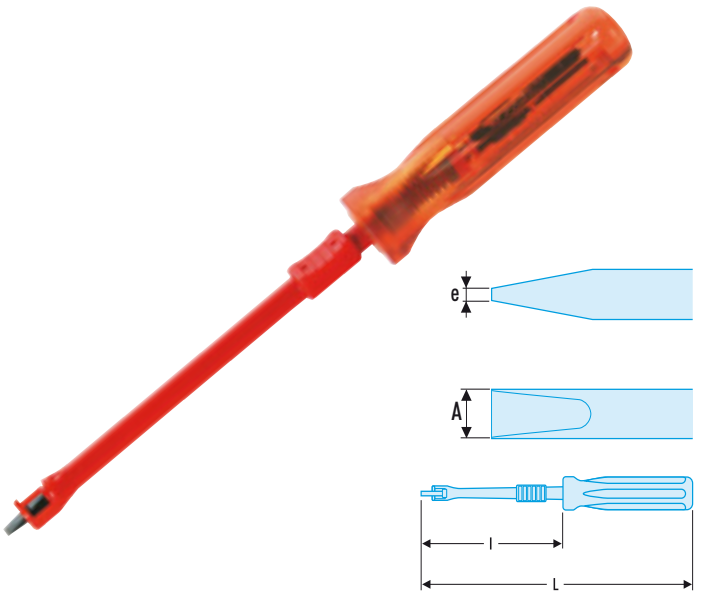
• Magnetizes driver blade to hold screw in position.
• Demagnetizes driver after use.
⚖ : 73 g.



Screw starters

Screw starters

⊖ AFR for slotted heads.
⊕ AFP for Phillips® heads.
⊕ AFD for Pozidriv® heads.
• Starting and driving with one tool.
• Thumb-operated slide. Spring holds screw head against the blade.



	e x A mm	Phillips® no.	Pozidriv® no.	l mm	L mm	⚖ g
AFR.2,5X75	0,4 x 2,5			75	150	22
AFR.3X100	0,5 x 3			100	190	37
AFR.4X125	0,6 x 4			125	225	64
AFR.5X150	0,7 x 5			150	260	95
AFP.0		PH.0		125	225	64
AFP.1		PH.1		150	260	96
AFP.2		PH.2		175	285	118
AFD.1			PZ.1	150	255	96
AFD.2			PZ.2	175	280	120

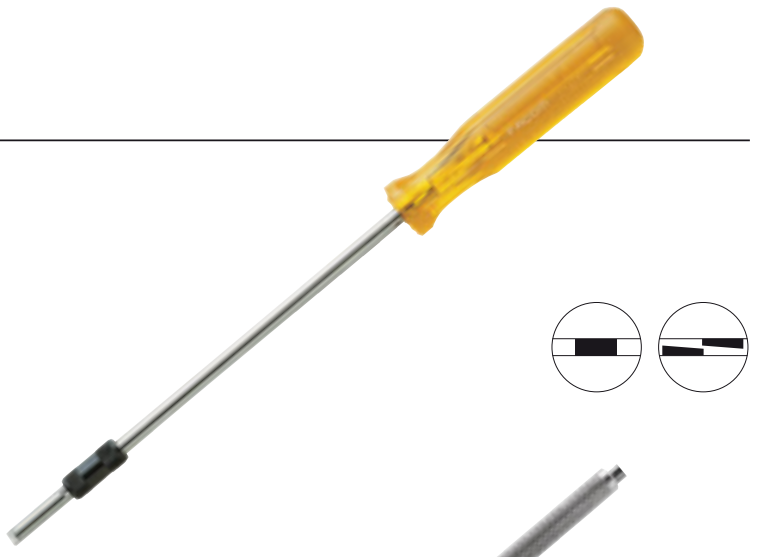
Screwdrivers

Screw starters for slotted heads

AF

- Sleeve slides to lock wedge-shaped tips into the slot.
- For slots 0.5 to 1.5 mm wide.
- Screwdriver required for subsequent tightening or loosening.
- Blade length 150 mm.
- Total length 240 mm.

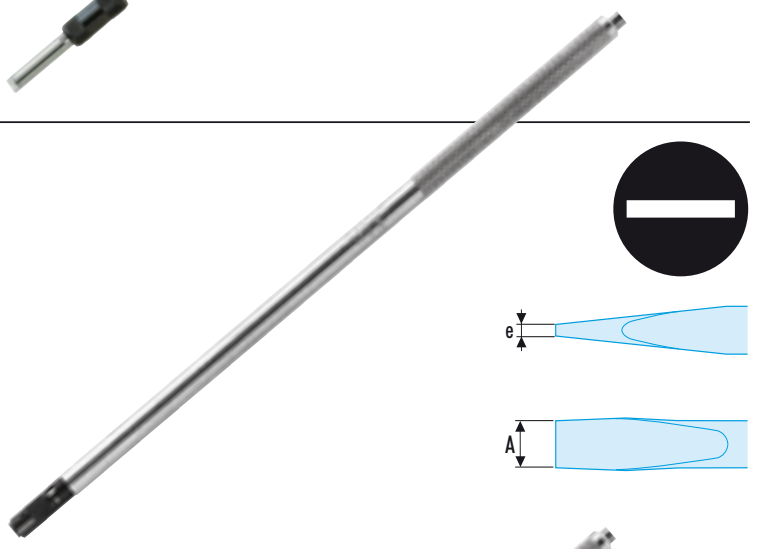
⚖ : 56 g.



AFU Screw starters for slotted heads

- Sleeve rotation locks tip into slot.
- AFU.2 handle is tipped with a magnet.
- Finely knurled steel handle.

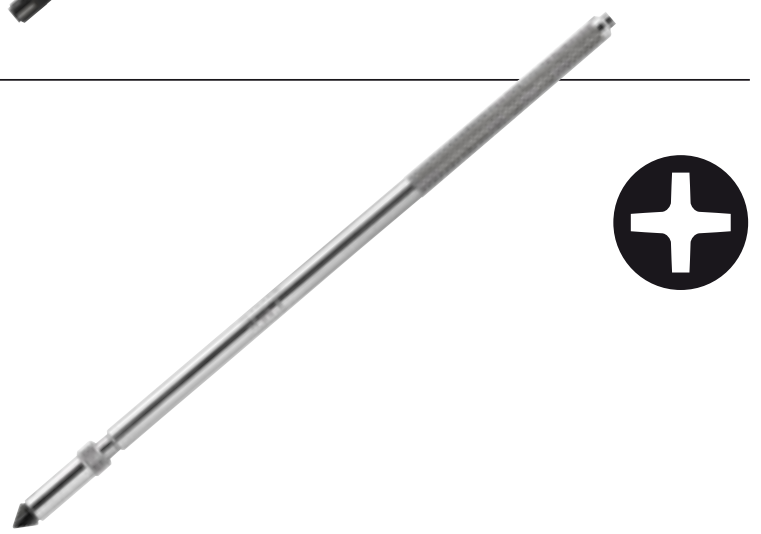
	e x A mm	L mm	⚖ g
AFU.0	0,5 x 3,8	135	18
AFU.1	0,8 x 7,0	130	18
AFU.2	0,8 x 7,0	300	31



AFUX Screw starters for cross-heads

- Sleeve slides to lock tip into head.
- AFUX.2 handle is tipped with a magnet.
- Finely knurled steel handle.

	Phillips® no.	L mm	⚖ g
AFUX.1	PH.1	130	23
AFUX.2	PH.2	300	39



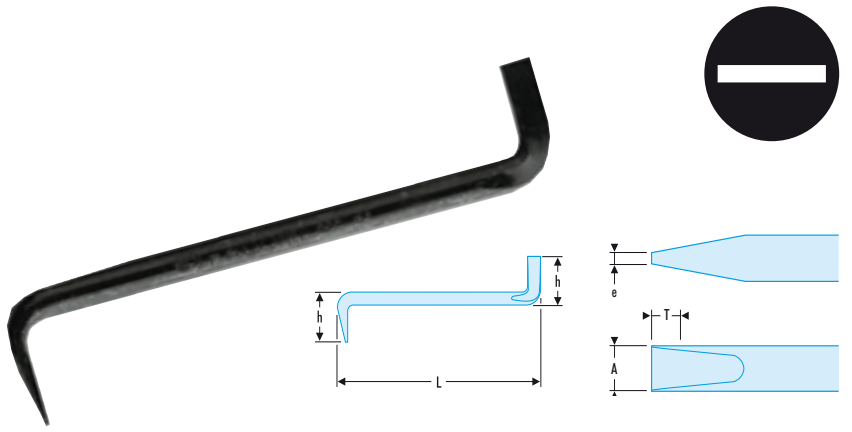
Offset screwdrivers

ARZ and AKZ Offset screwdrivers for slotted heads

ARZ Round-blade
AKZ Square blade.

- Double-ended in perpendicular planes.
- Quarter-turns by reversing the tool.
- Burnished finish.

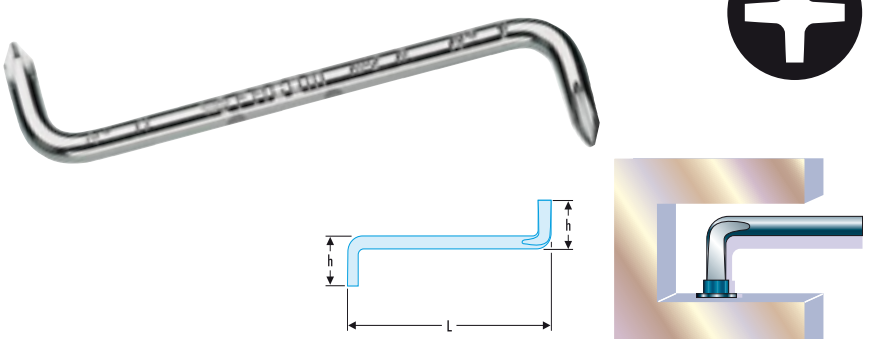
	Shank cross -section	e x A mm	t mm	h mm	L mm	⚖ g
ARZ.4	•	0,8 x 4,0	0,5	13,0	86	10
ARZ.5,5	•	1,0 x 5,5	0,6	14,0	95	19
ARZ.6,5	•	1,2 x 6,5	0,7	16,0	110	31
AKZ.6	■	1,2 x 8,0	0,7	17,5	123	38
AKZ.8	■	1,6 x 10,0	1,0	20,0	175	92



APZ Offset screwdrivers for Phillips® heads

- Different size at each end.
- For use in confined spaces.
- Chrome finish.

	Phillips® no.	h mm	L mm	⚖ g
APZ.A	PH.0 - PH.1	18	86	17
APZ.B	PH.1 - PH.2	20	142	40
APZ.C	PH.3 - PH.4	22	205	138



FACOM keys

Strong and durable :
- *Silicon alloy, for strength and wear resistance.*

Guaranteed safe :
- *Precise, constant heat treatment controls the hardness of the key, to ensure that, if overloaded, it will fail by twisting before breaking cleanly and without splintering.*

Perfect fit in the screw :
- *Keys cut, not sheared, to give a clean, regular face.*

A comprehensive range
- *Hexagon keys available in three lengths, with standard and spherical heads (series 82 and 83).*
- *Torx and Resistorx® keys (series 89).*
- *Special pattern keys : XZN, groove sockets and Bristol (series 80, 81 and 85).*
- *Hexagonal tee-handle keys (series 84 TC).*
- *Hexagonal and Torx® tee-handled nut spinners (series 84TZ and 89TX).*
- *Protwist® hexagonal and spherical head nut spinners (series AWHH and AWSH).*

... and tool holders to suit every need.
- *JP sleeve sets of hexagonal and Torx® keys.*
- *Multi-blade hexagonal and Torx® drivers.*
- *Ring, wallet or module sets.*

Facom JP sleeve set

PRACTICAL AND COMPACT

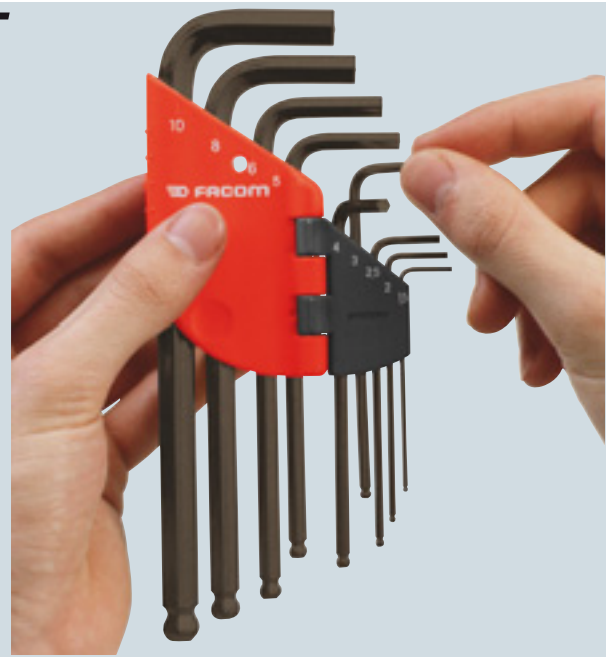
Maximum compactness :
- *Folds flat.*

Easy tool storage and selection :
- *Flat sleeve-case, hinged flap.*

Strong and durable :
- *Elastomer chosen for its wear resistance, good durability, its resistance to chemicals and weather variations.*

Convenient hanging hole..

System available for hexagon and Torx® key series.



Key sleeve sets

JP Sleeve sets of hexagon keys

▷ NF/ISO 2936, DIN ISO 2936.

• Keys supplied in compact sleeve-case with hinged flap for instant selection of size needed

82H : Short keys.

83H : Long keys.

83SH : Long spherical head keys.

83S.L : Extra-long keys.

	Keys series	mm / "	Wallet only	g
82H.JP9	82H	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10	JP9	260
82H.JP8U	82H	3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16 - 3/8	JP8U	235
83H.JP9	83H	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10	JP9	350
83SH.JP7	83SH	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6	JP9	290
83SH.JP9	83SH	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10	JP9	450
83SH.JPA	83SH	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8		270
83SH.JP6U	83SH	3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4	JP8U	300
83SH.JP8U	83SH	3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16 - 3/8	JP8U	365
83S.JP9L	83S.L	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8 - 10	JP9	350

Set of 6 hexagon keys 83R for safety fasteners

83R.JP6

• Sleeve-set contains sizes 2 - 2,5 - 3 - 4 - 5 - 6.

⚖ : 350 g.

89.JP Sleeve set of Torx® keys

• Meets Torx® et Resistorx®.

• 89 Torx® keys.

• 89L Long Torx® keys.

• 89 Resistorx® keys.

• 89S Long Torx® keys with spherical heads.

	Keys series	Torx® n°	g
89.JP6	89	10 - 15 - 20 - 25 - 30 - 40	230
89.JP8	89	10 - 15 - 20 - 25 - 27 - 30 - 40 - 45	330
89.JP8L	89L	10 - 15 - 20 - 25 - 27 - 30 - 40 - 45	360
89R.JP6	89R	10 - 15 - 20 - 25 - 30 - 40	220
89S.JP8	89S	10 - 15 - 20 - 25 - 27 - 30 - 40 - 45	230

Multi-blade handle

POWERFUL AND ERGONOMIC

90° stop
Provides positive leverage for safe and powerful rotation.

Blade at 180°.
For fast pre-tightening in screwdriver position.

Holder swings 180°.
For fast re-positioning without removing the blade from the fastener.

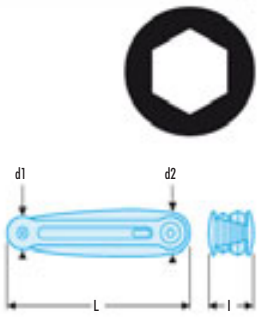
Composite construction.
- *Metal frame for 30 % more strength.*
- *Resin side pieces for comfortable handling.*

For hexagon and Torx® keys.

Folding key sets

86H Folding sets of hexagon keys

- Compact holder.
- Comfortable grip.
- 90° stop for high torque.
- Silicon steel keys derived from series 82H.
- Phosphate finish.



	⬢ mm / "	d1 mm	d2 mm	l mm	L mm	⚖ g
86H.JE7A	2,5 - 3 - 4 - 5 - 6 - 8 - 10	24	30	32	138	405
86H.JE7B	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6	18	22	28	118	147
86H.JU6	5/32 - 3/16 - 7/32 - 1/4 - 5/16 - 3/8	24	30	32	138	420
86H.JU7	1/16 - 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 1/4	18	22	28	118	142

89.JM Folding set of Torx® keys

- Meets Torx® specifications.

✪ 89A.JM8 : Torx®.

✪ 89R.JM8 : Resistorx®.

- Compact holder, comfortable grip.

	Torx® n°	d1 mm	d2 mm	l mm	L mm	⚖ g
89A.JM8	8-10-15-20-25-27-30-40	24	30	32	138	170
89R.JM8	8-10-15-20-25-27-30-40	24	30	32	138	160

Ring sets

87HL Long hexagonal key ring sets

- Keys from 83H series.
- Silicon steel.
- Phosphate finish.

	mm/ "	g
87HL.JE8	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8	150
87HL.JU8	5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16	175

87H Short hexagonal key ring sets

- Keys from 82H series.
- Silicon steel.
- Phosphate finish.

	mm/ "	g
87H.JE8	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 8	150
87H.JU8	5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16	175

89 Torx® key ring set

89.JA8

- Meets Torx® specifications.
- Comprises 8 Torx® keys no. T 8 - 10 - 15 - 20 - 25 - 27 - 30 - 40.

: 107 g.

Wallet sets

JL / JU Wallet sets of hexagon keys

82H : Short keys.
83H : Long keys.
83SH : Long spherical head keys.
JL = Set of metric keys
JU = Set of inch keys.

	Keys series	mm / "	kg
82H.JE10	82H	0,9 - 1,5 - 2 - 2,5 - 3 - 3,5 - 4 - 4,5 - 5 - 6	0,122
82H.JL10	82H	2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	0,433
82H.JL12	82H	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12	0,6
82H.JL13	82H	3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 17 - 19	2,22
82H.JU7	82H	0,028 - 0,035 - 0,050 - 3/64 - 1/16 - 5/64 - 3/32	0,011
82H.JU10	82H	1/16 - 5/64 - 3/32 - 1/8 - 3/32 - 3/16 - 7/32 - 1/4 - 5/16 - 3/8	0,433
82H.JU13	82H	3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16 - 3/8 - 7/16 - 1/2 - 9/16 - 5/8 - 3/4	2,08
83H.JL10	83H	2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	0,585
83H.JL12	83H	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12	0,81
83H.JL13	83H	3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 14 - 17 - 19	3,04
83H.JU10	83H	1/16 - 5/64 - 3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16 - 3/8	0,44
83SH.JL10	83SH	2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10	0,585
83SH.JL12	83SH	1,5 - 2 - 2,5 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 12	0,81
83SH.JU8	83SH	3/32 - 1/8 - 5/32 - 3/16 - 7/32 - 1/4 - 5/16 - 3/8	0,435

89.JL Wallet set of Torx® keys

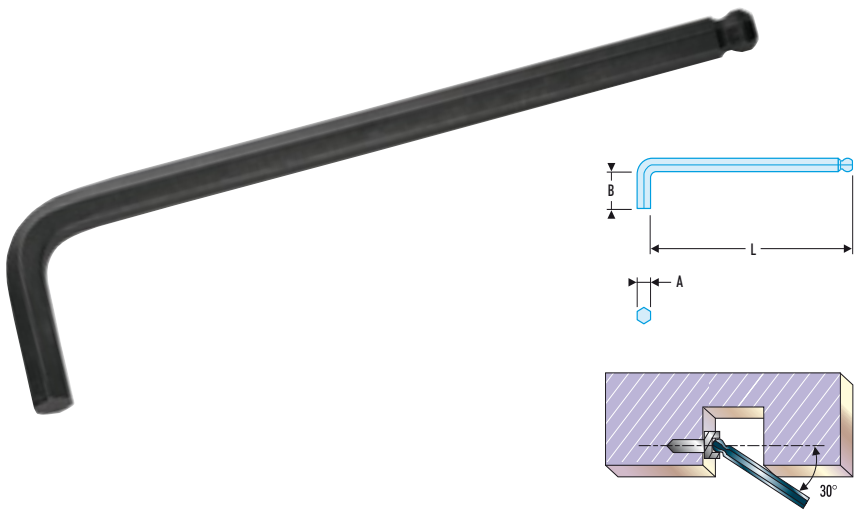
• Meets Torx®.

	Keys series	Torx® n°	g
89.JL8	89	8 - 10 - 15 - 20 - 25 - 27 - 30 - 40	110
89.JL12	89	7 - 8 - 9 - 10 - 15 - 20 - 25 - 27 - 30 - 40 - 45 - 50	271

Hexagonal keys

83SH Metric long hexagonal keys with spherical head

▷ ISO 2936, DIN ISO 2936, NF ISO 2936
• Silicon steel.
• Spherical head gives up to 30° working angle.
• Phosphate finish.

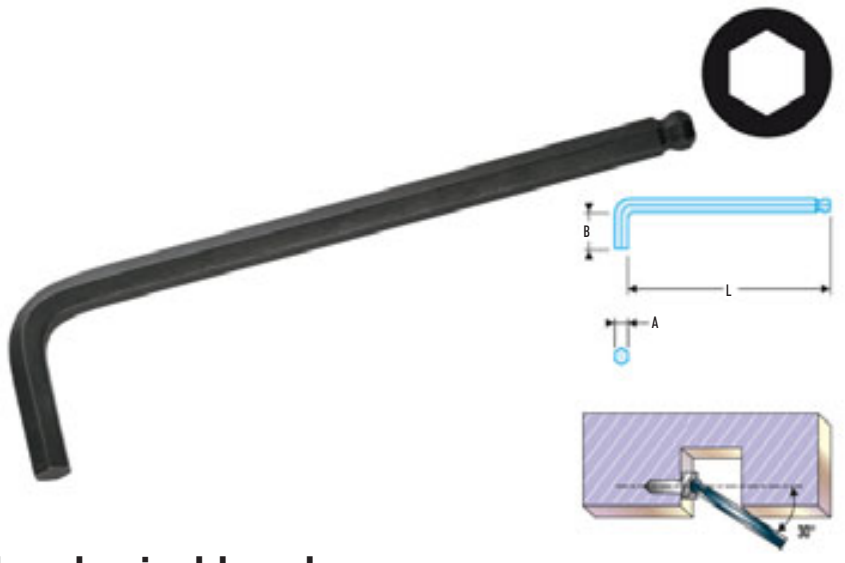


	A mm	B x L mm	g
83SH.1,5	1,5	14 x 62	1
83SH.2	2	16 x 75	2
83SH.2,5	2,5	18 x 85	4
83SH.3	3	20 x 90	7
83SH.4	4	25 x 100	15
83SH.5	5	28 x 115	24
83SH.6	6	32 x 135	42
83SH.7	7	34 x 140	57
83SH.8	8	36 x 150	80
83SH.9	9	38 x 160	110
83SH.10	10	40 x 170	140
83SH.12	12	45 x 190	225

83SH - Inch long hexagonal keys with spherical head

• Same specification as metric keys 83SH.

	A "	B x L mm	⚖ g
83SH.3/32	3/32	17 x 85	4
83SH.1/8	1/8	20 x 90	7
83SH.5/32	5/32	25 x 100	13
83SH.3/16	3/16	28 x 115	22
83SH.7/32	7/32	32 x 135	34
83SH.1/4	1/4	32 x 140	46
83SH.5/16	5/16	36 x 150	80
83SH.3/8	3/8	38 x 170	128



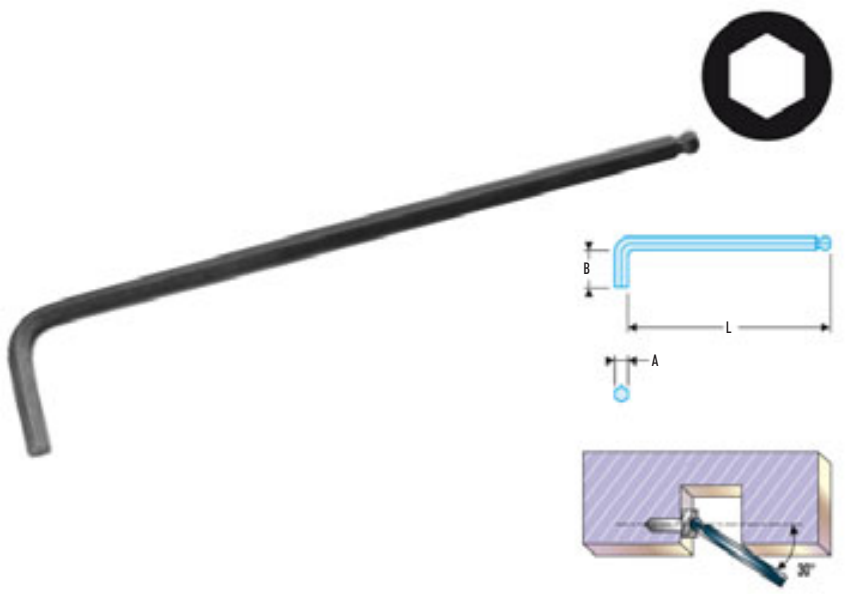
83S.L Metric extra-long hexagonal keys with spherical head

▷ DIN ISO 2936.

• Longer lengths offer greater leverage, higher torque and improved in-line access.

• Phosphate finish.

	A mm	B x L mm	⚖ g
83S.1,5L	1,5	14 x 89	1,7
83S.2L	2	16 x 100	4
83S.2,5L	2,5	18 x 111	6
83S.3L	3	20 x 124	10
83S.4L	4	25 x 138	20
83S.5L	5	28 x 159	36
83S.6L	6	32 x 179	58
83S.7L	7	34 x 188	83
83S.8L	8	36 x 198	115
83S.10L	10	40 x 221	200
83S.12L	12	45 x 247	322



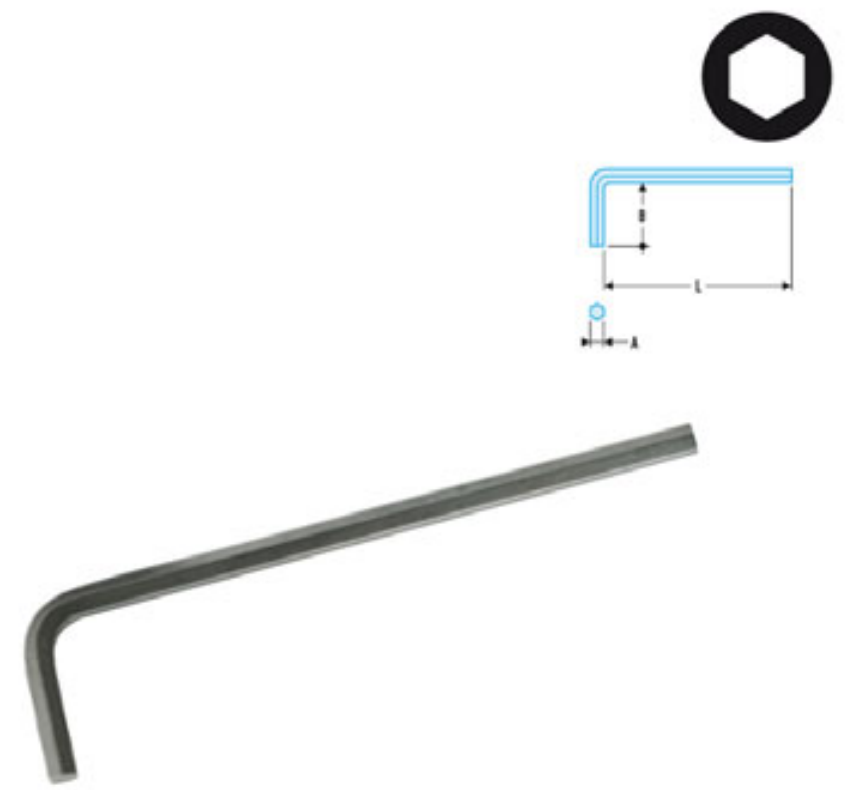
83H Metric long hexagonal keys

▷ ISO 2936, DIN ISO 2936, NF ISO 2936.

• Silicon steel.

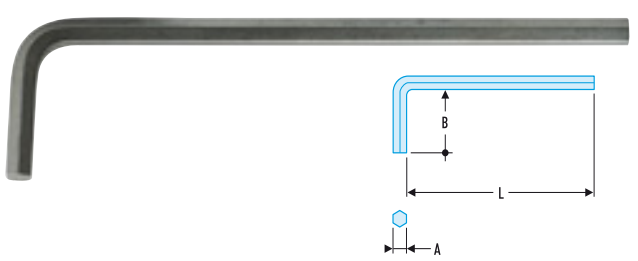
• Phosphate finish.

	A mm	B x L mm	⚖ g
83H.1,5	1,5	14 x 62	1
83H.2	2	16 x 75	2
83H.2,5	2,5	18 x 85	4
83H.3	3	20 x 90	7
83H.3,5	3,5	25 x 95	10
83H.4	4	25 x 100	15
83H.4,5	4,5	26 x 110	18
83H.5	5	28 x 115	24
83H.6	6	32 x 135	42
83H.7	7	34 x 140	57
83H.8	8	36 x 150	80
83H.9	9	38 x 160	110
83H.10	10	40 x 170	140
83H.11	11	42 x 180	180
83H.12	12	45 x 190	225
83H.13	13	50 x 200	286
83H.14	14	56 x 215	361
83H.15	15	58 x 225	435
83H.16	16	60 x 235	515
83H.17	17	63 x 245	602
83H.18	18	66 x 255	713
83H.19	19	70 x 265	830
83H.22	22	80 x 275	1010
83H.23	23	85 x 285	1160
83H.24	24	90 x 299	1310
83H.27	27	100 x 315	1380
83H.32	32	125 x 364	1470



83H Inch long hexagonal keys

▷ For information : DIN ISO 2936, NF ISO 2936.
• Silicon steel.
• Phosphate finish.

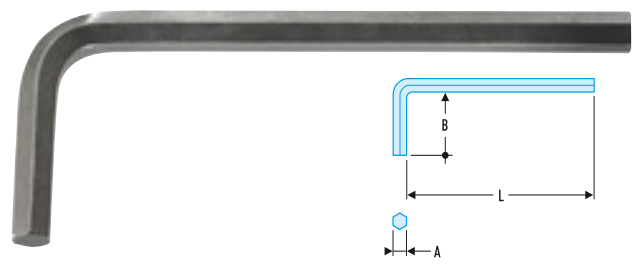


	A "	B x L mm	⚖ g
83H.050	050	14 x 62	0,8
83H.3/64	3/64	14 x 58	1
83H.1/16	1/16	13 x 62	2
83H.5/64	5/64	16 x 75	3
83H.3/32	3/32	17 x 85	4
83H.7/64	7/64	18 x 90	5
83H.1/8	1/8	20 x 90	7
83H.9/64	9/64	22 x 95	10
83H.5/32	5/32	25 x 100	13

	A "	B x L mm	⚖ g
83H.3/16	3/16	28 x 115	22
83H.7/32	7/32	32 x 135	34
83H.1/4	1/4	32 x 140	46
83H.5/16	5/16	36 x 150	80
83H.3/8	3/8	38 x 170	128
83H.7/16	7/16	42 x 180	186
83H.1/2	1/2	45 x 190	263
83H.9/16	9/16	56 x 215	376

82H Metric short hexagonal keys

▷ ISO 2936, DIN ISO 2936, NF ISO 2936.
• Silicon steel.
• Phosphate finish.

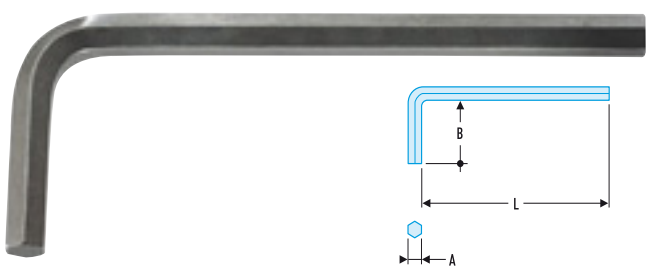


	A mm	B x L mm	⚖ g
82H.0,9	0,9	12 x 38	0,3
82H.1,3	1,3	13 x 45	0,7
82H.1,5	1,5	13 x 45	0,9
82H.2	2	16 x 50	2
82H.2,5	2,5	17 x 62	3
82H.3	3	20 x 65	5
82H.3,5	3,5	22 x 66	8
82H.4	4	25 x 70	10
82H.4,5	4,5	26 x 75	15
82H.5	5	28 x 80	20
82H.6	6	32 x 90	30
82H.7	7	34 x 95	45
82H.8	8	36 x 100	60
82H.9	9	38 x 105	80
82H.10	10	40 x 112	100

	A mm	B x L mm	⚖ g
82H.11	11	42 x 118	130
82H.12	12	45 x 125	165
82H.13	13	50 x 135	205
82H.14	14	55 x 140	260
82H.15	15	58 x 150	310
82H.16	16	60 x 154	370
82H.17	17	63 x 160	440
82H.18	18	66 x 170	540
82H.19	19	70 x 180	640
82H.22	22	80 x 200	950
82H.23	23	85 x 210	1100
82H.24	24	90 x 224	1250
82H.27	27	100 x 250	1300
82H.32	32	125 x 315	1420

82H Inch short hexagonal keys

▷ For information : DIN ISO 2936, NF ISO 2936.
• Silicon steel.
• Phosphate finish.



	A "	B x L mm	⚖ g
82H.028	028	10 x 33	0,3
82H.035	035	11 x 35	0,4
82H.050	050	12 x 38	0,4
82H.3/64	1/64	12 x 38	0,5
82H.1/16	1/16	13 x 45	0,7
82H.5/64	5/64	16 x 50	2
82H.3/32	3/32	17 x 62	3
82H.7/64	7/64	18 x 60	4
82H.1/8	1/8	20 x 65	6
82H.9/64	9/64	22 x 66	8
82H.5/32	5/32	25 x 70	10
82H.3/16	3/16	28 x 80	16

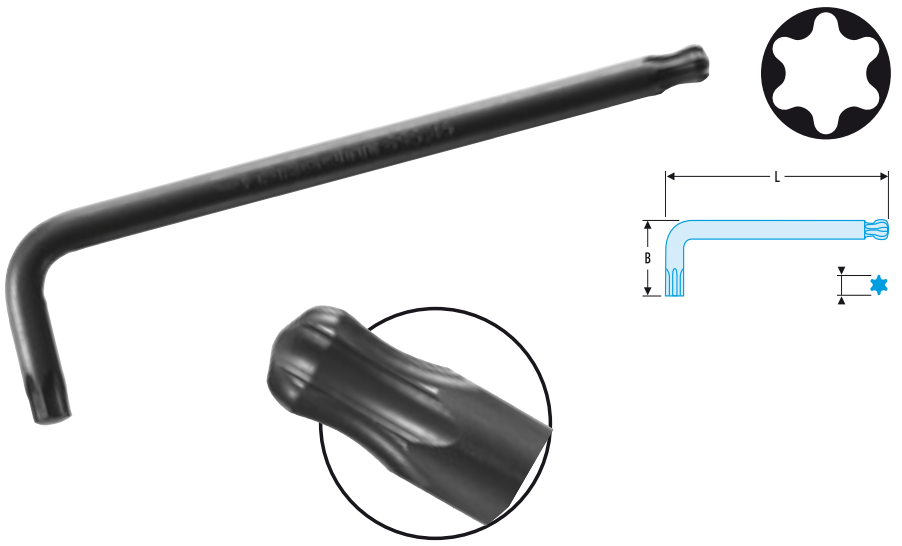
	A "	B x L mm	⚖ g
82H.7/32	7/31	32 x 90	24
82H.1/4	1/4	32 x 90	33
82H.5/16	5/16	36 x 100	59
82H.3/8	3/8	40 x 112	90
82H.7/16	7/16	42 x 118	135
82H.1/2	1/2	45 x 125	202
82H.9/16	9/16	55 x 140	273
82H.5/8	5/8	60 x 160	383
82H.11/16	11/16	63 x 170	540
82H.3/4	3/4	70 x 175	623
82H.7/8	7/8	80 x 200	955
82H.1'	1'	90 x 235	1450

Torx® keys

89S Long Torx® keys with spherical head

- Meets Torx® specifications.
- Spherical head provides a 20° working range for difficult-to-reach screws.
- Burnished finish.

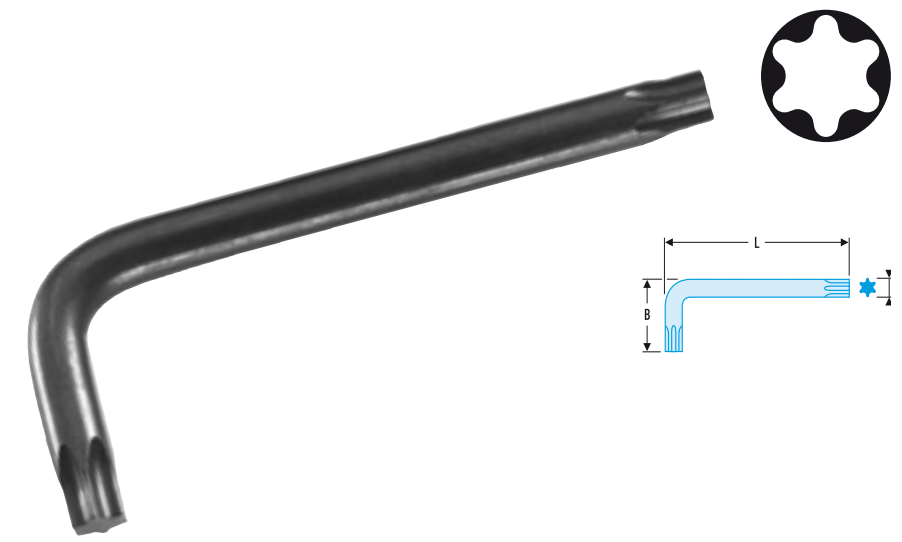
	Torx® n°	mm	B x L mm	g
89S.15	T15	3,26	21,0 x 93,0	8
89S.20	T20	3,84	23,0 x 99,0	10
89S.25	T25	4,40	24,5 x 104,5	18
89S.27	T27	4,96	26,0 x 110,0	23
89S.30	T30	5,49	30,0 x 120,5	30
89S.40	T40	6,60	32,5 x 131,5	45
89S.45	T45	7,77	37,0 x 138,0	63



89 Short Torx® keys

- Meets Torx® specifications.
- Burnished finish.

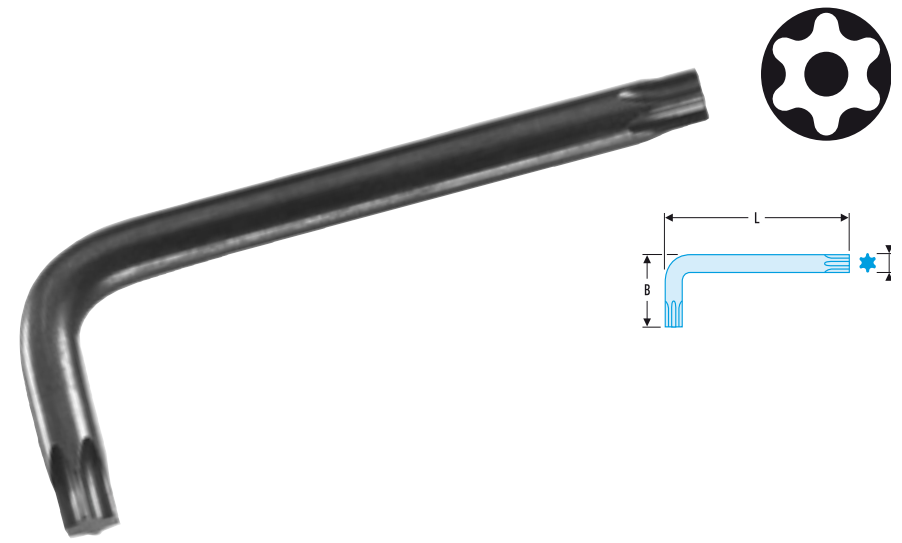
	Torx® n°	mm	B x L mm	g
89.6	T6	1,65	18 x 51	3
89.7	T7	1,97	18 x 51,5	3
89.8	T8	2,30	18 x 51,5	3
89.9	T9	2,48	19,5 x 51,5	4
89.10	T10	2,72	19,5 x 53	4
89.15	T15	3,26	21,5 x 57	6
89.20	T20	3,84	24 x 61	8
89.25	T25	4,40	25,5 x 63,5	11
89.27	T27	4,96	27 x 67,5	16
89.30	T30	5,49	30 x 76	20
89.40	T40	6,60	34 x 83,5	31
89.45	T45	7,77	37 x 88,5	43
89.50	T50	8,79	41 x 106	62
89.55	T55	11,17	48 x 121	70



89R Short Resistorx® keys

- Meets Resistorx® specifications.
- For safety fasteners.
- Burnished finish.

	Torx® n°	mm	B x L mm	g
89R.10	T10	2,72	20 x 54	4
89R.15	T15	3,26	21 x 57	6
89R.20	T20	3,84	24 x 61	8
89R.25	T25	4,40	25 x 65	11
89R.30	T30	5,49	30 x 76	20
89R.40	T40	6,60	33 x 83	31



Nut spinners - Tee-handle keys

7-piece spherical head tee-handle hexagon key module

MOD.84TZS

	Key		Plateau	kg
MOD.84TZS	6 pans	84TZ 3 - 84TZS.4 - 5 - 6 - 7 - 8 - 10	PL.329	0,996

7-piece tee-handle Torx® key module

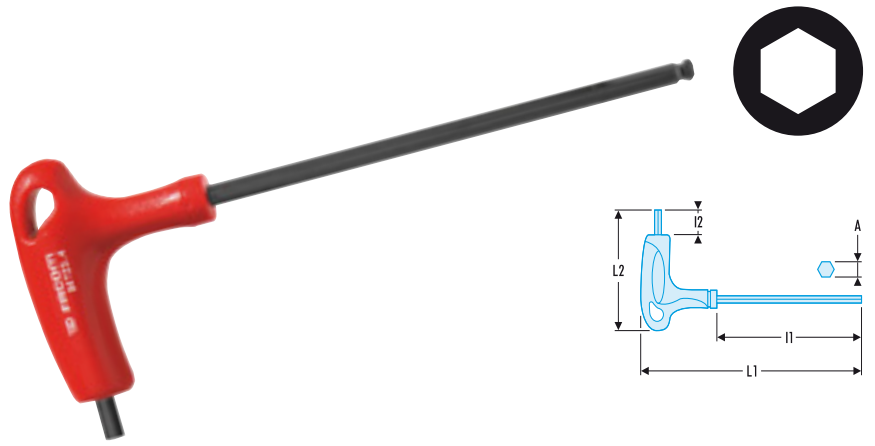
MOD.89TX

- ✱ 89.TX 10 - 15 - 20 - 25 - 27 - 30 - 40.
- Tray PL.328.

	Key		Plateau	kg
MOD.89TX	Torx®	89.TX 10 - 15 - 20 - 25 - 27 - 30 - 40	PL.328	0,648

84TZS Metric hexagon keys with spherical head

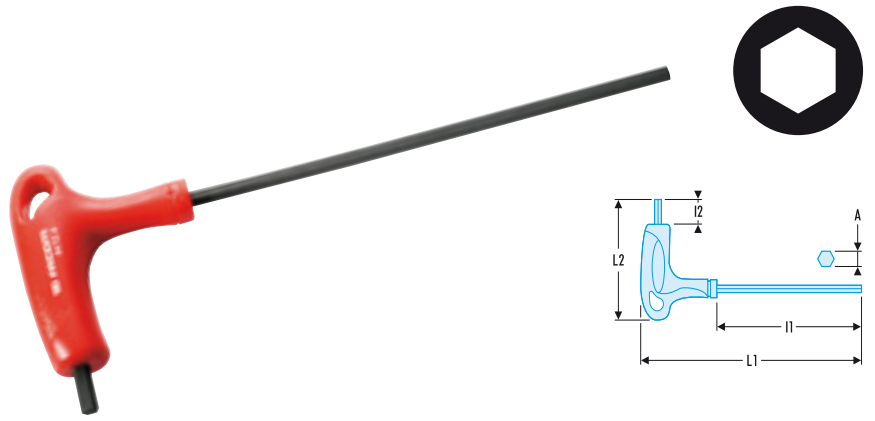
- Ergonomic tee-handle allows effective use of either end of key.
- Spherical head gives a working angle of up to 30°. Short shank provides extra torque for tightening.
- Polished phosphate finish.
- Silicon steel.



	A mm	l2 x l1 mm	L2 x L1 mm	g
84TZS.4	4	12 x 130	77 x 183	58
84TZS.5	5	12 x 130	77 x 183	70
84TZS.6	6	15 x 175	95 x 240	112
84TZS.7	7	15 x 175	95 x 240	120
84TZS.8	8	15 x 175	95 x 240	125
84TZS.10	10	15 x 175	95 x 240	192

84TZ Standard metric hexagon keys

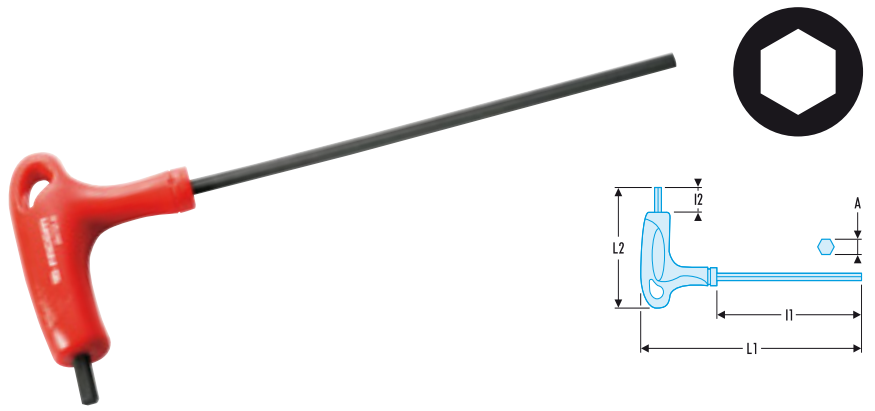
- Ergonomic tee-handle allows effective use of either end of key.
- Polished phosphate finish.
- Silicon steel.



	A mm	l2 x l1 mm	L2 x L1 mm	g
84TZ.2,5	2,5	11 x 90	63 x 133	9
84TZ.3	3	11 x 90	63 x 133	12
84TZ.4	4	12 x 130	77 x 183	58
84TZ.5	5	12 x 130	77 x 183	70
84TZ.6	6	15 x 175	95 x 240	112
84TZ.8	8	15 x 175	95 x 240	125
84TZ.10	10	15 x 175	95 x 240	192

84TZ Standard inch hexagon keys

- Ergonomic tee-handle allows effective use of either end of key.
- Polished phosphate finish.
- Silicon steel.

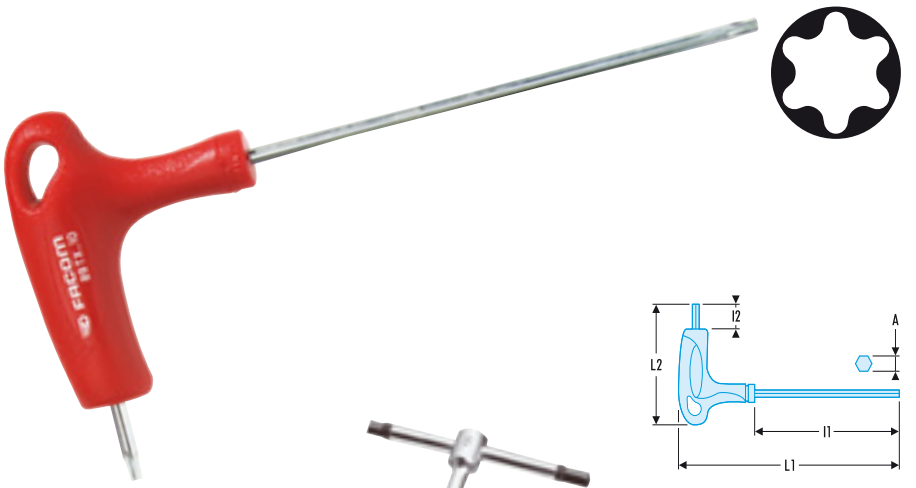


	A "	l2 x l1 mm	L2 x L1 mm	g
84TZ.5/32	5/32	12 x 130	77 x 183	58
84TZ.3/16	3/16	12 x 130	77 x 183	65
84TZ.7/32	7/32	15 x 175	95 x 240	80
84TZ.1/4	1/4	15 x 175	95 x 240	115
84TZ.5/16	5/16	15 x 175	95 x 240	125
84TZ.3/8	3/8	15 x 175	95 x 240	180

89TX Torx® nut spinners

- Ergonomic handle allows effective use of either end of key.
- Chrome finish, sand-blasted tips.

	Torx® n°	A mm	l2 x l1 mm	L2 x L1 mm	g
89TX.6	T6	1,65	11 x 90	63 x 133	7
89TX.7	T7	1,97	11 x 90	63 x 133	8
89TX.8	T8	2,30	11 x 90	63 x 133	9
89TX.9	T9	2.48	11 x 90	63 x 133	10
89TX.10	T10	2,72	11 x 90	63 x 133	12
89TX.15	T15	3,26	11 x 90	63 x 133	15
89TX.20	T20	3,84	12 x 130	77 x 183	40
89TX.25	T25	4,40	12 x 130	77 x 183	55
89TX.27	T27	4,96	12 x 130	77 x 183	60
89TX.30	T30	5,49	15 x 175	95 x 240	90
89TX.40	T40	6,60	15 x 175	95 x 240	105
89TX.45	T45	7,77	15 x 175	95 x 240	125
89TX.50	T50	8,79	15 x 175	95 x 240	170

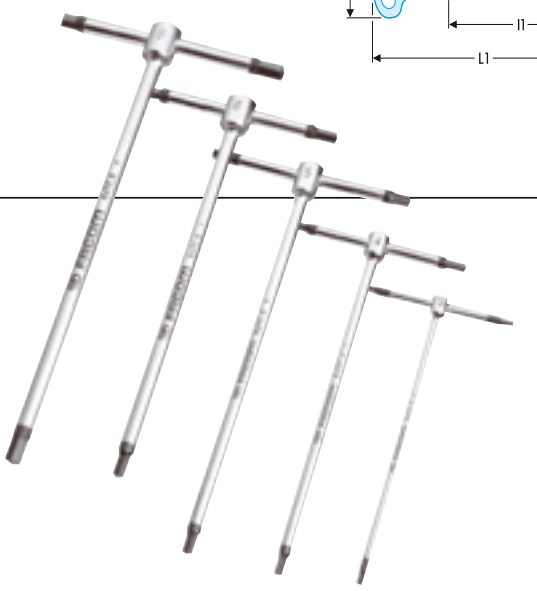


5-piece set of tee-handle keys

84TC.JE5

- Contains models 84TC.3 - 4 - 5 - 6 - 8 mm.

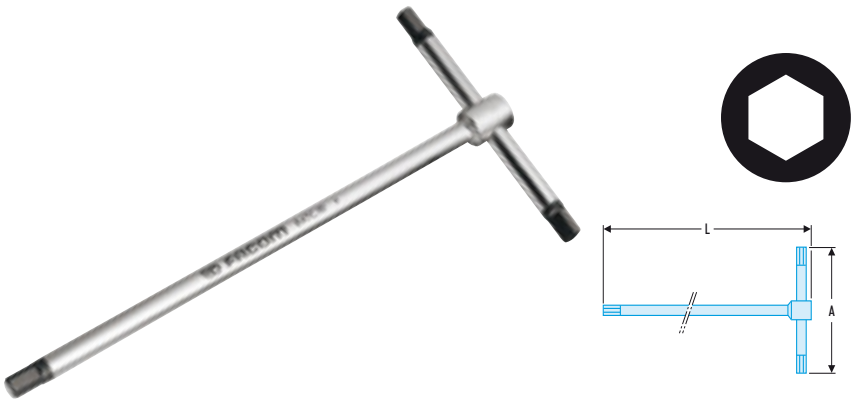
⚖ : 519 g.



84TC Metric tee-handle hexagon keys

- All 3 ends with hexagon.
- Burnish-tipped chrome finish.

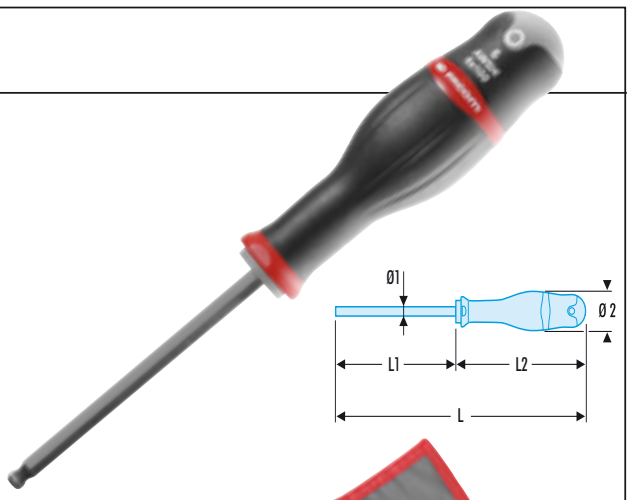
	mm	A mm	L mm	g
84TC.3	2,0	62,5	125	22
84TC.4	4,0	62,5	125	22
84TC.3	3,0	75,0	150	26
84TC.4	4,0	90,0	180	63
84TC.5	5,0	105,0	210	100
84TC.6	6,0	105,0	210	145
84TC.8	8,0	125,0	250	220
84TC.10	10,0	150,0	300	440
84TC.12	12,0	160,0	320	645
84TC.14	14,0	170,0	340	680



New

AWSH Hexagon nut drivers - spherical head

	mm	l1xL1 mm	Ø2 x L2 mm	L mm	g
AWSH2X75	2	2,0 x 75	19 x 94	169	31
AWSH2,5X75	2,5	2,5 x 75	19 x 94	169	33
AWSH3X75	3	3, 0 x 75	19 x 94	169	35
AWSH4X75	4	4,0 x 75	25 x 103	178	45
AWSH5X100	5	5,0 x 100	30 x 109	209	80
AWSH6X100	6	6,0 x 100	36 x 120	220	120
AWSH8X100	8	8,0 x 100	36 x 120	220	180



Set of hexagon nut drivers with spherical head

AWSH.JT6

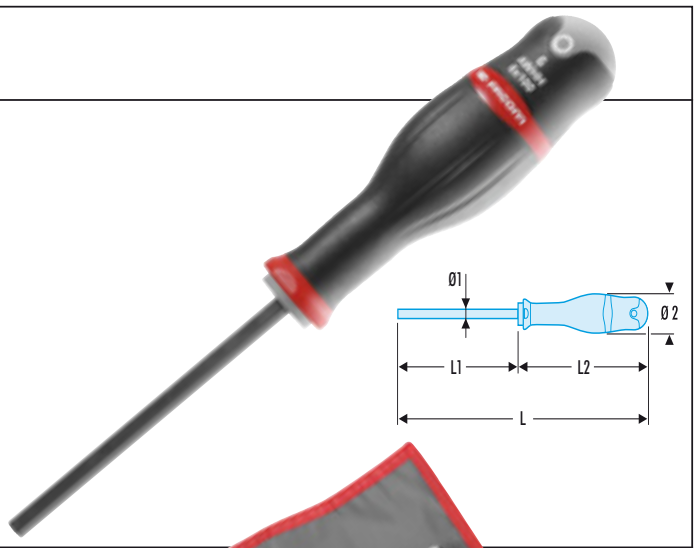
	Contents	Qty
AWSH.JT6	AWSH2X75 - AWSH2,5X75 - AWSH3X75 - AWSH4X75 - AWSH5X100 - AWSH6X100	6

Protwist®

New

AWHH Hexagon nut spinners

	⬣ mm	Ø2 x L2 mm	L mm	⬣1xL1 mm	⚖ g
AWHH2X75	2	19 x 94	169	2,0 x 75	31
AWHH2,5X75	2,5	19 x 94	169	2,5 x 75	33
AWHH3X75	3	19 x 94	169	3,0 x 75	35
AWHH4X75	4	25 x 103	178	4,0 x 75	45
AWHH5X100	5	30 x 109	209	5,0 x 100	80
AWHH6X100	6	36 x 120	220	6,0 x 100	120
AWHH8X100	8	36 x 120	220	8,0 x 100	180



Set of hexagon nut spinners

AWHH.JT6

	Contents	Qty
AWHH.JT6	⬣ AWHH2X75 - AWHH2,5X75 - AWHH3X75 - AWHH4X75 - AWHH5X100 - AWHH6X100	6

Protwist®

Special pattern keys

Set of keys for spline sockets (XZN)

80.JL7

- Set of 7 keys type 80 : M5 - M6 - M8 - M10 - M12 - M14 - M16.
- Supplied in a wallet.

⚖ : 918 g.

Set of keys for groove sockets

81.JL7

- Set of 7 keys type 81 M5 - M6 - M8 - M10 - M12 - M14 - M16.
- Supplied in a wallet.

⚖ : 907 g.

10-piece wallet set of keys for Bristol sockets

85.JU10

- Set of 10 keys type 85 033-048-060-072-096-111-133-145-168-183.
- Supplied in a wallet.

⚖ : 37 g.

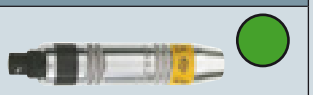
Correct bit selection

QUALITY - DURABILITY

The Facom bit range offers a versatile choice, but no single product covers all applications. It is therefore essential to match hardness with usage and carry out tests, where necessary to select the most appropriate type of bit.

Choosing the right bit for your needs

1 - According to the type of screw-driving method used :

Driving method/ Bit type	Manual E.g. : bit driver	Powered E.g. : screw gun	Impact E.g. : impact screwdriver
STANDARD	●	●	
TORSION	●	●	
TITANIUM TORSION	●	●	
IMPACT			 ●

● Occasional
● Recommended
● Ideal

2 - According to the hexagon drive :

Fittings	STANDARD		High Perf'		TITANIUM High Perf'		IMPACT	
∅ 1/4" 1-series		Page 345		Page 355		Page 356		
∅ 1/4" with groove 6-series		Page 349		Page 356		Page 357		
∅ 5/16" 2-series		Page 351						Page 362
∅ 1/2" 3-series								Page 363

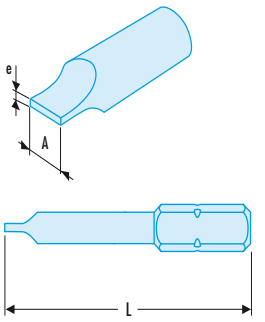
Standard bits

Standard 1-series - 1/4" (6.35 mm) drive bits

ES.1 Bits for slotted heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 2380-1, ISO 2351-1.

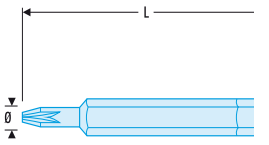
	e x A mm	Length mm	⚖ g
ES.133	0,5 x 3,0	25	5
ES.133,5	0,6 x 3,5	25	5
ES.134	0,6 x 4,0	25	6
ES.134,5	0,6 x 4,5	25	6
ES.135,5	0,8 x 5,5	25	8
ES.136,5	1,2 x 6,5	25	9
ES.138	1,2 x 8,0	25	12



EP.1 Bits for Phillips® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

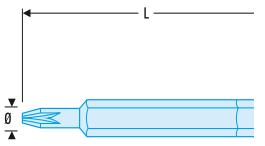
	Phillips® no.	Length mm	⚖ g
EP.100	PH.0	25	7,2
EP.101	PH.1	25	8,0
EP.111	PH.1	50	14,4
EP.102	PH.2	25	8,0
EP.122	PH.2	50	14,4
EP.103	PH.3	25	14,4



ED.1 Bits for Pozidriv® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

	Pozidriv® no.	Length mm	⚖ g
ED.100	PZ.0	25	6
ED.101	PZ.1	25	7
ED.111	PZ.1	50	11
ED.102	PZ.2	25	7
ED.112	PZ.2	50	12
ED.103	PZ.3	25	12

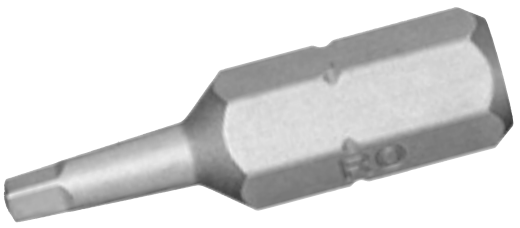


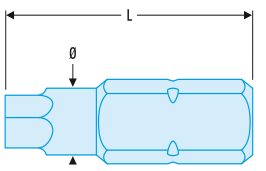
ECAR.1 Bits for square socket heads

▷ ISO 1173, DIN 3126.

• 1/4" (6,35 mm) drive.

	▢ no.	Ø mm	L mm	⚖ g
ECAR.101	1	3,5	25	8
ECAR.102	2	6	25	10
ECAR.103	3	6	25	12



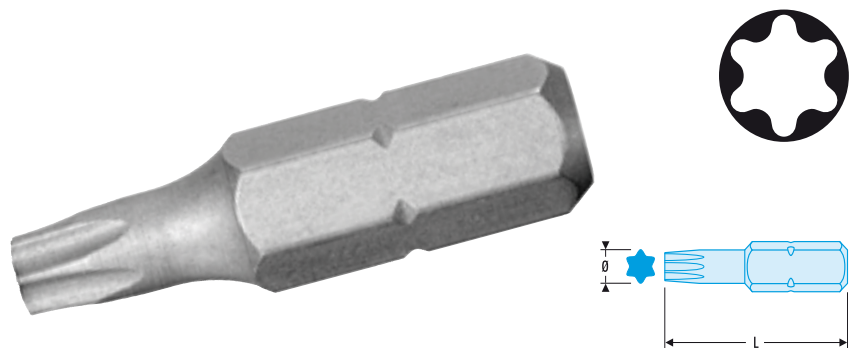


EX.1 Bits for Torx® heads

▷ ISO 1173, DIN 3126, NF ISO 1173.

- Meets Torx® specifications.

	Torx® n°	mm	L mm	g
EX.106	T6	1,65	25	5
EX.107	T7	1,97	25	5
EX.108	T8	2,30	25	5
EX.109	T9	2,48	25	5
EX.110	T10	2,72	25	5
EX.115	T15	3,26	25	5
EX.120	T20	3,84	25	6
EX.125	T25	4,40	25	6
EX.127	T27	4,96	25	6
EX.130	T30	5,49	25	6
EX.140	T40	6,60	25	6



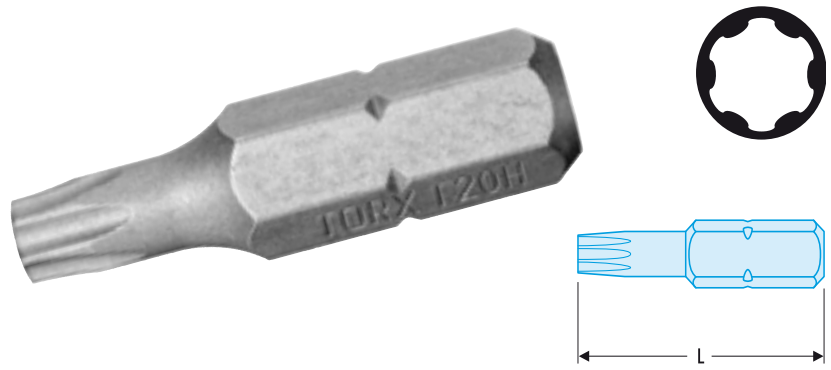
New

EXP.1 Bits for Torx Plus® heads

▷ ISO 1173, DIN 3126, NF ISO 1173.

- Meets Torx Plus® specifications.

	Torx® n°	L mm	g
EXP.106	IP6	25	5
EXP.107	IP 7	25	5
EXP.108	IP 8	25	5
EXP.109	IP 9	25	5
EXP.110	IP 10	25	5
EXP.115	IP 15	25	5
EXP.120	IP 20	25	6
EXP.125	IP 25	25	6
EXP.127	IP 27	25	6
EXP.130	IP 30	25	6
EXP.140	IP 40	25	6



EXR.1 Bits for Resistorx® heads

▷ ISO 1173, DIN 3126, NF ISO 1173

- Meets Resistorx® specifications.
- For Resistorx safety fasteners.®.
- Long reach provides access to recessed fasteners.

	Torx® n°	mm	Ø mm	L mm	g
EXR.110	IP 10	2,72		25	5
EXR.115	IP 15	3,26		25	6
EXR.120	IP 20	3,84		25	6
EXR.125	IP 25	4,40		25	6
EXR.127	IP 27	4,96		25	6
EXR.130	IP 30	5,59		25	6
EXR.140	IP 40	6,60		25	6
EXR.110L	IP 10	2,72	5,2	70	8
EXR.115L	IP 15	3,26	5,2	70	8
EXR.120L	IP 20	3,84	5,6	70	9
EXR.125L	IP 25	4,40	5,6	70	11
EXR.130L	IP 30	5,59	6,0	70	14
EXR.140L	IP 40	6,60	7,1	70	17

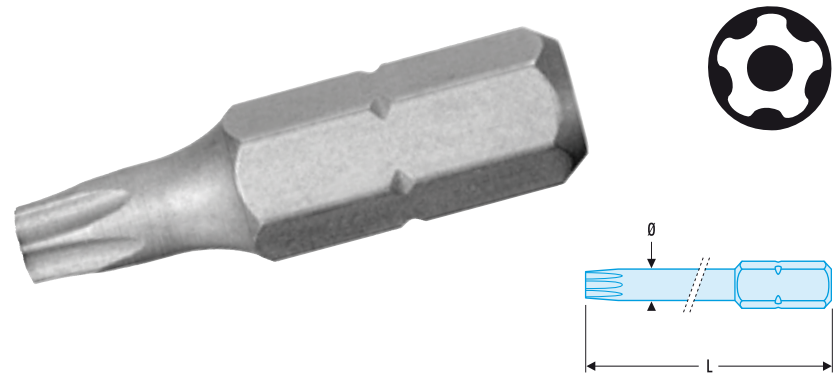
New

EXRP.1 Bits for Torx Plus® Tamper Resistant heads

▷ ISO 1173, DIN 3126, NF ISO 1173

- Meets Torx® specifications.

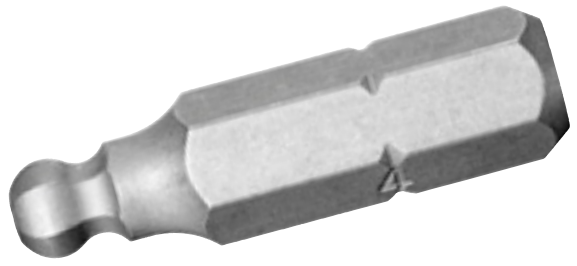
	Torx® n°	L mm	g
EXRP.108	IPR 8	25	5
EXRP.110	IPR 10	25	5
EXRP.115	IPR 15	25	6
EXRP.120	IPR 20	25	6
EXRP.125	IPR 25	25	6
EXRP.127	IPR 27	25	6
EXRP.130	IPR 30	25	6
EXRP.140	IPR 40	25	6

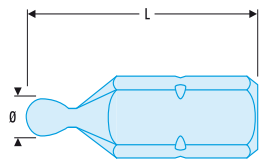


ETS.1 Bits for metric hexagon socket heads with spherical head

▷ ISO 1173, DIN 3126, NF ISO 1173.
• Spherical head gives a working angle of up to 30°.

	mm	L mm	g
ETS.102,5	2,5	25	5
ETS.103	3	25	5
ETS.104	4	25	5
ETS.105	5	25	6
ETS.106	6	25	6

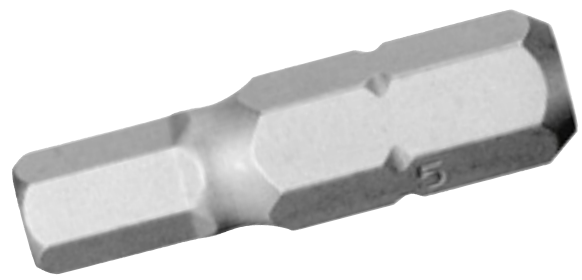


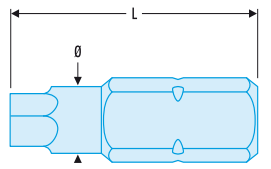


EH.1 Bits for metric hexagon socket heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 2936, ISO 2351-3.

	mm	Length mm	g
EH.101,5	1,5	25	5
EH.102	2	25	5
EH.102,5	2,5	25	5
EH.103	3	25	5
EH.104	4	25	5
EH.105	5	25	6
EH.106	6	25	7
EH.107	7	25	8
EH.108	8	25	9
EH.110	10	25	11

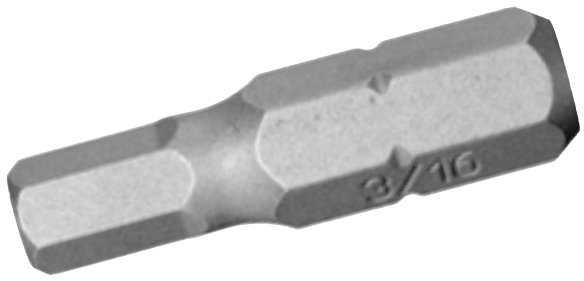


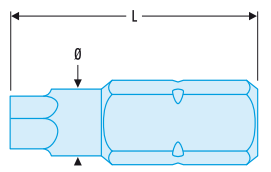


EH.1 Bits for inch hexagon socket heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 2936, ISO 2351-3.

	"	Length mm	g
EH.101/8	1/8	25	5
EH.105/32	5/32	25	5
EH.103/16	3/16	25	5
EH.107/32	7/32	25	6
EH.101/4	1/4	25	7





EV.1 Bits for spline socket heads (XZN)

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 2936, ISO 2351-3.

	O	L mm	g
EV.104	M4	25	5
EV.105	M5	25	5
EV.106	M6	25	6
EV.108	M8	25	7
EV.110	M10	25	8

Bits for Tri-wing heads

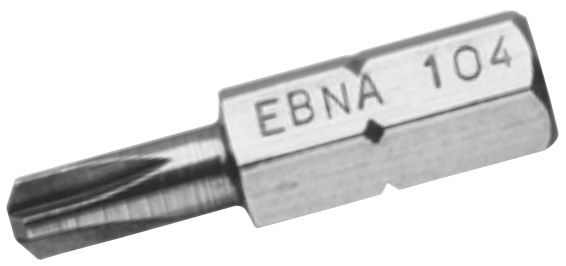
▷ ISO 1173, DIN 3126, NF ISO 1173.

	Tri-Wing screw® no.	Length mm	⏢ g
ETRI.101	1	25	5,5
ETRI.102	2	25	5,5
ETRI.103	3	25	5,5
ETRI.104	4	25	5,5
ETRI.105	5	25	5,5

For BNAE heads

▷ ISO 1173, DIN 3126, NF ISO 1173.

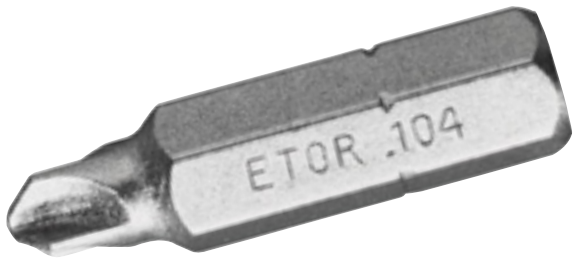
	BNAE no.	Length mm	⏢ g
EBNA.104	4	25	5
EBNA.105	5	25	5
EBNA.106	6	25	6



ETOR 1/4" bits for Torq Set® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 2380-1, ISO 2351-1.

	Torq-Set® screw n°	Length mm	⏢ g
ETOR.100	0	25	5,5
ETOR.101	1	25	5,5
ETORM.102	2	25	6
ETORM.103	3	25	6
ETORM.104	4	25	6
ETORM.105	5	25	6
ETORM.106	6	25	6
ETORM.108	8	25	6
ETORM.110	10	25	6
ETORM.101/4	1/4	32	13

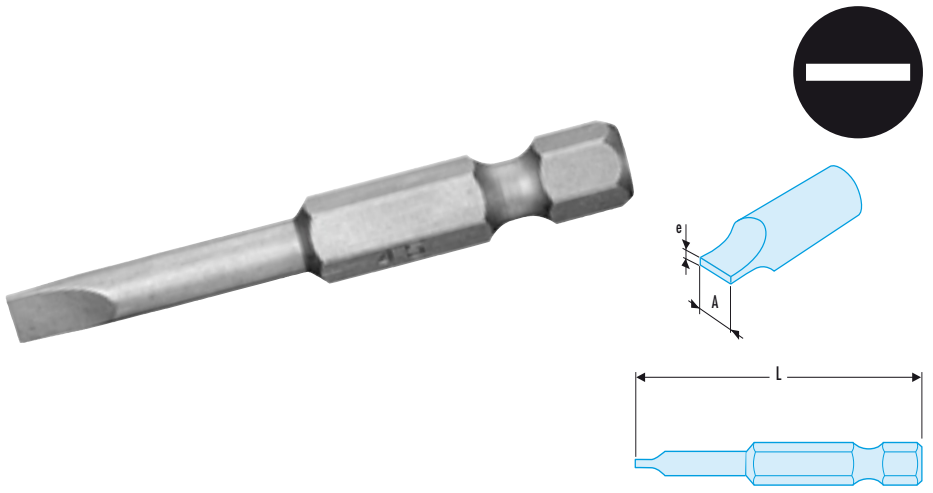


6-series 1/4" (6.35 mm) drive bits with groove

ES.6 Bits for slotted heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 2380-1, ISO 2351-1.

	e x A mm	L mm	⚖ g
ES.603	0,5 x 3	50	7,7
ES.603,5	0,6 x 3,5	50	7,9
ES.604	0,5 x 4	50	8,6
ES.604,5	0,6 x 4,5	50	9
ES.605,5	0,8 x 5,5	50	10
ES.606,5	1,2 x 6,5	50	11,5
ES.608	1,2 x 8	50	13,7
ES.623	0,5 x 3	70	8,8
ES.623,5	0,6 x 3,5	70	9,4
ES.624	0,8 x 4	70	10,6
ES.625,5	1 x 5,5	70	13,7
ES.634	0,8 x 4	90	12,6
ES.635,5	1 x 5,5	90	17,5



EP.6 Bits for Phillips® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

	Phillips® no.	L mm	⚖ g
EP.661	PH.1	70	PH.1
EP.662	PH.2	70	PH.2
EP.663	PH.3	70	PH.3
EP.691	PH.1	90	16.1
EP.692	PH.2	90	17.9

ED.6 Bits for Pozidriv® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

	Pozidriv® n°	⚖ g	Pozidriv® no.
ED.661	PZ.1	12,4	12,4
ED.662	70	14,4	14,4
ED.663	70	70	PZ.3
ED.691	PZ.1	16,1	16,1
ED.692	90	17,9	PZ.2
ED.693	90	90	PZ.3

EX.6 Bits for Torx® heads

▷ ISO 1173, DIN 3126, NF ISO 1173.

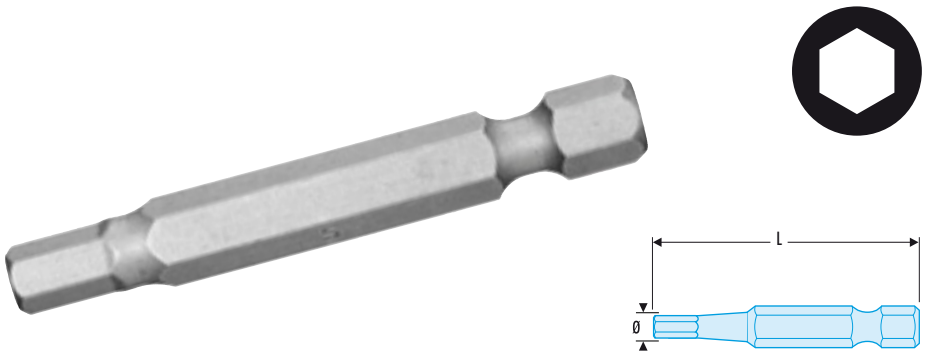
• Meets Torx® specifications.

	Torx® n°	✱ mm	Ø mm	L mm	⚖ g
EX.610	T10	2,72	5,2	70	8,4
EX.615	T15	3,26	5,2	70	8,6
EX.620	T20	3,84	5,6	70	9,8
EX.625	T25	4,40	5,6	70	11,5
EX.627	T27	4,96	5,8	70	12,9
EX.630	T30	5,59	6	70	14,5
EX.640	T40	6,60	7,1	70	17,6

EH.6 Bits for hexagon socket heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 2936, ISO 2351-3.

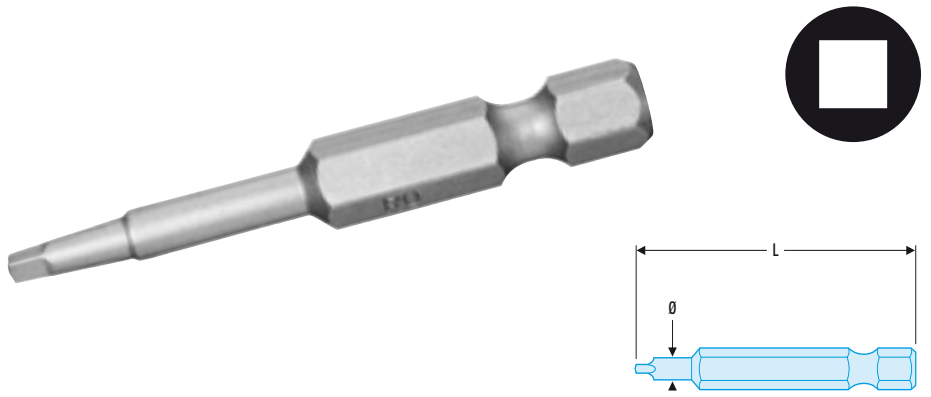
	mm	L mm	g
EH.603	3	50	14,4
EH.604	4	50	14,4
EH.605	5	50	15,0
EH.606	6	50	15,5
EH.608	8	50	18,0



ECAR.6 Bits for square socket heads

▷ ISO 1173, DIN 3126, NF ISO 1173.

	no.	L mm	g
ECAR.601	1	50	10
ECAR.602	2	50	12
ECAR.603	3	50	15



EF.6DM Magnetic hex nut setters

▷ ISO 1173, DIN 3126, NF ISO 1173.

• Magnet holds fastener on bit.

	A mm	L mm	g
EF.6DM5,5L	5,5	70	31
EF.6DM7L	7	70	36
EF.6DM8L	8	70	42
EF.6DM10L	10	70	49
EF.6DM13L	13	70	63

EF.6D Hex nut setters

▷ ISO 1173, DIN 3126, NF ISO 1173.

	A mm	L mm	g
EF.6D5,5L	5,5	70	26
EF.6D7L	7	70	32
EF.6D8L	8	70	37
EF.6D10L	10	70	44
EF.6D13L	13	70	58

ETORM 1/4" drive bits with groove for Torq Set® heads

▷ ISO 1173, DIN 3126, NF ISO 1173.

	Torq-Set®screw n°	Length mm	ΔΔ g
ETORM.602	2	50	12
ETORM.603	3	50	12
ETORM.604	4	50	12
ETORM.605	5	50	12
ETORM.606	6	50	12
ETORM.608	8	50	12
ETORM.610	10	50	12
ETORM.601/4	1/4	50	12

2-series 5/16" (7.94 mm) drive bits

ES.2 Bits for slotted heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 2380-1, ISO 2351-1.

	e x A mm	Length mm	ΔΔ g
ES.206,5	1,2 x 6,5	41	11
ES.208	1,2 x 8,0	41	13
ES.210	1,6 x 10,0	41	19
ES.212	2,0 x 12,0	41	23

EP.2 Bits for Phillips® heads

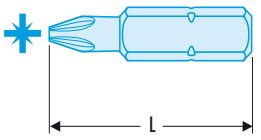
▷ ISO 1173, DIN 3126, NF ISO 1773, ISO 8764-1, ISO 2351-2.

	Phillips® no.	Length mm	ΔΔ g
EP.201	PH.1	32	10
EP.202	PH.2	32	11
EP.203	PH.3	32	11
EP.204	PH.4	32	14

ED.2 Bits for Pozidriv® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

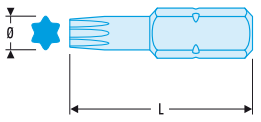
	Pozidriv® no.	L mm	g
ED.201	PZ.1	32	10
ED.202	PZ.2	32	11
ED.203	PZ.3	32	11
ED.204	PZ.4	32	12



EX.2 Bits for Torx® heads

▷ ISO 1173, DIN 3126, NF ISO 1173.
- Meets Torx®.
- Length 35 and 70 mm.

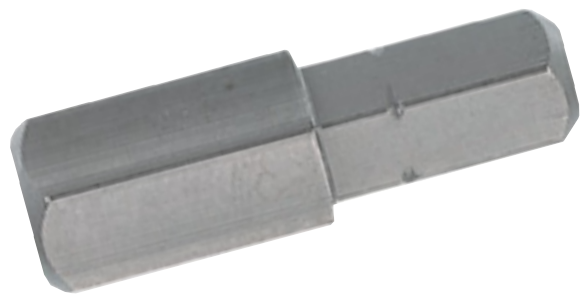
	Torx® n°	A mm	Ø mm	L mm	g
EX.220	T20	3,84		35	13
EX.225	T25	4,40		35	13
EX.227	T27	4,96		35	13
EX.230	T30	5,49		35	15
EX.240	T40	6,60		35	15
EX.245	T45	7,77		35	15
EX.250	T50	8,79		35	18
EX.255	T55	11,77		35	31
EX.220L	T20	3,84	5,6	70	25
EX.225L	T25	4,40	5,6	70	25
EX.230L	T30	5,49	6	70	30
EX.240L	T40	6,60	7	70	30
EX.245L	T45	7,77	Hex.7,94	70	40
EX.250L	T50	8,79	Hex.7,94	70	55



EH.2 Bits for hexagon socket heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 2936, ISO 2351-2.
- Metric and inch.

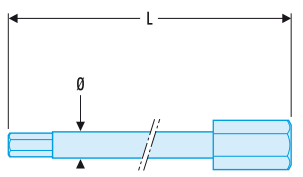
	mm	L mm	g
EH.204	4	30	8
EH.205	5	30	9
EH.206	6	30	11
EH.208	8	30	13
EH.210	10	30	17
EH.201/4	1/4	30	12
EH.205/16	5/16	30	15
EH.203/8	3/8	30	19



EH.2L Long-reach bits for hexagon socket heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 2936, ISO 2351-3.

	mm	Ø mm	L mm	g
EH.204L	4	4,8	70	15
EH.205L	5	6,0	70	19
EH.206L	6	7,0	70	23
EH.207L	7	8,9	70	28
EH.208L	8	8,9	70	29
EH.210L	10	11,3	70	42



EV.2 Bits for spline socket heads (XZN)

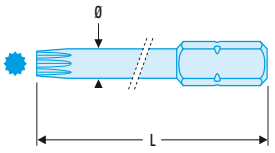
▷ ISO 1173, DIN 3126, NF ISO 1173.

	○	Length mm	⏢ g
EV.206	M6	28	9
EV.208	M8	28	10
EV.210	M10	32	15
EV.212	M12	36	21

EV.L Long-reach bits for spline socket heads (XZN)

▷ ISO 1173, DIN 3126, NF ISO 1173.

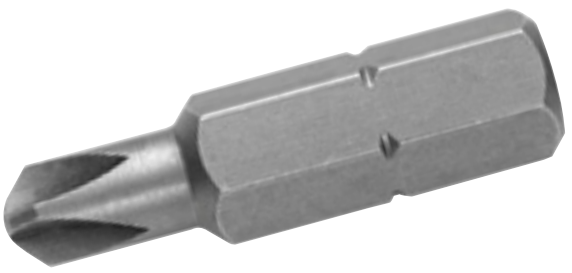
	○	L mm	Ø mm	⏢ g
EV.205L	M5	70	6,0	26
EV.206L	M6	70	7,0	27
EV.208L	M8	70	7,5	28
EV.210L	M10	70	10,0	39



ETORM.2 Bits for Torq Set® heads

▷ ISO 1173, DIN 3126, NF ISO 1173.

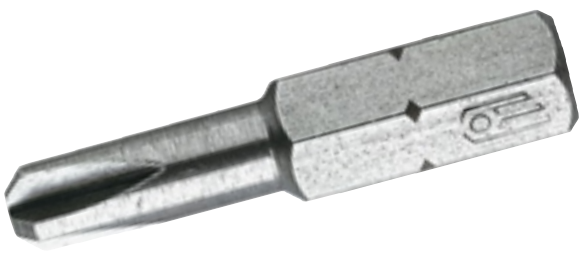
	Torq-Set®s-crewn°	Length mm	⏢ g
ETORM.208	8	32	14
ETORM.210	10	32	14
ETORM.201/4	1/4	32	14
ETORM.205/16	5/16	32	14
ETORM.203/8	3/8	32	14



EBNA.2 Bits for BNAE heads

▷ ISO 1173, DIN 3126, NF ISO 1173.

	BNAE no.	Length mm	⏢ g
EBNA.204	4	35	9
EBNA.205	5	35	9
EBNA.206	6	35	10
EBNA.208	8	35	10



1-series 1/4" (6.35mm) drive bit set

AME.B Box set of 9 bits + bit holder

- "Torsion" bits for Phillips®and Pozidriv® heads.
- Spring-clip bit holder EF.6P1.
- Compact box 115 x 52 x 21 mm.

	mm	no.	no.	mm	no.	n°	g
AME.B3	0,6 x 4,5 - 1 x 5,5 - 1,2 x 6,5	1 - 2 - 3	1 - 2 - 3				100
AME.B4	0,6 x 4,5 - 1 x 5,5		1 - 2	2,5 - 3 - 4 - 5 - 6			100
AME.B5	0,6 x 4,5 - 1 x 5,5	1 - 2			10 - 15 - 20 - 25 - 30		103
AME.B6					8 - 9	10 - 15 - 20 - 25 - 27 - 30 - 40	125

POCKET 6 Folding bit driver + bit sets

- 6 drivers in 1.
- Bits stored in handle.
- Magnetic bit holder.O 1/4".
- Closes to a compact size.
- EFPZ includes bits for slotted and Pozidriv® heads.
- EH includes hexagon bits.

	mm	no.	mm	g
EFPZ	4,5 - 6,5 - 8	1 - 2 - 3		200
EH			2,5 - 3 - 4 - 5 - 6 - 7	200

"Fitters" set

AME.JE1

- Comprising 16 tools :
- x15 1/4" drive bits and 1 hinged bit holder.
- ⊖ Torsion type for slotted heads 0.5 x 4 - 0.6 x 4.5 - 0.8 x 5.5 - 1.2 x 6.5 mm
- ✪ High Perf' type for Phillips® heads PH0 - 1 - 2 - 3
- ✲ High Perf' type for Pozidriv® heads PZ1 - 2.
- O : For hexagon heads 2 - 2.5 - 3 - 4 - 5 mm.
- Bit holder with hinged handle AMH.142.
- Supplied in a case 125 x 95 x 28 mm.

⚖ : 250 g.

"Motor mechanics" set

AME.JE2

- Comprising 16 tools :
- x15 1/4" drive bits and 1 hinged bit holder.
- ⊖ High Perf' type for slotted heads 0.5 x 4 - 0.6 x 4.5 - 0.8 x 5.5 - 1.2 x 6.5 mm,
- ✪ : High Perf' type for Pozidriv® heads PZ.0 - 1 - 2
- O : For hexagon heads 2.5 - 3 - 4 - 5 mm.
- ✪ : For Torx® heads no. T 10 - 20 - 25 - 30
- Bit holder with hinged handle AMH.142.
- Supplied in a case 125 x 95 x 28 mm.

⚖ : 250 g.

Ratchet wrench and bit set

65.PEJ13

- Wrench 68 A. PE.
- 13 bits.
- For Torx® Tamper Resistant® heads : EXR.110 - EXR.115 - EXR.120 - EXR.125 - EXR.130 - EXR.140.
- : For hexagon socket heads : EH.103 - EH.104 - EH.105 - EH.106.
- : For Pozidriv® heads : ED.101T - ED.102T - ED.103T.
- BP.102.
- PL.367 A.

: 400 g.

Bit modules

Bit modules

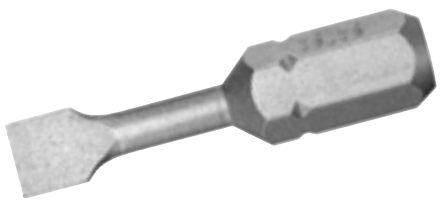
	Comprising		g
MOD.E20L	EH.204L - 205L - 206L - 207L - 208L - 210L EV.205L - 206L - 208L - 210L EX.230L - 240L - 245L - 250L EXR.110L - 115L - 120L - 125L - 130L - 140L Bit holders SJ.236 - R.235 - S.236	PL.624	755
MOD.E41	ED.101T-102T-103T - EH.104-105-106-107 - EH.204L-205L-206L-207L-208L-210L - EH.208-210 - EV.205L-206L-208L-210L - EV.206-208-210 - EX.230L-240L-245L-250L - EX.245-250-255	PL.621	895

High Perf' bits

1-series 1/4" (6.35 mm) drive High Perf' bits

ES.1T High Perf' bits for slotted heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 2380-1, ISO 2351-1.



	e x A mm	Length mm	g
ES.134T	0,5 x 4	25	2
ES.134,5T	0,6 x 4,5	25	3
ES.135,5T	0,8 x 5,5	25	3
ES.145,5T	1 x 5,5	25	4
ES.136,5T	1,2 x 6,5	25	4
ES.148T	1,6 x 8	25	8

EP.1T Bits for Phillips® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

	Phillips® no.	L mm	g
EP.101T	PH.1	25	3,5
EP.102T	PH.2	25	4,0
EP.103T	PH.3	25	4,2

ED.1T Bits for Pozidriv® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

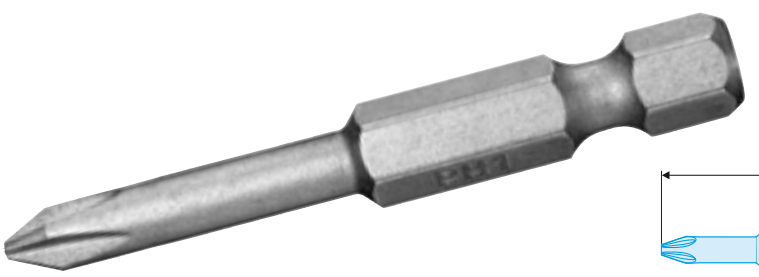
	Pozidriv® no.	L mm	⚖ g
ED.101T	PZ.1	25	3,5
ED.102T	PZ.2	25	4,0
ED.103T	PZ.3	25	4,2

6-series 1/4" (6.35 mm) drive High Perf' bits with groove

EP.6 Bits for Phillips® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

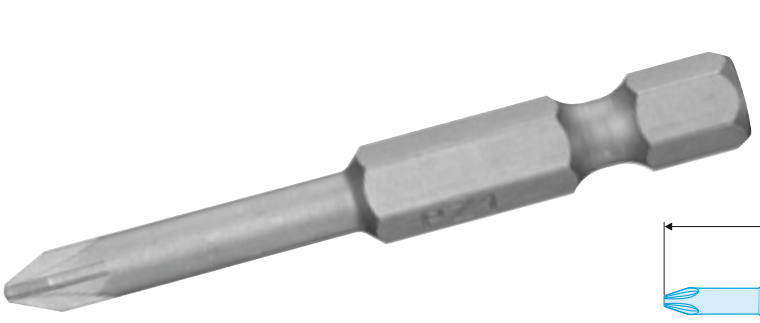
	Phillips® no.	L mm	⚖ g
EP.601T	PH.1	50	8,7
EP.602T	PH.2	50	10,0
EP.603T	PH.3	50	11,5



ED.60T Bits for Pozidriv® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

	Pozidriv® n°	Length mm	⚖ g
ED.601T	PZ.1	50	8,7
ED.602T	PZ.2	50	10,0
ED.603T	PZ.3	50	11,5



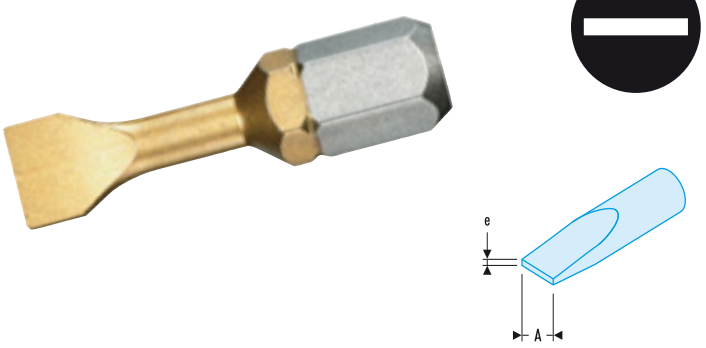
Titanium High Perf' bits

1-series 1/4" (6.35 mm) drive titanium High Perf' bits

ES.12T Bits for slotted heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 2380-1, ISO 2351-1.

	e x A mm	L mm	⚖ g
ES.124,5T	0,6 x 4,5	25	3
ES.125,5T	0,8 x 5,5	25	3
ES.175,5T	1,0 x 5,5	25	4
ES.126,5T	1,2 x 6,5	25	4
ES.128T	1,6 x 8	25	8



EP.13T Bits for Phillips® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

	Phillips® no.	L mm	ΔΔ g
EP.131T	PH.1	25	3,5
EP.132T	PH.2	25	4,0
EP.133T	PH.3	25	4,2

ED.13T Bits for Pozidriv® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

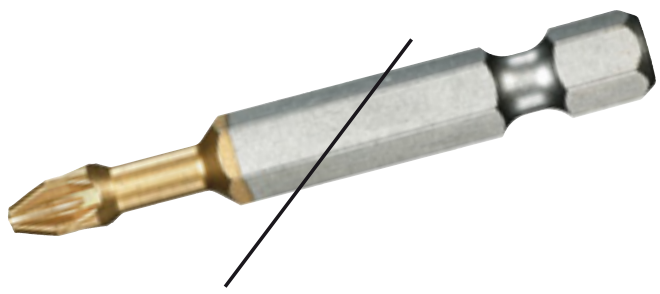
	Pozidriv® no.	L mm	ΔΔ g
ED.131T	PZ.1	25	3,5
ED.132T	PZ.2	25	4,1
ED.133T	PZ.3	25	4,2

6-series 1/4" (6.35 mm) drive titanium High Perf' bits with groove

EP.6T Bits for Phillips® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

	Phillips® no.	Length mm	ΔΔ g
EP.631T	PH.1	50	8,7
EP.632T	PH.2	50	10,0
EP.633T	PH.3	50	11,5



ED.6T Bits for Pozidriv® heads

▷ ISO 1173, DIN 3126, NF ISO 1173, ISO 8764-1, ISO 2351-2.

	Pozidriv® no.	Length mm	ΔΔ g
ED.631T	PZ.1	50	8,7
ED.632T	PZ.2	50	10,0
ED.633T	PZ.3	50	11,5

Bit holders and accessories

Bit holders and accessories for hand screw-driving applications

New

Ratchet bit drivers

ACL.1

- High quality 45 tooth mechanism for speed, precision, strength and durability.
- One-handed 3-position selector ring (screw, unscrew and tighten).
- Cap with 7 bit storage compartments.
- Cap can serve as an additional mini bit-holder for difficult-to-reach screw locations.
- Partly hollow handle for storing additional bits or screws.
- Bi-material, ergonomic handle for a powerful, comfortable screwing action.
- Very low blade return torque.
- Powerful magnetic adaptor holds the bit and the screw.
- Contains 8 bits :
- For slotted heads : 4 - 6,5.
- For Phillips® : PH1 - PH2.
- For Pozidriv® : PZ1 - PZ2.
- For hexagon socket heads : 4 - 6.

Magnetic bit driver with in-handle bit storage compartment

AFM.2

- Easy-to-reach in-handle storage for quick bit selection.
- End cap fits perfectly onto the handle and remains firmly in place during tightening.
- Fitted with a powerful magnetic adaptor. Magnet holds the screw on the bit.
- Polyamide handle and end cap highly resistant to impact and workshop chemicals.
- Contains six 1/4" drive bits 25mm long.
- For slotted heads : 0.5 x 4 mm - 0.8 x 5.5 mm
- For Phillips® heads no. 1 and 2
- For Pozidriv® heads no. 1 and 2
- Chrome finished hardened steel blade.
- Supplied in a reusable transparent plastic sleeve.
- Total weight : 218 g (including 41g sleeve).

New

AM Bit driver

AM.H : spring-clip model.
AM.M1 : short-reach magnetic model.
AM.M2 : long-reach magnetic model.

	A mm	B mm	L mm	⚖ g
AM.H	11	75	180	80
AM.M1	10	63	180	120
AM.M2	10	125	245	150

1/4" - 5/16" bit holder wrench

65.PE

- Takes bits :
- Series 1 : hexagonal 1/4"
- Series 2 : hexagonal 5/16"
- Used for installing 1/4" and 5/16" aircraft fasteners.
- 5° increments.
- Heads angled at 15°.
- Bits retained by spring-clip.
- Knurled head for fast pre-tightening.
- Length : 150 mm
- Satin chrome finish.

⚖ : 74 g

Socket adaptor - ☐ 1/4" - ∅ 1/4"

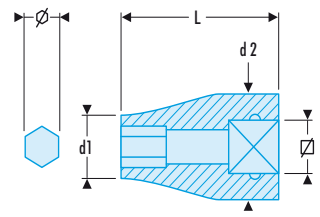
ECR

- For using 1/4" sockets with drivers A.400, A.440, A.301MT and A.341MT.
- Length 25 mm.

⚖ : 15 g.

Spring-clip bit holders for 1-series 1/4" (6.35 mm) drive bits

- Bit holder R.245 includes a spring clip for secure bit retention. For infrequent bit changes, the square drive has a hole for ball or plunger lock.
- Bit holders R.235, J.235, SJ.235 include a standard clip for frequent bit changes.

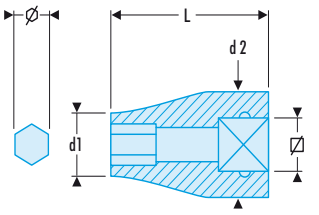


	∅ "	☐	d1 mm	d2 mm	L mm	⚖ g
R.235	1/4	1/4	11,3	11,3	22	10
R.245	1/4	1/4	11,3	11,3	22	10
J.235	1/4	3/8	11,3	18,0	30	26
SJ.235	1/4	CDX	11,3	18,6	30	28

J-SJ-S Spring-clip bit holders for 2-series 5/16" (7.94 mm) drive bits

• For manual use.

	∅ "	◰	d1 mm	d2 mm	L mm	⚖ g
J.236	5/16	3/8	14	18,0	30	30
SJ.236	5/16	CDX	14	18,6	30	32
S.236	5/16	1/2	14	23	36	54



Bit holders and accessories for non-impact powered screw-driving applications

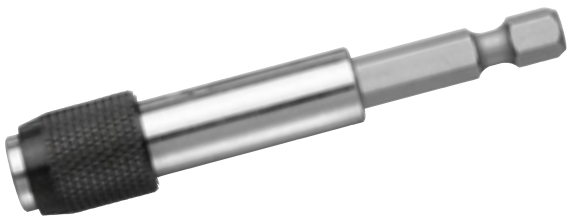
EF Bit holders with lock-ring

	∅ "	◰	Length mm	⚖ g
EF.R	1/4	1/4	30	26
EF.J	1/4	3/8	43	48
EF.S	1/4	1/2	50	88

Magnetic bit-holder with lock-ring

EF.6P6

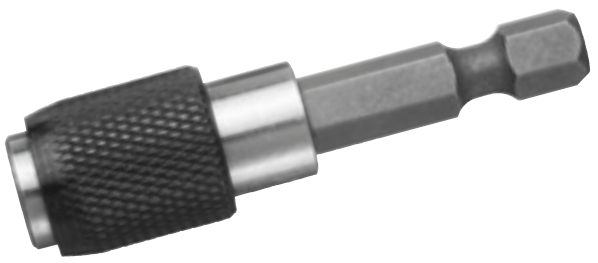
• For quick bit changes.
• Magnet holds fastener on bit.
• Length 77 mm.
⚖ : 41 g.



Bit-holder with lock-ring

EF.6P5

• For quick bit changes.
• Length 51 mm.
⚖ : 31 g.



Short-reach spring-clip bit holder

EF.6P1

• Length 57 mm.
⚖ : 30 g.

Magnetic bit holder

EF.6P3

- Copper-beryllium body.
- Length 74 mm.

⚖ : 39 g.

Magnetic bit holder

EF.6P4

- Length 75 mm.

⚖ : 36 g.

Socket holder ☐ 1/4"

EF.6R

- Socket locking plunger.
- Length 50 mm.

⚖ : 16 g.

Long-reach socket holder ☐ 1/4"

EF.6RL

- Socket locking plunger.
- Length 100 mm.

⚖ : 38 g.

Socket holder ☐ 3/8"

EF.6J

- Socket locking plunger.
- Length 50 mm.

⚖ : 25 g.

Long-reach socket holder ⍁ 3/8"

EF.6JL

- Socket locking plunger.
- Length 100 mm.

⚖ : 80 g.

Impact bits

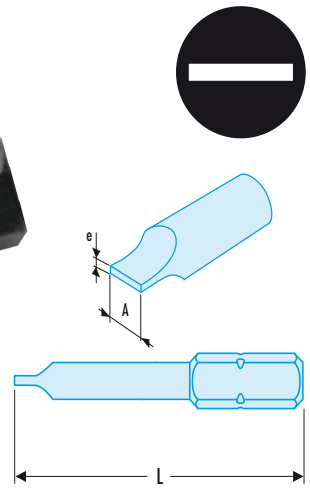
2-series 5/16" (7.94 mm) drive impact bits

ENS.2 Bits for slotted heads

▷ ISO 1173, DIN 3126, NF ISO 1173.

- For use with impact drivers.
- Burnished finish.

	e x A mm	L mm	⚖ g
ENS.205,5	0,8 x 5,5	41	10
ENS.206,5	1,2 x 6,5	41	12
ENS.208	1,2 x 8,0	41	14
ENS.210	1,6 x 10	41	19
ENS.212	2,0 x 12,0	41	22
ENS.214	2,5 x 14,0	41	28
ENS.215,5	1,0 x 5,5	41	10
ENS.218	1,6 x 8,0	41	19



ENP.2 Bits for Phillips® heads

▷ ISO 1173, DIN 3126, NF ISO 1173.

- For use with impact drivers.
- Burnished finish.

	Phillips® no.	L mm	⚖ g
ENP.201	PH.1	32	14
ENP.202	PH.2	32	14
ENP.203	PH.3	32	14
ENP.204	PH.4	32	14

END.2 Bits for Pozidriv® heads

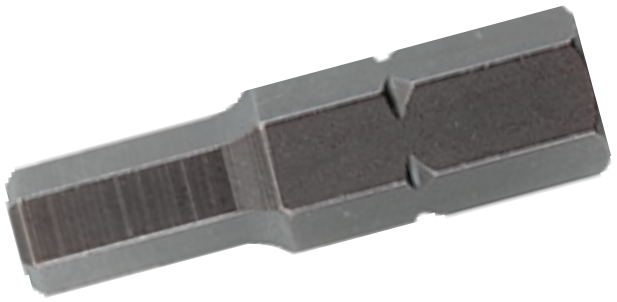
▷ ISO 1173, DIN 3126, NF ISO 1173.

- For use with impact drivers.
- Burnished finish.

	Pozidriv® no.	L mm	⚖ g
END.201	PZ.1	32	10
END.202	PZ.2	32	10
END.203	PZ.3	32	11
END.204	PZ.4	32	12

ENH.2 Bits for hexagon socket heads

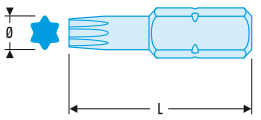
▷ ISO 1173, DIN 3126, NF ISO 1173.
- For use with impact drivers.
- Burnished finish.



	mm	L mm	g
ENH.204	4	30	9
ENH.205	5	30	10
ENH.206	6	30	11
ENH.208	8	30	13
ENH.210	10	30	17

ENX.2 Bits for Torx® heads

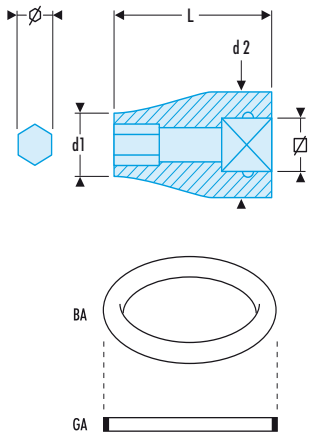
▷ ISO 1173, DIN 3126, NF ISO 1173.
- Meets Torx® specifications.
- For use with impact drivers.
- Burnished finish.



	Torx® no.	mm	L mm	g
ENX.220	T.20	3,84	35	13
ENX.225	T.25	4,40	35	13
ENX.227	T.27	4,96	35	13
ENX.230	T.30	5,49	35	15
ENX.240	T.40	6,60	35	15
ENX.245	T.45	7,77	35	15
ENX.250	T.50	8,79	35	18
ENX.255	T.55	11,77	35	31

NJ-NS.236A Impact bit-holders

- For your safety, always use locking rings and pins.
- Burnished finish.

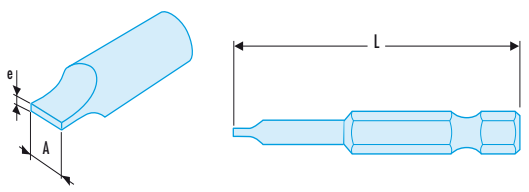


	"	"	Ø d1 mm	Ø d2 mm	GA	BA	L mm	g
NJ.236A	3/8	5/16	14,0	19	GA.15A	BA.16A	37	35
NS.236A	1/2	5/16	15,5	25	GA.20A	BA.20A	40	65

3-series 1/2" (12.7 mm) drive impact bits

ENS.3 Bits for slotted heads

- For use with impact tools.
- Burnished finish.

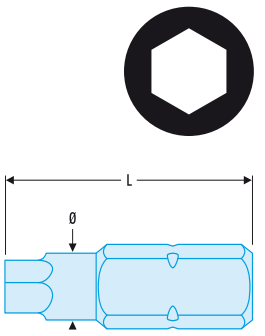


	e x A mm	L mm	g
ENS.312	2,0 x 12	50	40
ENS.314	2,5 x 14	50	46
ENS.316	2,5 x 16	50	59

ENH.3 Bits for metric hexagon socket heads

- For use with impact tools.
- Burnished finish.

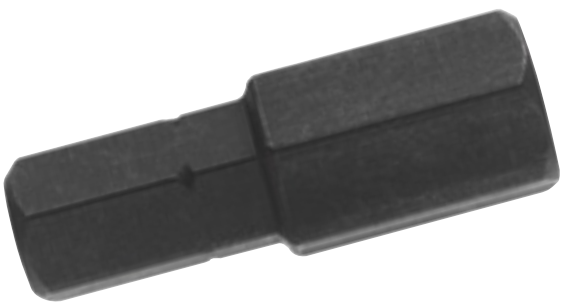
	mm	L mm	g
ENH.303	3	50	20
ENH.304	4	50	22
ENH.305	5	50	22
ENH.306	6	50	24
ENH.307	7	50	24
ENH.308	8	50	24
ENH.310	10	50	30
ENH.311	11	50	40
ENH.312	12	50	45
ENH.314	14	50	55
ENH.317	17	50	73
ENH.319	19	50	86

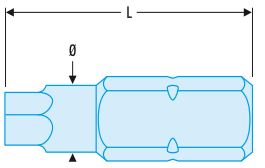


ENH.3 Bits for inch hexagon socket heads

- For use with impact tools.
- Burnished finish.

	"	L mm	g
ENH.301/2	1/2	50	48
ENH.309/16	9/16	50	57
ENH.305/8	5/8	50	65
ENH.303/4	3/4	50	86
ENH.307/16	7/16	50	40

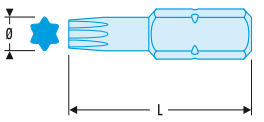




NEX Bits for Torx® heads

- Meets Torx® specifications.
- For use with impact tools.

	Torx® no.	mm	L mm	g
NEX.25A	T.25	4,40	50	18
NEX.27A	T.27	4,96	50	18
NEX.30A	T.30	5,49	50	20
NEX.40A	T.40	6,60	50	25
NEX.45A	T.45	7,77	50	25
NEX.50A	T.50	8,79	50	30
NEX.55A	T.55	11,17	50	38
NEX.60A	T.60	13,20	50	45
NEX.70A	T.70	15,49	50	55

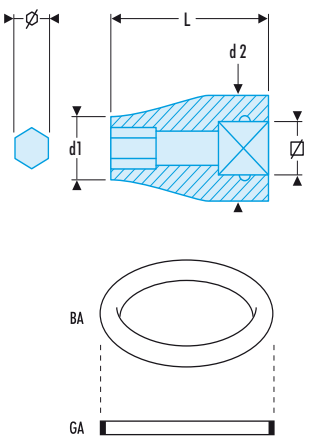


NJ-NS.237A Impact bit-holders

▷ ISO 1174-2, DIN 3121, NF ISO 1174-2.

- For use with impact tools.
- For your safety, always use locking rings and pins.
- Burnished finish.

	"	"	Ø d1 mm	Ø d2 mm	GA	BA	L mm	g
NJ.237A	3/8	1/2	19	19	GA.15A	BA.16A	37	40
NS.237A	1/2	1/2	20	25	GA.20A	BA.20A	40	40



Impact bit set

14-piece 1/2" drive impact bit set

NHX.14APF

• Comprising :
- 2 bit holders ☐ 1/2", ∅ 1/2" and 5/16".
- O Hexagonal 6-7-8-10-12 and 14 mm.
- ✪ Torx® no. 30-40-45-50 and 55.
- ✪ Phillips® 2 - 3 and 4.
- BP.102.
- PL.402A.

⚖ : 800 g.

14-piece 3/8" drive impact bit set

JHX.14

• Comprising :
- 2 bit holders ☐ 1/2", ∅ 1/2" and 5/16".
- O Hexagonal 6-7-8-10-12 and 14 mm.
- ✪ Torx® no. 30-40-45-50 and 55.
- BP.102.
- PL.402A.

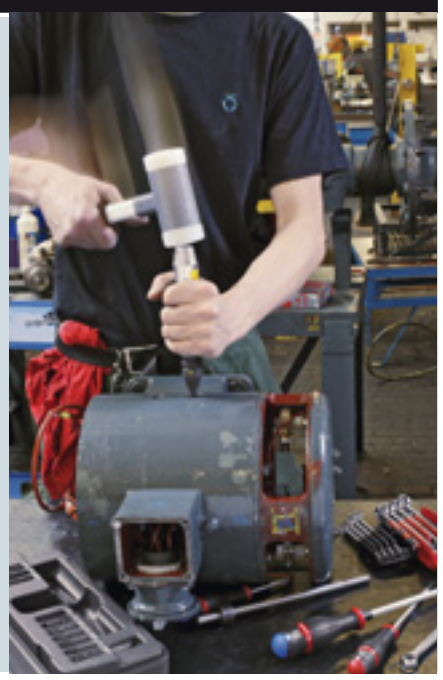
⚖ : 800 g.

Impact screwdrivers

Impact driver

FOR LOOSENING SEIZED, RUSTED OR STUCK FASTENERS QUICKLY AND IN COMPLETE SAFETY

- *Choose the correct bit for the screw head pattern and hit the driver with a mallet.*
- *Hitting the handle of the driver compresses a spring that fires the bit into rotation to loosen the screw. As there is no hard, repeated impact as is the case with impact wrenches , there is less risk of damage to the screw pattern.*
- *Also suitable for tightening.*



Safety first

- Do not use anything other than a dead-blow hammer to avoid damaging the driver (see section 10).
- Wear eye protection (See section 15).

3/8" series

Impact driver

NJ.260

- ☐ 3/8" (9.53 mm)
- Torque 200 N.m.
- Diameter 32 mm.
- Length 160 mm.
- Chrome finish.

⚖ : 795 g.

12-piece tool set

NJ.261M

- Comprising :

END no. 2-3.
ENP no. 2-3.
ENS 6.5-8-10 mm.
ENH 5-6-8 mm.
NJ.236A.
NJ.260.

- Comes in a plastic box BP.115.
- Tray PL.72A.

⚖ : 1.720 kg.

16-piece tool set

NJ.262

- Comprising :

END no. 2-3-4
ENP no. 2-3-4
ENS 6.5-8-10 mm
ENX no. 20-25-27-30-40
NJ.236A
NJ.260.

- Comes in a plastic box BP.115.
- Tray PL.73A

⚖ : 1.780 kg.

1/2" series

Impact driver

NS.260A

- ☐ 1/2" (12.7 mm)
- Torque 400 N.m.
- Diameter 32 mm.
- Length 165 mm.
- Chrome finish.

⚖ : 800 g.

13-piece tool set

NS.263M

- Comprising :

⊕ END no. 2-3-4
○ ENH 5-6-8-10 mm
◐ ENS 8-10-12-14 mm
NS.236A.
NS.260A.

- Comprises in a plastic box BP.115.
- Tray PL.49A.

⚖ : 1.780 kg.

Impact driver

NS.265M

- 21-piece tool set
- ☐ 1/2" (12.7 mm)
- Torque 400 Nm.
- Comprises in a plastic box BP.115.
- Tray PL.50A.
- Comprising :

⊕ END no. 2-3-4 Pozidriv® bits.
ENP no. 2-3-4 Phillips® bits.
◐ ENS n° 8-10-12-14 mm Straight bits.
○ ENH no. 5-6-8-10 mm Hexagon bits
✪ ENX no. 20-30-40-45-50 Torx® impact bits.
NS.236A Impact bit-holder.
NS.260A Impact driver

⚖ : 1.920 kg.

Impact driver module

MOD.NS260PB

- Comprising :

- NS.260A Driver.
- NS.236A Bit-holder ☐ 1/2" to 5/16".
- 15 impact bits :
- PH2 PH3 PH4 PZ2 PZ3.
- Hexagonal 6 to 10 mm.
- Torx® no. 20 to no. 55.

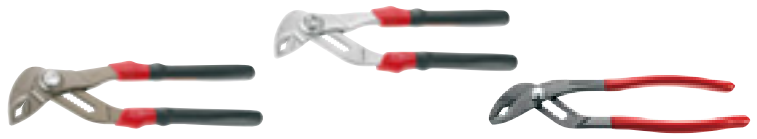
- Tray PL.380.

⚖ : 1.25 kg.

bar
ENT CIRCUIT
X CDM ALLER

8. Pliers

Multigrip pliers 372



Locking multigrip pliers 372
Standard multigrip pliers 374
Notch-joint multigrip pliers 375
Automatic multigrip pliers 376

Electrical engineers pliers 377

Cutting pliers 377
Flat nose pliers 377
Half-round nose pliers 377
Wire strippers 377

CPE series pliers 378

Diagonal cutters 379
End cutters 379
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Combination pliers 381
Flat nose pliers 383
Round nose pliers 383
Standard wire strippers 383

TE series pliers 384

Diagonal cutters 384
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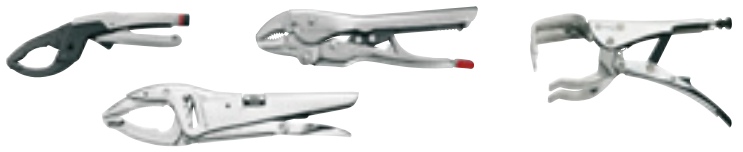
Snap ring pliers 398

Locking-wire pliers 399

Lock-grip pliers 400



Ergonomic and safe lock-grip pliers 400
Large-capacity lock-grip pliers 403
Automatic lock-grip pliers 404
Compact lock-grip pliers 405
Single setting lock-grip pliers 406
"Metalworking" lock-grip pliers 406
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End nippers 408

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Plastics cutters 409
Motorists pliers 410
Extra-long reach half-round nose pliers 410
Low-effort cutters 411
«Connector» pliers 411

Plier sets and modules 412

480 Bolt croppers

NEW

“New generation” Facom pliers

New process, better performance

Advantages

- Designed and manufactured in our own factory
- On numerically-controlled robotic production machines
- Machined after heat treatment

N 382

NEW

“High performance” nippers

Reduced cutting effort

Advantages

- Clean cut
- Maximum cutting power
- Optimum accessibility

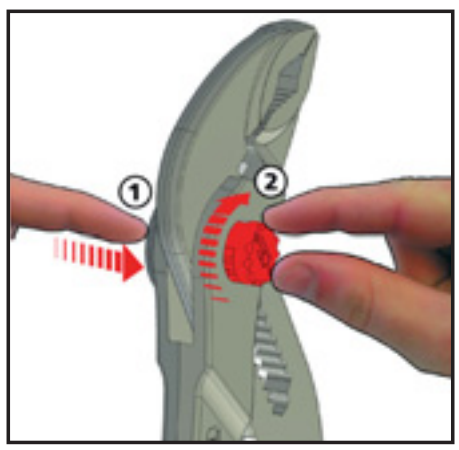
N 408

NEW

New pivot pin
Improved performance

Advantages

- Equal comfort for large hands or small.
- Double the number of positions.
- Operator safety



N 373

Engineers multigrip pliers

Locking multigrip pliers

New

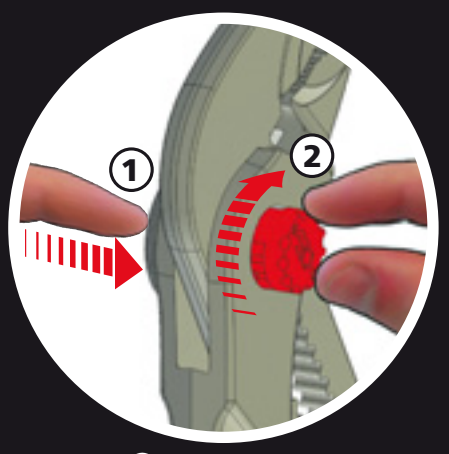
181 Locking twin slip-joint multigrip pliers

Example for 181.25 pliers

Handle travel adjusts to suit your hand !

INNOVATION FACOM

NEW PIVOT PIN
NEW PERFORMANCE !



❷ = 1/2 tour

Equal comfort for large hands and small.

- *The pivot pin allows you to adjust handle travel to suit the size of your hand.*

More force, less fatigue !

Double the number of positions.

- *Twice the number of positions, for more accurate adjustment.*

Optimum grip on the workpiece !

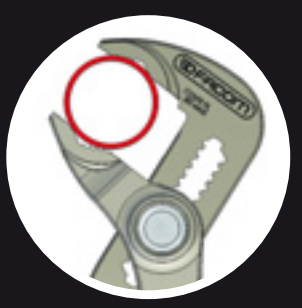
Quick, permanent push-button adjustment.

Operator safety

- *Gap reduced for increased torsional strength,*

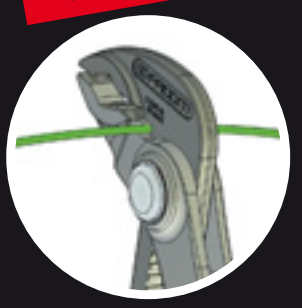
Guaranteed strength and grip !

New !



Teeth self-gripping on pipes.

Designed to grip nuts without damage.



Integral wire-cutter.

Possible number of positions :

180 mm model : 10 notches = 20 positions / 250 mm : 12 notches = 24 positions / 300 mm : 14 notches = 28 positions.

SLIP-JOINT MULTIGRIP PLIERS

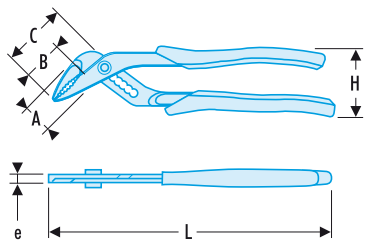
SELF-TIGHTENING PLIERS

- *Teeth self-gripping on pipes.*
- *Tightens and loosens nuts without damage.*
- *Capacity : 46 mm.*
- *Safe : finger protection.*
- *Riveted pivot.*

181 Locking twin slip-joint multigrip pliers

▷ ISO 8976, DIN ISO 8976, NF ISO 8976.
• Fast, precise push-button adjustment with safety lock.
• Reduced gap :
- Reduced play.
- high torsional strength.
• 62 HRc high-frequency treated jaws.
• Finger protection.
- 181.CPE : Chrome finish, ergonomic grips.
- 181.TE : Varnish finish, ergonomic grips.
- 181.G : Varnish finish, PVC grips.

	L mm	Tube capacity Ø mm	Hex capacity mm	A mm	B mm	C mm	D mm	E mm	⚖ g
181.18CPE	185	36	36	24	24	48	22	7,5	270
181.25CPE	250	42	41	33,8	28	55	22	7,5	400
181.18TE	185	36	36	24	24	48	22	7,5	270
181.25TE	250	42	41	33,8	28	55	22	7,5	400
181.18G	180	36	36	24	24	48	14,5	7,5	250
181.25G	245	42	41	33,8	28	55	14,5	7,5	370
181.30G	304	49	46	40,6	33	79	16,3	9	740



Standard multigrip pliers

170A

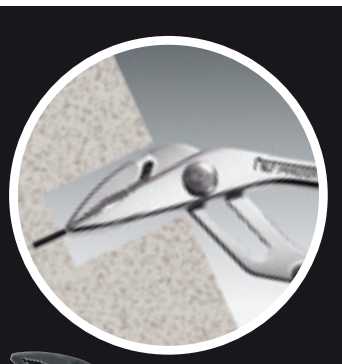
▷ ISO 8976, DIN ISO 8976, NF ISO 8976.
• PVC sheathed spatula handle for user comfort.
⚖ : 310 g.

Engineers multigrip pliers

Standard multigrip pliers

180

SLIP-JOINT MULTIGRIP PLIERS - RIVETED PIVOT PIN



IDEAL FOR CONFINED SPACES !

- *Long slim nose for improved reach in confined spaces.*
- *7 positions.*
- *Capacity (parallel jaws): 44 mm.*

Safe

- *Finger clearance.*
- *Insulated VE model for working on or near live components up to 1,000V AC.*
- *To européan standard* ***EN 60900.***

180 High-performance multigrip pliers

▷ ISO 8976, DIN ISO 8976, NF ISO 8976.

• Double heat-treated tips; High wear resistance, hardness 60/62 HRC.

• 4 options :

- 180.CPE : Chrome finish, ergonomic grips.
- 180.TE : Varnish finish, ergonomic grips.
- 180 : chrome finish.
- 180 VE : Varnish finish, 1,000V insulated grips designed for electrical safety to EN 60900 and, for working on or near live components.

180.CPE

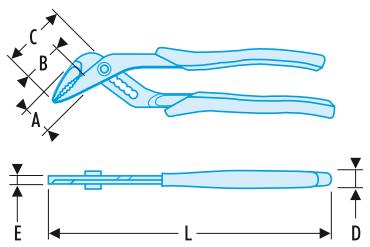
180.TE

180

180.VE

	A mm	B mm	C mm	D mm	E mm	L mm	⚖ g
180.CPE	30	35	58	22	8	250	360
180.TE	30	35	58	22	8	250	360
180	30	35	58	14	8	250	320
180.VE	30	35	58	22	8	250	360

	Description
180A.SE	Spare pivot pin

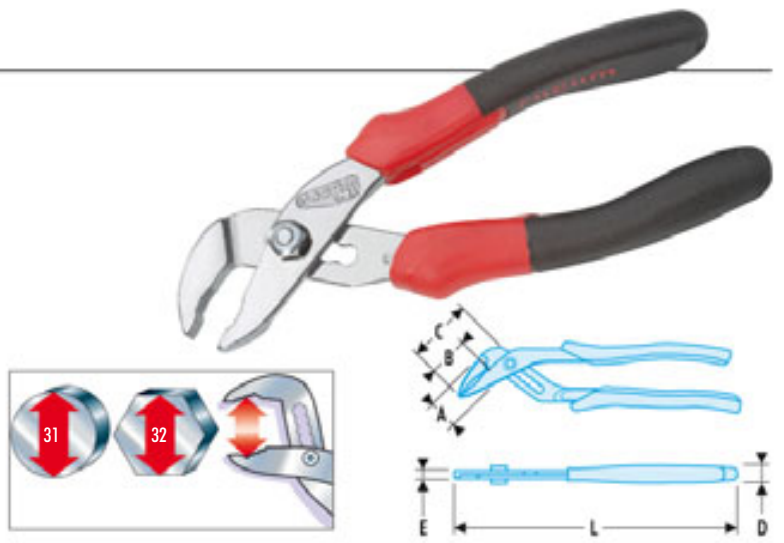


Engineers multigrip pliers

176A "Junior" pliers

176A.CPY : Polished chrome finish, comfortable grips.

	A mm	B mm	C mm	e mm	H mm	L mm	⚖ g
176A.CPY	23,5	23	40	5.6	45	165	160

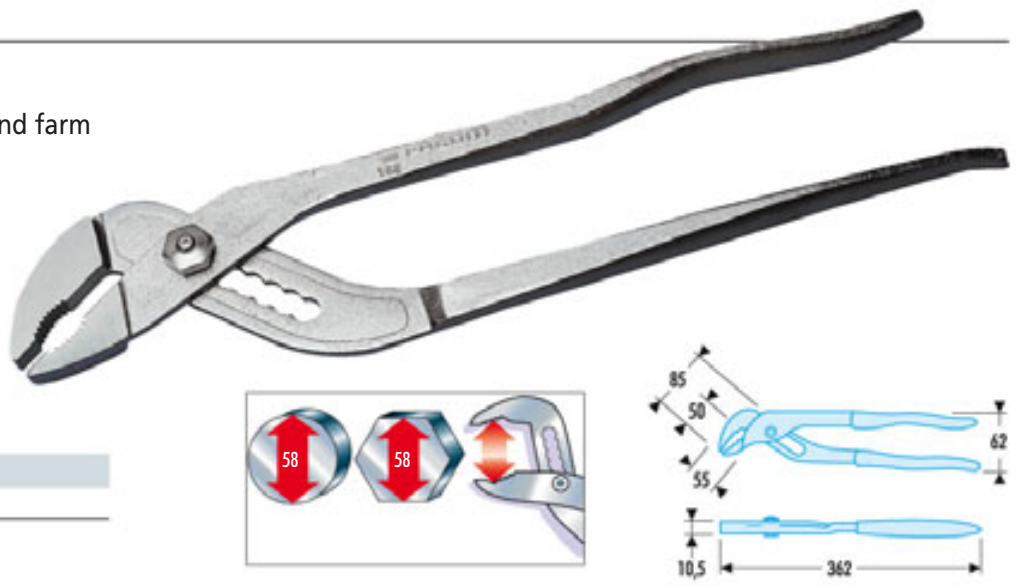


"Mammoth" pliers

182A.CP

- Powerful, two-handed use ideal for heavy engineering and farm machinery.
- Forged and hardened to 48 HRc.
- Thick-gauge jaws withstand torsion.
- 7 settings.
- Chrome finish, polished tips.
- Capacity 58 mm.

⚖ : 810 g.



	Description
182.SE	Spare pivot pin

Twin slip-joint multigrip pliers

484 Twin slip-joint multigrip pliers

▷ ISO 8976, DIN ISO 8976, NF ISO 8976.

- Inter-slotted jaws distribute load either side of central pin, in two heavy-gauge slots, for optimum safety and durability.
- 7 settings.
- Satin finish.

484A : capacity 34 mm.

484A.30, capacity 43 mm.

	e mm	A mm	B mm	C mm	H mm	L mm	⚖ g
484A	7,0	33	38	60	50	240	345
484A.30	9,5	38	40	66	52	300	560

Notch-joint multigrip pliers

Notch-joint multigrip pliers

480.ECG

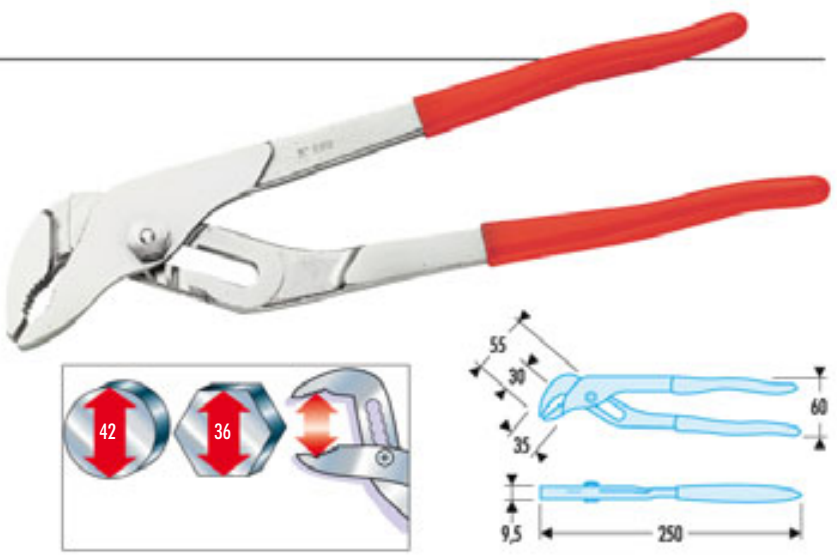
▷ ISO 8976, DIN ISO 8976, NF ISO 8976.

- Undercut arcs :

- Positive engagement of notches provides high power.
- Pivot pin is not load bearing.
- Smooth adjustment.

- 5 settings.
- Chrome finish, red PVC grips.

⚖ : 320 g.



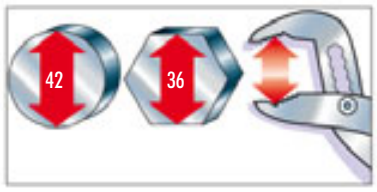
Engineers multigrip pliers

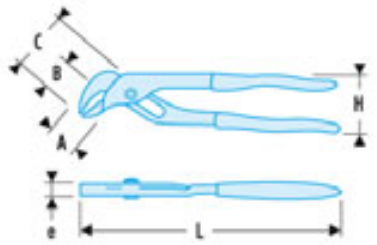
482 Notch-joint multigrip pliers

▷ ISO 8976, DIN ISO 8976, NF ISO 8976.
• Undercut arcs :
- Positive engagement of notches provides high power.
- Pivot pin is not load bearing.
• Self-gripping teeth.
• 5 settings.
• Presentation :
- CPE model : Chrome finish, ergonomic grips.
- EG model : Burnished finish, red PVC grips.

	e mm	A mm	B mm	C mm	H mm	L mm	⚖ g
482.CPE	9,5	35	30	55	60	255	365
482.EG	9,5	35	30	55	60	255	320

482.EG

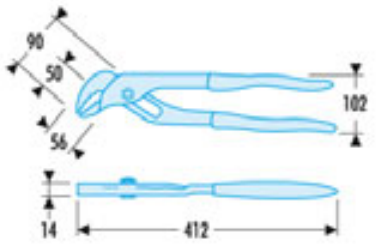




"Extra-wide capacity" straight-jaw pliers

481.40

• 11 positions.
• Notch joint.
• Straight serrated jaw.
• Chrome finish, PVC grips.
• Capacity : 105 mm.
⚖ : 1.1 kg.

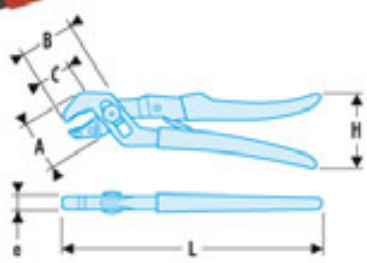


Automatic multigrip pliers

485 Automatic multigrip pliers

• Burnished finish. PVC grips.
485.17 : Capacity ∅ 28 mm, ⬡ 23 mm.
485.23 : Capacity ∅ 45 mm, ⬡ 38 mm.

	e mm	A mm	B mm	C mm	H mm	L mm	⚖ g
485.17	7	28	23	42	42	170	150
485.23	10	40	30	57	70	230	380



Self-adjusting multigrip pliers

FAST ADJUSTMENT

Instant automatic setting with one hand while clamping.

Electrical engineers pliers

Precision cutters

3 TYPES OF CUT :

AXIAL
Hard cutting edges for all materials.

SEMI-FLUSH
Clean cut in semi-hard materials.

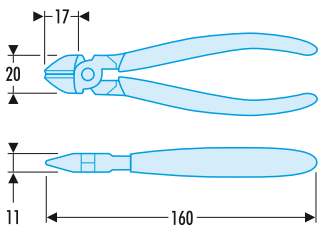
FLUSH
Smooth burr-free finish.

Cutting pliers

"Compact" diagonal cutters

405.15

▷ ISO 5749, DIN ISO 5749, NF ISO 5749.
• Capacity :
- hard wire 160 kg/mm² : ∅ 1.6 mm
- semi-hard wire 100 kg/mm² : ∅ 1.8 mm.
• Varnished finish, red PVC grips.
⚖ : 195 g.



Diagonal cutters

▷ ISO 9654, DIN ISO 9654, NF ISO 9654.
• 405 : Axial cut.
• 416 - 435 : Semi-flush cut, slim nose.
• 425 : Flush cut, nose extended 13 mm.
• Matt burnished finish, red grips - opening spring.

405

425

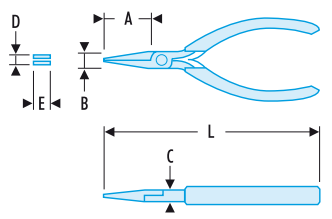
435

	Ø max mm Cu-Ni	FE 100 Kg/mm²	A mm	B mm	C mm	L mm	⚖ g
405.12	2,0	1,0	16,0	16,0	8	120	95
405.10	1,4	0,8	11,5	10,5	7	110	60
435	1,3	0,7	13,0	10,5	7	110	60
416	1,0	0,5	11,5	10,5	7	110	60
425	1,2	/	13,0	10,5	7	110	60

Flat nose pliers

401 - 421 Flat nose pliers

▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
• Smooth jaws with contoured inside edges to protect components.
• Matt burnished finish, red grips.



	A mm	B mm	C mm	D mm	E mm	L mm	⚖ g
401	48	14	8	1	5	160	80
421	33	11	7	1	5	130	70

Half-round nose pliers

Half-round nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• 402 : Short smooth jaws.
• 442 : short serrated jaws with side wire-cutter (2 mm dia. copper, 1 mm dia. steel 100 Kg/mm²).
• 403 : Short jaws, angled 40°.
• Matt burnished finish, red grips - opening spring.

403

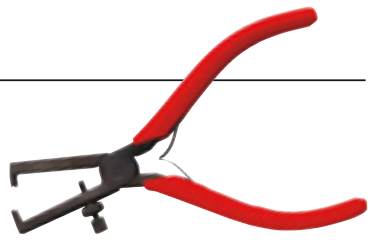
402

	A mm	B mm	C mm	D mm	L mm	⚖ g
402	48	14	8	1,5	160	76
442	42	14	8	3,8	150	88
403	45	14	8	1,2	155	75

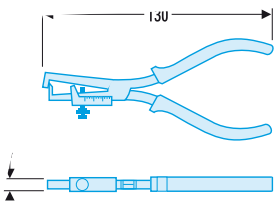
Wire strippers

Fine wire strippers

194.12



• Max. AWG 14.
• For light-gauge wire.
• Narrow blades.
• Cutting depth presetting.
• Burnished finish, PVC grips.
• ∅ 1.5 mm single and multi-core wire.
• Cross section 1.8 mm².
⚖ : 70 g.



Facom cutting pliers

PERFORMANCE !

Facom's cutting pliers are designed to meet the 3 main requirements of professional users.

1- One tool for cutting all materials

- *FACOM's universal cutters can cut cleanly through all types of materials: copper wire, semi-hard wire, hard wire, piano wire, steel strip, nylon strip, binding wire, bronze wire, Ertalon, etc....*

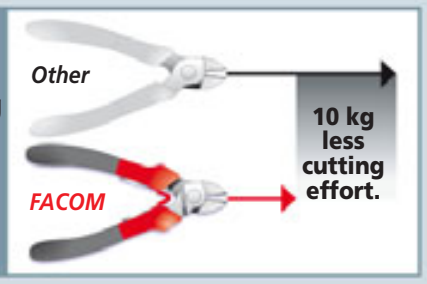
2- A reduced cutting effort

Facom cutting pliers reduce the cutting effort by 20% :

- *Optimised cutting-edge geometry - Long lever arm - Pivot pin offset as close as possible to the cutting edges.*

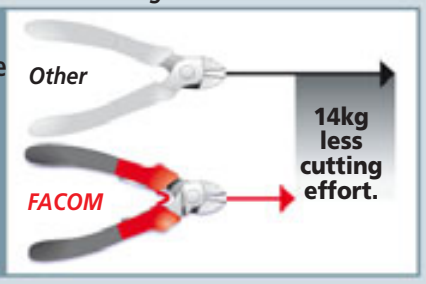
For cutting: 4 mm screws

FACOM cutters require 10 kg less cutting effort on the part of the user.



For cutting: Piano wire 200 kg/mm²

FACOM cutters require 14 kg less cutting effort on the part of the user.



3- Durable cutting power

Very high resistance to wear when used to cut hard wire or subject to intensive use.

- *FACOM cutters are made of high strength steel for maximum durability.*

The cutting edges are double heat treated.

❶ *Very hard cutting edges: 61/63 HRc.*

❷ *CHROME-MOLYBDENUM-VANADIUM steel.*

Cutting capacity

(Max. diameter of wires in "mm" –Tensile strength in "kg/mm²")

200 kg/mm² Piano wire		160 kg/mm² Hard wire		80 kg/mm² Semi-hard wire	
	Ø max		Ø max		Ø max
192	: 2.0 mm	391	: 1.6 mm	405	: 1.0 mm
190	: 2.0 mm	193	: 1.6 mm	436	: 0.7 mm
187	: 2.0 mm	185	: 1.6 mm	416	: 0.5 mm
171	: 2.5 mm	195	: 1.6 mm		
191A	: 2.5 mm	183	: 1.6 mm		
405.12	: 0.8 mm	491	: 3.6 mm		

Copper *(electrical fitters cutters)*

	Ø max		Ø max		Ø max
391	: 3.5 mm	435	: 1.3 mm	425	: 1.2 mm
405	: 2.0 mm	416	: 1.0 mm		

Plastic

395	396	

Four levels of finish

- *CPE series chromed*
- *TE series varnished*
- *VE-VSE series 1000 Volts insultated*
- *G series PVC-coated*

Série CPE Chrome-finished pliers

Return spring

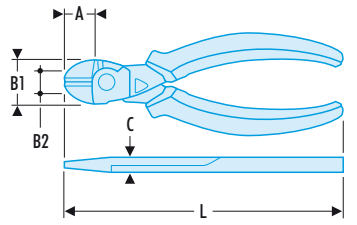
Résistance

High-performance materials chosen for their resistance to workshop chemicals (skydrol, chlorotene, acetone, petrol, etc...).

Diagonal cutters

192.CPE High-performance diagonal cutters

▷ ISO 5749, DIN ISO 5749, NF ISO 5749.
• Cutting edges designed to cleanly cut all types of wire : Piano wire, soft wire and modern materials
• Long lever arm, offset pivot for minimum cutting effort.
• High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.

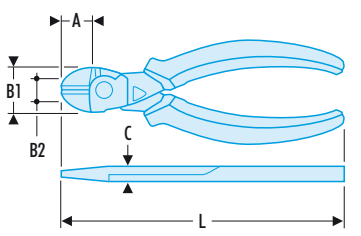


	Ø max mm 200 kg/mm²	⋐Ø mm Cu	A mm	B mm	C mm	L mm	⧋ g
192.14CPE	1,5	0,7 - 3,0	15,5	21,5	9,5	145	160
192.16CPE	2,0	0,7 - 4,0	18	24	10	160	200
192.18CPE	2,2	0,7 - 4,5	20	26	11	180	260
192.20CPE	2,5	0,7 - 5,0	22	28	11,5	200	320

Electricians diagonal cutters

391.16CPE

▷ ISO 5749, DIN ISO 5749, NF ISO 5749.
• Snipe nose for confined spaces (electrical cabinets, wiring).
• Semi-flush cutting edges, designed to cleanly cut through all types of wire : Hard wires (max. 160 kg/mm²), thin copper wires, modern materials
• Long lever arm, offset pivot for minimum cutting effort.
• High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.

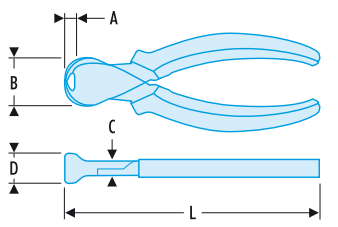


	⋐Ø mm 160 kg/mm²	Cu	B mm	A mm	C mm	L mm	⧋ g
391.16CPE	1,6	0,7 - 3,5	19	21	9	165	190

End cutters

190.CPE High-performance end cutters

▷ ISO 5748, DIN ISO 5748, NF ISO 5748.
• Cutting edge designed to cleanly cut piano wire, hard and soft wire.
• Long lever arm, offset pivot for minimum cutting effort.
• High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.



	Ø max mm 200 kg/mm²	A mm	B mm	C mm	D mm	L mm	⧋ g
190.16CPE	1,6	6,5	28	11,5	23	160	200
190.20CPE	2	7,5	31	13,5	29	200	340

CPE series pliers

Facom half-round nose pliers

A COMPREHENSIVE RANGE TO SUIT EVERY NEED

High-performance.

Facom's half-round nose pliers are precision made -machined on numerically-controlled robotic production machinery. For gripping and manipulating all types of components or wires, even in difficult-to-reach places. Perfectly finished, with no sharp edges.

Straight and 40° angled short-nose pliers.

- *Narrow, finely serrated tips (0.5mm pitch), with a side wire-cutter.*

Straight and 40° angled long-nose pliers.

- *Reinforced, serrated tips (0.8mm pitch), with a tube grip and side wire-cutter. For mechanics, industrial maintenance, automotive trades, etc. Finishes CPE and TE.*
- *Narrow, finely serrated tips (0.5mm pitch), with a side wire-cutter. For electricians, electrical fitters, delicate tasks. Finishes G and VE (1,000 V insulated - EN60900).*

Guaranteed cutting accuracy and consistency.

- *For cleanly cutting thin copper wire and modern materials, hard wires (max. 1.6mm diameter at 160 kg/mm2).*

- *Industrial, automotive applications, etc...*

- *Electrical, electromechanical applications, etc...*

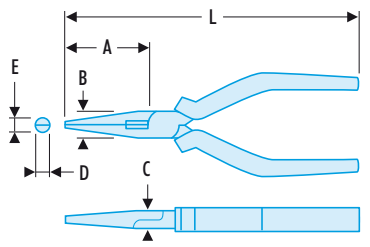
Half-round nose pliers

185-195.CPE Long half-round nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• Narrow, finely serrated tips with a pipe-grip.
• Side cutter for copper and hard steel wire (max 160 kg/mm²).
185 : Straight nose.
195 : 40° angled nose.

195.CPE

185.CPE

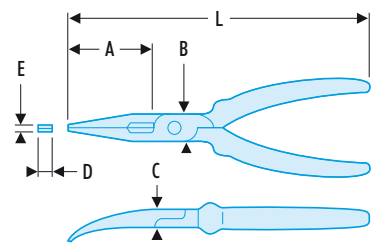


	Ø max mm Cu	Ø maxi mm 160 kg/mm²	D x E mm	A mm	B mm	C mm	L mm	g
185.20CPE	0,7 - 3,5	1,6	2,9 x 3,6	75	18	9	200	192
195.20CPE	0,7 - 3,5	1,6	2,9 x 3,6	69	18	9	200	192

Half-round long snipe-nose pliers

183.20CPE

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• Narrow, finely serrated tips.
• Side cutter for copper and hard steel wire (max 160 kg/mm²).
• 40° angled nose.



	Ø max mm Cu	Ø maxi mm 160 kg/mm²	D x E mm	A mm	B mm	C mm	L mm	g
183.20CPE	0,7 - 3,5	1,6	2,5 x 3,0	69	18	9	200	185

193 - 195.CPE Short half-round nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• Narrow, finely serrated tips.
• Side cutter for copper and hard steel wire (max 160 kg/mm²).
193 : Straight nose.
195 : 40° angled nose.

193.CPE

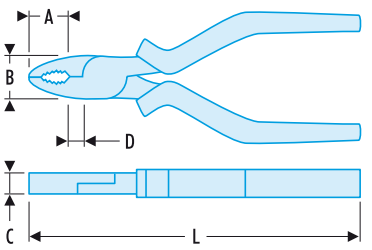
195.CPE

	Ø mm Cu	Ø mm 160 kg/mm²	D x E mm	A mm	B mm	C mm	L mm	g
193.16CPE	0,7 - 3,0	1,6	2,5 x 3,0	50	17	9	160	177
195.16CPE	0,7 - 3,0	1,6	2,5 x 3,0	50	17	9	160	177

Combination pliers

187.CPE Combination pliers

▷ ISO 5746, DIN ISO 5746, NF ISO 5746.
• Cutting edges designed to cut all types of wire : Piano wire, soft wire and modern materials.
• Long lever arm, offset pivot for minimum cutting effort.
• High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.



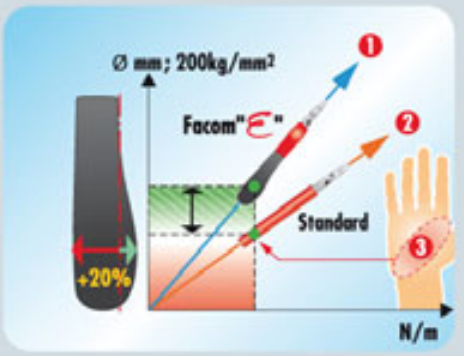
	Ø max mm Fe wire 200 kg/mm²	A mm	B mm	C mm	D mm	L mm	g
187.16CPE	1,6	34	21	9,5	12	165	195
187.18CPE	1,8	36	23	10	13	185	225
187.20CPE	2	42	26	11,5	15	205	300

CPE series pliers

Series "E" pliers

ERGONOMIC

Non-slip spatula-shaped pressure area



- *The ergonomic features of series "E" pliers represent the culmination of an intensive programme of testing and analysis of tools in service, with additional support from specialist ergonomics laboratories.*
- *Extended contact area and asymmetric profile fit naturally in the hand. Reduced risk of repetitive strain injury, inflammation and fatigue, especially in intensive use.*

Guard

- *Firm, comfortable grip for pushing or pulling pressure.*

Spring

- *Comfort and precision.*
  The spring wedges the handles snugly between fingers and palm.

Three levels of finish

CPE series chromed

TE series varnished

VE series 1,000 V insulated

Highly resistant materials

- *Materials used for handles are chosen for their resistance to workshop chemicals (Skydrol, chlorothene, acetone, petrol, etc.).*
  Spring tested to over one million cycles.

Safety

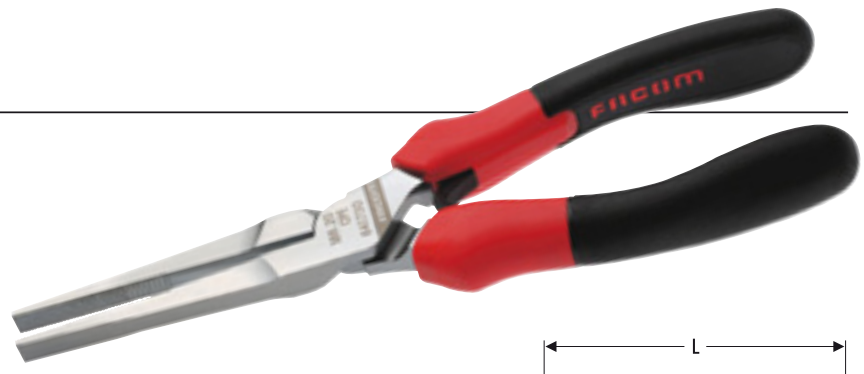
Facom 1,000 V insulated safety pliers meet the requirements of European standard ***EN 60900***

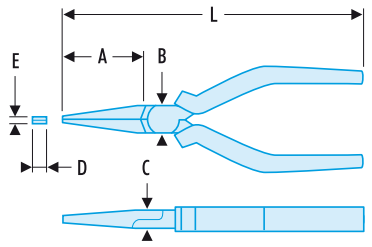
See the "VE" series range of 1,000 V insulated tools, p. 368

Flat nose pliers

188.CPE Flat nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• Serrated jaws for a firm grip.
188.E : Snipe nose version for confined spaces.





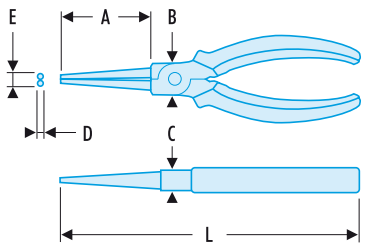
	A mm	B mm	C mm	D x E mm	L mm	g
188.16CPE	46	18	9	6,5 x 4,0	168	140
188.20CPE	75	18	9	6,5 x 4,0	200	200
188E.16CPE	46	18	9	3,5 x 2,5	168	130

Round-nose pliers

Round nose pliers

189.17CPE

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• For shaping loops, bends or rings.
• Finely serrated jaws for positive grip.
• Ø at end of each tip : 2 mm.



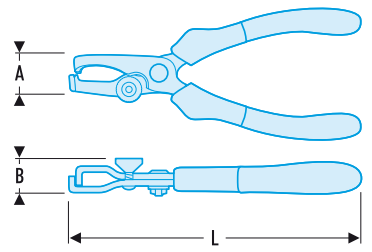
	A mm	B mm	D x E mm	C mm	L mm	g
189.17CPE	41	18	2 x 4	9	170	135

Standard wire strippers

Wire stripper

189.17CPE

194.17: Standard forged pliers.
• For single and multi-core wires 0.5 to 6 mm².
- Knurled adjustment screw with locknut.
- Metal return spring



	mm²	A mm	B mm	L mm	g
194.17CPE	0,5 - 6	17	8.5	170	185

TE series pliers

Diagonal cutters

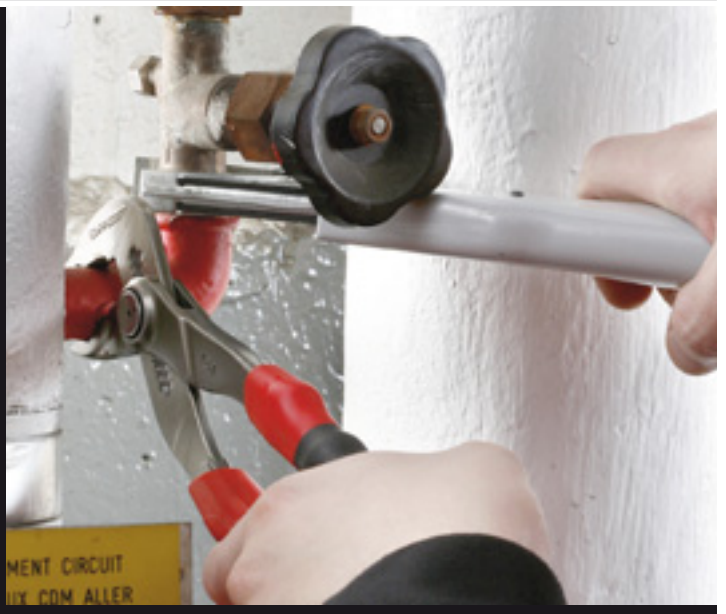
8E Varnished, polished pliers

Ergonomic !

- ***Spatula-shaped pressure area***
  20% more slip-resistant Maximum comfort. Reduced pressure on the hand.
  .

- ***Return spring***
  Comfort and precision. The spring naturally wedges the handles snugly between fingers and palm.

- ***Guard***
  Designed to provide a firm, comfortable grip for pushing or pulling pressure.



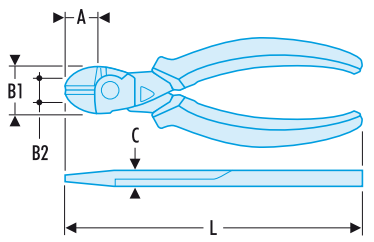
Resistant

Sleeves made of high-performance materials chosen for their resistance to chemicals High-performance materials chosen for their resistance to workshop chemicals (Skydrol, chlorothene, acetone, petrol, etc…).

192.TE High-performance diagonal cutters

▷ ISO 5749, DIN ISO 5749, NF ISO 5749.

- Cutting edges designed to cleanly cut all types of wire : Piano wire, soft wire and modern materials.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.



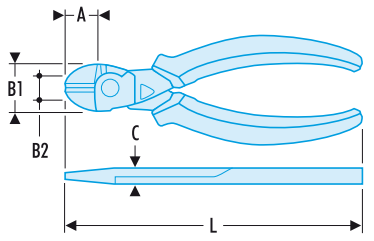
	Ø max mm 200 kg/mm²	⋐Ø mm Cu	A mm	B mm	C mm	L mm	⧋ g
192.14TE	1,5	0,7 - 3,0	15,5	21,5	9,5	145	160
192.16TE	2,0	0,7 - 4,0	18	24	10	160	200
192.18TE	2,2	0,7 - 4,5	20	26	11	180	260
192.20TE	2,5	0,7 - 5,0	22	28	11,5	200	320

Electricians diagonal cutters

391.16TE

▷ ISO 5749, DIN ISO 5749, NF ISO 5749.

- Snipe nose for confined spaces (electrical cabinets, wiring). Semi-flush cutting edges, designed to cleanly cut through all types of wire : Hard wires (max. 160 kg/mm²), thin copper wires, modern materials.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.



	⋐Ø mm 160 kg/mm²	Cu	B mm	A mm	C mm	L mm	⧋ g
391.16TE	1,6	0,7 - 3,5	19	21	9	165	190

Half-round nose pliers

185-195.TE Long half-round nose pliers

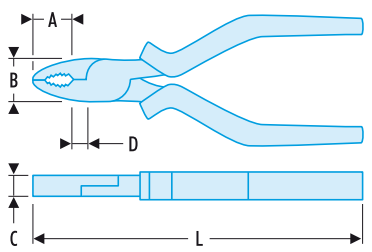
▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• Narrow, finely serrated tips with a pipe-grip.
• Side cutter for copper and steel wire (max 160 kg/mm²).
185 : Straight nose.
195 : 40° angled nose.

	Ø mm Cu	Ø mm 160 kg/mm²	D x E mm	A mm	B mm	C mm	L mm	g
185.20TE	0,7 - 3,5	1,6	2,9 x 3,6	75	18	9	200	192
195.20TE	0,7 - 3,5	1,6	2,9 x 3,6	69	18	9	200	192

Half-round nose pliers

187.TE Combination pliers

▷ ISO 5746, DIN ISO 5746, NF ISO 5746.
• Cutting edges designed to cut all types of wire : Piano wire, soft wire and modern materials.
• Long lever arm, offset pivot for minimum cutting effort.
• High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.



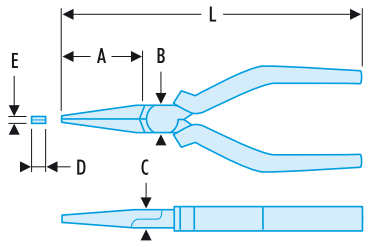
	Ø max mm Fe wire 200 kg/mm²	A mm	B mm	C mm	D mm	L mm	g
187.18TE	1,8	36	23	10,0	13	185	225
187.20TE	2,0	42	26	11,5	15	205	300

Flat nose pliers

Flat-nose pliers

188.16TE

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• Serrated jaws for a firm grip.

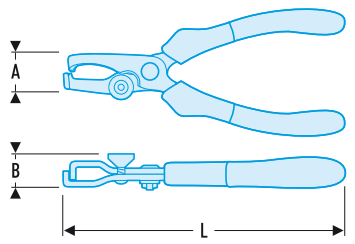


	A mm	B mm	D x E mm	C mm	L mm	g
188.16TE	46	18	6,5 x 4,0	9	168	140

Standard wire strippers

194.TE Wire stripper

194.17: Standard forged pliers.
• For single and multi-core wires 0.5 to 6 mm².
- Knurled adjustment screw with locknut.
- Metal return spring



	mm²	A mm	B mm	L mm	g
194.17TE	0,5 - 6	17	8.5	170	185

G series pliers

Diagonal cutters

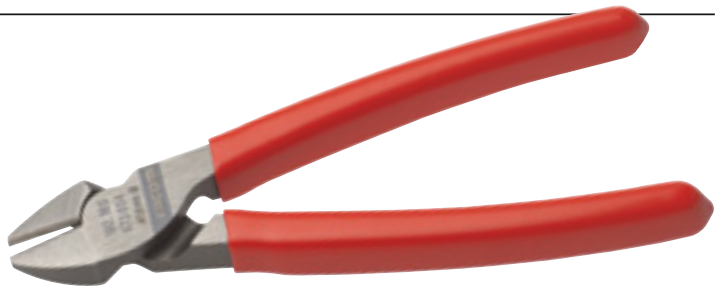
Série "G" Varnished, polished pliers

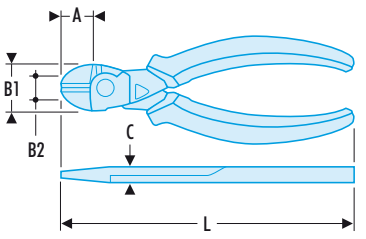
PVC GRIPS

- *Identical characteristics and specifications to series CPE and TE.*

192.G High-performance diagonal cutters

▷ ISO 5749, DIN ISO 5749, NF ISO 5749.
• Cutting edges designed to cleanly cut all types of wire : Piano wire, soft wire and modern materials.
• Long lever arm, offset pivot for minimum cutting effort.
• High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.



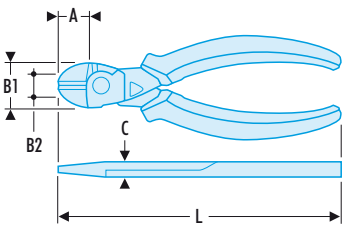


	Ø max mm 200 kg/mm²	Ø mm Cu	A mm	B mm	C mm	L mm	g
192.14G	1,5	0,7 - 3,0	15,5	21,5	9,5	145	130
192.16G	2,0	0,7 - 4,0	18	24	10	160	170
192.18G	2,2	0,7 - 4,5	20	26	11	180	230
192.20G	2,5	0,7 - 5,0	22	28	11,5	200	290

Electricians diagonal cutters

391.16G

▷ ISO 5749, DIN ISO 5749, NF ISO 5749.
• Snipe nose for confined spaces (electrical cabinets, wiring).
• Semi-flush cutting edges, designed to cleanly cut through all types of wire : Hard wires (max. 160 kg/mm²), thin copper wires, modern materials.
• Long lever arm, offset pivot for minimum cutting effort.
• High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.

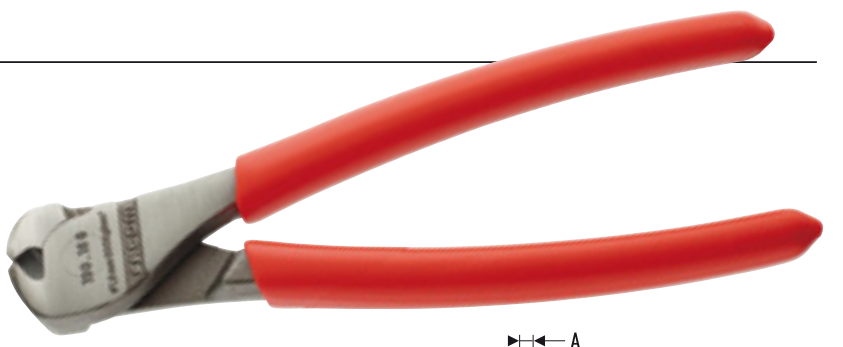


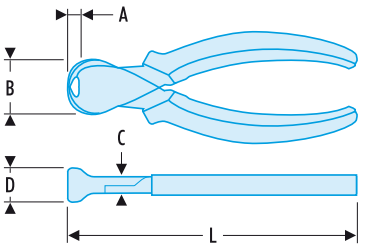
	Ø mm 160 kg/mm²	Ø mm Cu	A mm	B mm	C mm	L mm	g
391.16G	1,6	0,7 - 3,5	21	19	9	165	160

End cutters

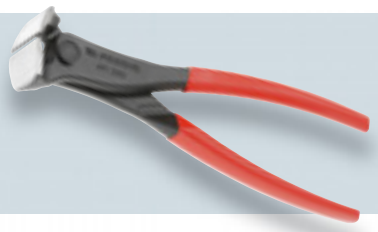
190.G High-performance end cutters

▷ ISO 5748, DIN ISO 5748, NF ISO 5748.
• Cutting edge designed to cleanly cut piano wire, hard and soft wire.
• Long lever arm, offset pivot for minimum cutting effort.
• High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.





	Ø max mm 200 kg/mm²	A mm	B mm	C mm	D mm	L mm	g
190.16G	1,6	6,5	28	11,5	23	160	170
190.20G	2,0	7,5	31	13,5	29	200	310



New end nippers.

See these products on p. 408

Half-round nose pliers

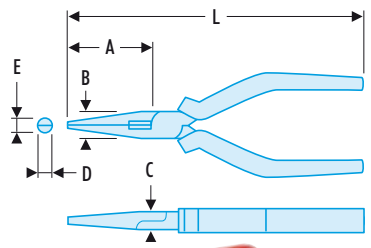
185 - 195.G Long half-round nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• Narrow, finely serrated tips with a pipe-grip.
• Side cutter for copper and hard steel wire (max 160 kg/mm²).
185 : Straight nose.
195 : 40° angled nose.

	Ø max mm Cu	Ø maxi mm 160 kg/mm²	D x E mm	A mm	B mm	C mm	L mm	g
185.20G	0,7 - 3,5	1,6	2,9 x 3,6	75	18	9	200	192
195.20G	0,7 - 3,5	1,6	2,9 x 3,6	69	18	9	200	192

185.G

195.G

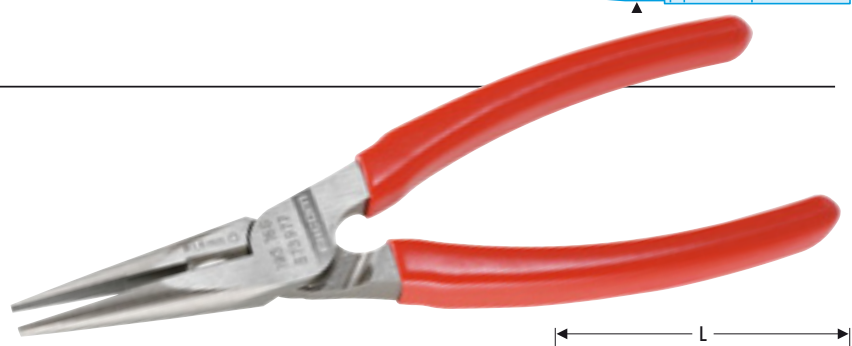


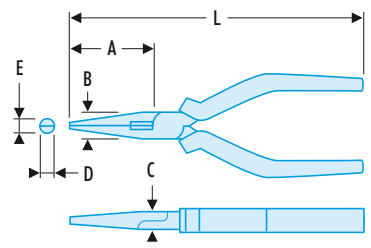
193 Short half-round nose pliers

193.16EG

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• Narrow, finely serrated tips.
• Side cutter for copper and hard steel wire (max 160 kg/mm²).
193 : Straight nose.
• (max 160 Kg/mm²).

	Ø mm Cu	160 kg/mm²	D x E mm	A mm	B mm	C mm	L mm	g
193.16G	0,7 - 3,0	1,6	2,5 x 3,0	50	17	9	160	177



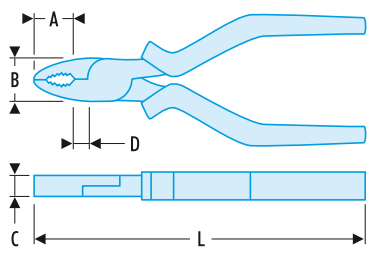


Combination pliers

187.G Combination pliers

▷ ISO 5746, DIN ISO 5746, NF ISO 5746.
• Cutting edges designed to cut all types of wire : Piano wire, soft wire and modern materials.
• Long lever arm, offset pivot for minimum cutting effort.
• High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.

	Ø max mm Fe wire 200 kg/mm²	A mm	B mm	C mm	D mm	L mm	g
187.16G	1,6	34	21	9,5	12	165	195
187.18G	1,8	36	23	10,0	13	185	225
187.20G	2,0	42	26	11,5	15	205	300

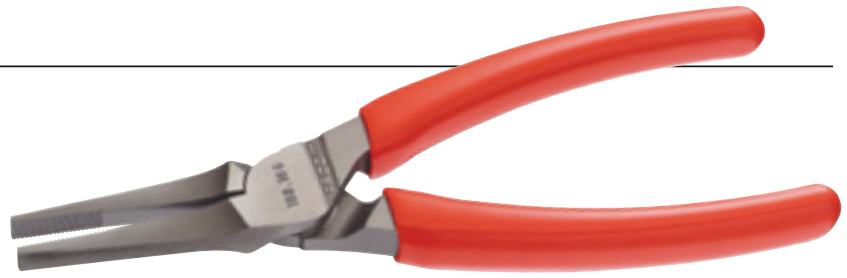


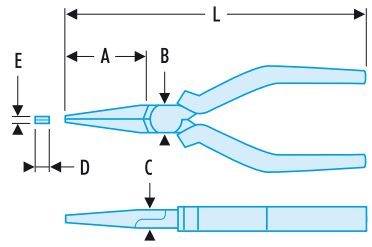
Flat nose pliers

188.G Flat nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• Serrated jaws for a firm grip.

	A mm	B mm	C mm	D x E mm	L mm	g
188.16G	46	18	9	6,5 x 4,0	168	140
188.20G	75	18	9	6,5 x 4,0	200	200





1,000 Volt VE series pliers

Diagonal cutters

"VE" series 1,000 Volt insulated pliers

1000 VOLTS EN 60900

Spatula-shaped pressure area, 20% more slip-resistant

Guard

- *Firm, comfortable grip for pushing or pulling pressure.*

Return spring for added

- *The elastomer spring closes off the metal parts of the tool and prevents the finger slipping towards the uninsulated area.*

.

Insulation tests *(to European standard **EN 60900**)*

1-*10000 V immersion test* ***2-****5000 V after penetration test*
3-*Adhesion test after heating to 70°C* ***4-****Impact test after chilling to -25°C*
5-*Flame propagation test*

Information

Certified electrical safety

- *Compliance with European standard **EN 60900***
- *For working on live components up to 1,000. volts AC.*
- *Each tool is individually electrically tested to 10,000 volts for 10 seconds.*
- *Our production site is accredited and certified to produce insulated tools.*

Safety

Prevent damage to insulation from :

- *Heat (-20 to +70°C working temperature)*
- *Chemicals.*
- *Cuts or perforations*

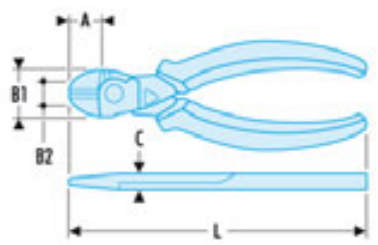
Visually check the insulation before use.

Wear glasses and gloves.

192.VE 1,000 Volt insulated high-performance diagonal cutters

▷ ISO 5749, DIN ISO 5749, NF ISO 5749.
• Cutting edges designed to cleanly cut all types of wire : Piano wire, soft wire and modern materials, etc.
• Long lever arm, offset pivot for minimum cutting effort.
• High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
VDE tested.

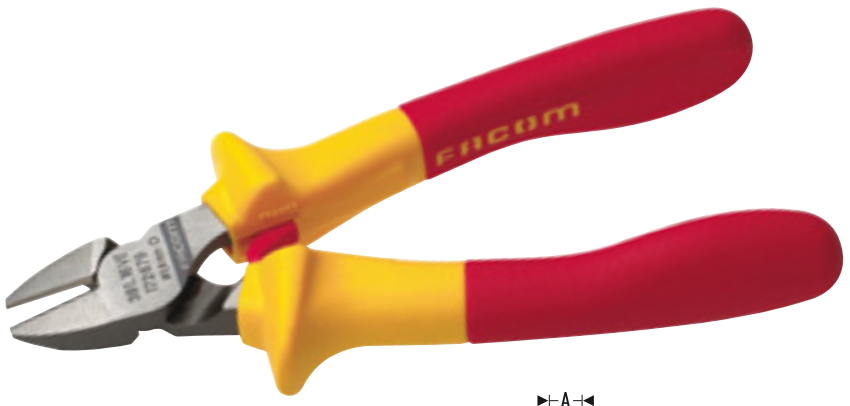
	Ø max mm 200 kg/mm²	Ø mm Cu	A mm	B mm	C mm	L mm	g
192.14VE	1,5	0,7 - 3,0	15,5	21,5	9,5	145	160
192.16VE	2,0	0,7 - 4,0	18	24	10	160	200
192.18VE	2,2	0,7 - 4,5	20	26	11	180	260

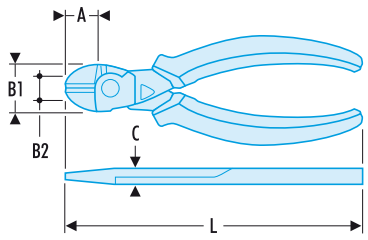


1,000 Volt insulated electricians diagonal cutters

391.16VE

▷ ISO 5749, DIN ISO 5749, NF ISO 5749.
• Snipe nose for confined spaces (electrical cabinets, wiring). Semi-flush cutting edges, designed to cleanly cut through all types of wire : Hard wires (max. 160 kg/mm²), thin copper wires, modern materials.
• Long lever arm, offset pivot for minimum cutting effort.
• High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
VDE tested.





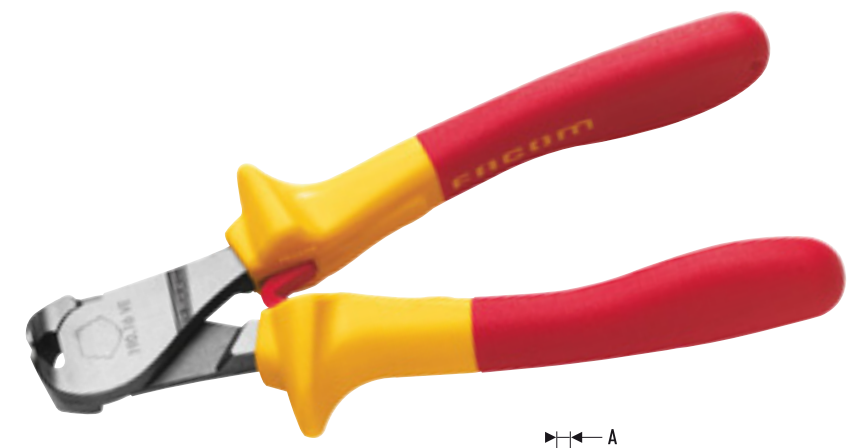
	Ø mm		B	A	C	L	
	160 kg/mm²	Cu	mm	mm	mm	mm	g
391.16VE	1,6	0,7 - 3,5	19	21	9	165	190

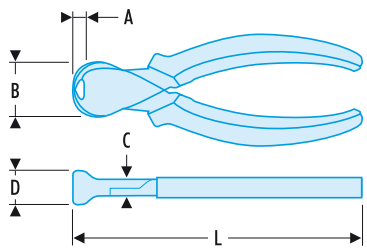
End cutters

1,000 Volt insulated high-performance end cutters

190.16VE

▷ ISO 5748 - DIN ISO 5748, NF ISO 5748.
- Cutting edge designed to cleanly cut piano wire, hard and soft wire.
- Long lever arm, offset pivot for minimum cutting effort.
- High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
VDE tested.





	Ø max mm	A	B	C	D	L	
	200 kg/mm²	mm	mm	mm	mm	mm	g
190.16VE	1,6	6,5	28	11,5	23	160	200

Half-round nose pliers

185 - 195.VE 1,000 Volt insulated long half-round nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• Narrow, finely serrated tips.
• Side cutter for copper and hard steel wire (max 160 kg/mm²).
185 : Straight nose.
195 : 40° angled nose.
VDE tested.

185.VE

195.VE

	Ø mm		D x E	A	B	C	L	
	Cu	160 kg/mm²	mm	mm	mm	mm	mm	g
185.20VE	0,7 - 3,5	1,6	2,9 x 3,6	75	18	9	200	192
195.20VE	0,7 - 3,5	1,6	2,9 x 3,6	69	18	9	200	192

1000 VOLTS EN 60900

1,000 Volt VE series pliers

193 - 195.VE 1,000 Volt insulated short half-round nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• Narrow, finely serrated tips.
• Side cutter for copper and hard steel wire (max 160 kg/mm²).
193 : Straight nose.
195 : 40° angled nose.
VDE tested.

	⋐Ø mm Cu	⋐Ø mm 160 kg/mm²	D x E mm	A mm	B mm	C mm	L mm	⚖ g
193.16VE	0,7 - 3,0	1,6	2,5 x 3,0	50	17	9	160	177
195.16VE	0,7 - 3,0	1,6	2,5 x 3,0	50	17	9	160	177

193.VE

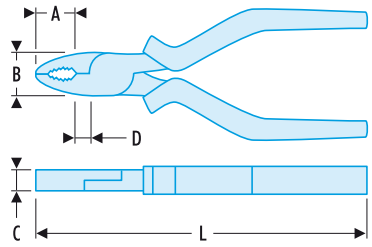
195.VE

Combination pliers

187.VE 1,000 Volt insulated combination pliers

▷ ISO 5746, NF ISO 5746.
• Cutting edges designed to cut all types of wire : Piano wire, soft wire and modern materials, etc.
• Long lever arm, offset pivot for minimum cutting effort.
• High durability Chrome-Molybdenum-Vanadium steel, very hard cutting edges 61/63 HRc.
VDE tested.

	Ø max mm Fe wire 200 kg/mm²	A mm	B mm	C mm	D mm	L mm	⚖ g
187.16VE	1,6	34	21	9,5	12	165	195
187.18VE	1,8	36	23	10,0	13	185	225

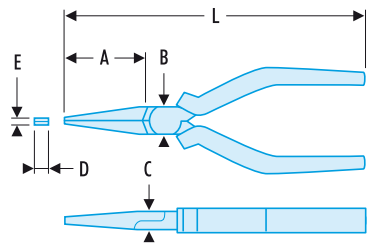


Flat nose pliers

188.VE 1,000 Volt insulated flat nose pliers

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
• Serrated jaws for a firm grip.
VDE tested.

	A mm	B mm	C mm	D x E mm	L mm	⚖ g
188.16VE	46	18	9	6,5 x 4,0	168	140
188.20VE	75	18	9	6,5 x 4,0	200	200



1000 VOLTS EN 60900

Round-nose pliers

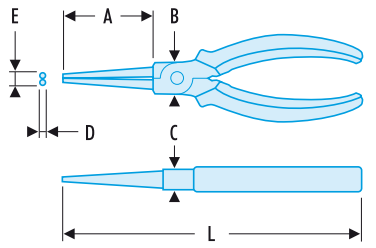
1,000 Volt insulated round-nose pliers

189.17VE

▷ ISO 5745, DIN ISO 5745, NF ISO 5745.
- For shaping loops, bends or rings.
- Finely serrated jaws for positive grip.
- ∅ at end of each tip : 2 mm.

VDE tested.

	A mm	B mm	C mm	D x E mm	L mm	g
189.17VE	41	18	9	2 x 4	170	135



Standard wire strippers

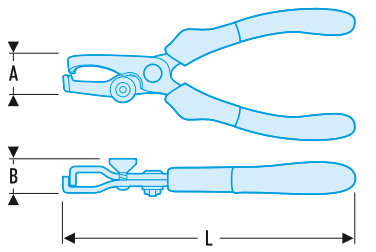
1,000 Volt insulated wire stripper

194.17VE

▷ EN 60900.
- For single and multi-core wires 0.5 to 6 mm².

194.17 : Standard forged pliers.
- Knurled adjustment screw with locknut.
- Metal return spring.

	mm²	A mm	B mm	L mm	g
194.17VE	0,5 - 6	17	8,5	170	185



Multigrip pliers 180.VE - Riveted pivot

1000 VOLTS EN 60900

For the 180 VE plier range, see p. 374

VSE insulated crimping pliers, wire strippers, etc.

See the electricity section, p. 622

Circlip® pliers

High-performance piano wire circlip® pliers

High-performance circlip® pliers

INCREASED POWER AND DURABILITY

High-strength calibrated piano wire tips

- *Invented by FACOM : reinforced piano wire* tips : 15 % stronger than the best on the market.*
- *Angled tips for better retention of circlips®.*

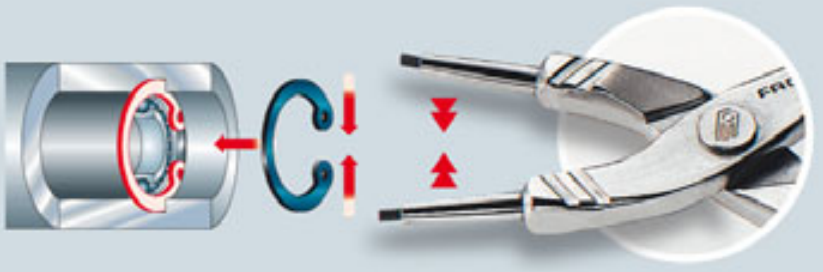
* *Except pliers E.9, standard tips.*
** *Except size 32.*

Inside circlip® pliers

- *Straight, 45° or 90° tip profiles.*
- *Chrome finish.*

Safety

Eye protection is recommended



179E Straight-tip "compression" pliers

▷ DIN 5256, NF E 73-130, ASME B 107.19.

- For inside circlips®.
- 179E.15 /19/24 : with reinforced tips.

	mm	mm Ø min - max	Length mm	g
179E.9	0,9	8 - 11	140	105
179E.13	1,3	12 - 25	140	105
179E.15	1,8	18 - 30	140	105
179E.18	1,8	18 - 60	185	175
179E.19	2,3	31 - 60	180	175
179E.23	2,3	31 - 100	215	260
179E.24	2,8	65 - 100	215	260
179E.32	3,2	85 - 200	310	395

169E 45°-tip "compression" pliers

▷ NF E 73-130, ASME B.107.19.

• For inside circlips®.

	mm	mm Ø min - max	Length mm	g
169E.9	0,9	8 - 11	140	110
169E.13	1,3	12 - 25	140	110
169E.18	1,8	18 - 60	180	150
169E.23	2,3	31 - 100	215	210

199E 90°-tip "compression" pliers

▷ DIN 5256, NF E 73-130, ASME B 107.19.

• For inside circlips®.

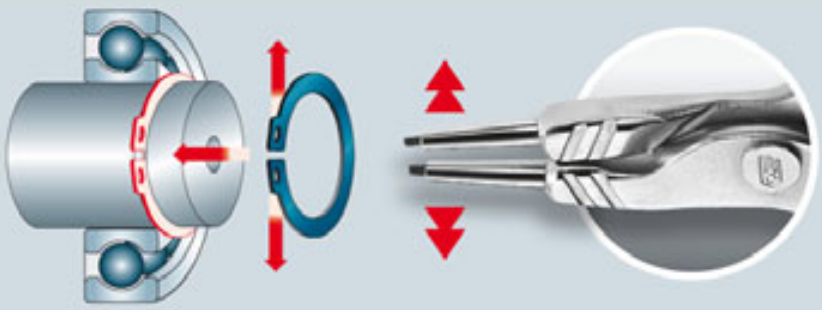
• 199E.15 : with reinforced tips.

	mm	mm Ø min - max	Length mm	g
199E.9	0,9	8 - 11	130	105
199E.13	1,3	12 - 25	130	105
199E.15	1,8	18 - 30	130	105
199E.18	1,8	18 - 60	170	175
199E.23	2,3	31 - 100	205	260
199E.32	3,2	85 - 200	290	395

Outside circlip® pliers

• *Straight, 45° or 90° tip profiles.*

• *Chrome finish.*



Safety

Eye protection is recommended

177E Straight-tip "expansion" pliers

▷ DIN 5254, NF E 73-130, ASME B 107.19.

• For outside circlips®.

• 177E.15/19/24 : with reinforced tips.

	mm	mm Ø min - max	Length mm	g
177E.9	0,9	3 - 10	150	105
177E.13	1,3	10 - 25	150	105
177E.15	1,8	18 - 30	150	105
177E.18	1,8	18 - 60	180	175
177E.19	2,3	32 - 63	190	120
177E.23	2,3	32 - 100	215	260
177E.24	2,8	65 - 100	215	200
177E.32	3,2	85 - 200	310	395

167E 45°-tip "expansion" pliers

▷ NF E 73-130, ASME B 107.19.

• For outside circlips®.

	mm	mm Ø min - max	Length mm	g
167E.9	0,9	3 - 10	145	105
167E.13	1,3	10 - 25	145	105
167E.18	1,8	18 - 60	175	175
167E.23	2,3	32 - 100	215	260

Circlip® pliers

197E 90°-tip "expansion" pliers

▷ DIN 5254, NF E 73-130, ASME B 107.19.

• For outside circlips®.

	mm	mm Ø min - max	Length mm	g
197E.9	0,9	3 - 10	140	105
197E.13	1,3	10 - 25	140	105
197E.18	1,8	18 - 60	170	175
197E.23	2,3	32 - 100	200	260
197E.32	3,2	85 - 200	290	395

4-piece circlip® plier module

MOD.PC1PB

• Comprising :

- Inside circlip® pliers 177E.18 (straight tip) ,and 197E.18 (90° tip).
- Inside circlip® pliers 179E.18 straight tip ,and 199E.18 (90° tip).

• Tray PL.332.

: 930 g.

Machined-nose pliers

Machined-nose pliers

• *Inverted cone tips for secure retention of circlips®.*

• *Special heat-treated steel inserts for optimum strength.*

• *Spring-assisted opening.*

• *Varnished finish, PVC sheathing.*

Inside circlip® pliers

• *Straight, 45° or 90° tip profiles.*

• *Varnished finish, PVC sheathing.*

Safety

Eye protection is recommended

179G Straight-tip "compression" pliers

▷ DIN 5256, NF E 73-130, ASME B 107.19.

• For inside circlips.® .

	mm	mm Ø min - max	Length mm	g
179G.9	0,9	8 - 11	140	120
179G.13	1,3	12 - 25	145	120
179G.18	1,8	18 - 60	185	190
179G.23	2,3	31 - 100	215	275

169G 45°-tip "compression" pliers

▷ NF E 73-130, ASME B.107.19.

• For inside circlips®

	mm	mm Ø min - max	Length mm	g
169G.9	0,9	8 - 11	140	120
169G.13	1,3	12 - 25	140	120
169G.18	1,8	18 - 60	180	190
169G.23	2,3	31 - 100	215	275

199G 90°-tip "compression" pliers

▷ DIN 5256, NF E 73-130, ASME B 107.19.

• For inside circlips.® .

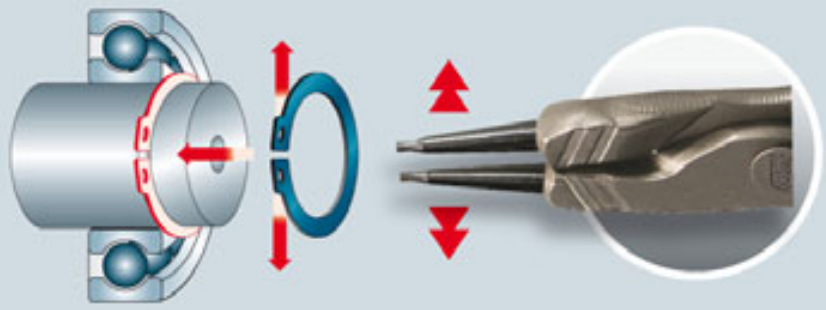
	mm	mm Ø min - max	Length mm	g
199G.9	0,9	8 - 11	130	120
199G.13	1,3	12 - 25	130	120
199G.18	1,8	18 - 60	170	190
199G.23	2,3	31 - 100	205	275

Outside circlip® pliers

• *Straight, 45° or 90° tip profiles.*
• *Varnished finish, PVC sheathing.*

Safety

Eye protection is recommended



177G Straight-tip "expansion" pliers

▷ DIN 5254, NF E 73-130, ASME B 107.19.

• For inside circlips.® .

	mm	mm Ø min - max	Length mm	g
177G.9	0,9	8 - 11	150	120
177G.13	1,3	10 - 25	150	120
177G.18	1,8	18 - 60	180	190
177G.23	2,3	32 - 100	215	275

167G 45°-tip "expansion" pliers

▷ NF E 73-130, ASME B 107.19.

• For inside circlips.®

	mm	mm Ø min - max	Length mm	g
167G.9	0,9	3 - 10	145	120
167G.13	1,3	10 - 25	145	120
167G.18	1,8	18 - 60	175	190
167G.23	2,3	32 - 100	210	275

197G 90°-tip "expansion" pliers

▷ DIN 5254, NF E 73-130, ASME B 107.19.

• For inside circlips.® .

	mm	mm Ø min - max	Length mm	g
197G.9	0,9	3 - 10	140	120
197G.13	1,3	10 - 25	140	120
197G.18	1,8	18 - 60	170	190
197G.23	2,3	32 - 100	200	275

Circlip® pliers

4-piece circlip® plier module®

MOD.PC2PB

• Comprising :
- Inside circlip® pliers 177G.18 (straight tip) ,and 197G.18 (90° tip).
- Inside circlip® pliers 179G.18 straight tip ,and 199G.18 (90° tip).

• Tray PL.332.

⚖ : 930 g.

Choosing the right circlip® pliers

• *Always select the nearest tip diameter to the size of circlip® holes (A)*

• *Never attempt to reshape the tips of the pliers.*

• *Safety first : Always wear eye protection when handling circlips®.*

Large-capacity pliers

479-499 Rack-type "compression" pliers for inside circlips®

• Interchangeable tips.
• Rack holds circlips® compressed for easy fitting and removal.
• Chrome finish, red PVC grips.
479.32 : straight tips.
499.32 : 45° tips.

	Tips	mm	⌀ mm min - max	Length max	⚖ g
479.32		3,2	85 - 200	310	480
499.32		3,2	85 - 200	310	480

477-497 Rack-type "expansion" pliers for outside circlips® pliers

• Similar overall design to 479-499.
477.32 : straight tips.
497.32 : 45° tips.

	Tips	mm	⌀ mm min - max	Length mm	⚖ g
477.32		3,2	85 - 200	310	480
497.32		3,2	85 - 200	310	480

490.SE Spare tips for pliers 477 to 499

• Each reference includes 2 tips and 2 screws.

	Tips	mm	⌀ mm min - max
490.SE28-1		2,8	65 - 120
490.SE32-1		3,2	85 - 200
490.SE38-1		3,8	120 - 200
490.SE28-2		2,8	65 - 120
490.SE32-2		3,2	85 - 200
490.SE38-2		3,8	120 - 200

Reversible pliers

Reversible circlip® pliers

REVERSIBLE CIRCLIP® PLIERS 475A

- *Single tool for both inside and outside circlips®*
- *Quick thumbscrew position setting.*

Circlip 1 for outside Circlips® .

Position 2 for inside Circlips®

475A Reversible inside and outside circlip® pliers

- Single tool for both inside and outside circlips®
- Burnished finish, PVC grips.

	mm	mm Ø min - max	mm Ø min - max	Length mm	g
475A.15	1,0	10 - 30	10 - 18	150	75
475A.20	1,8	20 - 48	19 - 45	200	155

Set of two reversible pliers

475A.J1

- Comprising :
- 475A.15 circlip® Ø 10 to 30 mm inside circlips® and Ø 10 to 18 mm.
- 475A.20 circlip® Ø 20 to 48 mm inside circlips® and Ø 19 to 45 mm.
- Supplied in a case 245 x 135 x 35 mm.

⚖ : 430 g.

Removable tip pliers

Inside and outside circlip® pliers

470

- Interchangeable tips for :
- Ø 8 to 63 mm for outside circlips® .
- Ø 3 to 63 mm for outside circlips® .
- Comprising :
- 469.PA Inside-circlip® pliers.
- 467.PA Outside circlip® pliers.
- 82.2.5 key.
- Set of 18 removable tips.
- Supplied in a plastic case.

⚖ : 1.5 kg.

	Description
467.01AJ2	Set of spare screws

Circlip® pliers

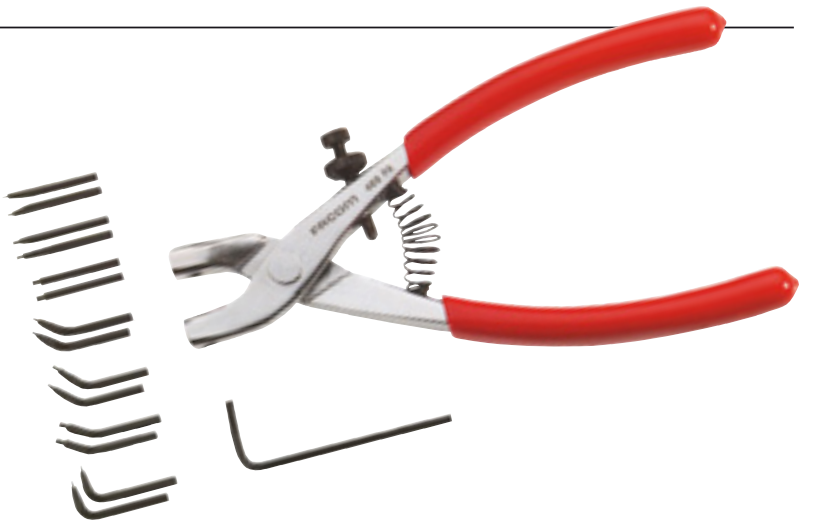
Inside circlip® pliers

469

- Interchangeable tips for ∅ 8 to 63 mm.
- Screw-stop adjustment.
- Spring-assisted opening.
- Chrome finish, red PVC grips.
- Supplied in a wallet with a key and set of tips E1 - E2 - E3 - E5 - E6 - E8 - E9.

⚖ : 160 g.

	Description
467.01AJ2	Set of spare screws



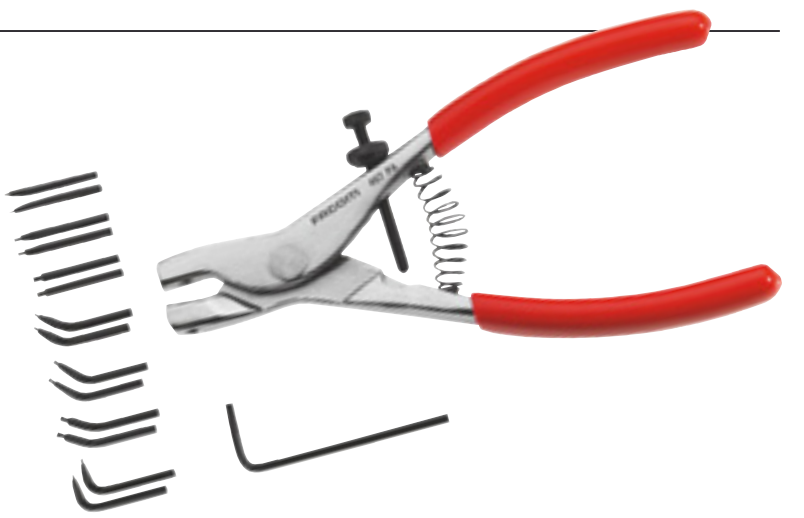
Outside circlip® pliers.

467

- Interchangeable tips for ∅ 3 to 63 mm.
- Screw-stop adjustment.
- Spring-assisted opening.
- Chrome finish, red PVC grips.
- Supplied in a wallet with a key and set of tips E1 - E2 - E3 - E5 - E6 - E8 - E9.

⚖ : 160 g.

	Description
467.01AJ2	Set of spare screws



470E Spare tips for circlip® pliers 467 and 469

- Available as straight, 45° and 90°-tip.
- Each reference includes a set of 2 tips.

	Tips	mm	○ mm ∅ min - max	○ mm ∅ min - max
470.E1		0,9	8 - 12	3 - 10
470.E2		0,9	8 - 12	3 - 10
470.E3		0,9	8 - 12	3 - 10
470.E5		1,3	12 - 25	10 - 25
470.E6		1,3	12 - 25	10 - 25
470.E7		1,3	12 - 25	10 - 25
470.E8		1,8	19 - 63	19 - 63
470.E9		1,8	19 - 63	19 - 63
470.E10		1,8	19 - 63	19 - 63

Snap-ring pliers

411A Outside snap-ring pliers

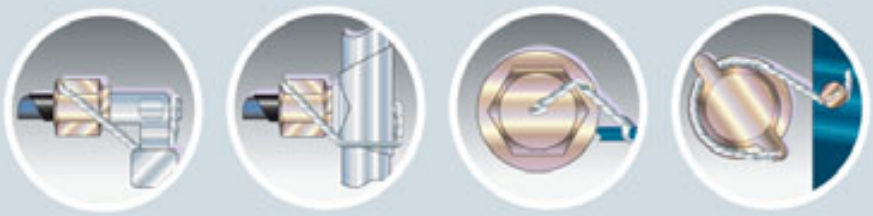
- Special tips for snap-rings and spring clips.
- Chrome finish, PVC grips.

	○ mm ∅ min - max	Length mm	⚖ g
411A.17	15 - 62	150	190
411A.20	60 - 160	190	275

Facom locking-wire pliers

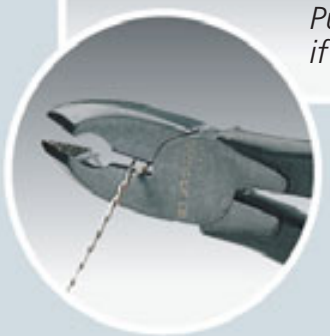
Fast twist in lock-wire securing assemblies subject to vibration.

- *For stainless and Inconel wire Ø 1 mm.*
- *Side wire-cutter.*
- *Slim nose-tip for optimum manoeuvrability.*
- *10" model: 3 turns, 125 mm travel.*
- *8" model: 2.5 turns, 95 mm travel.*



1. *Both wire ends gripped in nose.*

2. *Pull to twist lock-wire Push back for more travel if required.*



3. *Finish job with side cutter.*

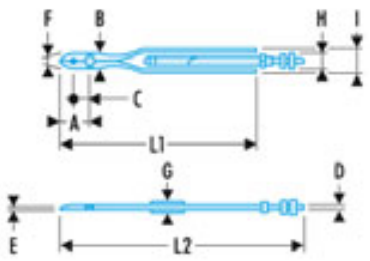
An extensive range

- *Compact model for locking fasteners standard pliers cannot reach.*
- *Automatic-reset model for simplicity and time-saving.*
- *Reversible model for working in either direction.*
- *An extensive range*

Locking-wire pliers

Short locking-wire pliers (8")

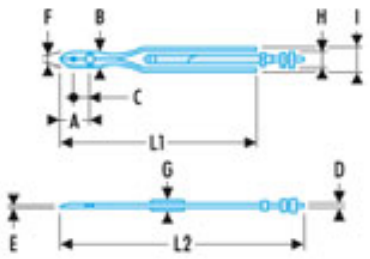
445.8 : standard model. ΔΔ 245 g.
445.8R : "automatic" model. ΔΔ 245 g.
445.8DS : reversible model. ΔΔ 260 g.
• For stainless wire ∅ 1 mm.



	F mm	G mm	A mm	B mm	C mm	D mm	E mm	H mm	Ø Stain-less max mm	I mm	L1 mm	L2 mm	ΔΔ g
445.8	3	15	20	15	7	10,5	2,5	22	1	37	170	215	245
445.8R	3	15	20	15	7	10,5	2,5	22	1	37	170	215	245
445.8DS	3	23	21,5	15	7	10,5	2,5	31,5	1	37	170	215	260

Locking-wire pliers (10")

445.10 : standard model.
445.10R : "automatic" model
445.10DS : reversible model.



	F mm	G mm	E mm	A mm	B mm	C mm	D mm	H mm	I mm	Ø Stain-less max mm	L1 mm	L2 mm	ΔΔ g
445.10	3	15,5	2,5	30	19	11	11,5	25	40	1	230	360	395
445.10R	3	15,5	2,5	30	19	11	11,5	25	40	1	230	360	400
445.10DS	3	15,5	2,5	30	20	11	11,5	31,5	44	1	230	360	445

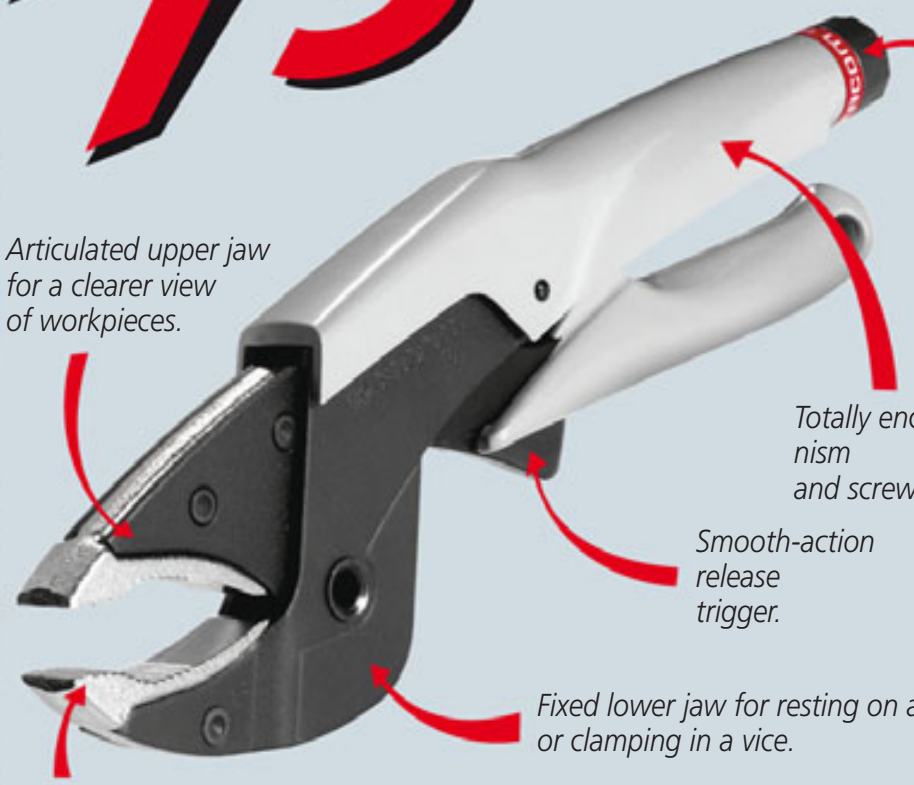
Lock-grip pliers

"T5" lock-grip pliers

Ergonomic and safe lock-grip pliers

T5

SAFE, PRACTICAL AND ERGONOMIC



Multipurpose forged and hardened jaws. Capacity 40 mm 65 mm 100 mm

Smooth, controlled release.

ONE-HAND OPERATION

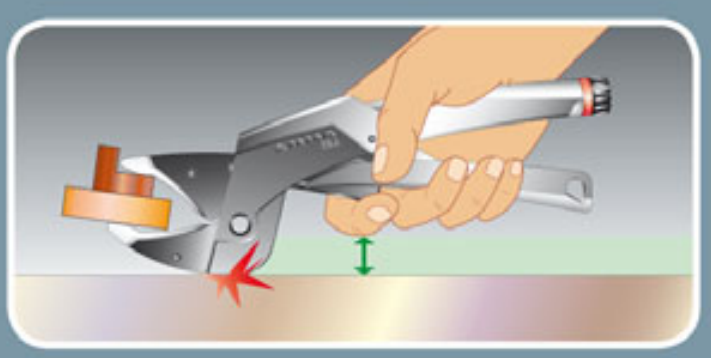
T5 : Increased safety.

No shocks to the hand

- *The trigger system eliminates shocks to the hand on release.*

Hand protection

- *Good finger clearance between lever and work surface.*



T5 : More practical and ergonomic.

One-hand operation

- *The pliers clamp and release with one hand even when very tight.*
- *Leaves the other hand free to hold components.*

Controlled release

- *The trigger system ensures progressive and controlled release.*
- *T5 pliers maintain pressure and components remain assembled between the jaws during unclamping.*

Ergonomic

- *Ergonomic sheathed handles and demultiplication reduces fatigue.*

T5.L Aluminium-sheathed trigger-release lock-grip pliers

- Ergonomic aluminium sheathing, protects against weld spatter.
- Controlled, progressive release.
- Practical and comfortable : one-handed operation, small grip opening at all jaw openings.
- Forged in Chrome Molybdenum steel with treated jaws for a longer working life.

	Dimensions mm	Opening maxi mm	ΔΔ g
T5.L	250 x 75 x 22	Ø 40 mm	631
T5.L65	290 x 80 x 22	Ø 65 mm	819
T5.L100	320 x 100 x 22	Ø 100 mm	943

T5.L

T5.L65

T5.L100

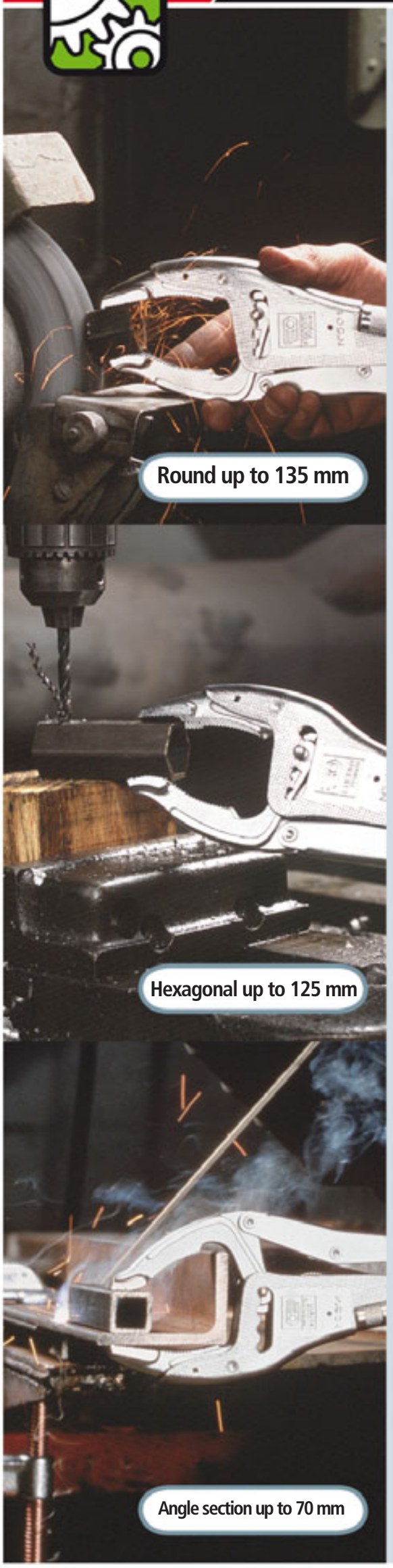
Plastic-sheathed trigger-release lock-grip pliers

T5.1L

- Ideal for on-site maintenance.
- Controlled, progressive release.
- Practical and comfortable : One-handed operation, small grip opening.
- Forged in Chrome Molybdenum steel with treated jaws for a longer working life.
- Dimensions 250 x 75 x 22 mm.

ΔΔ : 565 g.

"Original 500" lock-grip pliers

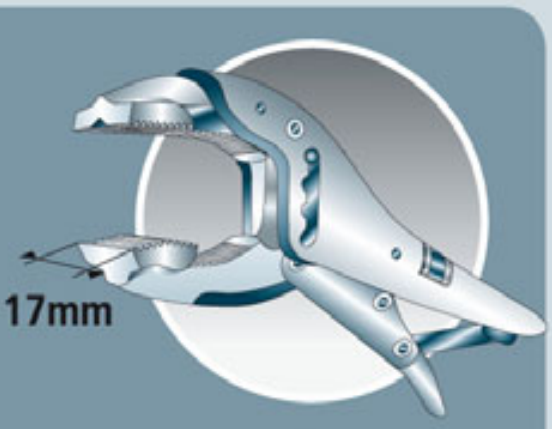


LARGE CAPACITY LOCKS ON TO ANY SHAPE

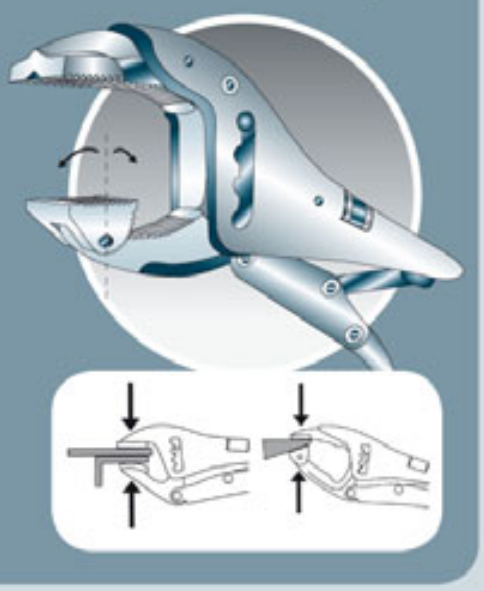
"ORIGINAL 500" lock-grip pliers feature the efficient slip-joint developed by Facom.

- *Wide opening.*
- *Constantly parallel jaws.*
- *Reach beyond edges up to 70 mm high.*

Jaws engineered for secure grip.



- *17 mm wide.*
- *Machined groove in upper jaw holds small round sections.*
- *Serrations along full jaw length.*
- *Chrome-molybdenum steel. For better wear. resistance.*



Hinged tip versions.

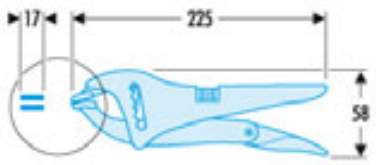
- *To adapt to any grip configuration. Moving-tip option on model 506/516.*

Large-capacity lock-grip pliers

Short-nose pliers

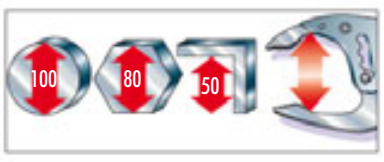
500

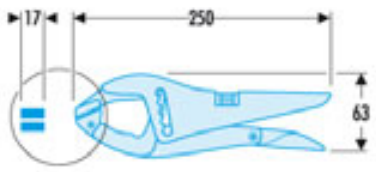
• 4-position slip joint system.
• Chrome finish.
⚖ : 540 g.



501 - 506 Long-nose pliers

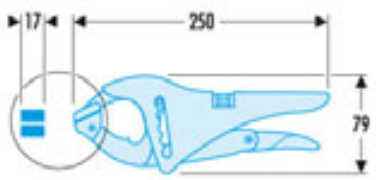
• 501 :
- 4-position slip joint system.
- Chrome finish.
⚖ : 620 g.
• 506 - Type 501 with hinged tip.
- The hinged jaw tip adapts to any grip configuration.
- 4-position slip joint system.
⚖ : 640 g.





511 - 516 5-position slip joint long-nose pliers

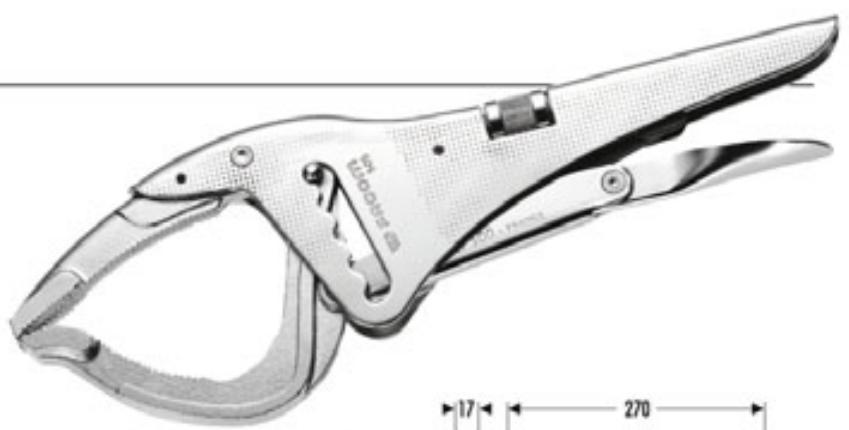
• 511 :
- 5-position slip joint for increased capacity.
- Chrome finish.
⚖ : 680 g.
• 516 - Type 511 with hinged tip.
- The hinged jaw tip adapts to any grip configuration.
- 5-position slip joint system.
⚖ : 695 g.

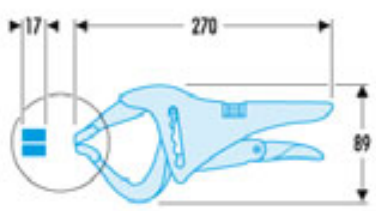


5-position slip joint large-capacity pliers

505

• 5-position slip joint, deep jaw.
• Chrome finish.
⚖ : 720 g.

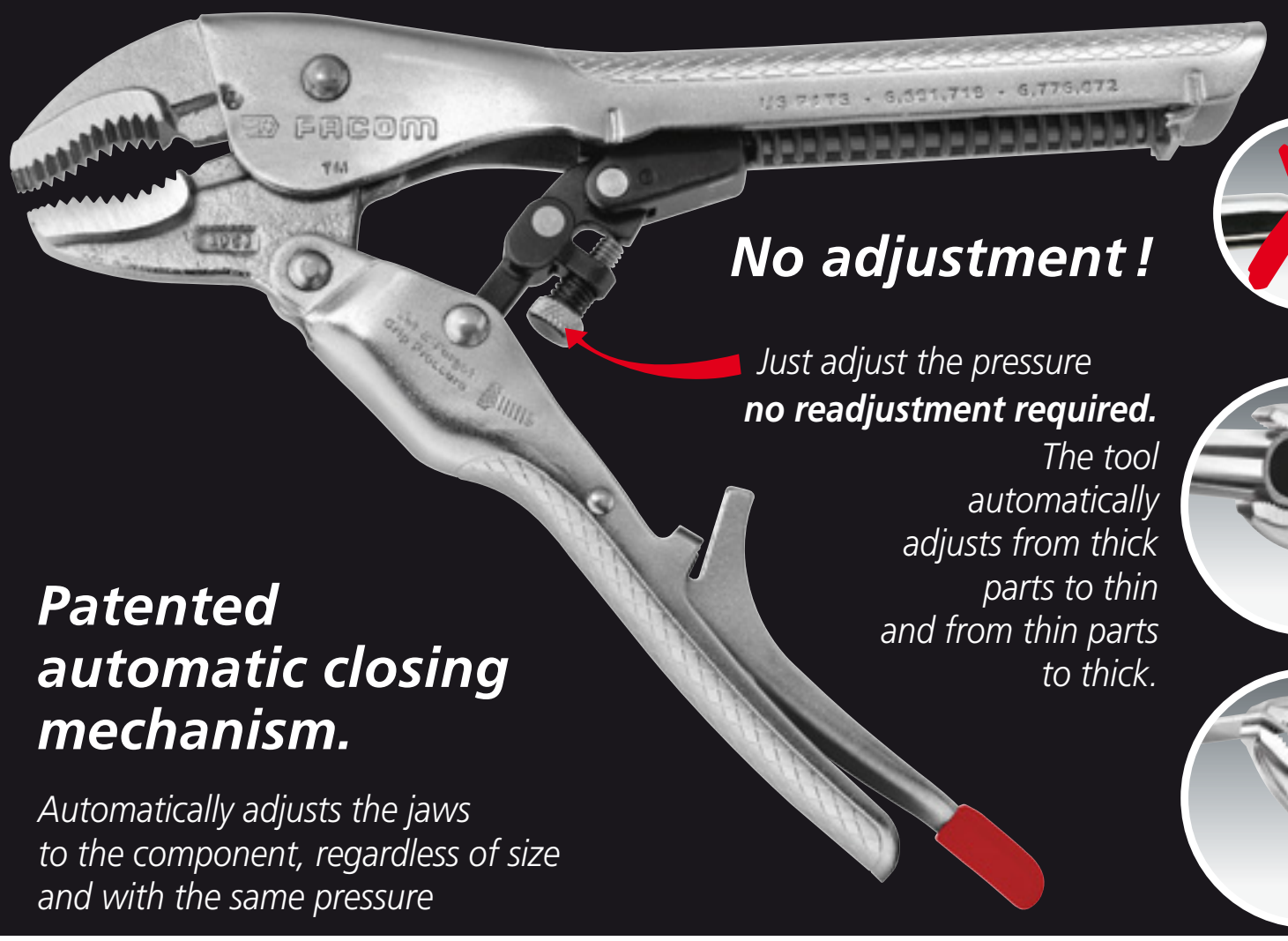




New

SERIES 580 : Automatic lock-grip pliers

Ideal for saving time and for production work.



No adjustment !

Just adjust the pressure
no readjustment required.
The tool automatically adjusts from thick parts to thin and from thin parts to thick.

Patented automatic closing mechanism.

Automatically adjusts the jaws to the component, regardless of size and with the same pressure

Automatic lock-grip pliers

580 Multi-purpose angle-nose lock-grip pliers

• Suitable for industrial and automotive production and maintenance applications.
- Forged in Chrome Molybdenum steel with treated jaws for longer working life.
- Non-slip chequered handle.
- One-hand unlocking by internal opening lever.
- Chrome finish, burnished mechanism (patented).

	L x H mm	A mm	B mm	C mm	g
580.6	150 x 45	30	21	8	235
580.10	250 x 63	38	30	12	642

Long-nose lock-grip pliers

582.7

• For holding, placing or removing components where access is difficult.
• Tips designed for holding flat or circular sections.
- Forged in Chrome Molybdenum steel with treated jaws for longer working life.
- Non-slip chequered handle.
- One-hand unlocking by internal opening lever.
- Chrome finish, burnished mechanism (patented).

	L x H mm	A mm	B mm	C mm	g
582.7	175 x 45	45	61	5,5	256

Compact lock-grip pliers

507 series compact lock-grip pliers

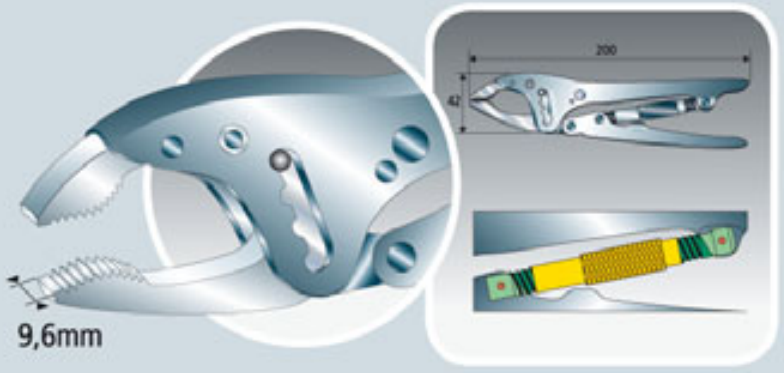
The "compact 507" range offers two major benefits

Versatility *provided by the slip-joint system designed and developed by Facom that combines :*

- *Wide opening.*
- *Constantly parallel jaws*
- *Reach beyond edges.*

Slim profile and precision

- *Compact tool with narrow nose.*
- *Fine adjustment with the unique Facom knurl system.*



Short-nose lock-grip pliers

507A

- Forged jaws.
- Chrome finish.
- Length 200 mm.

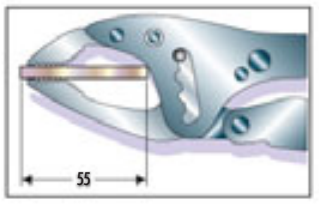
⚖ : 330 g.

Long-nose lock-grip pliers

509

- Forged jaws.
- Chrome finish.
- Length : 215 mm.

⚖ : 370 g.



Lock-grip pliers

"Single-setting" lock-grip pliers

513 Short-nose single setting lock-grip pliers

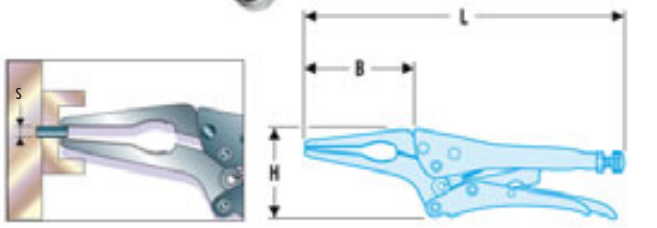
- Slim jaws.
- Hand-screw adjustment.
- Black cataphoretic finish.

	L x H mm	A mm	B mm	C mm	⚖ g
513.5	140 x 49	25	18	6,4	180
513A.7	190 x 59	35	27	9,0	380
513.10	235 x 71	55	35	10,3	628

517 Long-reach single setting lock-grip pliers

- For reaching and gripping components in confined spaces.
- Chrome finish.

	S max mm	B mm	H mm	L mm	⚖ g
517.6	55	50	48	165	200
517.10	70	80	60	235	430



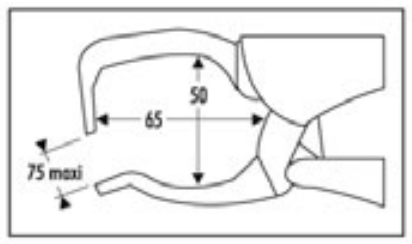
"Metalworking" lock-grip pliers

Arc-welding lock-grip pliers

502A

- Light alloy spatter-proof jaws.
- Steel body.
- Secure and precise alignment of work pieces.
- Ample clearance for the welding tool.
- Chrome finish.
- Dimensions 280 x 82 x 70 mm.

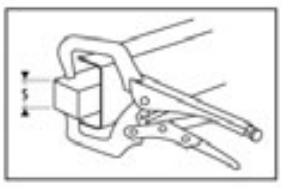
⚖ : 735 g.

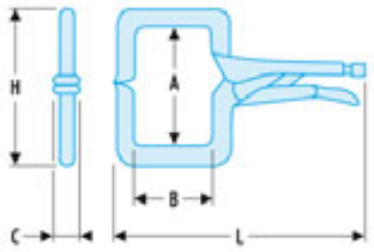


504A "C-clamp" arc-welding lock-grip pliers

- Light alloy spatter-proof jaws.
- Steel body.
- Secure clamp for welding shaped or angled sections, and channels.
- Chrome finish.

	S max mm	A mm	B mm	C mm	H mm	L mm	⚖ g
504A.100	80	100	65	12	147	280	655
504A.180	125	180	120	20	240	350	927



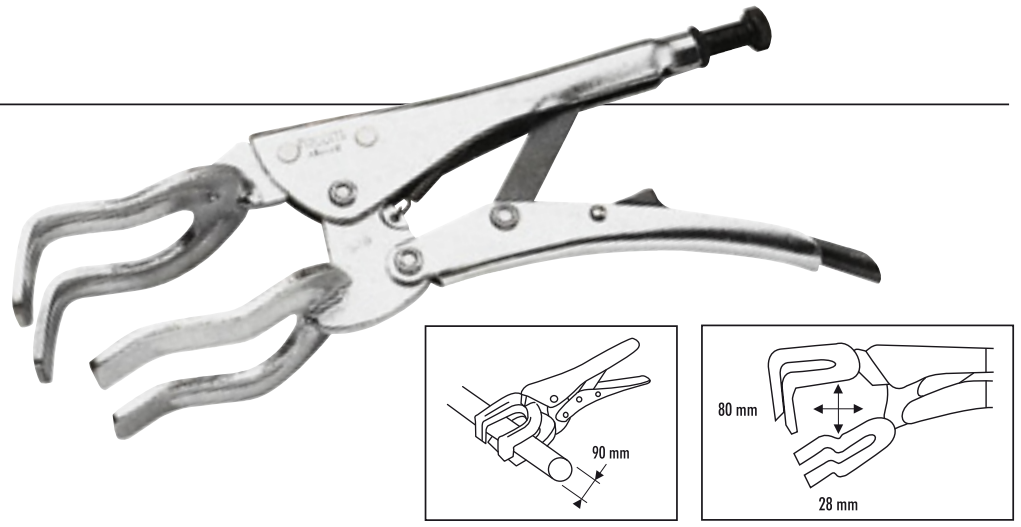


Lock-grip pliers for round sections

503

- Secure clamping of round sections.
- Pressed-steel jaws and body.
- Chrome finish.
- Dimensions 280 x 85 x 68 mm.

⚖ : 945 g.

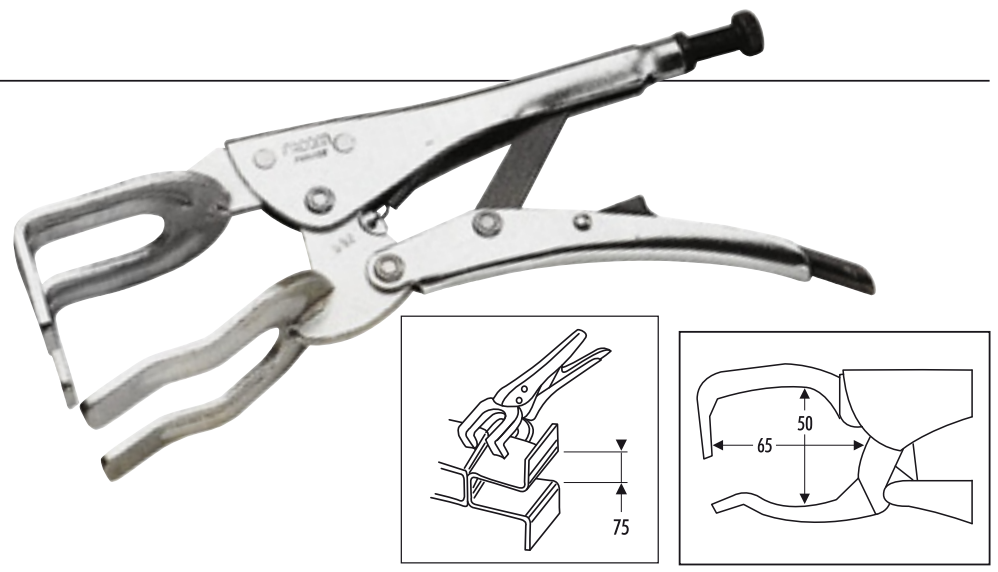


Lock-grip pliers for angle sections

512

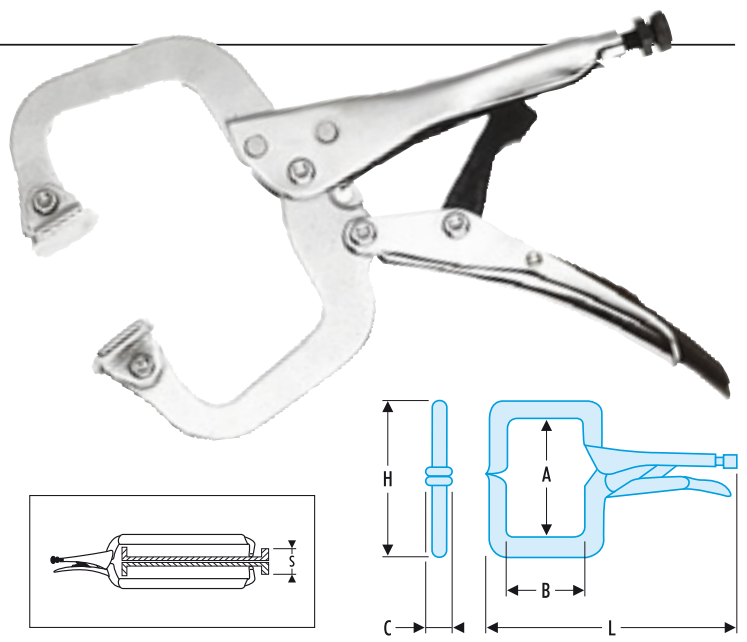
- Secure clamping of angle and channel sections.
- Pressed-steel jaws and body.
- Chrome finish.
- Dimensions 280 x 85 x 70 mm.

⚖ : 953 g.



514A - 514A.R Long-reach lock-grip pliers

- Special forged-steel jaws for secure clamping of angle sections and deep channels.
- Pressed-steel body.
- Chrome finish.
- "R" models have hinged shoes at their tips.

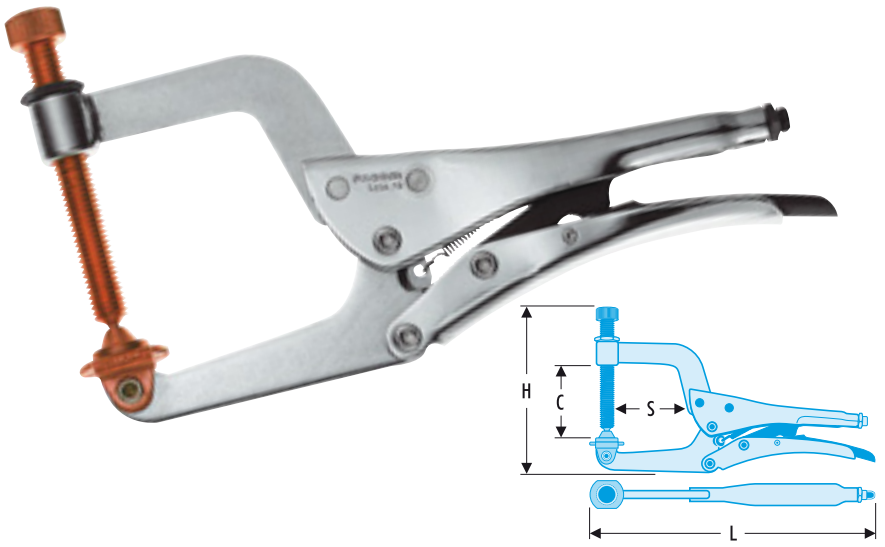


	S max mm	A mm	B mm	C mm	H mm	L mm	⚖ kg
514.45R	45	60	45	19	90	175	0,270
514A.65	70	100	65	12	150	300	0,905
514A.240	230	100	240	20	165	460	1,420
514A.240R	230	100	240	32	165	460	1,530
514A.400	370	100	400	20	165	630	1,705

Bar clamp lock-grip pliers

520A Lock-grip G-clamps

- Coppered screw with swivel shoe.
- Fine setting with locknut.
- Chrome finish.



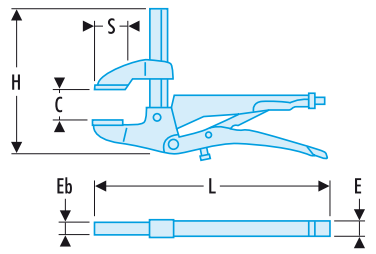
	S mm	C mm	L mm	H mm	⚖ kg
520A.70	70	70	280	165	1,02
520A.100	70	100	280	196	1,095
520A.170	70	170	280	270	1,250

Lock-grip pliers

521 G-clamp pliers with sliding jaw

- Clamping force 4,000 N, adjustable.
- Zinc-plated, forged and hardened sliding jaw.
- Case-hardened and chromed teeth.
- Lower jaw angle screw-adjustable through 9°.
- Chrome finish.

	C max mm	Eb mm	S mm	E mm	H mm	L mm	kg
521.100	100	15	65	28	190	260	1,02
521.150	150	15	65	28	240	260	1,11
521.200	200	15	65	28	290	260	1,18



End nippers

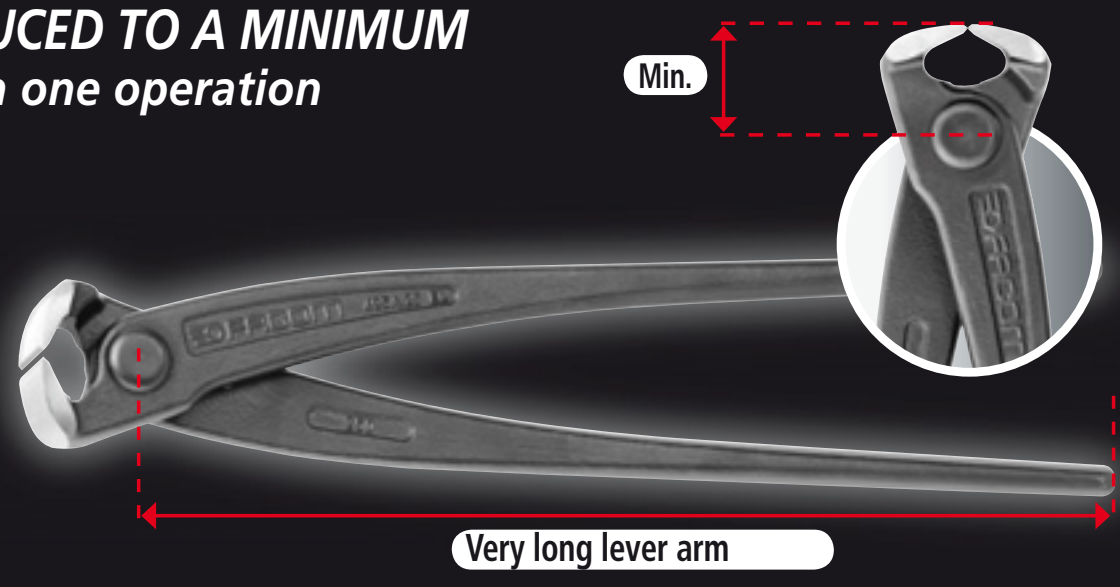
High-performance nippers and cutters

CUTTING EFFORT REDUCED TO A MINIMUM
For tying and cutting in one operation

Clean cut.
- *Cutting edges sharpened after heat treatment for cleanly cutting lacing cord.*

Maximum cutting power.
- *Offset pivot.*

Maximum accessibility.
- *Tapered shape.*

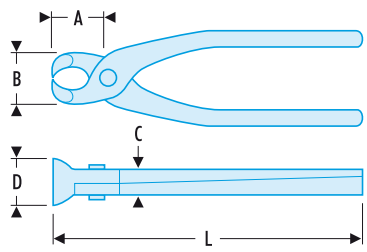


New

495A Heavy-duty end nippers

▷ ISO 9242, DIN ISO 9242, NF ISO 9242.
- Rounded, semi-rigid handles designed to turn quickly in the hand.
- 60/62 HRc high-frequency hardened cutting edges for long life.
- Cutting capacity;
- To Ø 4.5 mm on soft wire (300 mm model).
- Max. on hard wire 160 Kg/mm².
- Burnished finish, polished head.

	A mm	B mm	C mm	L mm	D mm	g
495A.20EL	10	28	12	200	20	240
495A.22EL	10,5	31	13	23	23	310
495A.25EL	12	35	14	250	25	390
495A.28EL	12	35	14	280	25	450
495A.30EL	12	35	14	300	25	510

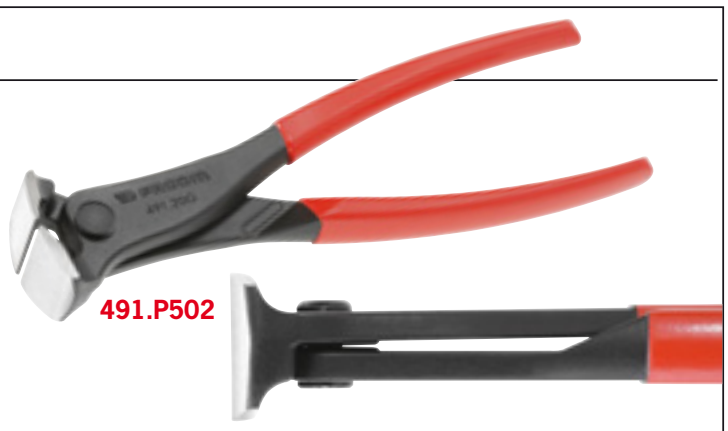


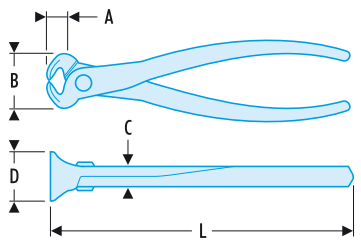
New

491 End nippers

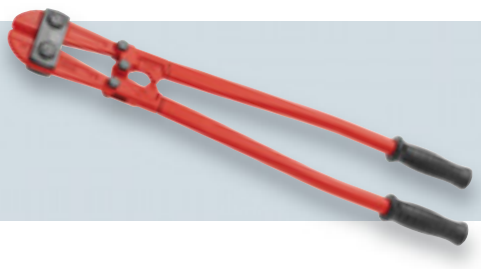
▷ ISO 5748, DIN ISO 5748, NF ISO 5748.

- Protruding cutting edges, for mild and hard wire (max. 160 Kg/mm²).
- Offset pivot for maximum cutting power.
- 60/62 HRc high-frequency hardened cutting edges for long life.
- Burnished finish, polished head, PVC grips.





	Ø maxi mm 160 kg/mm²	A mm	B mm	C mm	D mm	L mm	ΔΔ g
491.18G	2,6	11,5	39	14,6	32	180	300
491.20G	3,0	11,5	39	14,6	32	200	400
491.22G	3,6	12,7	43	14,6	34	220	450



For bolt croppers see p. 503

For PVC grip pliers see p. 386

Special pliers

Plastics cutters

Plastics cutters

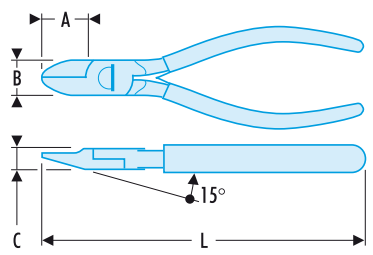
Special cutters to remove tails and burrs from injection-moulded components HF hardened cutting edges and flush cut for clean result

FLUSH CUT

395 Plastics cutters

- 2 joint and length sizes.
- Polished burnish finish, red PVC grips.
- Spring-assisted opening.

	Ø maxi mm	A mm	B mm	C mm	L mm	ΔΔ g
395.14	6	20	16	10	140	115
395.16	7	22	18	11	160	150

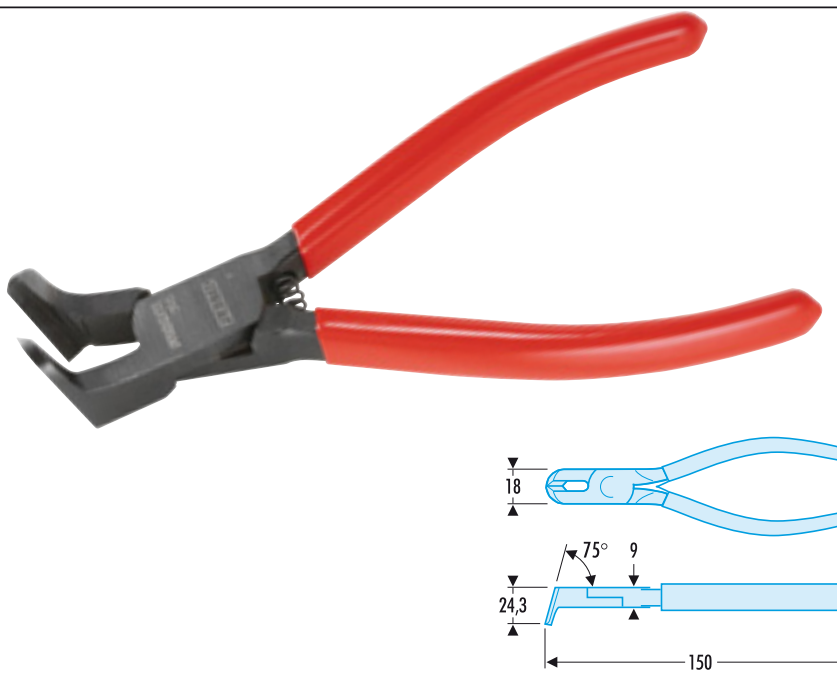


75° plastics cutters

396

- 75° cutting edges.
- Polished burnish finish, red PVC grips.
- Spring-assisted opening.

⚖ : 145 g.



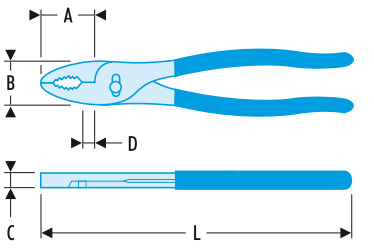
Motorists pliers

186 Motorists pliers

▷ ISO 9343, DIN ISO 9343, NF ISO 9343, ASME B 107.23 M.

- 2-position adjustable slip-joint.
- Slim nose for accessibility.
- Chrome finish, red PVC grips.

	A mm	B mm	C mm	D mm	L mm	⚖ g
186.7CPG	31	29	9,0	6,5	166	170
186.8CPG	35	31	10,5	7,5	204	270



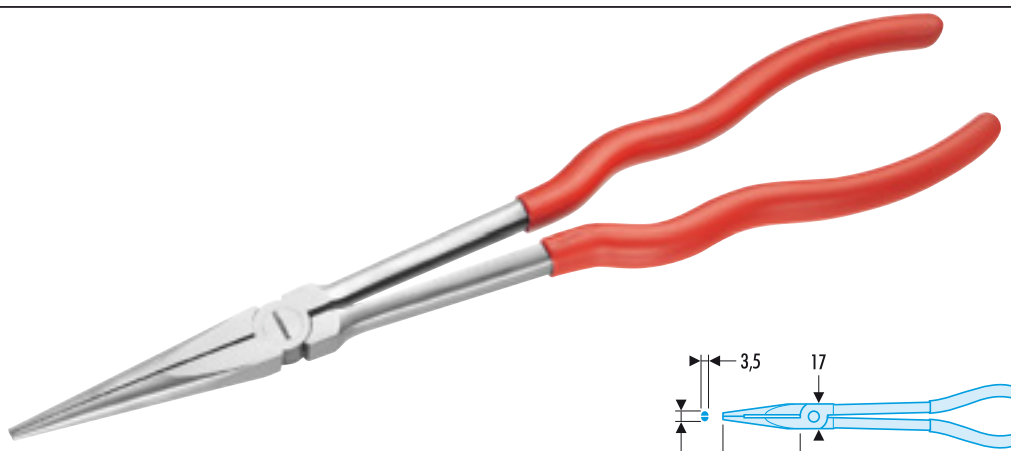
Extra-long reach half-round nose pliers

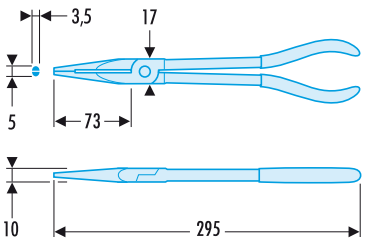
Extra-long reach half-round nose pliers

185.28EG

- For reaching components in confined spaces.
- Serrated jaws.
- Polished, red PVC grips.

⚖ : 304 g.



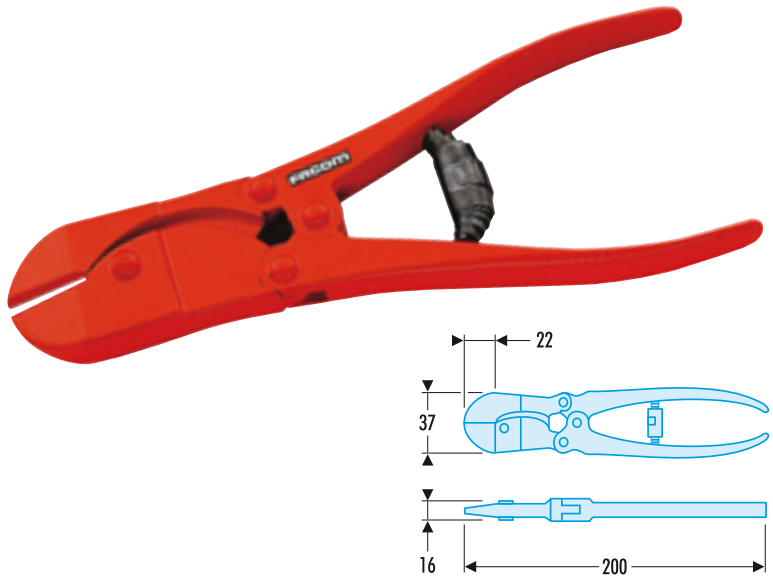


Low-effort cutters

Diagonal cutters

171.20EL

▷ ISO 5749, DIN ISO 5749, NF ISO 5749.
• Demultiplication system for increased capacity with minimum cutting effort. Piano wire 200 kg/mm² : ∅ 2.5 mm.
• Red paint finish.
⚖ : 515 g.

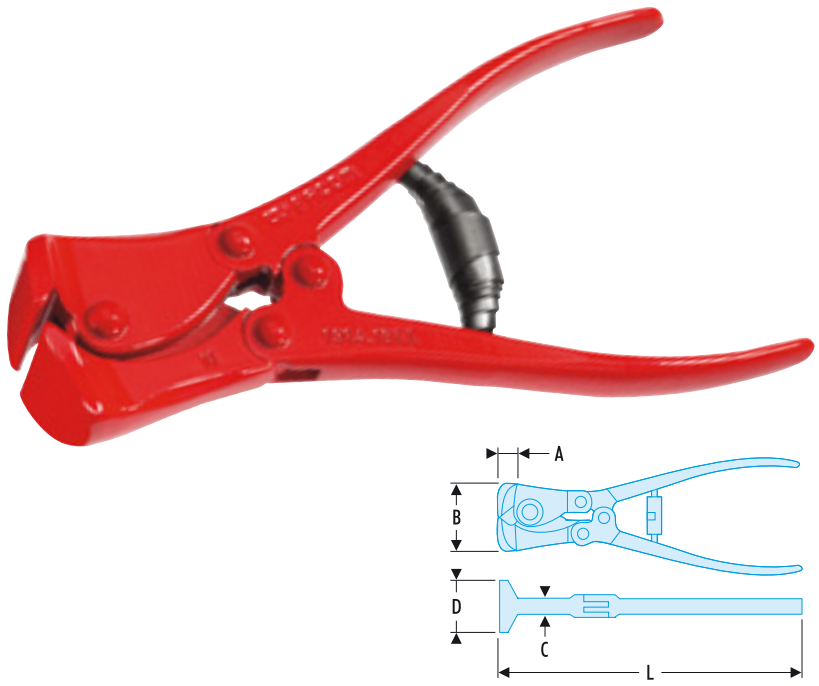


End-cutters

191A.22EL

▷ ISO 5748, DIN ISO 5748, NF ISO 5748.
• Compound leverage for increased capacity with minimum cutting effort. Piano wire up to 200 kg/mm².
• Red paint finish.

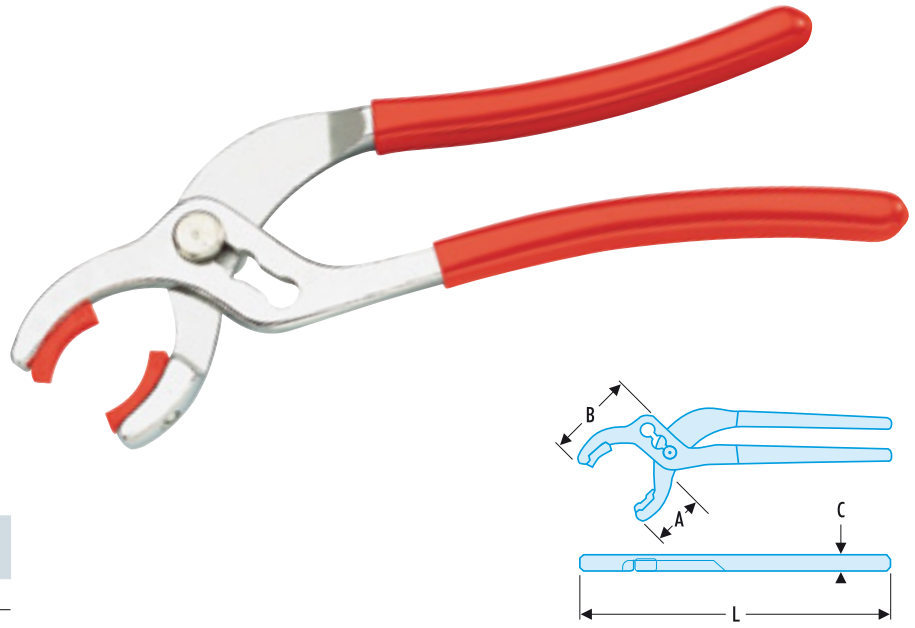
	∅ max mm	A mm	B mm	C mm	D mm	L mm	⚖ g
191A.22EL	2,5	9	48	17	34	210	660



"Connector" pliers

410 Connector pliers

• For handling fragile round components, e.g. screwed connector sleeves, tubes, lamps or wire looms, etc.).
• Replaceable plastic jaws.
• Wide capacity (up to∅ 55 mm) from 3-position slip-joint.
• Polished chrome finish, red PVC grips.
• 2 jaw hardness options :
- 410 : 410 : Hard jaws - 70 Shore B.
- 410.S : Soft jaws - 55 Shore B.
■ Spare jaws :
- 410.1 : Set of 2 jaws with screws (hard).
- 410.S1 : Set of 2 jaws with screws (soft).



	A mm	B mm	C mm	L mm	⚖ g
410	47	68	10	230	320
410.S	47	68	10	230	320

Plier sets and modules

"Mechanics" set

184.J2

• Comprising :
- Multigrip pliers 170A.
- Two-position slip-joint pliers 186.7CPG
- Diagonal cutters 192.18G.
- Half-round nose pliers 193.16G.
• Supplied as a roll set 260 x 100 x 50 mm.

		g
184.J2	N.38A-4B	985

"Maintenance" set

184.J3CPE

• 12 tools.
• Comprising :
- Locking multigrip pliers 181.25CPE.
- Combination pliers 187.18CPE.
- Diagonal cutters 192.18CPE.
- End cutters 190.20CPE.
- Flat-nose pliers 188.16CPE.
- Straight half-round nose pliers 185.20CPE.
- Angled half-round nose pliers 195.20CPE
- Screwdriver for slotted heads AN4x100.
- Screwdriver for slotted heads AWH6.5X150.
- Screwdriver for slotted heads ANF6.5X150.
- Screwdriver for Phillips® heads ANP1X100.
- Screwdriver for Phillips® heads ANP2X125.

		kg
184.J3CPE	N.38A-12C	2,2

"Electrical fitters" set

184.J4CPE

• Comprising :
- Combination pliers 187.18CPE.
- Diagonal cutters 391.16CPE.
- Wire strippers 194.17CPE.
- Round-nose pliers 189.17CPE.
- Half-round nose pliers 195.20CPE.
- Flat-nose pliers 188.16CPE.
- 3 screwdrivers for slotted heads, 1,000V insulated A2.5X75VE, A3.5X100VE, A5.5X125VE.
- Adjustable wrench 113A.8C.

		kg
184.J4CPE	N.38A-10C	1,7

"Electricians" set

184.J5VE

• 1,000V insulated tools to EN 60900.
• Comprising :
- Diagonal cutters 192.16VE.
- Combination pliers 187.18VE.
- Half-round nose pliers 185.20VE.
- 2 screwdrivers for slotted heads A.VE (4x100-5.5x125).
- Screwdrivers for Pozidriv® heads AD1X100VE.

		kg
184.J5VE	N.38A-6F	1,1

3-piece CPE plier set

CPE.3

• Comprising :
- Locking multigrip pliers 181.25CPE.
- Diagonal cutters 192.16CPE.
- Half-round nose pliers 185.20CPE.
• Supplied in a cardboard box.
⚖ : 790 g.

4-piece CPE plier set

CPE.4

• Comprising :
- Locking multigrip pliers 181.25CPE.
- Diagonal cutters 192.16CPE.
- Half-round nose pliers 185.20CPE.
- Combination pliers 187.18 CPE.
• Supplied in a cardboard box.
⚖ : 1.02 kg.

3-piece set of 1,000 Volt pliers to EN 60900

VE.3

• Comprising :
- Multigrip pliers 180.VE.
- Diagonal cutters 391.16VE.
- Angled half-round nose pliers 195.20VE.
• Supplied in a cardboard box.
⚖ : 790 g.

Plier sets and modules

New

Foam 4-piece plier module

MODM.CPE1

• Comprising :
- 192.16CPE : diagonal cutters.
- 185.20CPE : half-round nose pliers.
- 181.25CPE : locking twin slip-joint multigrip pliers
- 501 : large-capacity lock-grip pliers
- Foam tray PM.MODCPE1.

⚖ : 1.480 kg.

3-piece "mechanics" CPE plier module

MOD.CPE

• Comprising :
- Half-round nose pliers 185.20CPE.
- Combination pliers 187.18CPE.
- Diagonal cutters 192.16CPE.

• Tray PL.627.

⚖ : 942 g.

3-piece "mechanics" TE plier module

MOD.TE

• Comprising :
- Half-round nose pliers 185.20TE.
- Combination pliers 187.18TE.
- Diagonal cutters 192.16TE.

• Tray PL.627.

⚖ : 942 g.

3-piece EN 60900-compliant 1,000 Volt VE plier module

MOD.VE

• Comprising :
- Multigrip pliers 180.VE.
- Diagonal cutters 391.16VE.
- Wire strippers 194.17VE.

• Tray PL.622.

⚖ : 950 g.

2-piece adjustable plier module

MOD.PR9

• Comprising :
- Locking multigrip pliers 181.25CPE.
- Trigger-release lock-grip pliers T5.L.

• Tray PL.330.

⚖ 1.160 kg.

2-piece adjustable plier module

MOD.PR4

• Comprising :
- Multigrip pliers 180.CPE.
- Trigger-release lock-grip pliers T5.L.

• Tray PL.330.

⚖ : 1.158 kg.

2-piece adjustable plier module

MOD.PR6

• Comprising :
- Locking multigrip pliers 181.25CPE.
- Large capacity lock-grip pliers 501.
• Tray PL.330.
⚖ : 1.19 kg.

2-piece adjustable plier module

MOD.PR8

• Comprising :
- Multigrip pliers 180.CPE.
- Short-nose lock-grip pliers 500.
• Tray PL.330.
⚖ : 1.094 kg.

2-piece adjustable plier module

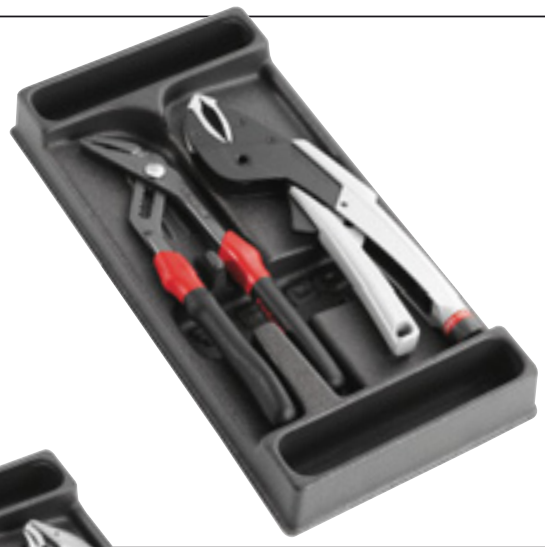
MOD.PR1

• Comprising :
- Notch-joint multigrip pliers 482.CPE.
- Short-nose lock-grip pliers 500.
• Tray PL.330.
⚖ : 1.1 kg.

2-piece adjustable plier module

MOD.PR7

• Comprising :
- Multigrip pliers 180.TE.
- Trigger-release lock-grip pliers T5.L.
• Tray PL.330.
⚖ : 1.158 kg.



2-piece adjustable plier module

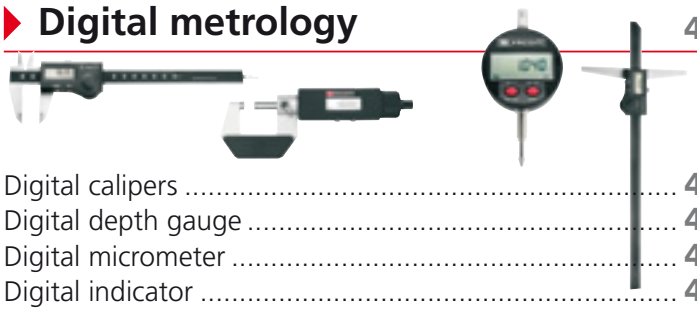
MOD.PR5

• Comprising :
- Multigrip pliers 180.TE.
- Short-nose lock-grip pliers 500.
• Tray PL.330.
⚖ : 1.094 kg.

5m X25
Pro for life

9. Measuring, marking-out, metrology

Digital metrology 420



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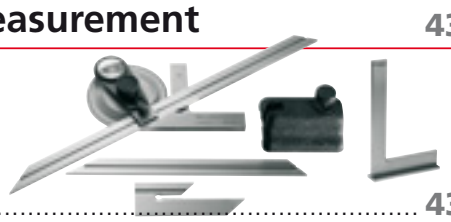

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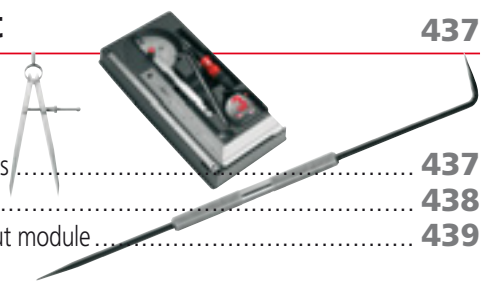

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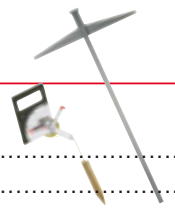

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NEW

Series 897 stainless steel tape measures

Professional quality stainless steel and bi-material tape measures

Advantages

- Stainless steel case
- Soft grip
- Nylon blade and high strength hook

N 442

NEW

Series 893

ABS case - Nylon blade

Advantages

- Compact
- Sturdy
- Easy to maintain

N 443

NEW

Easy, efficient and reliable

Advantages

- Easy to read
- Fast
- Efficient, reliable data transmission
- IP65 : Resistant to water and dust

N 420

Metrology - Introduction to the Standards

DIN 862

- Vernier and digital caliper measurements from 0 to 2,000m.
- Vernier or circular scale reading to 0.1 / 0.05 / 0.02mm.

• ***Dimensional standard***

Length of rule	Height of lower jaw	Height of upper jaw	Total thickness for inside measurement	Extent of depth gauge
	a1	a1	a1	a1
	mm	mm	mm	mm
160	40	8	5	100
200	60		10	
250	75	10		
250	90			

• ***Accuracy***

Length of rule	limit of error in µm			
	Accuracy			Digital reading
	0.1 1/10ème	0.05 1/20ème	0.02 1/50ème	0.01 1/100ème
50	50		20	20
100				
200			30	30
300				

• ***Hardness of measuring surfaces.***

- +/- 53 HRc for stainless steel.

• ***Digital display measurements.***

- Rate of displacement > standard (0.5 m/s).
- Error notification in case of :
- Excessive speed.
- Low power.

DIN 861- Part 1 - Outside micrometers - Standard design.

Mechanical and digital display micrometer.

• ***Dimensional standard.***

- Anvil diameter 6.5, 7.5 or 8 mm.
- Tolerance of flatness of measuring surfaces 0.6µm.
- The locking lever must not alter the reading by more than 2µm.
- Thimble graduation.

Range of measurement	Bias error	Tolerance of parallelism Applied force = 10N	Frame bending tolerance Applied force = 10N
mm	µm	µm	µm
0-25	4	2	2
25-50	4	2	2
50-75	5	3	3
75-100	5	3	3

Other specifications covered by the standard.

• ***Maximum force applied to the measured component between 5 and 10N.***

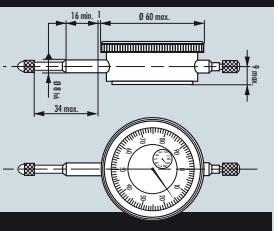
• ***The quality of the materials used and their elasticity under load.***

DIN 878 - Dial gauges to 1/100 mm

• ***Dimensional standard.***

• ***Definition of accuracy.***

• ***Measuring force - between 0.3N and 1.5N.***



DIN 875 - Engineers squares

• ***Accuracy class.***

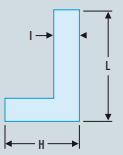
• ***Perpendicularity tolerance of 2 surfaces.***

• ***Flatness of edges.***

• ***Legal markings.***

Perpendicularity tolerance in µm			
Dimensions	Accuracy class		
	0	1	2
75	7	14	28
100	7	15	30
150	8	18	35
200	9	20	40
250	10	23	45
300	11	25	50
500	15	35	70

Tolerance of flatness in µm			
LxH	Accuracy class		
mm	0	1	2
50	3	5	10
70	3	5	11
75	3	6	11
100	3	6	12
130	3	7	13
150	4	7	14
165	4	7	15
200	4	8	16
250	5	9	18
300	5	10	20
330	5	11	
500	7	14	28



Dimensions	H	
L	Classe 00/0/1	Classe 2
75	50	50
100	70	70
150	100	100
200	130	130
250	165	165
300	200	175
500	330	250

Digital calipers

New DIGITAL DISPLAY MEASUREMENTS

EASY, EFFICIENT AND RELIABLE

Easy to use

- *Clear, easy-to-read LCD screen.*
- *More intuitive to use.*
- *Quick and easy to operate.*
- *Easier data transmission.*

Reliable

- *DIN 862.*
- *Ingress protection (IP) - IEC529.*

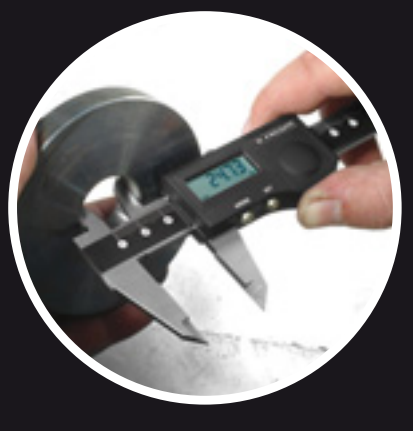
- Protection against dust and liquids

- *For perfect reliability under all operating conditions.*

- IP 6x = No dust penetration.

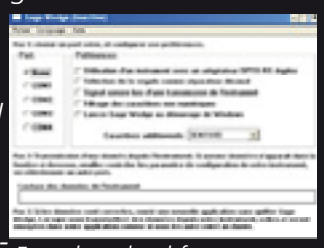
- IP x5 = Protected against water jets from

- *Any direction during for 3 minutes.*
- *Patented inductive measuring system.*
- *RS 232 connection.*
- *PC data transmission utility.*



Efficient data transmission

- *Gagewedge utility program developed for FACOM.*
- *Reliable data recording.*
- *Saves time, simple and easy to use.*
- *Compatible with the entire FACOM digital range.*
- *Easy RS232 cable connection between the measuring instrument and the PC.*



Free download from www.Facom.com

New

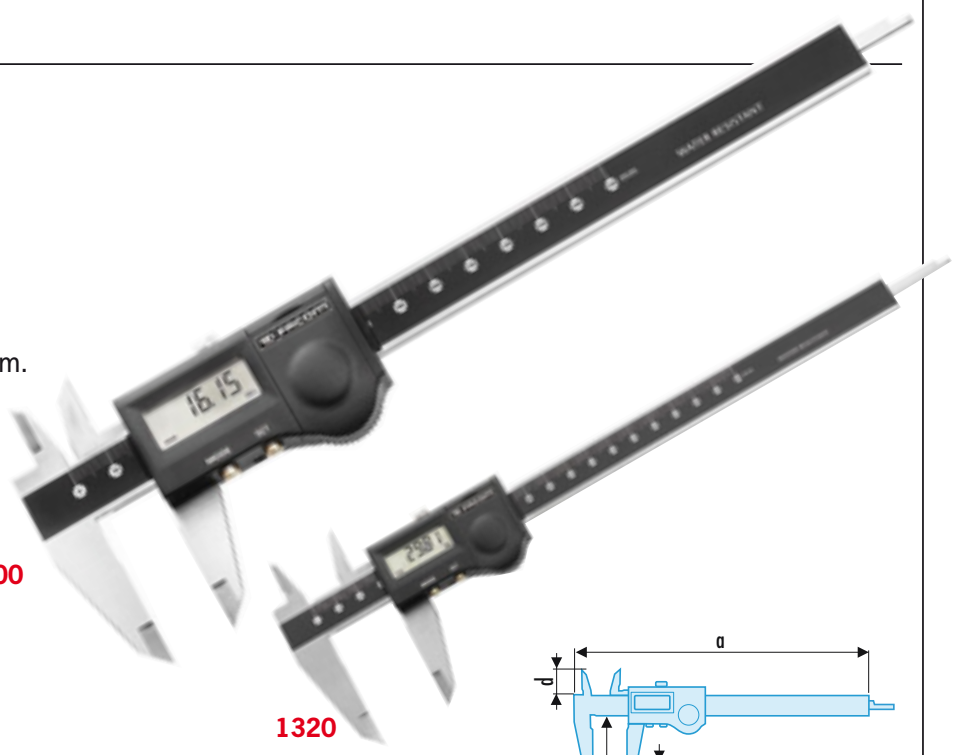
1300 - 1320 Digital calipers

▷ To DIN 862.

- Accuracy 0.01 mm.
- Resistant to water and cutting oil - IP 65.

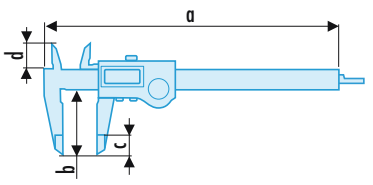
- IP 6x = No dust penetration.
- IPx5 = Protected against water jets from any direction during 3 minutes.

- Ground stainless steel mechanism.
- Reading rule with patented inductive measuring system.
- Flat depth gauge.
- 6 mm LCD display.
- Floating zero.
- mm/inch conversion.
- Automatic shutoff.
- Battery life approximately 3,500 hours
- Supplied in a case with a certificate of conformity.
- RS 232 port.



1300

1320



	Capacity mm	Resolution mm	Repeatability mm	Bias error µm	a mm	c mm	d mm	b mm	ΔΔ g
1300	150	0,01	10µm	20µm	233	10	16	40	465
1320	200	0,01	10µm	30µm	290	14	20	50	400

	Description
1300.C2	PC connection cable
Gagewedge	Data transmission software - via cable 1300.C2 Available from www.facom.com or upon request

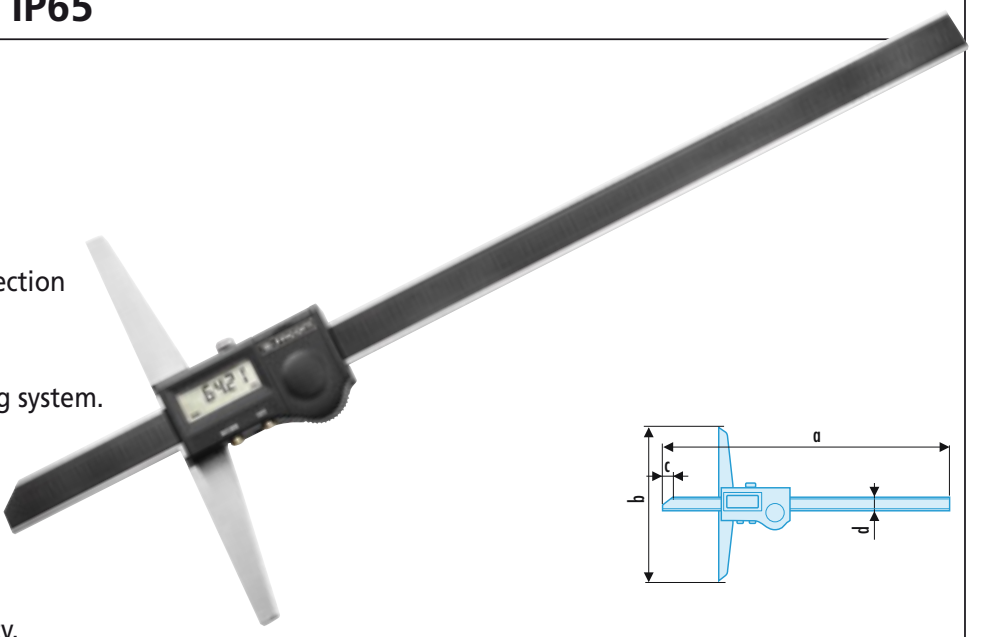
Digital depth gauge

New

Digital depth gauge 300 mm - IP65

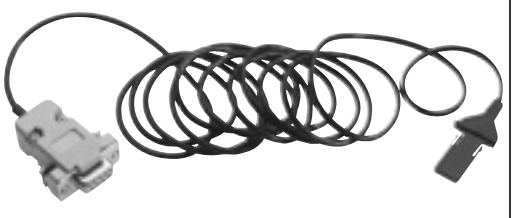
1350

▷ To DIN 862.
• Accuracy 0.01 mm.
• Resistant to water and cutting oil - IP 65.
- IP 6x = No dust penetration.
- IP x5 = Protected against water jets from any direction for 3 minutes.
• Ground stainless steel mechanism.
• Reading scale with patented inductive measuring system.
• 6 mm LCD display.
• Floating zero.
• mm/inch conversion.
• Automatic shutoff.
• Battery life approximately 3,500 hours.
• Supplied in a case with a certificate of conformity.
• RS 232 port.



	Capacity mm	Resolution mm	Repeatability mm	Bias error µm	a mm	b mm	c mm	d mm	⚖ g
1350	300	0,01	10µm	20µm	372	150	10	16	928

	Description
1300.C2	PC connection cable
Gagewedge	Data transmission software - via cable 1300.C2 Available from www.facom.com or upon request



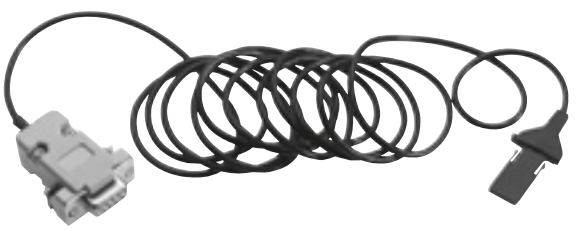
Digital micrometer

Outside digital micrometer 0-25 mm

1355

▷ DIN 863.
• Floating zero.
• Preset.
• Metric/inch units.
• MAX, MIN, MAX-MIN tolerances.
• RS 232 port.
• Design features :
- non-rotating setting rod.
- carbide anvil ∅ 8 mm.
• Battery life up to 2,000 hours.
• Accuracy 0.002 mm.
• Supplied with a FACOM certificate of conformity.
⚖ : 810 g.

	Description
1300.C2	PC connection cable
Gagewedge	Data transmission software - via cable 1300.C2 Available from www.facom.com or upon request



Digital indicator

Digital indicator - IP51

1365

▷ To DIN 878.
• Measuring range 0-12.5 mm.
• Accuracy 0.001 mm.
• mm/inch conversion.
• 6 mm LCD display.
• Clamping stem (8 mm dia.)
• Interchangeable M2.5 contact points.
• Display pivots through 270.
• Floating zero.
• Zero set at any position.
• Allows measurements to be made using 2 separate references.
• Measurement memorisation (display hold).
• RS 232 connection - For transmitting reading to a statistical processing system.
• Supplied with a FACOM certificate of conformity.
⚖ : 213 g.

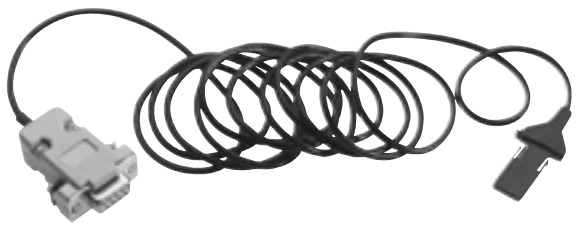
	Description
1300.C2	PC connection cable
Gagewedge	Data transmission software - via cable 1300.C2 Available from www.facom.com or upon request

Accessories

PC connection cable

1300.C2

• This cable can be used to connect the various items of metrology equipment to a PC.
⚖ : 55 g.



Mechanical metrology

Vernier calipers

MECHANICAL METROLOGY

IMPROVED PERFORMANCE

Compliance with DIN 862
- Dimensional regulation.
- Hardness of measuring faces.
- Accuracy and limit of error in µm.
- Standard of quality and readability of graduations.

Technical specifications
- Ground stainless steel
- Lock screw for reliable readings without risk of slippage.
- Vernier with guide.
- Natural hand position.
- Increased comfort.

Perfect reading quality
- Good contrast and anti-reflection.
- Excellent readability.
- Chemically formed graduation markings for perfect resistance to wear and chemical agents.

Accuracy
- To 1/50 - 1/20 - 1/10 mm.

Traceability
- Supplied with a numbered certificate of conformity.

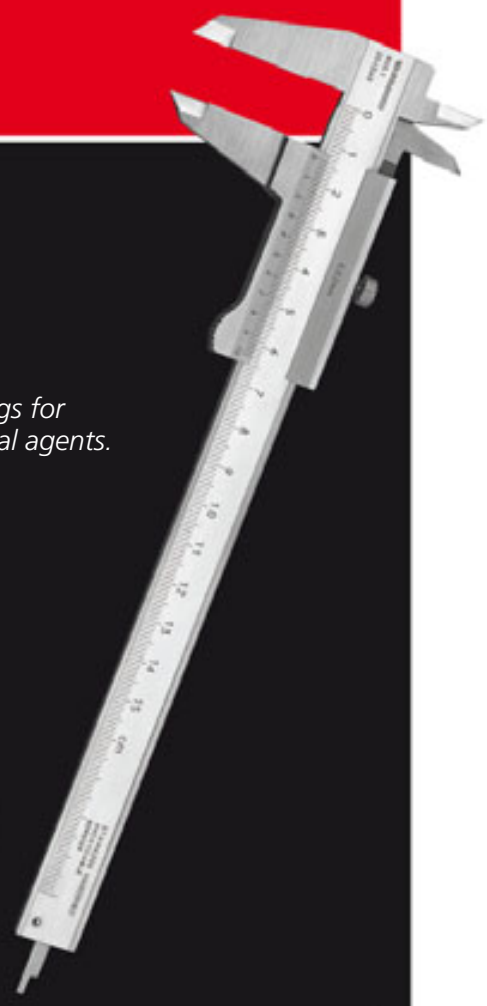
Outside measurement.

Inside measurement.

Step measurement.

Depth measurement.

Throat measurement.

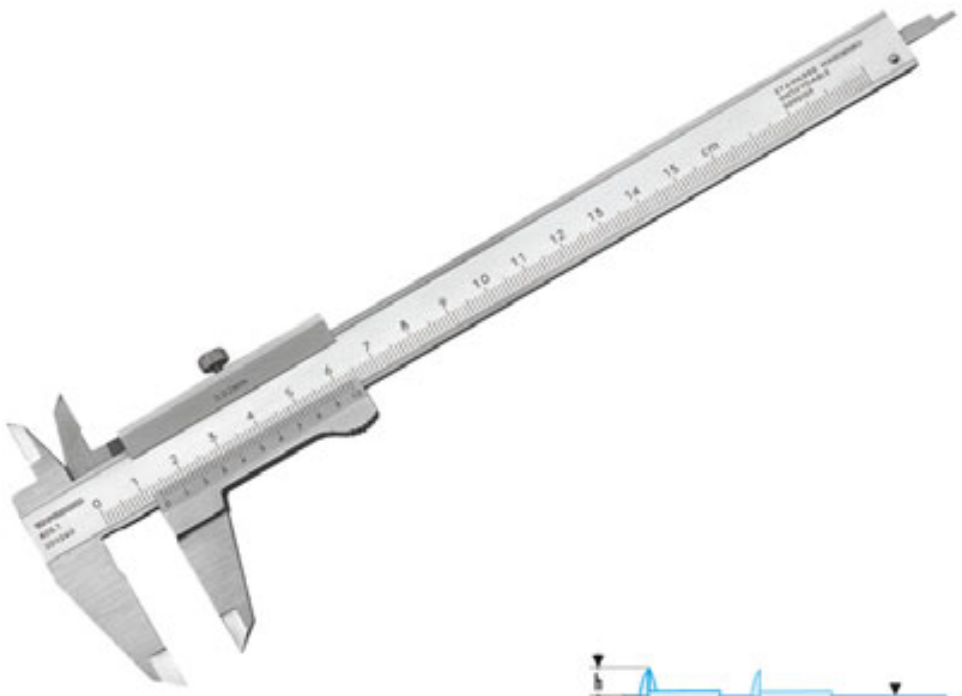


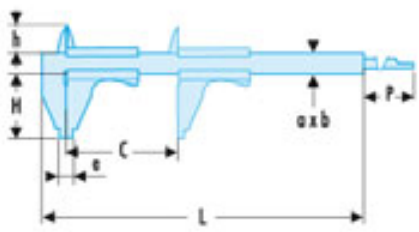
Extra service

Have your measuring instruments inspected each year by an accredited organisation to guarantee their accuracy.

805 Universal vernier caliper to 1/50 mm

▷ DIN 862.
- Class 0.
- Accurate to 0.02 mm (1/50 mm).
- Inside, outside and depth measurements.
- Matt stainless steel rule.
- Minimum rule hardness 40 HRc.
- Flat depth gauge.
- Vernier with thumb positioning guide.
- Minimum vernier life expectancy 20,000 cycles.
- Vernier screw lock.
- Supplied in a case with a certificate of conformity.



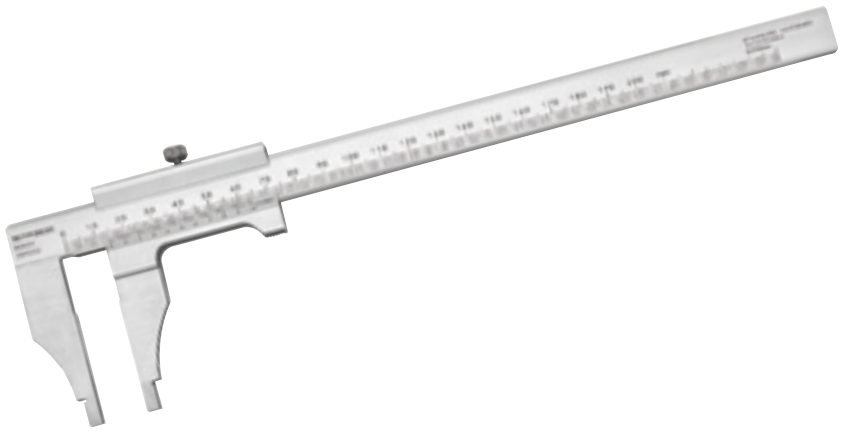


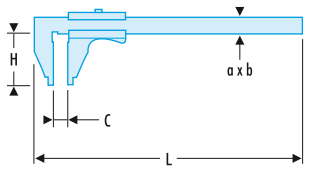
	Accuracy mm	Bias error µm	a x b mm	C mm	H mm	L mm	ΔΔ g
805.1	0,02	20µm	16 x 3	150	40	228	290
805.2	0,02	30µm	17x3,5	200	50	290	419

Workshop vernier caliper to 1/50 mm

805.M

▷ DIN 862.
- Class 0.
- Accurate to 0.02 mm (1/50 mm).
- Measuring range 200 mm.
- Inside and outside measurements (down to 10 mm bores).
- Matt stainless steel rule.
- Minimum rule hardness 40 HRc.
- Vernier with thumb positioning guide.
- Minimum vernier life expectancy 20,000 cycles.
- Vernier screw lock.
- Graduations resistant to chemical products.
- Perfect contrast for optimum reading quality.
- Supplied in a case with a certificate of conformity.



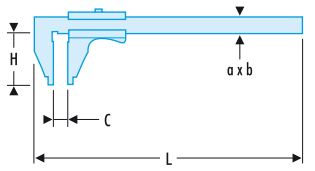


	Accuracy mm	Bias error µm	a x b mm	C mm	L mm	H mm	⚖ g
805.M	0,02	30µm	17x3,5	200	290	60	423

Workshop vernier caliper to 1/50 mm - 300 mm capacity

805.S

▷ DIN 862.
- Accurate to 0.02 mm (1/50 mm).
- Measuring range 200 mm.
- Inside and outside measurements (down to 10 mm bores).
- Matt stainless steel rule.
- Minimum rule hardness 40 HRc.
- Vernier with thumb positioning guide.
- Minimum vernier life expectancy 20,000 cycles.
- Vernier screw lock.
- Fine adjustment screw.
- Supplied in a case with a certificate of conformity.

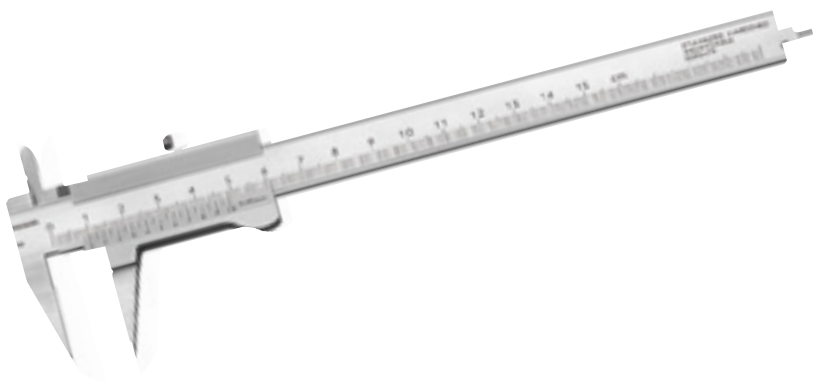


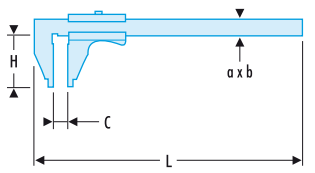
	Accuracy mm	Bias error µm	a x b mm	C mm	H mm	L mm	⚖ g
805.S	0,02	30µm	20 x 4	200	100	418	941

Universal vernier caliper to 1/20 mm

816

▷ DIN 862.
- Accurate to 0.05 mm (1/20 mm).
- Inside, outside and depth measurements.
- Matt stainless steel rule.
- Minimum rule hardness 40 HRc.
- Flat depth gauge.
- Vernier with thumb positioning guide.
- Minimum vernier life expectancy 20,000 cycles.
- Vernier screw lock.
- Supplied in a case with a certificate of conformity.





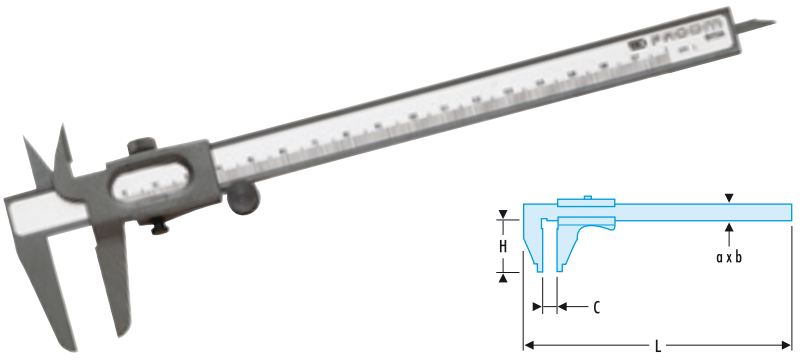
	Accuracy mm	Bias error µm	a x b mm	C mm	L mm	H mm	⚖ g
816	0,05	50µm	16 x 3	150	228	40	288

Mechanical metrology

Pocket vernier caliper to 1/10 mm

815A

- Inside, outside and depth measurements.
- Screw lock.
- Thumbscrew adjustment.
- Matt rule.
- Supplied in an individual FACOM wallet.

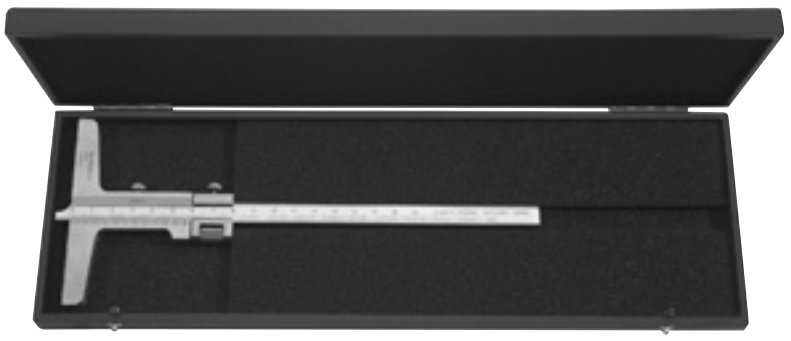


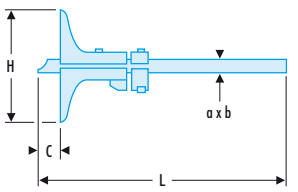
	Reading mm	a x b mm	C mm	L mm	H mm	g
815A	0,1	15 x 2	160	230	37	120

Mechanical depth gauge

811 Mechanical depth gauges to 1/50 mm

▷ DIN 862.
- Class 0.
- Accurate to 0.02 mm (1/50 mm).
- Matt stainless steel rule.
- Minimum rule hardness 40 HRc.
- Measuring faces hardened to minimum 53 HRc.
- Vernier with thumb positioning guide.
- Minimum vernier life expectancy 20,000 cycles.
- Vernier locked by fine adjustment screw.
- Supplied in a case with a certificate of conformity.





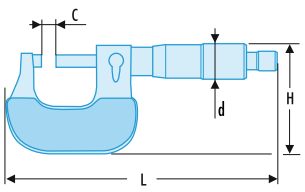
	Accuracy mm	Bias error µm	a x b mm	C mm	H mm	L mm	g
811B	0,02	20µm	10 x 4	160	100	240	465
811C.250	0,02	30µm	10 x 4	250	100	330	491

Mechanical micrometer

806 Micrometers to 1/100 mm

▷ DIN 863.
- Resolution 0.01 mm.
- Carbide anvil 6.5 mm dia.
- Ratchet thimble with torque limiter :
- Strictly limits the maximum force applied to the measured component to between 5 and 10 Nm.
- Thimble diameter 18 mm.
- 50-division thimble (one turn = 0.5 mm).
- Heat-insulating plates.
- Supplied complete with :
- a pin-type calibration key.
- a gauge block key from model 806C.50.
- Packaged in a plastic case.
- Supplied with a certificate of conformity.

	Measuring range mm	Bias error µm	Parallelism of measuring faces	Flatness of measuring surfaces/Max.
806.C25	0-25 mm	4µm	2µm	0,4µm
806C.50	25-50 mm	4µm	2µm	0,4µm
806C.75	50-75 mm	5µm	3µm	0,4µm
806C.100	75-100 mm	5µm	3µm	0,4µm

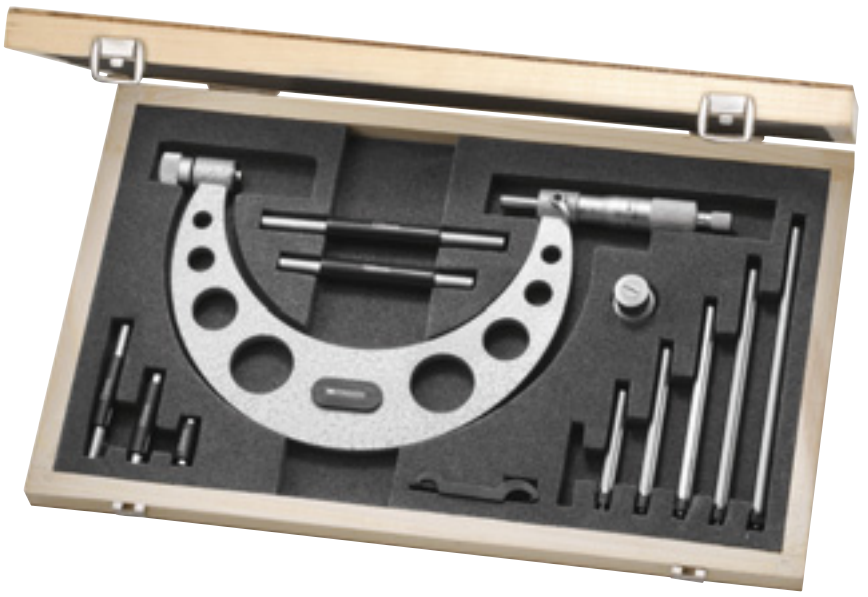


	Measuring range mm	Gauge block
806.C25	0-25 mm	
806C.50	25-50 mm	25 mm +/- 1,5µm
806C.75	50-75 mm	50 mm +/- 2µm
806C.100	75-100 mm	75 mm +/- 2,5µm

Multi-range mechanical outside micrometer to 1/100 mm

807C

▷ DIN 863.
• Measuring range 0 to 150 mm.
• Resolution 0.01 mm.
• Ratchet thimble with torque limiter.
• Strictly limits the maximum force applied to the measured component to between 5 and 10 N.m.
• Thimble diameter 18 mm.
• Carbide anvil 6.5 mm dia.
• Interchangeable fixed anvil.
• Set of 6 extensions.
• Heat-insulating plates.
• Anvil locking device.
• Packaged in a wooden case.
• Supplied with a certificate of conformity.



	Gauge block
807C.CALE25	25 mm +/- 1,5µm
807C.CALE50	50 mm +/- 2µm
807C.CALE75	75 mm +/- 2,5µm
807C.CALE100	100 mm +/- 3µm
807C.CALE125	125 mm +/- 3,5µm

Friction mechanical outside micrometer to 1/100 mm

806.F

▷ DIN 863.
• Resolution 0.01 mm.
• Carbide anvil 6.5 mm dia.
• Ratchet thimble with torque limiter.
• Strictly limits the maximum force applied to the measured component to between 5 and 10 N.m.
• Thimble diameter 18 mm.
• Anvil locking device.
• Packaged in a plastic case.
• Supplied with a certificate of conformity.

	Capacity mm	Parallelism of measuring faces	Flatness of measuring surfaces/Max.	Bias error µm
806.F	0-25	2µm	0,4µm	4µm

Metrology module

Metrology module

MOD.MET

• 805.1 Vernier caliper to 1/50 mm, capacity 150 mm.
• 806.F Micrometer to 1/100 mm, range 0 to 25 mm.
• 814.M Screw pitch gauge, 23 blades from 25 to 300.
• 804 Metric feeler gauges from 4/100 to 1 mm.
• Tray PL.634.
⚖ : 0.930 kg.

Metrology set

8-piece metrology and inspection set

809.J2

• Comprising :
- 805.M Vernier caliper to 1/50 mm, capacity 200 mm.
- 803.300M Stainless rule 300 mm.
- 811 Depth gauge to 1/50 mm, capacity 160 mm, fine adjustment screw.
- 818B.15 Plain square 150 mm, class I.
- 236 Carbide scriber.
- 256.4 Centre punch.
- 806.C25 Micrometer to 1/100 mm, range 0 to 25 mm.
- 1901.05 Dividers, capacity 150 mm.

• Supplied in a case 365 x 260 x 30 mm.
⚖ : 2.1 kg.

10-piece metrology and inspection set

809.J3

• Comprising :
- 805.M Vernier caliper to 1/50 mm, capacity 200 mm.
- 806.C25 Micrometer to 1/100 mm, range 0 to 25 mm.
- 806C.50 Micrometer to 1/100 mm, range 25 to 50 mm.
- 811 Depth gauge to 1/50 mm, capacity 160 mm, fine adjustment screw.
- 818B.15 Plain square 150 mm, class I.
- 819B.15 Flanged square 150 mm, class I.
- 1901.05 Dividers, capacity 150 mm.
- 236 Carbide scriber.
- 803.300M Stainless rule 300 mm.
- 256.4 Centre punch.

• Supplied in a case 410 x 280 x 40 mm.
⚖ : 3.56 kg.

Dial indicator

Dial gauge to 1/100 mm

812A.1

• Plunger travel 10 mm with totalizing pointer.
• Rotating scale ∅ 57 mm.
• Interchangeable stylus.
• Flat back can be replaced by back fitted with 8 mm lug.
⚖ : 345 g.

	Description
812.PF	Back fitted with lug
812A.1A	Steel ball stylus
812A.1B	Flat stylus ∅ 2 mm tip
812A.1C	Long stylus ∅ 2 mm, effective length 15 mm

Shock-resistant gauge to 1/100 mm

812.ANT

• Similar design to 812A.1.
• Shock resistant to protect mechanism.
• Tolerance adjustment.
⚖ : 335 g.

	Description
812.PF	Back fitted with lug
812A.1A	Steel ball stylus

Dial gauge to 1/100 mm with lever

812.P

- Travel 0.8 mm.
- Rotating scale ∅ 31 mm.
- Supplied with 2 mounting stems ∅ 4 and 8 mm.
- Anvil ∅ 2 mm.

⚖ : 154 g.

	Description
812.PF	Back fitted with lug
812A.1C	Long stylus ∅ 2 mm, effective length 15 mm

Magnetic bases

Magnetic stand

812.2

- Magnetic base with screw. Ground surfaces.
- Adherence force 300 N (30 kg).
- Post height 245 mm.
- Beam height range 40 to 210 mm.
- Base 52 x 40 x 47 mm.

⚖ : 1.52 kg.

Hinged magnetic stand

812.3

- Effective radius 280 mm.
- Vertical lifting force 600 N (60 kg).
- ∅ M8 thread.
- Base 50 x 55 x 60 mm.

⚖ : 1.9 kg.

Surface gauges

Precision surface gauge to 1/50 mm - 300 mm capacity

796B

▷ NF E 11 - 106.

- Class 0.
- Bias error = +/- 28µm.
- Repeatability error = +/- 12µm.
- Accurate to 0.02 mm (1/50 mm).
- Hardened stainless steel rule, anti-glare matt finish.

- Section 25 mm.
- Minimum rule hardness 40 HRc.

- Maximum measuring capacity 300 mm.
- Stainless scriber.

- Minimum hardness 53 HRc.
- Better scribing quality.

- Fine adjustment screw.
- Adjustable magnifying lens.
- Dial gauge attachment supplied as standard for gauge with 8 mm dia. stem (DIN 878).
- Total overall dimensions 455 mm x 90 mm.
- Supplied with a certificate of conformity.

⚖ : 3.280 kg.

	Serial no.	Description
796B.04	A02 0001→ mars 01	Scriber
796C.04	A03 0001 → A04 0001 →	Scriber

Mechanical metrology

Engineers surface gauge

795A

- Non-graduated.
- Fine adjustment screw on rocker arm.
- Cast-iron base.
- True face with 90° vee-groove.
- Post ∅ 10 mm.

⚖ : 1.745 kg.

Surface plates

1200 Cast-iron surface plates

▷ DIN 876, Class II.

	Dimensions mm	⚖ kg
1200.30	300 x 200	7
1200.40	400 x 250	16
1200.50	500 x 300	22
1200.60	600 x 400	35

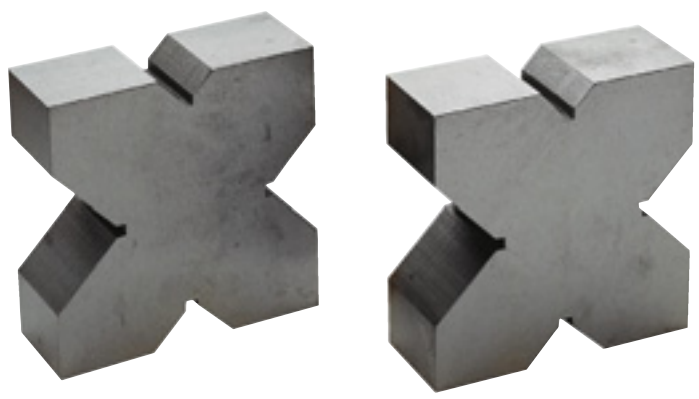
Pairs of vees

1202.00 Pairs of steel vees, 20 microns

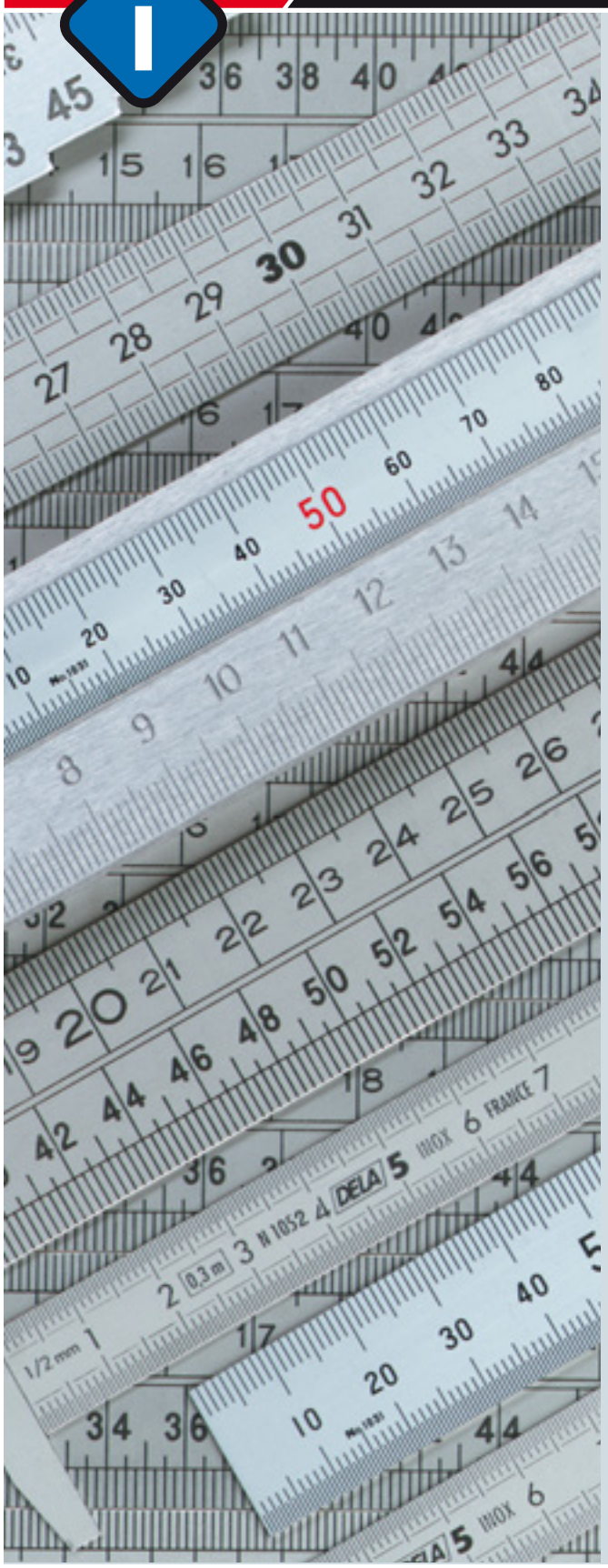
▷ ISO 8512-1, DIN 876-2.

- Vee-blocks with four 90 notches.
- Matching pair with identification number stamped on top.

	Vee widths mm	Overall size mm	⚖ kg
1202	30 x 40 x 50 x 60	120 x 120 x 38	7,371
1202.00	20 x 30 x 40 x 50	95 x 70 x 35	2,808



Rules



A FACOM SPECIALITY ? RIGOROUS EXPERTISE

Tight production control

Rigorous selection of materials guaranteeing the highest quality

- Compromise between rigidity and flexibility
- Matt surface for perfect readability
- Smooth finish for fine, clean markings

Chemical engraving

- Deep markings
- Perfect contrast
- Resistant to wear and chemical agents

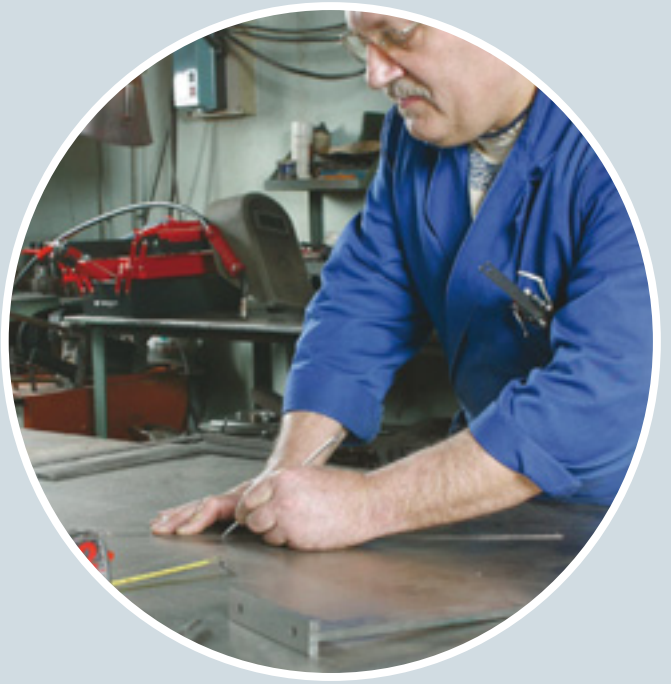
A range of over 50 references

- Stainless steel or duralumin
- Rigid, semi rigid, flexible
- Graduation mm - 1/2mm

Information

European directive 2004/22/EC, necessary harmonisation and change

Measuring Instrument Directive - Annex MI-008 - material measures. Harmonisation of the regulations for the 25 member States. Entry into force in France on 30 October 2006. Gradual implementation as pattern approvals expire.
NB : Only measurements > 500 mm are considered in legal metrology (OIML 35). No pattern and and regulatory marking approvals are required for measurements < 500 mm.



Class I stainless steel rules with calibration certificate

Class I stainless steel rules with calibration certificate

Like metrology and torque-control instrumentation, measuring tools are often used in quality-certification procedures. Facom class I stainless-steel rules, with Cofrac-approved calibration certificate, are suitable for this application.

These rules may be utilized as a standard for periodic inspection of rules and tapes by a quality-control department, or for direct measurement. Calibrated rules are measured at 10 cm intervals, numbered and supplied complete with their certificate.

Class I stainless steel rule - 1,000 mm long

DELA.61058.10C

Etched on one side.
1 edge in mm.
18 % Cr - 8 % Ni.
Anti-glare finish.

	Length mm	Cross-section mm	g
DELA.61058.10C	1000	30 x 1	191

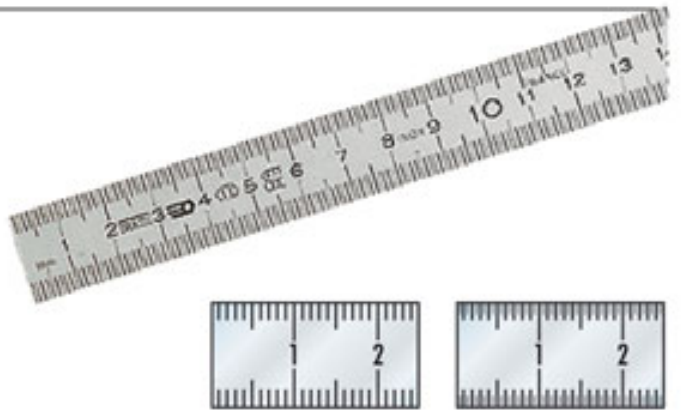
Class II rules

803 Flexible stainless 2-sided rules

- Etched on both sides, except 803.1000M (etched on 1 side, upper edge in 1/2 mm, lower edge mm).
- 1 side mm on both edges - 1 side 1/2 mm.
- 18 % Cr - 8 % Ni.
- Anti-glare matt satin finish.

* Rules of 500 mm or more conform to precision class II regulations.

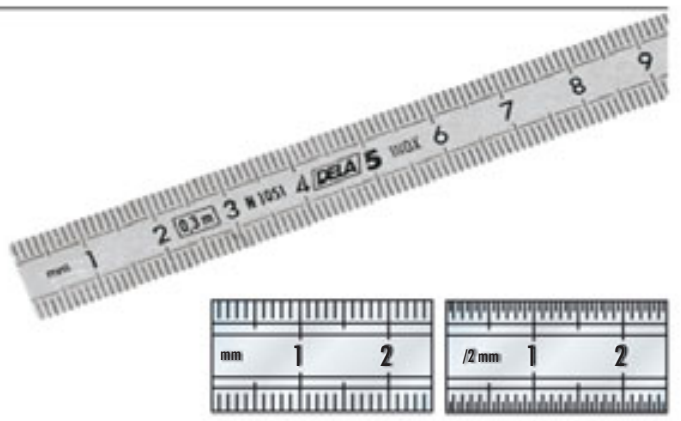
	Length mm	Cross-section mm	g
803.200M	200	13 x 0,4	10
803.300M	300	13 x 0,5	16
803.500M	500	20 x 0,5	40
803.1000M	1000	25 x 0,5	100



DELA.1051 Flexible stainless 2-sided rules

- Etched on both sides.
- 1 side mm both edges, 1 side 1/2 mm.
- 18 % Cr - 8 % Ni.
- Anti-glare finish.

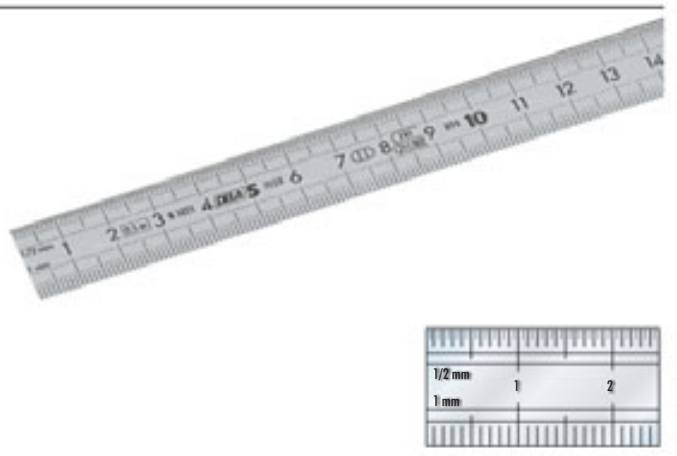
	Length mm	Cross-section mm	g
DELA.1051.02	150	13 x 0,5	8,5
DELA.1051.03	200	13 x 0,5	10,9
DELA.1051.04	250	13 x 0,5	13,5
DELA.1051.05	300	13 x 0,5	16,1
DELA.1051.06	500	20 x 0,5	40,4



DELA.1021 Flexible stainless 1-sided rules

- Etched on one side.
- 1 edge mm, 1 edge 1/2 mm.
- 18 % Cr - 8 % Ni.
- Anti-glare finish.

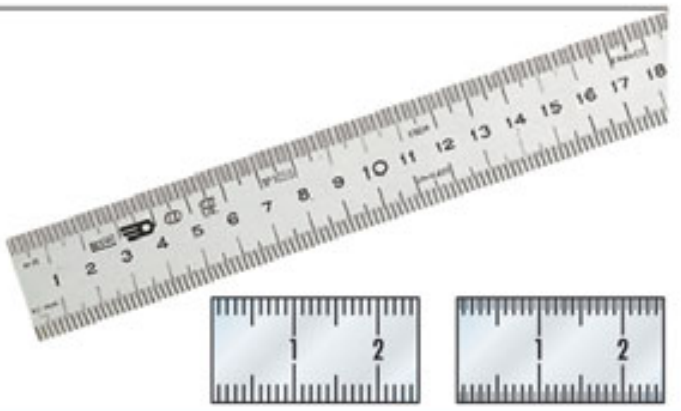
	Length mm	Cross-section mm	g
DELA.1021.02	150	13 x 0,5	8,5
DELA.1021.03	200	13 x 0,5	10,9
DELA.1021.05	300	13 x 0,5	16,1
DELA.1021.06	500	20 x 0,5	40,4
DELA.1021.07	1000	25 x 0,5	100
DELA.1021.08	1500	25 x 0,5	152
DELA.1021.09	2000	25 x 0,5	200



803 SR Semi-rigid stainless 2-sided rules

- Etched on both sides, except 803.SR1000 (1 side).
- 1 edge mm, 1 edge 1/2 mm.
- 18 % Cr - 8 % Ni.
- Anti-glare matt satin finish.

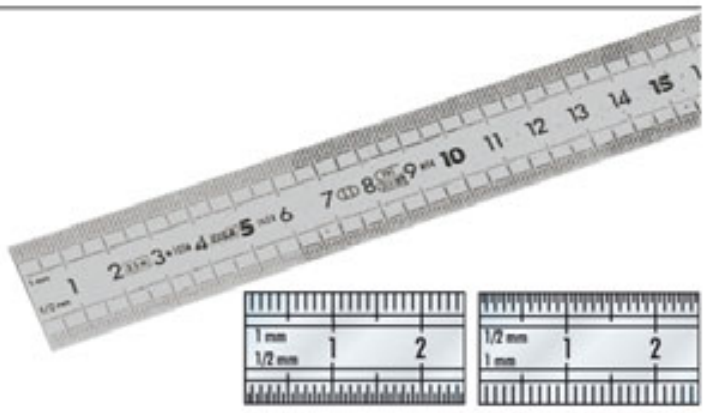
	Length mm	Cross-section mm	g
803.SR300	300	30 x 1	62
803.SR500	500	30 x 1	100
803.SR1000	1000	30 x 1	200



DELA.1056 Semi-rigid short stainless 2-sided rules

- Etched on both sides.
- 1 edge mm, 1 edge 1/2 mm.
- 18 % Cr - 8 % Ni.
- Anti-glare finish.

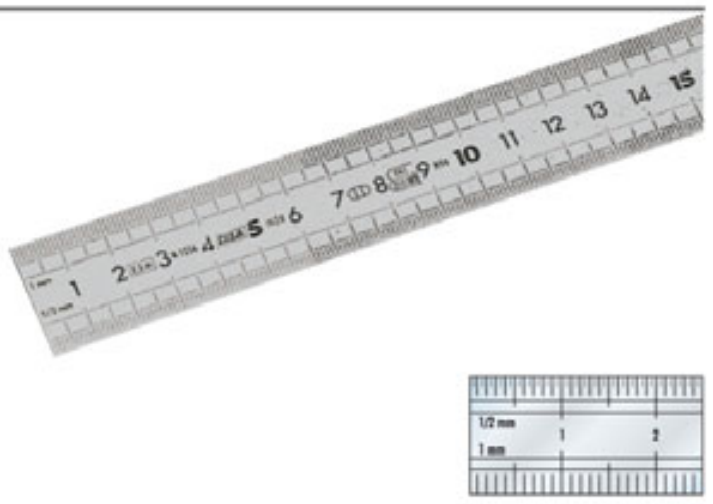
	Length mm	Cross-section mm	g
DELA.1056.01	300	30 x 0,8	60
DELA.1056.02	500	30 x 0,8	100



DELA.1056 Semi-rigid long stainless 1-sided rules

- Etched on one side.
- 1 edge mm, 1 edge 1/2 mm.
- Graduations in mm on both edges at 3,000, 4,000 and 5,000 mm.
- 18 % Cr - 8 % Ni.
- Anti-glare finish.

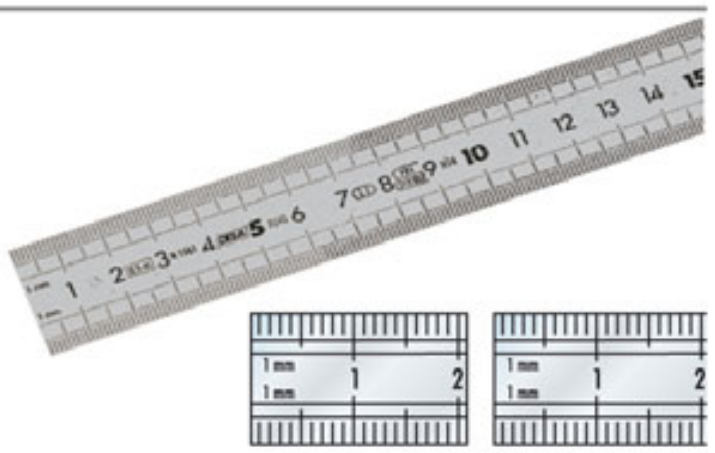
	Length mm	Cross-section mm	kg
DELA.1056.03	1000	30 x 0,8	0,191
DELA.1056.04	1500	30 x 0,8	0,290
DELA.1056.05	2000	30 x 0,8	0,380
DELA.1056.06	3000	30 x 1,0	0,709
DELA.1056.07	4000	30 x 1,0	0,946
DELA.1056.08	5000	30 x 1,0	1,168



DELA.1061 Semi-rigid short duralumin 2-sided rules

- Etched on both sides.
- Both edges in mm.
- Anti-glare finish.

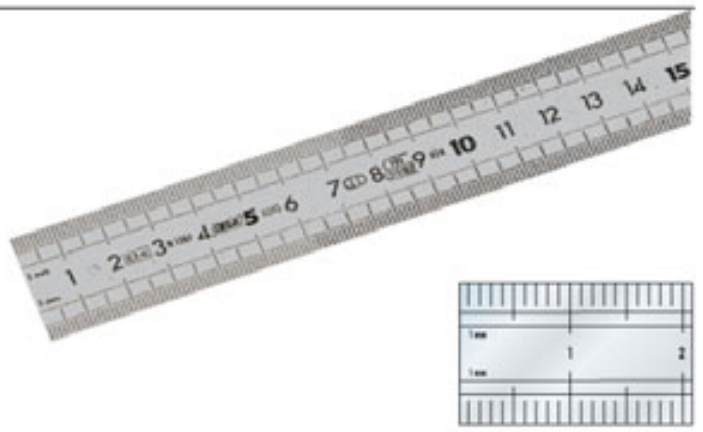
	Length mm	Cross-section mm	g
DELA.1061.01	300	30 x 1,2	33
DELA.1061.02	500	30 x 1,2	53



DELA.1061 Semi-rigid long 1-sided rules

- Etched on one side.
- Both edges in mm.
- Anti-glare finish.

	Length mm	Cross-section mm	g
DELA.1061.03	1000	30 x 1,2	110
DELA.1061.04	1500	30 x 1,2	150
DELA.1061.05	2000	30 x 1,2	200

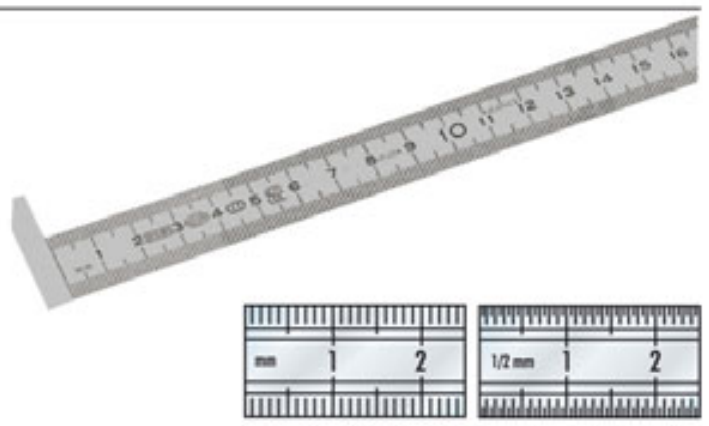


Assorted rules

DELA.1052 Stainless rules with heel

- Etched on both sides.
- 1 side mm, 1 side 1/2 mm.
- 18 % Cr - 8 % Ni.
- Anti-glare finish.

	Length mm	Cross-section mm	g
DELA.1052.02	200	13 x 0,5	12
DELA.1052.03	300	13 x 0,5	17
DELA.1052.04	500	20 x 0,8	44



Engineers rules

Stainless steel straight edge

809.IN500

▷ DIN 847/1, NF E 11.105
- Supplied in a wooden case.
- Class I, flatness. (4 + L/60) µm, where L is the length in mm.
- Stainless steel.

	L mm	Cross-section mm	⧍ kg
809.IN500	500	50 x 10	2,9

Graduated stainless rule

809.ING500

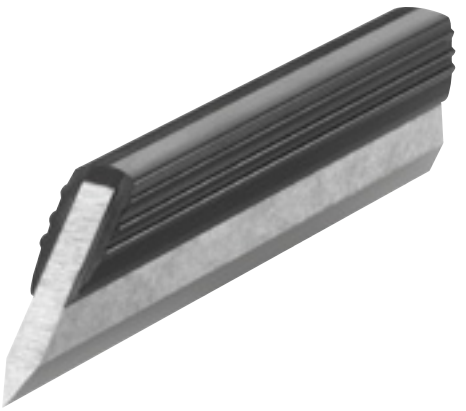
▷ DIN 874-1, NF E 11.105
- Supplied in a wooden case.
- Class I, flatness. (4 + L/60) µm, where L is the length in mm.
- Graduations with offset zero.

	L mm	Cross-section mm	⧍ kg
809.ING500	500	50 x 10	2,9

809 Stainless filament rules

▷ DIN 874, NF E 11.104
- For checking a plane or an edge.
- Hard stainless steel with insulating grip.
- Supplied in a sheath.

	Length mm	Flatness m	⧍ g
809.75	75	2	80
809.100	100	2	125
809.150	150	3	200
809.200	200	3	280



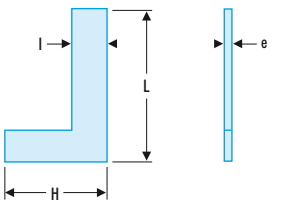
Precision measurement

Precision squares

818.CLO Precision try square, Class O

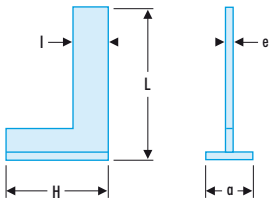
▷ DIN 875, NF E 11-103.
- Accuracy ± (5 + h/50) µm, where h is height in mm.
- Stainless steel.
- Ground faces and outside edges.

	L x H mm	l x e mm	⧍ kg
818.75CLO	75 x 50	15 x 5	0,140
818.100CLO	100 x 70	20 x 5	0,220
818.150CLO	150 x 100	28 x 6	0,455
818.200CLO	200 x 130	32 x 7	0,760
818.300CLO	300 x 200	40 x 8	1,765



819.CLO Precision flanged square, Class O

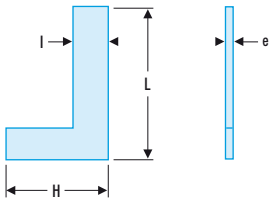
▷ DIN 875, NF E 11-103.
• Accuracy +/- (5 + h/50) µm, where h is height in mm.
• Stainless steel.
• Ground faces and outside edges.



	L x H mm	l x e mm	a mm	kg
819.75CLO	75 x 50	15 x 5	15	0,175
819.100CLO	100 x 70	20 x 5	20	0,280
819.150CLO	150 x 100	28 x 6	28	0,600
819.200CLO	200 x 130	32 x 7	32	1,095
819.300CLO	300 x 200	40 x 8	40	2,337

818B Try squares, Class I

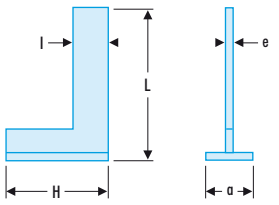
▷ DIN 875, NF E 11-103.
• XC12 steel square.
• Ground faces and edges.



	L x H mm	l x e mm	kg
818B.10	100 x 70	20 x 5	0,13
818B.15	150 x 100	25 x 6	0,24
818B.20	200 x 130	30 x 7	0,41
818B.30	300 x 180	30 x 7	0,88

819B Flanged squares, Class I

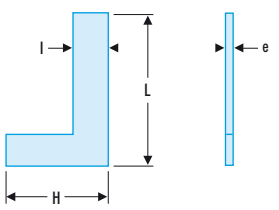
▷ DIN 875, NF E 11-103.
• Similar to try squares but with screwed flange.
• Supplied with a certificate of conformity.



	L x H mm	l x e mm	a mm	kg
819B.10	100 x 70	20 x 5	20	0,25
819B.15	150 x 100	25 x 6	25	0,47
819B.20	200 x 130	30 x 7	30	0,8
819B.25	250 x 160	30 x 7	30	0,98
819B.30	300 x 180	30 x 7	30	1,205

DELA.1256 90° try squares, Class II

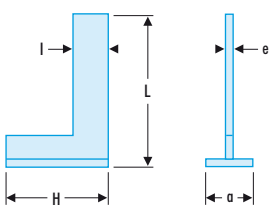
▷ DIN 875, NF E 11-103.



	L x H mm	l x e mm	kg
DELA.1256.02	100 x 70	20 x 5	0,125
DELA.1256.04	150 x 100	20 x 5	0,29
DELA.1256.06	200 x 130	30 x 7	0,515
DELA.1256.07	250 x 165	30 x 7	0,58
DELA.1256.08	300 x 200	30 x 7	0,7
DELA.1256.09	400 x 265	40 x 7	1,42
DELA.1256.10	500 x 330	40 x 7	1,8

DELA.1257 90° flanged squares, Class II

▷ DIN 875, NF E 11-103.
• Screwed flange.
• Perfect fit between flange and face.



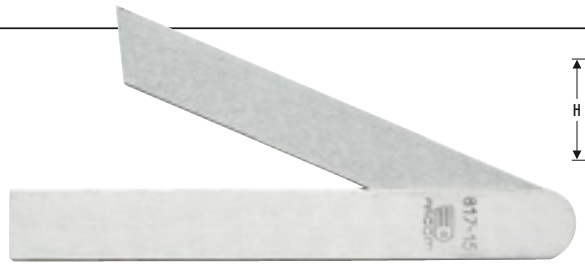
	L x H mm	l x e mm	a mm	kg
DELA.1257.02	100 x 70	20 x 5	20	0,2
DELA.1257.04	150 x 100	20 x 5	20	0,39
DELA.1257.06	200 x 130	30 x 7	30	0,715
DELA.1257.07	250 x 165	30 x 7	30	0,85
DELA.1257.08	300 x 200	30 x 7	30	1,02
DELA.1257.09	400 x 265	40 x 7	40	2
DELA.1257.10	500 x 330	40 x 7	40	2,6

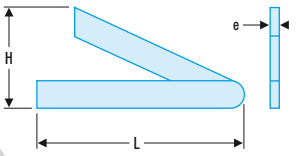
Squares

817 Bevels

• Steel. Ground faces and edges.

	e mm	H mini - maxi mm	L mm	⚖ g
817.15	15	19 - 145	150	350
817.20	15	24 - 195	200	580
817.25	15	24 - 240	250	720
817.30	15	24 - 285	300	810

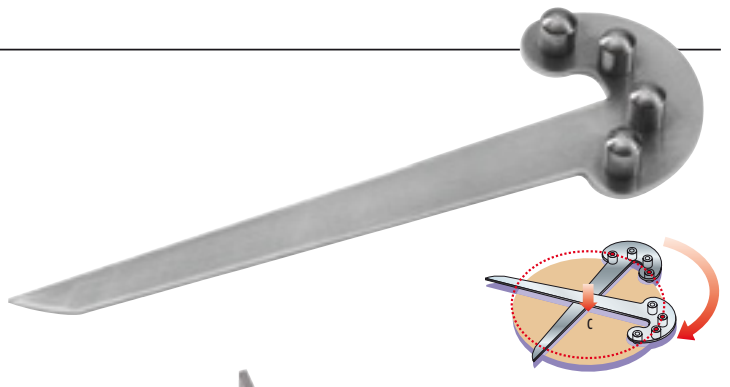




Centre-square

DELA.1290.00

• Steel square with 4 symmetrical pins.
• Locates the centre of a circle in 2 easy steps.
⚖ : 100 g.



DELA.1272 Flanged double-mitre square

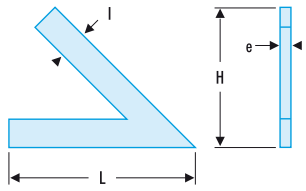
▷ DIN 875, NF E 11-103.
• 30, 45, 60, 90 angles.

	Long-blade length mm	⚖ g
DELA.1272.01	100	270
DELA.1272.02	120	310
DELA.1272.03	150	600
DELA.1272.04	200	720

45° flanged square

DELA.1292.00

	L x H mm	l x e mm	⚖ g
DELA.1292.00	150 x 150	26 x 7	324



Protractors

Engineers protractor

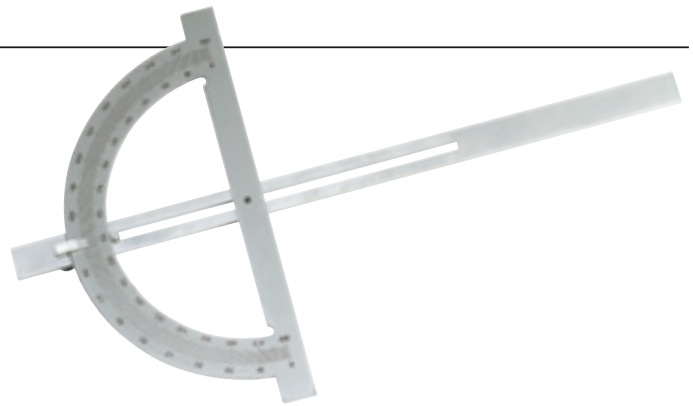
DELA.1885.00

• Ground stainless steel.
• Protractor base marked in mm.
• Graduated 0 to 180 in both directions.
• Protractor ∅ 85 mm.
• Rule length 170 mm.
• Sight-hole with pointer for easy readings.
⚖ : 50 g.

Wide-arc protractor

DELA.1880.00

• Rule length 400 mm.
• Hardened steel.
• Open protractor for angle readings 10 to 170.
• ∅ 200 mm protractor.
• Degree graduations.
• Sliding rule with locking screw.
⚖ : 420 g.



Basic bevel protractors

DELA.1897.02

- Stainless steel, without acute angle attachment.
- Accurate to within 5 minutes of arc.
- Length 300 mm.
- Supplied in a case 370 x 145 x 35 mm.

⚖ : 400 g.

Precision bevel protractor

813B.S

- Hardened stainless steel.
- Anti-glare matt chrome finish.
- Measuring range 0 to 360.
- Minimum vernier reading 5 minutes of arc.
- Dial diameter 70 mm.
- Dimensions 315 x 75 x 20 mm.
- Rotating dial with vernier and dial locking screw.
- 2 rules with bevelled ends at 45 and 60 :

- 1 short rule 20 mm x 16 mm.
- 1 long rule 300 mm x 16 mm.

- Offset rule 85 mm x 16 mm.
- Sliding rule locking screw.
- Magnifying lens.
- Cast iron support base 70 mm x 30 mm.
- Complete with a fitted rigid case 325 x 125 x 47 mm.

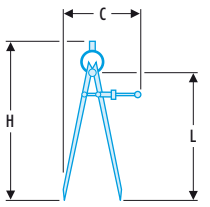
⚖ : 1.466 kg

Marking-out

Dividers, calipers, compasses

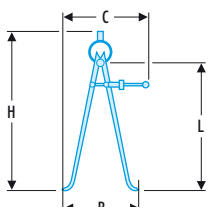
DELA.1901 Dividers

	L mm	H mm	B mm	C mm	⚖ g
DELA.1901.03	100	148	100	67	70
DELA.1901.04	125	165	125	77	80
DELA.1901.05	150	195	150	85	90
DELA.1901.07	200	245	200	100	160
DELA.1901.08	250	300	250	125	200
DELA.1901.09	300	350	300	140	240
DELA.1901.11	500	575	500	225	485



DELA.1902 Inside calipers

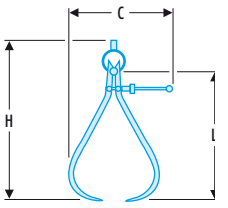
	L mm	H mm	B mm	C mm	⚖ g
DELA.1902.04	150	170	160	82	80
DELA.1902.06	200	225	210	100	165
DELA.1902.08	300	325	315	125	230



Marking-out

DELA.1903 Outside calipers

	L mm	H mm	B mm	C mm	⚖ g
DELA.1903.06	200	230	200	140	180
DELA.1903.07	250	280	250	165	210
DELA.1903.08	300	330	300	200	255

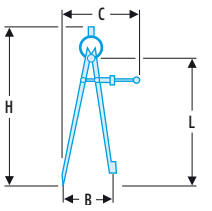


Pencil compass

DELA.1905.05

• Pencil ∅ 8 mm.

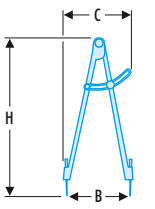
	L mm	H mm	B mm	C mm	⚖ g
DELA.1905.05	250	300	250	125	210



823 Wing dividers

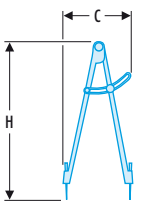
• Straight, rigid, polished steel legs, interchangeable hardened points.

	Points only	H mm	B mm	C mm	⚖ g
823.19	823.19SE1	190	220	70	235
823.25	823.25SE1	250	300	94	370



DELA.1908 Point wing dividers

	H mm	B mm	C mm	⚖ g
DELA.1908.03	220	220	68	180
DELA.1908.04	250	250	68	190



Scribers

Steel scriber

234

• Hardened chrome-vanadium steel tips.
• Tip ∅ 4 mm.
• Length 190 mm.
• Polished chrome finish.
⚖ : 20 g.

Scriber with interchangeable steel tips

234.S

• Hardened HSS tips.
• Tips ∅ 4 mm.
• Body ∅ 8 mm.
• Length 260 mm.
⚖ : 58 g.

	Description
234.SP2	Set of 2 spare tips.

Steel scriber

DELA.1586.00

- Plastic body.
- Tip ∅ 4 mm.
- Body ∅ 8 mm.
- Length 210 mm.

⚖ : 20 g.

Carbide pen scriber

DELA.1589.00

- Hexagonal steel body with clip.
- Regrindable tip, length 12 mm, ∅ 2.5 mm.
- Length 150 mm.

⚖ : 35 g.

Retractable carbide scriber

233A

- Body with clip.
- Double-dressed tungsten-carbide tip.
- Length 145 mm.
- Tip ∅ 2 mm.
- Body ∅ 8 mm.

⚖ : 16 g.

	Description
233.P5	Set of 5 spare tips

Monobloc carbide scriber

236

- Inset tungsten-carbide tip for marking hard surfaces ∅ 2 mm.
- Octagonal body ∅ 12 mm.
- Length 180 mm.

⚖ : 30 g.

Square tips

- Hardened steel point, square blade. Isoryl handle. For starting holes, chamfering, deburring, etc.

	Handle∅ x L mm	Length mm	Blade ⍁ x L mm	⚖ g
AP.6x80	30 x 110	190	6 x 80	72
AP.8x125	34 x 120	245	8 x 125	132

AP.8x125

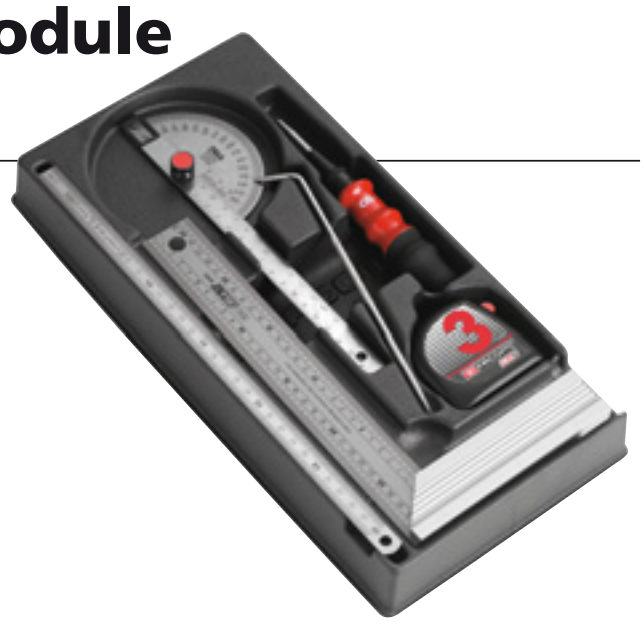
Measuring and marking-out module

Measuring and marking-out module

MOD.234

- 257G. Automatic centre punch.
- 234 Scriber.
- 893.316 Tape measure 3 m.
- DELA.1051.05 Rule 300 mm long.
- DELA.1885.00 Protractor.
- DELA.1223.02 Try and mitre square 300 mm long.
- Tray PL.633.

⚖ : 1.05 kg.



Short tape measures

European standards

MID 2004/22/EC - A PASSPORT FOR EUROPE

European Harmonisation
- Applicable in the 25 Member States.
- A common procedure for the verification, bringing into conformity and inspection of measuring instruments.

Scope
- Material measure comprising marks whose distances are given in legal units of length.
- Placing products on the market.
- Putting into use.

Entry into force
- 30 October 2006.
- Gradual implementation over a period of 10 years.

The main changes

Bringing into conformity
- The principle of quality assurance.
- Manufacturing process approval.
  - Includes the design and production phases.
  - The MID ensures that the products are manufactured under conditions
- guaranteeing the best quality.
- Choice of conformity modules according to :
  - Quality management system.
  - Expected flexibility of the manufacturing process.
  - Desired marketing flexibility.

Manufacturer's liability
- Assumes liability for product design and manufacture.
- Guarantees product compliance.
  - By applying CE marking.
  - By establishing declarations of conformity.

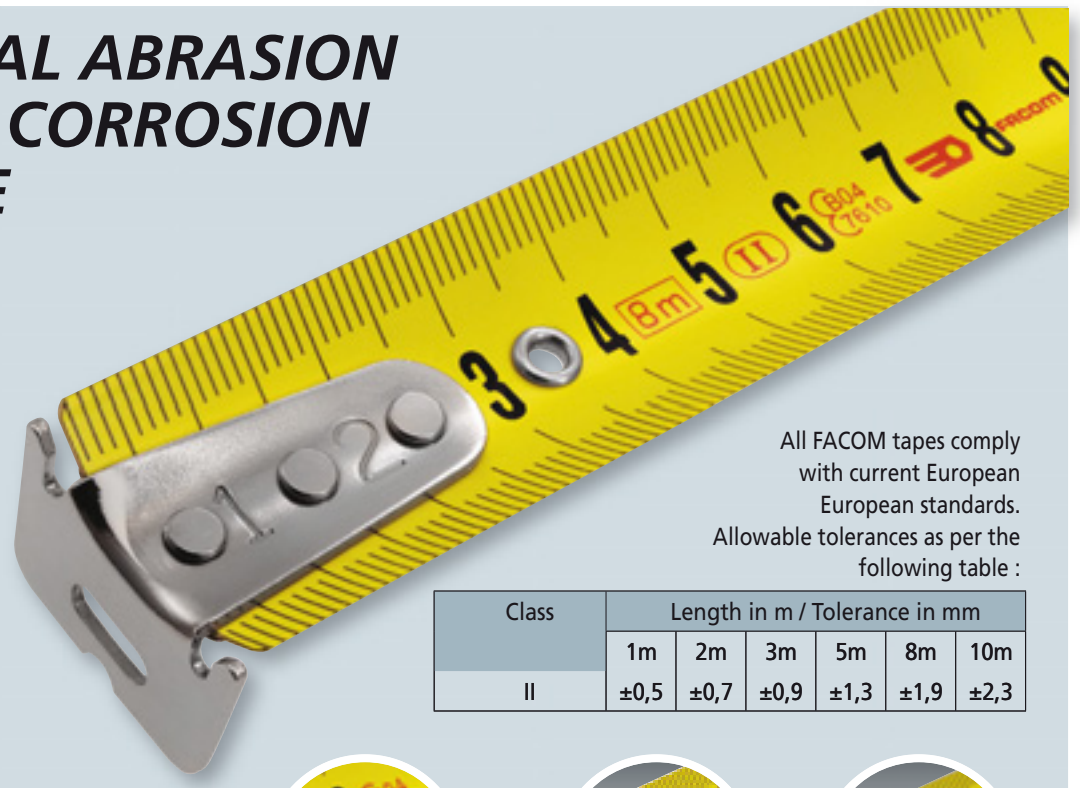
Regulatory markings

Length	Accuracy	Make	CE approval	M + the last two numbers of the year
5 M	II	FACOM	CE	M07
XXXX	T1001	20°	50N	
Certified body No. : 0122 for NMI	Type examination certificate No. (Only according to choice of module)	Information regarding normal conditions of use	Only for 5m long tape measures (does not apply to rigid or semi-rigid tape measures)	

Implementation transition period
- Does not concern EN tape measures already in use.
- Approval of current models
  - Replacement by MID when pattern approval is renewed.
- New products must comply with MID.

Short tape measures

EXCEPTIONAL ABRASION WEAR AND CORROSION RESISTANCE



Blade

- High protection nylon coating.
- Professional-quality blade for all uses, ideal for intensive use.
- Optimum readability. Matt anti-glare finish.

High rigidity

- Up to 2.90m vertically and 2.30m horizontally without bending for the 25mm wide blade.

Hook

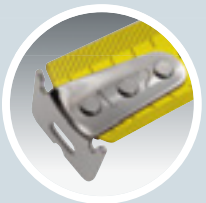
- Tensile strength exceeds 1,000 N (100 kg)
- Wide, protective hook.
- Hardened steel. Equipped with a stainless steel reinforcing plate. Sliding hook for hooking or internal and external measuring.

All FACOM tapes comply with current European European standards. Allowable tolerances as per the following table :

Class	Length in m / Tolerance in mm					
	1m	2m	3m	5m	8m	10m
II	±0,5	±0,7	±0,9	±1,3	±1,9	±2,3

Hardened, concave, carbon steel

High contrast, bold figures, differentiated graduations, red "tens" markers



Wide, hook

SELECTION GUIDE	Stainless steel case 897. nylon-coated blade	ABS case 893 nylon-coated blade	800 series stainless steel case, varnish-coated blade	ABS case 893F nylon-coated blade.Direct reading
2 M				
3 M				
5 M				**DIRECT READING : For directly measuring the distance between two faces. 893.316F**
8 M				
10 M				

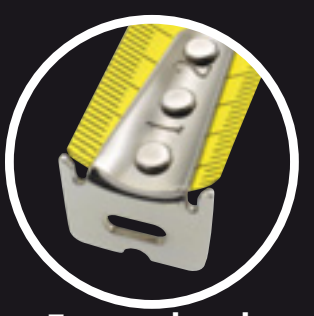
Stainless steel case series

New **SERIES 897**

PROFESSIONAL QUALITY STAINLESS STEEL AND BI-MATERIAL TAPE MEASURES

Blade lock
Ergonomic 2-position lock. Simple, effortless operation.

Soft coating
Comfortable, non-slip grip. Prevents shocks when dropped.
Stainless steel case.



Facom hook
Corner protection to prevent accidental cutting.
3 rivets for increased pulling resistance.

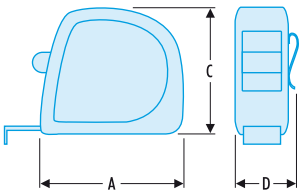
Belt clip
Stainless steel.

Facom blade
High performance nylon coating.

New

897 Stainless steel case tape measure

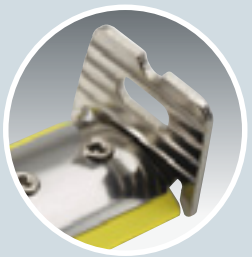
- Case with stainless steel reinforcing plate.
- Soft, heavy-duty, impact-resistant coating.
- Matt, anti-glare nylon-coated blade.
- Covering 3-rivet hook with stainless steel reinforcing plate.
- Horizontal and vertical blade rigidity : see table.
- Internal measurement obtained by adding dimension A (see table).
- Stainless steel belt clip.



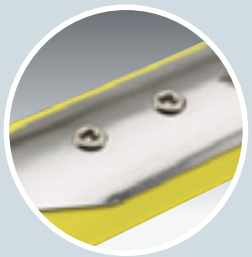
	l	L mm	A mm	D x C mm	Rigidity Max Vertical mm	Rigidity Max Horizontal m
897.216	2	16	70	32 x 64	1,6	1,5
897.319	3	19	70	32 x 64	2,2	1,9
897.525	5	25	78	41 x 72	2,8	2,4
897.825	8	25	90	40,5 x 82	2,8	2,4
897.1025	10	25	90	40.50x82	2,8	2,4

Heavy-duty hook

TENSILE STRENGTH EXCEEDS 1,000 N (100 KG)



Non-slip serrations.



With stainless steel reinforcing plate.

Multi rivets.

Wide hook with protective lugs. Multi-functional.

ABS Case Series

Series 893

COMPACT AND TOUGH

Easily accessible tape lock

For keeping a measurement, making comparative measurements, marking-out, etc.

Stainless steel belt clip

- For easy carrying.

Wrist strap hole

- Avoids dropping the tape, frees the hand. Hole (except 893.316F)

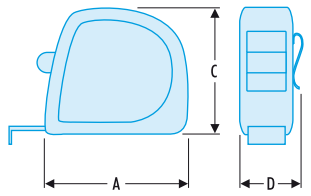
Functional case

- Base and bearing face at 90°. Rounded additional length.

ABS case tape measure - 2 metres with lock

893.213

- 2 m x 13 mm matt, anti-glare, nylon-coated blade.
- Blade rigidity : 1.30 m vertically - 1.20 m horizontally.
- 2-rivet hook with stainless steel reinforcing plate.
- Internal measurement obtained by adding dimension A (see table).
- Ergonomic ABS case.
- Blister card presentation (145x96 mm).

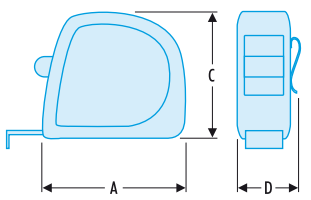


	m	mm	A mm	C x D mm	g
893.213	2	13	55	53 x 24	78

ABS case tape measure - 3 metres with lock

893.316

- 3 m x 16 mm matt, anti-glare, nylon-coated blade.
- Blade rigidity : 1.80 m vertically - 1.50 m horizontally.
- 2-rivet hook with stainless steel reinforcing plate.
- Internal measurement obtained by adding dimension A (see table).
- Ergonomic ABS case.
- Blister card presentation (145x96 mm).



	m	mm	A mm	C x D mm	g
893.316	3	16	60	60 x 27	126

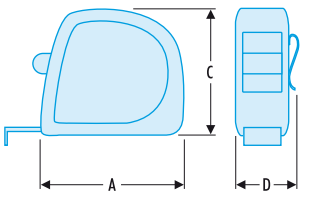
Short tape measures

ABS case tape measure - 3 metres top reading with lock

893.316F

- 3 m x 16 mm matt, anti-glare, nylon-coated blade.
- Printed on both sides, for directly reading internal measurements in the window.
- Covering 2-rivet hook with stainless steel reinforcing plate.
- Ergonomic ABS case.
- Blister card presentation (145x96 mm).

	m	mm	A mm	C x D mm	g
893.316F	3	16	60	60 x 27	121

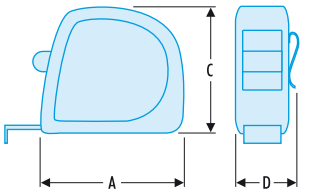


ABS case tape measure - 5 metres with lock

893.519

- 5 m x 19 mm matt, anti-glare, nylon-coated blade.
- Blade rigidity : 2.30 m vertically - 1.80 m horizontally.
- Covering 3-rivet hook with stainless steel reinforcing plate.
- Internal measurement obtained by adding dimension A (see table).
- Ergonomic ABS case.
- Blister card presentation (170x120 mm).

	m	mm	A mm	C x D mm	g
893.519	5	19	70	68 x 31	197

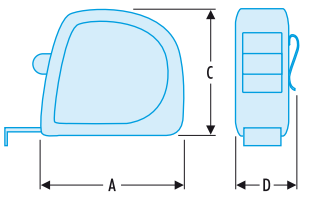


ABS case tape measure - 8 metres with lock

893.825

- 8 m x 25 mm matt, anti-glare, nylon-coated blade.
- Blade rigidity : 2.90 m vertically - 2.30 m horizontally.
- Covering 3-rivet hook with stainless steel reinforcing plate.
- Internal measurement obtained by adding dimension A (see table).
- Ergonomic ABS case.
- Blister card presentation (170x120 mm).

	m	mm	A mm	C x D mm	g
893.825	8	25	85	81,5 x 37,5	200

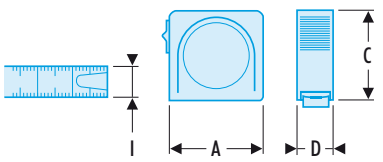


Metal Case Series

800A-801A "Stainless" 2, 3 metres

- 2-rivet blade
- 16 mm wide, rigid up to 1.10m
- Compact.

	m	mm	A mm	D x C mm	g
800A	2	16	50	21,4 x 50	90
801A	3	16	60	21,4 x 60	125



Metric and inch export series

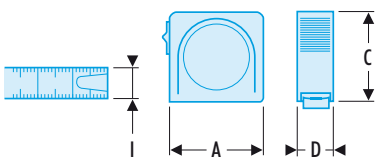
Ruban export mm/inches

- Hardened steel blade, concave for stiffness.
- Yellow background, protective coating.
- Identical casing to equivalent metric series.

800A-801A.EX 2, 3 metres - 6, 10 FEET

- Same specifications as 800A-801A series.

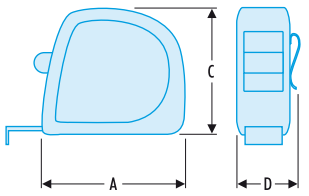
	m	ft	mm	A mm	D x C mm	
800A.EX	2	6	16	50	21,4 x 50	90
801A.EX	3	10	16	60	21,4 x 60	125

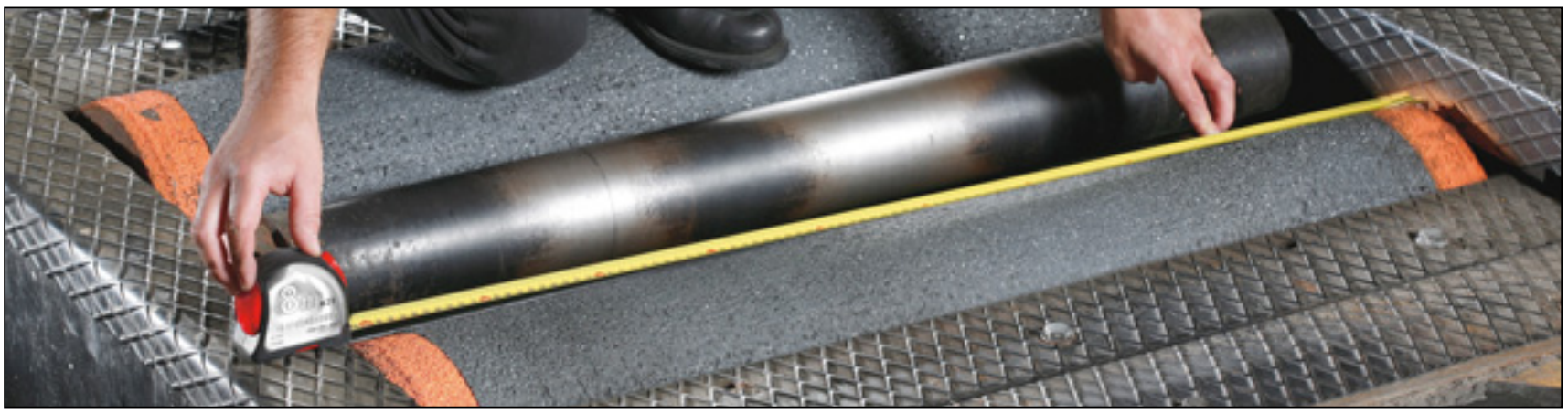


DELA.25-35-55.EX 2, 3, 5 metres - 6, 10, 16 FEET

- Same specifications as DELA.25-35-55 series.

	m	ft	mm	A mm	D x C mm	
DELA.25.00EX	2	6	16	64	33 x 62	98
DELA.35.00EX	3	10	16	64	33 x 62	124
DELA.55.00EX	5	16	19	76	44 x 71	202



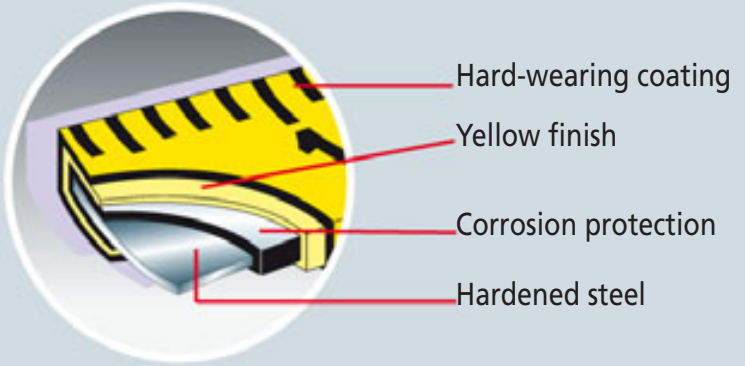


Long tape measures

FACOM DESIGNS AND DEVELOPS A RANGE OF PROFESSIONAL-GRADE LONG TAPES

Plastiver tapes are ideal for outdoor applications, e.g. building sites.
Stringent inspection procedures ensure that our tapes conform to precision class I, II or III.

STEEL TAPE : Class I and II



PLASTIVER TAPE : Class III

32 glass-fibre strands coated with PVC. centimetres marked in black and metres in red for excellent readability.

Class I corrosion resistant steel tape

Corrosion resistant steel tape.

Definition of class I

The particularly exacting tolerances of class I are limited to ± 1/10 millimetre per metre.
Class I tapes are supplied complete with a COFRAC calibration certificate.
They have the zero mark approximately 10 cm after the beginning of the tape.

Calibration certificate

These tapes come with a COFRAC-approved calibration certificate in line with ISO 9000 certification procedures
For 10m and 20m tapes, checks are made every metre.
For 30m and 50m tapes, checks are at 5-metre intervals.

DELA.62881 Open frames

- Paint-finish steel frame with folding winder.
- Tape guide-rollers.
- Loop with retractable claw.
- Zero mark 10 cm from loop.

	m	mm	g
DELA.62881.01C	10	13	369
DELA.62881.02C	20	13	604

DELA.62883 Challenger

- Ergonomic revolver handle with folding winder.
- Loop with retractable claw.
- Zero mark 10 cm from loop.
- Carrier case 325 x 275 x 56 mm.

	m	mm	g
DELA.62883.03C	30	13	1270
DELA.62883.04C	50	13	1720

Class II corrosion resistant steel tape

DELA.2881 Open frames

- Paint-finish steel frame with folding winder.
- Tape guide-rollers.
- Loop with retractable claw.

	m	mm	g
DELA.2881.01	10	13	369
DELA.2881.02	20	13	604
DELA.2881.03	30	13	874

Class II Challenger tape measure - 50 m

DELA.2883.04

- Ergonomic revolver handle with folding winder.
- Loop with retractable claw.
- Carrier case 325 x 275 x 56 mm.

	m	mm	g
DELA.2883.04	50	13	1720

DELA.2831 Contoured cases

- Sealed ABS casing with retractable handle.
- Corrosion resistant tape.
- Folding winder.

	m	mm	g
DELA.2831.01	10	10	175
DELA.2831.03	20	10	339
DELA.2831.05	30	10	493

Long tape measures

Class III Plastiver tape

DELA.8947 Discover

- Closed synthetic case with folding winder.
- Graduated on both sides.
- Loop fitted with claw.
- Fast rewind.

	m	mm	g
DELA.8947.02	10	15	161
DELA.8947.03	20	15	318

Class III Verajour tape measure - 20 m long

DELA.2882.20

- Open steel frame with folding winder.
- Graduated on both sides.
- Loop fitted with claw.
- Fast rewind.

	m	mm	g
DELA.2882.20	20	15	480

Levels

Engineers levels

DELA.3151 Two-vial levels

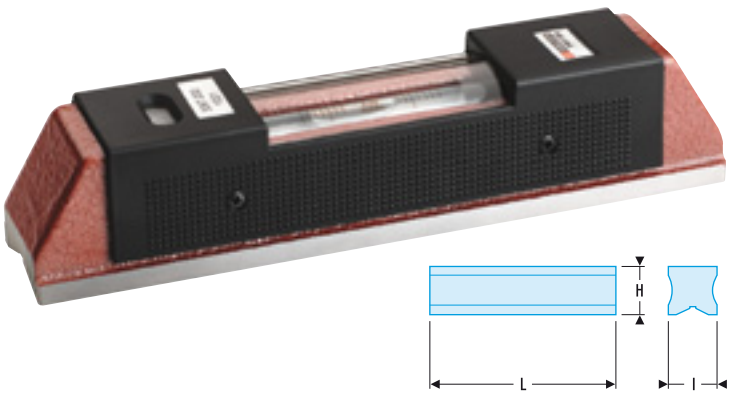
- Accuracy 0.4 mm/m
- Trued steel base with grooves for round objects.
- Adjustable horizontal vial with guard.

	L mm	g
DELA.3151.01	200	400
DELA.3151.02	300	550

3067 Precision straight levels

▷ DIN 877.

- Stabilized cast iron.
- Comes in a wooden case with a certificate of conformity.
- Accuracy 0.04 mm/m.
- Non-slip insulating side pads.
- Colourless Plexiglas vial guard.
- Prismatic base with 140 vee.
- Ether spirit.



	L mm	l mm	H mm	kg
3067.200	200	40	42,5	1,62
3067.300	300	50	47	2,58

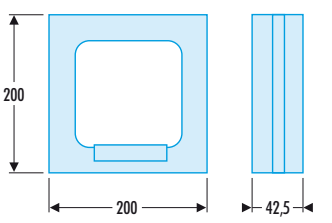
Frame level

3071.200

▷ DIN 877.

- Stabilized cast iron.
- Comes in a wooden case with a certificate of conformity.
- Accuracy 0.04 mm/m.
- Non-slip insulating side pads.
- Colourless Plexiglas vial guard.
- Prismatic base with 140° vee.
- Ether spirit.

⚖ : 4.3 kg.



DELA.3180 Round screw-down level

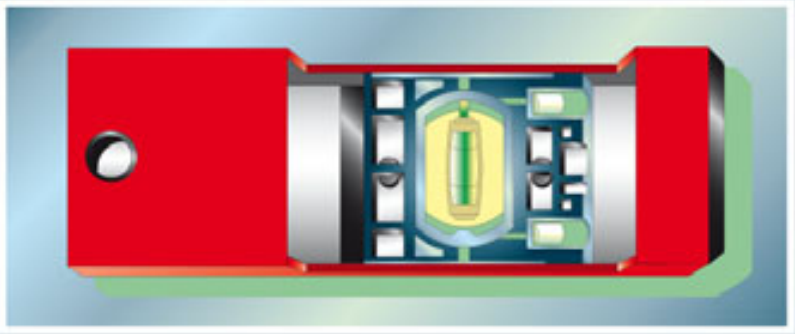
- Spherical vial.
- Nickel-plated brass.
- Multi-directional level checks.

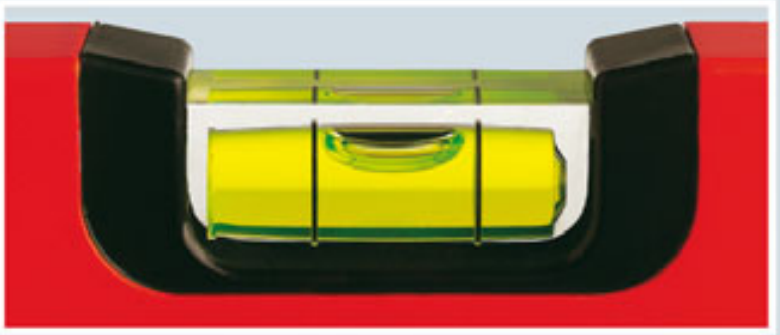
	Ø mm	g
DELA.3180.02	25	12
DELA.3180.03	30	20
DELA.3180.05	50	80

Builders levels

Levels

EASY-TO-USE PROFESSIONAL QUALITY TOOLS





Accuracy

- The accuracy of a level is defined by 2 elements :
  - The quality of machining of the flat faces,
  - The quality and positioning of the vial.
- Vial integral with the body of the level.

Readability

- Vial machined from a solid acrylic block :
  - Anti-reflective
  - Anti-parallax
- Does not become clouded over time.
- High impact resistance.

Durability

- Unbreakable synthetic caps.
- Impact-protection system providing maximum protec-tion. to the face.
- Rigid.
- Leak proof and highly impact-resistant acrylic glass.

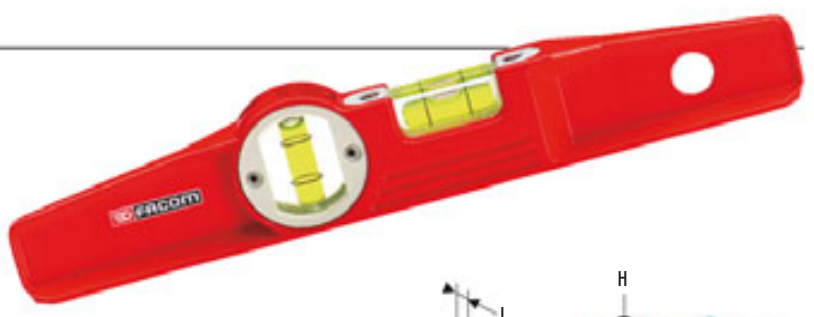
Trapezoidal levels

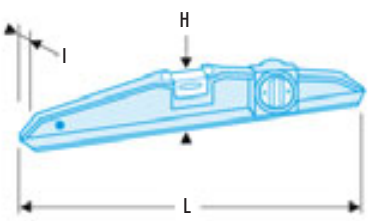
307AM Magnetic levels

▷ DIN 877.

- Accuracy 0.75 mm/m when used upside down.
- Solid die-cast lightweight alloy body.
- Electrostatic powder coating.

	L mm	H mm	I mm	g
307AM.25	250	45	22	200
307AM.40	400	50	23	420
307AM.50	500	50	23	540
307AM.60	600	50	23	680



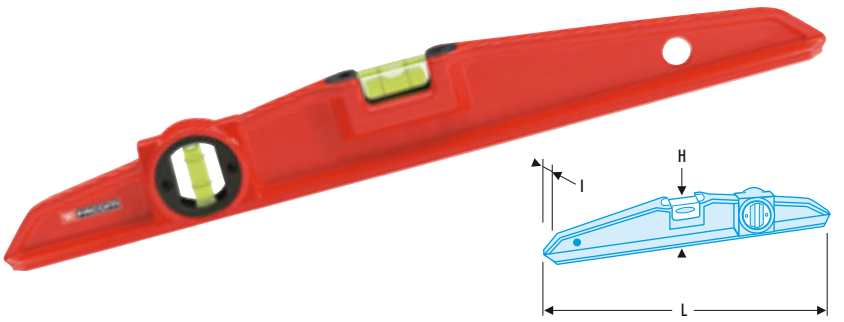


307A Standard levels

▷ DIN 877.

• Similar to 307AM but non-magnetic.

	L mm	H mm	I mm	⚖ g
307A.25	250	45	22	200
307A.40	400	50	23	420
307A.50	500	50	23	540
307A.60	600	50	23	680



Box section levels

320 Standard levels, 1 machined faces

▷ DIN 877.

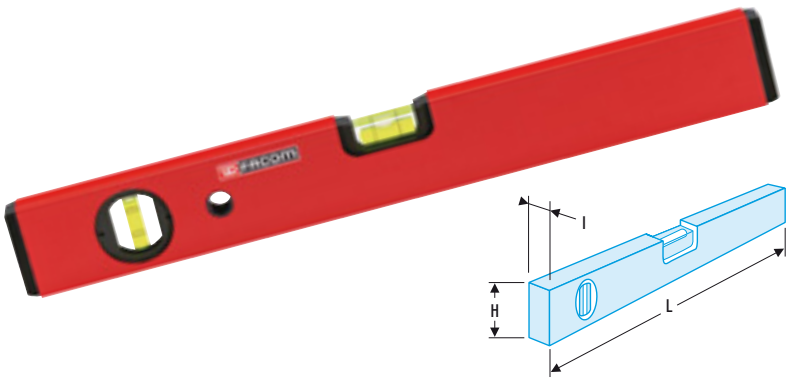
• Accuracy 0.75 mm/m when used upside down.

• Extruded lightweight alloy body.

• Electrostatic powder coating.

• 1 horizontal vial and 1 plumb vial.

	L mm	H mm	I mm	⚖ g
320.40	400	50	21	300
320.50	500	50	21	370
320.60	600	50	21	480
320L.200	2000	50	21	2000



309M Magnetic levels

▷ DIN 877.

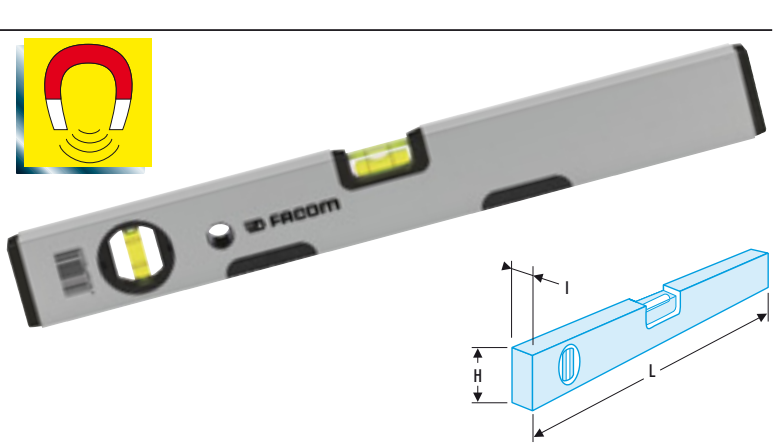
• Accuracy 1 mm/m when used upside down.

• Extruded lightweight alloy body.

• Smooth anodised finish (easy to clean).

• 1 horizontal vial and 1 plumb vial.

	L mm	H mm	I mm	⚖ g
309M.40	400	50	21	300
309M.50	500	50	21	400



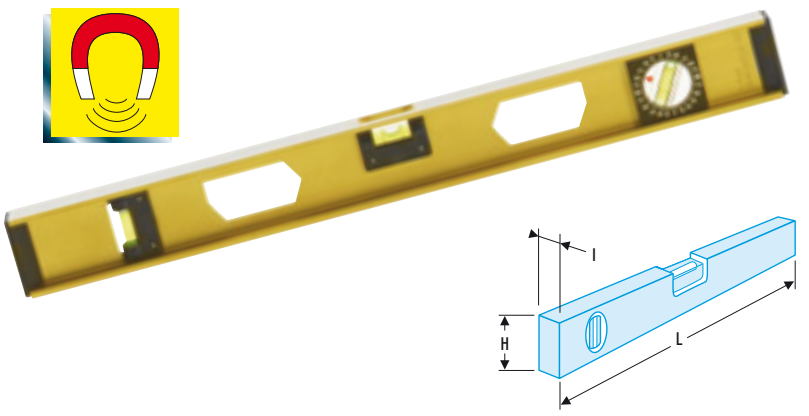
311A Magnetic levels, 1 machined face

▷ DIN 877.

• Accuracy 0.5 mm/m when used upside down.

• 1 horizontal, 1 plumb and 1 protractor vial.

	L mm	H mm	I mm	⚖ kg
311A.50	500	54	25	0,57
311A.60	600	54	25	0,663
311A.80	800	54	25	0,88
311A.100	1000	54	25	1,08



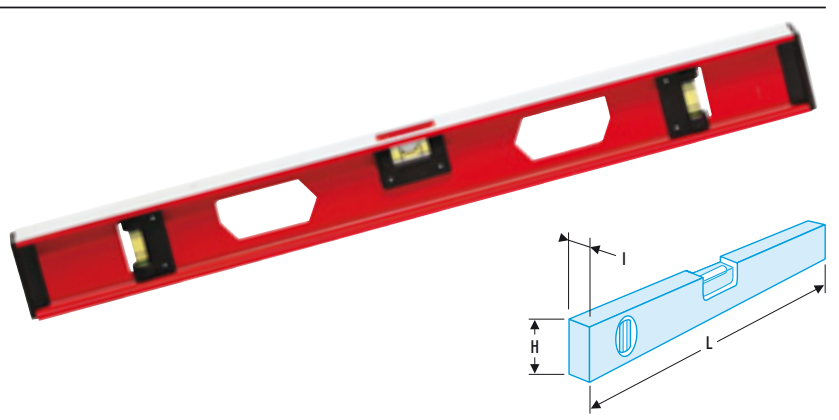
310B Standard levels, 2 machined faces

▷ DIN 877.

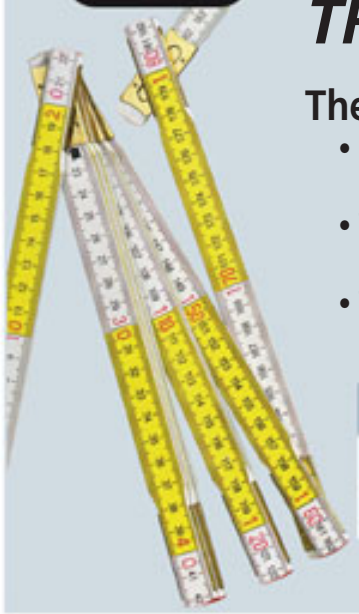
• Accuracy 0.5 mm/m when used upside down.

• 1 horizontal vial and two plumb vials.

	L mm	H mm	I mm	⚖ g
310B.40	400	54	25	420
310B.50	500	54	25	520
310B.60	600	54	25	600



Folding rules

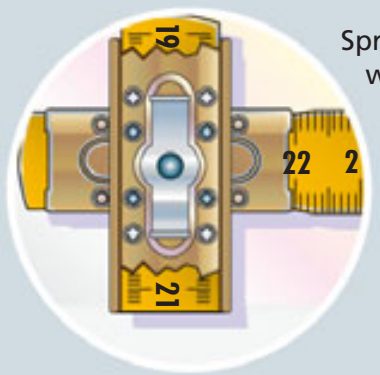


FOLDING RULES ARE THE BUILDERS' TRADITIONAL MEASURING TOOL

The FACOM DELA range features 4 models

- 2 duralumin, 1 wooden and 1 synthetic rule, complying with the requirements of precision class III.
- The blades are locked into position either by brass springs or by embossed notches.
- Typical specifications for measuring instruments.

Tolérances de précision		
Length	1 m	2 m
Class	± 1,0 mm	± 1,4 mm



Springs are located within the trim inlaid in the wood, preventing expansion of the joints in damp conditions.

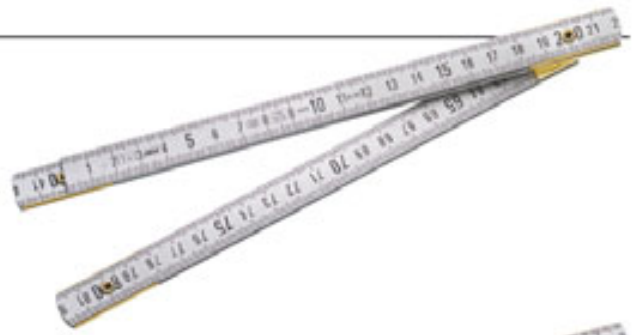
Class III Duralumin rules

5-blade rule, 1 m

DELA.625.00

- Deep etching.
- Graduated on both sides in mm.
- Brass springs.
- Satin finish.
- 15 mm wide.

⚖ : 92 g.



10-blade rule, 2 m

DELA.626.00

- Deep etching.
- Graduated on both sides in mm.
- Brass springs.
- Satin finish.
- 15 mm wide.

⚖ : 162 g.

Class III hardwood rules

10-blade rule, 2 m

802.B2

- Hornbeam for flexibility and strength.
- Abrasion-resistant varnish for high performance.
- Unique locking system for smoothness and accuracy.
- Decimals highlighted in red.
- Graduated in mm on 2 edges both sides.
- 16 mm wide.

⚖ : 135 g.

Class III synthetic rules

10-blade rule, 2 m

DELA.401.00

- Graduated in mm on 2 edges both sides.
- Washable.
- Locks at 90° or 180°.

	m	mm	Number of blades	⚖ g
DELA.401.00	2	16	10	105

Marking-out

Chalk line reels

DELA.13299 "Profil" chalk line reels

- Ergonomic aluminium casing. Wear-resistant line entry.
- Fast rewind.
- Polycotton line Ø 1 mm, with hook.

	Length m	⚖ g
DELA.13299.30	30	265
DELA.13299.15	15	250

	Length m	Description	⚖ g
DELA.3226.01.CORD	100	Spare line	100

DELA.3298 Chalk line reels and plumb lines

- Metal case with folding handle for reel lock.
- Line Ø 1.5 mm.

	Length m	⚖ g
DELA.3298.15	15	240
DELA.3298.30	30	250

	Length m	Description	⚖ g
DELA.3225.02	25	Spare line	50

Grodel chalk line

DELA.3400.00

- Building site and construction model.
- Heavy-duty synthetic casing with folding handle.
- Large chalk reservoir.
- Line Ø 3 mm.

	Length m	⚖ g
DELA.3400.00	30	500

	Description
DELA.3403.00	Spare line (30 m)

Powder and unbleached cotton twine

Blue chalk powder

	⚖ g
DELA.3402.00	100
DELA.3404.00	360

Plumb lines

Plumb lines

- DELA.3210 Cone plumb-line, with clearance plate and 4m line Ø 2 mm.
- DELA.3224.00 Engineers plumb-line, with 4m line Ø 2 mm.

	Ø mm	⚖ g
DELA.3210.02	35	160
DELA.3224.00	16	125

	Description
DELA.3226.03	Spare line (45 m)

Pencils

Masons hard pencil (2 x 30 cm)

DELA.3303.00

- Rectangular lead pencil ideal for marking-out.
- Available loose.

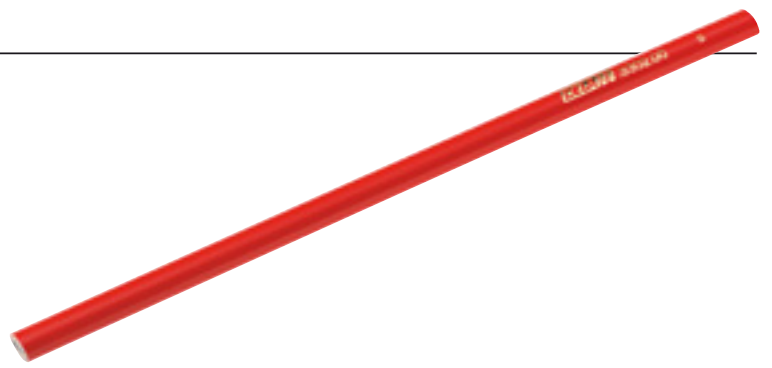
	a x b cm	⚖ g
DELA.3303.00	1 x 30	18

Joiners soft pencil (1 x 30 cm)

DELA.3302.00

- Rectangular lead pencil ideal for marking-out.
- Available loose.

	a x b cm	⚖ g
DELA.3302.00	1 x 30	15



Chalk

DELA.3312 Wax markers

- Suitable for all surfaces including metal.
- Withstands temperatures up to 1200°C.

	Colour	▱	A mm	B mm	⚖ g
DELA.3312.02P1	■	12	13	92	210
DELA.3312.03P1	■	12	13	92	210
DELA.3312.04P1	□	12	13	92	210

French chalks

DELA.3310.00

- Tapered chalk sticks for marking metal.
- Cross section 10 x 10, length 100 mm.
- Colour white.
- Box of 50.

⚖ : 1.3 kg.

Letter and number stencils

DELA.13250 Alphabet sets of 26 capitals 30 to 100 mm high

	Height mm	⚖ g
DELA.13250.06	30	100
DELA.13250.08	40	180
DELA.13250.10	50	275
DELA.13250.12	70	490
DELA.13250.13	80	540
DELA.13250.15	100	800

Number and letter punches in 60 HRc carbon steel

292A Punch sets, 26 letters + dot

• Supplied in a plastic box.

	Length mm	mm	Characters height mm	Cross-section mm	kg
292A.2	70	110 x 40 x 80	2	8 x 8	0,8
292A.3	70	110 x 40 x 80	3	8 x 8	0,8
292A.4	70	110 x 40 x 80	4	8 x 8	0,8
292A.5	75	110 x 40 x 80	5	10 x 10	1,34
292A.6	75	110 x 40 x 80	6	10 x 10	1,35
292A.8	83	145 x 55 x 90	8	13 x 13	2,52
292A.10	90	145 x 55 x 90	10	15 x 15	3,75

293A Punch sets, 9 numerals

• Supplied in a plastic box.

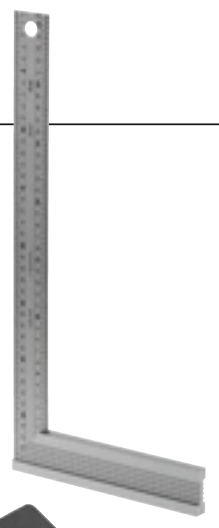
	Length mm	mm	Characters height mm	Cross-section mm	kg
293A.2	70	40 x 40 x 80	2	8 x 8	0,265
293A.3	75	40 x 40 x 80	3	8 x 8	0,270
293A.4	75	40 x 40 x 80	4	8 x 8	0,275
293A.5	75	40 x 40 x 80	5	10 x 10	0,460
293A.6	75	40 x 40 x 80	6	10 x 10	0,460
293A.8	83	55 x 55 x 90	8	13 x 13	0,925
293A.10	90	55 x 55 x 90	10	15 x 15	1,275

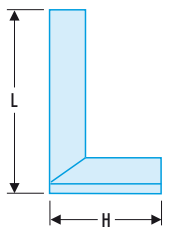
Joiners squares

DELA.1223 Stainless try and mitre squares

▷ NF E 73-205.
• Stainless steel blade, mm markings both sides, protective sheath.
• Anti-glare. Deep graduations.
• Anodized aluminium stock.

	L x H mm	g
DELA.1223.01	200 x 120	160
DELA.1223.02	250 x 140	200
DELA.1223.03	300 x 170	240
DELA.1223.04	400 x 200	300





Measuring and marking-out module

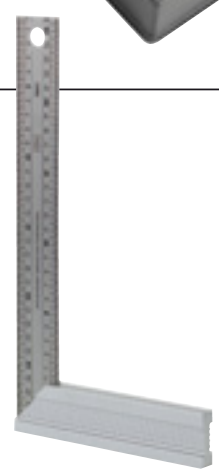
MOD.234

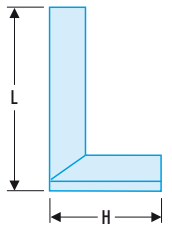
• 257G. Automatic centre punch.
• 234 Scriber.
• 893.316 Tape measure 3 m.
• DELA.1051.05 Rule 300 mm long.
• DELA.1885.00 Protractor.
• DELA.1223.02 Try and mitre square 300 mm long.
• Tray PL.633.
⚖ : 1.05 kg.

DELA.1234 Duralumin try and mitre squares

▷ NF E 73-205.
• Duralumin blade, mm markings both sides, protective sheath.
• Anti-glare. Deep graduations.
• Anodized aluminium stock.

	L x H mm	g
DELA.1234.01	200 x 120	140
DELA.1234.02	250 x 140	175
DELA.1234.03	300 x 170	200
DELA.1234.04	400 x 200	260



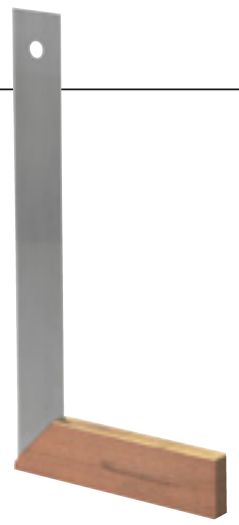


Double mitre squares

DELA.1206.03

- Steel blade, fruitwood stock.
- Length 300 mm, height 170 mm.

	Blade length mm	ΔΔ g
DELA.1206.03	300	160



Measuring tools for construction

DELA.1207-1208 Standard and sliding bevels

- Hardwood stock, steel blade, brass fittings.

	Blade length mm	ΔΔ g
DELA.1207.02	250	150
DELA.1207.03	300	180
DELA.1208.02	250	120
DELA.1208.03	300	140

DELA.1210 Sliding bevels

- Polypropylene stock.
- Steel blade.

	Blade length mm	ΔΔ g
DELA.1210.01	200	80
DELA.1210.02	250	90
DELA.1210.03	300	100

DELA.1276 Metal-stock sliding bevels

- Cast metal stock.
- Steel blade.
- Blade locking screw in stock end.

	Blade length mm	ΔΔ g
DELA.1276.02	250	260
DELA.1276.03	300	270

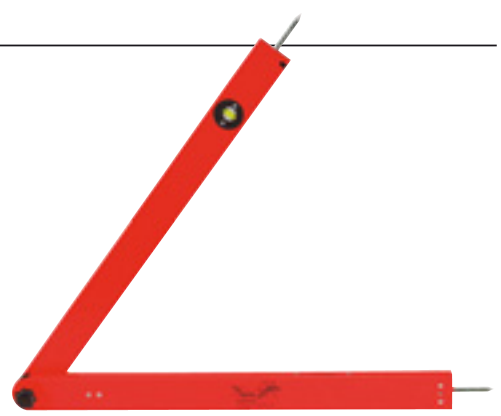
Angle reader

Angle reader

DELA.7598.00

- Analogue display of measurements from 0 to 180°.
- Direct reading.
- Thumbscrew locks angle.
- Integral horizontal and vertical vials.
- Option to replace one point with a marker (field dividers).
- Arm length 600 mm.

ΔΔ : 1.32 kg.



Liquid gauges

Sounding tapes

DELA.5111 Earthed sounding line Yellow-finish steel tape

- Corrosion-resistant hardened steel tape finished in yellow.
- Suitable for explosive environments.
- Earthed to prevent electrical discharges.
- 900g weight attached by swivel-joint to keep the tape kink free.
- Stored in carrier case 325 x 278 x 53 mm.

	L m	l mm	⚖ kg
DELA.5111.20	20	13	2,3
DELA.5111.30	30	13	2,5

5112 Earthed plumb-rule sounding line Black etched steel tape

- Etched black tape with highlighted numbers and graduations.
- Suitable for corrosive and chemical environments.
- Corrosion-resistant.
- Earthing system.
- 900g weight attached by swivel-joint to keep the tape kink free.
- Stored in carrier case 325 x 278 x 53 mm.

	L m	l mm	⚖ kg
5112.20	20	13	2,4
5112.30	30	13	2,75

Spare parts

5116 Yellow-finish tape with ballast

	L m	l mm	⚖ kg
5116.20A	20	13	1,255
5116.30A	30	13	1,400

5117 Black etched tape with ballast

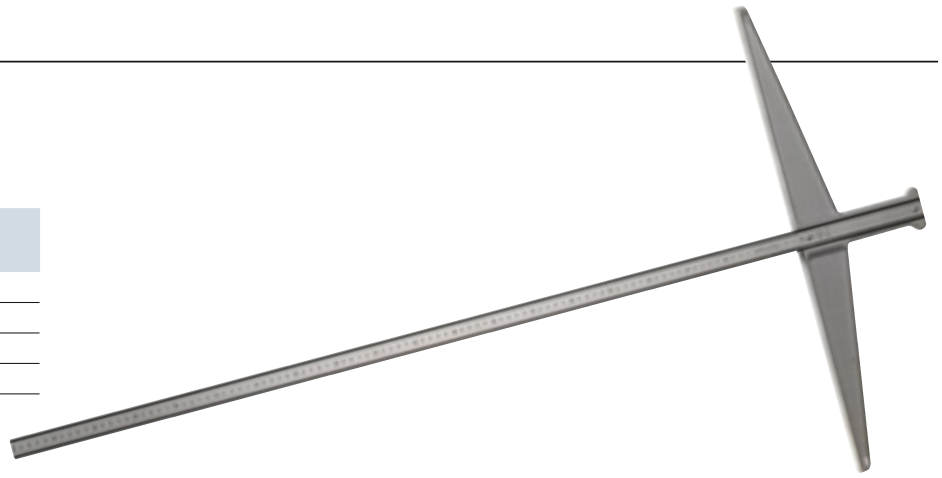
	L m	l mm	⚖ kg
5117.20A	20	13	1,255
5117.30A	30	13	1,400

Outage and innage gauges

DELA.5360 Outage gauge, top zero

- Rule in AU4G. Graduations in mm.
- Support cross-section 15 x 25 x 15 mm.
- Cross-bar length 60 cm.

⇉	Length mm	Cross-section mm	⧋ kg
DELA.5360.01	500	21,5 x 1,2	1
DELA.5360.02	600	21,5 x 1,2	1,05
DELA.5360.06	1000	21,5 x 1,2	1,2
DELA.5360.07	1500	21,5 x 1,2	1,24



DELA.5300 Innage gauge, bottom gauge

- Graduations in mm, figured in cm. Rule in AU4G.
- Support cross-section 15 x 25 x 15 mm.

⇉	Length mm	Cross-section mm	⧋ kg
DELA.5300.03	2000	21,5 x 1,2	0,75
DELA.5300.05	3000	21,5 x 1,2	1
DELA.5300.06	3500	21,5 x 1,2	1,16

DELA.5301 Innage gauge

- Support cross-section 20 x 40 x 20 mm. Rule in AU4G.
- Graduations in mm, figured in 1/2 dm.

⇉	Length mm	Cross-section mm	⧋ kg
DELA.5301.03	4000	33,4 x 1,2	3,4
DELA.5301.05	5000	33,4 x 1,2	4,1

Brass slide

DELA.5023.00

- Dimensions 15 x 25 x 15 mm.
- Fits series 5360 and 5300.

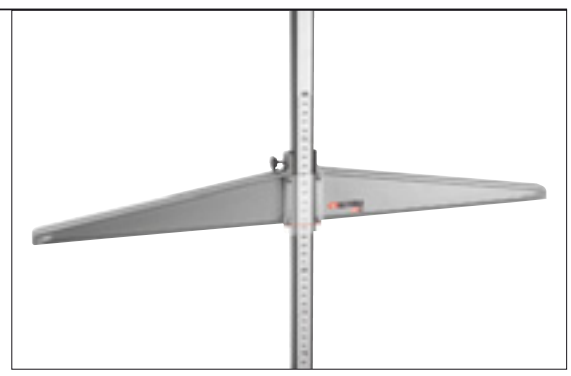
⧋ : 90 g.

Sliding guard

DELA.5046.01

- Dimensions 15 x 25 x 15 mm.
- Fits series DELA.5360 and DELA.5300.

⧋ : 650 g.



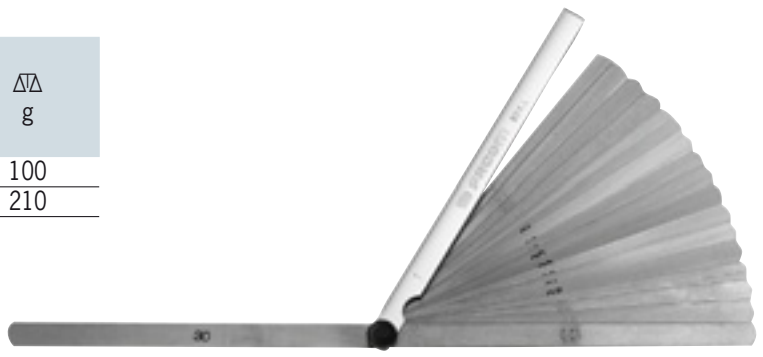
Feeler gauges

Feeler gauges

Long metric feeler gauges

• Rounded tips.

	Number of blades	Blade length mm	Blade width mm	Blade thickness in 1/100 mm	⚖ g
804.L	19	150	10	4-5-6-7-8-9-10-15-20-25	100
804.SL	19	250	10	30-35-40-50-60-70-80-90-100	210



Metric feeler gauges

• Blade length 90 mm.

	Number of blades	Blade profile	Width x length of blades in mm	Blade thickness in 1/100 mm	⚖ g
804	19		10 x 90	4-5-6-7-8-9-10-15-20-25-30	60
804.P	19		10 x 90	35-40-50-60-70-80-90-100	60

Non-magnetic metric feeler gauges

804.AM

• Blade thickness in 1/100 mm.
• 19 blades : 10 - 15 - 20 - 25 - 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 - 70 - 75 - 80 - 85 - 90 - 95 - 100.
• Brass blades 1000 mm long.
• Width : 10 mm.
• Tapered tips.
⚖ : 110 g.

Inch feeler gauges

804.U

• Blade thickness in 1/10,000".
• 26 blades : 15 - 20 - 25 - 30 - 40 - 50 - 60 - 70 - 80 - 90 - 100 - 110 - 120 - 130 - 140 - 150 - 160 - 170 - 180 - 190 - 200 - 210 - 220 - 230 - 240 - 250.
• Tapered tips.
• Length : 3 1/2" (88.9 mm).
• Width : 15/32".
⚖ : 83 g.

Radius gauges

Radius gauges

• For internal and external radii.
• Hardened steel blades. 3 models cover radii from 1 mm to 25 mm.

	Number of blades	mm	Set contents	⚖ g
DELA.1786.00	34	1 -> 7	1-1.25-1.50-1.75-2-2.25-2.50-2.75-3-3.5-4-4.50-5-5.50-6-6.50-7	65
DELA.1787.00	32	7,5 -> 15	7.50-8-8.50-9-9.50-10-10.50-11-11.50-12-12.5-13-13.50-14-14.50-15	80
DELA.1790.00	30	15,5 -> 25	15.50-16-16.50-17-17.50-18-18.50-19-19.50-20-21-22-23-24-25	125

Screw pitch gauges

814 Screw pitch gauges

	Thread forms	Number of blades	Pitch recognition	⚖ g
814.M	Metric thread	60 cutting gauge + 31 blades	25 - 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 - 70 - 75 - 80 85 - 90 - 100 - 110 - 120 - 125 - 130 - 140 - 150 - 160 170 - 175 - 180 - 190 - 200 - 225 - 250 - 275 - 300	53
814.NI	I.S.O thread	60 cutting gauge + 25 blades	0.25 - 0.30 - 0.35 - 0.40 - 0.45 - 0.50 - 0.60 - 0.70 0.75 - 0.80 - 1.00 - 1.25 - 1.50 - 1.75 - 2.00 - 2.50 3.00 - 3.50 - 4.00 - 4.50 - 5.00 - 5.50 - 6.00 - 6.50 - 7.00	35
814.WH	Whitworth thread	55 cutting gauge + 29 blades	4 - 4.5 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12 - 13 - 14 - 16 - 18 - 19 20 - 22 - 24 - 25 - 26 - 28 - 30 - 32 - 34 - 36 - 38 - 40 - 48 - 60	40
814.G	Gas thread	8 blades	Female threads : 11 - 14 - 19 - 28 Male threads : 11 - 14 - 19 - 28	20

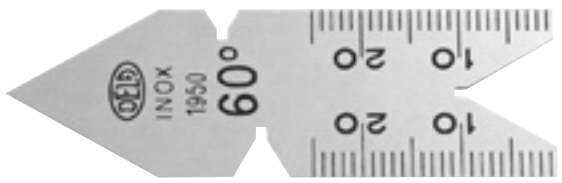
Miscellaneous gauges

Angle gauge

DELA.1950.00

- 60 screw pitch gauge. Stainless steel.
- Graduated in mm on one side and 1/2 mm on the other. Useful for lathe-tool and thread angles.

⚖ : 30 g.



Drill gauge

DELA.1952.00

- Gives correct drill-bit cutting angle of 120.
- Cutting edge gauge graduated 0-20 in mm and 1/2 mm.
- Stainless steel.

⚖ : 50 g.

Welders gauge

DELA.1960.00

- Gives correct 60, 70, 80 and 90 weld fillet angles.
- Includes 1/10 vernier for measuring weld seams.
- Steel.

⚖ : 76 g.

FACOM
1222.175

10. Hammers and striking tools

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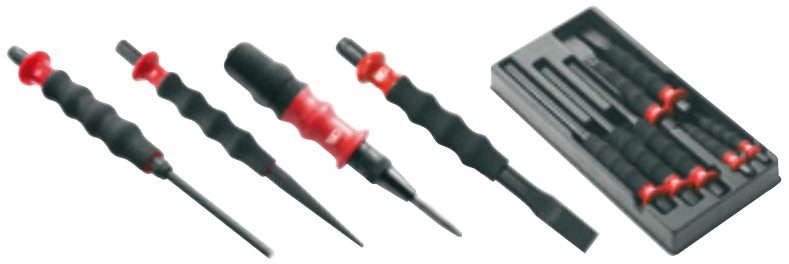

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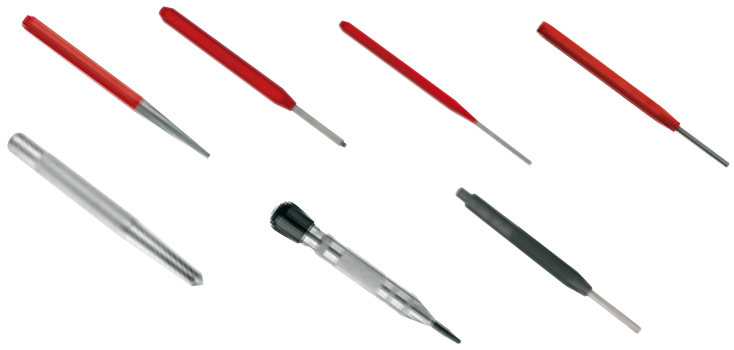

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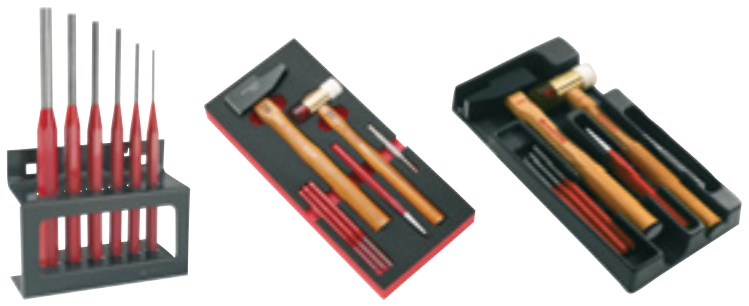
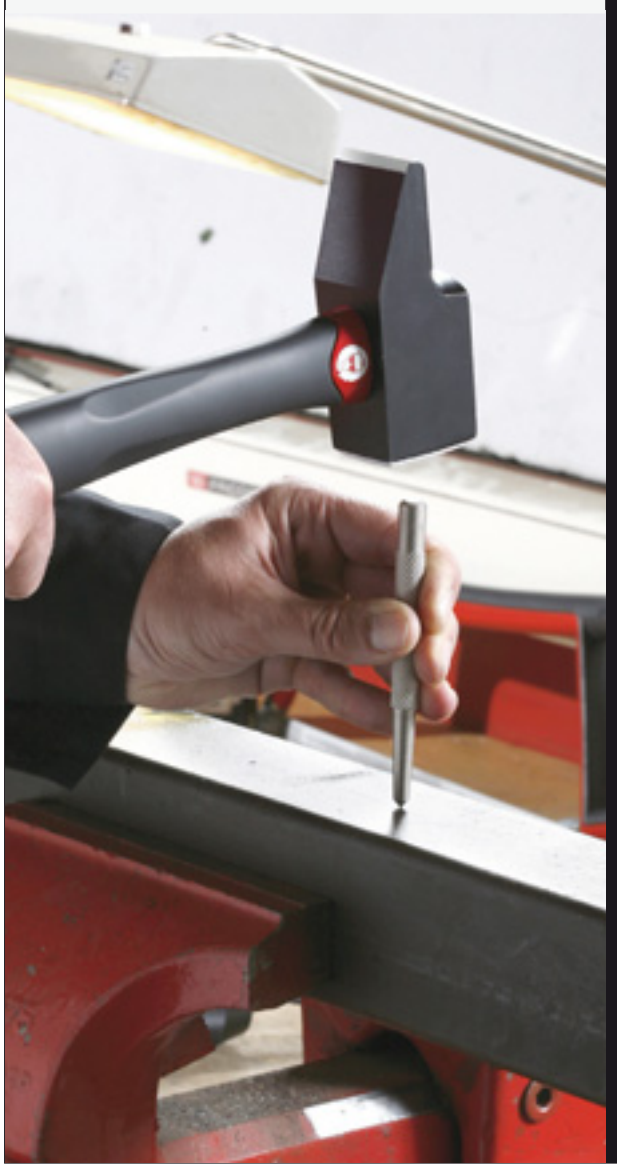


Graphite handle hammers

New

GRAPHITE HANDLE HAMMERS



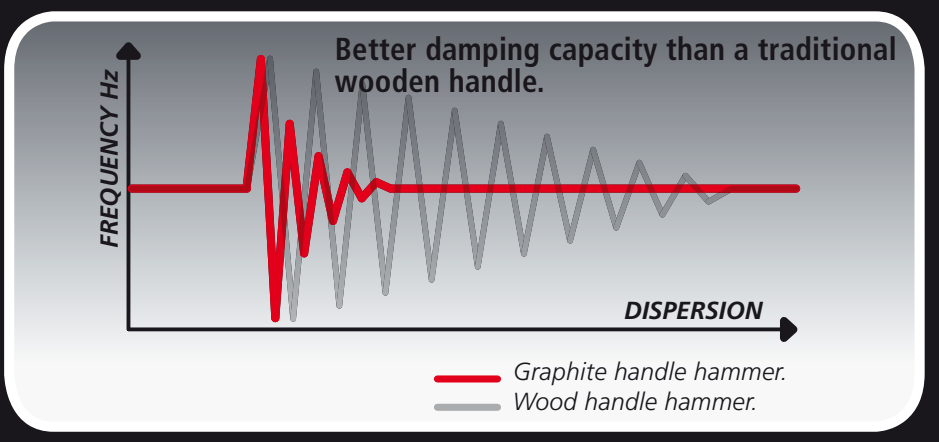
THE SAFE HAMMER

Maximum safety.

- *Permanent epoxy resin head-to-handle connection.*
- *Unbreakable.*

Absolute comfort

- *Anti vibration : absorbent material and narrow upper handle profile to reduce vibration.*



Positive grip.

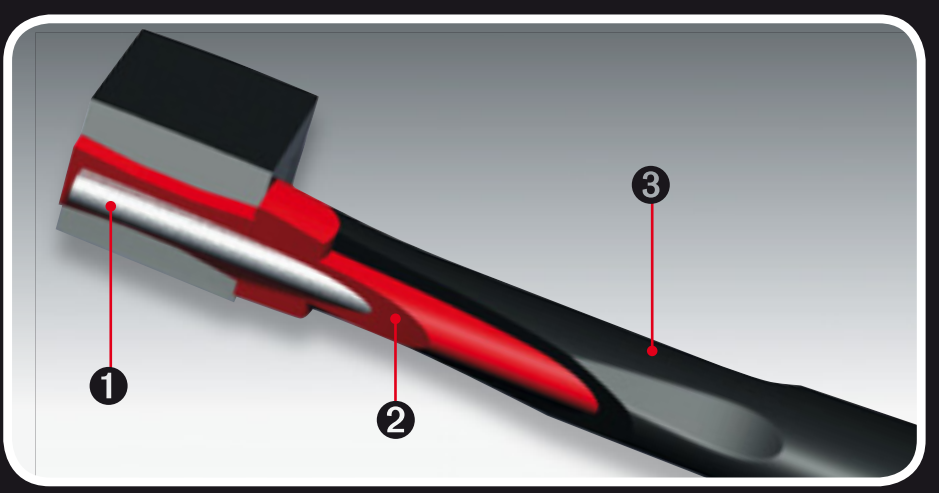
- *Soft elastomer handle for a comfortable hold.*
- *Wider guard to prevent loss of grip.*

A combination of 3 materials for a perfect result.

1- Graphite :
For strength. No risk of breakage.

Polypropylene :
For reduced vibration.

Elastomer :
For a perfect grip and excellent resistance to corrosive workshop liquids.



Safety first

Wear eye protection.

New

200C Graphite handle "riveting" engineers hammer

▷ NF E 71-014, ISO 15601.

• Graphite core safety handle.

	l mm	H mm	L mm	kg
200C.26	80	25	245	0,345
200C.28	88	28	270	0,380
200C.30	93	30	270	0,470
200C.32	100	32	300	0,585
200C.36	106	35	300	0,725
200C.40	108	40	330	1,025
200C.42	117	42	330	1,130
200C.50	138	50	360	1,910
200C.60	151	60	380	2,800

Profiber®

New

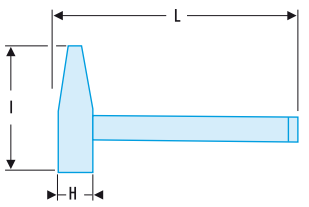
205C Graphite handle "DIN" engineers hammer

▷ ISO 15601, DIN 1041, NF ISO 15601.

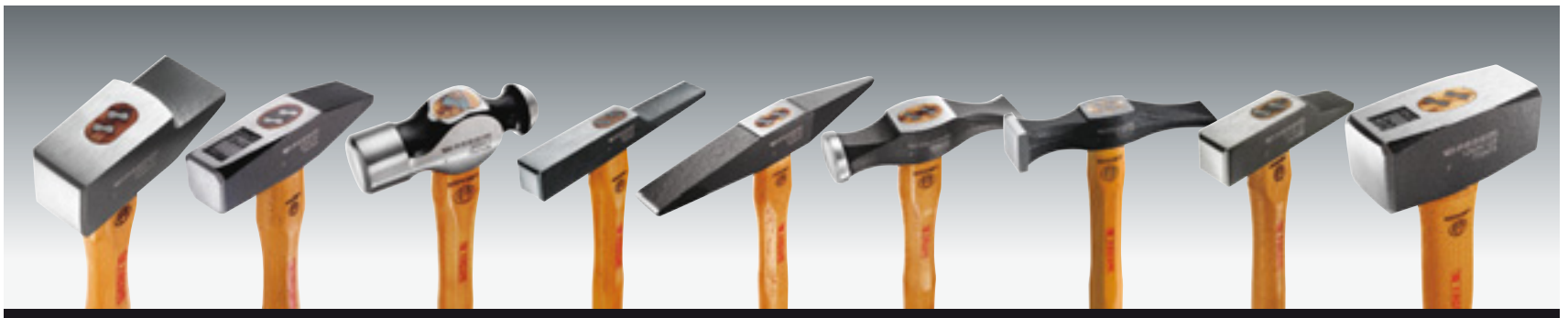
• Graphite core safety handle.

	l mm	H mm	L mm	kg
205C.20	96	19	280	0,250
205C.30	106	23	300	0,380
205C.50	122	27	320	0,580
205C.80	132	33	350	0,960
205C.100	137	36	360	1,140

Profiber®



New WOOD HANDLE HAMMERS



SAFE, ERGONOMIC AND COMFORTABLE

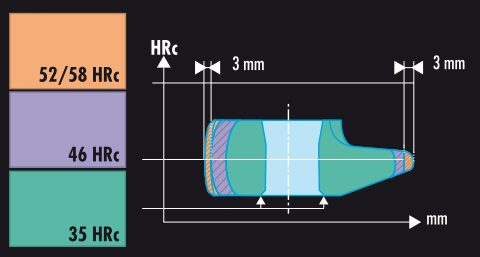
Head.

"High security" triple wedge handle attachment :

• 2 steel + 1 wooden wedge for a better distribution contact surfaces between the handle and the head.

Head very firmly secured on the handle

• Precise heat treatment of the head.



Handle.

Hickory :

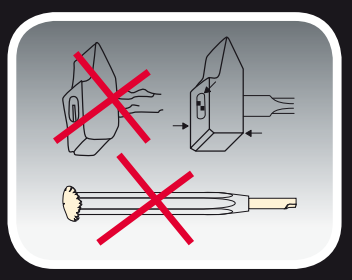
• Excellent mechanical strength.
• Unaffected by climatic differences.

Octagonal handle profile :

• Exclusive to FACOM.
• Best compromise between mechanical. strength and absorption of vibration.

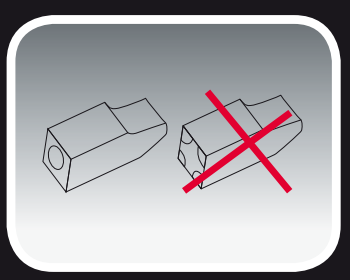
Growth ring

Our handles are made only from blocks with a strictly defined number of growth rings as this determines the rate of growth of the tree.
Fast growth, few rings, low density wood and thus low mechanical strength.



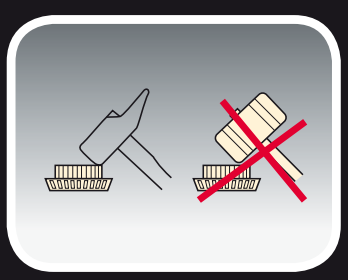
Always inspect a hammer before use. If damaged in any way, discard it. Watch out for :

• Excessively worn or mushroomed head.
• Suspect fit.
• Scored handle.

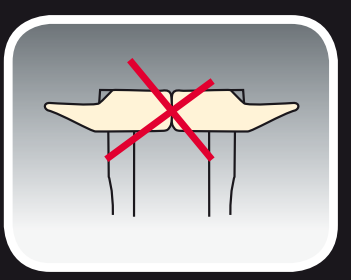


For safety, the hammer should hit dead square in the centre of the face.

Facom hammers are quality tools. Steady precise blows will prolong tool life.



Flying chips are dangerous. never hammer materials harder than 46 HRc. Use a FACOM mallet instead.



Always choose the, correct head, of appropriate weight and size :

the FACOM range includes models for all applications.

Safety first

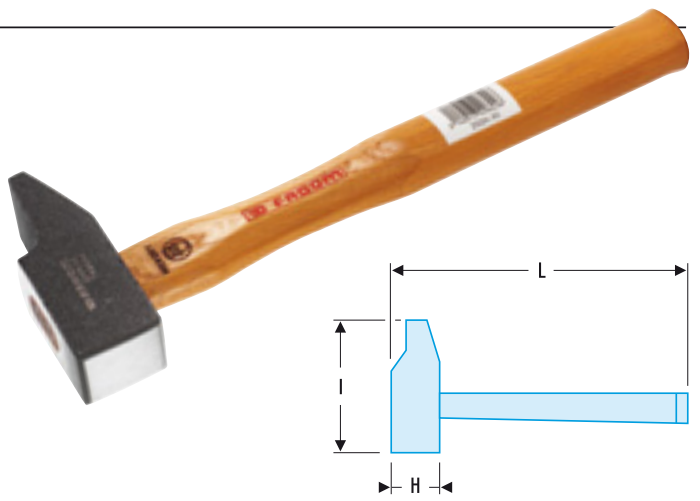
Wear eye protection

200H Riveting hammers

▷ NF E 71-014, ISO 15601.

• Hickory handle, "high security" triple wedge design (1 wooden and 2 metal wedges).

	l mm	H mm	L mm	Hickory	kg
200H.26	80	25	245	210.MHB01	0,345
200H.28	88	28	270	210.MHB02	0,380
200H.30	93	30	270	210.MHB03	0,470
200H.32	100	32	300	210.MHB04	0,585
200H.36	106	35	300	210.MHB04	0,725
200H.40	108	40	330	210.MHB05	1,025
200H.42	117	42	330	210.MHB05	1,130
200H.50	138	50	360	210.MHB06	1,910
200H.60	151	60	380	210.MHB27	2,800



Impact tool module

MOD.MI1

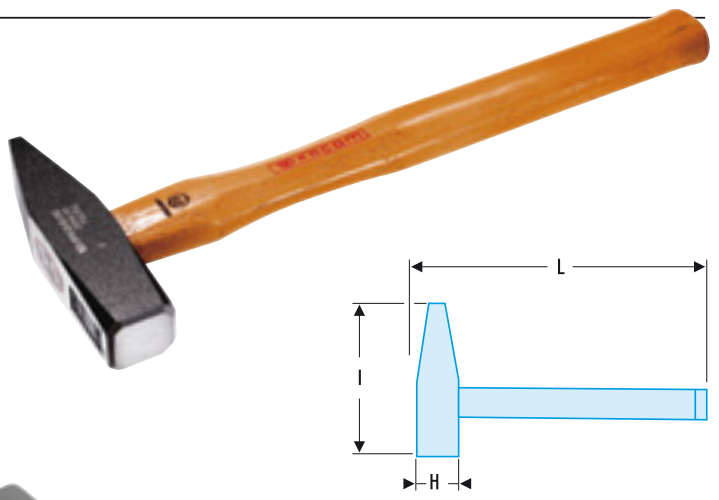
200H.32 Hammer.
208A.32CB Mallet.
263.20 Chisel.
256.6 Centre punch.
248. Long drift punches 4 - 5 - 6 mm.
• Complete with tray PL.333.
⚖ : 1.800 kg.

205H "DIN" engineers hammers

▷ ISO 15601, DIN 1041, NF ISO 15601.

• Hickory handle, "high security" triple wedge design (1 wooden and 2 metal wedges).

	l mm	H mm	L mm	Hickory	kg
205H.20	96	19	280	210.MHB12	0,250
205H.30	106	23	300	210.MHB13	0,380
205H.50	122	27	320	210.MHB14	0,580
205H.80	132	33	350	210.MHB15	0,960
205H.100	137	36	360	210.MHB16	1,140



Impact tool module 205

MOD.MI3

• Comprising :
- 205H.50 Hammer.
- 208A.32CB Mallet.
- 263.18 Chisel.
- 256.6 Centre punch.
- 248. Long drift punches 4 - 5 - 6 mm.

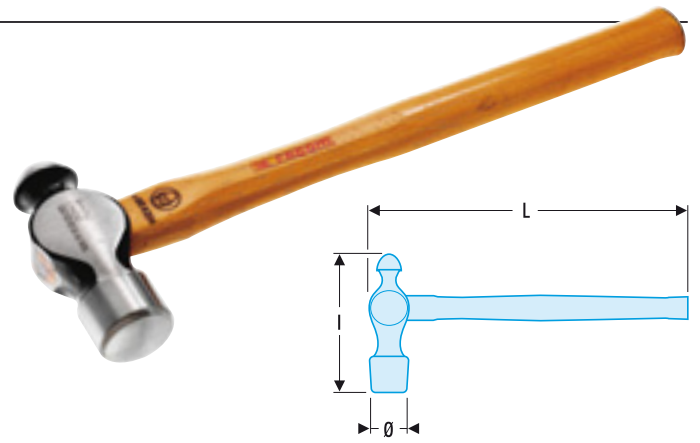
• Tray PL.333.
⚖ : 1.705 kg.

202H Ball pein engineers hammers

▷ ISO 15601.

• Hickory handle, "high security" triple wedge design (1 wooden and 2 metal wedges).

	l mm	Ø mm	L mm	Hickory	kg
202H.1/4	65	20	275	210.MHB07	0,140
202H.1/2	84	26	297	210.MHB08	0,280
202H.1	104	31	322	210.MHB09	0,430
202H.1'1/2	123	37	363	210.MHB10	0,840
202H.2	128	40	394	210.MHB11	1,110



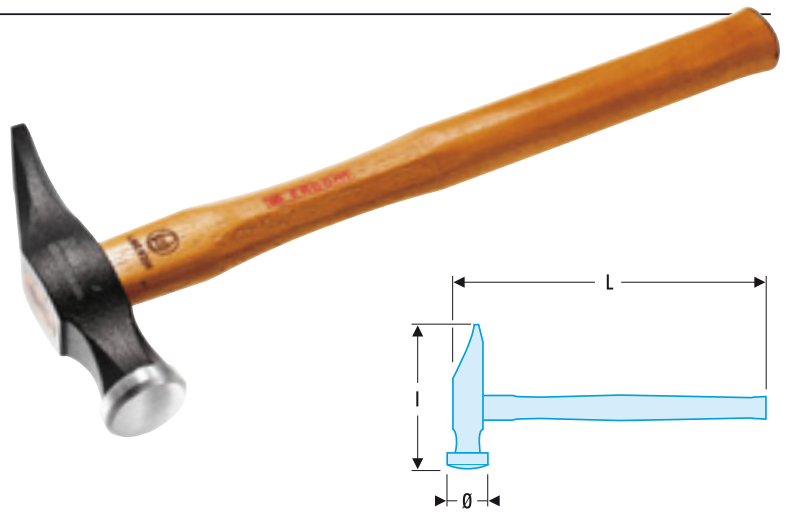
Impact tool module 202

MOD.MI4PB

202H.1/2 Hammer.
208A.32CB Mallet.
263.18 Chisel.
256.6 Centre punch.
248. Long drift punches 4 - 5 - 6 mm.
• Complete with tray PL.333.
⚖ : 1.45 kg.

860H Round face dinging hammers

▷ ISO 15601, NF ISO 15601.
• Hickory handle, "high security" triple wedge design (1 wooden and 2 metal wedges).

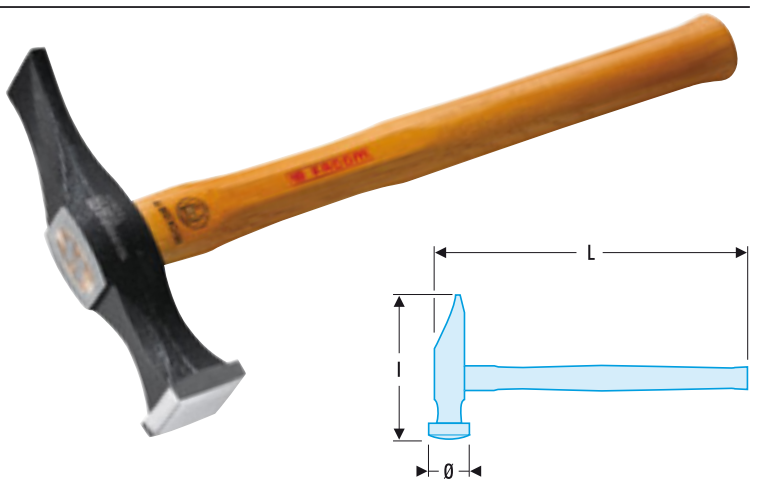


	l mm	ø mm	L mm	Hickory	⚖ kg
860H.22	104	22	280	210.MHB25	0,180
860H.26	114	26	297	210.MHB26	0,340
860H.28	118	28	297	210.MHB26	0,370
860H.30	123	30	314	210.MHB28	0,440
860H.32	134	32	339	210.MHB29	0,570
860H.36	139	36	339	210.MHB29	0,700
860H.40	149	40	377	210.MHB31	0,920

Square face dinging hammer

859A.28

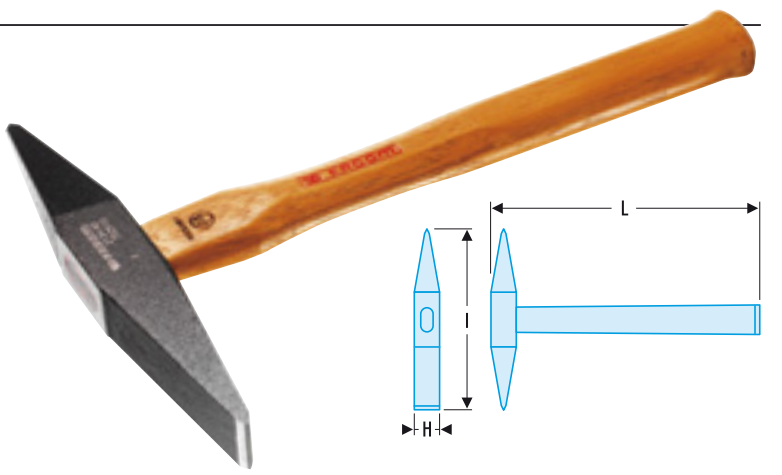
▷ ISO 15601.
• Hickory handle, "high security" triple wedge design (1 wooden and 2 metal wedges).
⚖ : 560 g.



	Handles	l mm	H mm	L mm	⚖ kg
859H.28	210.MHB34	140	28	319	0,560

213H Welders chipping hammers

▷ ISO 15601, DIN 6465, NF ISO 15601.
• Hickory handle, "high security" triple wedge design (1 wooden and 2 metal wedges).

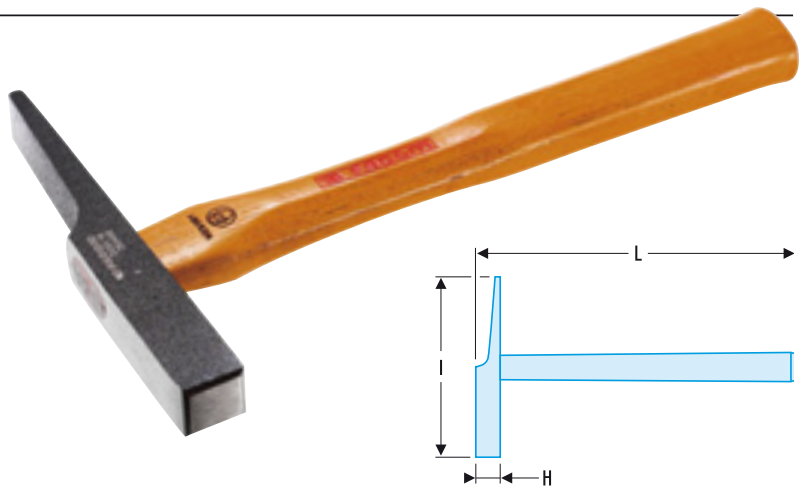


	l mm	H mm	L mm	Hickory	⚖ kg
213H.30	170	21	270	210.MHB32	0,340
213H.40	180	21	270	210.MHB32	0,480

203H Electricians hammer

▷ ISO 15601, NF E 71-011.
• Hickory handle, "high security" triple wedge design (1 wooden and 2 metal wedges).

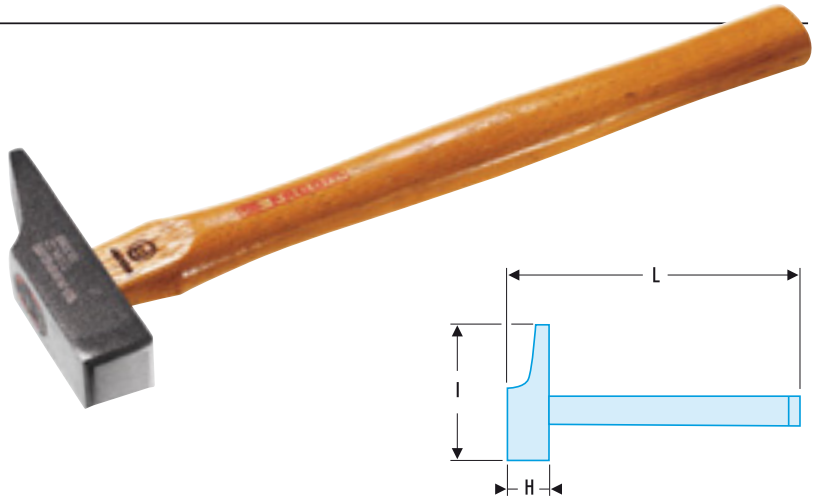
	l mm	H mm	L mm	Hickory	kg
203H.16	141	16	237	210.MHB17	0,160
203H.18	142	18	237	210.MHB18	0,200



215H Joiners hammers

▷ ISO 15601, NF E 71-012.
• Hickory handle, "high security" triple wedge design (1 wooden and 2 metal wedges).

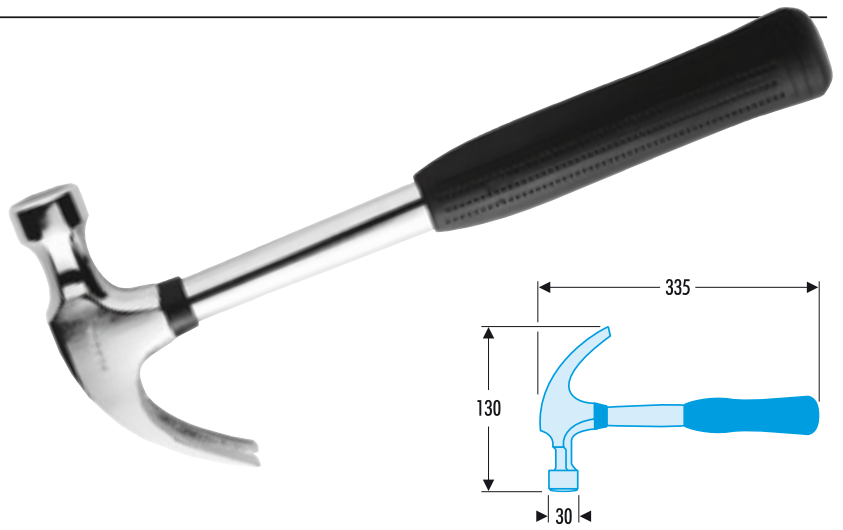
	l mm	H mm	L mm	Hickory	kg
215H.20	91	20	264	210.MHB19	0,210
215H.22	99	22	283	210.MHB20	0,270
215H.26	109	26	285	210.MHB21	0,360



Claw hammer

204

• Permanent tubular handle, Neoprene grip.
• Balanced head with nail claw.
• Polished chrome finish.
⚖ : 800 g.

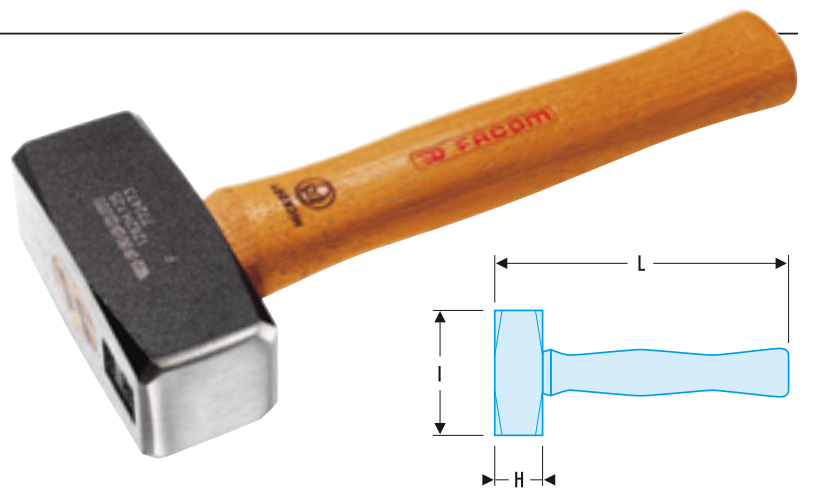


Club and sledge hammers and wood mallets

1262H Bevelled edge club hammers

▷ ISO 15601, DIN 6475, NF ISO 15601.
• Hickory handle, "high security" triple wedge design (1 wooden and 2 metal wedges).

	l mm	H mm	L mm	Hickory	kg
1262H.100	100	40	245	210.MHB22	1,000
1262H.125	105	43	248	210.MHB23	1,250
1262H.150	115	45	254	210.MHB24	1,500



Sledge hammer

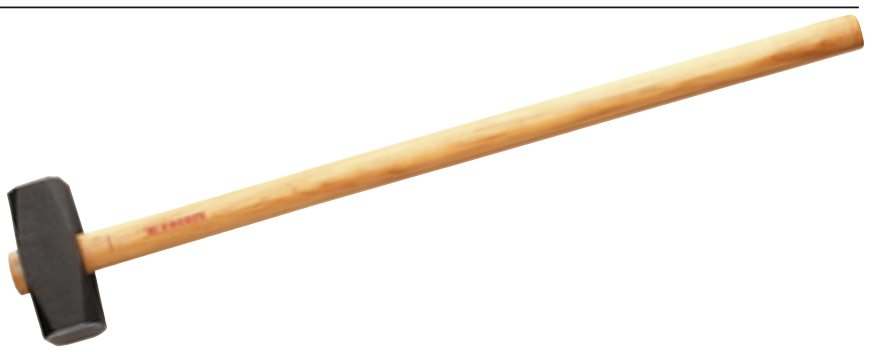
1263A.400

▷ ISO 15601, DIN 6475, NF ISO 15601.

• "High security" hickory handle.

⊃	Handles	l mm	H mm	L mm	ΔΔ kg
1263H.400	210.MHB35	175	60	880	4,800

⊃	Description
210.MH45	Spare sledge hammer handle



209 Wood mallets

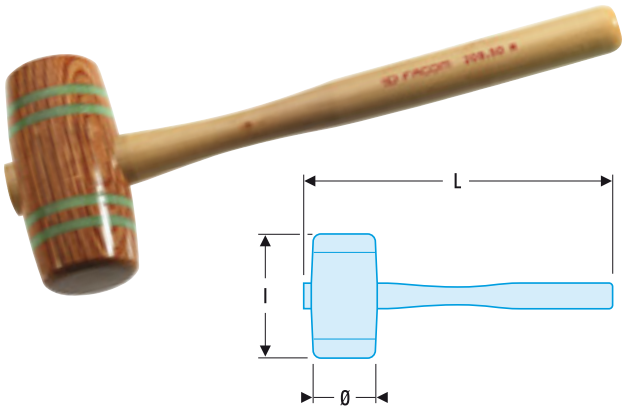
▷ DIN 7462.

• Compressed laminated wood.

• Inset glass-fibre bands.

• Hornbeam handle.

⊃	Ø mm	L mm	l mm	ΔΔ g
209.50	50	290	100	320
209.60	60	320	120	500
209.70	70	360	140	760



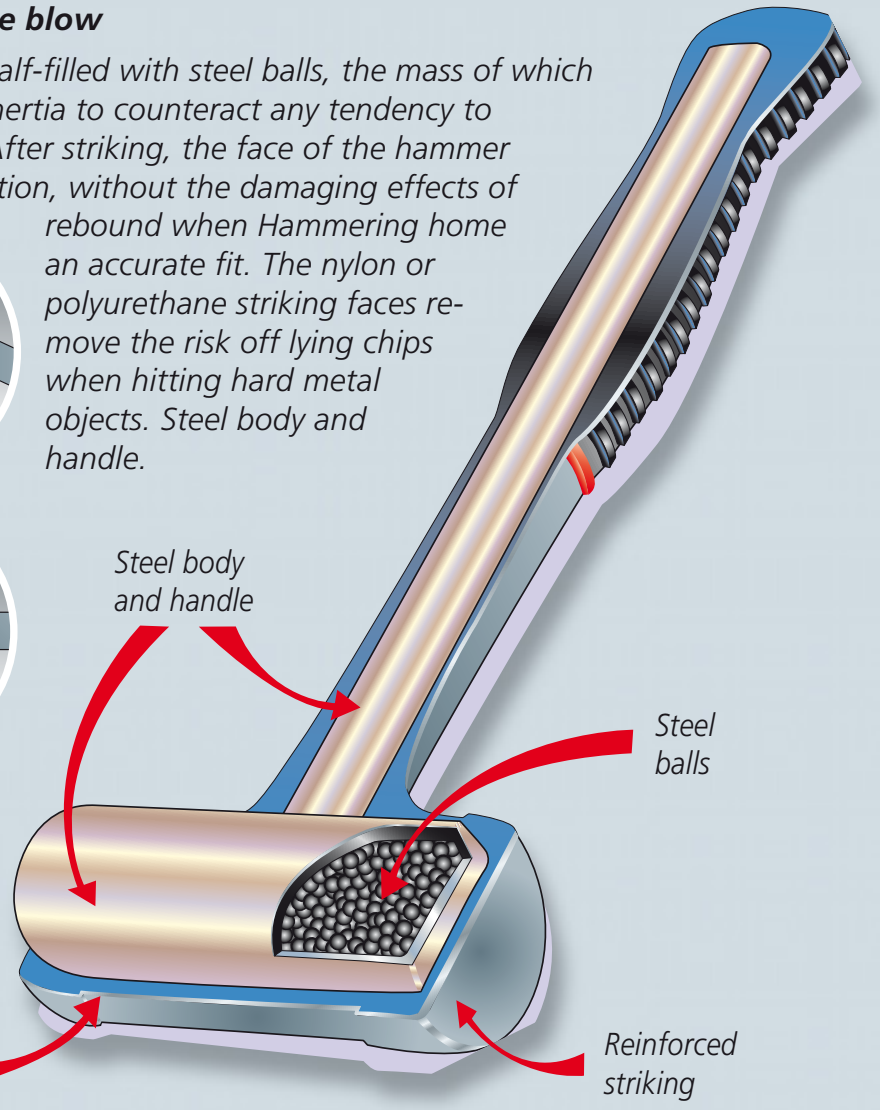
Soft face hammers

Dead-blow hammers

SAFE, ERGONOMIC AND COMFORTABLE

Deadening the blow

• The head is half-filled with steel balls, the mass of which has sufficient inertia to counteract any tendency to bounce back. After striking, the face of the hammer remains in position, without the damaging effects of rebound when Hammering home an accurate fit. The nylon or polyurethane striking faces remove the risk off lying chips when hitting hard metal objects. Steel body and handle.



"Monobloc" polyurethane hammer

• In addition to the dead-blow feature the soft-face hammer 216 is fully moulded in a polyurethane shell.

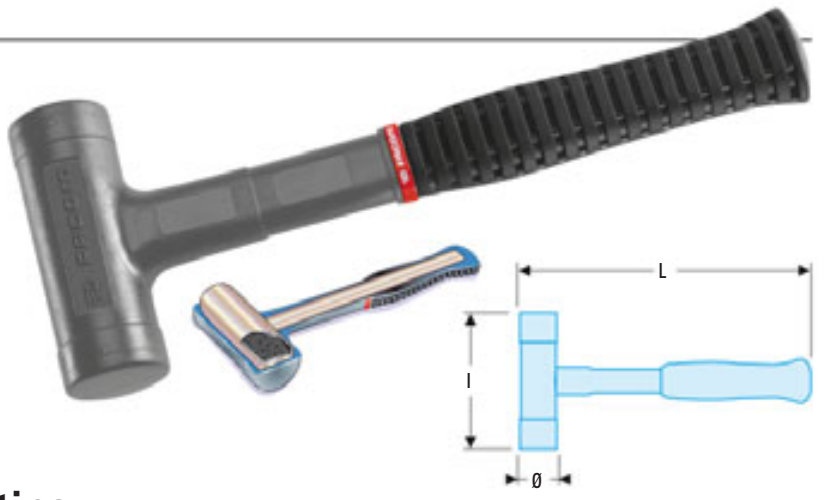
• This monobloc design protects the head from splitting and the balls escaping in the workshop.

• The chemical-resistant polyurethane moulding gives the tips a far longer service life than conventional soft-faced hammers.

216 Dead-blow hammers, monobloc

- Steel-ball dead-blow design.
- Polyurethane encapsulated steel body and handle.
- Shore hardness D63 on striking faces.
- Ergonomic PVC grip.

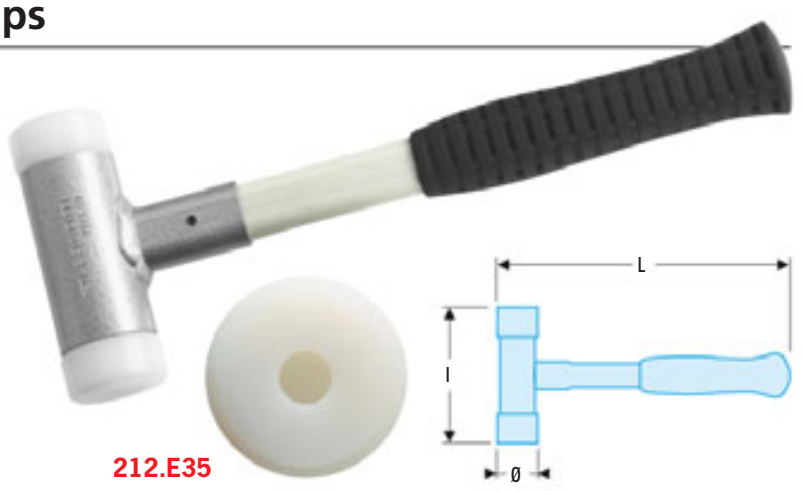
	Ø mm	L mm	l mm	kg
216.40	40	298	110	0,72
216.50	50	308	115	0,95
216.60	60	315	120	1,4



212A Dead-blow hammers, interchangeable tips

- Glass-fibre handle.
- Steel body.
- Easily replaceable, special nylon tips. Shore hardness D74.
- Ergonomic ribbed PVC grip.
- Stove-enamel hammer finish.

	L mm	l mm	Ø mm	Bits	kg
212A.35	305	112	35	212.E35	0,69
212A.40	310	117	40	212.E40	0,76
212A.50	320	120	50	212.E50	1,07
212A.60	330	138	60	212.E60	1,68



212.E35

Interchangeable-tip mallets

207A - 208A Adaptable-tip mallets

207A : Lightweight-series, aluminium body.
208A : Heavyweight-series, brass body.
- Mallets are available with a limited number of tip combinations only, but you can customize your mallet by selecting a body and two tips of your choice.

	Lightweight/Heavyweight	Ø mm	Bits	kg
207A.25CB	Lightweight-series	25	EC - EB	0,135
207A.32CB	Lightweight-series	32	EC - EB	0,205
207A.40CB	Lightweight-series	40	EC - EB	0,350
207A.50CB	Lightweight-series	50	EC - EB	0,350
207A.60CB	Lightweight-series	60	EC - EB	0,528
208A.25CB	Heavyweight-series	25	EC - EB	0,220
208A.32CB	Heavyweight-series	32	EC - EB	0,345
208A.32AB	Heavyweight-series	32	EA - EB	0,390
208A.32BB	Heavyweight-series	32	EB - EB	0,375
208A.40CB	Heavyweight-series	40	EC - EB	0,615
208A.40CC	Heavyweight-series	40	EC - EC	0,626
208A.50CB	Heavyweight-series	50	EC - EB	1,050
208A.60CB	Heavyweight-series	60	EC - EB	1,663

207A - 208A Mallet bodies

207A : Lightweight aluminium body, hickory handle.
208A : Heavyweight brass body, hickory handle.

	Lightweight/Heavyweight	Length mm	Ø mm	Hickory	kg
207A.25	Lightweight-series	280	25	210.MH12	0,135
207A.32	Lightweight-series	300	32	210.MH13	0,195
207A.40	Lightweight-series	323	40	210.MH14	0,270
207A.50	Lightweight-series	350	50	210.MH15	0,410
207A.60	Lightweight-series	363	60	210.MH16	0,610
208A.25	Heavyweight-series	280	25	210.MH12	0,235
208A.32	Heavyweight-series	300	32	210.MH13	0,340
208A.40	Heavyweight-series	323	40	210.MH14	0,525
208A.50	Heavyweight-series	350	50	210.MH15	0,830
208A.60	Heavyweight-series	363	60	210.MH16	1,260

207A

208A

Spare parts

■ Tips
EA : Neoprene tips. Shore hardness A75.
Replacement for rubber mallets.
EB : Cellulose tip. Shore hardness D69 ±2.
Replacement for wood and leather mallets.
EC : Polyamide tip. Shore hardness D72 ±2.
Replacement for soft-metal mallets (copper, lead, brass, aluminium).

EA

		Material	Ø mm
EA.25	■	Neoprene	25
EA.32	■	Neoprene	32
EA.40	■	Neoprene	40
EA.50	■	Neoprene	50
EA.60	■	Neoprene	60
EB.25	■	Cellulose	25
EB.32	■	Cellulose	32
EB.40	■	Cellulose	40
EB.50	■	Cellulose	50
EB.60	■	Cellulose	60
EC.25	□	Polyamide	25
EC.32	□	Polyamide	32
EC.40	□	Polyamide	40
EC.50	□	Polyamide	50
EC.60	□	Polyamide	60

EB

EC

Drifts

214 Standard drifts

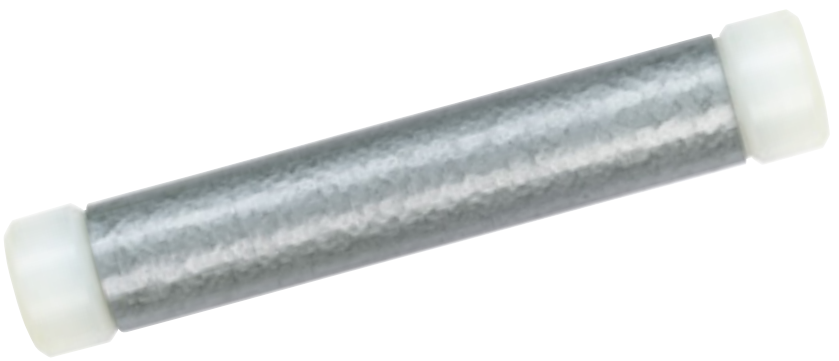
• Steel body.
• Interchangeable nylon tips.
• For use with a hammer or by hand for fitting or removing small components and bearings.
• Replacements for bronze and brass drifts.

	Ø mm	L mm	Bits	⚖ g
214.10	10	168	212.E10	100
214.12	12	170	212.E12	130
214.15	15	175	212.E15	200

214.R Dead-blow drifts

• Steel body filled with steel balls preventing rebound after striking.
• Interchangeable nylon tips.
• Large-diameter drifts which can be used on their own for fitting components gently.

	Ø mm	L mm	Bits	⚖ g
214.R20	20	150	212.E20	220
214.R25	25	150	212.E25	330
214.R30	30	155	212.E30	460
214.R35	35	155	212.E35	650



Multi-impact tool sets

Multi-impact system

DRIFTS AND PUNCHES

Parts protection

- *Interchangeable tips of differing hardness for parts that must not be marked.*
- *High quality, precision tools.*

Multi-solution

- *Tips of 3 different materials : brass, aluminium and polyamide*
- *Extensive range of sizes.*

Comfort and safety

- *Exclusive sheathed, shock-absorbing handle.*
- *Slide-action for an increased shock-absorbency.*
- *Positive grip.*

Brass/Polyamide/Aluminium drift punch set

217.GJ1

- Capacity ∅ 10 to 20 mm.
- 19-piece set comprising :

- 1 seethed anti-vibration handle 217.G16.
- 5 steel tips ∅ 10, 12, 14, 16 and 18 mm.
Effective length 60 mm.
- 3 brass tips ∅ 12, 16, 20 mm.
Effective length 40 mm.
- 3 polyamide tips ∅ 12, 16, 20 mm.
Effective length 40 mm.
- 1 extension 217.R12, effective length 100 mm.
- 3 brass tips for extension ∅ 12, 16, 18 mm.
Effective length 20 mm.
- 3 polyamide tips for extension ∅ 12, 16, 18 mm.
Effective length 20 mm.

- Complete with plastic case 265 x 230 x 50.
- ⚖ : 1.35 kg.

Sheathed handle

217.G16

- Shock-absorbing handle.
- M10 x 150 threaded bit holder.
- Dimensions : 170 x 36 x 36 mm.

	∅ mm	L mm	⚖ g
217.G16	16	170	292

Set of tips for 217.GJ1

	Set contents	Ø mm	Handle	ΔΔ g
217E.A10J3	3 aluminium tips	10	217.G16	59
217E.ALP12	1 aluminium, 1 brass and 1 polyamide tip	12	217.G16	80
217E.A14J3	3 aluminium tips	14	217.G16	88
217E.ALP16	1 aluminium, 1 brass and 1 polyamide tip	16	217.G16	117
217E.A18J3	3 aluminium tips	18	217.G16	135
217E.LP20J4	2 brass and 2 polyamide tips	20	217.G16	252
217E.LPJ6	3 brass and 3 polyamide tips	12/16/18	217.R12	122

Extension

217.R12

- M8 x 125 threaded bit holder extension.
- Dimensions : 120 x 16 x 16 mm.

	Ø	L mm	ΔΔ g
217.R12	12	105	100

Sheathed series

Sheathed series - A step forward

NEW ULTRA-COMFORTABLE ANTI-ROLL SHEATH

Ergonomic

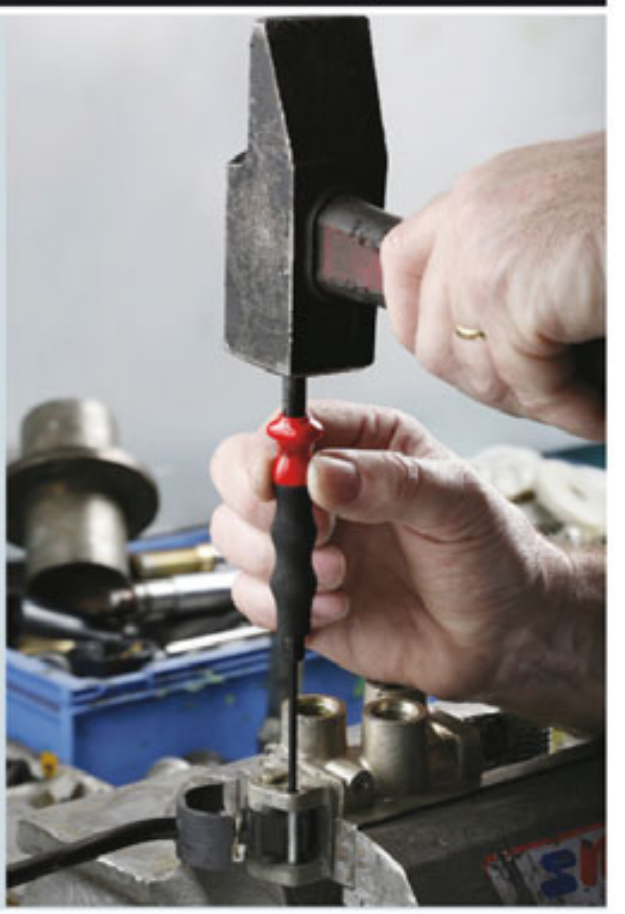
- *Shock-absorbing.*
- *Elastic sheath.*
- *Partly free-sliding sheath.*
- *More stable, more positive grip.*
- *Protects the hand.*

Safe

- *Choice of best steels.*
- *Very precise heat treatment with different harnesses.*
- *DIN 7255.*
- *FACOM specifications.*
- *Better shock absorbance and elasticity to avoid the risk of breakage.*

Precise and Powerful

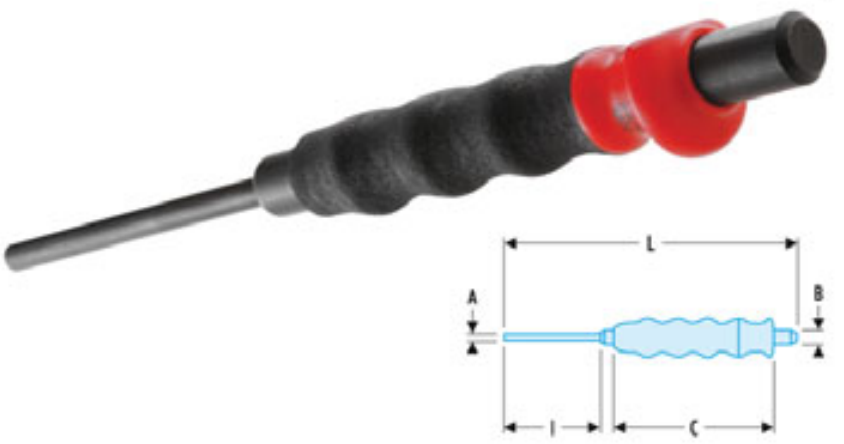
- *Comfortable grip ensures an accurately aimed blow.*
- *Stability of tool ensures a more powerful blow.*



249G Sheathed drift punches

- Long shank.
- Head hardened to 43 HRc.
- Shank hardened to 58 HRc.

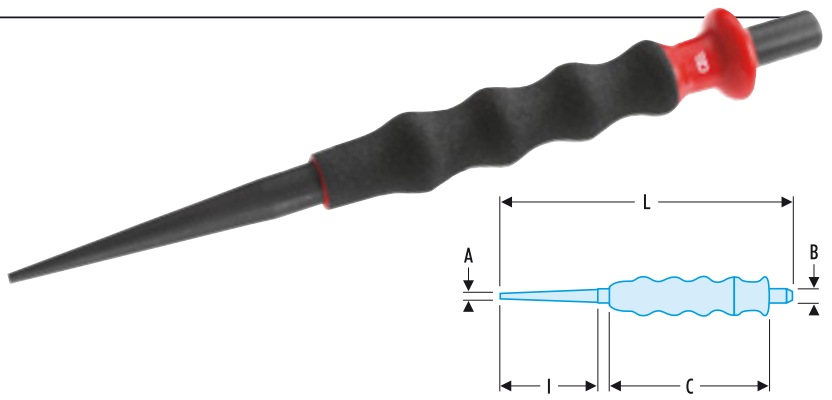
	Ø A mm	Ø B mm	l mm	L mm	C mm	ΔΔ g
249.G2	1,95	8	35	140	105	88
249.G3	2,95	8	45	150	105	90
249.G4	3,95	10	60	190	105	94
249.G5	4,95	10	70	200	105	98
249.G6	5,90	12	80	210	105	142
249.G8	7,90	12	86	216	105	158
249.G10	9,80	14	100	230	105	181
249.G12	11,80	16	130	280	105	380
249.G14	13,80	18	140	290	105	490
249.G16	15,70	18	160	310	105	580



247G Sheathed nail sets

- Head hardened to 36-44 HRc.
- Tip hardened to 52-60 HRc.

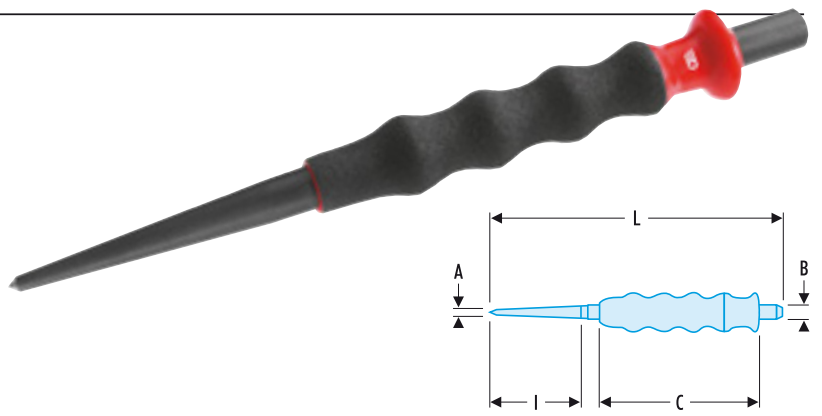
	Ø A mm	Ø B mm	l mm	L mm	C mm	⚖ g
247.G2	1,9	10	55	185	105	102
247.G3	2,9	10	55	185	105	106
247.G4	3,9	10	55	185	105	109
247.G5	4,9	10	55	185	105	112
247.G6	5,9	10	55	185	105	115
247.G8	7,8	12	55	185	105	173



255G Sheathed centre punches

- Head hardened to 36-44 HRc.
- Tip hardened to 57-60 HRc.

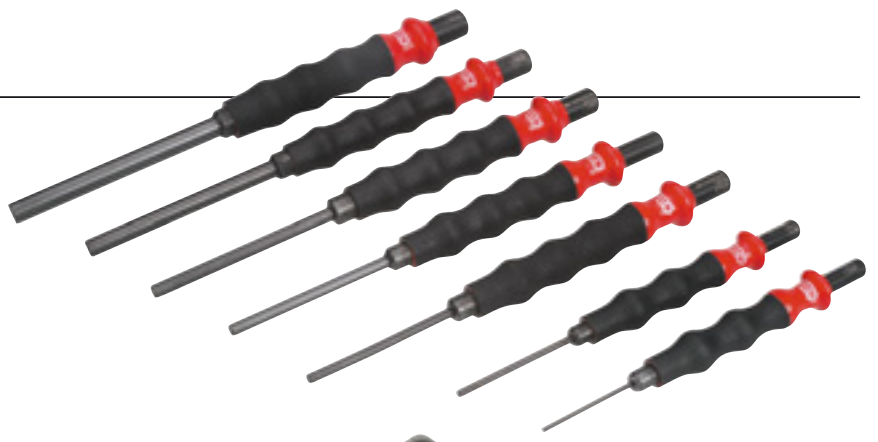
	Ø A mm	Ø B mm	l mm	L mm	C mm	⚖ g
255.G2,5	2,5	10	55	185	105	104
255.G4	4	10	55	185	105	110
255.G6	6	10	55	185	105	116
255.G8	8	12	55	185	105	174
255.G10	10	14	55	185	105	210



Sets of sheathed impact tools

- Sets of punches and nail sets.

	Set contents
249.GJ5	249.G3 - 4 - 5 - 6 - 8
249.GJ7	249.G2 - 3 - 4 - 5 - 6 - 8 - 10
249.G247GJ12	249.G2 - 3 - 4 - 5 - 6 - 8 247.G2 - 3 - 4 - 5 - 6 - 8
249.GJ4	249.G10 - 12 - 14 - 16



Sheathed drift punch modules

MOD.CG

- 6 drift punches 249G : 2-3-4-5-6-8 mm.
- 4 nail sets 247G : 4-5-6-8 mm.
- 1 centre punch 255.G6.
- Tray PL.330.

⚖ : 1.47 kg.

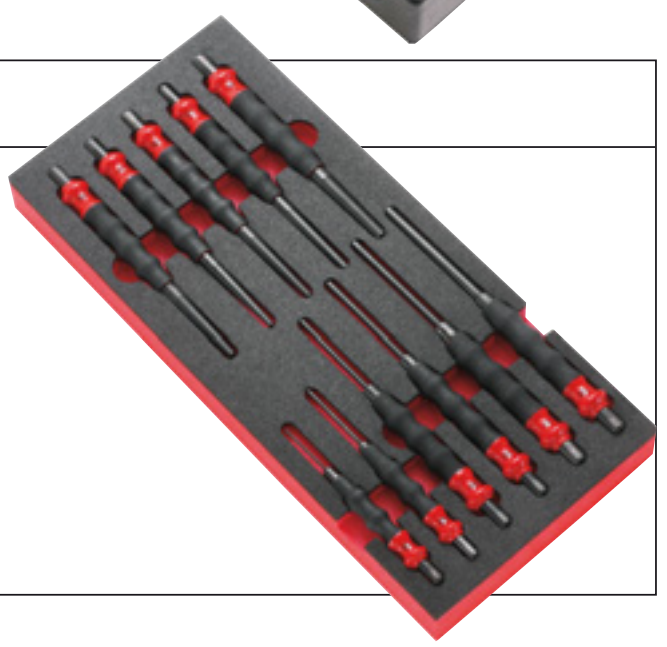
New

Foam modules of sheathed drift punches

MODM.CG

- 6 drift punches 249G : 2-3-4-5-6-8 mm.
- 4 nail sets 247G : 4-5-6-8 mm.
- 1 centre punch 255.G6.
- Tray PM.MODCG.

⚖ : 1.47 kg.



Sheathed automatic centre punch

257.G

- Simply press the end to release spring impact.
- Impact adjustable from 15 to 25 kg by turning the end.
- Ergonomic Facom handle.
- Tip hardened to 57-60 HRc.

⚖ : 175 g.

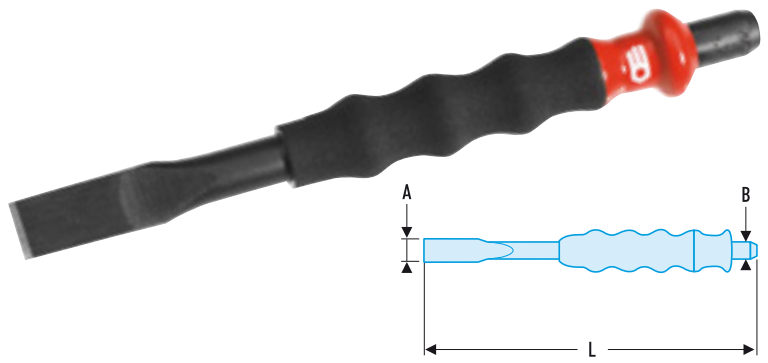
263.G Sheathed chisels

- Engineers chisels.
- Hardness :

- Edge = 57 - 60 HRc
- Striking head = 36 - 44 HRc.

- Angle of edge : 60°.

	L mm	A mm	Ø B mm	⚖ g
263.G19	190	15	12	165
263.G20	200	20	16	305
263.G22	220	25	18	415



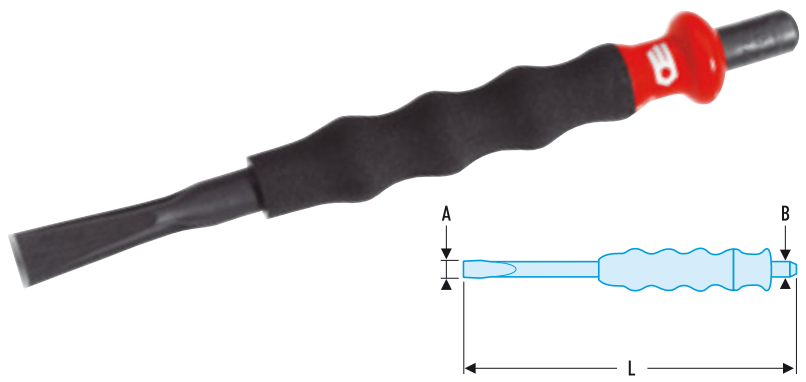
Sheathed cape chisels

265.G18

- Hardness :

- Edge : 57-60 HRc.
- Striking head : 36- 44 HRc.

	L mm	A mm	Ø B mm	⚖ g
265.G18	180	10	10	110



Set of sheathed tools

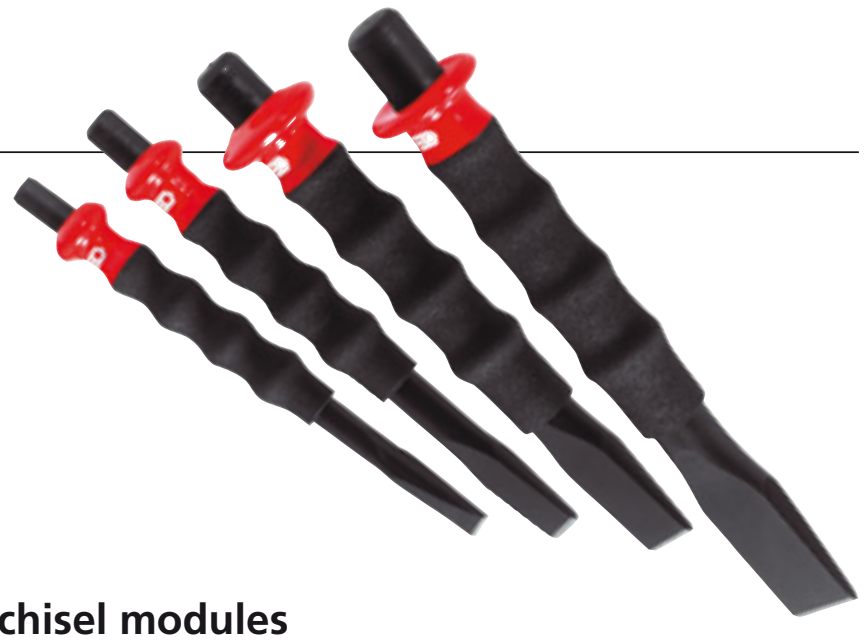
263.GJ4

- Comprising :

- Flat chisels 263.G 19, 20, 22 .
- Cape chisel 265.G18

- Supplied in a cardboard box.

⚖ : 1.005 kg.D : 1,005 kg.



Sheathed drift punch, flat chisel and cape chisel modules

MOD.CG1

- 249.G 12-14-16 mm.
- 263.G 19-20-22.
- 265.G 18.
- Tray PL.611.

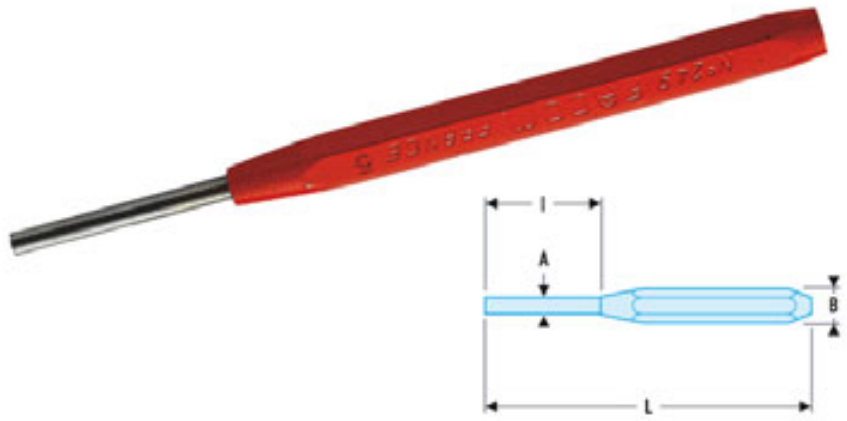
⚖ : 3 kg.

Drift punches

249 Standard drift punches

• Hexagonal shank, high-strength steel tip, hardened to 52-58 HRc.

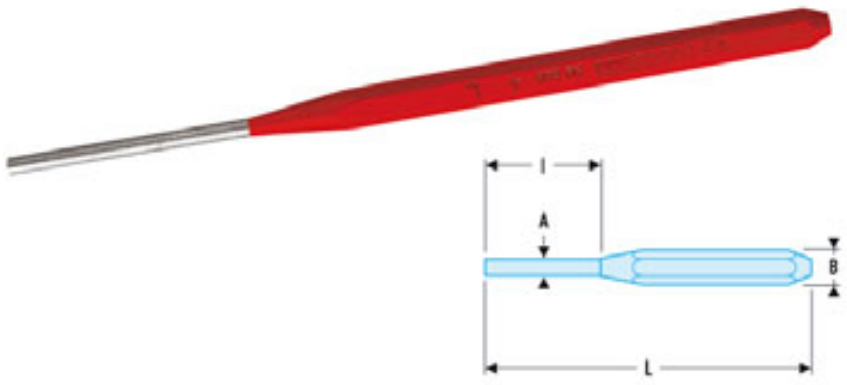
	Ø A mm	B mm	l mm	L mm	⚖ g
249.2	1,9	8	25	105	30
249.3	2,9	8	30	120	35
249.4	3,9	10	35	135	65
249.5	4,9	10	40	150	75
249.6	5,9	12	45	165	120
249.8	7,9	12	50	180	140
249.10	9,9	16	55	195	170



248 Long drift punches

• Hexagonal shank, high-strength steel tip, hardened to 52-58 HRc.

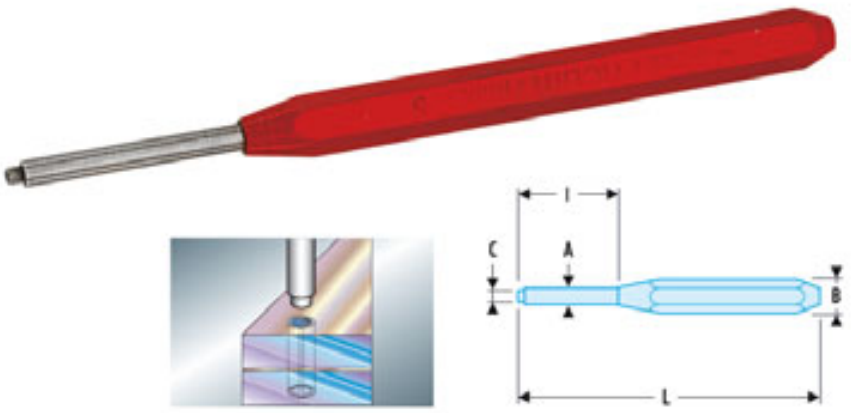
	Ø A mm	B mm	l mm	L mm	⚖ g
248.2	1,9	8	35	165	45
248.3	2,9	8	40	170	50
248.4	3,9	8	50	175	55
248.5	4,9	10	55	180	85
248.6	5,9	10	60	185	90
248.8	7,9	12	65	190	135
248.10	9,9	12	75	200	200



246 Drift punches for spring pins

• Shouldered tip accurately centres into split pins.

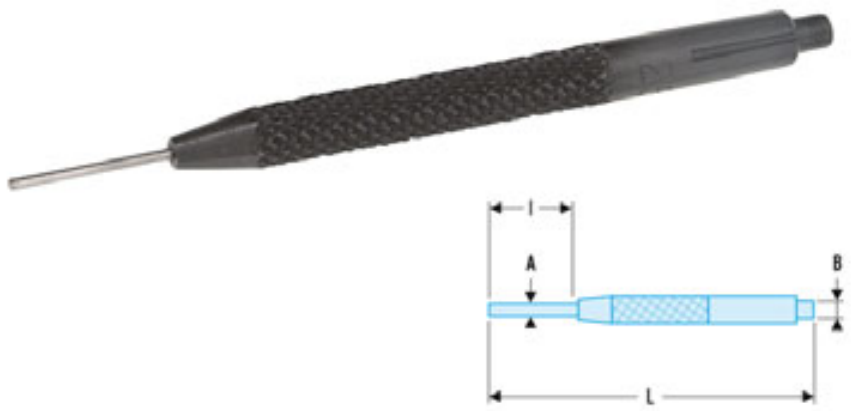
	Ø A mm	B mm	Ø C mm	l mm	L mm	⚖ g
246.2	1,9	8	1,0	25	105	30
246.3	2,9	8	1,8	30	120	35
246.4	3,9	10	2,4	35	135	45
246.5	4,9	10	3,0	40	150	75
246.6	5,9	12	3,6	45	165	120
246.8	7,9	12	5,1	50	180	140



251A Precision sleeved drift punches

• The centre slides within a guide to prevent distortion, even in smaller sizes.
• Nickel shank, polished tip.

	Ø A mm	B mm	l mm	L mm	⚖ g
251A.1	0,9	5	12	70	5
251A.1,5	1,4	6	15	80	10
251A.2	1,9	6	18	83	10
251A.2,5	2,4	7	21	92	18
251A.3	2,9	7	24	95	20
251A.3,5	3,4	8	27	97	25
251A.4	3,9	8	30	100	30
251A.5	4,9	10	33	109	45
251A.6	5,9	12	36	112	65

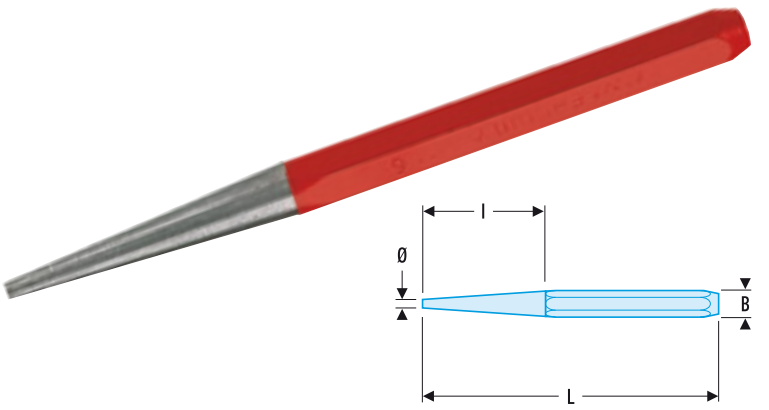


Nail sets

247 Standard nail sets

- Hexagonal shank, high-strength steel tip, hardened to 40-46 HRc.
- Paint-finish shank, polished tip.

	Ø mm	B mm	L mm	l mm	ΔΔ g
247.2	1,6	8	105	40	35
247.3	2,0	8	120	45	40
247.4	2,8	10	135	50	70
247.5	4,0	10	150	55	80
247.6	4,8	12	160	60	120
247.8	7,0	12	180	65	140



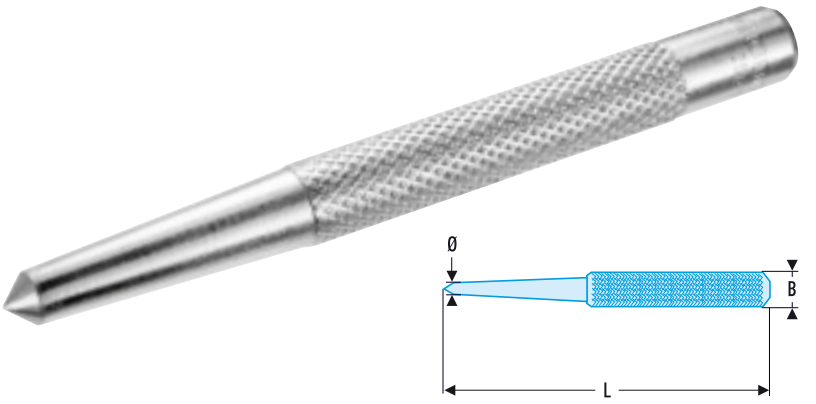
Centre punches

256 Precision centre punches

▷ NF E 71-211.

- Forged in chrome-vanadium steel, hardened to 52-58 HRc.
- Knurled body.
- Chrome finish.

	Ø mm	B mm	L mm	ΔΔ g
256.2,5	2,5	7	100	25
256.4	4	8	105	35
256.6	6	10	115	60
256.8	8	12	130	100
256.10	10	14	130	135



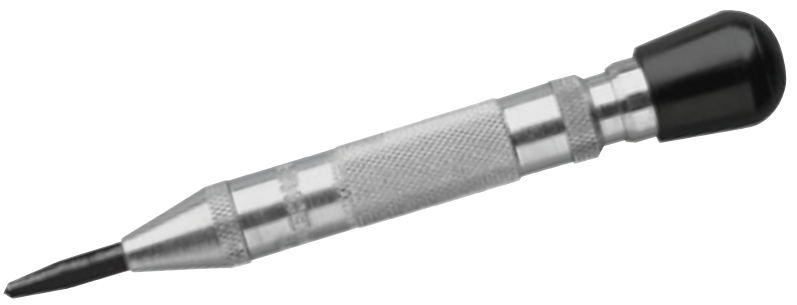
Automatic centre punch

257

- Simply press the end to release spring impact.
- Impact strength adjusted by turning the knurl.
- Effective load 11 to 22 kg.
- Chromed body, greased tip.
- Length : 140 mm, shank Ø 16 mm, tip Ø 3.5 mm.

ΔΔ : 135 g.

	Description
257.07	Interchangeable tip



Sets

Punch sets

- JS in rack.
- JT in wallet.
- For 249.JT7 : wallet N.38A-7B.
- For 248.JT7 : wallet N.38A-7B.
- For 251A.JT9 : wallet N.38A-9C.
- For 247.265JT10 : wallet N.38A-10B.

	Set contents	L x l x H mm	Stand	ΔΔ kg
249.JS7	249.2-3-4-5-6-8-10	120x195x45	CKS.31A	0,868
249.JT7	249.2-3-4-5-6-8-10	230x120	-	0,755
248.JS6	248.2-3-4-5-6-8	120x190x45	CKS.29A	0,588
248.JT7	248.2-3-4-5-6-8-10	265 x 120	-	0,695
246.JS6	246.2-3-4-5-6-8	120x190x45	CKS.29A	0,593
246.JT6	246.2-3-4-5-6-8	200x165	-	0,545
251A.JS9	251A.1-1.5-2-2.5-3-3.5-4-5-6	120x115x45	CKS.32A	0,354
251A.JT9	251A.1-1.5-2-2.5-3-3.5-4-5-6	180 x 120	-	0,260
247.249JS12	247.2-3-4-5-6-8 / 249.2-3-4-5-6-8	120x180x47	CKS.33A	1,076
247.265JT10	247.3-4-5 / 256.4-6 / 249.3-4-5 / 263.20 / 265.18	180x120 / 240x60	-	1,155

Impact tool module

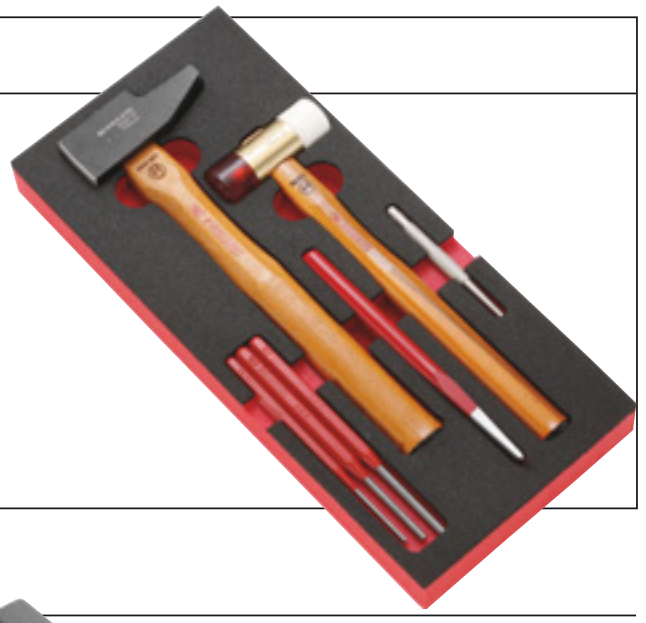
MOD.MI1

200H.32 Hammer.
208A.32CB Mallet.
263.20 Chisel.
256.6 Centre punch.
248. Long drift punches 4 - 5 - 6 mm.
• Complete with tray PL.333.
⚖ : 1.800 kg.

New

Foam module of impact tools

MODM.MI1



200H.40 Hammer.
208A.32CB Mallet.
263.20 Chisel.
256.6 Centre punch.
248. Long drift punches 4 - 5 - 6 mm.
• Complete with tray PM.MODMI1.
⚖ : 1.8 kg.

Impact tool module 205

MOD.MI3

205A.50 Hammer.
208A.32CB Mallet.
263.18 Chisel.
256.6 Centre punch.
248. Long drift punches 4 - 5 - 6 mm.
• Complete with tray PL.333.
⚖ : 1.710 kg

New

Foam module of impact tools

MODM.MI3

205H.100 Hammer.
208A.32CB Mallet.
263.20 Chisel.
256.6 Centre punch.
248. Long drift punches 4 - 5 - 6 mm.
• Complete with tray PM.MODMI3.
⚖ : 1.8 kg.

Impact tool module 202

MOD.MI4

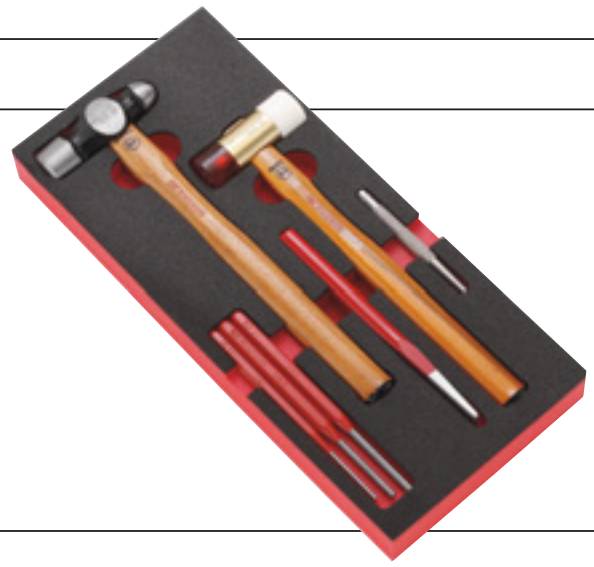
202H.1/2 Hammer.
208A.32CB Mallet.
263.18 Chisel.
256.6 Centre punch.
248. Long drift punches 4 - 5 - 6 mm.
• Complete with tray PL.333.
⚖ : 1.45 kg.

New

Foam module of impact tools

MODM.MI4

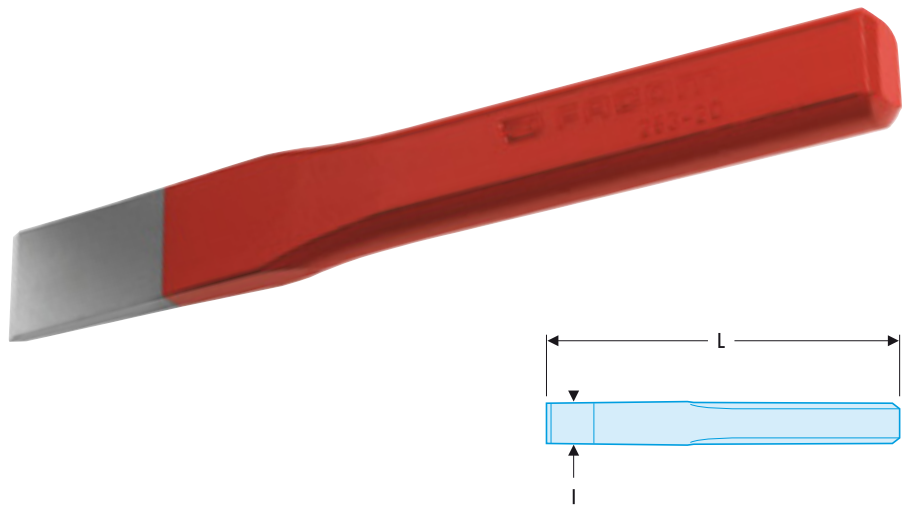
202.A1 Hammer.
208A.32CB Mallet.
263.20 Chisel.
256.6 Centre punch.
248. Long drift punches 4 - 5 - 6 mm.
• Complete with tray PM.MODMI4.
⚖ : 1.8 kg.



Flat chisels - Cape chisels

263 Flat chisels - 265 Cape chisels

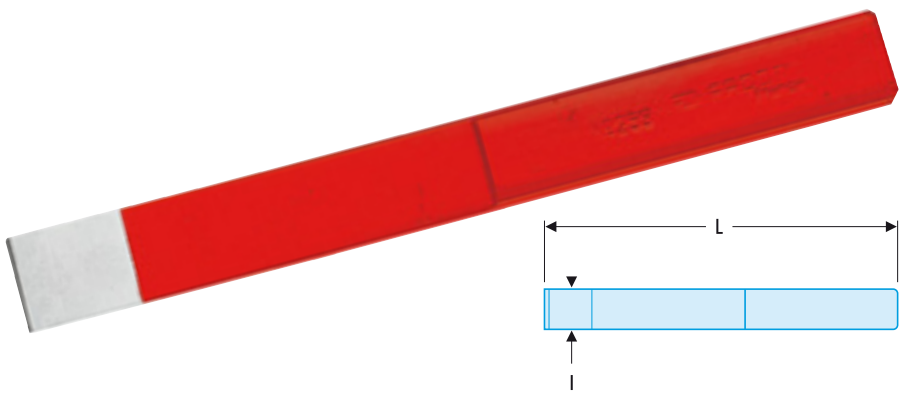
263 : Constant-profile flat chisels.
263.P : Chisels with guard.
265 : Constant-profile cape chisel.
• Forged in chrome-vanadium steels, tip hardened to 57 HRc.
• Regrindable tip.
• Head treated against mushrooming.
• Paint finish.
• Ø 85 mm guard (263.P).



	l mm	L mm	⚖ g
263.15	21	150	200
263.18	21	180	250
263.20	24	200	350
263.22	24	220	400
263.25	27	250	520
263.30	27	300	640
263.P25	27	250	610
263.P30	27	300	710
265.18	8	180	240
265.20	10	200	330
265.22	12	220	370

259 Flat chisels

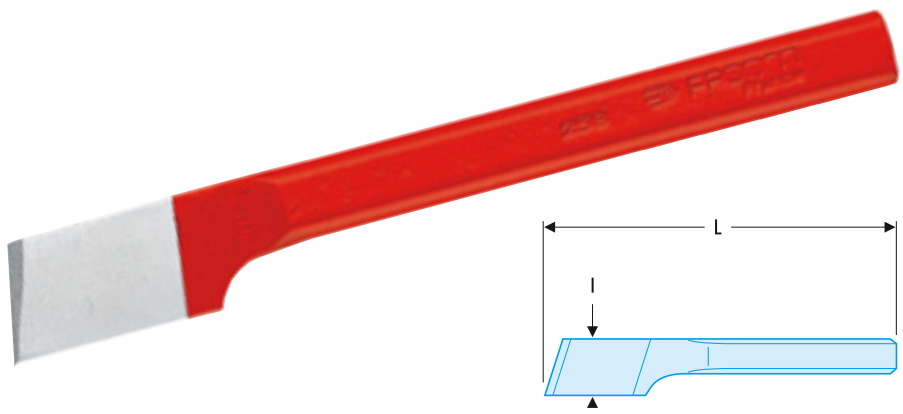
259 : Slim-profile chisel.
259.P : Slim chisel with guard. Ø 85 mm.
• Forged in chrome-vanadium steels, tip hardened to 57 HRc.
• Paint finish.



	l mm	L mm	⚖ g
259	26	235	240
259.P	26	235	350

Special chisels

• Forged in chrome-vanadium steels, tip hardened to 57 HRc.
• Regrindable tip.
• Head treated against mushrooming.
• Paint finish.
• Ø 85 mm guard.

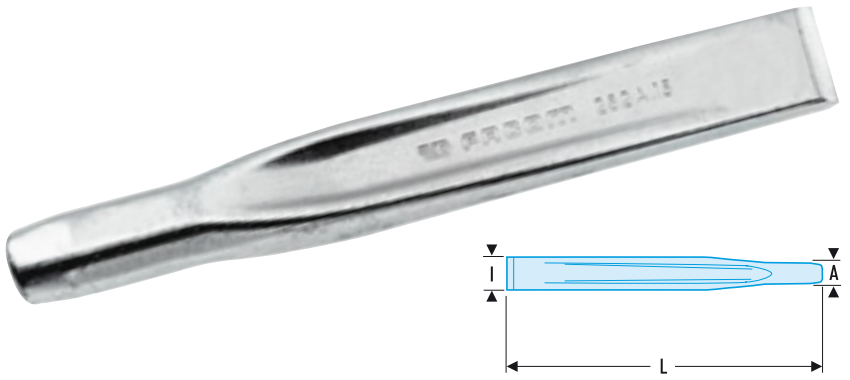


	l mm	L mm	⚖ g
258	25	200	220
260.P	60	250	630

262A Round-headed ribbed chisels

▷ Standard UNI 7506.
- Forged chisel with rounded edges for improved grip.
- Cylindrical head for increased safety.
- Tip hardness 57 to 59 HRc.
- Tip angle 60°.
- Zinc finish.

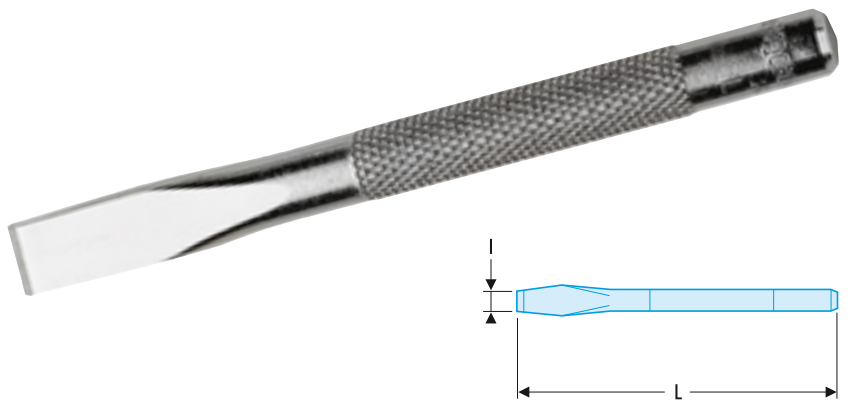
	L mm	l mm	A mm	⚖ g
262A.15	150	21	16	170
262A.18	180	24	18	250
262A.20	200	26	18	340
262A.25	260	29	21	500



Precision chisels

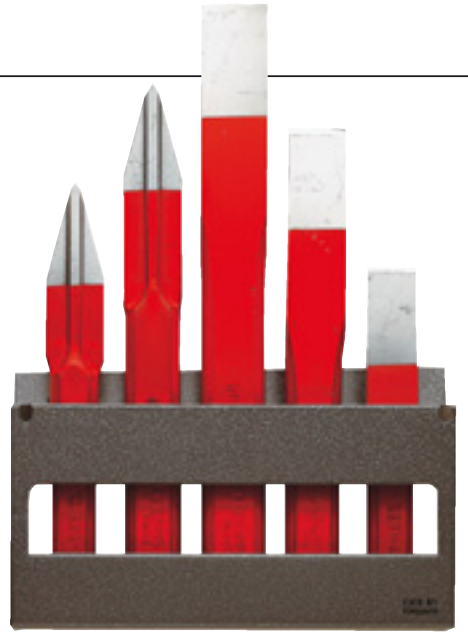
252 : Precision flat chisel.
254A : Precision cape chisels.
- Knurled body.

	l mm	L mm	⚖ g
252.8	10	115	40
252.10	12	125	70
254A.8	8	115	40
254A.10	10	120	60



Chisel sets

	Set contents	L x l x H mm	Stand	⚖ kg
263.265JS5	263.15-20-25 265.18-22	255 x 180 x 30	CKS.81A	1,85
252.254JS4	252.8-10 254A.8-10	120 x 180 x 25	CKS.28A	0,27

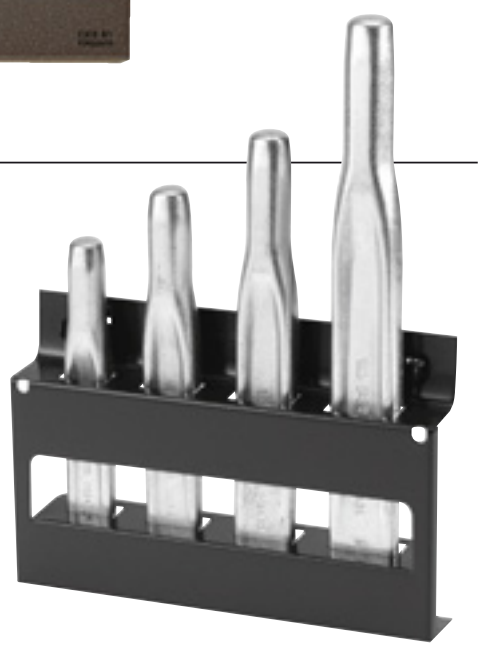


Chisel sets

262A.JS4

For your safety :
- Always check the state of your tools before use.
- Do not use tools showing signs of wear, mushrooming, chipping or cracking.
- Wear eye protection and gloves.

	Set contents	L x l x H mm	Stand	⚖ kg
262A.JS4	262A.15-18-20-25	180 x 30 x 250	CKS.80B	1,44



FACOM
660A.10 BI METAL

11. Sawing, cutting, drilling

Sawing 484

Hacksaw frames 484
Hacksaw blades 486

Files 486

File sets 487
Engineers files 489
Milled files 490
Saw files 491
Wood rasps 491
Precision files 492

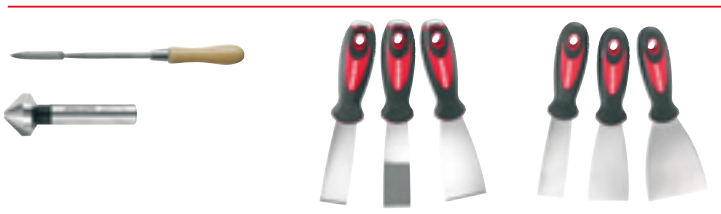
Workshop drill bits, taps and dies 493

Taps 493
Dies 493
Threading and tapping tool sets 494
Thread restoring tools 494
Tools for taps and dies 494
Workshop drill bits 495
Bits for impact machinery 497
Bits for hammer drills 497

Holesaws 498

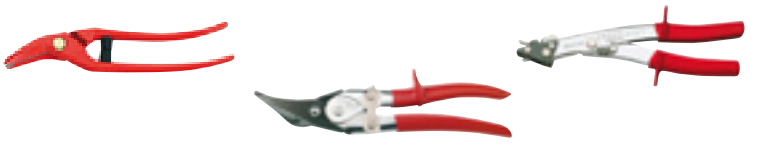
Variable pitch holesaws 498
Holesaw sets 498

Mills, scrapers 499



Mills 499
Scrapers 500

Metal shears 500



Bolt croppers 503

Mini croppers and wire cutters 504

Cable cutters 504

Copper and aluminium cable cutters 504
Steel cable cutters 505

Utility knives 506

Trapazoid blade knives 506
Snap-off blade knives 507
Blades 508

Scissors 511

Knives 512

Punch kits 514

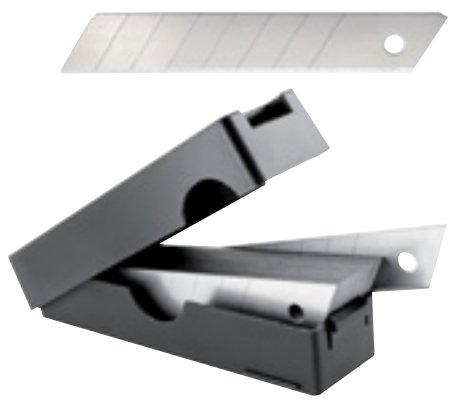
Safety for professional applications

Advantages

- **UTILITY KNIFE 844.S18**
  - Ergonomic handle
  - Stainless steel blade guide
  - 6-blade loader for automatic blade change

- **SAFETY KNIFE 844.D**
  - Maximum safety: blade automatically retracts after use
  - Used with trapezoid blades

- **SNAP-OFF BLADES**
  - 7 to 12 segments
  - Ideal for all everyday cutting tasks



- **TRAPEZOID BLADES**
  - High strength
  - Clean cut
  - Intensive use

N 506

NEW

For an effortless, clean cut

Advantages

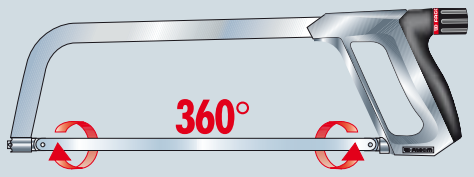
- Precision blades
- 2 opening positions to adjust to the size of your hand
- Locks in closed position
- Comfortable bi-material handle

N 510

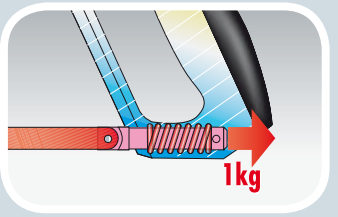
Hacksaw frame

Workshop hacksaw frame 603E

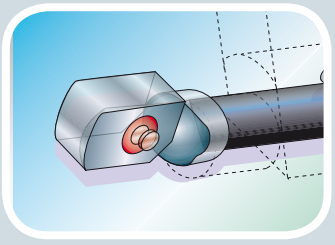
OPTIMUM BLADE USAGE



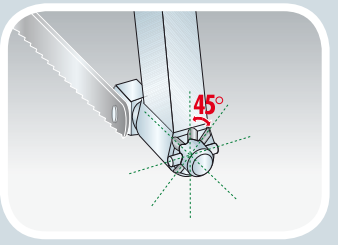
Blade rotation through 360° without removal.



Spring pre-tensioning for easy blade fitting and adjustment.



Machined and shouldered pins for secure blade retention.



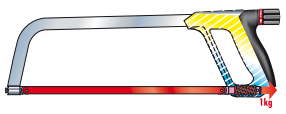
45° cutting angle increments.

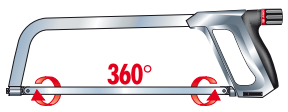
Hacksaw frame

603E

▷ DIN 6473, NF E 73-073.
- Tension : in excess of 100 kg ; 20, 000 PSI.
- Metal bow takes 300 mm blade
- 429 x 137 mm.

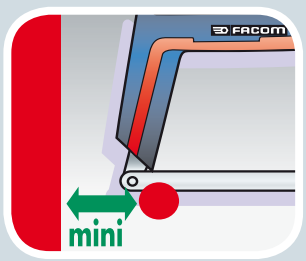
⚖ : 760 g.



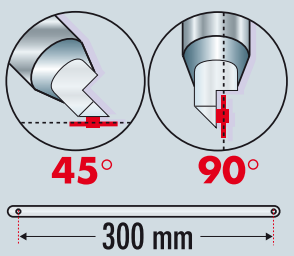


"Travelling" hacksaw frame 601

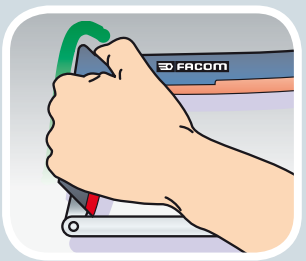
PRACTICAL AND COMPACT



Minimum clearance to start cutting.

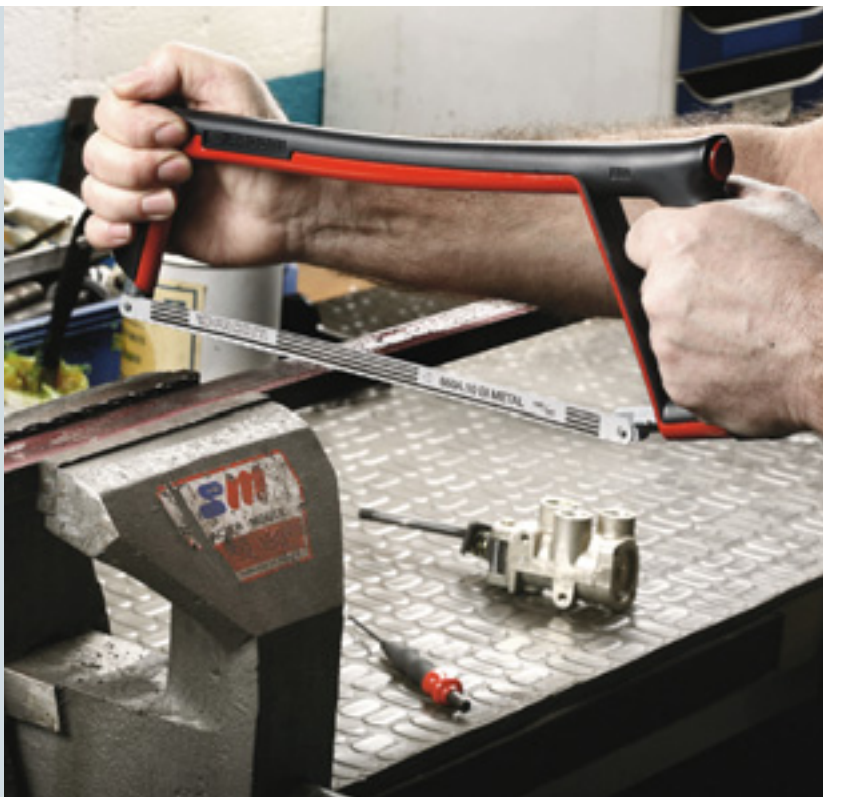


2 blade positions on machined and shouldered pins.



Left-hand rest.

Compact: stored in a 5-compartment box and in roller-cabinet modules.

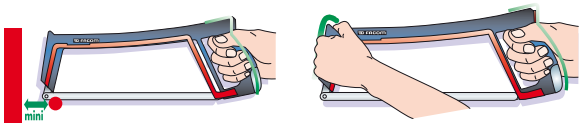


Hacksaw frame

601

- Impact-resistant steel/resin construction.
- Blade tension 80 kg
- 385 x 145 mm.

⚖ : 590 g.



Saw, tape measure and files module

MOD.601

- Comprising :

- 601 : Hacksaw frame
- 660A.10 : 10 hacksaw blades.
- 234.S : Scriber
- 803-300M : Rule.
- 5 files with handle : PAM.B300EM ; DRD.MD250EM ; CAR. MD200EM ; TRI.MD200EM ; RD.M200EM.
- 1712 : Tape measure.

- Tray PL.335 (complete drawer).

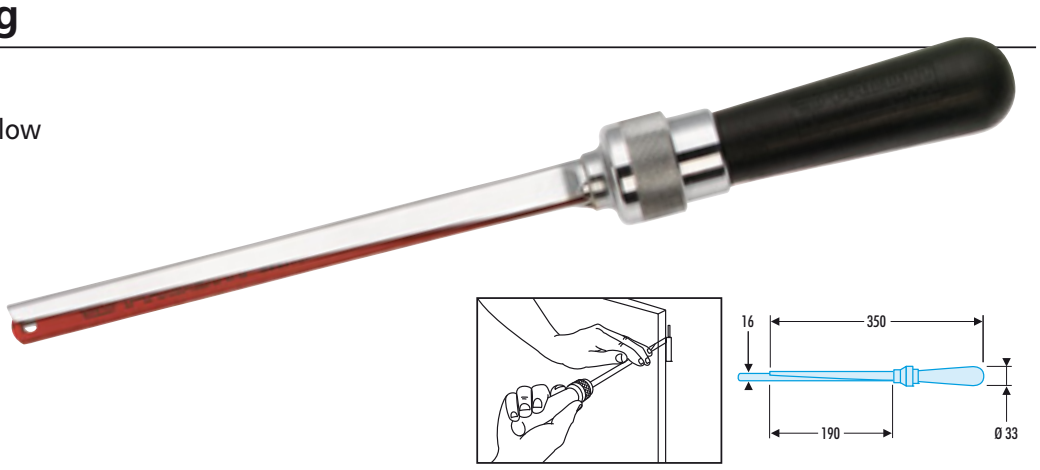
⚖ : 2.3 kg.

Straight frame with blade backing

606A

- Blade can be set to protrude beyond the backing to allow insertion into narrow gaps.

⚖ : 410 g.

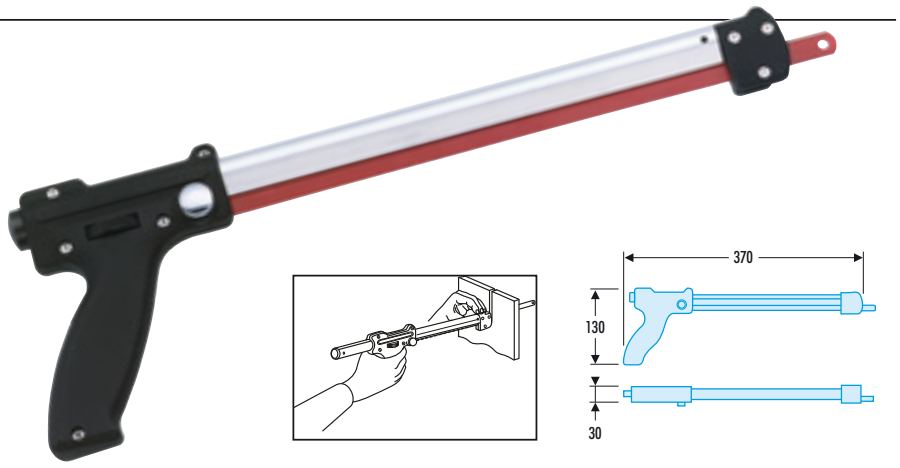


Revolver frame with sliding blade-guide

605.B

- Sliding guide steadies blade throughout cutting stroke.
- A thumbscrew can lock the guide to keep blade end clear.
- Takes 300 mm blade.

⚖ : 780 g.



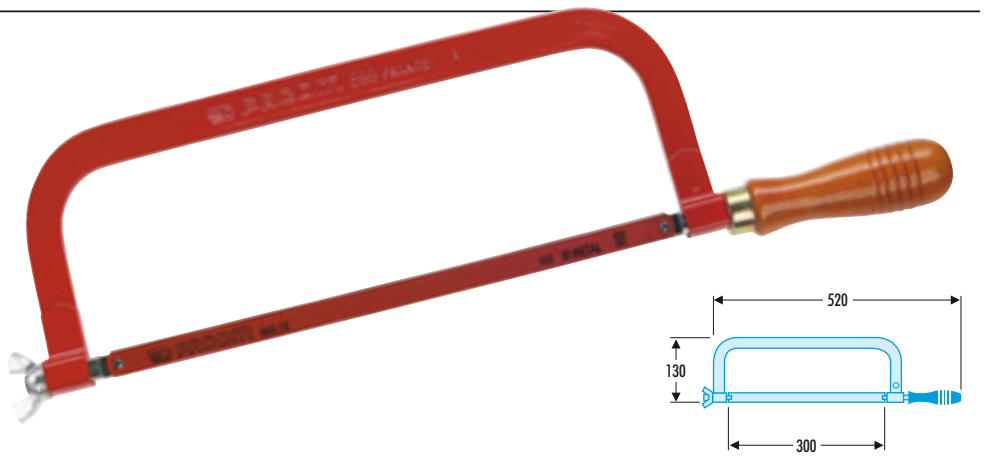
Hacksaw frame

599

▷ NF E 73-073, DIN 6473.

- Flat bow.
- Wood handle.
- Takes 300 mm blade.

⚖ : 600 g.



Hacksaw blades

660A. Bimetal blades

▷ ISO 2336-1, DIN 6494, NF 73-072.

• High-alloy HSS teeth with spring-steel back. Flexibility and tooth hardness combine to ensure long service in a variety of applications and where difficult access prevents steadying the workpiece.

• Blade length 300 mm.

• Available in multiples of 10 blades. E.g. : 20 x 660A. 10 =20 blades.

⚖ : 2.5 kg.

	Teeth/cm	Teeth/inch
660A.8	8	18
660A.10	10	24
660A.12	12	32

666A Super HSS blades

▷ ISO 2336-1, DIN 6494, NF 73-072.

• Recommended for a wide range of heavy-duty applications such as die, tool and stainless steel.

• Blade length 300 mm.

• Available in multiples of 10.

E.g. : 20 x 666A. 10 =20 blades.

⚖ : 2.5 kg.

	Teeth/cm	Teeth/inch
666A.8	8	18
666A.10	10	24
666A.12	12	32

Files

File selection guide

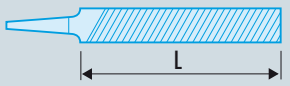
FACOM technical specifications.

- *Made from high carbon-content steels.*
- *Optimum heat treatment for each application.*
  - *64 to 66 HRc for engineers files.*
  - *53 to 56 HRc for rasps.*
  - *65 to 67 HRc for sharpening files.*

File selection recommendations.

Four criteria apply :

1. *Shape or cross-section.*
2. *Pattern according to material.*
3. *Grade according to operation.*
   - *Standard files :*
     - *B Bastard cut for rough filing,*
     - *MD Second cut for general purpose,*
     - *D Smooth cut for finishing.*
   - *Precision files :*
     - *T0 Bastard cut for rough filing,*
     - *T2 for normal smooth filing*
     - *T4 for finishing.*
4. *File length.*
   - *Lengths quoted are always without tang.*



MAIN SHAPES		
FLAT PAM	HALF ROUND DRD	ROUND RD
KNIFE CT	THREE-SQUARE TRI	SQUARE CAR

PATTERN SELECTION ACCORDING TO MATERIAL		Steel	Cast Iron	Brass	Hard plastics, wood etc.	Aluminium and soft materials
Double cut for steel and metals.		●	●	●	●	
Single cut for good surface finish, sharpening saws, lathe filling and fitters' requirements.		●				
Dreadnaught, for soft materials, sheet sheet metal, etc. Leaves a smooth finish.		●		●	●	●
Rasp for soft materials and wood. Produces a rough surface.					●	●

Handles for files and rasps

MAN : Varnished wood handles with nickel-plated steel ferrule.
Supplied in boxes of 12.
MP : Plastic handles. Supplied singly.

	Files	Length files mm
MAN.0	Flat, half-round, round	300
MAN.1	Three square straight	175
	Three square straight	200
	Flat, half-round, flat warding, cant, pillar, knife, three-square straight	250
	Square, three-square	300
MAN.2	Flat warding, cant, pillar, knife, three-point square	150
	Three-square tapered	175
	Flat, half-round, three-square, flat warding, cant, pillar, knife	200
	Round	250
MAN.3	Flat, half-round, flat warding, cant, pillar, knife	100
	Flat, half-round, three-square	150
	Square, round	200
MAN.4	Square, round three-square tapered	100
	Round, three-square tapered	125
	Round, three-square tapered	150
MP.0	Three square straight	250
	Flat half-round aluminium, flat, half-round, square, round, three-square, Milled, turners	300
MP.1	Three square, three-square straight	200
	Flat, half-round, round, flat warding, cant, pillar, knife, Turners	250
MP.2	Three square straight	175
	Flat, half-round, flat warding, cant, pillar, knife	200
MP.3	Flat, half-round, three-square, flat warding, cant, pillar, knife, three-square straight	150
	Square, round	200
MP.4	Flat, half-round, flat warding, cant, pillar, knife	100
	Round,Round for chainsaws	150
	Round for chainsaws	200

File card

270.A

- For cleaning electrodes and threads.
- Integral thickness gauge (5/10mm).
- 185 x 30 x 25 mm.

⚖ : 42 g.

	Description
270.C	Spare card

File sets

Set of 5 files

STG

- Set of 5 files with varnished wood handles, for general engineering and automotive applications.
- Comprising :

- PAM.B 300.
- DRD.MD 250.
- CAR.MD 200.
- TRI.MD 200.
- RD.MD 200.

- Supplied in grey hammer-finish wall-rack CKS.35A.

⚖ : 1.265 kg.

Set of 9 files

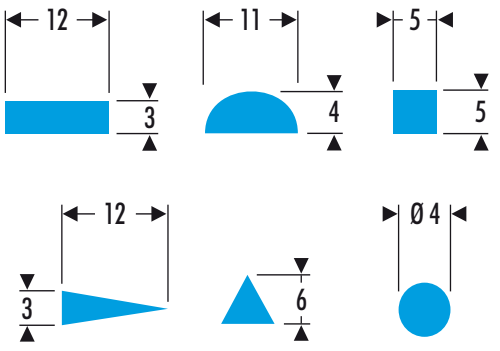
STU

• Set of 9 files and rasps for engineering and industrial maintenance.
• Comprising :
- PAM.B300.
- PAM.MD200.
- DRD.B300.
- DRD.MD200.
- RD.MD200.
- CAR.MD200.
- TRI.MD150.
- PDE.MD125.
- RAB.DRDMD250.
• Supplied in grey hammer-finish wall-rack CKS.35A.
⚖ : 2.146 kg.

CLE Sets of 6 locksmiths files

CLE

▷ NFE 75-001, NFE 75-002
• Geneva pattern with wooden handle.
• Available in 3 different cuts.
- CLE.BAM100 (6 bastard cut files).
- CLE.MDAM100 (6 second cut files).
- CLE.DAM100 (6 smooth cut files).
• In plastic wallet : 200 x 105 x 11 mm.
⚖ : 205 g.



AS.RI Set of rifflers

▷ NFE 75-001, NFE 75-002
• Ideal for mould makers and jewellers.

	Number of rifflers	Cut	Length mm	⚖ g
AS.12RI180T0	12	0	180	341
AS.12RI180T2	12	2	180	338
AS.6RI180T0	6	0	180	182
AS.6RI180T2	6	2	180	170

Module of 5 files 200 mm long with handle

MOD.LIMPB

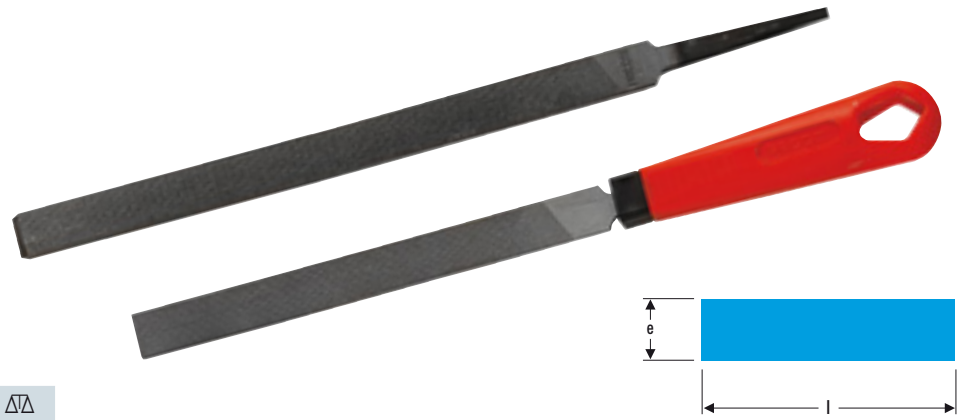
• Flat, half-round, round, square, three-square.
- PAM.B200EM flat.
- DRD.MD200EM half-round.
- CAR.MD200EM square.
- TRI.MD200EM three-square.
- RD.MD200EM round.
• Tray PL.606.
⚖ : 950 g.

Engineers files

PAM - PAM.EM Flat files

▷ NFE 75-001, NFE 75-002

- PAM : Flat files.
- PAM.EM : Flat files with handle.
- 1 safe edge.
- 1 single-cut edge.



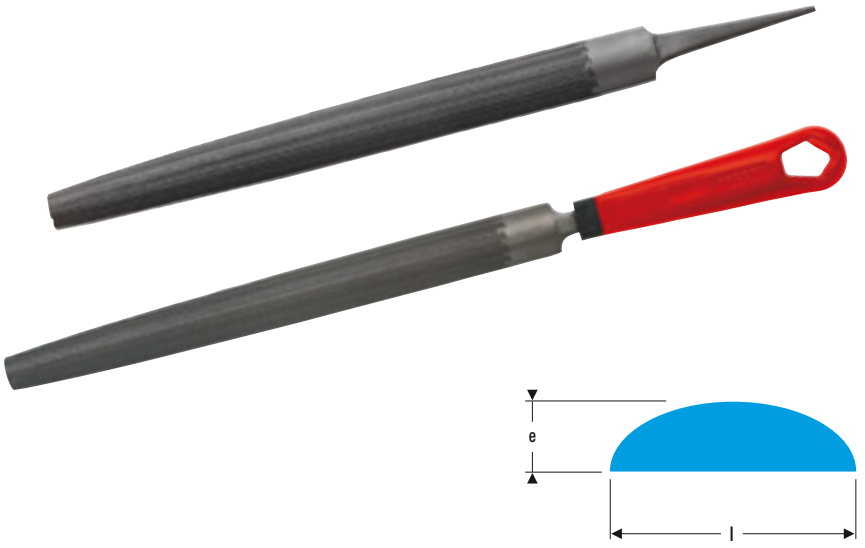
	File type	l x e mm	Length mm		g
PAM.MD100	Second cut	12 x 3	100	12	29
PAM.MD200	Second cut	20 x 5	200	12	163
PAM.MD300	Second cut	30 x 7	300	6	454
PAM.MD150EM	Second cut	15 x 3,5	150	6	118
PAM.MD200EM	Second cut	20 x 5	200	6	209
PAM.MD250EM	Second cut	25 x 6	250	6	351
PAM.D100	Smooth cut	12 x 3	100	12	29
PAM.D200	Smooth cut	20 x 5	200	12	163
PAM.D300	Smooth cut	30 x 7	300	6	454
PAM.D200EM	Smooth cut	20 x 5	200	6	209

	File type	l x e mm	Length mm		g
PAM.B100	Bastard cut	12 x 3	100	12	29
PAM.B200	Bastard cut	20 x 5	200	12	163
PAM.B300	Bastard cut	30 x 7	300	6	454
PAM.B200EM	Bastard cut	20 x 5	200	6	209
PAM.B250EM	Bastard cut	25 x 6	250	6	351
PAM.B300EM	Bastard cut	30 x 7	300	6	528

DRD - DRD.EM Half-round files

▷ NFE 75-001, NFE 75-002

- DRD : Half-round files.
- DRD.EM : Half-round files with handle.

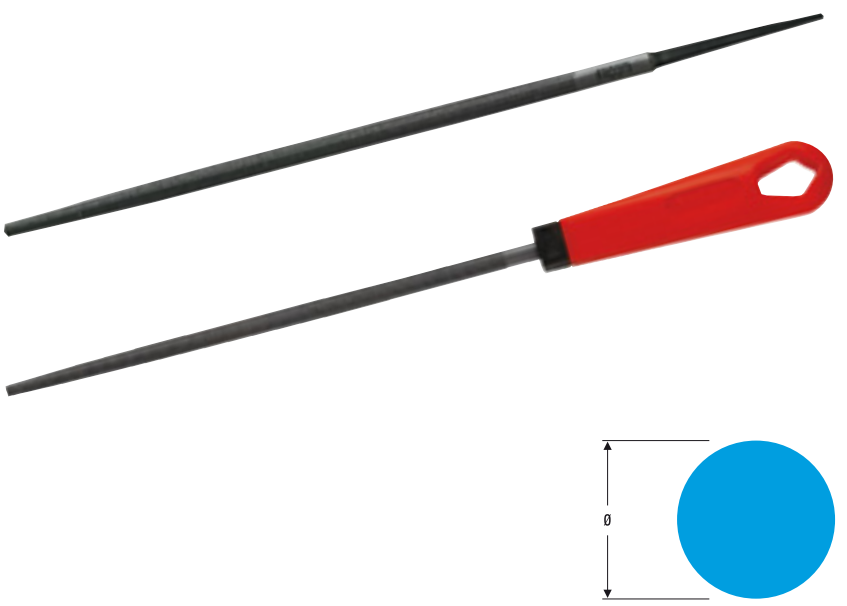


	File type	l x e mm	Length mm		g
DRD.B200	Bastard cut	21 x 6	200	12	133
DRD.B300	Bastard cut	30 x 8,5	300	6	445
DRD.B200EM	Bastard cut	21 x 6	200	6	186
DRD.B300EM	Bastard cut	30 x 8,5	300	6	466
DRD.MD100	Second cut	11 x 3,5	100	12	26
DRD.MD200	Second cut	21 x 6	200	12	133
DRD.MD300	Second cut	30 x 8,5	300	6	445
DRD.MD200EM	Second cut	21 x 6	200	6	186
DRD.MD250EM	Second cut	25 x 7	250	6	293
DRD.D200	Smooth cut	21 x 6	200	12	133
DRD.D300	Smooth cut	30 x 8,5	300	6	445

RD - RD.EM Round files

▷ NFE 75-001, NFE 75-002

- RD : Round files.
- RD.EM : Round files with handle.



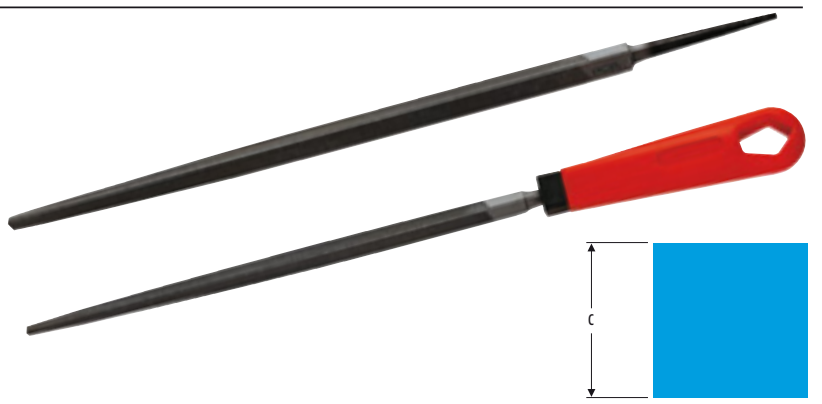
	File type	Length mm	∅ mm		g
RD.B100	Bastard cut	100	4	12	11
RD.B125	Bastard cut	125	5	12	20
RD.B200	Bastard cut	200	8	12	62
RD.B250	Bastard cut	250	10	12	143
RD.B300	Bastard cut	300	12	6	231
RD.B250EM	Bastard cut	250	10	6	156
RD.MD100	Second cut	100	4	12	11
RD.MD125	Second cut	125	5	12	20
RD.MD200	Second cut	200	8	12	62
RD.MD300	Second cut	300	12	6	231
RD.MD150EM	Second cut	150	6	6	56
RD.MD200EM	Second cut	200	8	6	101
RD.D100	Smooth cut	100	4	12	11
RD.D200	Smooth cut	200	8	12	62

CAR - CAR.EM Square files

▷ NFE 75-001, NFE 75-002

- CAR : Square files.
- CAR.EM : Square files with handle.

	File type	c x c mm	Length mm		g
CAR.B200	Bastard cut	8 x 8	200	12	87
CAR.B300	Bastard cut	12 x 12	300	6	318
CAR.MD200	Second cut	8 x 8	200	12	87
CAR.MD300	Second cut	12 x 12	300	6	318
CAR.MD200EM	Second cut	8 x 8	200	6	129
CAR.D200	Smooth cut	8 x 8	200	12	87

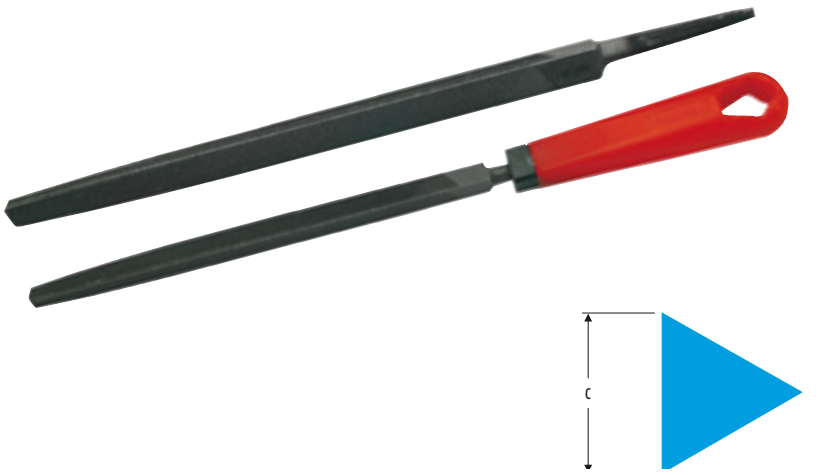


TRI - TRI.EM Three-square files

▷ NFE 75-001, NFE 75-002.

- TRI : Three-square files.
- TRI.EM : Three-square files with handle.

	File type	Length mm	c mm		g
TRI.B150	Bastard cut	150	11	12	78
TRI.B200	Bastard cut	200	15	12	159
TRI.B300	Bastard cut	300	21	6	431
TRI.MD150	Second cut	150	11	12	78
TRI.MD200	Second cut	200	15	12	159
TRI.MD300	Second cut	300	21	6	431
TRI.MD150EM	Second cut	150	11	6	114
TRI.MD200EM	Second cut	200	15	6	208
TRI.D150	Smooth cut	150	11	12	78
TRI.D200	Smooth cut	200	15	12	159



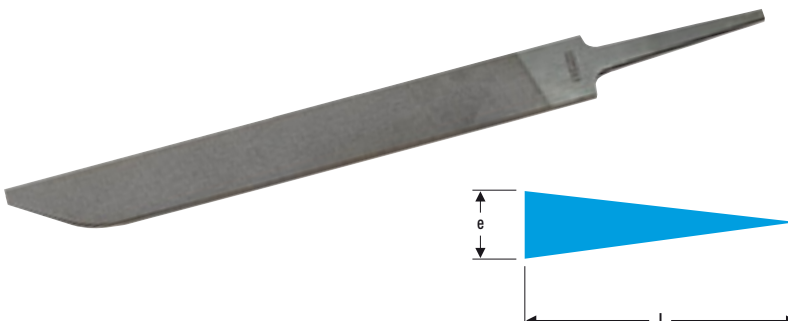
Knife file

CT.MD250

▷ NFE 75-001, NFE 75-002

- Single-cut knife edge.
- Safe edge.

	File type	l x e mm	L mm		g
CT.MD250	Second cut	26 x 6	250	12	186



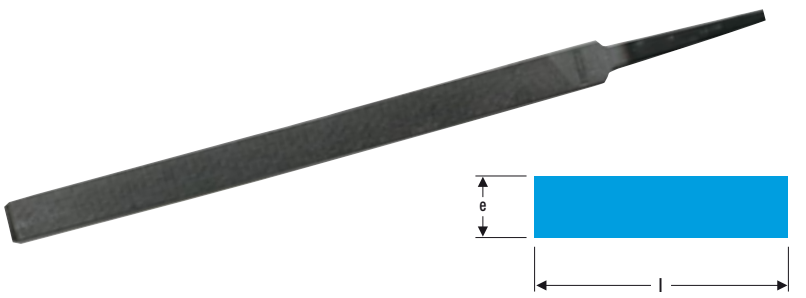
Pillar file

PIL.MD200

▷ NFE 75-001, NFE 75-002

- 1 safe edge.
- 1 single-cut edge.

	File type	l x e mm	L mm		g
PIL.MD200	Second cut	14 x 7	200	12	150

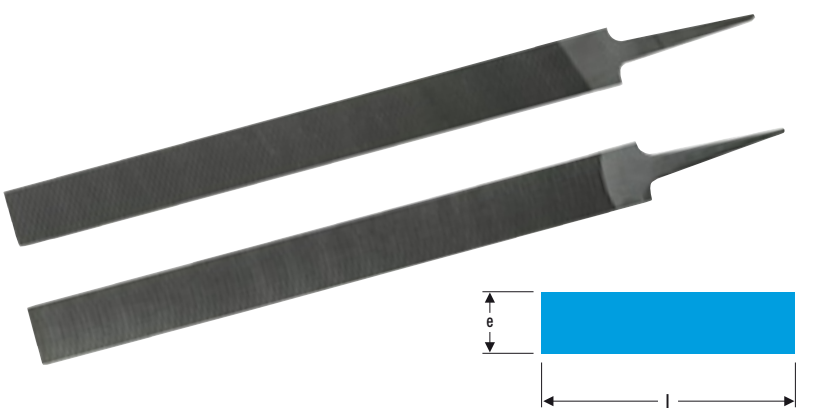


Milled files

FR Milled files

- FR.C : Rigid dreadnought files.
- FR.O : Rigid millenicut files.
- Designed for non-ferrous metals, bronze, brass, laminates and plastics.
- 2 safe edge.

	File type	l x e mm	Teeth per cm	Length mm		g
FRC.B300	Bastard cut	30 x 7,5	3,5	300	6	377
FRC.MD300	Second cut	30 x 7,5	4,7	300	6	393
FRO.B300	Bastard cut	30 x 7,5	3,5	300	6	375
FRO.MD300	Second cut	30 x 7,5	4,7	300	6	382



Saw files

Round file for chainsaws with handle

TRO.5,6EM

▷ NFE 75-001, NFE 75-002.
• Double-cut.

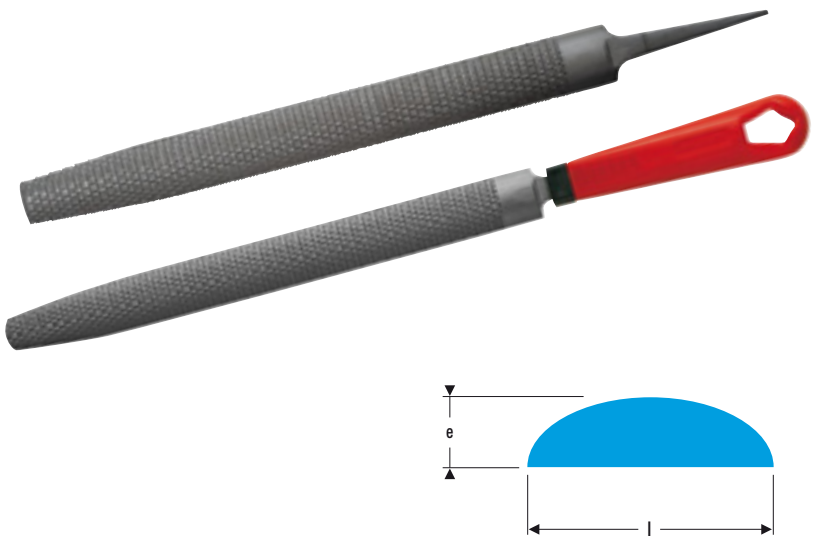
	File type	Length mm	Ø "	Ø mm		g
TRO.5,6EM	Smooth cut	200	7/32	5,6	6	69

Wood rasps

RAB.DRD - RAB.DRDEM Half-round rasps

▷ NFE 75-001, NFE 75-002
• RAB.DRD : Half-round rasps.
• RAB.DRDEM : Half-round rasps with handle.

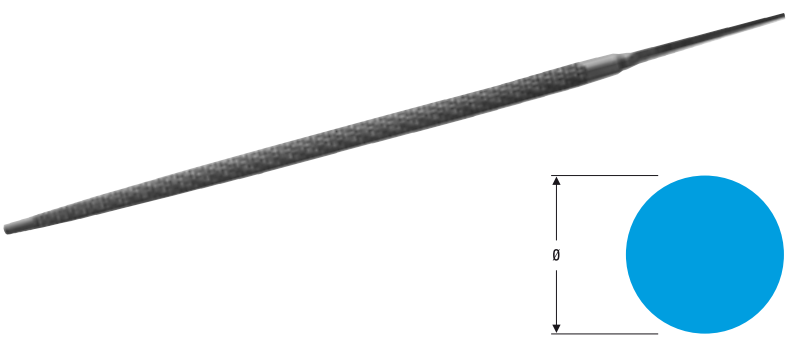
	File type	l x e mm	Length mm		g
RAB.DRDB250	Bastard cut	25 x 7	250	12	256
RAB.DRDB300EM	Bastard cut	30 x 8,5	300	6	480
RAB.DRDMD250	Second cut	25 x 7	250	12	256
RAB.DRDMD300	Second cut	30 x 8,5	300	6	447
RAB.DRDMD250EM	Second cut	25 x 7	250	6	315
RAB.DRDD250	Smooth cut	25 x 7	250	12	256



RAB.RD - RAB.RDEM Round rasps

• RAB.RD : round rasp.
• RAB.RDEM : round rasp with handle.

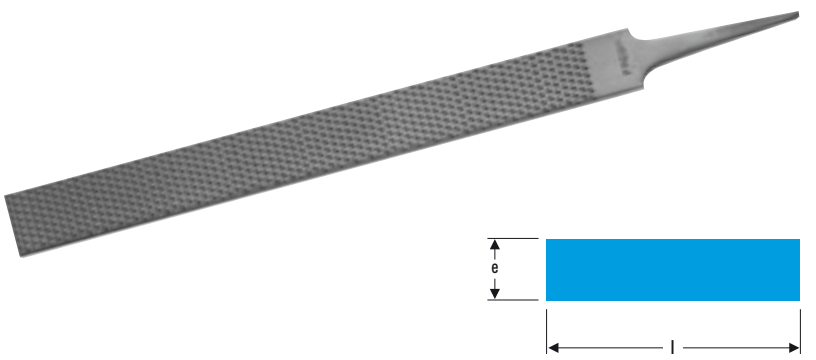
	Length mm	Ø mm		g
RAB.RD250	250	10	12	168
RAB.RD250EM	250	10	6	204



RAB.P Flat rasps

▷ NFE 75-001, NFE 75-002

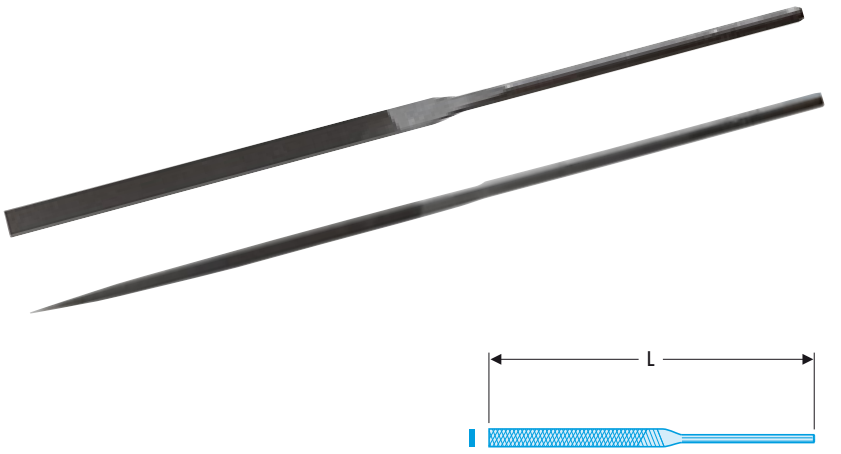
	File type	l x e mm	Length mm		g
RAB.PB250	Bastard cut	25 x 6	250	12	316
RAB.PB300	Bastard cut	30 x 7	300	6	503
RAB.PMD250	Second cut	25 x 6	250	12	316
RAB.PMD300	Second cut	30 x 7	300	6	503



Precision files

AIG Round shank needle files

▷ NFE 75-001, NFE 75-002
- 3 styles.
- Available with T2 cut for precision work.
- Choice of 3 lengths : 140, 160, 180 mm.
- In boxes of 12.



	File type	Length mm	g
AIG.RD160T2	Round	160	90
AIG.RD180T2	Round	180	135
AIG.PAM140T2	Square	140	90
AIG.PAM160T2	Square	160	110
AIG.PAM180T2	Square	180	147
AIG.TRI180T2	Three-square	180	147

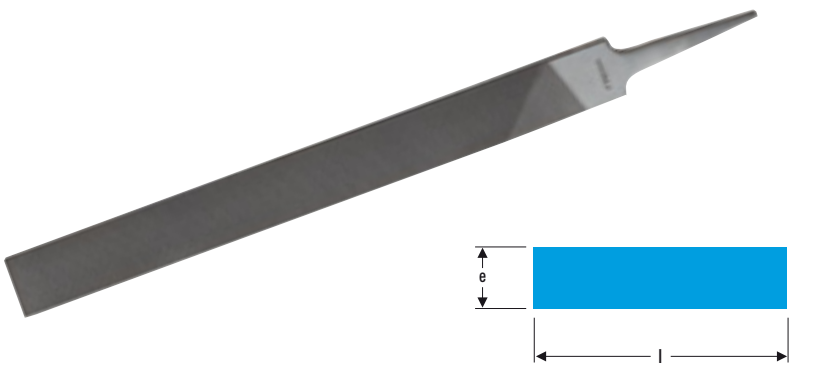
Selections of needle files

▷ NFE 75-001, NFE 75-002
- AS.6L : 6 needle files (RD.DRD.DPE.CAR.TRI.PAM).
- AS.12L : 12 needle files (RD, DED, PDE, FS, CT, CAR, TRI, PAM, BAR, PAMBR, CRO, OV).
- T0 for rough filing, T2 for precision filing, T4 for finishing.
- Packaging : BC : cardboard box; BP : plastic box; TP : plastic wallet.

	File type	Packaging	Length mm	g
AS.12LBC100T0	T0	BC	100	41
AS.12LBC100T2	T2	BC	100	42
AS.12LBP140T0	T0	BP	140	114
AS.12LBP140T2	T2	BP	140	108
AS.12LBP140T4	T4	BP	140	109
AS.6L140T0	T0	TP	140	86
AS.6L140T2	T2	TP	140	85
AS.12LBP160T0	T0	BP	160	136
AS.12LBP160T2	T2	BP	160	135
AS.12LBP160T4	T4	BP	160	134
AS.6L160T0	T0	TP	160	99
AS.6L160T2	T2	TP	160	98
AS.12LTP180T0	T0	TP	180	236
AS.12LTP180T2	T2	TP	180	233
AS.12LTP180T4	T4	TP	180	232
AS.6L180T2	T2	TP	180	115

ALP and ALDRD Second-cut files for aluminium

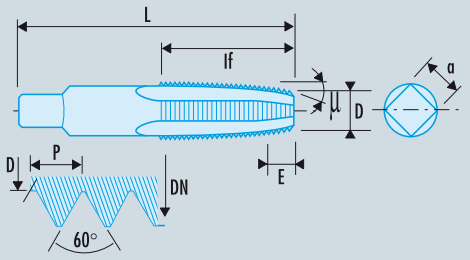
▷ NFE 75-001, NFE 75-002
- 2 double-cut faces :
- 1 double-cut edge.
- 1 safe edge.



	l x e mm	Length mm		g
ALP.300	30 x 7	300	6	437
ALDRD.300	30 x 8,5	300	6	475

Taps

Tap selection guide



- Ground-thread backed-off taps.
- ISO metric RH thread.
- 6H machining.
- Set of 2 (ref. T2) for soft metals : 1 taper tap, 1 bottoming tap.
- Set of 3 (ref. T3) for hard metals : 1 taper tap, 1 second tap, 1 bottoming tap.

Max. hardness : 70 daN/mm² :
- for taps 227 and 80 daN/mm²
- for taps 227.S.

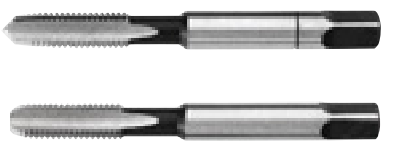
Types	*D*	*E*
Second	= 6 P	6°
Bottoming DN - 1.2p.	= 3.5 P	9°
Bottoming 18°	= 2 P	18°

227 Standard taps

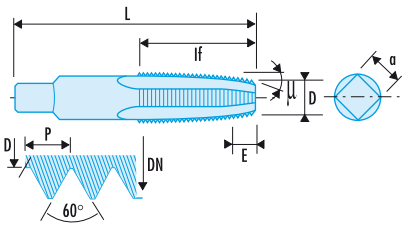
▷ ISO 2857, ISO 529; NF ISO 529, NF EN 22857.
227.T3 Set of 3 taps : taper, second and bottoming.
227.T2 Set of 2 taps : taper and bottoming.
- HSS steel.

	Taps	DN mm	a mm	P mm	L mm	⚖ g
227.3X50T3	x3	3	2,50	0,50	48	17
227.4X70T3	x 3	4	3,15	0,70	53	23
227.5X80T3	x 3	5	4	0,80	58	37
227.6X100T3	x 3	6	5	1	66	50
227.7X100T3	x 3	7	5,6	1	66	61
227.8X125T3	x 3	8	6,3	1,25	72	83
227.9X125T3	x 3	9	7,1	1,25	72	98
227.10X150T3	x 3	10	8	1,50	80	137
227.12X175T3	x 3	12	7,1	1,75	89	147
227.14X200T3	x 3	14	9	2	95	242
227.16X200T3	x 3	16	10	2	102	306
227.3X50T2	x 2	3	2,5	0,50	48	5
227.4X70T2	x 2	4	3,15	0,70	53	8
227.5X80T2	x 2	5	4	0,80	58	15
227.6X100T2	x 2	6	5	1	66	23
227.8X125T2	x 2	8	6,3	1,25	72	42
227.10X150T2	x 2	10	8	1,50	80	72
227.12X175T2	x 2	12	7,1	1,75	89	79

227.T3



227.T2

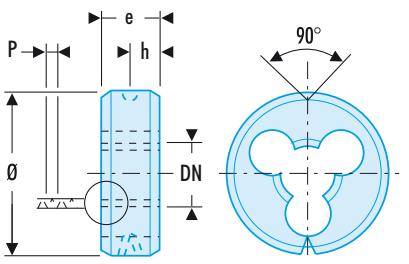


Dies

221 Split dies

▷ ISO 261, DIN ISO 261, NF ISO 261.
- ISO metric RH thread.
- Chrome-vanadium HSS hardened to 62/64 HRc (234 daN/mm²).
- Tapered adjusting screw

	DN mm	e mm	P mm	Ø mm	h mm	⚖ g
221.4X70	4	8	0,70	25,4	3,5	27
221.5X80	5	8	0,80	25,4	3,5	29
221.6X100	6	9	1	25,4	3,5	29
221.8X125	8	9	1,25	25,4	3,5	30
221.9X125	9	9	1,25	25,4	3,5	30
221.10X150	10	13	1,50	38,1	6	79
221.12X175	12	13	1,75	38,1	6	89
221.14X200	14	13	2	38,1	6	79
221.16X200	16	13	2	38,1	6	74
221.18X250	18	15	2,50	38,1	8	75



Threading and tapping tool sets

Tap and die sets

- For threads Ø 3 - 12 and Ø 3 to 18 mm.
- Sets 221.227SJ1 and 221.227SJ2 include cobalt steel taps 227.S.

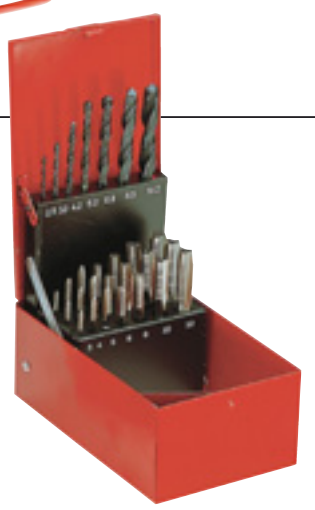
	mm	x				Ø mm	kg
221.227J1	470 x 195 x 53	9 x 2	9	2	2	M3-M12	3,1
221.227SJ1	470 x 195 x 53	9 x 2	9	2	2	M3-M12	3,1
221.227J2	540 x 284 x 58	12 x 2	12	2	3	M3-M18	5,7
221.227SJ2	540 x 284 x 58	12 x 2	12	2	3	M3-M18	5,7

221.227J1

Tap and drill-bit sets

- Each set includes 3 taps (taper, second, bottoming) and equivalent drill bit 222A.T.
- Set 227.SJ2A includes cobalt-steel taps 227.S.

	x	Ø	Ø mm	mm	kg
227.J2A	3 x 7	M3→M12	2,5-3,3-4,2-5-6,8-8,5-10,2	172 x 105 x 57	1,1
227.SJ2A	3 x 7	M3→M12	2,5-3,3-4,2-5-6,8-8,5-10,2	172 x 105 x 57	1,1



Tap set

- Each set includes 3 taps (taper, second, bottoming).
- Set 227.SJ1 includes cobalt-steel taps 227.S.

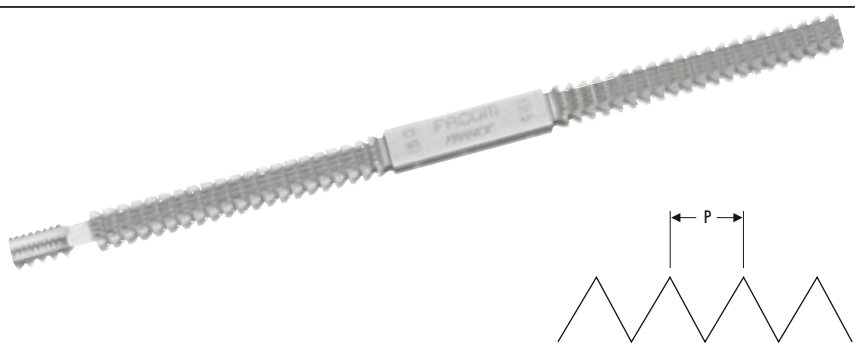
	x	mm	Ø mm	g
227.J1	3 x 7	118 x 118 x 31	M3→M12	720
227.SJ1	3 x 7	118 x 118 x 31	M3→M12	720

Thread restoring tools

237 Thread restoring tools

- For female and male threads.

	P	Length mm	Thread pattern	g
237.A	75-100-125-150-175-200-250-300	230	SI	119
237.B	80-100-125-150-175-200-250-300	230	ISO	123
237.C	10F-11F-12F-14F-16F-18F-20F-24F	230	WHITWORTH	125



Tools for taps and dies

830A.L Long ratcheting tap wrenches

- Ideal for cutting threads in tight recesses.
- Two-way ratchet.
- Ratchet lock.
- Polished chrome finish.

	max mm		Length mm	g
830A.5L	5	M6	250	230
830A.10L	8	M12	300	413

830A Short ratcheting tap wrenches

- Two-way ratchet.
- Ratchet lock.
- Polished chrome finish.

	⇿ max mm		Length mm	⚖ g
830A.5	5	M6	85	164
830A.10	8	M12	105	316

830A.RN Repair kits

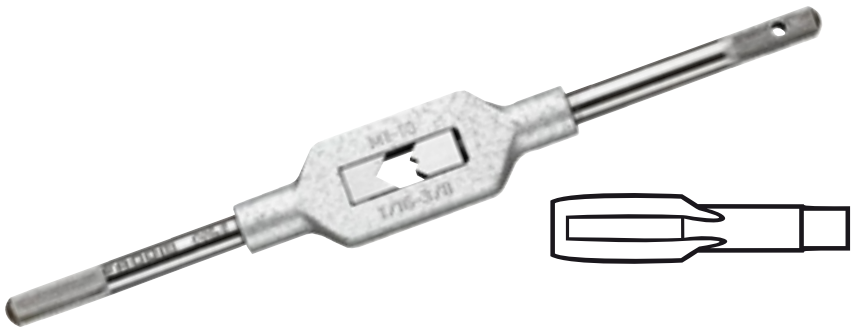
- Comprising chuck and spring.

	For	⚖ g
830A.5RN	830A.5/830A.5L	13
830A.10RN	830A.10/830A.10L	13

831 Adjustable tap wrenches

- Pressure-cast Zamak body. Machined and hardened clamp.
- Grey hammered finish.

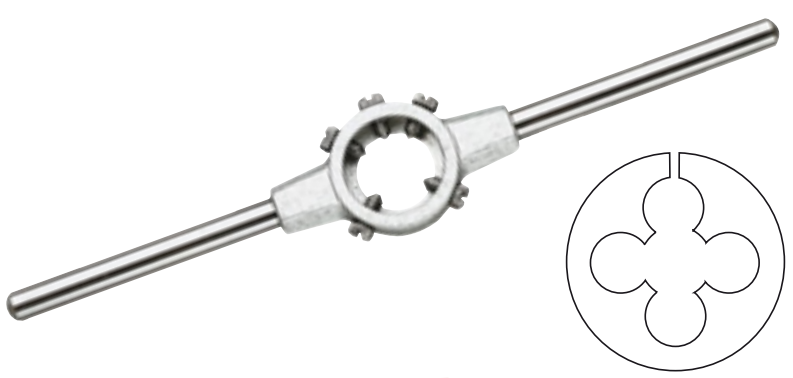
	⇿ min - max		Length mm	⚖ g
831.1	2 - 8	M3→M7	180	96
831.2	4 - 11	M5→M12	300	296
831.3	5 - 16	M6→M20	385	703



832 Die stocks

- Pressure-cast Zamak body for accurate centring of the die.
- Grey hammered finish.

	For ✪	Length mm	Ø mm	Ø "	⚖ g
832.1'	3x50→9x125	220	25,4	1	116
832.1'1/2	10x150→18x250	325	38,1	1-1/2	408



Workshop drill bits

222A.TJ Sets of ground twist drills

▷ ISO 235, DIN 338, NF ISO 235.

- For steel up to 700 MPa, stainless steel, grey cast-iron and aluminium alloy.

	x ⇿	Ø min - max mm	x mm	mm	⚖ kg
222A.TJ19	19	1 - 10	0,5	165 x 110 x 35	0,73
222A.TJ25	25	1 - 13	0,5	190 x 110 x 54	1,39
222A.TJ50	50	1 - 5,9	0,1	135 x 120 x 35	0,76
222A.TJ81	81	2 - 10	0,1	235 x 210 x 145	3,7

Set of ground twist drills

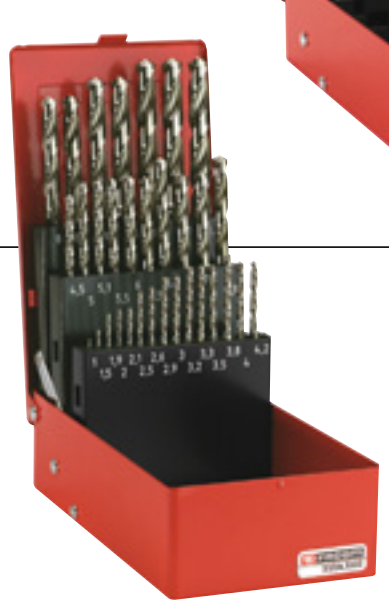
222A.TJ32

- For steel up to 700 MPa, stainless steel, grey cast-iron and aluminium alloy.
- 20 drill bits 222A.T Ø 1 to 10.5 mm in 1/2 mm increments.
- 12 drill bits, tapping and riveting dimensions :

- Ø d1.9-2.1-2.6-2.9-3.2-3.3-3.8-4.2-5.1-6.8-7.9- 10.2 mm.

- Dimensions : 170 x 110 x 50 mm.

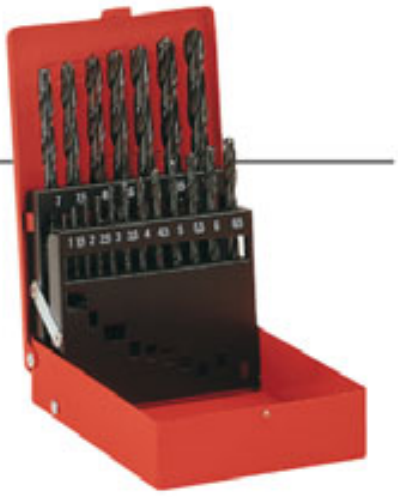
⚖ : 1.17 kg.



Ground twist drills

• For steel up to 700 MPa, stainless steel, grey cast-iron and aluminium alloy.
• Available in the following sizes :
- Ø 1 to Ø13 mm : in 1/2 mm increments
Ordering information : For a 6.5 mm drill bit quote reference 222A.T6.5.

222.J Drill bit sets



• Hot-rolled high-speed steel drills for steels up to 400 MPa hardness.

	x	Ø min - max mm	x mm	mm	kg
222.J19	19	1 - 10	0,5	165 x 110 x 68	0,73
222.J25	25	1 - 13	0,5	190 x 110 x 54	1,36

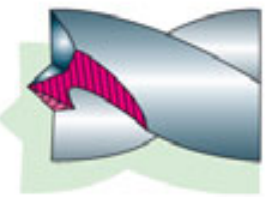
Drill bits

222

• For steel up to 400 MPa.
• Available in the following sizes :
- Ø 1 to Ø 13 mm : in 1/2 mm increments
⚠ Ordering information : For a drill bit. Ø 6.5 mm : quote reference 222.6,5.

Set of drill bits for sheet metal

222.TLJ10



• Comprising :
- 10 drill bits Ø 3-3.5-4-4.2-4.5-5-5.5-6-8-10.
• Ground in high-speed steel.
• For thin gauges
• Service case 155 x 110 x 35 mm.
⚖ : 150 g.

Set of 3 reaming bits

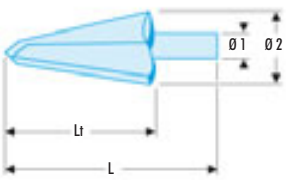
229A.J3

• Capacity : Ø 3 to 30.5 mm.
• In a steel case : 120 x 100 x 38 mm.
• Supplied with lubricant.
⚖ : 555 g.

229A Reaming bits

• HSS for drilling, deburring and reaming thin sheet steel and non-ferrous metals.
• Max. recommended thickness 4 mm.

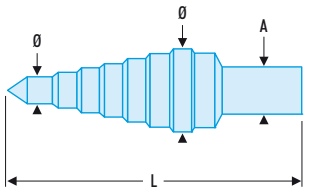
	Ø 2 min - max mm	Ø1 mm	Lt mm	L mm	g
229A.1	3 - 14	6	37	59	21
229A.2	5 - 20	8	41	71	45
229A.3	16 - 30,5	9	48	76	131



229A.ST Stepped bits

- Complies with the standards.
- For precision-drilling straight bores in all materials.
- Split point : no pilot hole required.
- More aggressive cut for easier drilling and no burrs.
- Better shaving removal.
- Less vibration, quieter operation.
- Parallel shank with 3 flats for positive rotation.
- Laser-engraved diameter markings in a groove.
- 678006 : Special ISO gland.
- 678014 : PG size step drill.
- Shank diameter 10 mm.

	Ø min - max mm	A mm	L mm	ΔΔ g
229A.ST0	4-5-6-7-8-9-10-11-12	6	65	25
229A.ST1	4-6-8-10-12-14-16-18-20	8	75	65
229A.ST2	4-6-9-12-15-18-21-24-27-30-33-36-39	10	107	315
229A.ST3	6-9-13-16-19-21-23-26-29-32-35-38	10	100	320
678006	6,5-8,5-10,5-12,5-16,5-20,5-25,5-29-32,5-36,5-40,5	10	96	310
678014	6-9-12,5-15,2-18,6-20,4-22,5-26-28,3-30,5-34-37	10	100	300



Masonry drill bits

Bits for impact machinery

Set of 7 push-fit drill bits

223.MHJ7

- SDS plus shank profile.
- Tungsten carbide tip insert.
- Comprising :
  - 3 drills : 110 mm long, Ø 5 - 6 - 8 mm.
- 4 drills : 160 mm long, Ø 6 - 8 - 10 - 12 mm
- In a steel case : 185 x 100 x 25 mm.

ΔΔ : 507 g.

Set of 6 drill bits for straight chucks

223.MJ6

- For carbide-chuck machinery Ø 13 mm.
- Machined bit with ground spiral and sharpened carbide insert
- Ø 4 - 5 - 6 - 7- 8 - 10 mm.
- In a plastic case : 140 x 70 x 20 mm.

ΔΔ : 175 g.

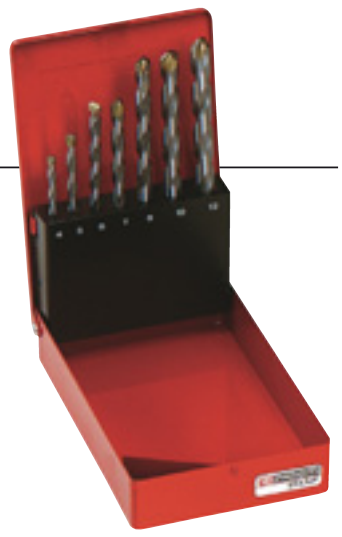
Bits for hammer drills

Set of 7 short drill bits for straight chucks

223.SJ7

- Sharpened carbide tip inserts.
- Ground from stock with L-groove.
- Ø 4 - 5 - 6 - 7 - 8 - 10 - 12 mm.
- In a steel case : 155 x 100 x 30 mm.

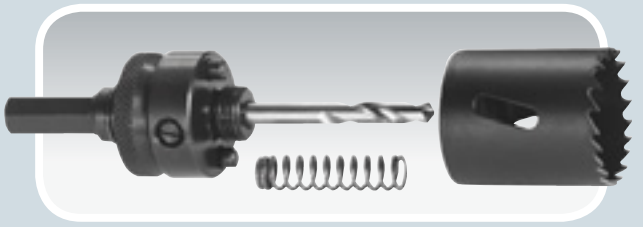
ΔΔ : 355 g.



Bimetal HSS holesaw

For cutting holes through standard materials and metals used in mechanical engineering, sheet-metalworking and plumbing.

- High-speed steel teeth, hardness > 63 HRc.
- Holesaw back in thick sheet steel to minimise vibration.
- Side slots and holes for chip removal.
- Spring helps eject cut-out pieces.



Quick assembly : chuck, pilot drill, spring, blade.

Variable pitch holesaw

609A Variable pitch holesaw

- Variable pitch 4 to 6 mm (4/6T).
- Softer cut and reduced vibration. Cutting depth 34 mm.

	Ø mm	L mm	⚖ g
609A.16	16	51	27
609A.19	19	51	31
609A.22	22	51	43
609A.24	24	51	52
609A.25	25	51	57
609A.27	27	51	66
609A.29	29	51	77
609A.32	32	51	92
609A.35	35	51	100
609A.38	38	51	74
609A.40	40	45	82
609A.44	44	45	102
609A.51	51	45	125
609A.54	54	45	140
609A.57	57	45	152
609A.60	60	45	167
609A.64	64	45	185
609A.65	65	45	192
609A.67	67	45	195
609A.68	68	45	205

	Ø mm	L mm	⚖ g
609A.70	70	45	217
609A.76	76	45	250
609A.79	79	45	267
609A.80	80	45	270
609A.83	83	45	291
609A.86	86	45	300
609A.102	102	45	419

	Description
609A.M1	Chuck and drill for holesaws → 22 to 29 mm
609A.M2	Chuck and drill for holesaws → > 29 mm

Holesaw sets

609A Set of variable-pitch holesaws with chucks

	mm	Ø mm	⚖ kg
609A.J1	322 x 136 x 53	22 - 29 - 35 - 44 - 51 - 64	1,8
609A.J3	322 x 136 x 53	19 - 22 - 29 - 35 - 38 - 44 - 51 - 57 - 64	2,1

Case set of 5 holesaws

693898

- Comprising :

- Holesaws Ø 38, 40, 65, 67 and 68 mm.
- 1 chuck fitted with a pilot drill.
- 1 spring.

- Supplied in a shockproof polypropylene case BP.115 and tray PL.643.
- Case dimensions : 325 x 135 x 55 mm.
- Special electricians set (Recess boxes, etc.).

VFA Cutters

- Tungsten carbide.
- Right-hand spiral.

⇉	no.	Ø x H mm	max rpm	⚖ g
VFA.600	1	6 x 18	50000	24
VFA.602	2	6 x 18	50000	24
VFA.604	3	6 x 18	50000	24
VFA.606	4	6 x 18	50000	22
VFA.608	5	6 x 18	50000	20
VFA.610	6	6 x 15	50000	20
VFA.1200	1	12 x 25	20000	52
VFA.1202	2	12 x 25	20000	52
VFA.1204	3	12 x 25	20000	50
VFA.1206	4	12 x 25	20000	30
VFA.1208	5	12 x 25	20000	35
VFA.1210	6	12 x 20	20000	38

Set of 90° cone bits

229.TTJ4

- Comprising :

- 4 bits 229.TT2 to 229.TT5 and lubricant.

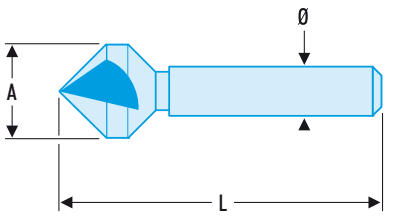
- In a steel case 120 x 100 x 38 mm.

⚖ : 450 g.

229.TT 90° cone bits

- 3 HSS cutting edges for countersunk screw holes.

⇉	A mm	Ø mm	L mm	⚖ g
229.TT2	10,4	6	50	11
229.TT3	16,5	10	60	30
229.TT4	20,5	10	63	48
229.TT5	25,0	10	67	66

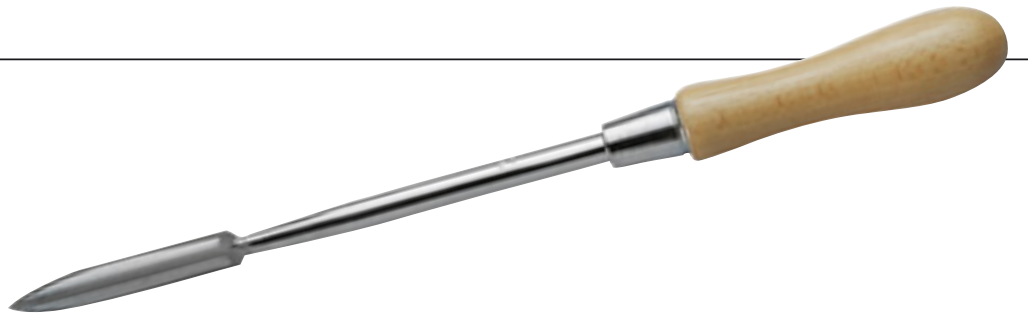


Three-square scraper

231

- High quality steel blade, polished chrome finish.
- Varnished wood handle.
- Shank length : 200 mm.

⚖ : 180 g.



Half-round curved scraper

232

- Polished chrome blade.
- Varnished wood handle.
- Blade length 200 mm.

⚖ : 180 g.

Flat scraper

329

- Polished chrome blade.
- Varnished wood handle.
- Blade length 200 mm.

⚖ : 185 g.

Set of 3 stainless steel scrapers

235.J1

- Dimensions :

Length : 215mm.
Width : 32mm straight, 32mm angled and 50mm straight.
Weight of set 427 g.

Set of 3 flexible spatulas

237.J1

- Dimensions :

Length : 215mm.
Width : 32mm, 50mm and 75mm.
Weight of set 273 g.

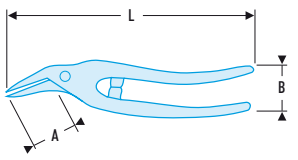
Metal shears

883 Scroll shears

- Specially-shaped nose for accurately following detailed patterns.
- Steel end stops.

883B.G Left-cut scroll shears.
883B Right-cut scroll shears.
883.32 Right cut large-capacity scroll shears.

- Epoxy paint finish.

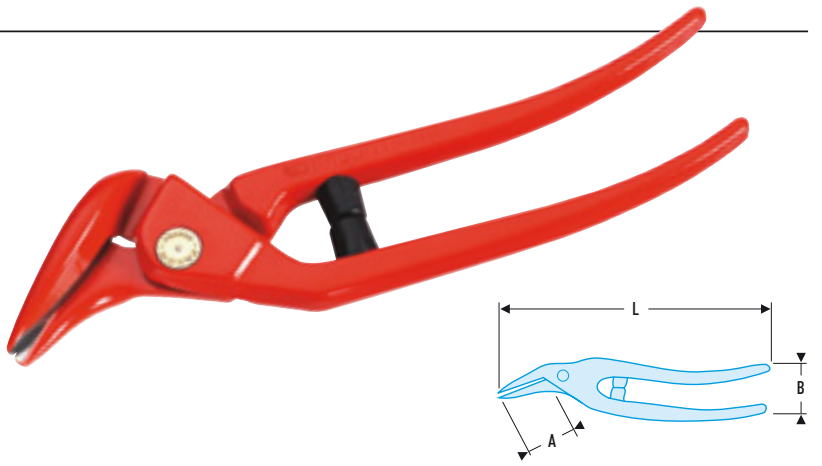


	Capacity in mm Stainless 80 kg/mm²	Capacity in mm	L mm	A mm	B min - max mm	⚖ g
883B.G	0,8	1	260	46	43 - 170	535
883B	0,8	1	260	50	43 - 170	527
883.32	0,9	1,2	320	73	47 - 170	763

884 Panel shears

• The bottom-blade clearance makes these shears ideal for continuous straight cuts in large panels, leaving clean edges.
• End stop.
• Epoxy paint finish.

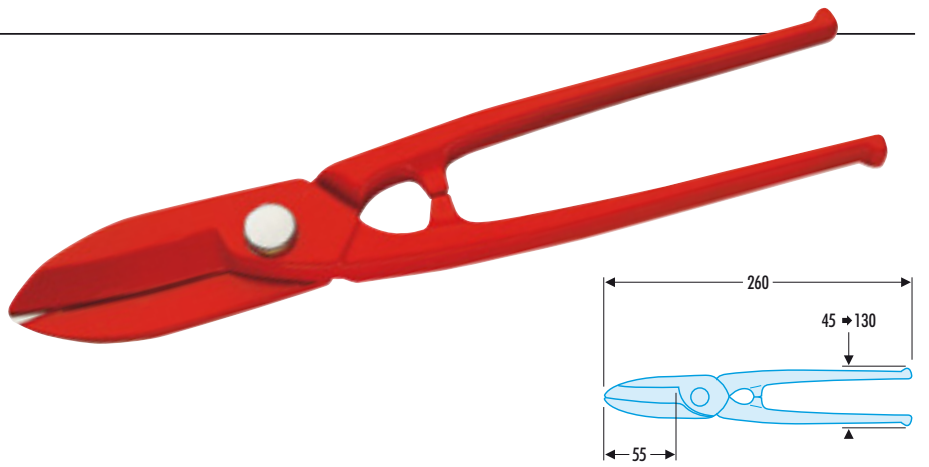
	Capacity in mm Stainless 80 kg/mm²	Capacity in mm	L mm	A mm	B min - max mm	⚖ g
884B	0,8	1	260	40	43 - 130	670
884.30	0,9	1,2	300	52	45 - 150	840



General-purpose shears

880

• 2 wide blades.
• Capacity :
- Stainless 80 kg/mm² : 0.5 mm.
- Semi-hard steel : 0.8 mm.
• Forged steel end stop.
• Epoxy paint finish.
⚖ : 520 g.

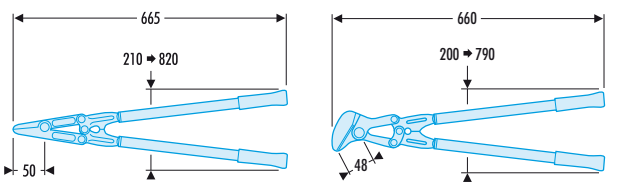


882A-884A Two-hand shears

• Very high demultiplication.
• Forged steel end stop.
• Cutting capacity for blued sheet 120 kg/mm² : 2.0 mm (882A.65) and 2.5 mm (884A.65).
• Zinc-coated blades, tubular handles with neoprene grips.

	⚖ kg
882A.65	2,134
884A.65	2,406

	Description	⚖ kg
882A.L65	Spare blades	0,767
884A.L65	Spare blades	1,06

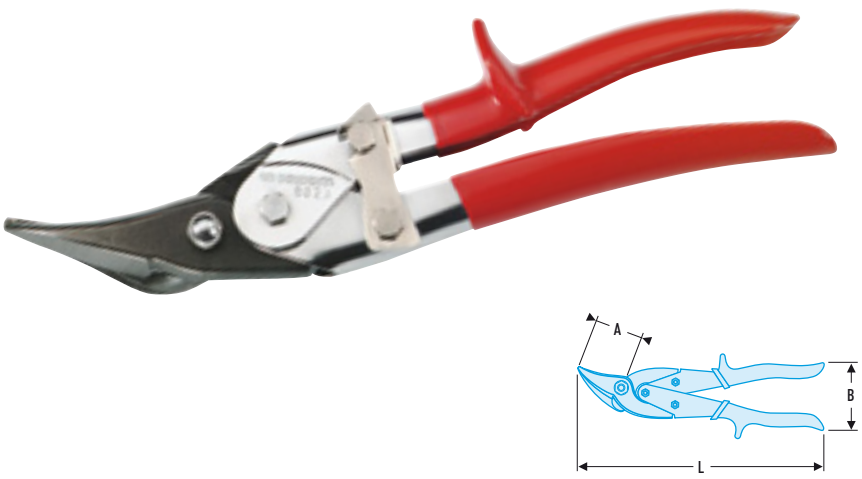


Right-cut universal scroll shears

882A

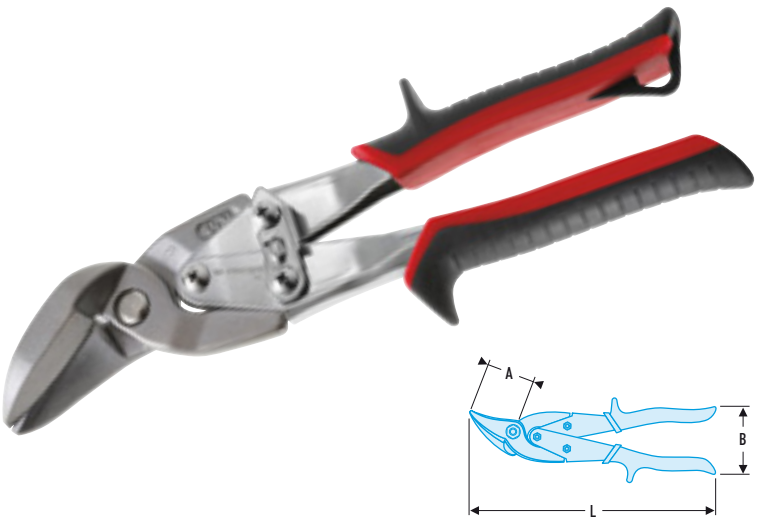
• Compound joint for easy action.
• Forged, hardened and burnished blades.
• Red sheathed grips with guard.
• Inset opening spring.
• Lock-closed catch.
• Cutting capacity
- Stainless 80 kg/mm² : 0.8 mm.
- Semi-hard steel : 0.8 mm.

	L mm	A mm	B min - max mm	⚖ g
882A	250	32	45 - 130	474



982 Compound scroll shears

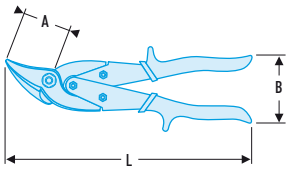
• Comply with ASME B 107.16M - 1998.
• Panel-type shears with slightly serrated cutting edges to prevent workpiece slip.
• Good demultiplication and inset opening spring.
• Forged chrome molybdenum blades.
• Ergonomic non-slip bi-material grips.
• Colour-coded according to direction of cut.
- Red = left cut.
- Green = Right cut.
• Jaw lock catch.
• Cutting capacity.
• Stainless 80 kg/mm² : 0.8 mm.
• Semi-hard steel : 1.2 mm.



	L mm	B min - max mm	A mm	ΔΔ g
982	245	65 - 190	45	378
982.G	245	65 - 190	45	382

985 "Aircraft" shears

• Forged chrome molybdenum blades.
• High demultiplication allows long runs without effort.
• Good demultiplication and inset opening spring.
• Slightly serrated cutting edges prevent workpiece slip.
• Ergonomic non-slip bi-material grips.
• Colour-coded according to direction of cut.
- Left cut = Red (985LE).
- Right cut = Green (985RI).
- Straight cut = Yellow (985ST).
• Jaw lock catch.
• Cutting capacity.
• Stainless 80 kg/mm² : 0.8 mm.
• Semi-hard steel : 1.2 mm.

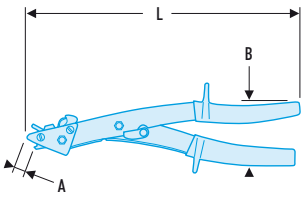


	L mm	B min - max mm	A mm	ΔΔ g
985.LE	255	60 - 150	55	399
985.RI	255	60 - 150	55	400
985.ST	255	65 - 165	55	390

Nibblers

887A

• Inset opening spring and high demultiplication allow effortless cutting along intricate patterns, removing a strip 2.8 mm wide.
• Die and blade system severs the strip at end of run.
• Top blades cut wire up to 2 mm in semi-hard steel and 2.5 mm in mild steel.
• Lock-closed catch.
• Cutting capacity
- Stainless 80 kg/mm² : 0.8 mm.
- Semi-hard steel : 1 mm.



	L mm	B min - maxi mm	A mm	ΔΔ g
887A	260	7	45 - 110	520

	Description	ΔΔ g
887A.L1	Spare blade	20

Bolt croppers and cable cutters

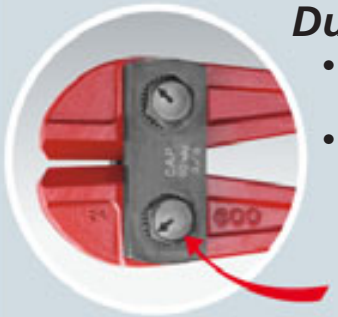
990.B Bolt croppers

Powerful

- *Increased steel-cutting capacity up to 160 kg/mm².*

Durable

- *Harder blades for a more durable cut.*
- *Body specially treated to reduce play to a minimum.*
- *High performance chrome blades.*
- *Eccentric screw adjustment of play between blades.*



Efficient

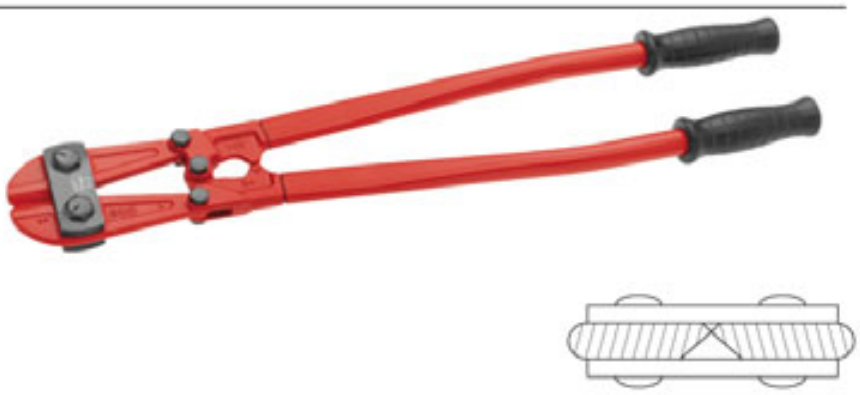
- *Minimum cutting effort.*
- *Handgrip with guard for greater comfort*

990.B Axial cut bolt croppers

	no.	Ø max mm 60 kg/mm²	Ø max mm 140 kg/mm²	Length mm	Length "	160 kg/mm² 160 kg/mm²	ΔΔ kg
990.B0	0	7	6	450	18	5,5	1,7
990.B1	1	10	8	600	24	7	2,8
990.B2	2	13	9	750	30	8	4,2
990.B3	3	16	10	900	35	9	6,4
990.B4	4	18	11	1050	41	10	8,6

990.RB Flush-cut bolt croppers

	no.	Ø max mm 60 kg/mm²	Ø max mm 140 kg/mm²	Length mm	Length "	160 kg/mm² 160 kg/mm²	ΔΔ kg
990.RB00	00	6	5	350	12	5	1
990.RB0	0	7	6	450	18	5,5	1,7



990.LB Replacement blades for series 990.B (with screws)

- Bolt-cropper blades are consumables and subject to normal wear. Facom guarantees their conformity to dimensional standards and suitability for recommended applications.
- Actual service life is dependent on conditions of use.

	For axial cut bolt croppers	For flush-cut bolt croppers	ΔΔ kg
990.LB0	990.B0		0,65
990.LB1	990.B1		1,05
990.LB2	990.B2		1,65
990.LB3	990.B3		2,4
990.LB4	990.B4		3,4
990.LRB00		990.RB00	0,45
990.LRB0		990.RB0	0,65

Mini croppers and wire cutters

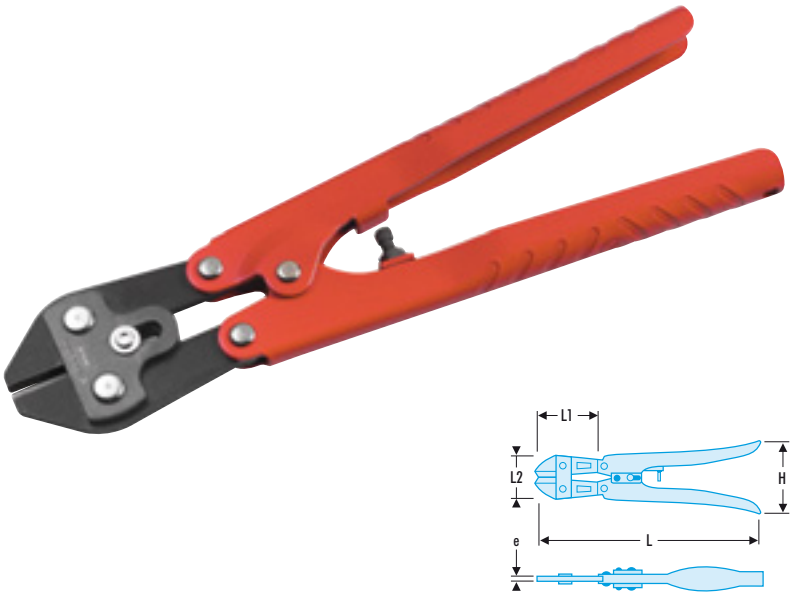
Small bolt cropper

997A.20

- Forged, hardened blades.
- Cutting capacity :

- Max.Piano wire Ø 2mm at 200kg/mm².
- Soft wire Ø 4mm at 60 kg/mm².

- Compact, lightweight tool with demultiplication system designed to cut hard and semi-hard wire, piano wire, bolts, rivets, pins and nails, etc.
- Ergonomic hardened pressed-steel handles with adjustable, shock-absorbing end stop.
- Spring-assisted opening.
- Blades lock in closed position.
- Bronzed blades, painted grips.



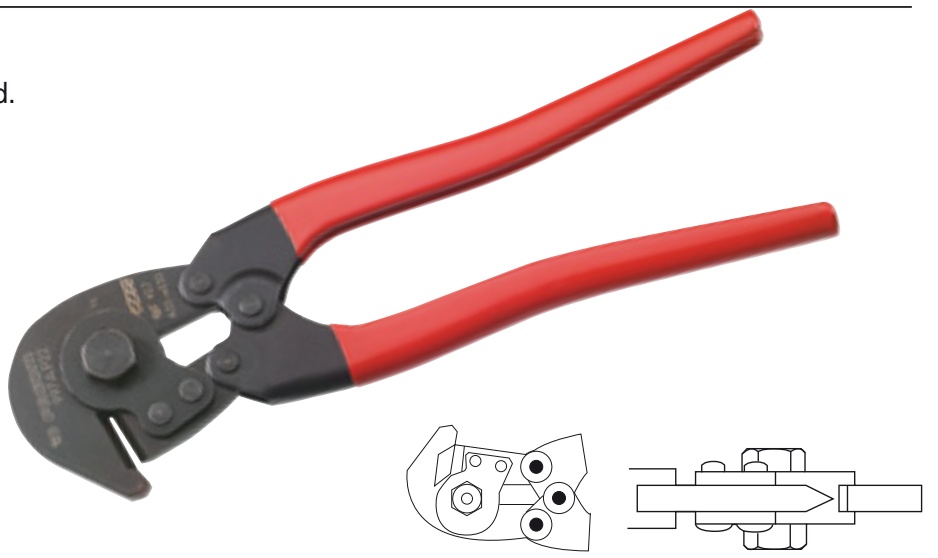
	E mm	H mm	L mm	L1 mm	L2 mm	⚖ g
997A.20	4,5	57	210	54,5	40	275

"Parrot nose" steel wire cutter

997A.P22

- For cutting hard wire up to 200 kg/mm² : Ø 2 mm using one hand.
- Maximum capacity : Ø 8 mm.
- Blades hardened to 240 kg/mm².
- 235 x 80 mm.

⚖ : 400 g.



Copper and aluminium cable cutters

412 Cable cutters

412B.10 "Compact" cable cutters, capacity 10 mm.

- Integral opening spring.
- Lock closed catch.
- Cross proof design.

412.16 "Compact" cable cutters, capacity 16 mm.

- Heavy-duty head, cross proof design.
- Safety stop.

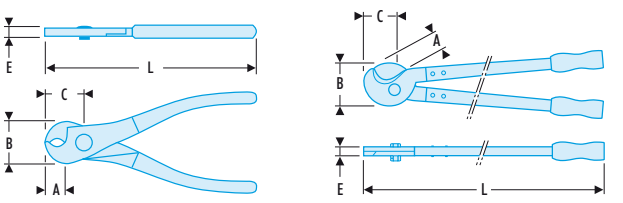
412.30-412.42 □Heavy-duty□ cable cutters.

- Powerful action, cuts without crushing electric cables.
- Safety stop.

412.30

412B.10

	D min - max mm	⋐ max ◎mm²	☢mm²	E mm	L mm	A mm	B mm	C mm	Ø mm	⚖ g
412B.10	53 - 190	45	50	10	170	21	28	40	10	225
412.16	80 - 370	75	85	14	290	28	54	45	16	670
412.30	155 - 1000	185	210	16	600	40	70	60	32	2458
412.42	200 - 1300	400	430	16	800	70	115	90	42	3695

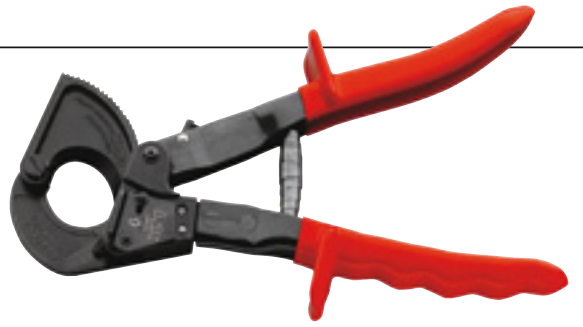


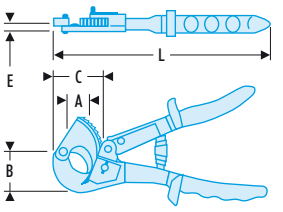
	Description
412.L30	Set of blades for 412.30
412.L42	Set of blades for 412.42

Cable cutters

413 Ratchet cable cutters

- Capacities 32 and 52 mm.
- Ratchet-blade system for easy cut through thick gauge cables.
- Particularly useful in confined spaces.
- Non-slip grips with guards.



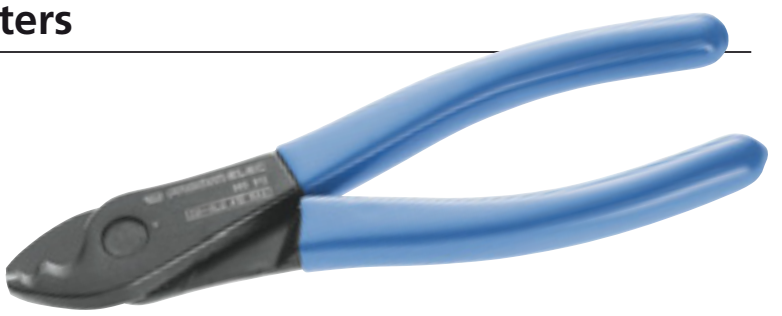


	max		E	A	B	C	Ø	L	
	mm²	mm²	mm	mm	mm	mm	mm	mm	g
413A.32	190	210	7,8	34	58	65	32	255	385
413.52	250	400	8,0	53	80	75	52	275	800

Manual 10 mm dia. copper/aluminium cable cutters

985912

- Notched end for stripping wires
- For single and multi-strand cables.

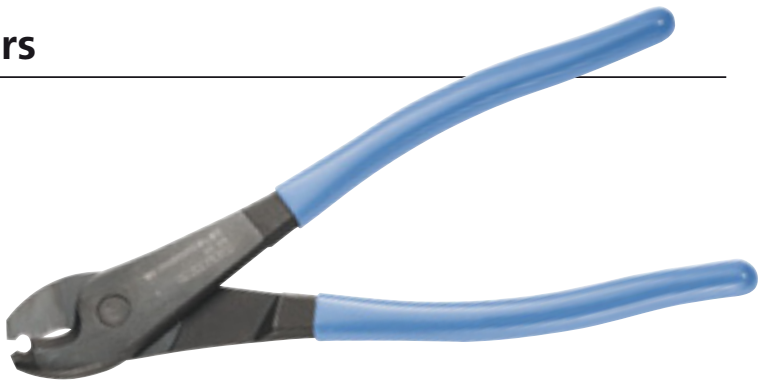


	Capacity Ø mm		Capacity Ø mm	L	
	Multi-strand cable	single strand	Almelec	mm	g
985912	10	8	6	165	225

Manual 18mm dia. copper/aluminium cable cutters

985925

- Notched end for stripping wires
- For single and multi-strand cables.



		Capacity Ø mm		L	
	Multi-strand cable	copper	Almelec	mm	g
985925	18	15	10	231	350

Steel cable cutters

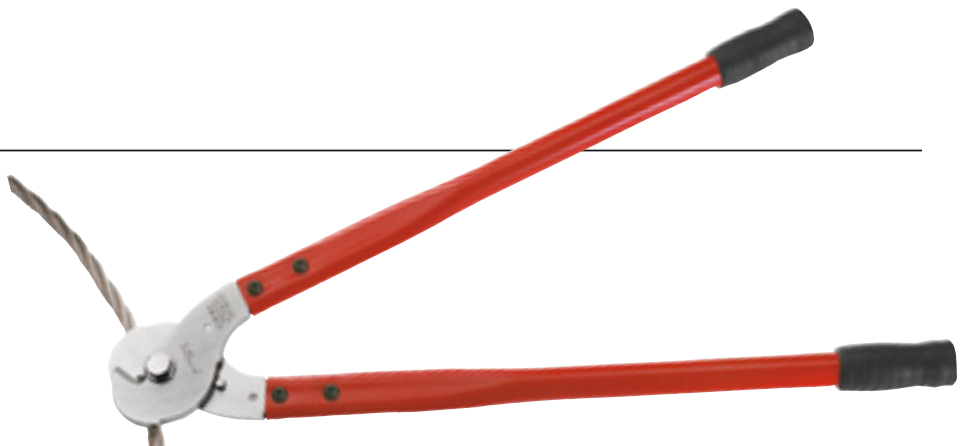
996 Cable cutters

996.5 "Compact" cable cutters, capacity 5 mm.
- Lightweight tool with blades and cutting angle designed for cutting solid materials and multi-strand cables.
- Push catch to lock closed, simply squeeze handles to release.
- Blades hardened to 60-62 HRc.

996.8 "Standard" cable cutters , capacity 8 mm.
- Blade inserts in high-performance steel.
- Compact and powerful with ergonomic grips.

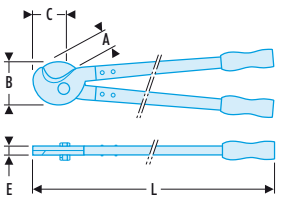
996A.12 : Capacity 12 mm.

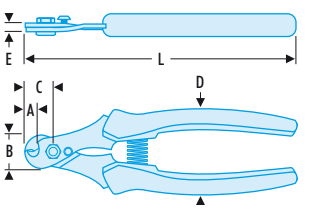
996.16 : Capacity 16 mm.
- Forged blades in high-performance steel.
- Cross proof design.

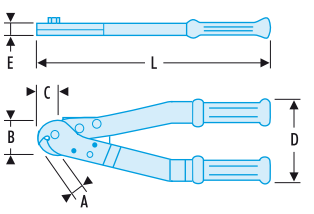


	D min - max	Ø mm										
	mm	Mild steel 60-100 kg/mm²	Hard steel 120-150 kg/mm²	Hard steel 130-160 kg/mm²	Rod 60 kg/mm²	Rod 60-80 kg/mm²	E mm	A mm	B mm	C mm	L mm	kg
996.5	50 - 125	5	-	4	3	-	8	7	21	12	165	0,165
996.8	115 - 470	8	-	7	6	-	16	12	42	21	340	0,89
996A.12	-	12	10	-	-	8	16	20	73	50	600	2,73
996.16	-	16	13	-	-	10	16	28	115	55	800	4,95

	Description
996.L8	Spare blades for 996.8
996A.L12	Spare blades for 996A.12
996.L16	Spare blades for 996.16





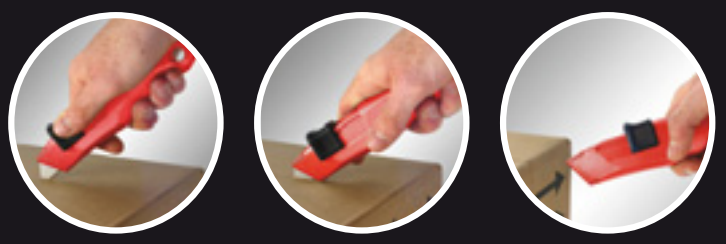


844 The new utility knife range

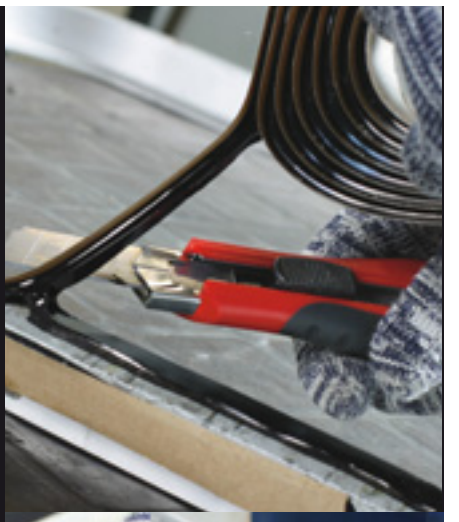
A NEW RANGE OF CUTTING TOOLS, DESIGNED FOR PROFESSIONALS

Uncompromising safety for Professional applications.

- *Recommended by the Health and Safety Committees (CHSCT)..*
- *Avoids the risk of cuts as a result of handling the blade, or blade slippage.*
- *Automatic reload model.*
- *Blade lock feature*



844.S18



Productivity and efficiency.

- *In-handle blade storage allows easy blade changes.*
- *Time-saving and safe.*

Especially designed for intensive and daily use.

- *Stainless steel blade guide providing perfect torsion resistance.*
- *Ergonomic handle for a more comfortable grip.*
- *Soft finish to avoid slippage.*

Rigorous quality.

- *Dynamic endurance tested for mechanism lifetime*
- *Load tested for blade-locking.*
- *Torsion tested to ensure blade retention.*
- *Tested for resistance to workshop chemicals.*

844.D

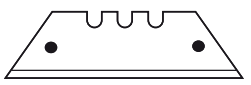
New

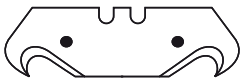
Safety knife with retractable blade

844.D

- Safety knife.
- Blade automatically retracts after use.
- Zamak body.
- ABS cursor, front or side thumb control.
- Supplied with 3 blades (1 factory-mounted and 2 in the body).

⚖ : 185 g.





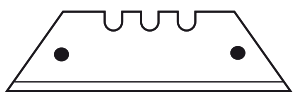
	H min - max mm	L mm	E mini maxi mm
844.D	176	40,5 - 44	21,5 - 27

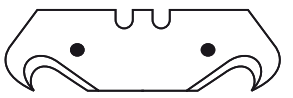
Retractable utility knife with interchangeable blades

844.R

- Choice of 3 blade settings.
- Moulded handle housing 5 blades :
- Zamak body.
- Zinc alloy slide-button.

⚖ : 190 g.



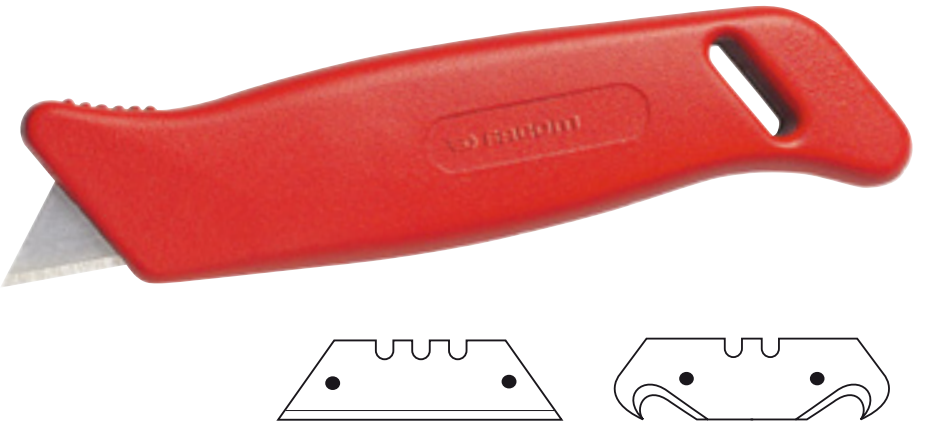


Utility knife with interchangeable blades

844C

- Moulded handle housing 5 blades.
- Supplied in plastic case.
- Zamak body.

⚖ : 145 g.



New

18 mm automatically reloading utility knife

844.S18

Productivity, accessibility, safety

- Automatically reloading snap-off blades.
- Ergonomic soft ABS handle.
- Stainless steel blade guide.
- Blade lock knob.
- 6-blade cartridge.

⚖ : 85 g.

	L mm	Hauteur mm	Epaisseur mm
844.SE18	176	47	23

Cutter with 18 mm snap-off blades

844.SE18

- Snap-off blades
- Ergonomic soft ABS handle.
- Stainless steel blade guide.
- Automatic blade lock.
- 2 spare blades.
- Integral blade snapper.

	L mm	Hauteur mm	Epaisseur mm	⚖ g
844.SE18	47	47	172	98

Cutter with 9 mm snap-off blades

844.S9

- Snap-off blades
- Ergonomic soft ABS handle.
- Stainless steel blade guide.
- Automatic blade lock.
- 2 spare blades.
- Integral blade snapper.

⚖ : 19 g.

	L mm	Height mm	Epaisseur mm	⚖ g
844.SE18	149	47	17	47

844 Blade selection guide

OUR CUTTING TOOL EXPERIENCE AT THE SERVICE OF PROFESSIONALS

A perfectly cutting blade guarantees your safety.

- *A neat, clean cut*
- *Does not damage the material to be cut.*
- *Effortless cutting without the risk of blade slippage or pull-out.*
- *Saves time.*

Choosing the right blade.

- *What material is being cut ? Material, thickness.*
- *On what backing surface will cutting be performed? (Does it need protecting?)*
- *Is there a risk of slipping? (uneven surface)*
- *What is the working material?*
- *What is the frequency of use?*
- *What is the desired durability?*

A blade is a compromise between :

- ***Hardness :*** *For a strong cutting section and good stress resistance.*
- ***Flexibility :*** *For stress resistance as well as allowing the blade to twist without deforming for a neat cut.*
- ***Cutting angle :*** *to guarantee an optimum cut according to the material.*

A choice of packaging

- *10 blade dispenser for roller cabinets.*
- *100 blade dispenser for wall mounting.*

New

High strength perforated trapezoidal blade

- High strength blade.
- Designed to produce a perfect cut in intensive applications.
- Ideal for cutting :

- Thick cardboard. - Hoses. - Plastic. - Resilient foam. - Heat-shrinkable tubing.
- Nylon strip. - Plastic tubes. - Seals.

- Supplied in a 10 or 100 blade dispenser.

	Length mm	Height mm	Thickness mm	kg
844.TTL10	60	19	0,65	0,05
844.TTL100	60	19	0,65	0,35

10 blades

100 blades

Standard trapezoidal blade

- Trapezoidal blade for everyday tasks.
- Designed to produce a perfect cut in normal applications.
- Ideal for cutting :

- Thin cardboard. - Plastic film. - Heat-shrinkable tubing. - Wrapping paper.

- Supplied in a 10 or 100 blade dispenser.

	Length mm	Height mm	Thickness mm	kg
844.TSL10	50	19	0,45	0,05
844.TSL100	50	19	0,45	0,35

10 blades

100 blades

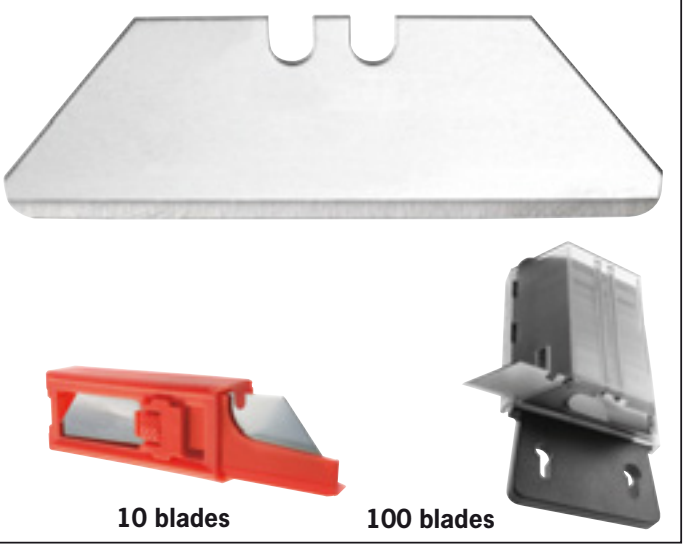
New

High performance safety trapezoidal blade

- High performance trapezoidal blade.
- Rounded corner to avoid risk of accidental cutting.
- Designed to produce a perfect cut in intensive applications.
- Ideal for cutting :

- Thick cardboard.
- Hoses.
- Plastic.
- Resilient foam.
- Heat-shrinkable tubing.
- Nylon strip.
- Plastic tubes.

	Length mm	Height mm	Thickness mm	kg
844.TRL10	60	19	0,65	0,05
844.TRL100	60	19	0,65	0,35



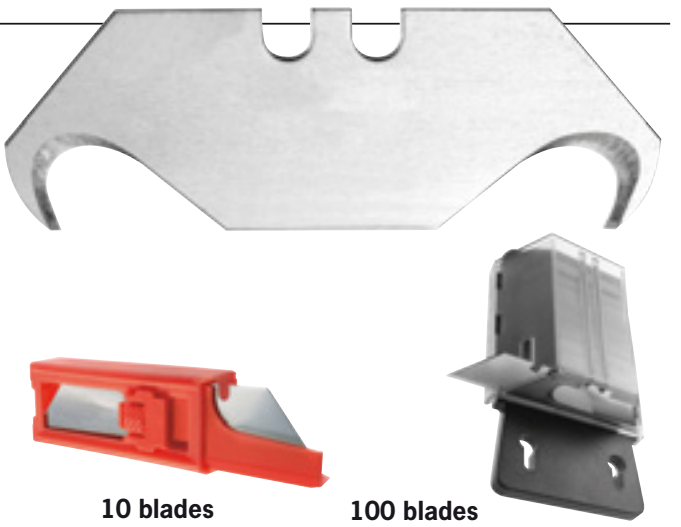
High strength hook blade

- High strength hook blade.
- Specially designed to protect the backing during cutting.
- Ideal for cutting :

- Floor finishes, e.g. carpet, lino, PVC or other laid material.
- Straps and thick fabric.

- Supplied in a 10 or 100 blade dispenser.

	Length mm	Height mm	Thickness mm	kg
844.TCL10	50	19	0,65	0,05
844.TCL100	50	19	0,65	0,35



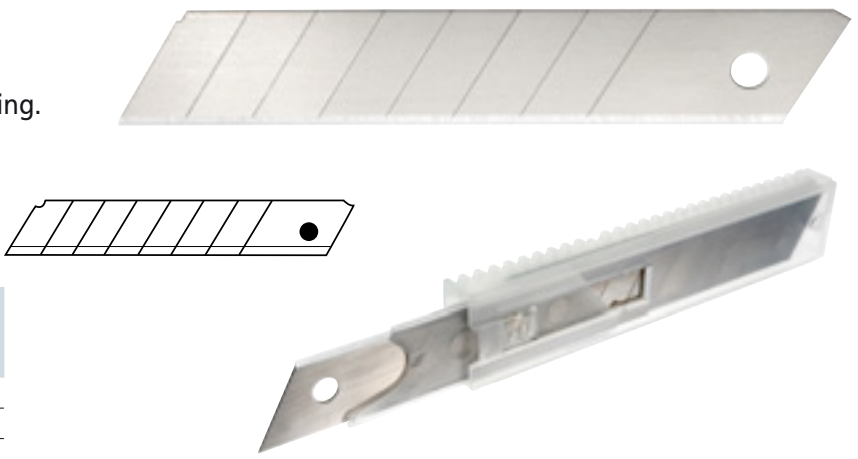
844.S18L 18 mm snap-off blades

- Snap-off blade.
- Ideal for all everyday cutting applications.
- For cutting :

- Thick cardboard - Hoses - Plastic - Resilient foam - Heat-shrinkable tubing.
- Nylon strip - Plastic tubes - Seals.

- Warning, snap-off blades are not designed to withstand excessive torsion forces.
- Supplied in a 10 or 50 blade dispenser.

	Length mm	Height mm	Thickness mm	Number of blades	Number of segments on the blade	kg
844.S18L10	110	18	0,53	10	7	0,089
844.S18L50	110	18	0,53	50	7	0,365

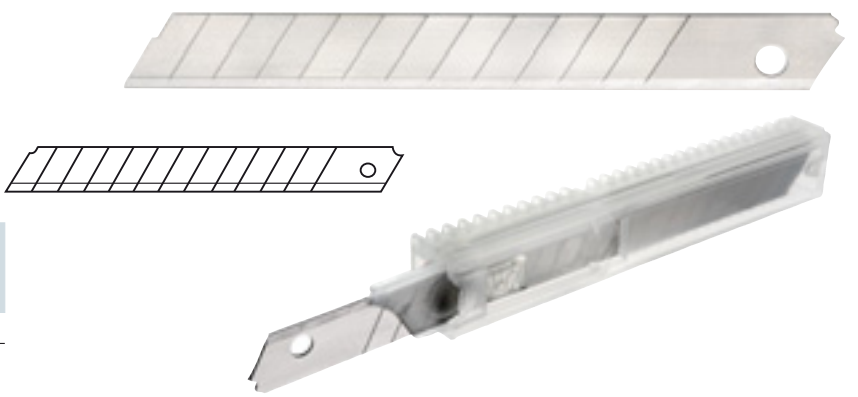


Pack of ten 9 mm snap-off blades

844.S9L10

- 9 mm snap-off blade

	Length mm	Height mm	Thickness mm	Number of blades	Number of segments on the blade	kg
844.S9L10	84	9,5	0,43	10	12	0,027



980 "Cut All" general-purpose shears

AN EFFORTLESS CLEAN CUT EVERY TIME

Aluminium sheet (up to 1 mm thick), hard metal sheet (up to 0.5 mm), PVC, cardboard, rubber, floor coverings up to 5 mm thick. Hoses, plastic ties, small diameter pipes, electric cables (up to Ø 2.5 mm), insulating foam, wrapping paper... And many other applications.

Precise
- *serrated blades, no risk of slipping.*

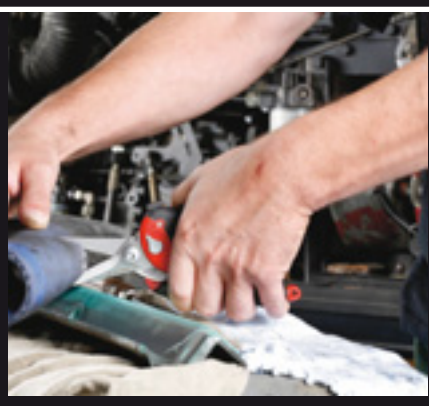
Smart
- *2 opening positions, adapts to your hand. (26 mm / 36 mm)*

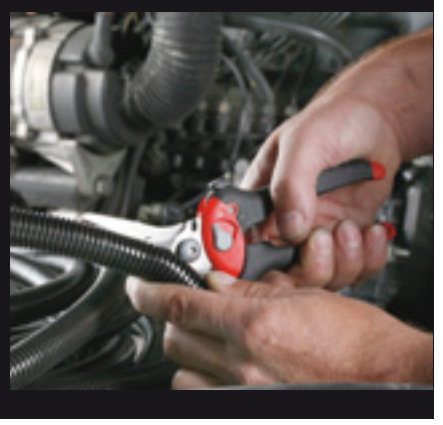
Safe
- *Locks in closed position.*

Comfortable
- *Non-slip bi-material grips.*

980C - Angled serrated shears

- *Ideal for cutting long lengths*
- *Keeps the hand away from the cutting operation.*





980 Universal shears

- 980 : straight blade version.
- 980C : angled blade version.
- 2 opening positions :
- Blade opening 29 to 36 mm.
- Handle opening 77 to 102 mm.
- Comfortable : Non-slip bi-material grips.
- Safe : Locks in closed position..
- Accurate : Slightly serrated blade prevents any risk of slippage.
- Cardboard, rubber, PVC, leather 5 mm thick.
- Thin sheet steel 0.5 mm thick, aluminium sheet up to 1 mm thick.
- Electric cables up to 2.5 mm dia.
- Hoses, tubes, insulating foam, etc.

	L mm	B mm	C mm	g
980	205	67	49	201
980C	205	67	49	201

Scissors

"Stubby" scissors

841.0

- Long, strong and pointed blades, with wire cutter.
- Left/right hand.
- Polished chrome finish.

	Blade length mm	Total length mm	⚖ g
841.0	43	125	65

Sheathed electricians scissors

841.4

- Plastic moulded sheathing.
- Long blades, with wire cutter.
- Hardened setting screw.

	Blade length mm	Total length mm	⚖ g
841.4	56	144	90

Electricians scissors

841

- Long blades, with wire cutter.
- Polished chrome finish.

	Blade length mm	Total length mm	⚖ g
841	33	150	94

Heavy-duty scissors

841.7

- Industrial model built and sized to cut leather, rubber, carpet, fabric, etc.
- Right handed handles.
- Polished chrome finish.

	Blade length mm	Total length mm	⚖ g
841.7	115	255	420

Offset scissors

841.6

- Strong scissors. Right hand. Offset handles.
- For leather, rubber and other materials.
- Polished chrome finish.

	Blade length mm	Total length mm	⚖ g
841.6	115	240	235

Multi-purpose scissors

- Titanium coated stainless steel scissors for a perfect cut along the full blade length.
- Non-slip bi-material handle for a better grip and comfort of use.

	Blade length mm	Total length mm	⚖ g
841.8A	92	227	119
841.9	112	232	135

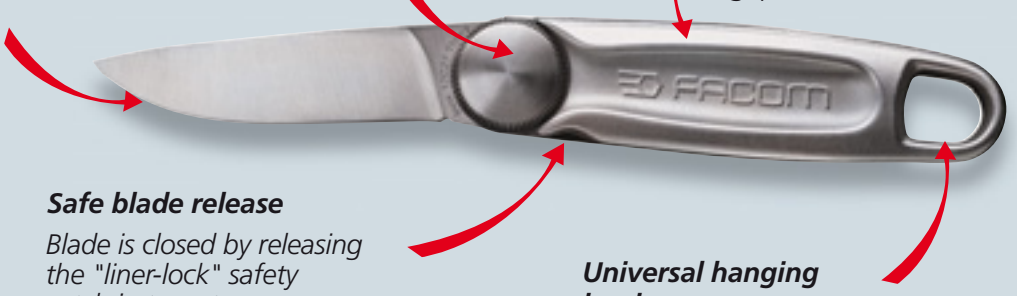
840 LE

THE KNIFE DESIGNED AS A TOOL

Comfortable
Safe one-handed thumbwheel
blade opening (left or right hand).

Ergonomic
One-piece brushed stainless steel handle for a better grip.

Stainless steel
12C27 stainless steel blade.



Safe blade release
Blade is closed by releasing the "liner-lock" safety catch in two stages.

Universal hanging hook.

Comes with horizontal leather case
for complete freedom of movement and compliance with the safety regulations.

Folding knife

840LE

- 12C27 stainless steel construction
- Quick one-handed opening.
- Right/left hand.
- Liner lock safety catch and 2 stage release.
- Universal hanging hook.
- Closed length 115.5 mm.
- Total length : 189 mm, blade length : 73.5 mm, closed length : 115.5 mm.
- Comes with horizontal leather case.

⚖ : 246 g.

Lock-back knife

840.4A

- Polished stainless blade.
- Rosewood handle and nickel silver bolster.
- Fits case 840.E.
- Blade length 78 mm; closed length 105 mm.

⚖ : 160 g.

Case

840.E

- Real leather. Worn on belt.
- Takes knives 840.3 and 840.4A.
- Closed length 150 mm.

⚖ : 53 g.

Pocket knife

840.2

- Carbon-steel burnished blade.
- Black plastic handle unscrews for maintenance.
- Blade length 75 mm.
- Closed length : 105 mm.

⚖ : 75 g.

Locking pocket knife

840.3

- Lock-back design.
- Carbon-steel burnished blade.
- Rosewood handle unscrews for maintenance. Hanging clip.
- Supplied with leather thong. Fits case 840.E.
- Blade length 95 mm; closed length 120 mm.

⚖ : 127 g.

Twin-blade electricians knife

640180

- Ideal for all common cable cutting and stripping tasks..
- 1 straight hollow ground general-purpose blade.
- 1 short curved blade, specially designed for cable work (640180).
- 1 lock-back for each blade.

	Number of blades	L mm	⚖ g
640180	2	42	100

Single-blade electricians knife

631013

- Ideal for all cable cutting and stripping tasks.
- 1 lock-back for each blade.
- Hollow ground blades for increased strength.
- Ergonomic handle providing a firm grip.

	Number of blades	L mm	⚖ g
631013	1	30	100

Electricians knife

840B

- Billhook blade 65 mm.
- Black plastic handle.
- Closed length 100 mm.

⚖ : 63 g.

Twin-blade electricians knife

843

- Billhook blade 65 mm.
- Straight 80 mm blade
- Wood handle.
- Closed length 100 mm.

⚖ : 83 g.

Electricians knife with wire stripper

840.1

- 1 blade with half-moon notch for stripping and vee for cutting.
- Rosewood handle.
- Closed length : 105 mm.

⚖ : 64 g.

Punch kits

These kits are used to cut out clean and accurate circular gaskets in a variety of materials including cardboard, leather, rubber and fabric. To cut holes Ø 3 to 50 mm, use a punch 245A.T with a shank 245A. M. To cut holes Ø 44 to 420 mm, use calipers with centre-point and cutter All components are available either separately or in kits.

"Standard" kit

245.J1

- For making round gaskets.
- Cutting capacity : Ø 3 to 30 mm using a punch and Ø 56 to 330 mm using calipers.
- Supplied in a plastic case BP.115 and tray PL.100A.
- Dimensions 332 x 143 x 67 mm.

⚖ : 1.8 kg.

"Maintenance" kit

245.J2

- Cutting capacity Ø 3 to 50 mm using a punch and Ø 44 to 420 mm using calipers.
- Supplied in a plastic case BP.109 and tray PL.99A.
- Dimensions : 472 x 195 x 53 mm.

⚖ : 3.7 kg.

Calipers

245A.C

- Cutting capacity Ø 44 to 420 mm.
- Supplied in a plastic case : 260 x 90 x 40 mm.

⚖ : 590 g.

245A Gasket cutter for calipers

	Ø mm	245.J1	245.J2
245A.T3	3	•	•
245A.T4	4	•	•
245A.T6	6	•	•
245A.T8	8	•	•
245A.T10	10	•	•
245A.T12	12	•	•
245A.T14	14	•	•
245A.T16	16	•	•
245A.T18	18	•	•
245A.T20	20	•	•
245A.T22	22	•	•
245A.T24	24	•	•
245A.T26	26	•	•
245A.T28	28	•	•
245A.T30	30	•	•
245A.T32	32		•
245A.T34	34		•
245A.T36	36		•
245A.T38	38		•
245A.T40	40		•
245A.T42	42		•
245A.T44	44		•
245A.T46	46		•
245A.T48	48		•
245A.T50	50		•

	245.J1	245.J2	245.AC
245A.M1	•		
245A.M2	•		
245A.M3	•		
245A.M4	•	•	
245A.P1	•	•	•
245A.C1	•	•	•
245A.B1	•		
245A.B2	•	•	

FACOM
U.312-01

12. Pullers

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NEW

U232 self-gripping 2-leg puller

Strength and simplicity

Advantages

- Inside or outside grip
- Easy leg reversal
- Anti-rotation system

N 540

NEW

U301 Wide 2-leg puller range

Compact puller with "wrap-around" legs for improved grip

Advantages

- Self gripping and self centring
- One-handed installation
- Safety shear pins

N 542

NEW

Effortless 10 Tonne pulling force

Advantages

- **Easy to operate: gradual, effortless transmission of power**
- **Added safety: high strength design and safety valve**

N 532

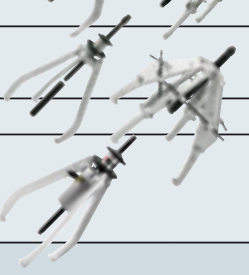
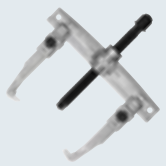
Selection guide

A choice of 90 pullers for all types of components up to 800 mm.

The right questions to ask when choosing a puller

- *What type of component is to be removed ? = bearing, pulley, studs or nuts.*
- *What is the diameter of the component to be removed ? = choice of spread.*
- *How is the component to be gripped ? = choice of type of grip : outside grip, inside grip, special grip.*
- *How is the component to be pulled ? = choice of bearing point : on the central axis, on the outside of the component, no available bearing point (= need to use puller accessories).*

Bearings **Pulleys** **Studs** **Outside grip** **Inside grip**

Spread ◀ mm ▶	Reach ▲ mm	Force T	Force kN		Characteristics	
Outside grip - Adjustable 2 or 3 leg pullers						
◀7-140▶	▲147	3	30	U.306A-140	*System U.306 - 2 or 3 legs - Inside or outside grip - Self gripping - self centring*	P.526
◀10-180▶	▲200	4	40	U.306-180		P.526
◀20-260▶	▲250	4	40	U.306-260		P.526
◀15-170▶	▲170	10	100	U.310-170		P.527
◀15-250▶	▲250	10	100	U.310-250		P.527
Outside grip - 3 leg pullers						
◀6-80▶	▲90	1	10	U.302	*Compact series slim legs*	P.528
◀6-150▶	▲150	1,1	11	U.302-150		P.528
◀6-200▶	▲200	1,7	17	U.302-200		P.528
◀25-170▶	▲160	7	70	U.20	*Force*	P.529
◀25-260▶	▲220	7	70	U.20B		P.529
◀30-800▶	▲720	-	-	U.27AS3		P.530
◀100-360▶	▲400	20	200	U.320	 *Heavy duty*	P.531
◀100-530▶	▲550	30	300	U.330		P.531
◀100-650▶	▲695	100	1000	U.60B	*Very heavy duty*	P.531
◀45-270▶	▲260	10	100	U.312H	*Heavy duty hydraulic*	P.532
◀100-360▶	▲265	20	200	U.320H		P.536
◀100-530▶	▲395	30	300	U.330H		P.536
Inside or outside grip - 2 leg pullers						
◀20-80▶ ▶90-140◀	▲85	2	20	U.32T2-8	*Lockable reversible 2-leg puller*	P.539
◀20-120▶ ▶90-180◀	▲85	2	20	U.32T2-12		P.539
◀20-160▶ ▶130-250◀	▲140	6	60	U.32T6-16		P.539
◀20-200▶ ▶130-290◀	▲140	6	60	U.32T6-20		P.539
◀25-250▶ ▶180-380◀	▲170	15	150	U.32T15-25		P.539
◀25-360▶ ▶180-480◀	▲170	15	150	U.32T15-35		P.539
◀25-500▶ ▶180-530◀	▲270	15	150	U.32T15		P.539
◀25-65▶ ▶55-90◀	▲65	1,5	15	U.232-65	*Reversible 2-leg puller*	P.540
◀30-90▶ ▶75-110◀	▲100	3	30	U.232-90		P.540
◀45-130▶ ▶75-160◀	▲100	3	30	U.232-130		P.540
◀45-160▶ ▶120-200◀	▲145	4	40	U.232-160		P.540
◀45-210▶ ▶120-250◀	▲145	4	40	U.232-210		P.540
◀65-270▶ ▶140-340◀	▲190	5	50	U.232-270		P.540
◀65-340▶ ▶140-390◀	▲190	5	50	U.232-340		P.540

Spread ◀ mm ▶	Reach ▲ mm	Force T	Force kN		Characteristics	
Outside grip - 2 leg pullers						
◀10-35 ▶	▲37	-	-	U.14A	Compact series slim legs	P.541
◀10-45 ▶	▲58	-	-	U.14L		P.541
◀10-80 ▶	▲90	0,9	9	U.301		P.541
◀10-150 ▶	▲150	1	10	U.301-150		P.541
◀15-200 ▶	▲200	1,3	13	U.301-200		P.541
◀10-50 ▶	▲70	1	10	U.301P	Compact series wide legs	P.542
◀10-100 ▶	▲100	1,1	11	U.301M		P.542
◀10-110 ▶	▲130	1,7	17	U.301L		P.542
◀10-55 ▶	▲75	1	10	U.35P	wide legs	P.543
◀10-75 ▶	▲90	4	40	U.35		P.543
◀15-75 ▶	▲130	3	30	U.35L		P.543
◀40-180 ▶	▲245	7	70	U.34		P.543
◀10-85 ▶	▲120	1,5	15	U.42	Slim legs with yoke	P.544
◀10-85 ▶	▲180	1,5	15	U.42B		P.544
◀10-150 ▶	▲130	6	60	U.52		P.544
◀130-156▶	▲80	-	-	DM.31	Special for grooved pulleys pitch = 3.56mm	P.544
◀45-175 ▶	▲	-	-	DM.50		P.766
Special inside grip						
▶23-130 ◀	▲140	3	30	U.306A-130N	System U.306	P.526
▶50-170 ◀	▲190	4	40	U.306-170N		P.526
▶50-230 ◀	▲190	4	40	U.310-230N		P.528
Inside grip - Adaptable 2 or 3 leg pullers						
▶32-70◀	▲ -	-	-	U.51B		P.546
▶70-160 ◀	▲ -	-	-	U.28		P.546
▶6-60 ◀	▲ -	-	-	U.49P1 à U.49AD10		P.547
▶20-200 ◀	▲240	-	-	U.23D5 à U.23D32		P.545
Stud extractors						
◀3-50 ▶	▲ -	-	-	285	Flush broken studs, right-hand thread	P.553
◀6-14 ▶	▲ -	-	-	885	Flush broken studs, right and left-hand thread	P.554
◀5-20 ▶	▲ -	-	-	286A	Multi-diameter tool for removing/refitting or pulling studs	P.554
◀15-27 ▶	▲ -	-	-	286PL		P.554
◀6-16 ▶	▲ -	-	-	287B	Single-diameter tool for removing/refitting or pulling studs	P.555
Separators - Beams - Threaded adaptors						
◀5-250 ▶	▲ -	-	-	U.53T	Separators	P.551
◀25-95 ▶	▲100	-	-	U.23K	Beams	P.551
◀40-400 ▶	▲350	-	-	U.53K		P.551
Ø M4-M14	▲ -	-	-	U.53E	Threaded adaptors	P.552

Slide hammers

Compatible pullers		Kg		
U.49P1 → U.49P4	M8	0,2	U.49L	P.549
U.49P5 → U.49P9	Tr1/2	1,0	U.49AM	P.549
U.49P5 → U.49P9 / U.49AD10 / U.35(L) / U.42(L) / U.32T2	M16	1,6	U.306M	P.549
U.20(B) / U.310(-230N) / U.32T6-16 / U.32T6-20	M22	5,2	U.2	P.549

Information

The quoted pulling powers are the actual powers obtained in the laboratory under normal working conditions. All our pullers are designed to provide maximum safety and reliability.

Safety

As soon as access allows, use a 3-leg rather than a 2-leg configuration.
Check that the puller is properly aligned with the axis before applying the pulling force.

FACOM, YOUR PULLER SPECIALIST

FACOM : designer and manufacturer.

• *A comprehensive range.*

• *Your safety : our priority.*

- The design, choice of materials and optimisation of Facom's pullers ensure guaranteed safety and reliability.
- Facom has developed a "force limiting" safety system consisting of a shear pin that fails when the maximum allowable torque is reached (series U.306/310 and U.20)

Pullers : it pays to be ready.

• *Saves time : having the right puller readily to hand allows a speedy response in the event of a breakdown, and a quick resumption of production.*

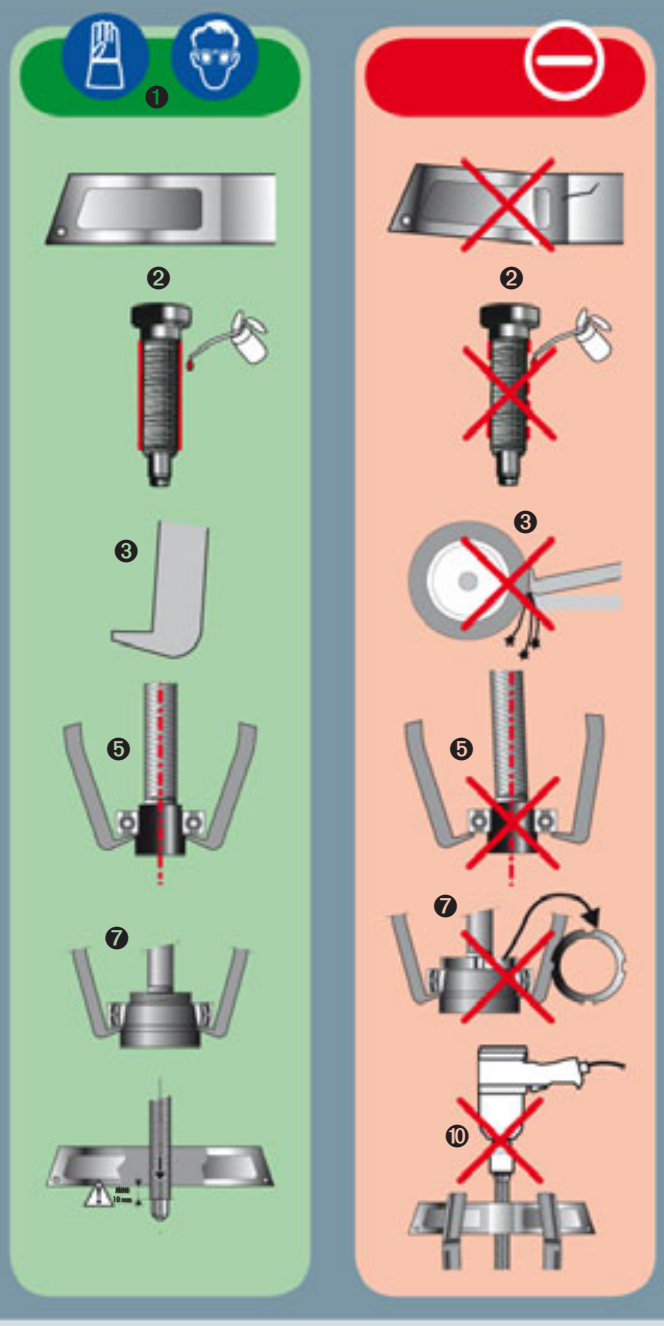
• *A sound investment : when a machine breaks down, each second of lost production represents a great deal of money. A puller often pays for itself after just one use.*

Pullers : safety first

FACOM'S 10 TIPS :

Pulling components can involve very high forces.

The operation can therefore be very hazardous, which is why pullers require professional handling



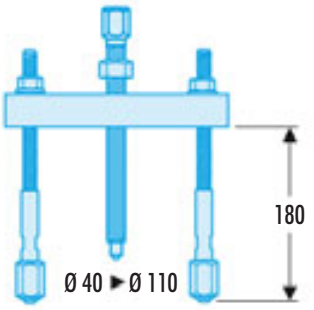
❶ *Wear eye protection and gloves (see section 15).*
❷ *Always ensure that a puller is in good condition and that the screw is evenly lubricated.*
❸ *Never modify a puller Do not grind or weld the legs. Modifications can be very dangerous for the user and invalidates the guarantee.*
❹ *Wherever possible, select a 3-leg puller for optimum load distribution.*
❺ *Position the legs carefully, making sure that the puller is straight in relation to the line of traction.*
❻ *Where possible, use a net (or sheet) to cover both the puller and the part being removed, in case the assembly springs apart suddenly.*
❼ *Before applying pressure, check that the component is free to move, i.e. that all brackets, pins and nuts have been removed.*
❽ *Never stand behind a puller - stay to one side.*
❾ *Ask any bystanders to keep their distance.*
❿ *Apply pressure to the puller screw progressively. Do not use impact wrenches.*

Workshop panels

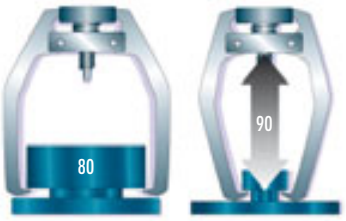
Light-engineering kit

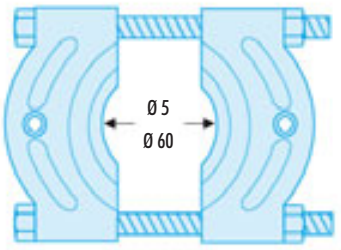
U.JA1

• Comprising :
- 2 slim-leg outside grip pullers = U.301 and U.302 (Spread : 15 to 80 mm).
- 4 inside expansion pullers = U.49P1 to U.49P4 (Spread : 6 to 18 mm).
+ slide hammer U.49L.
- 1 outside separator for difficult applications = U.53T1 (Spread : 5 to 60 mm) and beam U.53K1.
• Display panel PK.2.



	Dimensions mm	kg
U.JA1	444 x 444	4,3

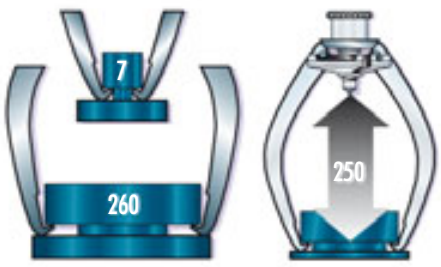


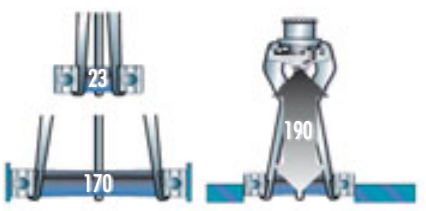


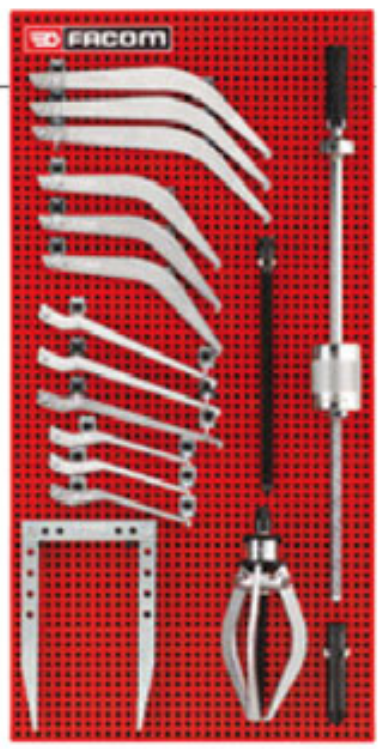
4-Tonne kit

U.J2

• Comprising :
- 1 outside leg puller = U.306A140 (Spread : 7 to 140 mm).
- 2 sets of 3 long legs for outside grip = U.306G10 (Spread : 10 to 180 mm) and U.306G15 (Spread : 20 to 260 mm).
- 2 sets of 3 long legs for inside grip = U.306G2 (Spread : 23 to 130 mm) and U.306G20 (Spread : 60 to 170 mm).
- 1 long screw with end cap U.306-3
- 1 beam U.40 (attached using ring and nut U.306A1, supplied with the kit).
- 1 slide hammer U.306M.
• Display panel PK.1.





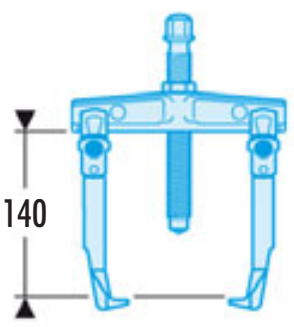


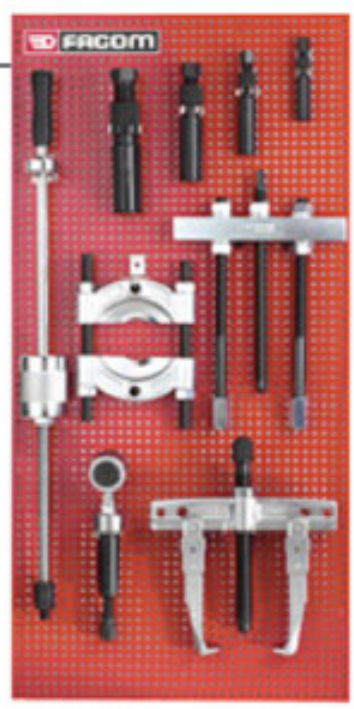
	Dimensions mm	kg
U.J2	444 x 888	12,4

General engineering kit

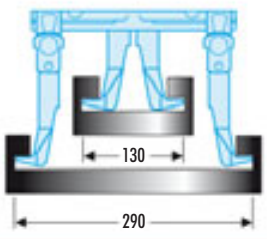
U.JA3

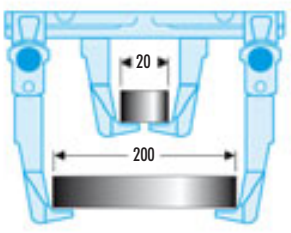
• Comprising :
- 1 sliding-leg puller = U.32T6-20 outside grip (Spread : 20 to 200 mm) / inside grip (Spread : 130 to 290 mm).
- 1 separator U.53T2 (Spread : 15 to 110 mm) and beam U.53K2.
- 4 expansion pullers U.49P5 to U.49P8 (Spread : 18 to 50 mm).
- 1 slide hammer U.306M with adaptor U.49BR1.
- 30-tonne jack U.33A.
• Display panel PK.1.

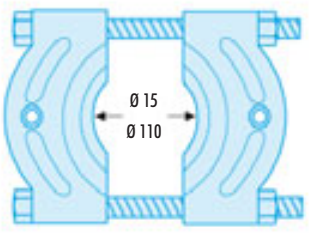




	Dimensions mm	kg
U.JA3	444 x 888	15,5







Case sets

Light-engineering kit

U.301BJ1

• Comprising :
- 1 outside puller U.301 (Spread : 10 to 80 mm).
- 4 expansion pullers U.49P1 to U.49P4 (Spread : 6 to 18 mm).
- 1 beam U.53 KLO.
• Supplied in a plastic case BP 112 and tray PL.182B.

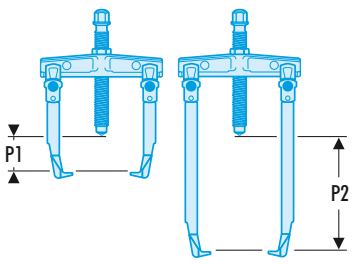
	Dimensions mm	kg
U.301BJ1	390 x 170 x 170	2,1

General engineering kit

U.102T

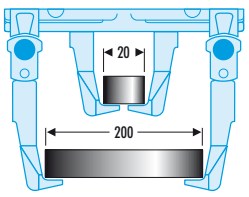
• Comprising :
- U.32T2-8 : 2-tonne sliding-leg puller and set of long legs; reach P1 : 85 mm, P2 : 185 mm
- U.32T6-20 : 6-tonne sliding-leg puller and set of long legs; reach P1 : 140 mm, P2 : 280 mm
- U.53T2 : separator (Spread : 15 to 110 mm).
- U.33A : 30-tonne jack.
• Supplied in a steel case BT.108 with tray PL.287 and PL.288.

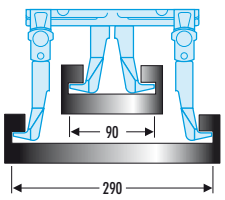
PL.288



PL.287

	Dimensions mm	kg
U.102T	450 x 270 x 110	14,5



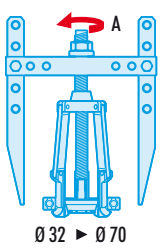


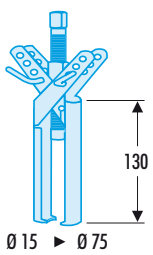
General engineering kit

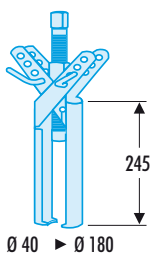
U.103A

• A complete set offering normal pulling power for all general engineering applications.
• Comprising :
- U.35L (Spread : 15 to 75 mm) and U.34 (Spread : 40 to 80 mm) : wide-leg outside pullers.
- U.51B : bearing inside puller (Spread : 32 to 70 mm).
- U.40 : beam.
- U.33A : 30-tonne jack.
• Supplied in a steel case BT.108 with tray PL.195A.

	Dimensions mm	kg
U.103A	452 x 286 x 111	13,3







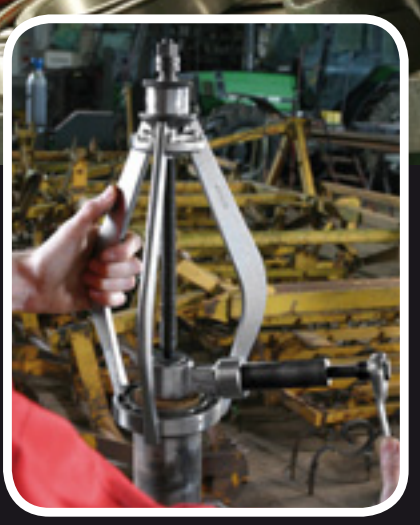
Reversible universal 3-leg puller

U.306/310

Covers 80 % of common applications

Exclusive Facom body.

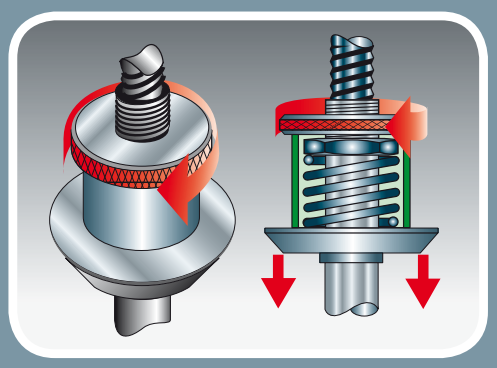
Easier, safer..



Safe

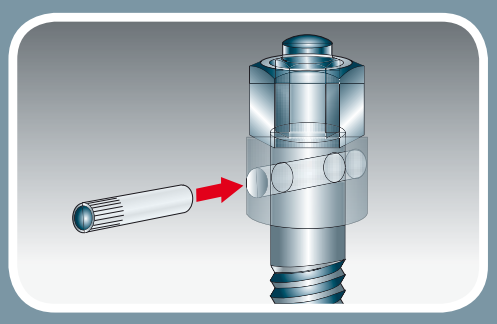
Locknut

• Tightening the locknut securely locks the legs in place.



Shear pin

• The pin shears if torque limit is exceeded.

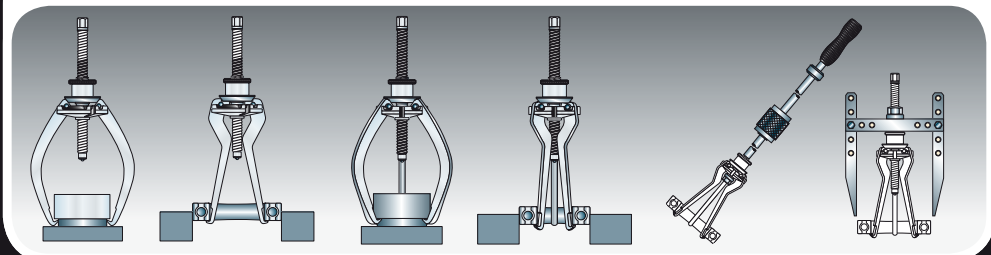


PRACTICAL, EFFICIENT, VERSATILE

Versatile

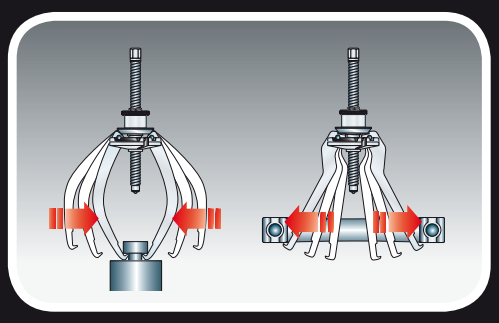
• Based on a single body, the U.306/U.310 system can be configured to perform all routine mechanical engineering pulling operations
• Puller accessories provide a full range of pulling solutions.

Inside or outside configuration 2 or 3-leg pullers, with or without accessories.



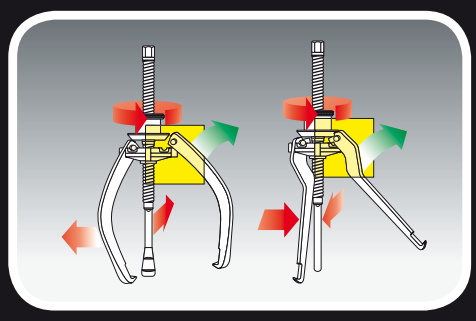
Easy to use

- Self-gripping.
- Self-centring.



Easy leg change

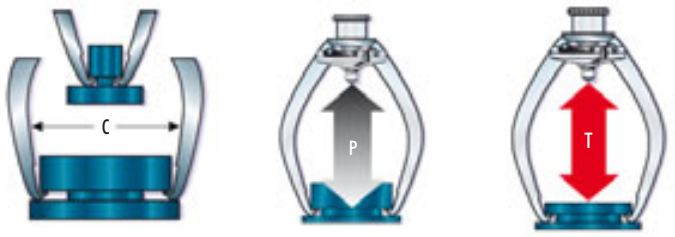
• Compress the spring.
• Remove the leg in place and place the desired new leg.



U.306 outside pullers

• Puller accessories = Slide hammer U.306M (direct attachment) and beam U.40 (attached using ring and nut U.306A1 to be ordered separately).

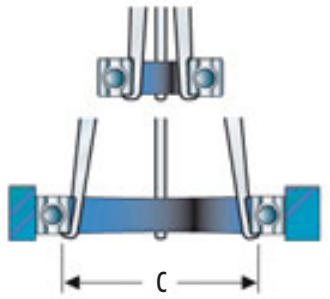
	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Screw	⬣ mm	⧋ kg
U.306A140	7 - 140	147	3	30	U.306G1	U.306-4	18	1,6
U.306-180	10 - 180	200	4	40	U.306G10	U.306-2	18	3,0
U.306-260	20 - 260	250	4	40	U.306G15	U.306-3 + U.306-3-03	18	3,9



U.306N Inside pullers

• Puller accessories = Slide hammer U.306M (direct attachment) and beam U.40 (attached using ring and nut U.306A1 to be ordered separately).

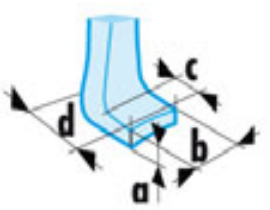
	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Screw	⬣ mm	⧋ kg
U.306A130N	23 - 130	140	3	30	U.306G2	U.306-4	18	1,3
U.306-170N	50 - 170	190	4	40	U.306G20	U.306-2	18	2,5

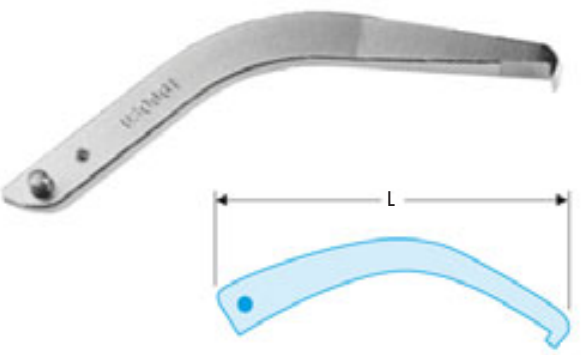


Spare legs for puller U.306

• For your safety, we recommend that all the legs are replaced in the event of a problem.
• Legs supplied individually.

	L mm	a mm	b mm	c mm	d mm	Puller	⧋ kg
U.306G1	185	4,5	14	4	13	U.306A140	0,210
U.306G10	250	5	14	4	13	U.306-180	0,320
U.306G15	310	6,5	14	4	13	U.306-260	0,450
U.306G2	170	4,5	8	3,5	9,5	U.306A130N	0,180
U.306G20	230	6,5	8	4	12	U.306-170N	0,210

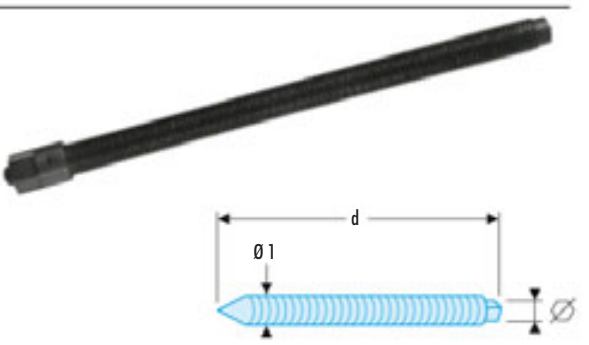




Spare screws for puller U.306

• Screw supplied individually.

	Ø mm	L mm	⬣ mm	Puller	⧋ kg
U.306-2	M16	310	18	U.306-180 / U.306-170N	0,410
U.306-3	M16	370	18	U.306-260	0,730
U.306-4	M16	250	18	U.306A140 / U.306A130N	0,340



Inside/outside puller kit

U.306J1

• Comprising :
- 1puller U.306A140.
- 3 inside legs U.306G2.
- 2 puller accessories : Slide hammer U.306M and beam U.40 (attached using ring and nut U.306A1, supplied with the kit).
• Spread :
- outside ∅ 7 to 140 mm.
- Inside ∅ 23 to 130 mm.
• Reach 140 mm.
• Supplied in a steel case BT.102 with tray PL.209.

	Sizes	⚖ kg
U.306J1	718 x 189 x 128	11,3

Inside/outside puller module

MOD.U306PB

• Comprising :
- U.306A140 : Puller (Spread : 7 to 140 mm).
- U.306G2 : 3 inside legs (Spread : 23 to 130 mm).
- U.306G10 : 3 long outside legs (Spread : 10 to 180 mm).
- U.14L : Compact puller (Spread : 10 to 45 mm).
- Tray PL.354
⚖ : 4.4 kg.

U.310 Outside pullers

• Puller with 2 or 3 interchangeable legs.
• Puller accessories (supplied separately) : hydraulic screw U.3 and slide hammer U.2.

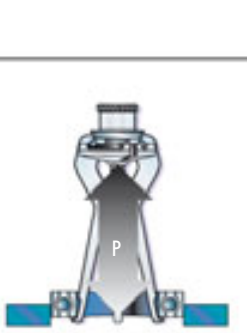
	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Screw	⬢ mm	⚖ kg
U.310-170	15 - 170	170	10	100	U.310G1	U.20B1	24	5,2
U.310-250	15 - 250	250	10	100	U.310G2	U.310-250-10	24	6,0

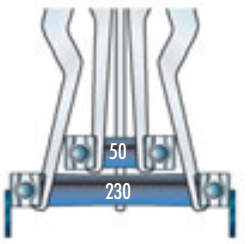
Inside puller

U.310-230N

- Puller fitted with 3 long legs.
- Puller accessories (supplied separately) : hydraulic screw U.3 and slide hammer U.2.
- Dimensions : 360 x 180 mm.

⧋⧊ : 4 kg.





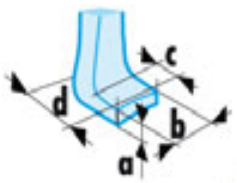
	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	⬢ mm	Screw	⧋⧊ kg
U.310-230N	50 - 230	200	10	100	U.310G3	24	U.20B1	4

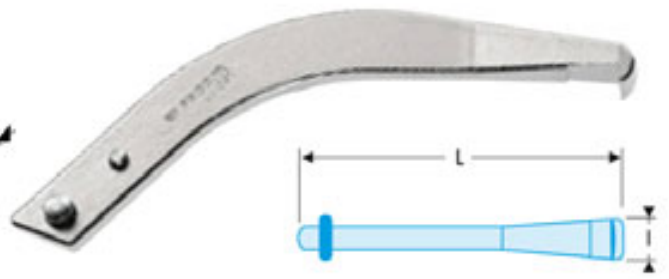
U.310-170 - U.310-250 - U.310-230N

	1
U.310-170	U.20B1
U.310-250	U.310-250-10
U.310-230N	U.20B1

Spare legs for puller U.310

- For your safety, we recommend that all the legs are replaced in the event of a problem.
- Leg supplied individually.





	L mm	a mm	b mm	c mm	d mm	Puller	⧋⧊ kg
U.310G1	230	6	26	5	19	U.310-170	0,600
U.310G2	310	7	26	5,5	19	U.310-250	0,840
U.310G3	260	10	12	5,5	15	U.310-230N	0,400

Spare screws for puller U.310

- Screws supplied singly.

	Ø mm	L mm	⬢I mm	Puller	⧋⧊ kg
U.20B1	M22	355	24	U.310-170 / U.310-230N	0,960
U.310-250-10	M22	355	24	U.310-250	1,100

Slim 3-leg pullers

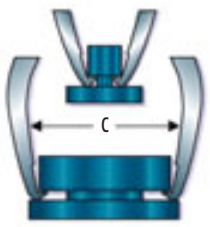
U.302 Self-gripping slim 3-leg pullers

- Range of pullers with spreads of 80, 150 and 200 mm.
- Puller accessories (supplied separately): slide hammer U.49AM.

Using adaptor U.301E1 (U.302 and U.302-150).

Using adaptor U.301E2 (U.302-200).

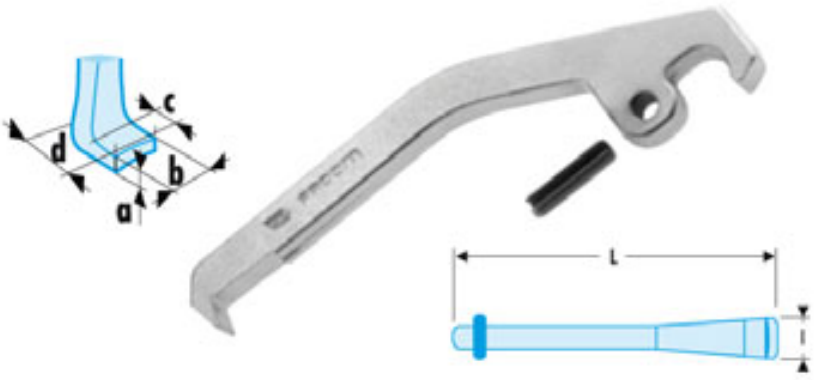
	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Screw	⬢ mm	⧋⧊ kg
U.302	17 - 80	90	1,5	15	U.301G	U.301-04	10	0,64
U.302-150	25 - 150	150	1,5	15	U.301-G150	U.301-04-150	10	1,02
U.302-200	25 - 200	200	2,4	24	U.301G-200	U.301-04-200	13	1,74



Spare legs for puller U.302

- For your safety, we recommend that all the legs are replaced in the event of a problem.
- Legs supplied individually.

	L mm	a mm	b mm	c mm	d mm	Puller	kg
U.301G	130	5	8	7	16	U.302	0.60
U.301G -150	205	6	8	7	17	U.302-150	0.84
U.301G - 200	270	6	8	7	18	U.302-200	0.40



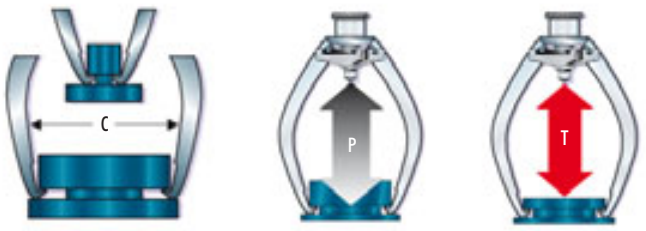
High capacity 3-leg pullers

Short-reach outside puller

U.20

- Shear pin prevents torque exceeding allowable limit.
- Supplied with 2 spare shear pins.
- Fitted with anti-rotation ring U.20-12.
- Puller accessories (supplied separately) : slide hammer U.2 and hydraulic screw U.3.

	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Screw	mm	kg
U.20	25-170	160	7	70	U.20SE4	U.20-1S	24	3,2

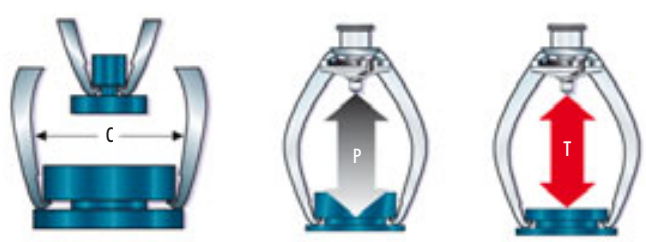


Long-reach outside puller

U.20B

- Shear pin prevents torque exceeding allowable limit.
- Supplied with 2 spare shear pins.
- Fitted with anti-rotation ring U.20-12.
- Puller accessories (supplied separately) : slide hammer U.2 and hydraulic screw U.3.

	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Screw	mm	kg
U.20B	25-260	220	7	70	U.20BSE4	U.20B1S	24	3,9

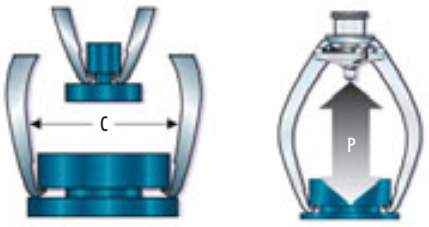


High-capacity outside puller

U.27AS3

• Can be fitted with long legs U.27D3 and linkage system U.27B3.

	C mini - maxi mm	P mm	∅ mm	Screw	ΔΔ kg
U.27AS3	30-460	360	35	U.27-6	12,4

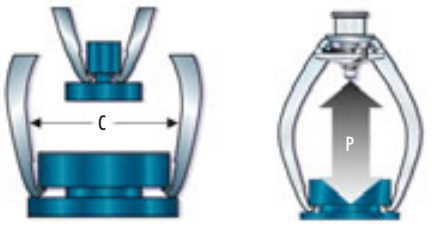


Set of 3 long legs for U.27AS3

U.27D3

• 3 long reach legs designed to fit puller U.27AS3.

	C mini - maxi mm	P mm	ΔΔ kg
U.27D3	40-460	480	4,6

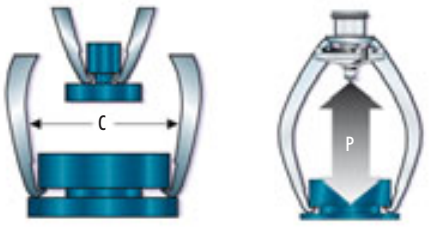


Set of 3 long links for U.27AS3

U.27B3

• Long links designed to increase spread of puller U.27AS3 from 460 to 800 mm.

	C mini - maxi mm	P mm	ΔΔ kg
U.27B3	50-800	600	20



U.27AS3 - Attachment options

LONG LEGS AND LINKS FOR INCREASED VERSATILITY

U.27AS3

Fitted with long legs.

Fitted with long links.
U.27D3

Fitted with standard legs and links.
U.27B3
- Spread : 30 to 460 mm.
- Max. reach : 360 mm.

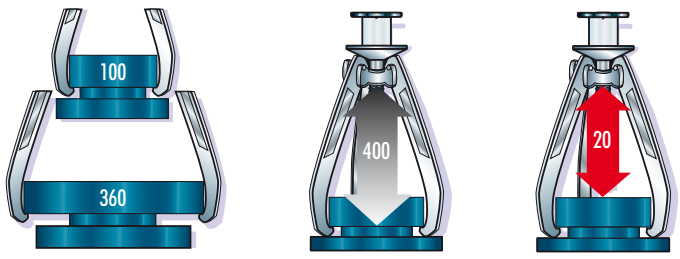
Fitted with long legs and links.
U.27D3 + U.27B3

High-capacity outside puller

U.320

- Force : 20 tonnes; 200 kN.
- Fitted with 3 outside-gripping legs.
- Supplied complete with screw extention : U.320-14.
- Dimensions : 700 x 250 x 250 mm.

	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Screw	⬣ mm	⚖ kg
U.320	100-360	400	20	200	U.320-13A	U.320-01	36	20

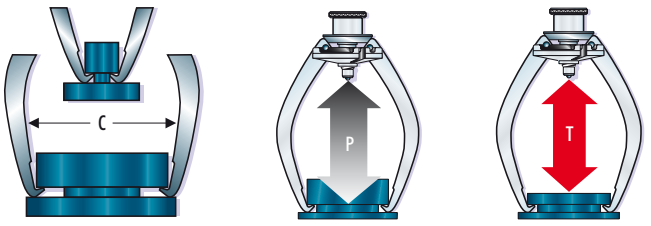


High-capacity outside puller

U.330

- Force : 30 tonnes; 300 kN.
- Fitted with 3 outside-gripping legs.
- Supplied complete with screw extention : U.330-14.
- Dimensions : 900 x 300 x 300 mm.

	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Screw	⬣ mm	⚖ kg
U.330	100-530	550	30	300	U.330-08	U.330-02	41	39

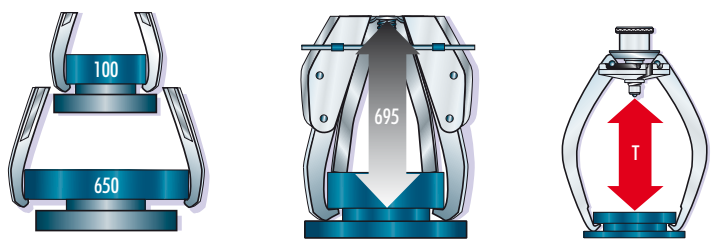


High-capacity outside puller

U.60B

- Force : 100 tonnes; 100 kN.
- 4 legs for very high forces.
- Fitted with a screw ∅ 50 x 400 mm hardened to 100 kg/mm².

	C mini - maxi mm	P maxi mm	T Tonnes	T kN	⚖ kg
U.60B	100-650	695	100	1000	66



Hydraulic 3-leg pullers

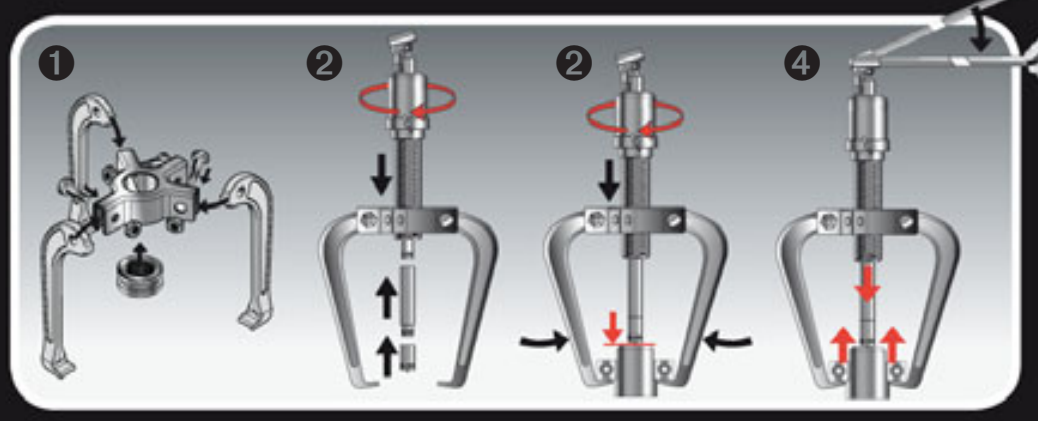
New

U.312H
Medium-duty hydraulic puller

10 TONNES OF EFFORTLESS PULLING FORCE READILY TO HAND

Versatile

- *Based on a single body that can be fitted with 4 different sizes of legs for bearings Ø 45 to 270 mm.*
- *2 or 3-leg configurations.*
- *For light to heavy engineering applications.*



1/ Assemble the body and the correct legs for the bearing.
2/ Position the jack and the puller.
3/ Pump the jack. The bearing will be removed safely and effortlessly.

Practical

The carry case (field servicing) dismantles for easy storage in the drawers of your FACOM JET XL roller cabinets (workshop servicing).

Safety first

- A safety valve hydraulically limits the jack to 10 tonnes.
- The other mechanical components can withstand much higher forces.

10T hydraulic puller set with 4 sets of legs

U.312HJ4

• Comprising :
- 10 tonne (100 kN) hydraulic jack U.312-01 + guide U.312-02 + set of 2 extensions U.312-03.
- A 2 or 3-leg puller body U.312-04 + centring screw U.312-04-01 + set of 3 screws/nuts U.312-04-02.
- 3 outside-gripping legs U.312G110 : Spread : 45 to 85 mm; Max. reach : 110 mm.
- 3 outside-gripping legs U.312G160 : Spread : 80 to 170 mm; Max. reach : 160 mm.
- 3 outside-gripping legs U.312G210, Spread : 90 to 210 mm; Max. reach : 210 mm.
- 3 outside-gripping legs U.312G260, Spread : 110 to 270 mm; Max. reach : 260 mm.
• Supplied in a plastic case U.312VAL 565 x 412 x 105 mm.
⚖ : 14.4 kg.

10T hydraulic puller set with 3 sets of legs

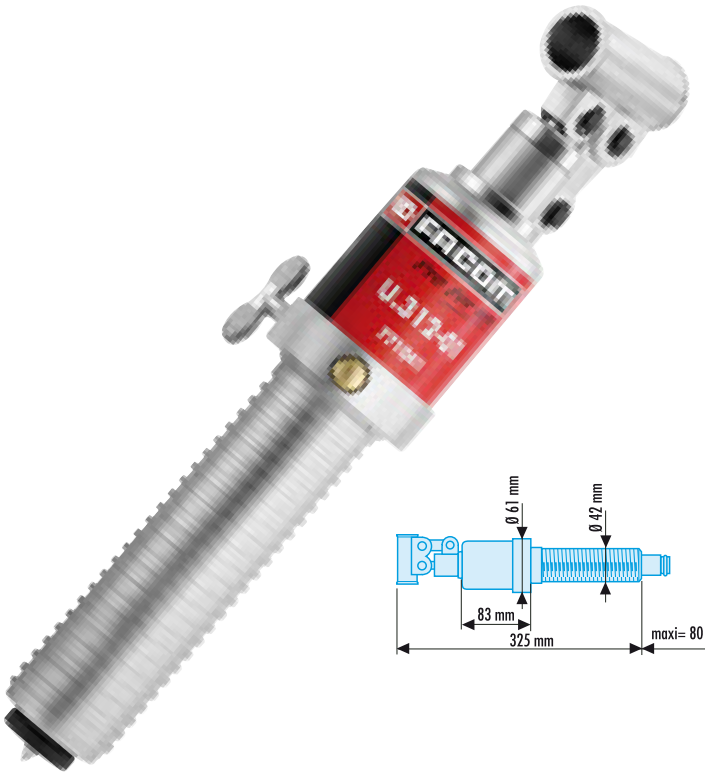
U.312HJ3

• Comprising :
- 10 tonne (100 kN) hydraulic jack U.312-01 + guide U.312-02 + set of 2 extensions U.312-03.
- A 2 or 3-leg puller body U.312-04 + centring screw U.312-04-01 + set of 3 screws/nuts U.312-04-02.
- 3 outside-gripping legs U.312G160 : Spread : 80 to 170 mm; Max. reach : 160 mm.
- 3 outside-gripping legs U.312G210, Spread : 90 to 210 mm; Max. reach : 210 mm.
- 3 outside-gripping legs U.312G260, Spread : 110 to 270 mm; Max. reach : 260 mm.
• Supplied in a plastic case U.312VAL, dimension : 565 x 412 x 105 mm.
⚖ : 13.2 kg.

10 T hydraulic jack for U.312H

U.312-01

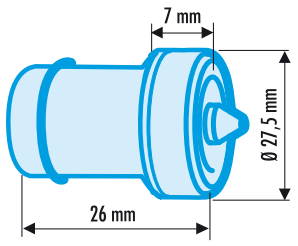
• Hydraulic jack : 10 tonnes; 100 kN pulling force.
• Rod stroke : 80 mm.
⚖ : 2.28 kg.



Guide tip for U.312H

U.312-02

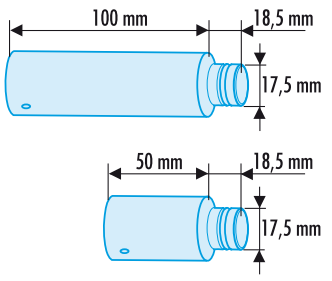
• For jack U.312-01.
⚖ : 0.08 kg.



Set of 2 extensions for U.312H

U.312-03

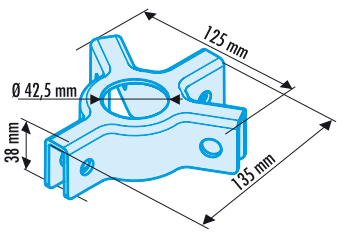
• For jack U.312-01.
⚖ : 0.420 kg.



2 or 3-leg body for U.312H

U.312-04

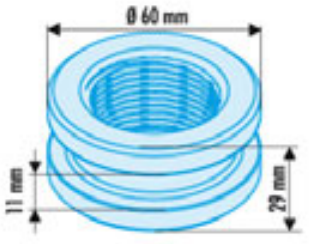
• This body allows 2 or 3 legs to be mounted using centring nut U.312-04-01 and the set of 3 bolts and nuts U.312-01-02.
⚖ : 0.44 kg.



Centring nut for U.312H

U.312-04-01

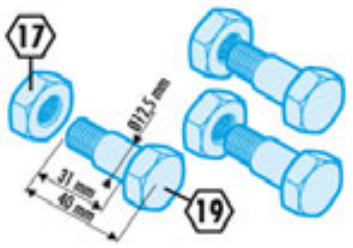
• This centring nut allows 2 or 3 legs to be mounted using the body U.312-04-04 and the set of 3 bolts and nuts U.312-01-02.
⚖ : 0.26 kg.



Set of 3 bolts and 3 nuts for U.312H

U.312-04-02

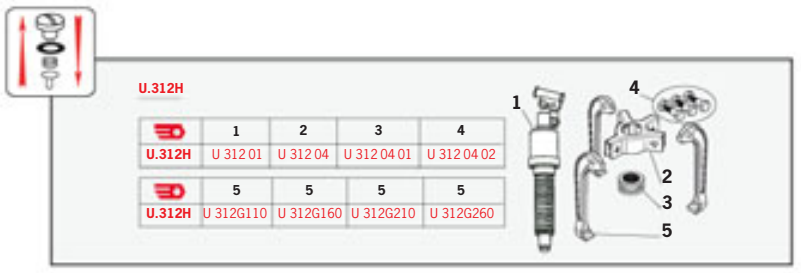
• Spare set of 3 bolts and 2 nuts for puller U.312H
⚖ : 0.2 kg.

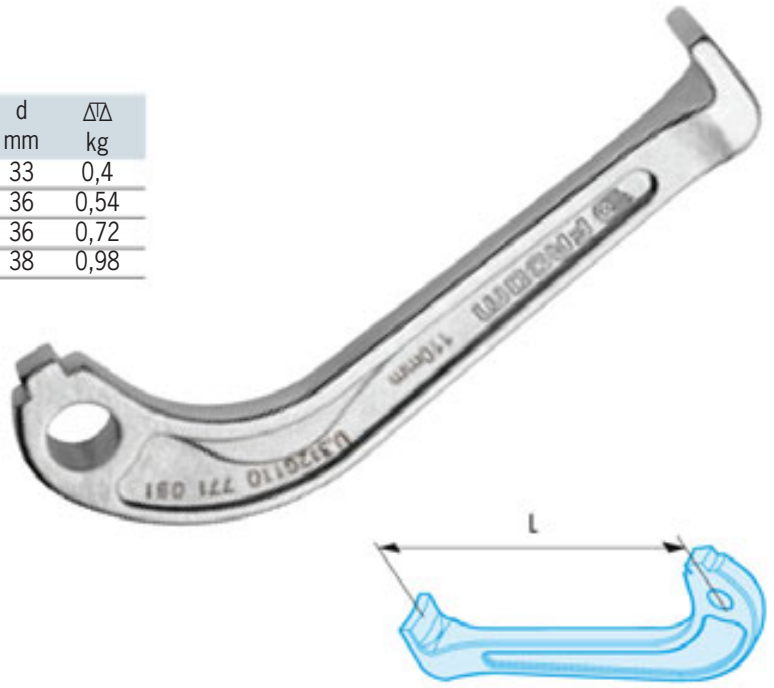


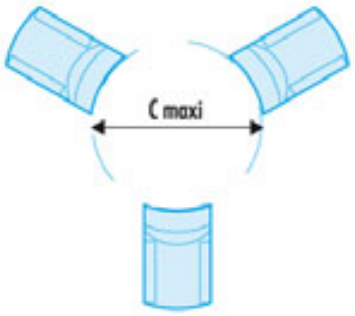
Spare legs for puller U.312H

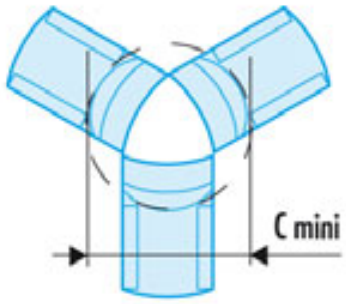
• For your safety, we recommend that all the legs are replaced in the event of a problem.
• Legs supplied individually.

	C mini - maxi mm	P maxi mm	T Tonnes	T kN	L mm	a mm	b mm	c mm	d mm	⚖ kg
U.312G110	45 - 85	110	10	100	150	7	25	15	33	0,4
U.312G160	80 - 170	160	10	100	200	7	25	15	36	0,54
U.312G210	90 - 210	210	10	100	245	7	25	15	36	0,72
U.312G260	110 - 270	260	10	100	295	7	25	15	38	0,98

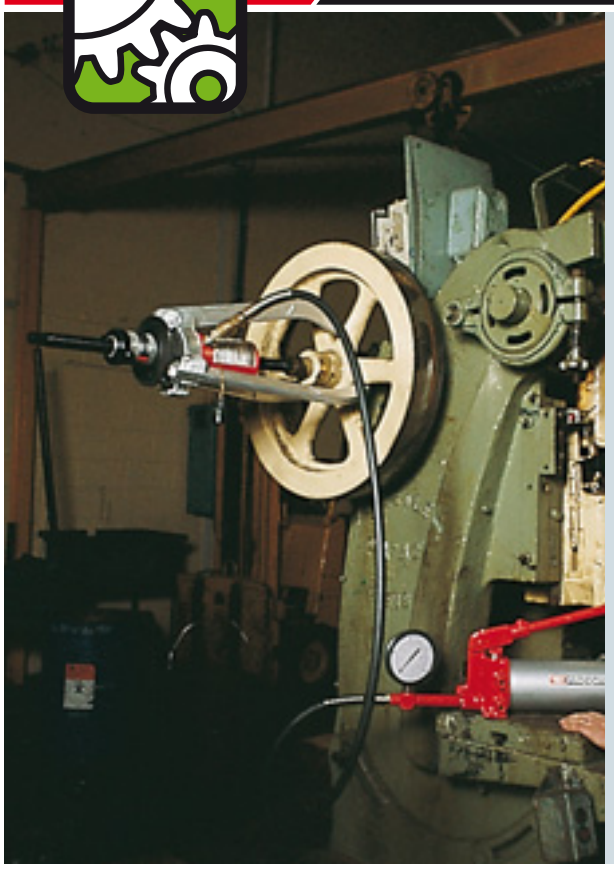








U.320H/U.330H - Heavy-duty Hydraulic pullers

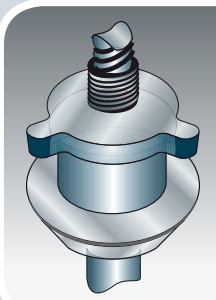


UP TO 30 TONNES IN COMPLETE SAFETY

Hydraulic models incorporate a hydraulic jack fitted with a standard male coupling. The jack is designed for pressures up to 700 bar and is supplied from a manual or powered pump.
Details of these accessories can be found under "Pumps and jacks".

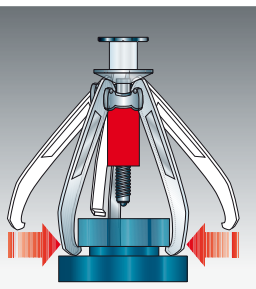
Powerful

- *Fluid power ensures effortless and fast removal, while the puller remains steady even when applied to rotating components. Hydraulic models are used only with 3 legs.*



Safe

Legs are secured with a locknut.



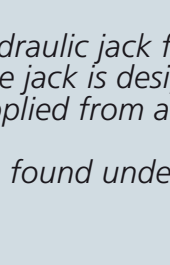
Automatic

Self-centring. Self-gripping.

20 T Hydraulic outside puller

U.320H

- Force : 20 tonnes; 200 kN.
- Fitted with 3 outside-gripping legs.
- 1 hollow jack UWG.320 with screw UWG.320H01.
- For use with 700 bar pump UWP.10M.
- Dimensions : 700 x 250 x 250 mm.
- ⚠ 3-leg configuration only when used with hydraulic jack.

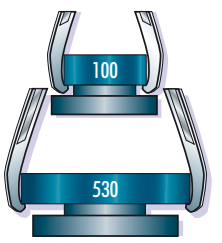


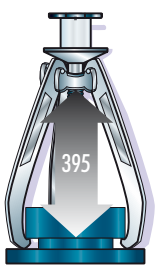
	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Jack	Screw	⬢ mm	⧋ kg
U.320H	100-360	265	20	200	U.320-13A	UWG.320	UWG.320H01	21	23

30 T hydraulic outside puller

U.330H

- Force : 30 tonnes; 300 kN.
- Fitted with 3 outside-gripping legs.
- 1 hollow jack UWG.330 with screw UWG.330H01.
- For use with 700 bar pump UWP.10M.
- Dimensions : 900 x 300 x 300 mm.
- ⚠ 3-leg configuration only when used with hydraulic jack.



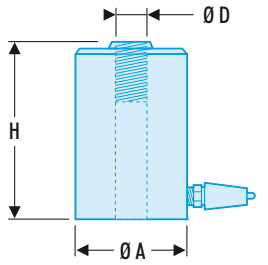


	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Jack	Screw	⬢ mm	⧋ kg
U.330H	100-530	395	30	300	U.330-08	UWG.330	UWG.300H01	21	45

Jacks and pumps

UWG Hollow jacks

• For use with pullers U.320H and U.330H.
• Plunger with tapped through-hole to take a centre screw for pressure or pulling applications.
• Actuated by 700 bar pump UWP.10M.
• Caps clip into plunger, allowing use as lifting jack.



	Force kN	Travel mm	Ø A mm	Ø D mm	H mm	Oil capacity cm³	⚖ kg
UWG.320	200	50	100	23,8	160	141,5	6,26
UWG.330	300	60	115	29,0	177	257,4	9,5

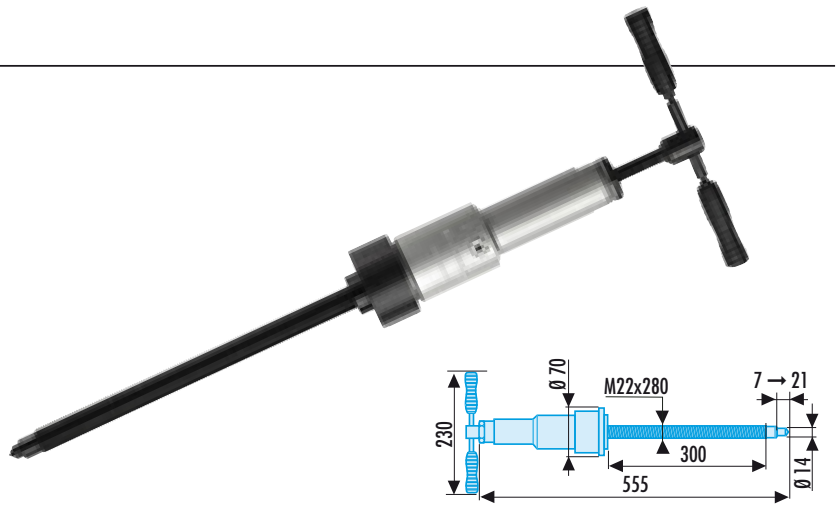
Screws for UWG jack

	⬣ mm	Length mm	Ø mm	Jacks	⚖ kg
UWG.320H01	21	590	27 x 300	UWG.320	2,3
UWG.330H01	25	780	33 x 350	UWG.330	4,5

Hydraulic screw

U.3

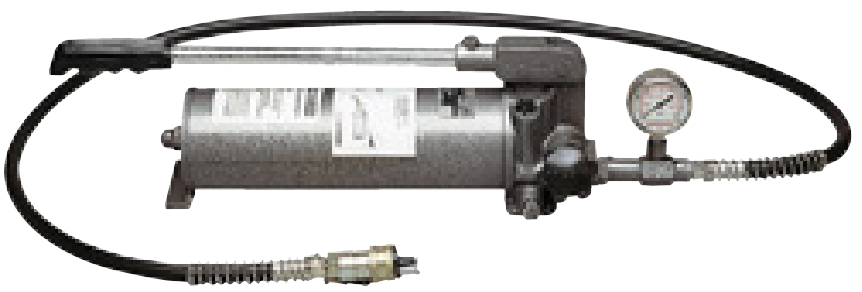
• Force : 10 tonnes ; 100 kN.
• Thread length : 300 mm.
• Plunger travel : 14 mm.
• Thread : Ø 22 x 200 compatible with Facom pullers U.20, U.20B, U.310, U.28, U.32T6-16, U.32T6-20.
⚖ : 4.53 kg.



2-speed hand pump

UWP.10M

• Manual pump with pressure gauge and relief valve, giving 2 flow rates :
- 1st stage : high flow, max. pressure 50 bar.
- 2nd stage : low flow, max. pressure 700 bar.
• For use with pullers U.320H, U.330H and hollow jacks UWG.320, UWG.330.
• Oil capacity : 1,500 to 2,500 cm³.
• Complete with 1.80m hose fitted with female quick coupler WA.1166F.
• Dimensions : 450 x 170 x 160 mm.
⚖ : 12.5 kg.



	Description
WA.21	Hydraulic oil - 2 litres

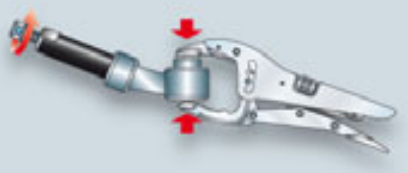
U.33A/U.66A - Hydraulic jacks

HYDRAULICALLY-ASSISTED PULLING ACTION

Used in conjunction with mechanical pullers, hydraulic jacks help separate the fittings to be removed

- *Place the jack between the component and the puller's screw.*
- *Centre the loads.*
- *Apply pressure axially.*

- *Hold the puller while tightening the screw to allow the plunder to extend.*
- *The bearing is removed*



Plunger retraction

- *Back off screw to release pressure.*
- *Use pliers or clamp to push back plunger.*

Safety first

- During screw tightening, a safety pin will shear if the maximum allowable torque is exceeded.
- When using both puller and jack, make sure generated forces are compatible.
- Never use pneumatic tools.

30 tonne jack with mechanical screw

U.33A

- Travel 5 mm.
- Shear-pin rating 110 Nm.
- Supplied with 2 shims 25 and 50 mm.
- ∅ 33 mm plunger
- Length : 260 mm, head height : 35 mm.
- Force : 30 tonnes; 300 kN.
- 19 mm hexagonal screw.

⚖ : 1.9 kg.

120 tonne jack with mechanical screw

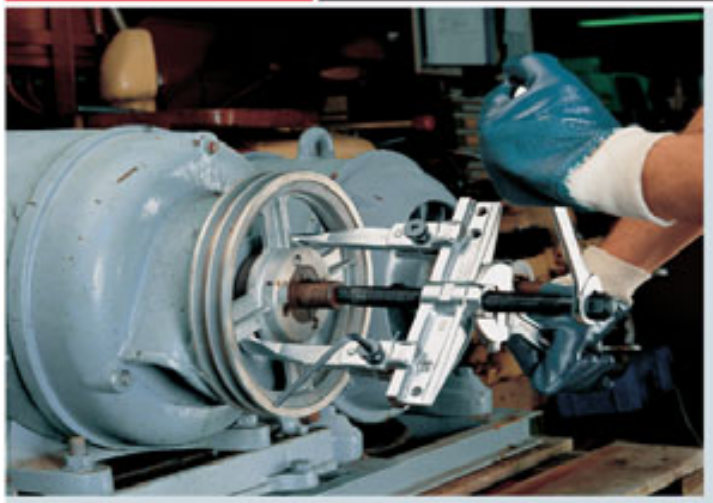
U.66A

- Travel : 15 mm.
- Shear-pin rating 550 Nm.
- ∅ 80 mm plunger; ∅ 47 mm bore.
- Head height : 105 mm. Length : 500 mm.*
- Force = 120 tonnes.
- ... mm hexagonal screw.

⚖ : 8.75 kg.

Reversible universal 2-leg pullers

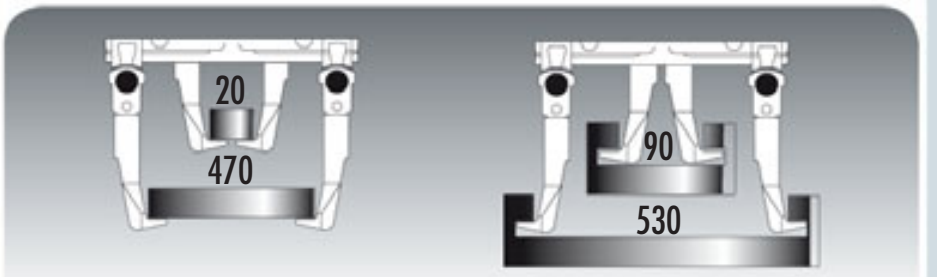
U.32T Lockable 2-leg puller



HIGH PERFORMANCE PULLER

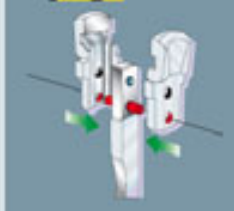
For inside and outside puller applications

2-leg puller, inside or outside grip



Inside and outside puller spread in millimetres.

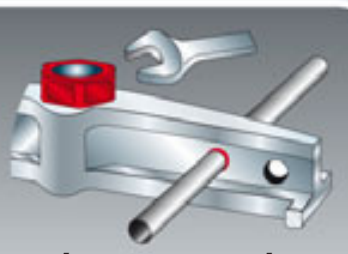
Safety first



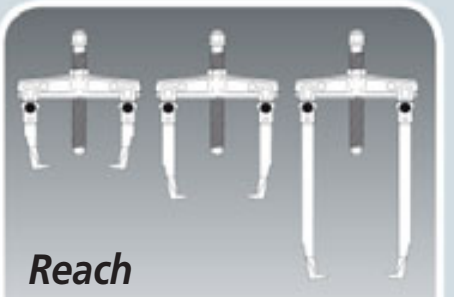
Pins
- *Leg-mounting pins ensure easy and safe fixing to beam. Pins are treated to withstand pulling stresses.*

Leg retainer
- *Beam end-stop prevents legs sliding off.*

Knurled locknut
- *Leg assembly locks in any position by hand-tightening the knurled locknut.*



Rotation prevention
- *Tightening the lock-nut with a wrench.*
- *Passing a rod through holes in the beam.*

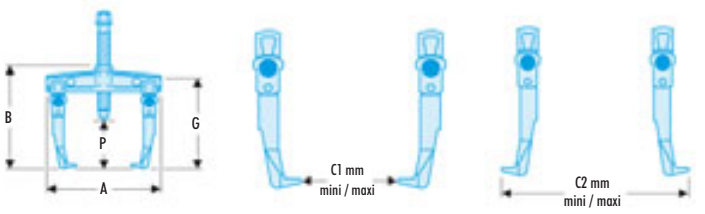


Reach

Long-leg sets are easily fitted to the beam using a unique system of attachment. They increase the reach up to 470 mm.

U.32T Lockable 2-leg sliding-leg puller

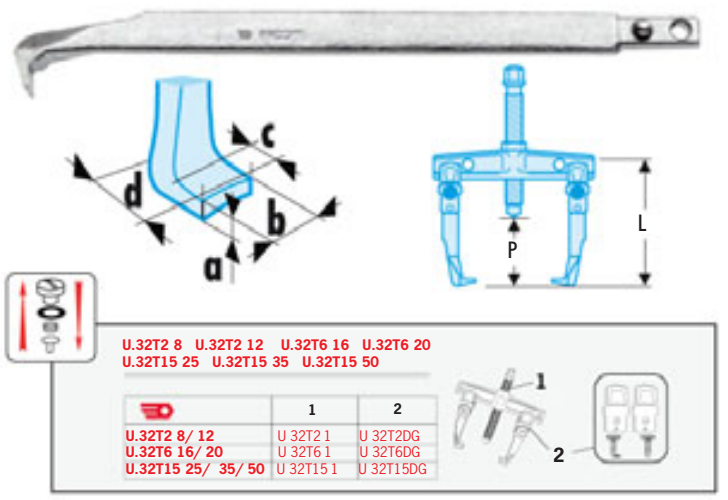
	C1 mm mini-maxi	C2 mm mini-maxi	P maxi mm	T Tonnes	T kN	Screw	⬢ mm	ΔΔ kg
U.32T2-8	20 - 80	90 - 140	85	2	20	U.32T2-1	13	1,1
U.32T2-12	20 - 120	90 - 180	85	2	20	U.32T2-1	13	1,15
U.32T6-16	20 - 160	130 - 250	140	6	60	U.32T6-1	24	3,3
U.32T6-20	20 - 200	130 - 290	140	6	60	U.32T6-1	24	3,5
U.32T15-25	25 - 250	180 - 380	170	15	150	U.32T15-1	35	9,8
U.32T15-35	25 - 350	180 - 480	270	15	150	U.32T15-1	35	13,0
U.32T15-50	25 - 500	180 - 530	270	15	150	U.32T15-1	35	15,0



U.32TGA Spare legs for U.32T

- For your safety, we recommend that all the legs are replaced in the event of a problem.
- Legs supplied individually without mounting pins.

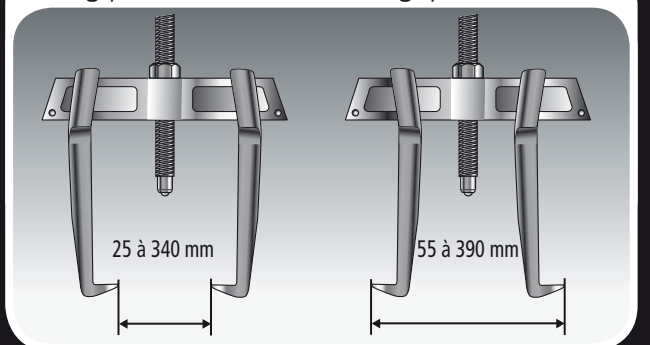
	Series U32T2	Series U32T6	Series U32T15	P mm	L mm	a mm	b mm	c mm	d mm	ΔΔ kg
U.32T2GA10	•			110	130	8,5	18,0	10	18	0,6
U.32T2GA20	•			185	225	2,5	18	10	18	0,8
U.32T2GA25	•			235	275	2,5	18	10	18	0,9
U.32T6GA15		•		150	180	4	24	15	28,5	1,4
U.32T6GA30		•		280	335	4	24	15	28,5	2,0
U.32T15GA20			•	170	250	5	34	20	36	3,4
U.32T15GA30			•	270	315	4	24	15	28,5	4,2
U.32T15GA40			•	370	445	5	34	20	36	5,0
U.32T15GA50			•	470	545	5	34	20	36	5,8



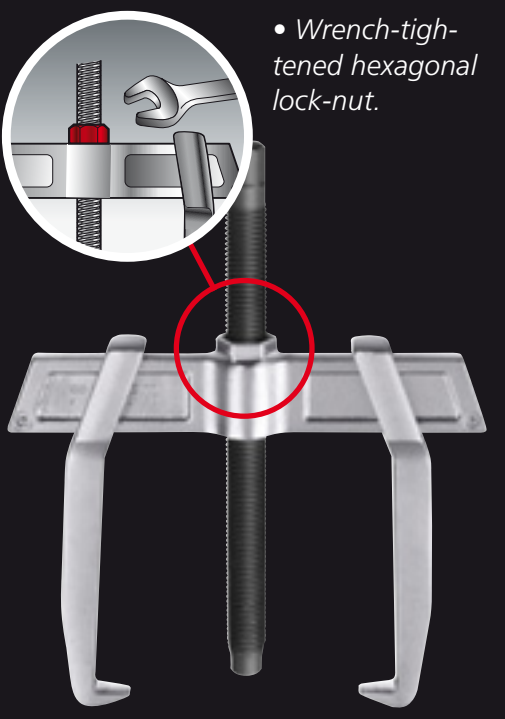
New U.232 - 2-leg puller

Strength and simplicity

2-leg puller, inside or outside grip



Anti-rotation system



- *Wrench-tightened hexagonal lock-nut.*

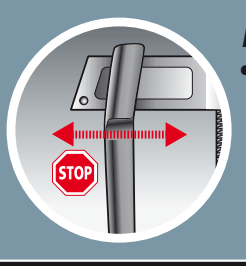
Leg reversal

- *Legs changed from inside grip to outside grip configuration simply by pressing the pin. No need for tools.*

Safety first

Leg retainer

- *A spring-loaded pin at the end of the beam prevents the legs sliding off.*



Leg locking

- *The legs are designed to cantilever during pulling, blocking them in place and preventing them sliding along the beam.*

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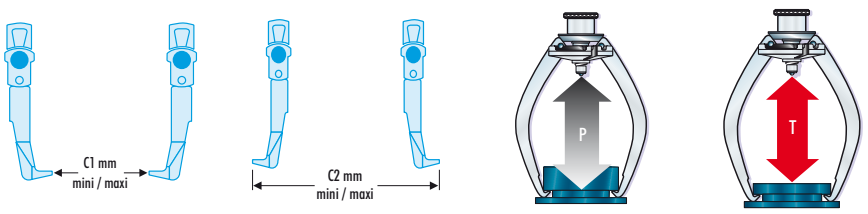
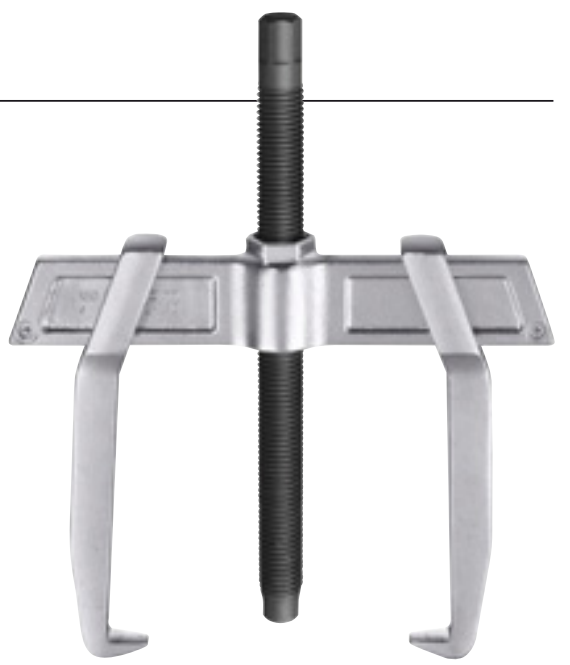
U.232 - 2-leg sliding-leg puller

	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Screw	⬢ mm	⚖ kg
U.232-65	25 - 65	65	1,5	15	U.232G1	U.35P01	13	0,4
U.232-90	30 - 90	100	3	30	U.232G2	U.35SE1	17	0,9
U.232-130	45 - 130	100	3	30	U.232G2	U.35SE1	17	1,0
U.232-160	45 - 160	145	4	40	U.232G3	U.53S2A7	16	2,8
U.232-210	45 - 210	145	4	40	U.232G3	U.53S2A7	16	3,0
U.232-270	65 - 270	190	5	50	U.232G4	U.53S3-07	21	7,5
U.232-340	65 - 340	190	5	50	U.232G4	U.53S3-07	21	8,2

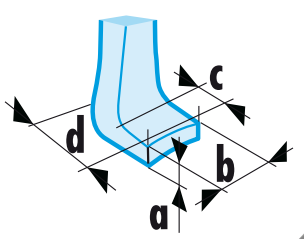


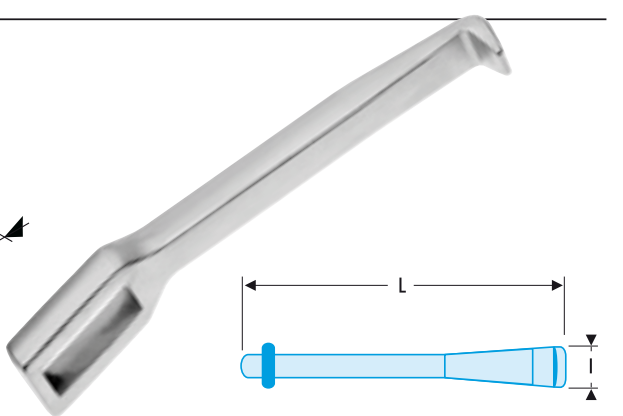


U.232G Spare legs for U.232 pullers

- For your safety, we recommend that all the legs are replaced in the event of a problem.
- Legs supplied individually.

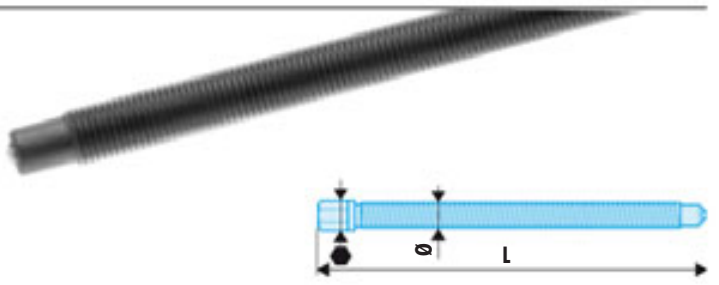
	L mm	a mm	b mm	c mm	d mm	Puller	⚖ kg
U.232G1	100	4	10	10	15	U.232-65	0,08
U.232G2	155	6	10	14	23	U.232-90 / U.232-130	0,19
U.232G3	225	8	14	21	31	U.232-160 / U.232-210	0,56
U.232G4	303	12	17	25	43	U.232-270 / U.232-340	1,57





U.232V Spare screws for U.232 pullers

• Screws supplied singly.



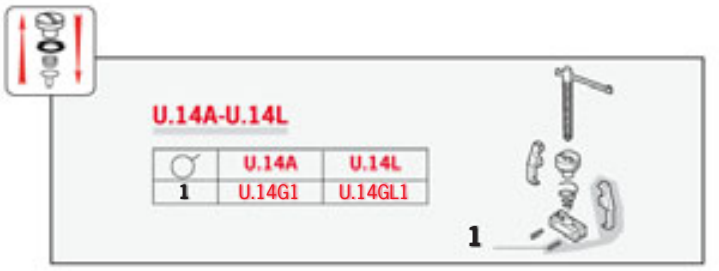
	Ø mm	L mm	⬣ mm	Puller	ΔΔ kg
U.35P01	M12	133	13	U.232-65	0,08
U.35SE1	M16	180	17	U.232-90 / U.232-130	0,20
U.53S2A7	M20	283	16	U.232-160 / U.232-210	0,47
U.53S3-07	M27	344	21	U.232-270 / U.232-340	1,28

Slim 2-leg pullers

U.14 Self-gripping slim 2-leg pullers

• Spring loaded, self-gripping 2-leg puller.
Can be used for disconnecting battery terminals.

	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Dimensions mm	ΔΔ kg
U.14A	10 - 35	40	0,5	5	70 x 112 x 35	0,31
U.14L	10 - 45	60	0,5	5	85 x 150 x 38	0,36



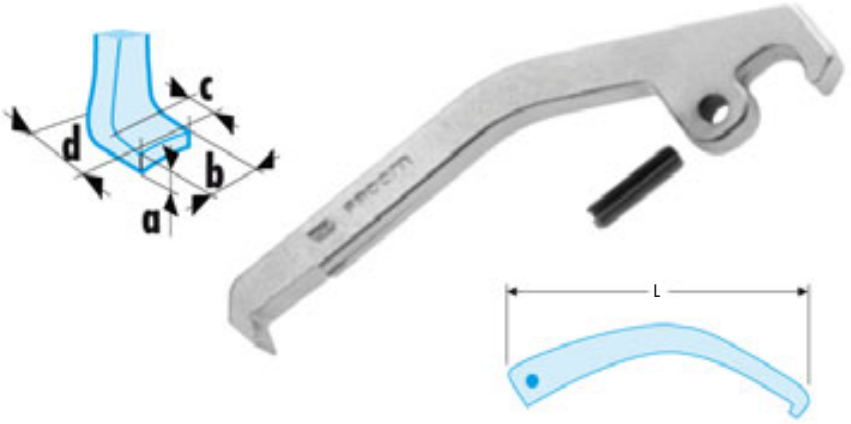
U.301 Self-gripping 2 slim-leg puller

• Spread : 80, 150 and 200 mm.
• Can be used with slide hammer U.49AM using adaptor U.301E1 (U.301 and U.301-150) or adaptor U.301E2 (U.301-200).

	Screw	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	⬣ mm	ΔΔ kg
U.301	U.301-04	10 - 80	90	0,9	9	U.301G	10	0,46
U.301-150	U.301-04-150	10 - 150	150	0,9	9	U.301G150	10	0,67
U.301-200	U.301-04-200	10 - 200	200	1,3	13	U.301G200	13	1,10

Spare legs for puller U.302

• For your safety, we recommend that all the legs are replaced in the event of a problem.
• Legs supplied individually.



	L mm	a mm	b mm	c mm	d mm	Puller	ΔΔ kg
U.301G	130	5	8	7	16	U.302	0,60
U.301G-150	205	6	8	7	17	U.302-150	0,84
U.301G-200	270	6	8	7	18	U.302-200	0,40

Wide 2-leg pullers

New **U.301 L/M/P - Wide 2-leg puller**

A COMPACT PULLER WITH TWO "WRAP AROUND" LEGS FOR A BETTER GRIP

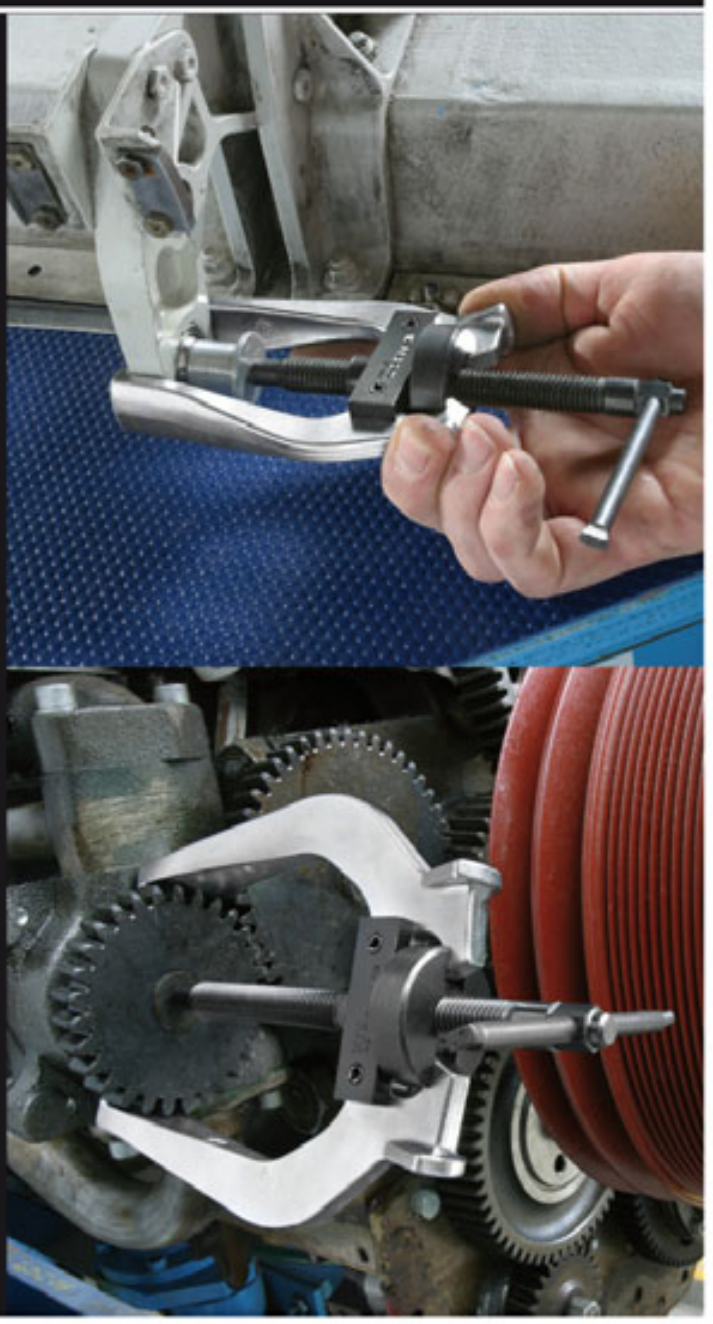
Effective and easy to use

• *Self-gripping, self-centring "body and spring" system.*

1/ Force- limiting safety rod.
2/ Ergonomic finger grips allowing one-handed installation
3/ Shear pin.
4/ "Wrap-around" legs to grip the part firmly without scratching
5/ "Positive" leg angle for optimum grip even under maximum pulling force. Spread : 50, 100 and 110 mm.

Safety first

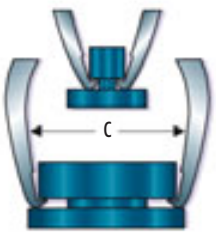
• *The rod (1), then the shear pin (3) fail in stages before the yield point of the legs is reached.*



U.301 Self-gripping wide 2-leg puller

• Spread : 50 mm, 100 mm and 110 mm.
• Can be used with slide hammer U.49AM using adaptor U.301E1 (U.301P and U.301M) or adaptor U.301E2 (U.301L).
• Load limiter collapses under excessive applied force.

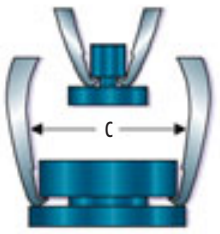
	C min - max mm	P mm	⚖ g
U.301P	15 - 50	70	540
U.301M	15 - 100	100	800
U.301L	15 - 110	130	930

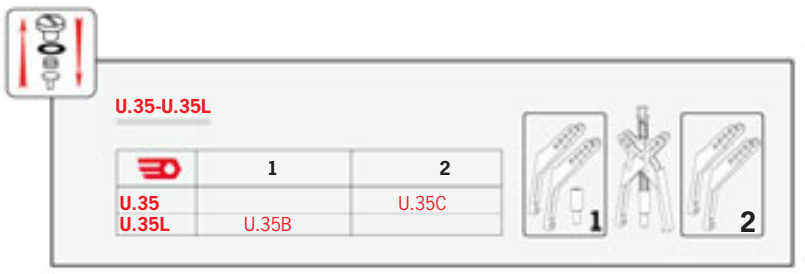


U.35 Wide 2-leg pullers

- For removing bearings, sprockets and flywheels.
- "Cross-legged" configuration recommended.
- Optional "uncrossed-legged" configuration doubles capacity.
- Puller accessories (sold separately) : slide hammer U.306M for U.35 and U.35L

	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Screw	Ø mm	L mm	⬣ mm	⚖ kg
U.35P	10 - 55	75	1	10	U.35P01	M12	133	13	0,39
U.35	15 - 75	90	4	40	U.35SE1	M16	180	17	0,99
U.35L	15 - 75	130	3	30	U.35SE1 + U.35SE3	M16	180	17	1,22





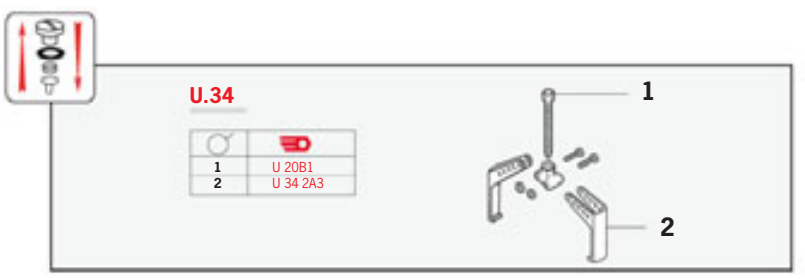
Heavy-duty 2-leg pullers

U.34

- Spread : Ø 40 mm to Ø 180 mm.
- Reach : 245 mm.
- Maximum pulling force : 7 tonnes, 70 kN.
- Puller accessory (supplied separately) : slide hammer U.2.

⚖ : 4.4 kg.

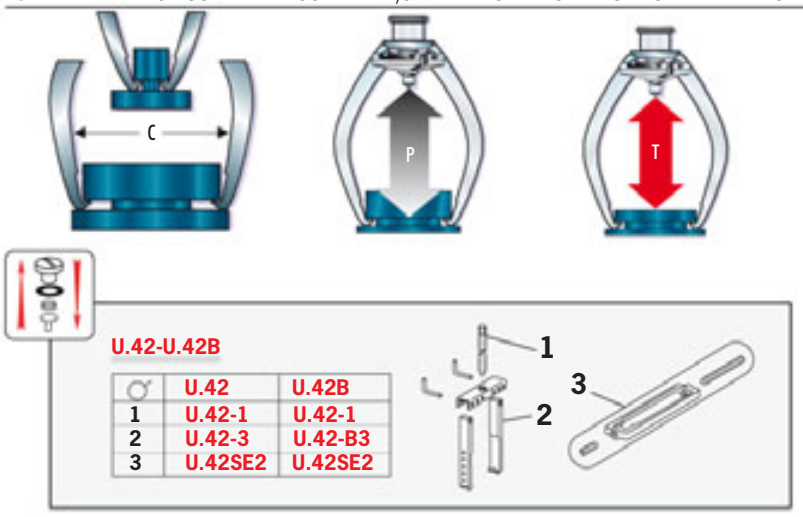
	Screw	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Small legs	Large legs	⬣ mm	⚖ kg
U.34	U.20B1	40 - 180	245	7	70	U.34-2B3	U.34-2A3	24	4,4



U.42 Pullers with yokes

- Model U.42B has special-purpose legs for gearbox bearings.
- Spare yoke for U.42 and U.42B : U.42SE2.

	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Screw	⬣ mm	⚖ kg
U.42	10 - 85	120	1,5	15	U.42-3	U.42-1	13	1,3
U.42B	10 - 85	180	1,5	15	U.42B3	U.42-1	13	1,6



	U.42	U.42B
1	U.42-1	U.42-1
2	U.42-3	U.42-B3
3	U.42SE2	U.42SE2

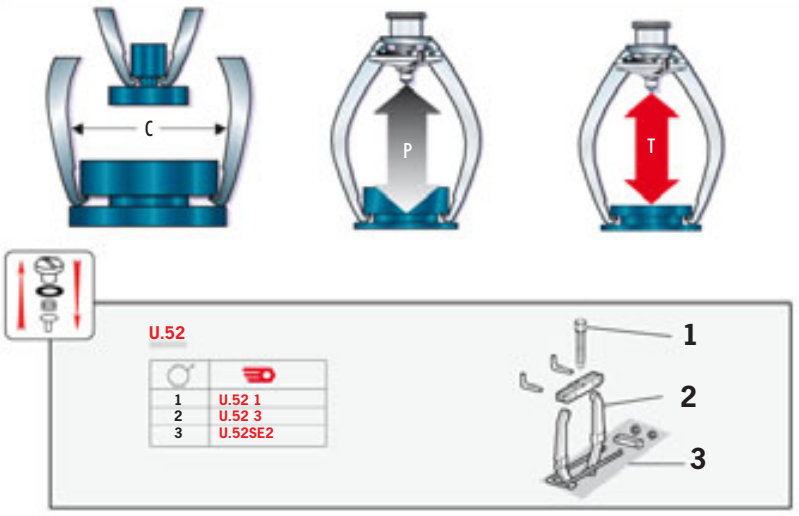
Puller with yoke

U.52

- Spare yoke for U.52 : U.52SE2.

⚖ : 1,68 kg.

	C mini - maxi mm	P maxi mm	T Tonnes	T kN	Legs	Screw	⬣ mm	⚖ kg
U.52	10-150	160	6	60	U.52-3	U.52-1	17	1,7



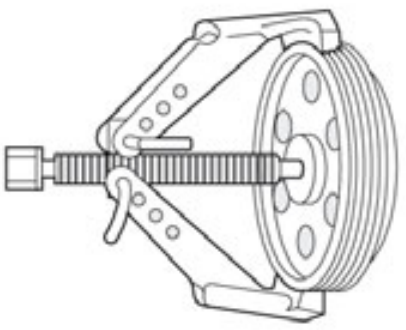
1	U.52 1
2	U.52 3
3	U.52SE2

Pulley puller

DM.31

- For removing crankshaft pulley by gripping the pulley grooves.
- Pulley capacity : ∅ 130 to 156 mm.

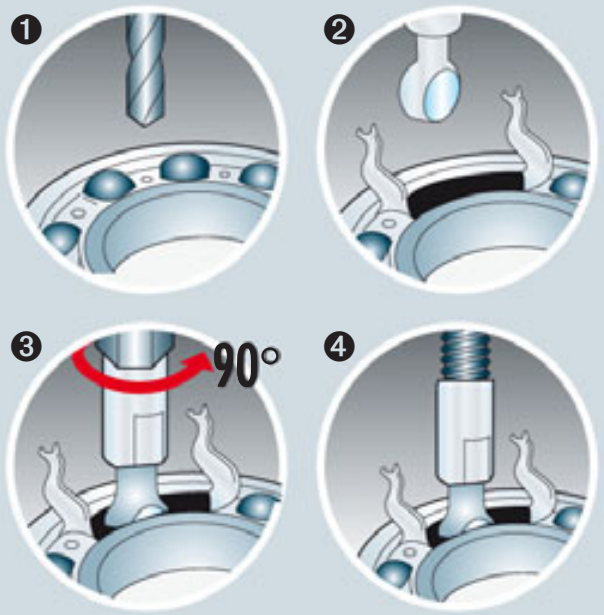
⚖ : 1.05 kg.



Tip-type pullers, cage grip

U.23 - Tip type pullers, cage grip

- *The design of this puller is particularly suited to cage-type ball bearings.*
- *Pressure is distributed over the two races and the tool can be used for both shaft and housing fits.*
- *Depending on the ball diameter, different pairs of spherical tips should be selected from one of three sets available.*



Positioning tips in bearings

Drill 2 diametrically opposed holes.
Bend back cage ends.
Insert appropriately sized tips into race. Turn through 90 degrees to lock.
Screw beam rods into tips.

Micro-engineering puller kit

U.23J1A

- Comprising :
- 3 pairs of tipsØ 5.5 - 6 - 7.5 mm.
- Beam U.23K1A.
- Spread : Ø 25 mm to Ø 95 mm.
- For ISO bearings : 6004 to 6010, 6200 to 6205, 6300 to 6302.
- Supplied in plastic case BP 102 and tray PL.392A.

⚖ : 800 g.

Light engineering puller kit

U.23J2

- Comprising :
- 3 pairs of tips Ø 9 - 11 - 12.5 mm
- Beam U.53K1.
- Spread : Ø 40 mm to 110 mm.
- For ISO bearings : 6206 to 6211, 6303 to 6307, 6403 to 6404.
- Supplied in plastic case BP.115 and tray PL.71A.

⚖ : 1.84 kg.

General engineering puller kit

U.23J3

- Comprising :
- 6 pairs of tips Ø 16 - 19 - 22 - 25 - 28 - 32 mm
- Beam U.53K2.
- Spread : Ø 70 mm to 190 mm.
- For ISO bearings : 6212 to 6222, 6308 to 6319, 6405 to 6414.
- Supplied in plastic case BP.109 and tray PL.104A.

⚖ : 7.3 kg.

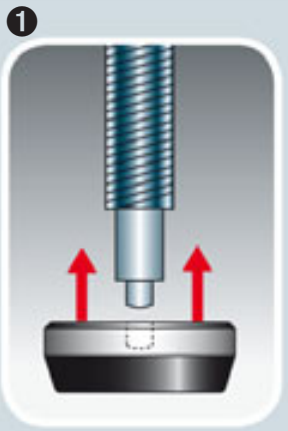
U.23D Pair of tips

	N° tip	Tapping	Ø mm	⚖ g
U.23D5	1	M6	5,5	26
U.23D6	2	M6	6,0	27
U.23D8	3	M6	7,5	30
U.23D9	4	10	9,0	39
U.23D11	5	10	11,0	44
U.23D12	6	10	12,5	45

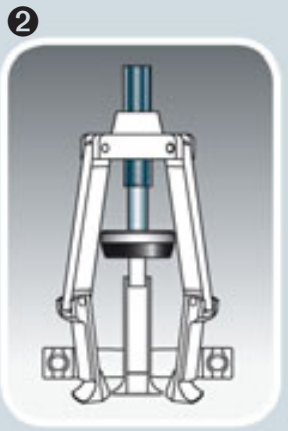
	N° tip	Tapping	Ø mm	⚖ g
U.23D16	7	M16	16,0	125
U.23D19	8	M16	19,0	275
U.23D22	9	M16	22,0	315
U.23D25	10	M16	25,0	487
U.23D28	11	M16	28,0	525
U.23D32	12	M16	32,0	669

Tip-type pullers, inside grip

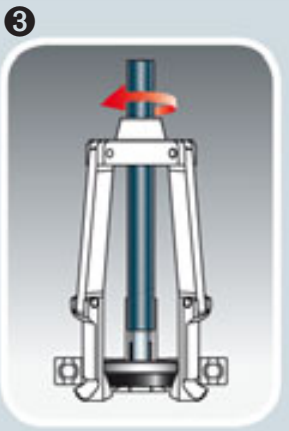
U.51B - Tip-type puller, inside grip



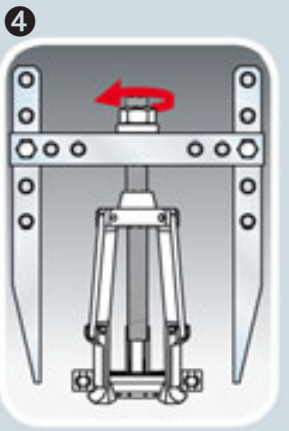
• *Locate the spreader at end of screw.*



• *Insert claw ends through bearing.*



• *Screw claws tight against bearing.*



• *Fit beam and screw down nut to withdraw bearing.*

Inside grip puller

U.51B

• Spread : Ø 32 mm to 70 mm.
• Puller accessories : beam U.40 or U.30.
• Complete with 15 spreaders.
• Supplied in plastic case BP 109 and tray PL.710.
⚖ : 3.4 kg.

Inside grip puller

U.28

• Spread : Ø 70 mm to 160 mm.
• Spreader application sizes :
- spreader U.28-8 : 70-100 mm
- spreader U.28-9 : 100 - 136 mm
- spreader U.28-10 : 130-160 mm.
• Puller accessories : slide hammer U.2, beam U.40 or U.30.
⚖ : 3.3 kg.

Beam for pullers U.28 and U.51B

U.30

• For pullers U.28 and U.51B
⚖ : 4.64 kg.

Inside grip puller and beam kit

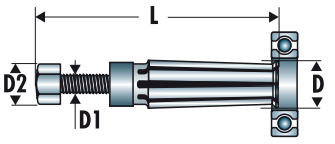
U.28J1

• Comprising :
- 1 puller U.28
- 1 beam U.30.
• Spread : Ø 70 mm to 160 mm.
• Supplied in steel case BT.111 (396 x 224 x 82 mm) + tray PL.168.
⚖ : 9.5 kg.

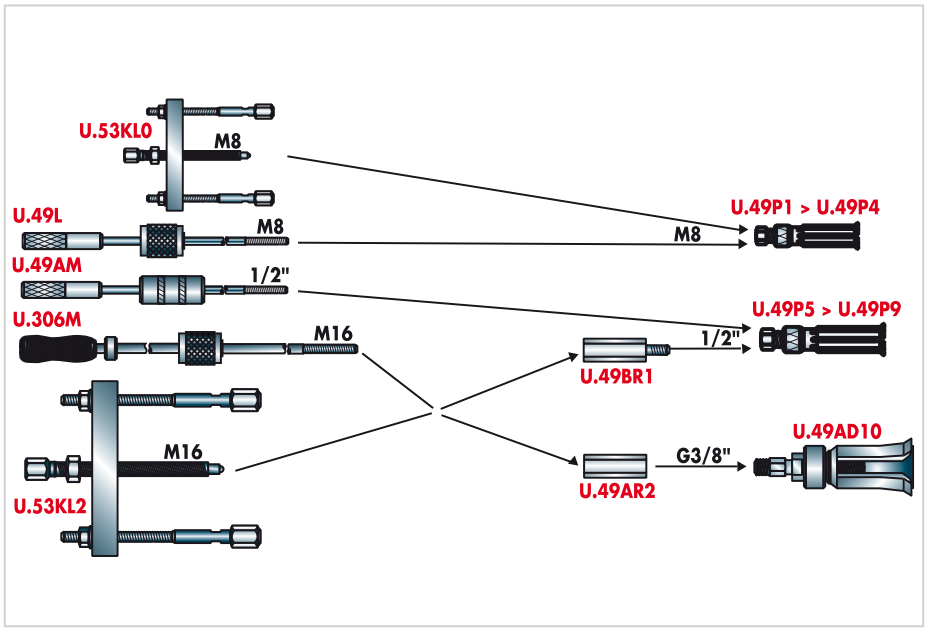
Expansion-type pullers, inside grip

U.49P inside grip expansion pullers

- More impact-resistant and durable.
- Multiple blades, more flexible and less prone to deformation.
- Easier to use.
- Increased spread.



	D mm (mini)	D mm (maxi)	L mm maxi	D2 mm	D1 mm	kg
U.49P1	6,5	8	76	12	M8	0,028
U.49P2	8,5	10	76	12	M8	0,030
U.49P3	10,5	13	88	12	M8	0,042
U.49P4	13	18	100	12	M8	0,068
U.49P5	18	22,5	112	17	1/2"	0,142
U.49P6	22,5	30	139	17	1/2"	0,298
U.49P7	30	38	158	22	1/2"	0,546
U.49P8	38	50	190	1-1/4"	1/2"	1,216
U.49P9	50	60	190	1-1/4"	1/2"	1,424
U.49AD10	70	110	169	10	G 3/8	1,600



Maintenance puller kit

U.49PJ1

- For bearings ∅ 8 to 38 mm.
- Comprising :

- Set of 6 expansion pullers U.49P2 to U.49P7.
- 2 beams U.53KL0 and U.53KL2.
- Adaptor U.49BR1.

- Supplied in a plastic case with tray PL.711.

	Dimensions mm	kg
U.49PJ1	480 x 240 x 75	3,5

Light-engineering puller kit

U.49PJ2

- For bearings ∅ 18 to 50 mm.
- Comprising :

- 4 expansion pullers U.49P5 to U.49P8.
- 1 slide hammer U.49AM.

- Supplied in plastic case BP.109 and tray PL.712.

	Dimensions mm	kg
U.49PJ2	480 x 240 x 75	5,0

Light-engineering puller kit

U.49PJ3

- For bearings ∅ 6 to 18 mm.
- Comprising :

- 4 expansion pullers U.49P1 to U.49P4.
- 1 slide hammer U.49L.

- Supplied in plastic case BP.109 and tray PL.445.

	Dimensions mm	kg
U.49PJ3	330 x 140 x 75	1,4

Heavy-duty puller set

U.49PJ4

- For bearings ∅ 30 to 60 mm.
- Comprising :

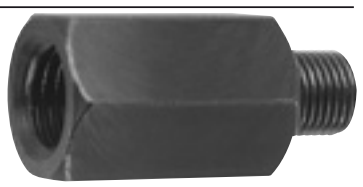
- 3 expansion pullers U.49P7 to U.49P9.
- 1 beam U.53KL2.
- Adaptor U.49BR1.

- Supplied in plastic case BP 109 and tray PL.713.

	Dimensions mm	kg
U.49PJ4	480 x 240 x 75	5,3

Adapter U.49P

U.49BR1



- Female thread : M16 X 200.
- Male thread : 1/2".

	∅ mm	g
U.49BR1	16 1/2"	101

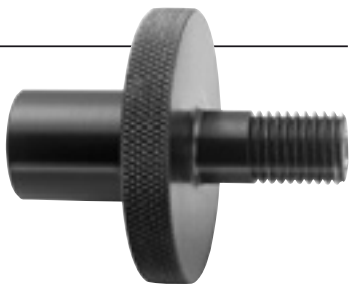
Adapter U.49AD10

U.49AR2

- Female threaded adaptors to fit expansion puller U.49AD10 to slide hammers and centre beam screws.
- Female thread M16x200 and G3/8".
- Length : 75 mm.

	∅ mm	g
U.49AR2	16 - G3/8"	108

Adaptors for attaching U.301 / U.302 to U.49AM



- U.301E1 adaptor for puller U.301, U.302, U.301-150, U.302-150.
- U.302E2 adaptor for puller U.301-200 and U.302-200.
- Locks the legs in position for pulling.

	g
U.301E1	233
U.301E2	320

Slide hammer

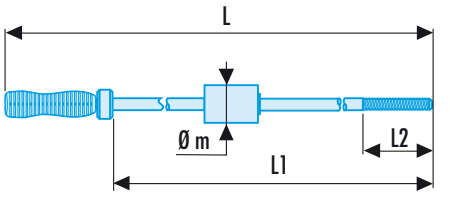
U.306M

- Fits pullers type U.306, U.42, U.42B, U.32T2-8, U.32T2-12, U.35, U.35L.
- Puller accessories : (supplied separately).

- Expansion pullers U.49P5 to U.49P9 with adaptor U.49BR1.
- Expansion puller U.49AD10 with adaptor U.49AR2.
- Male adaptors U.53E4 to U.53E14 with female adaptor U.53H2.

⚖ : 2.7 kg.

	L mm	L1 mm	L2 mm	Ø weight mm	Thread
U.306M	660	530	210	60	M16



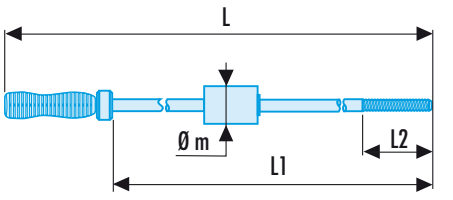
Slide hammer

U.49L

- For use with light duty expansion pullers U.49P1 to U.49P4.
- For bearing inner Ø 6 to 18 mm.
- Weight 200 g. Length : 300 mm

⚖ : 430 g.

	L mm	L1 mm	L2 mm	Ø weight mm	Thread
U.49L	300	210	15	30	M8



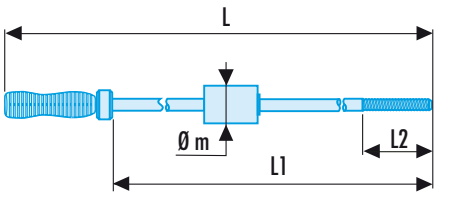
Slide hammer

U.49AM

- For use with expansion pullers U.49P5 to U.49P9.
- For bearing inner Ø 18 to 60 mm.
- Can be used with male adaptors U.53E4 to U.53E14 with female adaptor U.53H3.
- Weight 1 kg. Length : 450 mm.

⚖ : 1.6 kg.

	L mm	L1 mm	L2 mm	Ø weight mm	Thread
U.49AM	450	320	20	45	1/2"



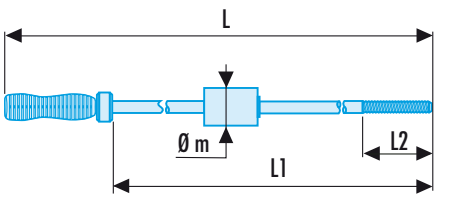
Slide hammer

U.2

- Thread M 22 x 200.
- Length : 760 mm.
- For use with U.20, U.20B, U.310, U.32T6-16, U.32T6-20, U.28 and plate assembly U.9.

⚖ : 8 kg.

	L mm	L1 mm	L2 mm	Ø weight mm	Thread
U.2	760	600	70	91 / 170	M22



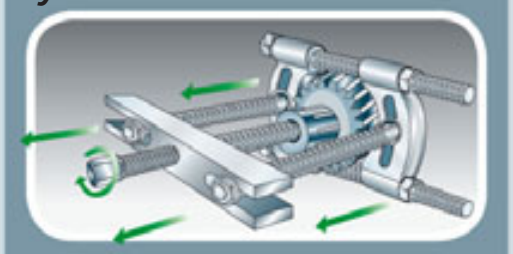
Puller kits

U.53 - Separators, flush grip

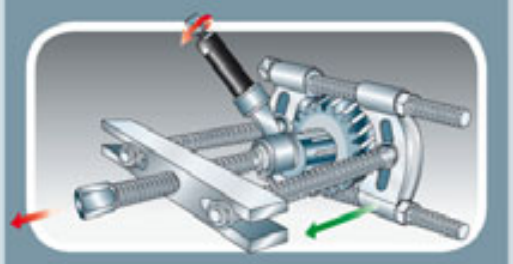
Bearing separators U.53T fit behind races where ordinary puller claws will not reach.

- *The wedge-shaped jaws bear against the back of the fitting, pushing it out as they close.*
- *Separators can be used with beams for mechanical screws or with beams designed specifically for use with hand-operated hydraulically-assisted jacks.*

Separator and beam with hand-operated hydraulic system.



Separator and beam with mechanical screw.



- *Beam used with hydraulic press U.33A.*
- *Only to be used with beams U.53K4 and U.53S4A.*

Safety first

- Only hand-operated hydraulic systems are to be used in conjunction with separator and beam combinations.

60 mm separator and beam puller kit

U.53J1

- Comprising :
- 1 separator U.53T1, capacity = ∅ 5 to 60 mm.
- 1 beam puller U.53K1, spread = ∅ 40 to 110 mm.
- Max. reach : 180 mm.
- 8 sets of male adaptors U.53E M4 - M5 - M6 - M8.
- 2 female adaptors U.53H1.
- Supplied in a plastic case BP.112 and tray PL.296A.

⚖ : 3.4 kg.

110 mm separator and beam puller kit

U.53J2

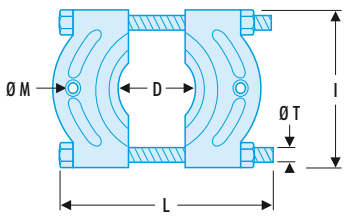
- Comprising :
- 1 separator U.53T2, capacity = ∅ 15 to 110 mm.
- 1 beam puller U.53K2, spread = ∅ 70 to 200 mm.
- Max. reach : 240 mm.
- 8 sets of male adaptors U.53E M8-M10-M12-M14.
- 2 female adaptors U.53H2.
- Supplied in plastic case BP.109 and tray PL.297A.

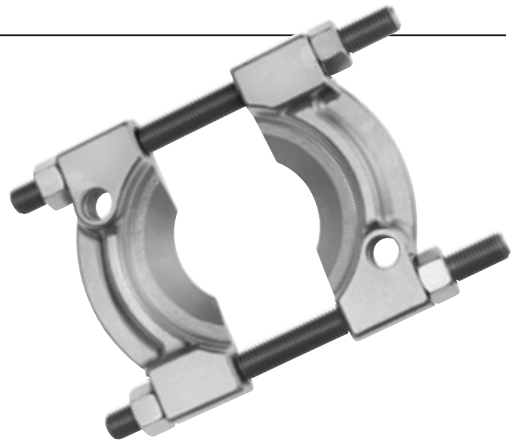
⚖ : 7.3 kg.

Separators

U.53T Separators

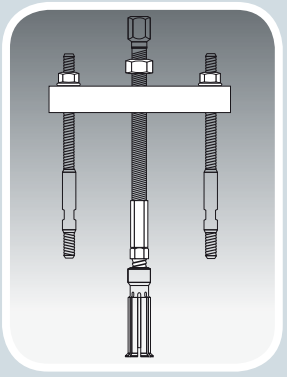
	D mini - maxi mm	L mm	l mm	Ø T mm	Ø M mm	For		⚖ kg
U.53T1	5-60	140	91	M12	M10	U.53K1	-	0,6
U.53T2	15-110	215	153	M16	M16	U.53K2	U.53S2A	2,3
U.53T3	15-150	290	204	M20	M20	U.53K3	-	5,1
U.53T4	20-180	360	289	M22	M22	U.53K4	U.53S4A	8,8
U.53T5	25-250	430	316	M22	M22	U.53K4	U.53S4A	11,3



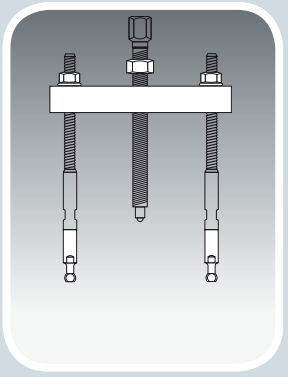


U.23/U.53 - Beam pullers

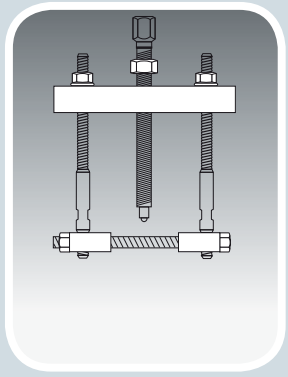
Beams can be used with different types of puller :



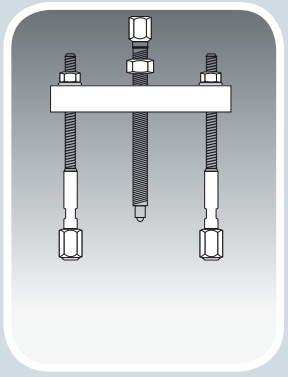
• *Expansion bearing puller U.49P.*



• *Spherical or threaded tip pullers U.23.*



• *Separator U.53*



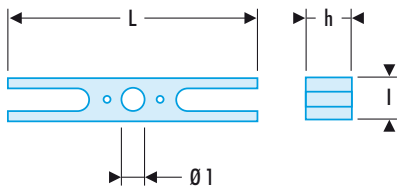
• *Extraction via beam alone.*

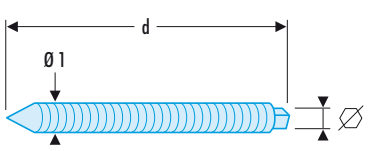
Beams

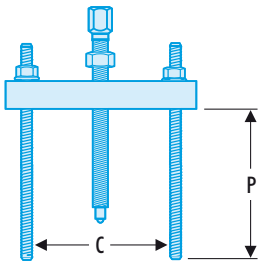
U.23K, U.53K tapped beams

• Tapped beams, spread Ø 25 mm to 400 mm.
• For use with separators and spherical or threaded tips.

	C mm	P mm	L mm	l mm	h mm	d mm	Ø1	⬢ mm	⚖ kg
U.23K1A	25-95	100	105	20	20	155	M10	8	0,4
U.53K1	40-110	180	135	25	25	217	M16	11	0,4
U.53K2	70-200	240	220	30	30	283	M16	11	0,84
U.53K3	75-280	300	320	45	35	283	M20	16	2,4
U.53K4	145-400	350	450	50	50	343	M27	21	5,5



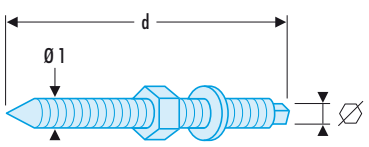


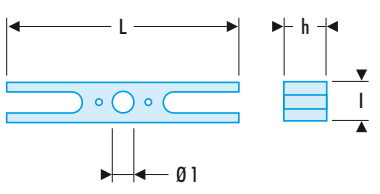


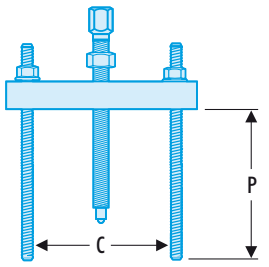
U.53KL Non-tapped beams

• For removing bearings with expansion pullers U.49P1 to U.49P9 and U.49AD10
• U.53KL0 :
- for expansion pullers U.49P1 to U.49P4.
• U.53KL2 :
- for expansion pullers U.49P5 to U.49P9 using adaptor U.49BR1.
- for expansion pullers U.49AD10 using adaptor U.49AR2.

	C mm	P mm	L mm	l mm	h mm	d mm	Ø1	⬣ mm	⚖ g
U.53KL0	25-100	125	110	20	20	8,5	M8	6	405
U.53KL2	70 - 200	240	220	30	30	283	M16	11	840



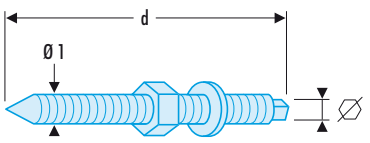


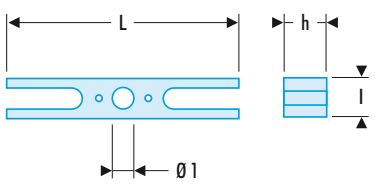


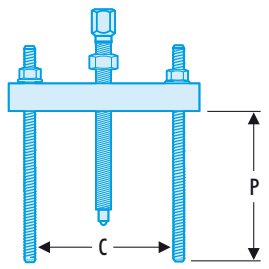
U.53S Beams for use with jacks

• These 2 non-tapped beams have higher mechanical strength than U.53K versions (size, steel grades and heat treatment) , to withstand greater stresses generated by hydraulics.

	Force kN	C mm	L mm	l mm	h mm	d mm	Ø1	⚖ kg
U.53S	100	120 - 200	283	35	35	280	M20	0,47
U.53S4A	300	170 - 400	450	60	60	420	M33	8,500



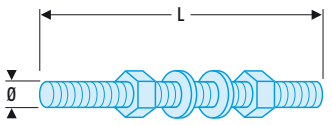




U.53RL Spare tie-rods for beams

• Tie-rods supplied individually, to be ordered in pairs.

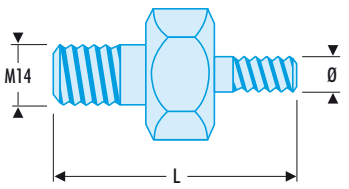
	Ø	For	L mm
U.53R1L	M10	U.53K1	205
U.53R2L	M16	U.53K2, U.53KL2	275
U.53R3L	M20	U.53K3	350
U.53R4LA	M22	U.53K4, U.53S4A	420



Beam puller accessories

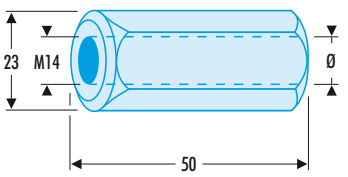
U.53E Male adaptors

	Ø mm	L mm	⚖ g
U.53E4	4	33,5	50
U.53E5	5	35,5	50
U.53E6	6	36,5	50
U.53E8	8	39,5	50
U.53E10	10	42,5	55
U.53E12	12	46,5	60
U.53E14	14	48,5	70



U.53H Female adaptors to fit male adaptors

	Ø mm	⚖ g
U.53H1	10	130
U.53H2	16	110
U.53H3	1/2"	120

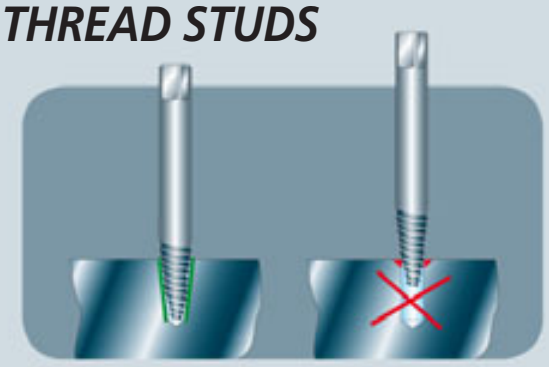


Stud extractors

285 - Stud extractors

FOR REMOVING SHEARED RIGHT-HAND THREAD STUDS

- *285 stud extractors are designed exclusively for use on right-hand thread studs (99 % of cases).*
- *The extractors' tapered shape requires the use of cone bits. Using traditional cylindrical bits reduces the contact surface between the extractor and the stud, greatly increasing the risk of the extractor breaking in the stud.*



- *Choose the extractor and corresponding drill bit according to the diameter of the stud to be removed.*

- *Drill with a a 285.F cone bit.*

- *Push in then unscrew using the corresponding stud extractor.*

- *The stud is removed*

285.J Set of right-hand thread stud extractors

- 285.J10 : Set of 5 stud extractors, 5 cone bits and a tap wench 831.1 (for use with the 4 smaller extractors only).
- Supplied in a plastic case BP.102 (204 x 122 x 52 mm). Tray PL.464.
- 285.JS10 : Set of 5 stud extractors and 5 cone bits on a stand.
- 285.JS5 : Set of 5 stud extractors on a stand.

285.J10

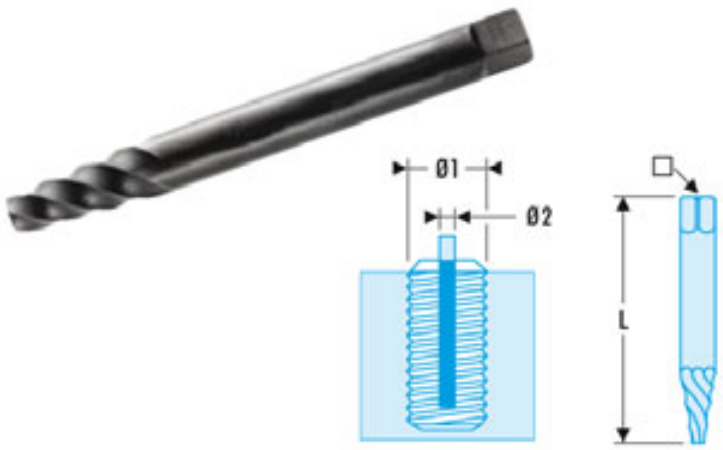
285.JS5

285.JS10

	Ø mini - maxi mm	mm	Storage	N° 285	N° 285F	g
285.J10	3 - 18	204 x 122 x 52	BP.102 + PL.464	4, 5, 6, 8, 11	F1, F2, F3, F4, F5	470
285.JS10	3 -18	100 x 90 x 25	CKS.25A x 2	4, 5, 6, 8, 11	F1, F2, F3, F4, F5	290
285.JS5	3 -18	100 x 90 x 25	CKS.25A	4, 5, 6, 8, 11	-	150

285 Single right-hand thread stud extractors

- Helical extractors for removing sheared studs after drilling down the centre with bits 285.F.



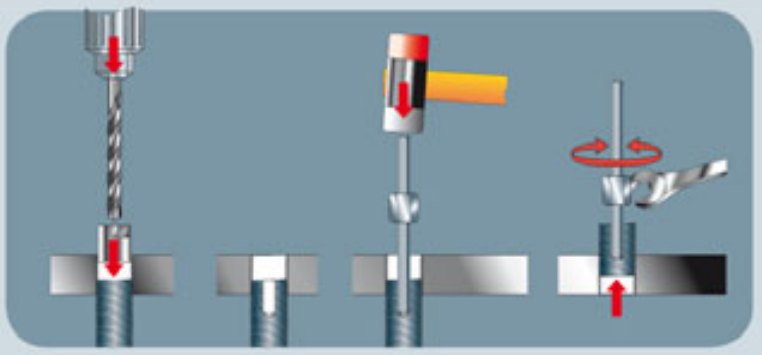
	Ø 1 mini - maxi mm	Ø 2 mini - maxi mm	Cone bits 285.F	L mm	⍁ mm	g
285.4	3 - 6	2,2 - 3,4	285.F1	55	3,0	5
285.5	6 - 8	3,7 - 4,3	285.F2	60	4,0	8
285.6	8 - 11	4,5 - 5,3	285.F3	65	4,5	12
285.8	11 - 14	6,2 - 7,1	285.F4	75	6,0	25
285.11	14 - 18	8,6 - 9,8	285.F5	85	8,5	52
285.14	18 - 24	11 - 12,5	-	90	10,0	86
285.18	24 - 33	14,5 - 16	-	105	14,0	166
285.25	33 - 50	20 - 22,5	-	120	18,0	348

285.F Single cone bits for extractors 285

	For extractor 285	Length mm	Ø mm	g
285.F1	285.4	57	3,5	5
285.F2	285.5	63	4	6
285.F3	285.6	67	5,5	11
285.F4	285.8	80	7,5	23
285.F5	285.11	86	10	43

885 - Stud extractor

FOR REMOVING SHEARED RIGHT-HAND, OR LEFT-HAND THREAD STUDS



- *885 stud extractors are designed exclusively for use on right-hand or left-hand thread.*
- *The splined rod has a cylindrical shape and can be drilled using standard (cylindrical) drill bits.*

- *Choose the extractor and corresponding drill bit according to the diameter of the stud to be removed.*

- *Drill with a standard 222A.T bit. Insert the splined bit using a mallet 216.40.*

- *Install the hexagonal shoulder. Loosen with a wrench.*

- *The stud is removed*

Set of right-hand or left-hand thread stud extractors

885

- Extraction by pre-drilling and inserting a splined bit driven via its hexagon shoulder.
- Stud ∅ 6 mm to ∅ 14 mm.
- Right or left-hand thread.
- Supplied in a case 165 x 130 x 25 mm.

⚖ : 540 g.

Components for 885 set

885.F : Drill bits.

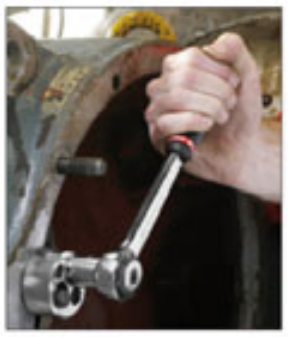
885.EH : Extractors.

	Length mm	∅ "	mm	⚖ g
885.F1	65	1/8	3,17	3
885.F2	85	3/16	4,76	8
885.F3	100	1/4	6,35	17
885.F4	115	5/16	7,94	30
885.F5	120	11/32	8,73	40
885.EH1		1/4	6	13
885.EH2		5/16	8	20
885.EH3		3/8	10	33
885.EH4		7/16	12	46
885.EH5		1/2	14	60

Stud drivers

286A Knurl-type stud drivers - Multi-diameter

- Select the right hole for the stud diameter.
- Tighten or loosen : the offset knurl grips the stud, allowing it to be tightened or loosened.

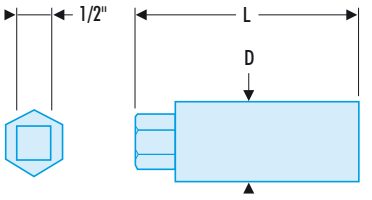


	Capacity ∅ mm	Dimensions mm	"	☐ mm	⚖ g
286A	5 - 20	52 x 54	1/2	12,7	400
286A.PL	15 - 27	72 x 66	3/4	19,05	950

	Description
286A.M	Spare knurled wheel for 286A

287B Roller-type stud drivers - Single-diameter

• Capacity : ∅ 6 mm > ∅ 16 mm.
• Turned by means of the hexagonal drive or a ☐ 1/2" - 12.7 mm ratchet.
Except model 287B.16, which has a through-hole for a bar.
• For tightening or loosening studs.



	Capacity mm	D x L mm	⬡ mm	⚖ g
287B.6	6	25 x 65	22	167
287B.7	7	25 x 65	22	166
287B.8	8	25 x 65	22	168
287B.9	9	29 x 75	22	246
287B.10	10	29 x 75	22	242
287B.12	12	29 x 75	22	241
287B.14	14	34 x 75	27	308
287B.16	16	34 x 75	27	340

Set of roller-type stud drivers

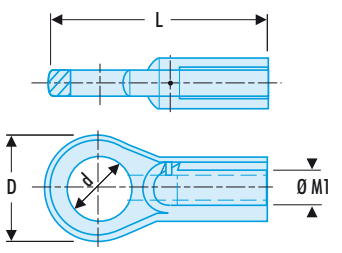
287B.JS5

• 5 stud drivers for sizes M6, M7, M8, M9 and M10 (287B.6 to 287B.10).
• Supplied in a rack (CKS.73A).
• Dimensions : 155 x 175 x 35 mm.
⚖ : 1.12 kg.

Nut splitter

289 Nut splitters

• For splitting a worn or jammed nut without damaging the screw thread.



	↕ mini - maxi mm	Ø M1 mm	⬡ mm	d mm	D mm	L mm	⚖ kg
289.19	2 - 8	14 x 150	4 - 13	19	31	92	0,267
289.30	10 - 16	14 x 150	17 - 24	30	50	104	0,310
289.36	18 - 20	20 x 150	24 - 30	36	62	156	1,165
289.54	20 - 30	27 x 300	30 - 30	50	90	198	2

	Description
289.V1	Spare screw for 289.19 and 289.30
289.V2	Spare screw for 289.36
289.V3	Spare screw for 289.54

Set of 2 nut-splitters for sizes M2 to M8 and M10 to M16

289

• Comprising :
- body 289.19.
- body 289-30.
- screw 289.V1.
• Supplied in a plastic tray (PL.173) = 155 x 75 x 35 mm.
⚖ : 871 g.

13. Lighting

Selection guide – IP rating 558

Hands free working 559

Head lamp 559

Pocket lamp 560

Inspection 562

LED inspection lamp 562

Pen light 563

General lighting 564

Inspection lamps 564

847 Lighting standards

Selection guide

LIGHTING : THE KEY TO SAFE AND ACCURATE WORK

Comfort and Efficiency

- *It is essential to use light suitable for the application to avoid tired eyes and accidents at work.*
- *Engineering or maintenance tasks require an illumination of 300 to 500 lux.*
- *Inspection, finishing and painting tasks require an illumination of 750 to 1,000 lux.*
- *The light source must be designed and arranged to avoid uncomfortable glare.*

There are a number of lighting technologies to choose from :

TECHNOLOGY	ADVANTAGES	DISADVANTAGES	LIGHTING POWER	FACOM OFFER
Incandescent lamps	Low cost	Poor impact resistance Very high temperature, risk of burns, fire and explosion	200 to 1,000 lux	
Fluorescent and compact fluorescent lamps	Diffuse lighting, low temperature, low consumption	Average impact resistance	300 to 400 lux	777 range
Leds	Very good impact resistance, low temperature, very low consumption, long operating life	Cost, concentrated light beam	300 to 1,000 lux	779 range

Safety

For your safety, the supply voltage of inspection lamps used for working inside the body of a vehicle must not exceed 50 V.

24 V IP 55 INSPECTION LAMP

IP 64 INSPECTION LAMP

IP rating : What does it mean ? *(e.g. for a 4.5 V IP 64 inspection lamp)*

1st figure (e.g. : IP 64) : Protection of live components against ingress of solid objects		2nd figure (e.g. : IP 64) : Protection of live components against ingress of liquid	
0	*No protection*	*0*	*No protection*
1	*Solid objects greater than 50 mm diameter cannot penetrate*	*1*	*Vertically falling drops of water*
2	*Solid objects greater than 12 mm diameter cannot penetrate*	*2*	*Water dripping on the enclosure tilted at 15° from its normal position*
3	*A steel wire of 2.5 mm diameter cannot penetrate*	*3*	*Spraying water at an angle of up to 60° from the vertical*
4	*A steel wire of 1 mm diameter cannot penetrate*	***4***	*Splashing water against the enclosure from any direction*
5	*Invisible amount of talcum powder deposited when tested in a dust chamber*	*5*	*Water projected in jets (6.3 mm) against the enclosure from any direction*
6	*No talcum powder deposited when tested in a dust chamber*	*6*	*Water projected in jets (12.5 mm) against the enclosure from any direction*
		7	*Immersion to 1 m*
		8	*Submersible equipment according to manufacturer's specifications*

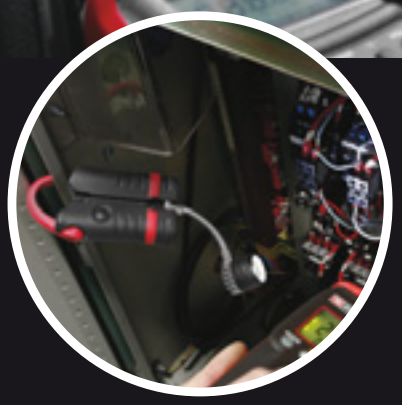
LED head lamp

779.FRT

- Fitted with 4 high-intensity LEDs.
- Washable removable strap.
- Normal and booster power settings (50 and 100 %) for adjusting brightness and autonomy.
- Turns through 180°.
- Fitted with a 20 x 3mm belt or helmet clip.
- Autonomy : approximately 50 hours in normal position, 20 hours in booster position.
- Presented on a card with 3 AA alkaline batteries and an interchangeable strap 779.FRT01.
- ⚖ : 91g.

New

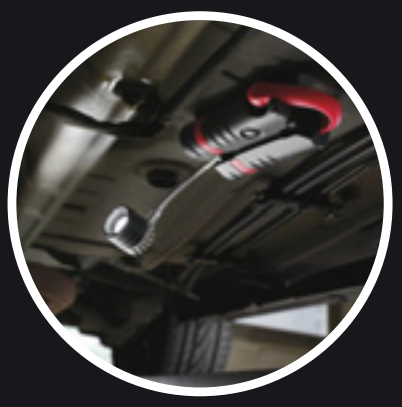
779.PC
"POCKET" LED light



HANDS FREE LIGHTING

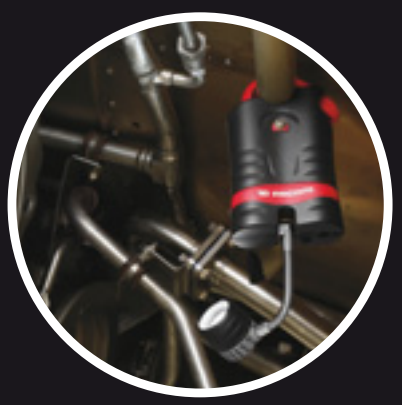
Quick and easy to attach.

To illuminate a work area, one hand is often needed to hold the lamp. The FVS Pocket leaves both hands free as it incorporates a range of options for attachment and light direction.



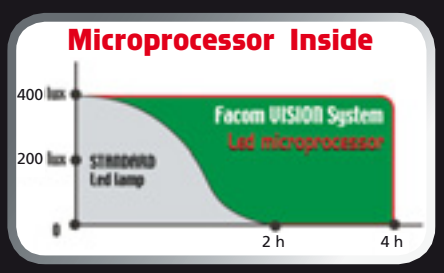
Long autonomous operation.

FVS Pocket is a genuinely professional lamp, no need to change the batteries. Equipped with a rechargeable LI-ION battery, it provides 4 hours of continuous operation and recharges in only 2 1/2 hours.



Professional quality.

Designed to the same specifications as FVS, it provides 4 hours of constant illumination and is very resistant to impact, workshop solvents and water (IP.55 : see table on page 847).



779.PC: the only genuinely hands-free pocket lamp.

Facom Vision System FVS POCKET

779.PC

- Cordless pocket light with rechargeable Lithium-ion battery.
- Battery life : 4 hour quick charging 2 1/2 hours.
- Microprocessor charging and brightness control.
- Constant level of brightness for the entire battery charge life.
- High-powered 1W LED.
- 2 settings :

- Economy (300 lux at 50 cm).
- Booster (400 lux at 50 cm).

- Impact-resistant housing.
- Protection rating : IP.55.
- Comes with wall bracket or bench stand, 230V charger, power cord, user manual and wrist strap.

	Sizes	⚖ g
779.PC	130 x 65 x 30 mm	210

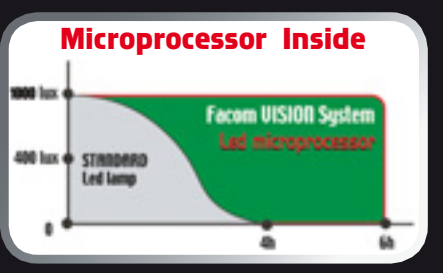
779.CL2 Cordless inspection lamp

FVS : a smart professional quality lamp

The power consumption of the LEDs of your FACOM FVS inspection lamp is controlled by a microprocessor. This guarantees that the specified lighting power is maintained for as long as possible, avoiding a sudden loss of brightness.

The service life of the Ni-MH batteries is optimised by a temperature sensor controlled by the microprocessor that avoids excessive over-heating of the batteries and allows them to be fully charged, safely and without risk of damage.

1,000 lux at 0.5 m for 6 hours between charges



Cordless LED inspection lamp

779.CL2

- Microprocessor control of brightness and battery charge :
- Guarantees a constant brightness of 800 lux for 6 hours between charges
- Controlled charge ensures long battery life.
- 14 high-performance white LEDs.
- Brightness : 1,000 lux at 0.5 m.
- High impact-resistant reinforced casing.
- Does not heat up in operation.
- Low battery indicated by flashing light.
- Operator customisation and identification system.
- Click-stopped hook for hanging and angling the lamp.
- Charger attaches to wall or workstation.
- Supplied with charger and 2 m long lead.
- Protection rating : IP 64.
- Impact resistance : IK 09.
- Mains power : 100-240 V.
- Charging time : 2 1/2 hours for 6 hours operation.
- Power supply unit with European 2 pin plug.
- Lamp dimensions : 263 x 50 x 50 mm.

⚖ : 480 g.

Facom VISION System EVOLUTION 2

Power supply and attachment kit for 779.CL1

779.CL14

• Comprising :
- A metal restraining bar that attaches to the lamp charger.
- A 12/24 V compatible power cord.
• Cigar-lighter cord 3 m long.
• Cigar-lighter cord supplied with 2 connectors for all types of socket.
• Compatible only with 779.CL1 and 779.CL2.
• Holds lamp 779.CL2 securely in place in a moving vehicle.

Pen light

836

• Aluminium body and tube.
• Length : 137mm.
• Tube diameter : 14mm.
• Operates using two LR03 AAA (1.5volt) batteries, not included.
• Adjustable focal length.
• Supplied with wrist strap
• Replacement bulb reference : 836.AMP.
⚖ : 29g.

230 V inspection lamp

777A.230

■ Complies with EN60598-1-2-8.
• Ingress protection rating IP 55 (dust and liquids).
■ Low consumption : 11 Watts
• Does not become hot.
• Impact resistant 11 Watt fluorescent tube.
• Long-lasting, powerful light.
■ Anti-glare hood.
• 300 lux at 50 cm. Glare-free light.
■ Long power cord supplied with plug.
• Hydrocarbon-resistant H05 RN-F rubber cable.
• No transformer.
• No cable reel.

	Description	Voltage	Length of lead	Lamp IP	kg
777A.230	Inspection lamp	230 V	10 m	55	1,2

	Description
777A.230-24-02	Spare fluorescent tube for 230V and 24V inspection lamps
777A.03	Spare protective glass for inspection lamps

24 V inspection lamp

777A.24

■ Complies with EN60598-1-2-8.
• Ingress protection rating IP 55 (dust and liquids).
■ Low consumption : 11 Watts
• Does not heat.
• Impact resistant 11 Watt fluorescent tube.
• Long-lasting, powerful light.
■ Anti-glare hood.
• 300 lux at 50 cm. Glare-free light.
■ Long power cord supplied with plug.
• Hydrocarbon-resistant H05 RN-F rubber cable.
• No transformer.
• No cable reel.

	Description	Voltage	Length of lead	Lamp IP	kg
777A.24	Inspection lamp	24 V	10 m	55	1,2

	Description
777A.230-24-02	Spare fluorescent tube for 230V and 24V inspection lamps
777A.03	Spare protective glass for inspection lamps

230 V inspection lamp

777A.230EN

▷ EN 60598 - 2 - 8

- Same specification as 777A.230.
- Reel for quick cable rewind and storage.
- Supplied with swivelling wall bracket.

	Voltage	Length of lead	Lamp IP	IP cable reel	⚖ kg
777A.230EN	230 V	14.5 m	55	42	4,81

	Description
777A.230EN02	Spare fluorescent tube
777A.03	Spare protective glass for inspection lamps

24 V inspection lamp with reel

777A.24EN

▷ EN 60598 - 2 - 8.

- Lamp specification as 777A.24.
- Reel for quick cable rewind and storage.
- Supplied with swivelling wall bracket.

	Voltage	Length of lead	Lamp IP	IP cable reel	⚖ kg
777A.24EN	24 V	14,5 m	55	42	4,38

	Description
777A.230-24-02	Spare fluorescent tube for 230V and 24V inspection lamps
777A.03	Spare protective glass for inspection lamps

Electric cable reel

777A.ENFR

- 2 poles + earth cable.
- Max allowable power in fully unwound cable 1,800 W.
- Lead 12 m long.
- Supplied without a plug as requirements differ widely according to country and market. A plug must therefore be installed by the user.
- IP rating 42.
- Supplied with swivelling wall bracket.

⚖ : 4.22 kg.

TEAM
FACOM

14. Power tools

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Impact wrenches 574

Ratchets 580

Drill-drivers 581

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Grinders 586

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Other power tools 594

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Caulking gun 595
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Engraving pen 596
Rust remover 596
Air jet 597

Air supply 597

Filters - Regulators – Lubricators 597
Fittings 598

Professional performance

Advantages

- Powerful
- Long battery life
- Sturdy
- Lightweight
- Battery locks onto the machine by means of a sliding rail system.
- Ni-MH batteries: increased durability and battery life.

NEW

The ultimate composite impact tool

Advantages

- Powerful
- Quiet
- Lightweight
- Durable

N 575

Safety first

- **FACOM power tools comply with the machinery directive 98/37/EC**
- **FACOM pneumatic tools comply with the safety requirements of European EN 792 for pneumatic tools**
- **FACOM battery-powered electric tools comply with European standard EN 60745 on hand-held electric tools**

For maximum safety we recommend that you :

- *Always wear eye protection (See page 603)* ➤
- *Always wear gloves and a face-mask (See page 604)* ➤
- *Use only Impact grade sockets and accessories with impact tools (See page 243)* ➤
- *Never remove original guards, safety catches, etc.*
- *Always switch off air supply before servicing tools*

INFORMATION

N.m

The power of impact wrenches needs to be measured under constant and ideal laboratory conditions. The maximum dynamic torques are values measured under these conditions. These make it possible to compare the values of different machines. They are difficult to achieve under normal workshop conditions. It is for this reason that we also measure the capacity of our tools under standard workshop conditions. This gives the guaranteed static torque.

New

CORDLESS RANGE

PROFESSIONAL POWER AND PERFORMANCE

POWER AUTONOMY STRENGTH

❶ INTEGRAL LIGHTING

- *Perfect visibility in poorly lit working areas.*
- *Contrasting, directional white light.*

VARIABLE TRIGGER SPEED CONTROL

- *Controls speed and power to protect the assembly.*
- *Optimum pre-tightening, precision and total control.*

❸ Ni-MH BATTERIES : CLEAN, EFFICIENT POWER

- *No memory effect increased durability and battery life.*
- *Provides a constant level of power until the battery is completely discharged.*
- *Increased instantaneous power for quickrelease.*
- *Lighter than an Ni-Cd battery of equivalent power.*
- *Respects the environment and complies with the new 2006 European Directive.*

❼ Rotation reverse switch

❻ Ergonomic Facom design

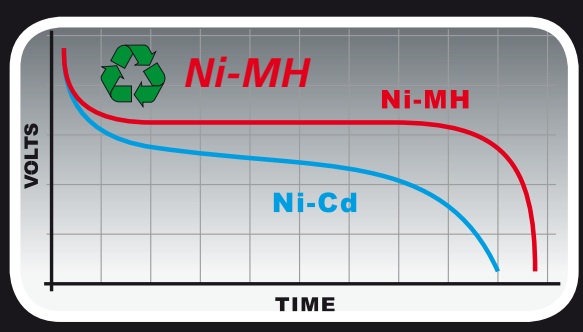
- *Compact and lightweight*
- *Bi-material construction for reduced vibration and increased working comfort.*
- *Firm comfortable grip.*

❺ Bumpers

- *Integral protective rubber bumpers providing improved impact resistance.*
- *Protect the machine and its environment.*
- *Prevents tool sliding on sloping surfaces.*

❹ SLIDING LOCK SYSTEM

- *Battery locks onto the machine by means of a sliding rail system.*
- *Ensuring reliability, strength and durability of electrical contacts.*
- *The "Sliding Lock" system guarantees an optimum current.*



SLIDING LOCK

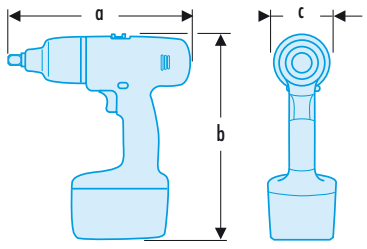
19.2V battery-powered 1/2" impact wrench

CL.C1913

- Always available for quick on-site repairs.
- Powerful, reliable latest generation 19.2 V motor.
- Trigger speed adjustment and power control.
- Accessible, removable carbon brushes enabling simple, immediate repair.
- Integral lighting system for perfect visibility in poorly lit working areas
- Battery locks onto the machine by means of a sliding rail system ensuring reliability, strength and durability of electrical contacts.
- Ni-MH batteries.
- Integral elastomer bumpers.
- For use with FACOM NS Impact series sockets.

Contents of set CL.C1913
- Impact wrench : CL.C1913D - Universal charger : CL.CH919
- 2 Ni-MH batteries : CL.BA19 - Operating instructions

- Weight of machine + battery : 3.1 kg.



	⍁ "	a mm	b mm	c mm	⍙ kg
CL.C1913	1/2	252	199	75,5	6,2

Impact wrench

CL.C1913

Specification	
Max torque	330
hard screwdriving (Nm)	220
Free speed (rpm)	2000
Rated impact rate (impacts per minute)	1600
Interchangeable carbon brushes	Yes
Light	Yes
Electronic speed controller	Yes
Battery	
Battery voltage	19,2
Battery capacity (Ah)	2,6
Battery technology	Ni-MH
Approx. charging time (min)	1h30
Dimensions	
Length (mm)	252
Height (mm)	199
Weight including battery (kg)	3,2

Freedom and power.

- *Maximum torque 330 Nm and 2,500 Impacts per minute.*
- *Freedom of movement inside and outside the workshop, without hoses.*
- *Fast site repairs.*
- *2 Ni-MH batteries providing sufficient power for over 300 operations between charges.*

Smart universal charger

CL.CH919

- One charger fits all FACOM batteries, from 9.6 to 19.2 V, Ni-Cd or Ni-MH.
- Fast charging.
- Delta Volt (DV) technology stops charging at the optimum time.
- Charge monitoring and "maintenance" mode ensure long battery life.

	Voltage V	Technology	a mm	b mm	c mm	⍙ g
CL.CH919	from 9,6 to 19,2 DC	Ni-Mh & Ni-Cd	180	116	67	600

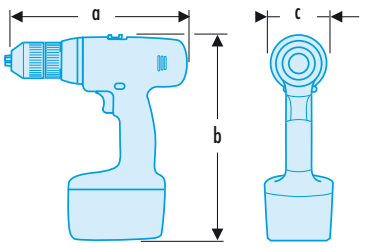
10 mm / 12 V and 13 mm / 14.4 V battery-powered drill-driver

CL.P1413

- Trigger speed adjustment and power control.
- No risk of over-torquing when starting or stopping a screwing operation : optimum pre-tightening, precision and protection of the assembly.
- Integral lighting system for perfect visibility in poorly lit working areas
- Battery locks onto the machine by means of a sliding rail system ensuring reliability, strength and durability of electrical contacts.
- Integral elastomer bumpers.
- For use with FACOM 6-series screwdriver bits.

Contents of set CL.P1210
- Drill-driver : CL.P1210D - Universal charger : CL.CH919
- 2 Ni-Cd batteries : CL.BA12 - Operating instructions.

Contents of set CL.P1413
- Drill-driver : CL.P1413D - Universal charger : CL.CH919
- 2 Ni-MH batteries : CL.BA14 - Operating instructions.



	a mm	b mm	c mm	kg
CL.P1413	232	199	64	4,9

14 VOLT DRILL-DRIVERS

Manoeuvrable and lightweight

- *Firm comfortable grip.*
- *Bi-material handle : reduced vibration and increased working comfort.*
- *10 mm chuck.*

Robust and mobile.

- *Professional reliability : intensive use and difficult applications.*
- *13 mm chuck and carbide jaws for heavy-duty tasks.*

Specification	CL.P1413
Max torque - hard screwdriving (Nm)	44
Max torque - soft screwdriving (Nm)	24
Free speed, 1st gear (rpm)	340
Free speed, 2nd gear (rpm)	1180
Electronic speed controller	Yes
Automatic chuck	Yes
Torque settings	Yes
Levels of torque setting	16+1
Battery	
Battery voltage and capacity (Ah)	14,4
Battery voltage and capacity (Ah)	2,6
Battery technology	Ni-MH
Approx. charging time (min)	1h30
Drilling diameter	
Ø max. in wood (mm)	35
Ø max. in steel (mm)	13

CL.BA Batteries

- Ni-MH batteries : clean, efficient power.

	Voltage V	For	Technologie	Capacité Ah	kg
CL.BA19	19,2 DC	CL.C1913D	Ni-Mh	2,6	1,1
CL.BA14	14,4 DC	CL.V146D & CL.P1413D	Ni-Mh	2,6	0,8

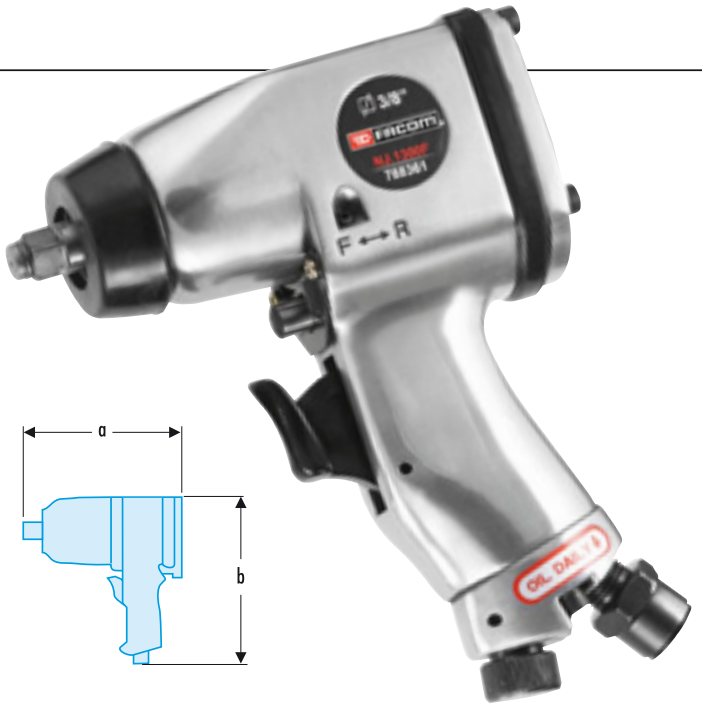
Impact wrenches

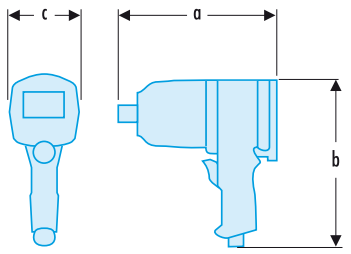
3/8" impact wrench

NJ.1300F

- Speed controller.
- Pressure adjustment knob.
- Direction reversal knob.
- Free speed : 12,500 rpm.
- Recommended dynamic torque : 7 - 68 Nm.
- Maximum dynamic torque : 102 Nm.
- Guaranteed static torque : 82 Nm.
- Impact rate (per minute) : 600.
- Average air consumption : 85 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.

	a mm	b mm	c mm	⚖ kg
NJ.1300F	137	167	49	1,24



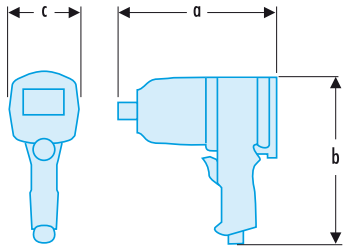


3/8" impact wrench

NJ.2000F

- Very strong, lightweight steel/composite casing.
- Double-hammer mechanism.
- High working torque.
- Free speed : 10,000 rpm.
- Recommended dynamic torque : 30-300.
- Maximum dynamic torque : 380 Nm.
- Guaranteed static torque : 205 Nm.
- Impact rate (per minute) : 1,510.
- Average air consumption : 119 l/min.
- Air inlet thread : 1/4".
- 3 tightening torque settings.
- Direction reversal knob.
- Working pressure : 6.2 bars.

	a mm	b mm	c mm	⚖ kg
NJ.2000F	157	165	58	1,26



Impact wrench specifications

Reference	NJ.1300F	NJ.2000F	NS.1010F	NS.1090LF	NS.1800F
Square drive	3/8"	3/8"	1/2"	1/2"	1/2"
Free speed (rpm)	12 500	10 000	8 000	8 000	8 000
Recommended dynamic torque (Nm)	7 - 68	30 - 300	30 - 500	30 - 500	65 - 550
Maximum dynamic torque (Nm)	102	380	610	610	813
Guaranteed static torque (Nm)	82	205	400	320	380
Impact rate (per minute)	600	1 510	1 100	1 100	1 200
Weight (kg)	1,24	1,3	2,6	2,82	2,25
Length (mm)	137	157	187	239	180
Average air consumption (l/min)	85	119	113	113	138
Air inlet thread (inches)	1/4	1/4	1/4	1/4	1/4
Ø int. air hose (mm)	10	10	10	10	10
Working pressure (bar)	6,2	6,2	6,2	6,2	6,2

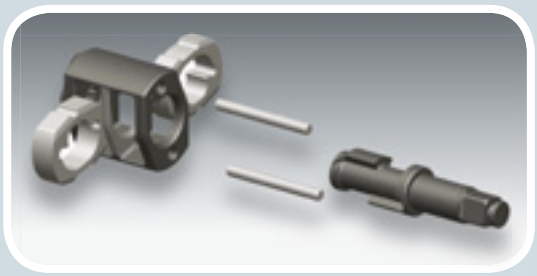
Impact wrench NS.1800F

THE ULTIMATE COMBINATION : POWERFUL, SILENT AND LIGHTWEIGHT

Twin-hammer mechanism.

Exclusive double-hammer mechanism.

- *Better balance*
- *More power*
- *More durable*



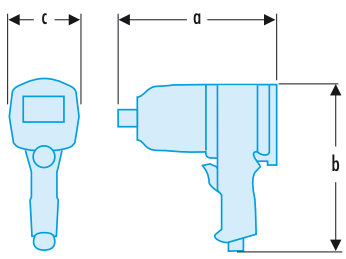
4-position controller/ reverser.

Composite 1/2" impact wrench

NS.1800F

- Lightweight aluminium/composite body.
- Pressure and direction control knob.
- Double-hammer mechanism.
- Free speed : 8,000 rpm.
- Recommended dynamic torque : 65 - 550 Nm.
- Maximum dynamic torque : 813 Nm.
- Guaranteed static torque : 380 Nm.
- Impact rate (per minute) : 1,200.
- Average air consumption : 138 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.

	a mm	b mm	c mm	kg
NS.1800F	180	183	69	2,25



1/2" impact wrench

NS.1010F

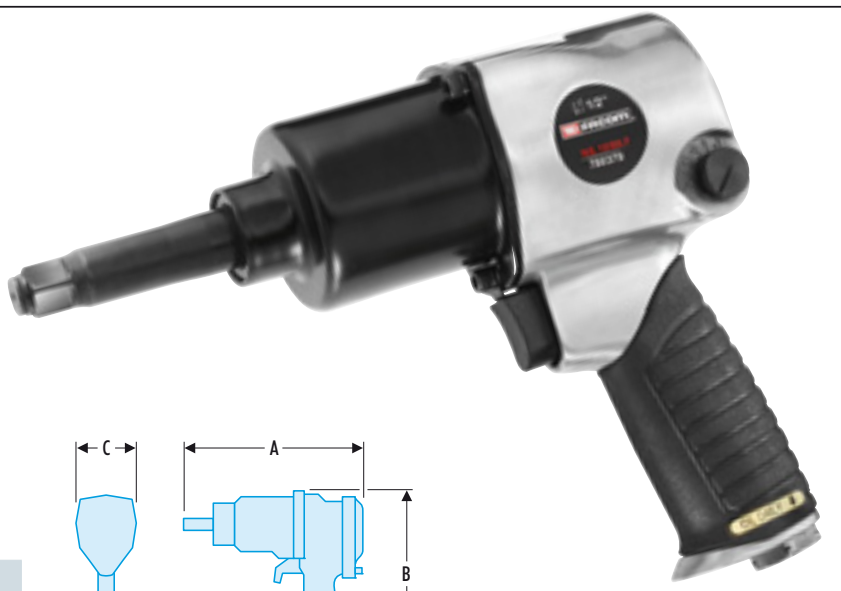
- Speed controller.
- Five-position pressure adjustment knob.
- Direction reversal knob.
- Double-hammer mechanism.
- Free speed : 8,000 rpm.
- Recommended dynamic torque : 30 - 500 N..m.
- Maximum dynamic torque : 610 Nm.
- Guaranteed static torque : 400 Nm.
- Impact rate (per minute) : 1,100.
- Average air consumption : 113 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.

	a mm	b mm	c mm	⚖ kg
NS.1010F	187	188	69	2,6

Long-reach 1/2" impact wrench

NS.1090LF

- Long-reach impact wrench.
- Five-position pressure adjustment knob.
- Direction reversal knob.
- Double-hammer mechanism.
- Free speed : 8,000 rpm.
- Recommended dynamic torque : 30 - 500 Nm.
- Maximum dynamic torque : 610 Nm.
- Guaranteed static torque : 320 Nm.
- Impact rate (per minute) : 1,100.
- Average air consumption : 113 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.



	a mm	b mm	c mm	⚖ kg
NS.1090LF	239	188	69	2,8

1/2" impact wrench set

NS.1010AE

- Comprehensive set :
- Socket size indicated.
- Compact set.
- Complete with case BP.NS990CE (326x295x106 mm) and tray PL.451.
- Comprising :

- 1 impact wrench NS.1010F.
- 13 impact sockets NS.10A, 11A, 12A, 13A, 14A, 16A, 17A, 18A, 19A, 21A, 22A, 24A and 27A.
- 1 extension NS.215A.
- 1 universal joint NS.240A
- 1 male threaded fitting NBB.103.
- 3 Rings and 3 locking pins (BA and GA).

⚖ : 6.11 kg.

1/2" impact wrench set

NS.1800FE

- Comprehensive set :
- Socket size indicated.
- Compact set.
- Complete with case BP.NS990CE (326x295x106 mm) and tray PL.451.
- Comprising :

- 1 impact wrench NS.1800F.
- 13 impact sockets NS.10A, 11A, 12A, 13A, 14A, 16A, 17A, 18A, 19A, 21A, 22A, 24A and 27A.
- 1 extension NS.215A.
- 1 universal joint NS.240A
- 1 male threaded fitting NBB.103.
- 3 Rings and 3 locking pins (BA and GA).

⚖ : 5.52 kg.

3/4" impact wrenches

3/4" impact wrench

NK.990F

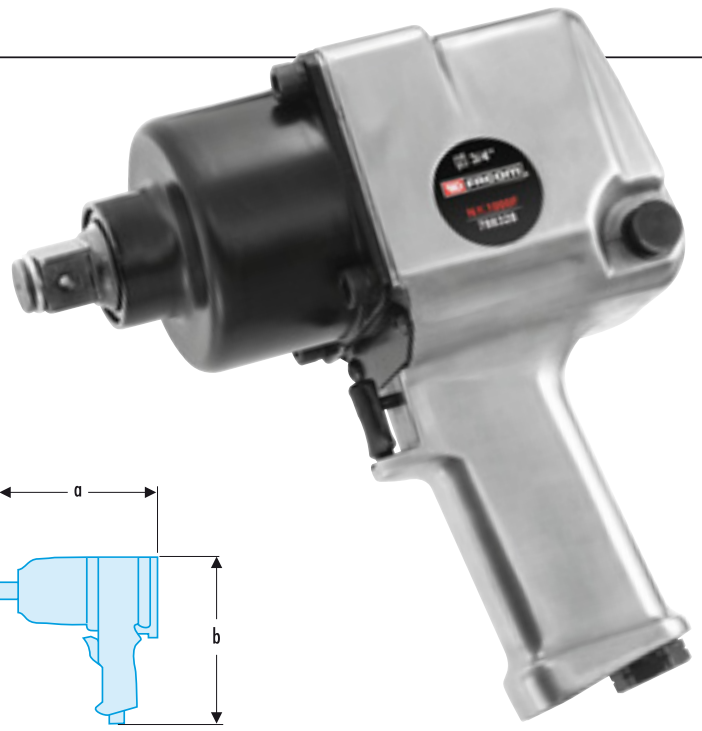
- Speed controller.
- Direction reversal knob.
- Double-hammer mechanism.
- Free speed : 7,200 rpm.
- Recommended dynamic torque : 130 - 700 Nm.
- Maximum dynamic torque : 1,020 N..m.
- Guaranteed static torque : 790 Nm.
- Impact rate (per minute) : 1,000.
- Average air consumption : 198 l/min.
- Air inlet thread 1/4".
- Working pressure : 6.2 bars.

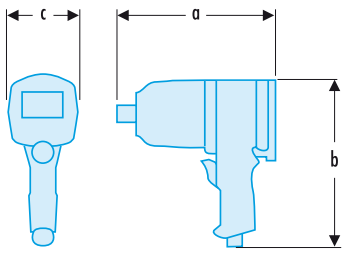
	a mm	b mm	c mm	⚖ kg
NK.990F	235	203	80	4,5

3/4" impact wrench

NK.1000F

- Speed controller.
- Direction reversal knob.
- Double-hammer mechanism.
- Free speed : 5,500 rpm.
- Recommended dynamic torque 270 - 1,220 Nm.
- Maximum dynamic torque 1,495 Nm.
- Guaranteed static torque : 880 Nm.
- Impact rate (per minute) : 820.
- Average air consumption : 269 l/min.
- Air inlet thread : 3/8".
- Working pressure : 6.2 bars.





	a mm	b mm	c mm	⚖ kg
NK.1000F	222	233	93	5,6

Composite 3/4" impact wrench

NK.2000F

- Speed controller.
- 3 tightening torque settings.
- Direction reversal knob.
- Double-hammer mechanism.
- Free speed : 5,500 rpm.
- Recommended dynamic torque : 270 - 1,220 Nm.
- Maximum dynamic torque : 1,500 Nm.
- Guaranteed static torque : 810 Nm.
- Impact rate (per minute) : 1,050.
- Average air consumption : 600 l/min.
- Air inlet thread : 3/8".
- Working pressure : 6.2 bars.

3/4" impact wrench set

NK.1101E

- 15-piece set comprising :

- 1 impact wrench NK.1000F.
- 11 impact sockets NK.19A, 21A, 22A, 23A, 24A, 26A, 27A, 28A, 29A, 30A and 32A.
- 1 extension NK.210A.
- 1 universal joint NK.240A.
- 1 sleeve N.610.
- 3 Rings and 3 locking pins (BA and GA).

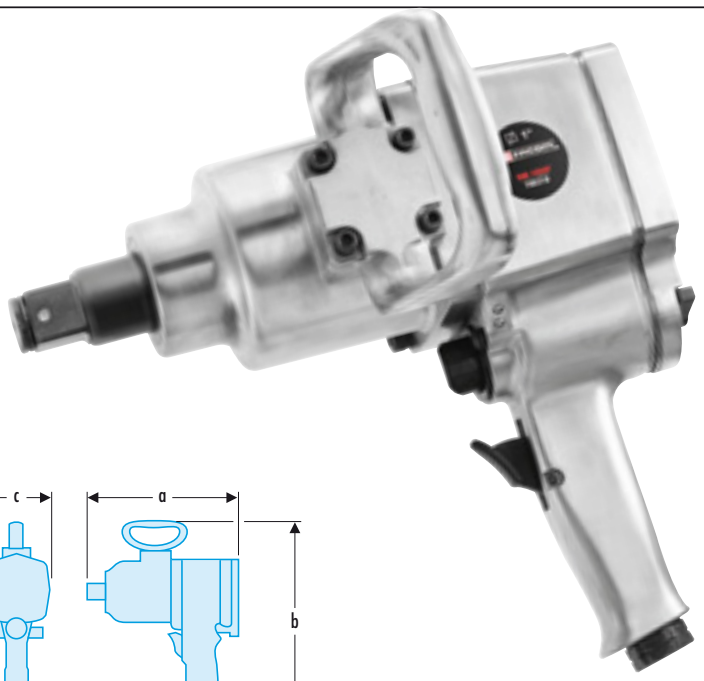
- Complete with metal case BT.104 and tray PL.81B.

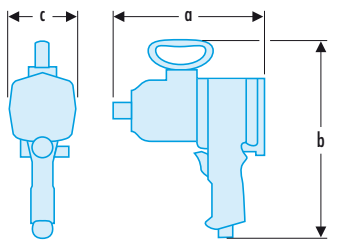
⚖ : 19.6 kg.

1" impact wrench

NM.1000F

- Speed controller.
- Direction reversal knob.
- Double-hammer mechanism.
- Free speed : 4,400 rpm.
- Recommended dynamic torque : 130-1,650 Nm.
- Maximum dynamic torque : 2,170 Nm.
- Guaranteed static torque : 1500 Nm.
- Impact rate (per minute) : 720.
- Average air consumption : 255 l/min.
- Air inlet thread : 1/2".
- Working pressure : 6.2 bars.



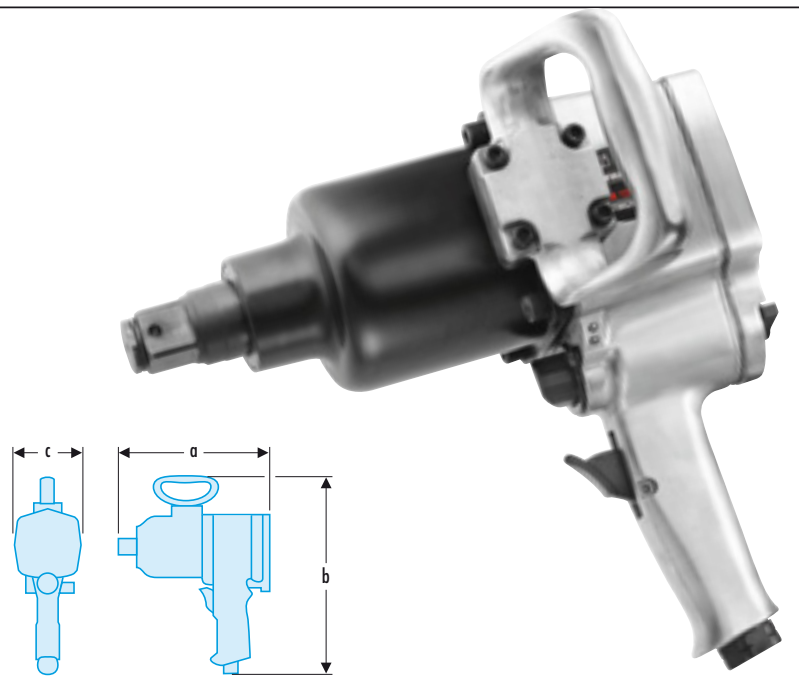


	a mm	b mm	c mm	⚖ kg
NM.1000F	300	290	205	9,84

1" impact wrench

NM.1200F

- Air exhaust in the handle
- Speed controller.
- Direction reversal knob.
- Double-hammer mechanism.
- Free speed : 4,200 rpm.
- Recommended dynamic torque : 150-1,800 Nm.
- Maximum dynamic torque : 2,440 Nm.
- Guaranteed static torque : 1700 Nm.
- Impact rate (per minute) : 660.
- Average air consumption : 255 l/min.
- Air inlet thread : 1/2".
- Working pressure : 6.2 bars.

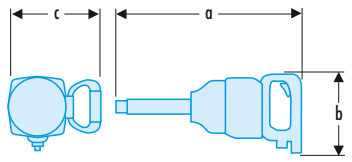


	a mm	b mm	c mm	kg
NM.1200F	290	290	218	11,2

Long-reach 1" impact wrench

NM.1010LF

- 200 mm long shank.
- Speed controller.
- Direction reversal knob.
- 3-position power control.
- Double-hammer mechanism.
- Free speed : 4,500 rpm.
- Recommended dynamic torque : 130-1,650 Nm.
- Maximum dynamic torque : 2,170 Nm.
- Guaranteed static torque : 1500 Nm.
- Impact rate (per minute) : 720.
- Average air consumption : 255 l/min.
- Air inlet thread 1/2".
- Working pressure : 6.2 bars.



	a mm	b mm	c mm	kg
NM.1010LF	523	172	202	11,3

Impact wrench specifications

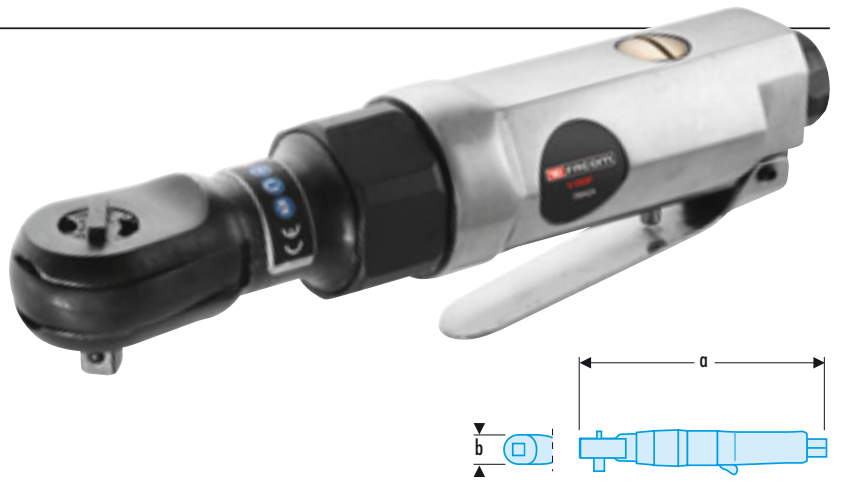
Reference	NK.990F	NK.1000F	NK.2000F	NM.1000F	NM.1200F	NM.1010LF
Square drive	3/4"	3/4"	3/4"	1"	1"	1"
Free speed (rpm)	7 200	5 500	5 500	4 400	4 200	4 500
Recommended torque (Nm)	130 - 700	270 - 1 220	270-1220	130 - 1650	150 - 1 800	130 - 1650
Maximum torque (Nm)	1 020	1 495	1500	2 170	2 440	2 170
Guaranteed static torque (Nm)	700	880	810	1 500	1 700	1 500
Impact rate (per minute)	1 000	820	1 050	720	660	720
Weight (kg)	4,55	5,6	3,88	9,84	11,2	11,4
Length (mm)	235	222	221	300	290	523
Average air consumption (l/min)	198	269	600	255	255	255
Air inlet thread (inches)	3/8	3/8	3/8	1/2	1/2	1/2
Ø int. air hose (mm)	13	13	13	19	19	19
Working pressure (bar)	6,2	6,2	6,2	6,2	6,2	6,2

Ratchets

1/4" ratchet

V.580F

- Compact size, ideal for confined spaces.
- Free speed : 250 rpm.
- Recommended working torque : 7-27 Nm.
- Average air consumption : 62 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Screw size : M6

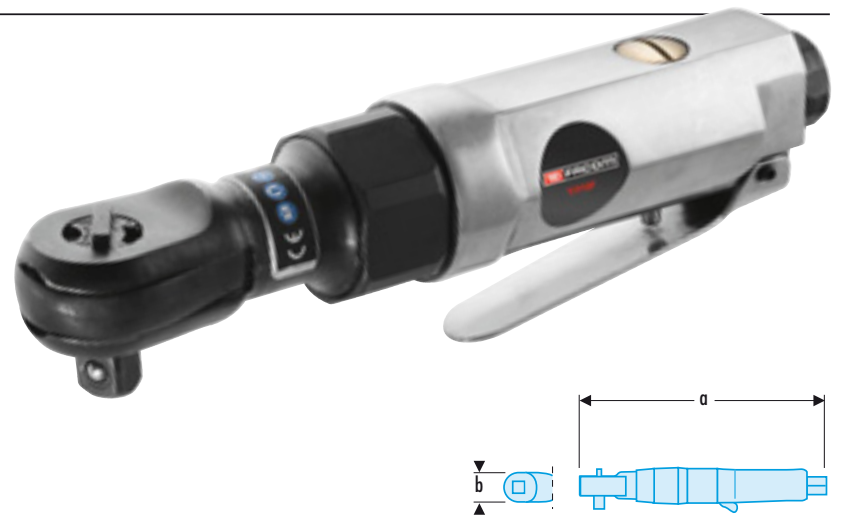


	a mm	b mm	kg
V.580F	176	91	0,5

3/8" ratchet

V.910F

- Compact size.
- Free speed : 250 rpm.
- Recommended working torque : 7-27 Nm.
- Average air consumption : 62 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Screw size : M6



	a mm	b mm	kg
V.910F	176	91	0,5

1/2" ratchet

V.690F

- Composite handle for a better grip and reduced weight.
- Unique head design providing maximum protection against dust.
- Air exhaust turns through 360°.
- Free speed : 280 rpm.
- Recommended working torque : 14-68 Nm.
- Average air consumption : 113 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Screw size : M10.

	a mm	b mm	kg
V.690F	276	59,4	1,24

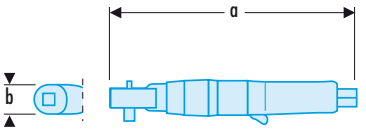
Ratchet specifications

Reference	V.580F	V.910F	V.690F	V.950F
Square drive	1/4"	3/8"	1/2"	1/2"
Free speed (rpm)	250	250	280	270
Maximum torque (Nm)	27	27	81	108
Weight (kg)	0,5	0,52	1,24	1,62
Length (mm)	176	176	276	313
Average air consumption (l/min)	62	62	113	130
Air inlet thread (inches)	1/4"	1/4"	1/4"	1/4"
Ø int. air hose (mm)	10	10	10	10
Working pressure (bar)	6,2	6,2	6,2	6,2

1/2" ratchet

V.950F

- Unique head design providing maximum protection against dust.
- Air exhaust turns through 360°.
- Free speed : 270 rpm.
- Recommended working torque : 14-95 Nm.
- Average air consumption : 130 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Screw size : M12.



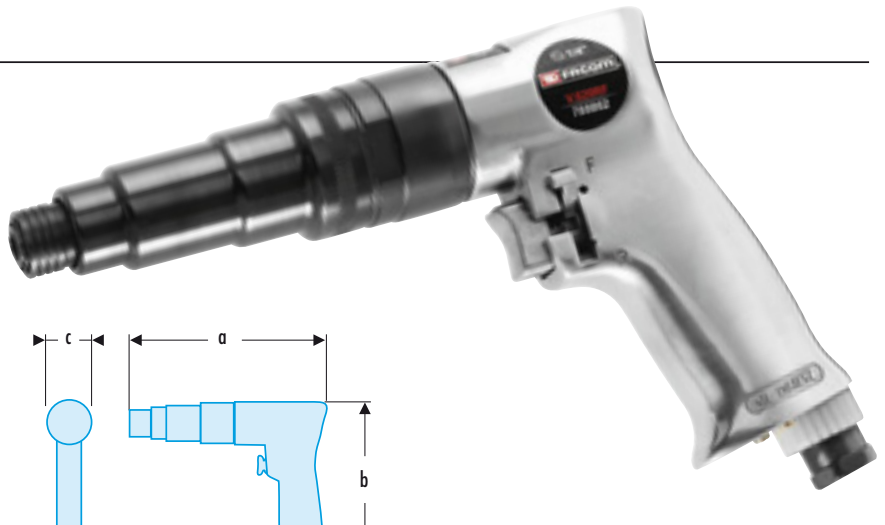
	a mm	b mm	kg
V.950F	313	52	1,62

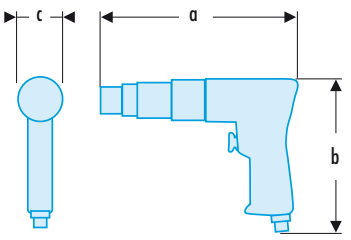
Screwdrivers

Reversible screwdriver

V.620RF

- Free speed : 1,800 rpm.
- Recommended working torque : 13 Nm.
- Average air consumption : 110 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Screw size : M4.



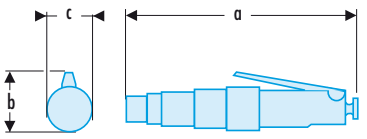


	a mm	b mm	kg
V.620RF	216	163	1,2

Reversible screwdriver

V.610RF

- Free speed : 1,800 rpm.
- Recommended working torque : 13 Nm.
- Average air consumption : 110 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Screw size : M4.



	a mm	b mm	kg
V.610RF	270	70	1,1

Screwdriver specifications

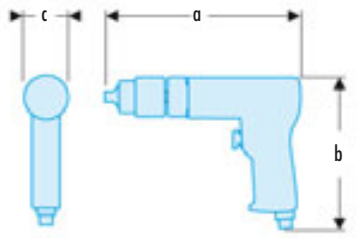
Reference	V.620RF	V.610RF
Free speed (rpm)	1 800	1 800
Maximum effective torque (Nm)	13	13
Weight (kg)	1,2	1,1
Length (mm)	176	176
Average air consumption (l/min)	280	280
Air inlet thread (inches)	1/4"	1/4"
Ø int. air hose (mm)	10	10
Working pressure (bar)	6,2	6,2

Drills

Drill with self-locking 10 mm chuck

V.102MF

- Self-locking steel chuck.
- Free speed : 2,800 rpm.
- Average air consumption : 124 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Motor power rating : 0.44 kW.



	a mm	b mm	c mm	kg
V.102MF	200	135	44	1,33

	Description
V.102MFA1	10 mm chuck

Drill with self-locking 13 mm chuck

V.96F

- Self-locking steel chuck.
- Free speed : 1,300 rpm.
- Average air consumption : 124 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Motor power rating : 0.44 kW.
- Supplied with side handle.

	a mm	b mm	c mm	kg
V.96F	246	137	153	1,5

	Description
V.96FA1	13 mm chuck

Drill specifications

Reference	V.102MF	V.96F
Chuck capacity	10	13
Free speed (rpm)	2 800	1 300
Motor power rating (kW)	0,6	0,6
Weight (kg)	1,33	1,5
Length (mm)	200	246
Average air consumption (l/min)	113	113
Air inlet thread (inches)	1/4"	1/4"
d int. air hose (mm)	10	10
Working pressure (bar)	6,2	6,2

Sanders

Orbital sander 152 mm - 5 mm orbit

V.252F

- Can connect to a central exhaust unit.
- Speed of rotation : 10,000 rpm.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Pad diameter 152 mm.
- Supplied with a 6-hole Velcro pad.
- Orbit 5 mm.
- Average air consumption : 104 l/min.
- Rotation speed control system.

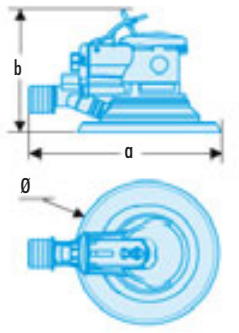
	a mm	b mm	kg
V.252F	225	115	0,74

	Description
V.252F1	6 hole Velcro pad

One-handed orbital sander ∅ 150 mm - 2.5 mm orbit

V.252

- Ultra-light one-handed sander, special high finish.
- Supplied with 6-hole ∅ 150 mm.
- Powerful torque, comfortable thermal and vibration-insulated body.
- Compatible with all ∅ 29 mm.
- Dust-proof double bearing.
- Speed can be varied during sanding using handle-mounted control.
- Air connection (female thread) 1/4".
- Recommended air hose (∅ int.) : 8 mm.
- Recommended fitting (thread - ∅ int.) : 1/4"-6.
- Pressure : 6.3 bars.
- Speed of rotation : 10,000 rpm.
- Average air consumption : 380 l/min.
- Noise level : 77,8.
- Vibration level : < 2.5 m/s².
- ∅ Tray : 150 mm.
- Eccentric offset : 2.5 mm.



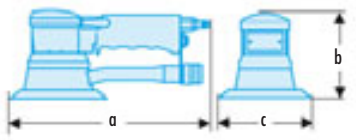
	a mm	b mm	∅ mm	⚖ kg
V.256	205	125	150	0,87

	Description
V.256A1	6 hole Velcro pad ∅ 150 mm.

Two-handed orbital sander ∅150 mm - 8 mm orbit

V.252

- Easy to handle, lightweight roughing sander.
- Supplied with 6-hole ∅ 150 mm.
- Double bearing, comfortable thermal and vibration-insulated body.
- Compatible with all ∅ 29 mm.
- Variable speed control from 5,000 to 10,000 rpm.
- Air connection (female thread) 1/4".
- Recommended air hose (∅ int.) : 8.
- Recommended fitting (thread - ∅ int.) : 1/4"-6.
- Pressure : 6.3 bar.
- Speed of rotation : 10,000 rpm.
- Average air consumption : 340 l/min.
- Noise level (dB(A)) : 76.1.
- Vibration level : 3 m/s².
- ∅ Tray : 150 mm.
- Eccentric offset : 8 mm.



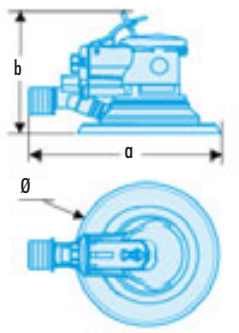
	a mm	b mm	c mm	⚖ kg
V.258	305	140	150	1,5

	Description
V.258A1	6 hole Velcro pad ∅ 150 mm

Two-handed orbital sander

V.254F

- Rotation speed control system.
- Can connect to a central exhaust unit.
- Speed of rotation : 9,000 rpm.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Pad diameter 152 mm.
- Supplied with a 6-hole Velcro pad.
- Orbit 5 mm.
- Average air consumption : 115 l/min.



	a mm	b mm	∅ mm	⚖ kg
V.254F	275	110	150	1,3

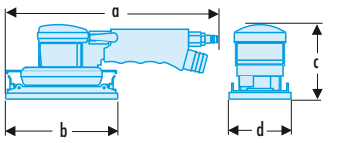
	Description
V.252F1	6 hole Velcro pad

Vibrating sanders

Vibrating sander - 95 x 170 mm - 8 holes

V.252

- Easy to handle, lightweight roughing sander.
- Supplied with pad and 8-hole abrasive perforator.
- High-quality chrome-plated aluminium motor, comfortable thermally-insulated body.
- Clips for standard abrasives.
- Compatible with all Ø 29 mm.
- Variable speed control from 5,000 to 10,000 rpm.
- Air connection (female thread) : 1/4".
- Recommended air hose (Ø int.) : 8 mm.
- Recommended fitting (thread - Ø int.) : 1/4"-6.
- Pressure : 6.3 bars.
- Speed of rotation : 10,000 rpm.
- Average air consumption : 360 l/min.
- Noise level : 74.
- Vibration level : 5.4 m/s².
- Eccentric offset : 5 mm.



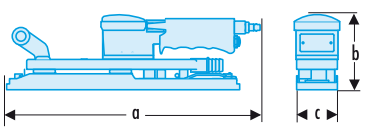
	a mm	b mm	c mm	d mm	ΔΔ kg
V.260	320	170	120	95	1,7

	Description
V.260A1	8 hole punch
V.260SAV50B	95 x 170 mm pad

Long vibrating sander - 70 x 400 mm - 14 holes

V.252

- Air connection (female thread) : 1/4".
- Recommended air hose (Ø int.) : 8 mm.
- Recommended fitting (thread - Ø int.) : 1/4"-6.
- Pressure : 6.3 bars.
- Speed of rotation : 10,000 rpm.
- Average air consumption : 360 l/min.
- Noise level : 73,5.
- Vibration level : 6.8 m/s².
- Ø pad : 70 x 400 mm.
- Eccentric offset : 5 mm.
- Long sound-proofed sander for sanding large areas.
- Supplied with 14-hole Velcro pad 70 x 400 mm.
- High-quality chrome-plated aluminium motor with sealed double bearing.
- Clips for standard abrasives, insulated handle and motor body.
- Compatible with all Ø 29 mm pipe extraction systems.
- Variable speed control from 5,000 to 10,000 rpm.



	a mm	b mm	c mm	ΔΔ kg
V.262	435	129	70	2,5

	Description
V.262SAV51	70 x 400 mm pad

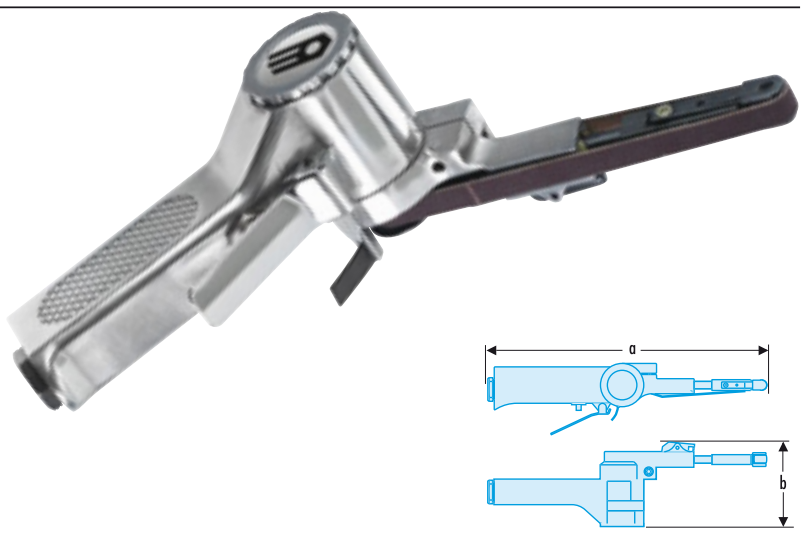
Vibrating sander specifications

Reference	V.256	V.252F	V.254F	V.258	V.260	V.262
Orbit (mm)	2,5	5	5	8		
Pad dimensions (mm)	150	152	152	150	95 x 170	70 x 400
Free speed (rpm)	10 000	10 000	10 000	10 000	10 000	10 000
Weight (kg)	0,87	0,74	0,8	1,5	1,7	2,5
Length (mm)	205	225	275	305	320	435
Average air consumption (l/min)	380	368	360	340	360	360
Air inlet thread (inches)	1/4"	1/4"	1/4"	1/4"	1/4"	1/4"
Ø int. air hose (mm)	8	10	10	8	8	8
Working pressure (bar)	6,2	6,2	6,2	6,2	6,2	6,2

Belt sanders

Belt sander - 10 x 330 mm

V.252



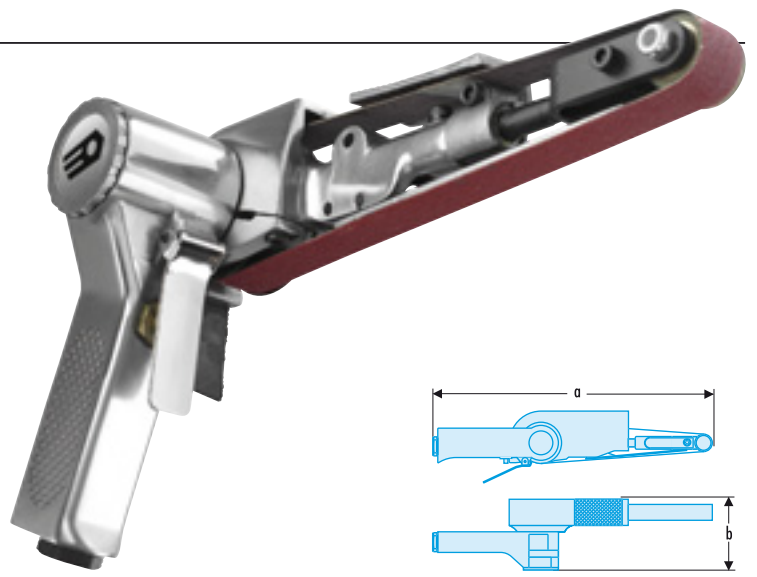
- Surface roughing and cleaning.
- Multi-position adjustable handle.
- Quick-change belt system.
- Supplied with 3 belts (one ready-mounted) : 2 x 120 grit, 1 x 80 grit.
- Air connection (female thread) : 1/4".
- Recommended air hose (Ø int.) : 8 mm.
- Recommended fitting (thread - Ø int.) : 1/4"-6.
- Pressure : 6.3 bars.
- Speed of rotation : 15,000 rpm.
- Average air consumption : 400 l/min.
- Noise level : 79,4.
- Vibration level : < 2.5 m/s².
- Belt size : 10 x 330 mm.
- Each belt reference corresponds to a single belt.
- Minimum order = 10 belts.

	a mm	b mm	⚖ g
V.402	284	76	800

	Description
V.402A1	80 grit belt 10 x 330
V.402A2	120 grit belt 10 x 330

High capacity belt sander - 20 x 520 mm

V.252



- Surface roughing and cleaning.
- Multi-position adjustable handle.
- Quick-change belt system.
- Supplied with 2 belts (one ready-mounted) : 1 x 120 grit, 1 x 80 grit.
- Air connection (female thread) : 1/4".
- Recommended air hose (Ø int.) : 8 mm.
- Recommended fitting (thread - Ø int.) : 1/4"-6.
- Pressure : 6,3 bar.
- Speed of rotation : 17,000 rpm.
- Average air consumption : 400 l/min.
- Noise level : 78.
- Vibration level : < 2.5 m/s².
- Belt size : 20 x 520 mm.
- Each belt reference corresponds to a single belt.
- Minimum order = 10 belts.

	a mm	b mm	⚖ kg
V.403	353	89	1,15

	Description
V.403A1	80 grit belt 20 x 520
V.403A2	120 grit belt 20 x 520

Belt sander specifications

Reference	V.402	V.403
Free speed (rpm)	15 000	17 000
Weight (kg)	0,8	1,15
Length (mm)	284	353
Average air consumption (l/min)	400	400
Air inlet thread (inches)	1/4	1/4
Ø int. air hose (mm)	8	8
Working pressure (bar)	6,3	6,3

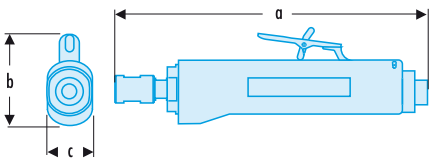
Grinders

Straight grinders - 6 mm collet

Straight grinder - 6 mm collet

V.445F

- Front air exhaust.
- Air hose bore 10 mm.
- Speed of rotation : 20,000 rpm.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Average air consumption : 180 l/min.

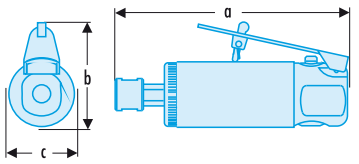


	a mm	b mm	Ø mm	kg
V.445F	207	80	43	0,9

Straight grinder

V.345F

- Speed of rotation : 20,000 rpm.
- Speed controller.
- Front air exhaust.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Average air consumption : 113 l/min.
- Power : 0.4 hp.



	a mm	b mm	c mm	kg
V.345F	145	58	40	0,5

Grinder specifications

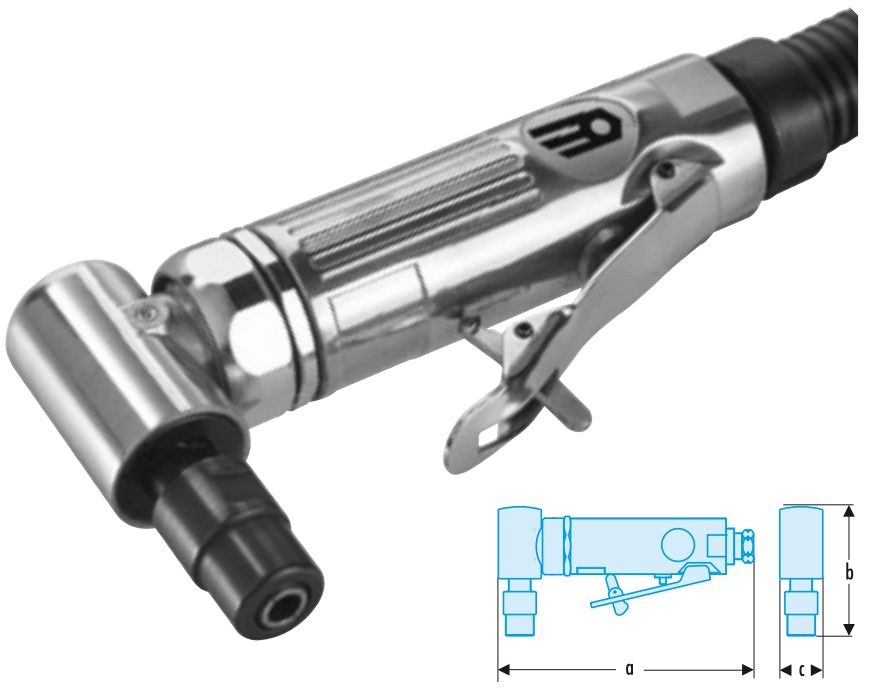
Reference	V.445F	V.345F	V.347
Free speed (rpm)	20 000	22 000	18 000
Collet or shaft diameter (mm)	6	6	6
Weight (kg)	0,96	0,6	0,7
Length (mm)	207	138	158
Average air consumption (l/min)	180	113	300
Air inlet thread (inches)	1/4"	1/4"	1/4"
Ø int. air hose (mm)	10	10	10
Working pressure (bar)	6,2	6,2	6,2

Angle grinders - 6 mm collet

Angle grinder - 6 mm collet

V.252

- Angle grinder for grinding wheels with shank.
- For cutting and cleaning.
- Compact motor with sturdy blades.
- Compact angled head for difficult-to-reach places.
- Exhaust air duct with integral air supply pipe.
- Supplied with 6 mm collet and 2 open-end wrenches.
- Air connection (female thread) : 1/4".
- Recommended air hose (∅ int.) : 8 mm.
- Recommended fitting (thread - ∅ int.) : 1/4"-6.
- Pressure : 6.3 bar.
- Speed of rotation : 18,000 rpm.
- Average air consumption : 300 l/min.
- Noise level (dB(A)) : 83.
- Vibration level : < 2.5 m/s².
- Collet : 6 mm.



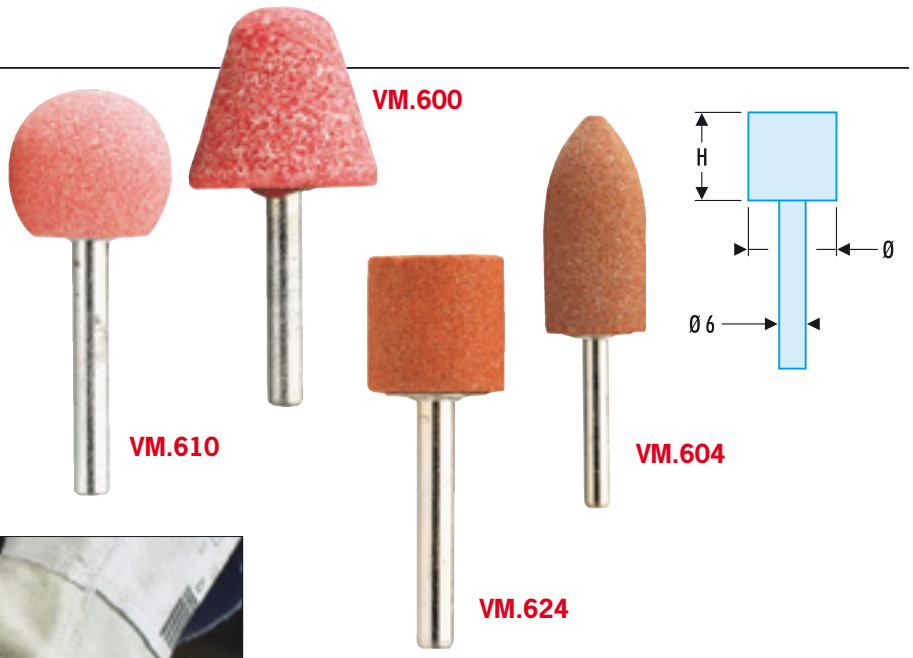
	a mm	b mm	c mm	g
V.347	158	78	27	400

Grinding wheels on 6 mm dia. shank

Grinding wheels on ∅ 6 mm shank

- Specifications to ISO 2933.

	Type	∅ x H mm	Free speed rev/min
VM.600	A.4	30 x 32	17000
VM.602	A.5	30 x 20	30000
VM.604	A.11	28 x 45	18000
VM.606	A.12	20 x 30	30000
VM.610	A.25	25	25000
VM.612	A.26	17	54000
VM.624	W.206	32 x 21	30000



Disc sanders

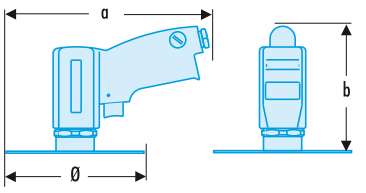
Pistol-grip 127 mm rotary disc sander

V.401F

- Speed controller.
- Speed of rotation 16,000 rpm.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Average air consumption : 120 l/min.

	a mm	b mm	kg
V.401F	112	126	1,2

	Description
V.401F1	2 pads - 76 and 127 mm dia.



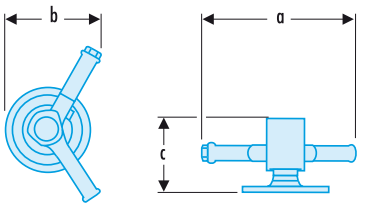
Pistol-grip 178 mm rotary disc sander

V.410F

- Two-handed grip.
- Air exhaust in the handle.
- Speed of rotation 4,200 rpm.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Average air consumption : 130 l/min.

	a mm	b mm	kg
V.410F	198	190	2,6

	Description
V.410FA1	Pad



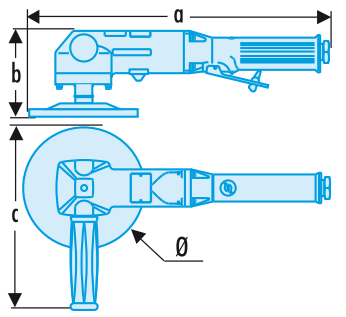
Disc sander specifications

Reference	V.401F	V.410F	V.411
Pad dimensions (mm)	127	178	175
Free speed (rpm)	18 000	5 000	4 500
Weight (kg)	1,2	2,0	1,8
Length (mm)	160	203	320
Average air consumption (l/min)	450	170	490
Air inlet thread (inches)	1/4	1/4"	1/4"
Ø int. air hose (mm)	10	10	8
Working pressure (bar)	6,2	6,2	6,2

Angle sander ∅ 178 mm

V.411

- Surface roughing and cleaning.
- Designed for use with 178 mm dia. fibre disc.
- Powerful, 4-blade motor.
- Supplied with handle and one 178 mm dia. fibre pad.
- Air connection (female thread) : 1/4".
- Recommended air hose (∅ int.) : 8 mm.
- Recommended fitting (thread - ∅ int.) : 1/4"-6.
- Pressure : 6.3 bar.
- Speed of rotation : 4,500 rpm.
- Average air consumption : 490 l/min.
- Noise level (dB(A)) : 86.9.
- Vibration level : < 2.5 m/s².
- Pad size : 178 mm.



	a mm	b mm	c mm	Ø mm	⚖ kg
V.411	320	103	235	175	1,8

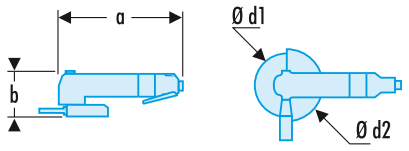
	Description
V.411A1	178 mm dia. pad

Angle grinders/cutters

Angle grinder/cutter - 100 mm dia.

V.462F

- Side handle.
- Speed of rotation : 12,000 rpm.
- Working pressure : 6.2 bars.
- Average air consumption : 120 l/min.
- Air inlet thread : 1/4".
- Power : 0.8 kW.
- Shaft thread 3/8"



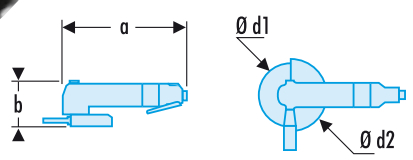
	Ø d1 mm	Ø d2 mm	a mm	b mm	⚖ kg
V.462F	100	110	220	85	1,6

	Description
V.460A	deburring wheel 100 mm dia.

Angle grinder/cutter - 127 mm dia.

V.472F

- Side handle.
- Speed of rotation : 12,000 rpm.
- Working pressure : 6.2 bars.
- Average air consumption : 120 l/min.
- Air inlet thread : 1/4".
- Power : 0.8 kW.
- Shaft thread 3/8"



	Ø d1 mm	Ø d2 mm	a mm	b mm	⚖ kg
V.472F	125	138	220	85	1,86

	Description
V.471A1	Deburring wheel Ø 127 mm
V.471A2	Cutting wheel Ø 127 mm

Composite angle grinder/cutter ∅ 125 mm

V.582F

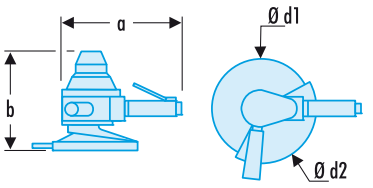
- 1 HP motor for difficult work.
- Air exhaust in handle.
- Free speed : 11,000 rpm.
- Collet or shaft diameter : M14 x 2.
- Average air consumption : 180 l/min.
- Air inlet thread : 1/4".
- ∅ int.air hose : 10 mm.

	a mm	b mm	c mm	⚖ kg
V.582F	225	108	130	1,96

Vertical angle grinder/cutter ∅ 180 mm

V.482

- Built-in wheel guard.
- Automatically locking control lever.
- Speed/power controller.
- Free speed : 6,000 rpm.
- Motor power rating : 1.5 kW.
- Collet or shaft diameter : 5/8" - 11.
- Average air consumption : 168 l/min.
- Air inlet thread : 1/2".
- ∅ int.air hose : 19 mm.



	Ø d1 mm	Ø d2 mm	a mm	b mm	⚖ kg
V.482	180	204	155	170	4

	Description
V.480A1	Deburring wheel Ø 180 mm
V.480A2	Cutting wheel Ø 180 mm

Grinder/cutter specifications

Reference	V.462F	V.472F	V.582F	V.482	V.492
Free speed (rpm)	12 000	12 000	12 000	6 000	6 000
Dimension	100	125	125	180	230
Weight (kg)	1,8	1,9	1,9	4	4
Length (mm)	229	229	230	155	155
Average air consumption (l/min)	170	170	150	168	168
Air inlet thread (inches)	1/4"	1/4"	1/4"	1/2"	1/2"
Ø int. air hose (mm)	10	10	10	19	19
Working pressure (bar)	6,2	6,2	6,2	6,2	6,2

Vertical grinder/cutter ∅ 230 mm

V.492

- Built-in wheel guard.
- Automatically locking control lever.
- Speed/power controller.
- Free speed : 6,000 rpm.
- Motor power rating : 1.5 kW.
- Collet or shaft diameter : 5/8" - 11.
- Average air consumption : 168 l/min.
- Air inlet thread : 1/2".
- ∅ int.air hose : 19 mm.

	Ø d1 mm	Ø d2 mm	a mm	b mm	kg
V.492	230	254	155	170	4

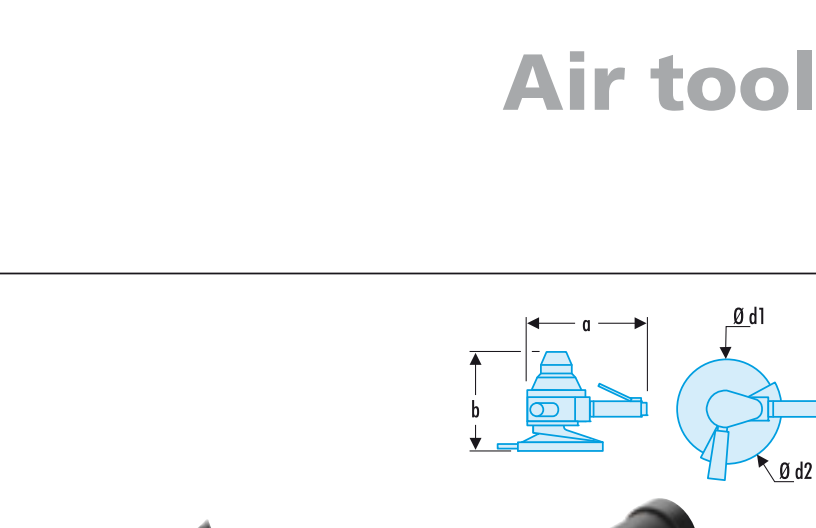
	Description
V.490A1	Deburring wheel Ø 230 mm
V.490A2	Cutting wheel Ø 230 mm

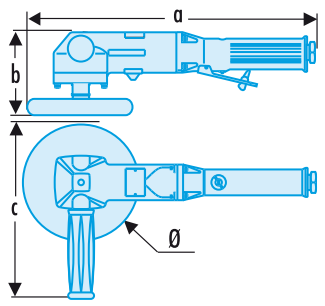
Angle polisher

Angle polisher 178 mm.

V.902

- Buffing and polishing.
- Heavy-duty machine.
- Supplied with 1 handle, 1 pad 178 mm dia, 1 195 mm polishing pad.
- Air connection (female thread) : 1/4".
- Recommended air hose (∅ int.) : 8 mm.
- Recommended fitting (thread - ∅ int.) : 1/4"-6.
- Pressure : 6.3 bar.
- Speed of rotation : 2,000 rpm.
- Average air consumption : 470 l/min.
- Noise level (dB(A)) : 82.4.
- Vibration level : < 2.5 m/s².
- Tray : 178 mm.





	a mm	b mm	c mm	Ø mm	kg
V.902	320	103	230	178	1,8

	Description
V.902A1	178 mm pad
V.902A2	195 mm polishing pad.
V.902A3	160 mm foam pad

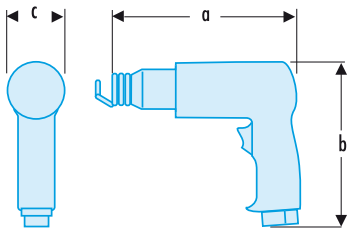
Power chisels

Power chisel with hexagonal shank

V.320FH

- Built-in power regulator.
- Impact rate 3,000/min.
- Working pressure : 6.2 bars.
- Average air consumption : 280 l/min.
- Air inlet thread : 1/4".
- Power : 0.8 kW.
- Piston stroke : 67 mm.

	a mm	b mm	⚖ kg
V.320FH	171	160	1,58



	Description
V.320HA1	Straight chisel
V.320HA2	Punch (hexagonal shank)
V.320HA3	Weld point cutter (hexagonal shank)
V.320HA4	Sheet metal cutter (hexagonal shank)
V.320HA5	Double edge sheet-metal cutter (hexagonal shank)
V.320RRN1	Spring

Power chisel set

V.321

- Comprising :

- 1 Sheet-metal cutter.
- 1 double edge sheet-metal cutter.
- 1 weld point cutter.
- 1 straight chisel.
- 1 punch.

	Power chisel	⚖ kg
V.321AH	V.320FH	6,3

Saws

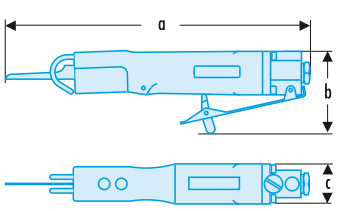
Sabre saw

V.770F

- Seamless straight and curved cutting.
- Suitable for flat and convex surfaces.
- Adjustable blade guide.
- Supplied with 3 x 10 teeth/cm blades and 3 x 12 teeth/cm blades.
- Strokes per minute : 10,000.
- Average air consumption 220 l/min.
- Air inlet thread : 1/4".
- ∅ int. air hose : 10 mm.

	a mm	b mm	c mm	⚖ kg
V.770F	229	75	36	0,7

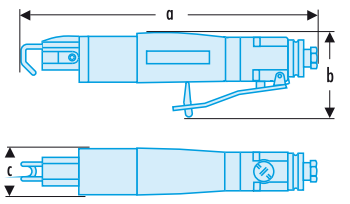
	Description
V.770F1	Set of 6 blades - fine (12 teeth//cm)
V.770F2	Set of 6 blades - standard (10 teeth/cm)



Super-duty sabre saw

V.775F

- Suitable for intensive use.
- Anti-vibration rubber handle.
- Air exhaust in handle.
- Supplied with 3 x 10 teeth/cm blades. and 3 x 12 teeth/cm blades.
- Strokes per minute : 5,750.
- Average air consumption : 720 l/min.
- Air inlet thread : 1/4".
- ∅ int. air hose : 10 mm.



	Description
V.770F1	Set of 6 blades - fine (12 teeth/cm)
V.770F2	Set of 6 blades - standard (10 teeth/cm)

Sabre saw

V.750A

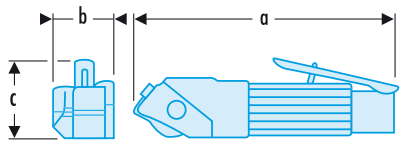
- For mid-panel straight cuts and wide curves in flat sections, double skins, welded sheet metal.
- Guide ensures precision cutting.
- Clean cut 1 mm wide.
- Cutting depth :

- 7.5 mm with 45 dia. blade.
- 10 mm with 50 dia. blade.

■ V.750RN1 : Maintenance kit

	a mm	b mm	c mm	kg
V.750A	245	56	75	1,4

	∅ mm	Thickness to cut mm
V.750A1	45	0,8
V.750A2	50	2,0
V.750A3	50	7/10



Saw specifications

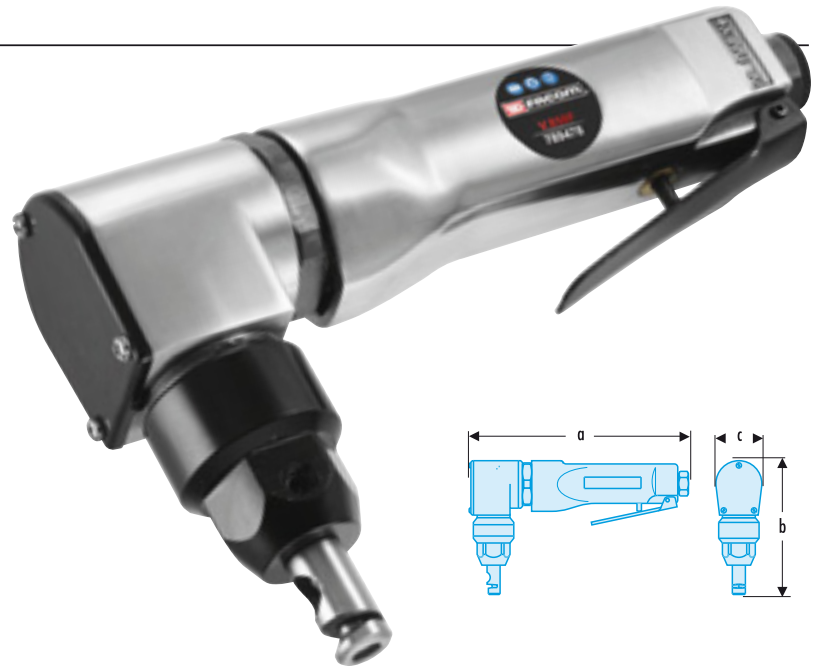
Reference	V.770F	V.775F	V.750A
Free speed (rpm)	...	...	3 000
Weight (kg)	0,6	0,7	1,4
Length (mm)	229	236	245
Average air consumption (l/min)	220	720	...
Air inlet thread (inches)	1/4"	1/4"	1/4"
∅ int. air hose (mm)	10	10	10
Working pressure (bar)	6,2	6,2	6,2

Other

Nibbler

V.850F

- Lever throttle for precise control and low-speed start.
- Can produce rounded edges up to 6.5 mm radius.
- Max. thickness 1.2 mm - speed 1.8 m/min.
- Strokes per minute : 4,300.
- Average air consumption : 110 l/min.
- Air inlet thread : 1/4".
- Ø int. air hose : 10 mm.



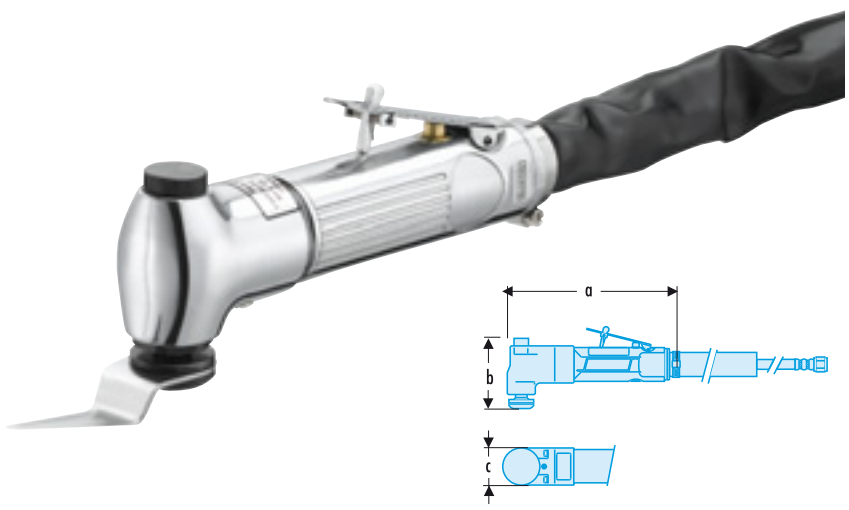
	a mm	b mm	c mm	kg
V.850F	179	118	40,5	0,9

	Description
V.850FKR2	Kit

Windscreen cutter

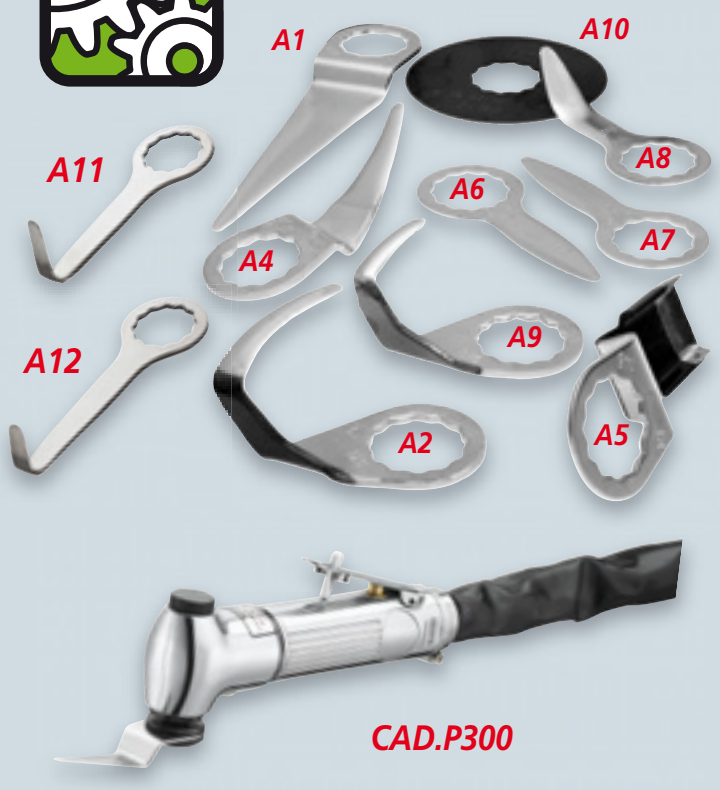
CAD.P300F

- Faster windscreen replacement.
- Safety trigger.
- Air exhaust in handle.
- 3° pendular motion.
- Supplied with instructions, without blades.
- Strokes per minute : 20,000.
- Average air consumption : 120 l/min.
- Air inlet thread : 1/4".
- Ø int. air hose : 10 mm.



	a mm	b mm	c mm	kg
CAD.P300F	209	85	45	1,21

Windscreen cutters



Blade*	Description
CAD.P300A1	Long flat blade 90 mm
CAD.P300A2	Hook blade 36 mm
CAD.P300A4	Curved blade 30 mm
CAD.P300A5	Scraper blade 8 mm
CAD.P300A6	Straight blade 35 mm
CAD.P300A7	Thin straight blade 35 mm
CAD.P300A8	Straight angled blade 35 mm
CAD.P300A9	Hook blade 24 mm
CAD.P300A10	Disc 60 mm
CAD.P300A11	Long angled blade
CAD.P300A12	Long angled blade

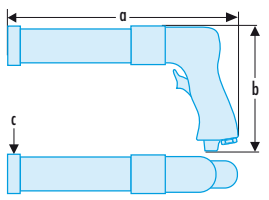
* Each blade reference corresponds to a single blade

Specifications	CAD.P300
Oscillations per minute	20 000
Weight (kg)	1,21
Length (mm)	208
Average air consumption (l/min)	120
Air inlet thread (inches)	1/4
d int. air hose (mm)	10
Working pressure (bar)	6,2

Caulking gun - 50 x 215 mm cartridge

V.801

- For applying silicon, mastics, adhesives, etc.
- Variable flow.
- Automatic pressure release halting flow of mastic.
- Air connection (female thread) : 1/4".
- Recommended air hose (Ø int.) : 10 mm.
- Recommended fitting (thread - Ø int.) : 1/4"-8.
- Pressure 6.2 bar.
- Noise level 70.
- Vibration level : < 2.5 m/s².
- Standard cartridge : 50 x 215 mm.



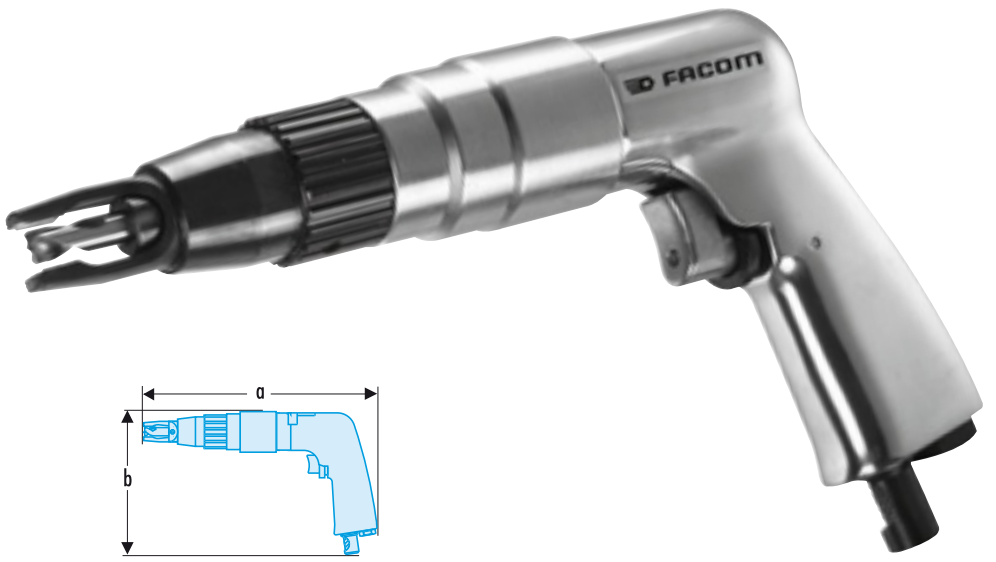
	a mm	b mm	c mm	kg
V.801F	305	168	62	1,3

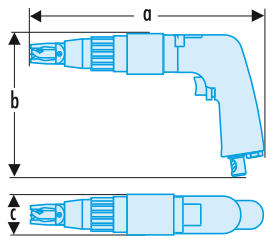
Spot weld remover

V.781

- Air connection (female thread) : 1/4".
- Recommended air hose (Ø int.) : 8 mm.
- Recommended fitting (thread - Ø int.) : 1/4"-6.
- Pressure : 6.3 bar.
- Speed of rotation : 1,800 rpm.
- Average air consumption : 460 l/min.
- Noise level (dB(A)) : 74.1.
- Vibration level : < 2.5m/s².
- Milling cutter diameter : 8 mm.
- For accurate removal of spot welds.
- Caution : not to be used with a stop.
- Avoids damage to the second layer of metal.
- Also takes 8.2 mm milling cutters.
- Supplied with 1 x 8 mm milling cutter.
- Each milling reference corresponds to a single milling cutter.

Minimum order per reference = 5.





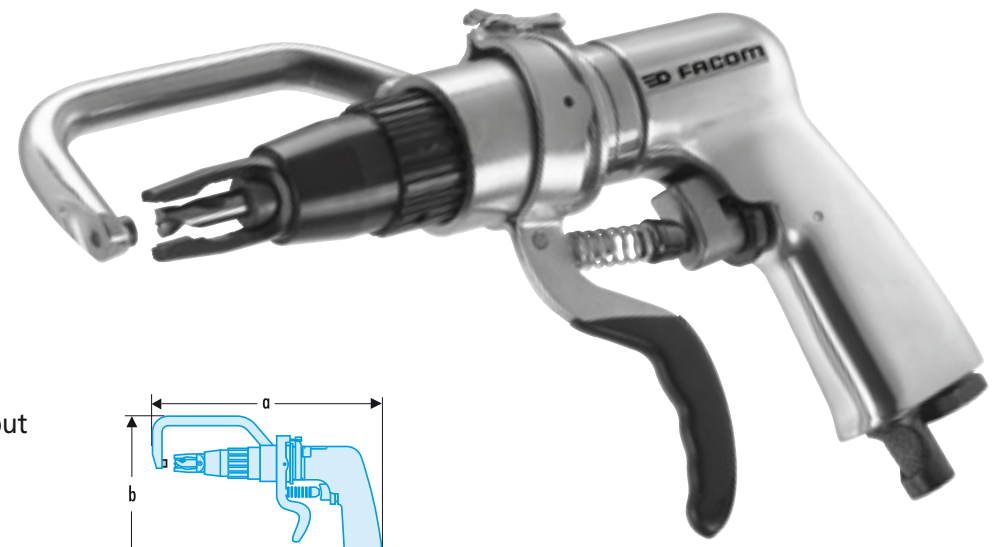
	a mm	b mm	c mm	kg
V.781	242	160	46	1,35

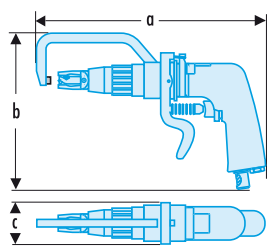
	Description
V.781A1	Milling cutter 8 mm

Spot weld remover with stop

V.781B

- Air connection (female thread) : 1/4".
- Recommended air hose (Ø int.) : 8 mm.
- Recommended fitting (thread - Ø int.) : 1/4"-6.
- Pressure : 6.3 bar.
- Speed of rotation : 1,800 rpm.
- Average air consumption : 460 l/min.
- Noise level (dB(A)) : 74; 1.
- Vibration level : < 2.5 m/s².
- Milling cutter diameter : 8 mm.
- For accurate removal of spot welds.
- Fitted with a stop to hold the workpiece in position without slipping.
- Also takes 8.2 mm milling cutters.
- Supplied with 1 milling cutter. Ø 8 mm.
- Each milling reference corresponds to a single milling cutter.
- Minimum order per reference = 5.



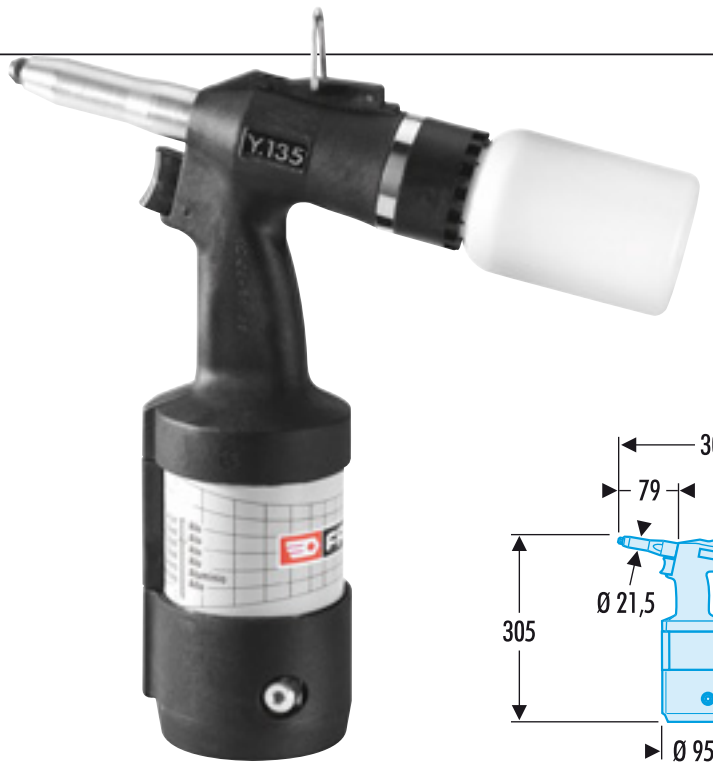


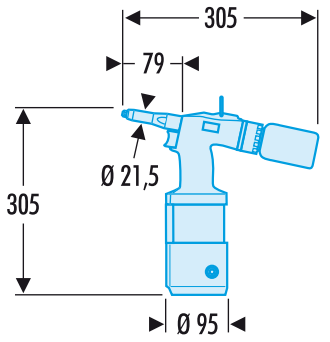
	a mm	b mm	c mm	kg
V.781B	270	198	53	1,6

	Description
V.781A1	Milling cutter 8 mm

Suction riveter

Y.135





- Capacity : Ø 5 mm in any material.
- Traction travel 17 mm.
- Force 1,100N.
- Adjustable pin-suction.
- Spent-nail holder.
- Swivel air-connection fits under or to the side of the gun.
- Supplied with nozzles for 2 - 3 - 4 and 5 mm diameter rivets.

⚖ : 2.47 kg.

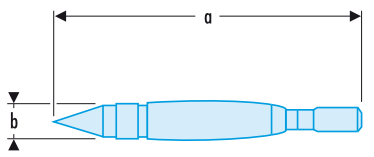
Engraving pen

V.820

- With an impact rate of 600 cycles/sec, the tungsten carbide tip will engrave hard materials such as treated steel, stone, glass or ceramic.
- Air control ring.
- Complete with 1.5 m hose, 1/4" threaded male fitting and standard tip.
- Number of cycles : 36,000 impacts per min.
- No-load air consumption : 0.03 m³/min.
- Ø int. air hose : 5 mm.
- Air connection (female thread) : 1/4".
- Working pressure : 5-7 bars.
- Noise level : 78.4 dBA.

	a x b mm	⚖ g
V.820	160 x 17	360

	Description
V.820A1	Standard tip
V.820A2	Fine tip



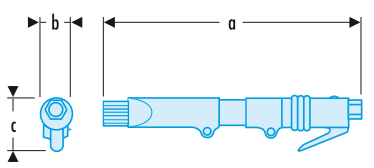
Rust remover

V.352

- Cleans, derusts and strips metal surfaces.
- Reaches into cracks and grooves.
- Complete with needles Ø 2 mm.
- Impact rate : 4,200 per minute.
- Average air consumption : 0.135 m³/min.
- Ø int. air hose : 10 mm.
- Air connection (female thread) : 3/8".
- Recommended working pressure : 5-7 bars.

	a mm	b mm	c mm	⚖ kg
V.352	360	36	75	1,53

	Description
V.352A1	Set of spare needles for rust remover Ø 2 mm
V.352A1D3	Set of spare needles Ø 3 mm
V.352-137D3	Comb for needle Ø 3 mm

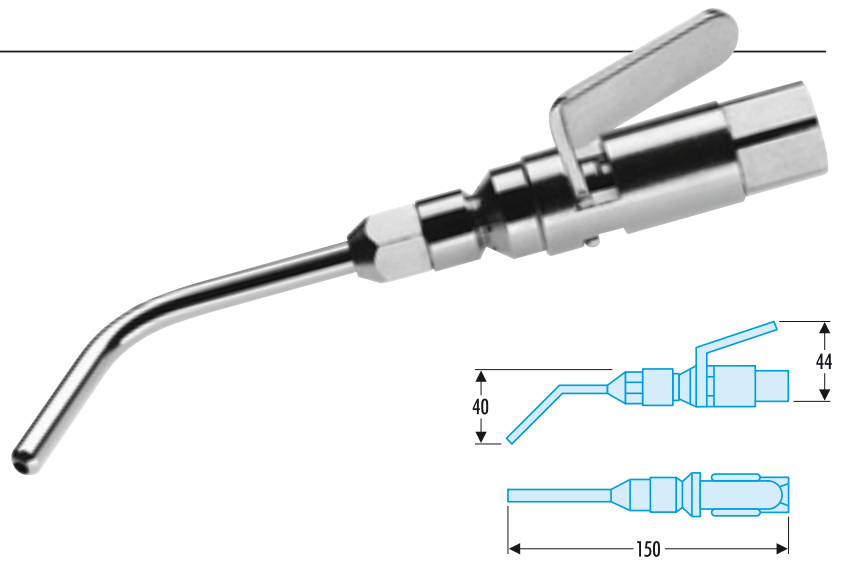


Air jet

V.999A

- Air screen prevents dust blowing back towards operator.
- Supplied with nozzle V.999A10.
- Air connection 1/4" (female thread).
- ∅ 8 mm pipe.
- Air consumption : 0.53 m³/min.
- Jet pressure : 2 bar.

⚖ : 170 g.



	Description
V.999A10	Angled nozzle 100 mm.
V.999A20	Angled nozzle 200 mm.
V.999A30	Straight nozzle 300 mm

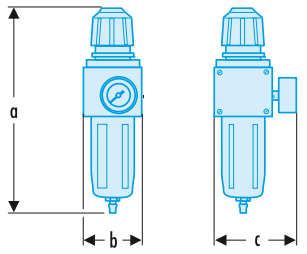
Air supply

Filters regulators lubricators

3/8" filter-regulator

N.555D

- Similar specification to N.558D, but without the lubrication tank.
- Designed to deliver non-lubricated air for air jets, paint spraying, etc.



	a x b x c mm	⚖ kg
N.555D	258 x 109 x 65	0,84

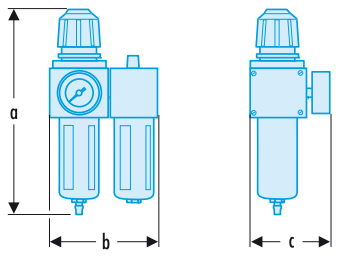
1/4" filter-regulator-lubricator

N.553D

- Monobloc regulator/filter with sintered bronze filter element.
- Filtration to 40 microns.
- Semi-automatic purge.
- Oil-mist lubricator.
- Max. primary pressure :

14 bars at 20°C, 8 bars at 50°C with protective tank,
12 bars at 20°C without protective tank.

- Secondary pressure range : 0.5 to 8.4 bars.
- Allowable temperature range : - 25°C to + 50°C.
- Recommended oil : Engler viscosity at 50°C : 2 to 2.5.



	Thread "	a x b x c mm	Flow (l/min)	Bowl capacity (cl)	⚖ g
N.553D	1/4	188 x 80 x 74	1400	6	440

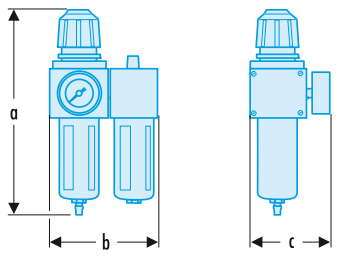
3/8" filter-regulator-lubricator

N.558C

- Monobloc regulator/filter with sintered bronze filter element.
- Filtration to 40 microns.
- Semi-automatic purge.
- Oil-mist lubricator.
- Max. primary pressure :

14 bars at 20°C, 8 bars at 50°C with protective tank.
12 bars at 20°C without protective tank.

- Secondary pressure range : 0.5 to 8.4 bars.
- Allowable temperature range : - 25°C to + 50°C.
- Recommended oil : Engler viscosity at 50°C : 2 to 2.5.

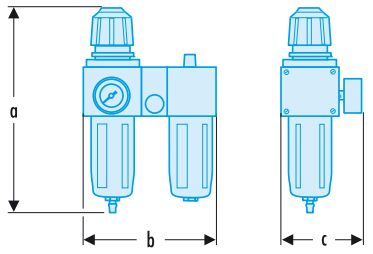


	Thread "	a x b x c mm	Flow (l/min)	Bowl capacity (cl)	⚖ kg
N.558D	3/8	231 x 120 x 93	2800	16	1,701

3/8" filter-regulator-lubricator + dry air

N.560D

• Similar specification to N.558D, but with a selector valve for dry air (air jet, paint spraying, etc.) or lubricated air.

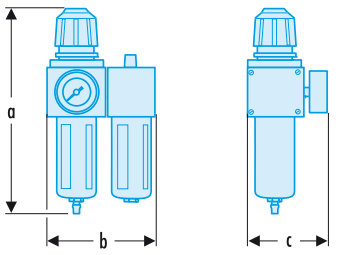


	Thread "	a x b x c mm	Flow (l/min)	Bowl capacity (cl)	kg
N.560D	3/8	143 x 145 x 93	2800	16	1,912

1/2" filter-regulator-lubricator

N.565

• Monobloc regulator/filter with sintered bronze filter element.
• Filtration to 40 microns.
• Semi-automatic purge.
• Oil-mist lubricator.
• Max. primary pressure :
14 bars at 20°C, 8 bars at 50°C with protective tank
12 bars at 20°C without protective tank
• Secondary pressure range : 0.5 to 8.4 bars.
• Allowable temperature range : - 25°C to + 50°C.
• Recommended oil : Engler viscosity at 50°C : 2 to 2.5.
• Lubricator priming flow rate : 100 l/min.



	Thread "	a x b x c mm	Flow (l/min)	Bowl capacity (cl)	kg
N.565D	1/2	231 x 120 x 93	2800	16	1,681

2 litres of lubricator oil

NS.557-04

• Engler viscosity 2 to 2.5 at 50°C.

Fittings

Fittings

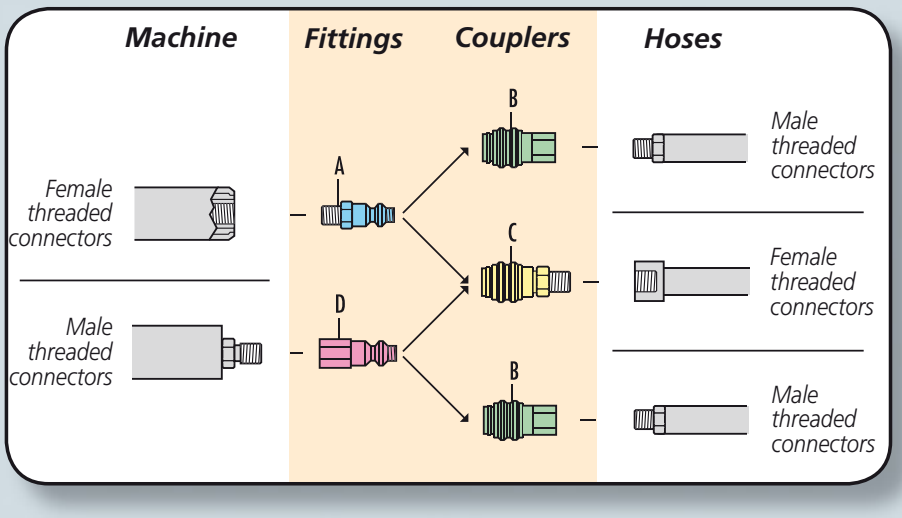
FACOM air tools can be used with a variety of fitting options offering useful connection flexibility.

When choosing your connector :

- *Check air inlet specification (from table for the relevant tool).*
- *Select connector type (A to D) from the diagram below.*

Threaded male connectors *Tapped female connectors*
Threaded male coupler *Tapped female coupler*

- *Fitting and coupler specifications are shown below :*



Quick connectors

• Select male and female connectors with the same bore and thread.
• A typical machine with a 1/4" thread and Ø 8 mm bore, would require a fitting NBA.103 or NBB.103 together with a coupler NBA.113 or NBB.113.

	Ø Crossing mm	Thread "
Tapped female coupler		
NBA.101	5,5	1/4
NBA.103	8,0	1/4
NBA.105	11,0	3/8
NBA.106	11,0	1/2
Threaded male connector		
NBB.101	5,5	1/4
NBB.103	8,0	1/4
NBB.105	11,0	3/8
NBB.106	11,0	1/2
Tapped female coupler		
NBA.111	5,5	1/4
NBA.112	5,5	3/8
NBA.113	8,0	1/4
NBA.114	8,0	3/8
NBA.115	11,0	3/8
NBA.116	11,0	1/2
Threaded male coupler		
NBB.111	5,5	1/4
NBB.112	5,5	3/8
NBB.113	8,0	1/4
NBB.114	8,0	3/8
NBB.115	11,0	3/8
NBB.116	11,0	1/2

Recoil extensions

• Coiled PVC hose fitted with a male threaded connector at each end.

	Ø Crossing mm	Ø Pipe mm	Length m	Thread "	g
N.637	3	4 x 6	4	1/4-3/8	220
N.638	5	8 x 10	10	1/4-3/8	645
N.640	8	10 x 12	8	1/4-3/8	700
N.642	8	10 x 12	8	3/8-3/8	795

Braided hoses

• Transparent PVC hose, polyester braided.
• Working temperature range -25 à +60° C.
• Supplied in 20 m rolls.

	Ø Pipe mm	Working pressure bars	Ties to use
NB.1	8 x 14	20	NB.11
NB.2	10 x 16	15	NB.12
NB.3	13 x 20	12	NB.13
NB.4	16 x 22	10	NB.14

Personal equipment, maintenance

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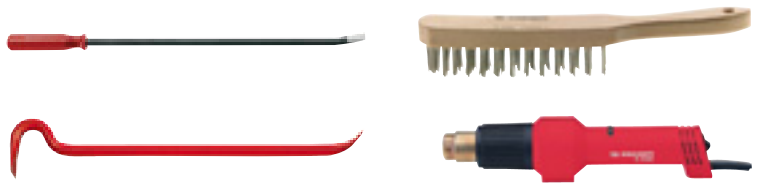
Safety glasses and goggles 603
Face masks 604
Gloves 604
Insulating mats 605

Miscellaneous maintenance equipment 605



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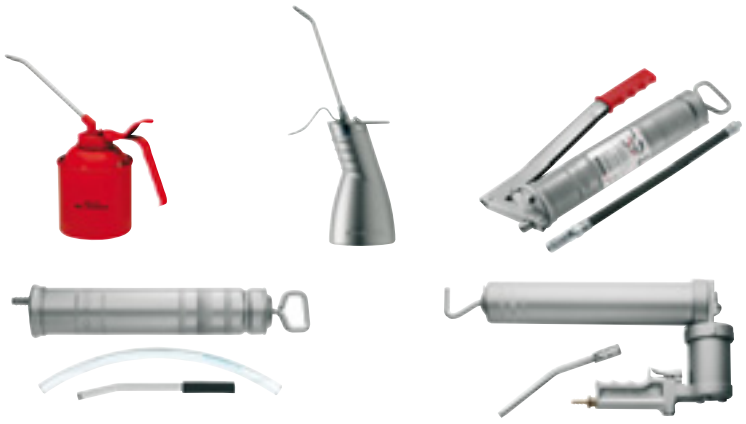

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Vices 618
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TEAM Facom overalls

FOR FACOM, COMFORT AND PROTECTION ARE OF PARAMOUNT CONCERN

Ergonomic - Prevents MSD*

- *Elastomer knee-pads for comfort and protection against knee bursitis (housemaid's or clergyman's knee).*

***MSD : Musculo-skeletal disorders.**

Polyamide-reinforced knees. Polyester cotton, guaranteed for 50 washes as 85°.

Knee pads can be removed during washing.

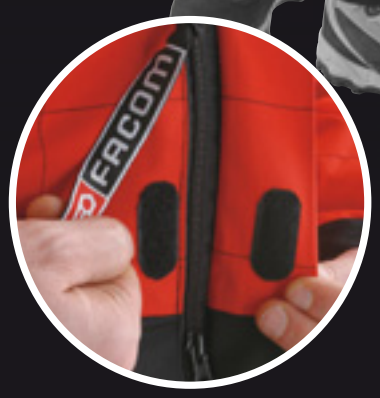
Strong and durable

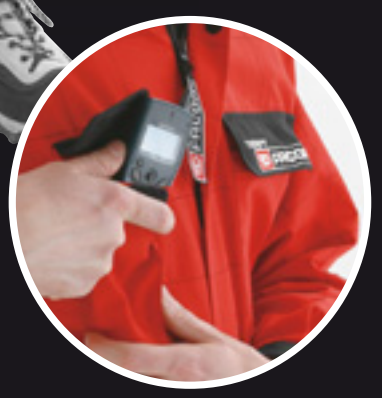
- *Flaps with strong, non-scratching Velcro strips. (No sharp points and cornerless seams for increased stitch-tear resistance.)*

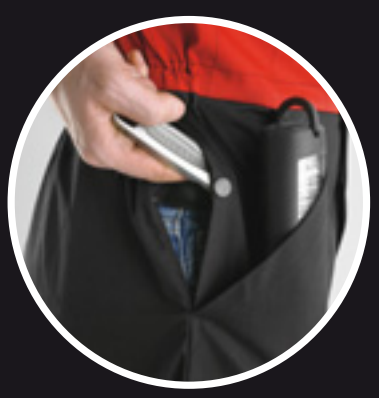
Soil resistant

Practical and comfortable

- *Two-way polyamide zip fastener (no scratching of bodywork).*
- *Pockets for mobile telephone and wallet.*
- *Integral self-adjusting belt (no dangerously hanging belt strap).*
- *Pants pocket opening.*
- *Gussets and self-adjusting belt giving complete freedom of movement.*







Protective overalls

COMB - "TEAM" OVERALLS

- Mechanics overalls with removable knee pads to prevent MSD*.
- Polyamide-reinforced knees.
- Black fabric on all exposed surfaces to keep the overalls looking neat and clean.
- Gussets and self-adjusting belt giving complete freedom of movement.
- 35 % cotton, 65 % polyester, washable at 85°C.

* MSD : Musculoskeletal disorders.

	Size	Chest size cm
COMBS	S	87 - 94
COMBM	M	95 - 102
COMBL	L	103 - 110
COMBXL	XL	111 - 118
COMBXXL	XXL	119 - 126

Safety glasses and goggles

Why wear eye protection ?

1) To protect against projections of solid particles (spectacle type), liquids or chemicals (mask type).
2) To protect against UV radiation.

Wear eye protection wherever there is a risk of exposure to particles, chemical products, fumes, splashing, dust, glass fibre, heat or metal shavings.
Protect your eyes : avoid damage.

It is recommended to wear safety goggles with side shields when operating machine tools, wood-working machinery or shredders.

Lens care

Regularly examine goggles and replace if any worn, broken or damaged parts are noted (stems, eyepieces, etc.).

Clean the lenses with warm soapy water. A microfibre cloth can be used to remove grease and dirt from the lenses without damage.

Safety glasses

BC.30VSE

▷ EN 166 - European directive EC/89/686.
- Treated against UV rays, fogging and scratching.
- Optical class 1, protection class 1.2.
- Adjustable and extendable arms.
- Soft case included.

⚖ : 75 g.

Safety goggles

BC.31VSE

▷ NF EN 166 - European directive EC/89/686.
- Protection for prescription glasses.
- Optical class 1, protection class 1.2.
- Synthetic, anti-UV clear lenses.
- Resistant to scratching and flying chips (Soft case included).

⚖ : 70 g.

Personal protection equipment

Wrap-around goggles

BC.5

▷ NF EN 166, NF EN 168.
• General-purpose eye protection.
• Essential when using a grinder, chisel, etc.
• Wrap-around design can accommodate spectacles.
⚖ : 82 g.

Safety glasses

BC.4

▷ NF EN 166.
• Essential for grinding, brushing or deburring.
⚖ : 38 g.

Face masks

Face masks

BC.1J20

▷ NF EN 149.
• Pack of 20 dust masks.
• Essential protection against fine sanding dust, etc.
⚖ : 226 g.

Gloves

Why wear gloves ?

1) To protect against mechanical hazards : abrasion, cut, tear and perforation-resistant gloves. (leather gloves BC.10, BC.109VSE and BC.110VSE).

2) To protect against chemical hazards : (latex gloves BC.80VSE and BC.91VSE).

3) To protect against electrical hazards : 500 to 1,000 volts (insulating gloves BC.VSE).

Overgloves

▷ European directive EC/89/686.
• Silicon leather giving mechanical protection.
• Worn over latex insulating gloves.
• Physical/mechanical classification 2, 1, 2, 1 to European standard EN 388.

	Cut	⚖ g
BC.109VSE	9 (B)	160
BC.110VSE	10 (C)	160

Insulating gloves

▷ EN 60903 - European directive EC/89/686.
• Natural latex, AZMC grade :
- R : resistant to acid, oil and ozone.
- C : resistant to very low temperatures.
• Supplied in an opaque anti-UV pouch.
• Length 360 mm.
⚖ : 150 g.

	Cut	Thickness mm	Class	Power supply V
BC.80VSE	9 (B)	0,5	00	500
BC.81VSE	10 (C)	0,5	00	500
BC.90VSE	9 (B)	1	0	1000
BC.91VSE	10 (C)	1	0	1000

Hide gloves

BC.10

• Hide gloves with 10 cm cuffs.
• Essential for handling sheet metal, using shears or a saw, and working with any sharp or rough object.
⚖ : 155 g.

Insulating mats

Insulating mats

▷ NF C 18.420.
• Rubber mat to insulate operator from any earthing points.
• Thickness 3.2 mm.
• Hardness 60 DIDC.

	Length x width m	⚖ kg
BC.20VSE	1 x 0,6	2,5
BC.21VSE	1 x 1,0	4,2

Miscellaneous maintenance equipment

Heat gun

E.2005

• Electronic temperature control 60 to 600°C.
• Force : 2000 W.
• Air supply : power supply.
• Air flow rate (2 speeds) : 300 and 500 l/min.
• VDE approved.
• Supplied with 2 nozzles : E.2002B1 and E.2002B3.
• ∅ 72 x 80 x 330 mm.

E.2002B1 : Distribution nozzle
(⚖ 58 g, 75 mm (L) x 75 mm (h) x 33.7 mm (∅)).
E.2002B2 : Cross-flow nozzle
(⚖ 56 g, 75 mm (L) x 80 mm (h) x 33.7 mm (∅)).
E.2002B3 : Reflector nozzle
(⚖ 32 g, 33 mm (L) x 60 mm (h) x 33.7 mm (∅)).
E.2002B4 : Concentrator nozzle
(⚖ 30 g, 20 mm (∅x 52 mm (h) x 33.7 mm (∅)).
⚖ : 770 g.

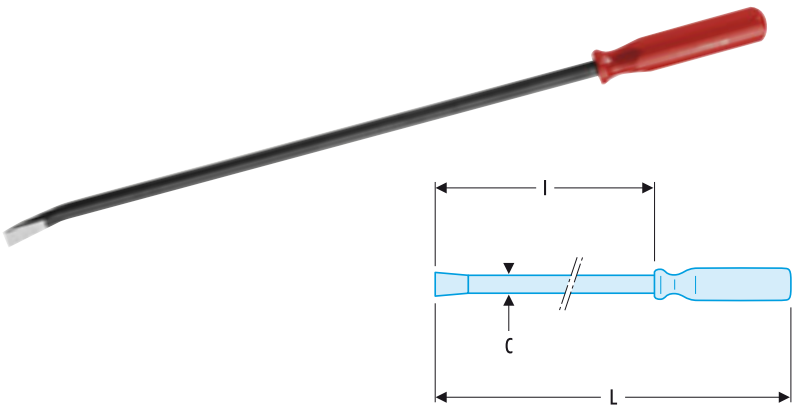
Power levers

D.3 Power levers

- Sturdy blade minimizing lever spring effect.
- Dimensions 670 x 145 x 40 mm.

⚖ : 1.648 kg.

	L mm	l mm	C"	⚖ kg
D.3-7	292	165	3/8	0,275
D.3-12	422	305	3/8	0,345
D.3-18	635	460	1/2	0,81
D.3-24	787	610	1/2	1,03
D.3-30	915	740	5/8	1,71



Set of 3 power levers

D.3J3

- Sturdy blade minimizing lever spring effect.
- Many uses : suspension, running gear, bodywork, etc.
- Presented on a blister tray.
- Set comprising one D.3-7, one D.3-12 and one D.3-18.
- Dimensions 670 x 145 x 40 mm.

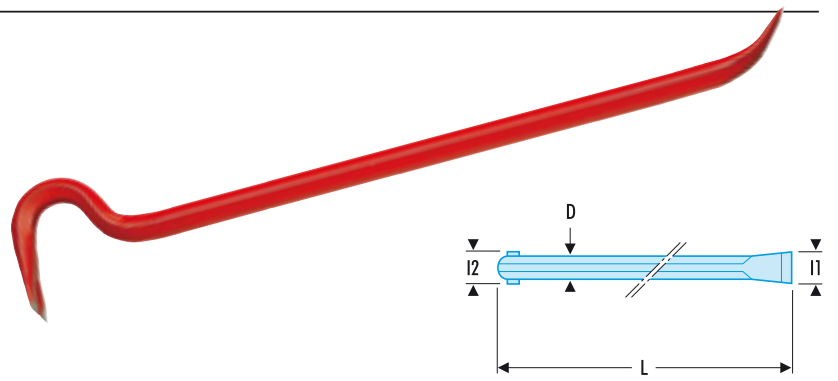
⚖ : 1.648 kg.

Wrecking bars

1260 Wrecking bars

- Forged, one flat end and one nail-claw, hardened to 45 HRc.
- Finished in red, polished and varnished tips.

	l1 mm	l2 mm	L mm	D mm	⚖ kg
1260.50	33	28	495	18	0,92
1260.70	39	35	710	23	1,14

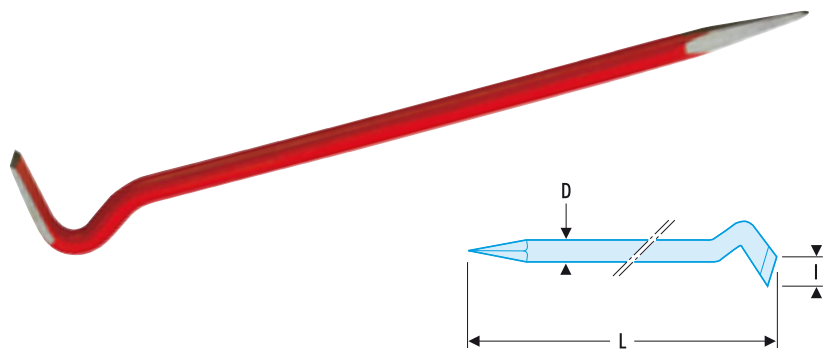


Crowbars

268 Round crowbars with crook beak

- Forged, point at one end and a wide, thin flat at the other, hardened to 45 HRc.
- Finished in red, polished and varnished tips.

	L mm	D mm	l mm	⚖ kg
268.3	450	16	32	0,67
268.4	790	20	32	1,97
269	400	18	27	0,59



Steel wire brush

270A.MA

- 280 x 34 x 60 mm.

⚖ : 150 g.

Pipe wrenches

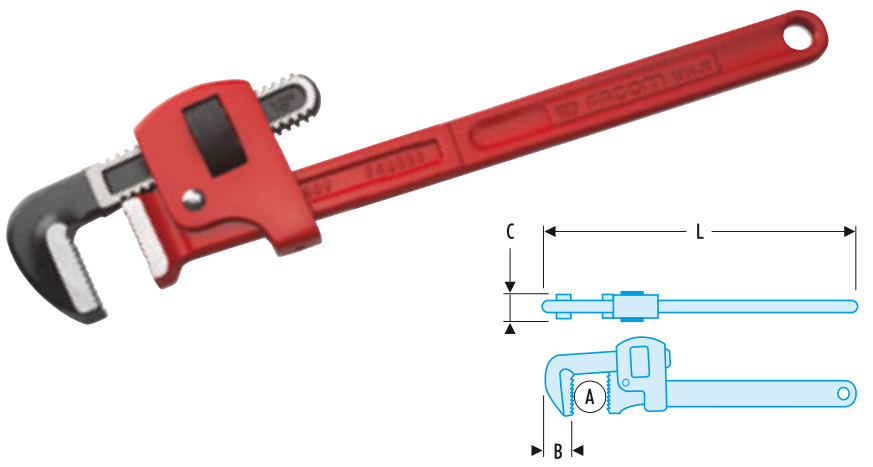
Pipe wrenches

- *A range of products geared to building maintenance as well as construction sites.*
- *Lightweight or special-jaw series to suit every application.*

131A Steel Stillson models

- Capacity : 0 to 102 mm ; 0 to 3 1/2".
- Very heavy duty tool with teeth hardened to 55 HRc.
- Precise adjustment from accurately machined worm gear. Sure handling.

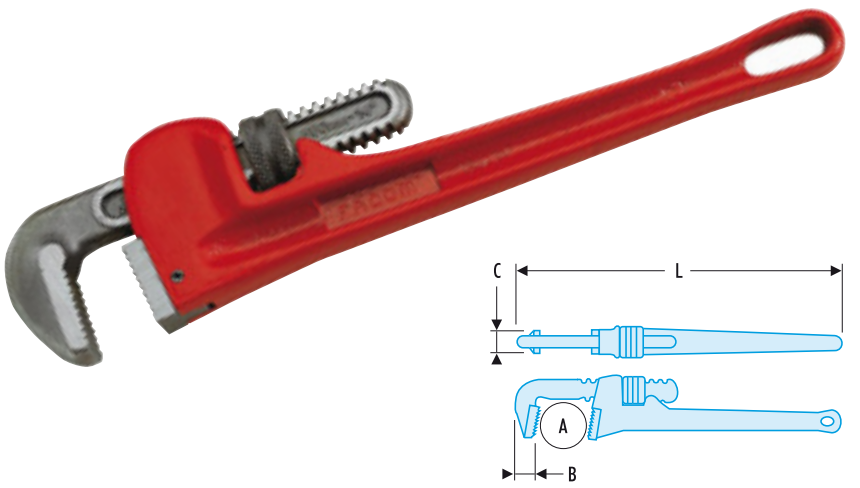
	A max		B	C	L		ΔΔ
	mm	"	mm	mm	mm	"	kg
131A.8	27	3/4	19,5	12,5	200	8	0,28
131A.10	34	1	25,0	16,0	250	10	0,6
131A.14	49	1" 1/2	29,5	21,0	350	14	1,06
131A.18	60	2	32,0	24,0	450	18	1,8
131A.24	76	2" 1/2	41,5	27,5	600	24	3
131A.36	102	3" 1/2	49,5	30,5	900	36	6



134A Cast-iron American model pipe wrenches

- Capacity : 0 to 140 mm ; 0 to 5".
- Cast-iron body.
- Interchangeable fixed jaw hardened to 55 HRc.
- Forged steel moving jaw.

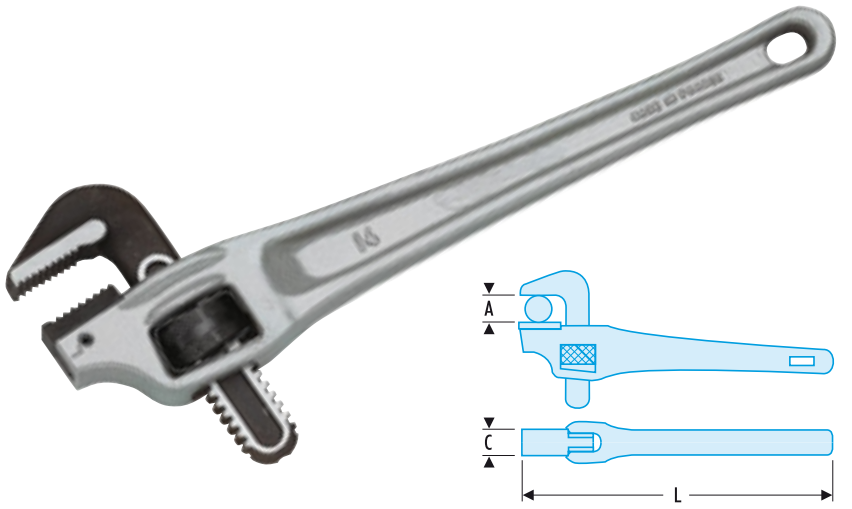
	A max		B	C	L		ΔΔ
	mm	"	mm	mm	mm	"	kg
134A.8	35	1	15	14,5	200	8	0,4
134A.10	54	1"1/2	20	17,5	250	10	0,78
134A.14	60	2	26	21,5	350	14	1,5
134A.18	76	2"1/2	29	26,0	450	18	2,4
134A.24	102	3"1/2	35	29,5	610	24	4
134A.36	140	5	35,5	43	920	36	9



135A Light alloy 90° offset American model pipe wrenches

- Capacity : 0 to 76 mm ; 0 to 2 1/2".
- Light alloy body.
- Forged steel jaws hardened to 55 HRc.

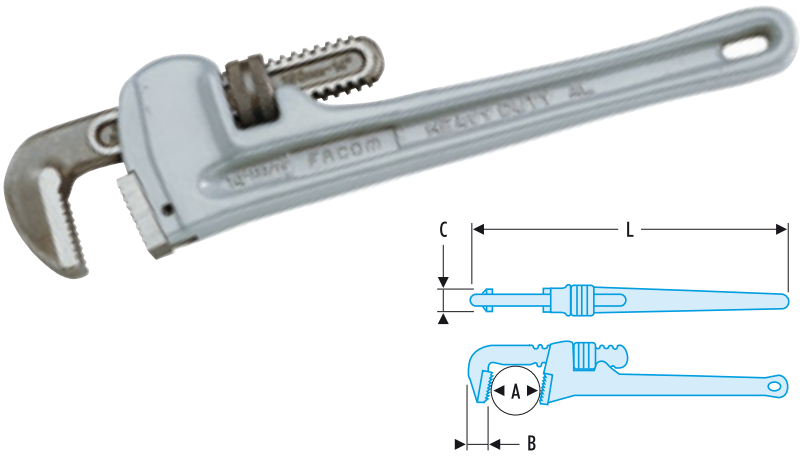
	A max		C	L		ΔΔ
	mm	"	mm	mm	"	kg
135A.14	49	1"1/2"	34	350	14	0,94
135A.18	60	2	39	450	39	1,48
135A.24	76	2"1/2"	47	600	47	2,45



133A Light alloy American model pipe wrenches

- Capacity : 0 to 140 mm ; 0 to 5".
- Performance similar to models 134A.

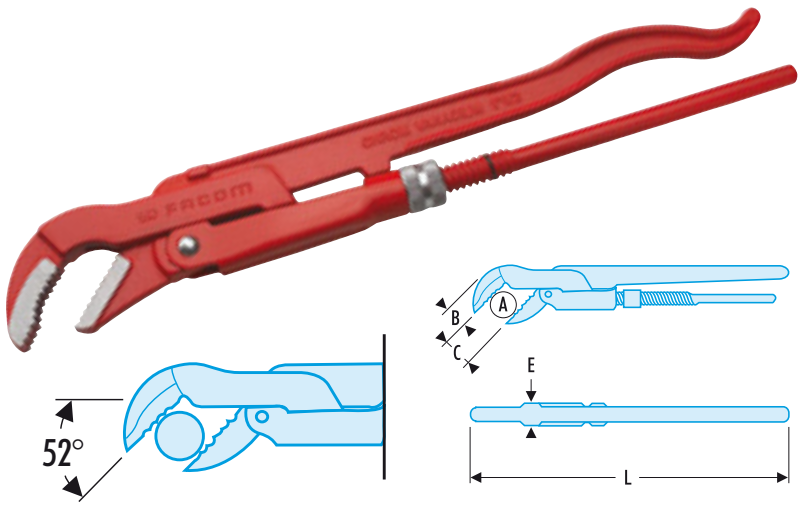
	A max		B	C	L		ΔΔ
	mm	"	mm	mm	mm	"	kg
133A.14	60	2	26	21,5	350	14	1
133A.18	76	2 "1/2"	30	26,0	450	18	1,56
133A.24	90	3	34	29,5	600	24	2,46
133A.36	140	5	44	32,0	900	36	5,18



120A 45° Swedish model pipe wrenches

▷ DIN 5234.
- Capacity : 10 to 60 mm ; 3/8" to 2".
- High-quality forged steel body.

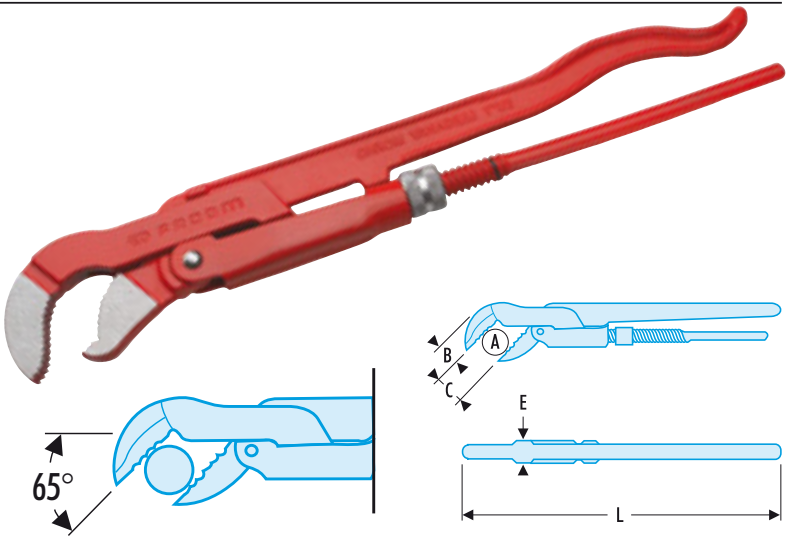
	A		C max	B	E	L	ΔΔ
	mm	"	mm	mm	mm	mm	kg
120A.1/2	21	1/2	29	16	8	240	0,42
120A.1'	34	1	45	19	10	320	0,84
120A.1'1/2	49	1"1/2"	59	25	13	430	1,45
120A.2'	60	2	76	32	17	560	2,4



121A 45° Swedish model pipe wrenches - S-shaped jaw

▷ DIN 5234.
- Capacity : 10 to 60 mm ; 3/8" to 2".
- High-quality forged steel body.
- Special jaw design grips pipe at three points.

	A		C max	B	E	L	ΔΔ
	mm	"	mm	mm	mm	mm	kg
121A.1'	34	1	48	22	14	345	0,85
121A.1'1/2	49	1" 1/2	55	26	19	450	1,55
121A.2'	60	2	68	39	21	600	2,3



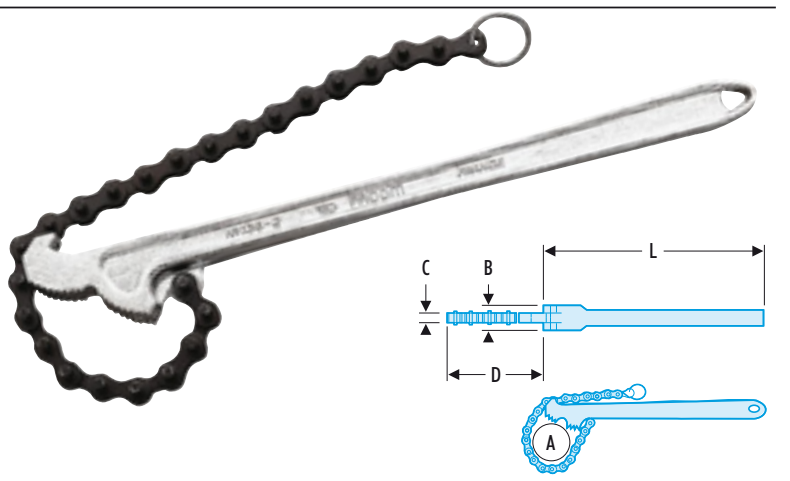
Chain and strap wrenches

136A Dual-purpose models

- Capacity : 60 to 140 mm.
- Hardened steel chain and body.
- Twin set of serrations grip in both directions.

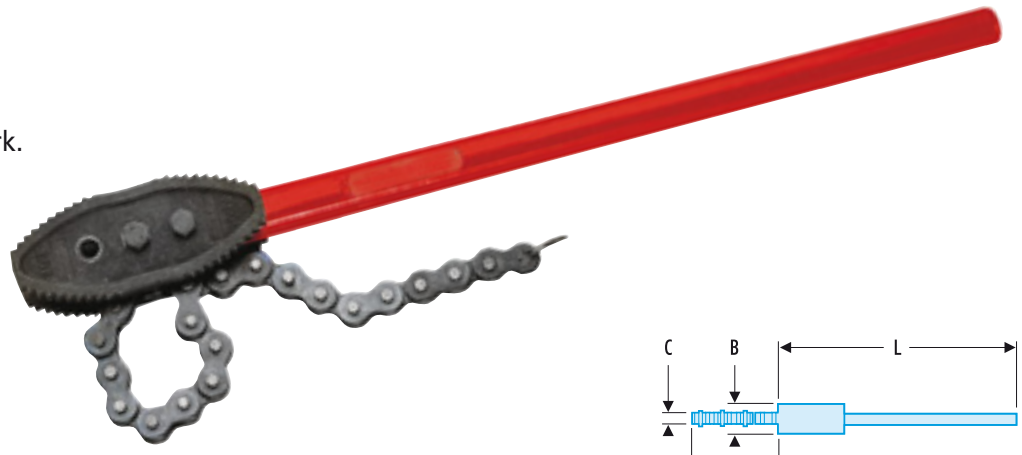
	A		D		B	C	L	ΔΔ
	mm	"	mm	"	mm	mm	mm	kg
136A.2	60-114	2-4"	460	18,5	20	7	360	1,04
136B.4	90-140	3-5"	600	24	30	10	600	3,1

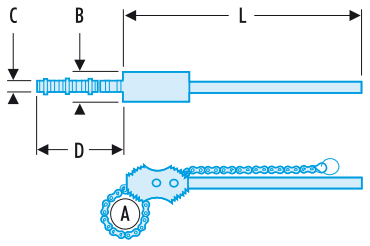
	Description
136.D2	Spare chain for wrench 136A.2
136A.C4	Spare chain for wrench 136B.4 and 136A.4



137A Heavy-duty models

- Capacity : 50 to 180 mm.
- Forged steel handle.
- Teeth hardened to 48 HRc.
- Plate treated against corrosion.
- Ratchet action in both directions for in-channel pipework.



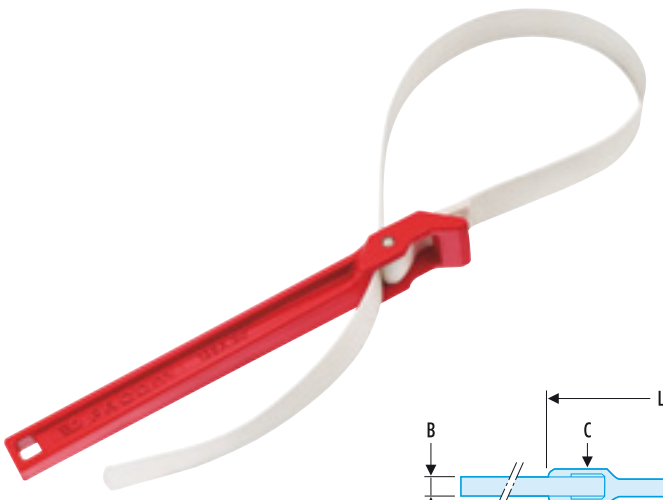


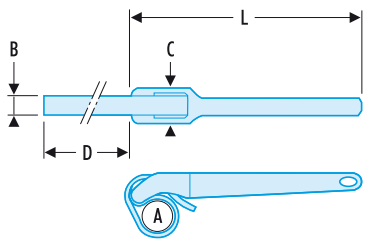
	A		D		B	C	L	⚖
	mm	"	mm	"	mm	mm	mm	kg
137A.2'1/2	50-90	2-39/16	415	16	55	20	550	4,5
137A.4'	60-130	23/8-51/8	560	24	60	20	910	8
137A.6'	80-180	33/16-71/8	690	27	80	32	1065	10,5

	Description
137A.C2'1/2	Spare chain for wrench 137A. 2'1/2
137A.C4'	Spare chain for heavy-duty wrench 137A.4'
137A.C6'	Spare chain for heavy-duty wrench 137A.6'

138A Nylon strap wrenches

- Capacity : 0 to 165 mm.
- Aluminium alloy body.
- Very strong nylon strap.





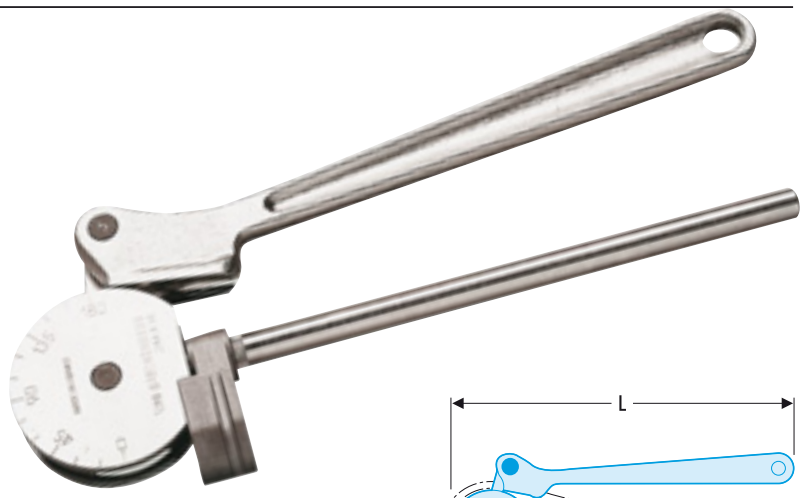
	A max		B	C	D	L	⚖
	mm	"	mm	mm	mm	mm	g
138A.17	60	2	30	42	450	315	280
138A.30	125	4	30	42	750	315	290
138A.48	165	6	30	42	1500	315	310

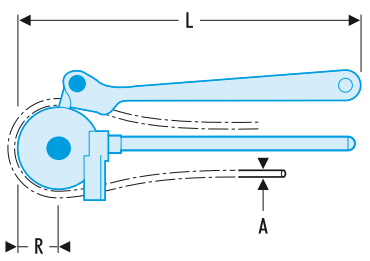
	Description
138.S17	Spare strap for 138A.17
138.S30	Spare strap for 138A.30
138.S48	Spare strap

Pipe benders

344A Pipe benders

- Capacity : 8 to 18 mm.
- For cold-drawn and annealed copper.
- Ideal for use on site without any other jig.
- Bend angle dial up to 180°.
- Fits inside a tool case.
- Forged and machined steel construction.





	R	A	A"	L	⚖
	mm	mm		mm	kg
344A.8	14	8	5/16	208	0,34
344A.10	23	10		245	0,7
344A.12	30	12		270	0,9
344A.14	42	14		352	1,8
344A.15	42	15		352	1,9
344A.16	54	16	5/8	380	2,64
344A.18	55	18		380	2,9

244A.J Pipe bending kits

• Set of bending tools for steel, annealed copper and aluminium pipes.
• Capacity :
- 244A.J1 : Pipes Ø 5 mm (3/16"), Ø 6 mm (1/4"), Ø 8 mm (5/16") and Ø 10 mm (3/8").
244.J2 Pipes Ø 6 mm (1/4"), Ø 8 mm (5/16"), Ø 10 mm (3/8"), Ø 12 mm (1/2").
• Complete with mini-cutter 238A.16 in a steel case.
• Dimensions : 405 x 165 x 55 mm.

	mm	kg
244A.J1	405 x 165 x 55	2,8
244.J2	405 x 165 x 55	3,2

Mini bender

244

• Capacity : For thin-wall steel Ø 4.75 to 8 mm.
• Annealed copper and aluminium Ø 4.75 to 12 mm.
• Can produce templates.
• Designed to take various formers and guides.
• Dimensions : 155 x 100 x 20 mm.
⚖ : 370 g.

244.A Former-and-guide assemblies

	Dimensions "	Dimensions mm	⚖ g
244.A5	3/16	5	160
244.A6	1/4	6	200
244.A8	5/16	8	250
244.A10	3/8	10	310
244.A12	1/2	12	365

Iron-pipe cutter

Iron-pipe cutter

338B.1

• Precision roller guides for right-angle cuts.
• Can take 3 cutting wheels for 1/3 turn cuts in confined spaces.
• Dimensions : 130 x 34 mm.
• Min. length 255 mm, max. 310 mm.
• Capacity : 10 to 42 mm, 1/8 to 1 1/8".
⚖ : 1.48 kg.
■ 338A.F5 : Set of 5 spare wheels.

Stainless-pipe cutter

337A.2

- Precision roller guides for right-angle cuts.
- Can take 3 cutting wheels for 1/3 turn cuts in confined spaces.
- Fitted with a wheel for cutting stainless steel pipes.
- Dimensions : 160 x 34 mm.
- Capacity : 21 to 60 mm, 1/2 to 2".
- Min. length 310 mm, max. 400 mm.

⚖ : 2.7 kg.

■ 337.F5 : Set of 5 spare wheels.

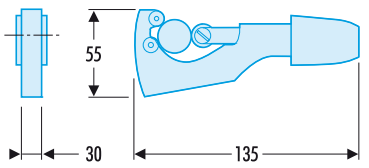
"Precision" stainless-pipe cutter

334.32NX

- Comfortable fast-action adjuster.
- Effective pipe guide. 90° cut.
- Grooves for cutting tight against flanges.
- Retractable rotating reamer Ø 3.2 mm.
- Integral spare stainless steel wheel and guide.
- For pipework Ø 6 - 32 mm; 1/4 - 1 1/4".

⚖ : 450 g.

■ 334.M5 : Set of 5 spare wheels.



Copper-pipe cutter

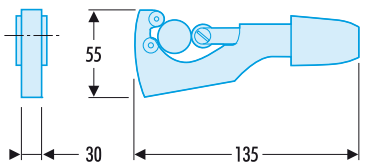
"Precision" copper-pipe cutter

334.32

- Comfortable fast-action adjuster.
- Effective pipe guide. 90° cut.
- Grooves for cutting tight against flanges.
- Retractable rotating reamer Ø 3.2 mm.
- Integral spare wheel.
- For pipes Ø 6 - 32 mm; 1/4 - 1 1/4".

⚖ : 450 g.

■ 238A.M5 : Set of 5 spare wheels.



238 Copper-pipe mini cutter

- Very compact.
- Can be used in situ.
- Minimal working radius.

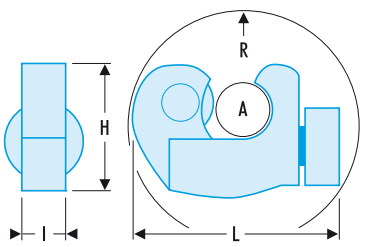
■ : 238A.16, grey.

- Set of 5 spare wheels.

■ : 238.16M5 for model 238A.16

■ : 238A.M5 for model 238.28.

■ : 238.M5 for old model 238.16.



	A		R	H	l	L	⚖
	mm	"	mm	mm	mm	mm	g
238B.16	3 - 16	1/8 - 5/8	38	35	21	55	120
238.28	6 - 28	1/4 - 11/8	50	50	26	80	205

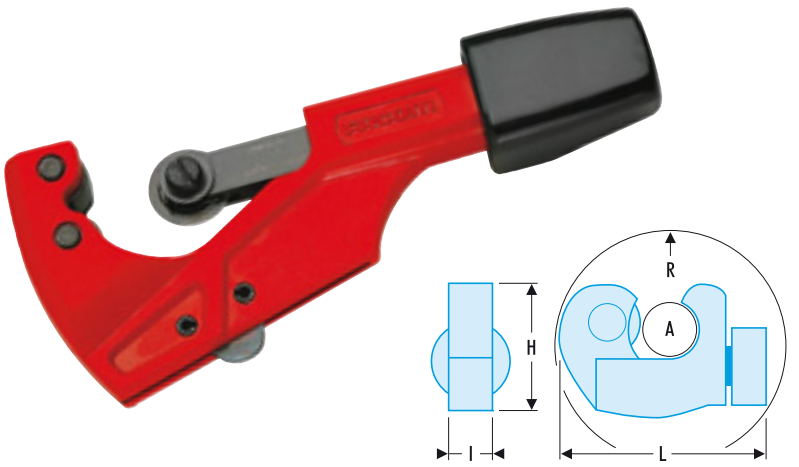
Copper-pipe cutter with reamer

238A.32

- Capacity : 3 to 32 mm ; 1/8 to 1 1/4".
- Precision pipe guide.
- Spare wheel in adjuster.
- Integral retractable reamer.

■ 238A.M5 : Set of 5 spare wheels.

	A		R	H	I	L	⚖
	mm	"	mm	mm	mm	mm	g
238A.32	3 - 32	1/8 - 1 1/4	110	70	30	140	310

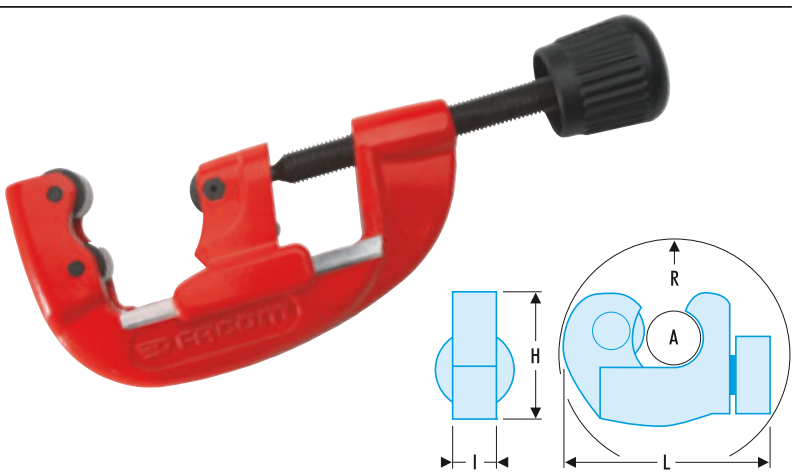


336 Slide-type pipe cutter

- Reamer within metal adjuster.

■ 238A.M5 : Set of 5 spare wheels.

	A		L mm	H	I	max	⚖
	mm	"	min	mm	mm	maxi	g
336.28	6-28	1/4-1"1/8	134	53	37	165	320
336.60	14-60	9/16-2"3/8	195	85	37	245	604



Pipe vices

Go to the vice section p. 618

Plastic-pipe cutter

335 Plastic-pipe cutter

335.40 Ratchet-type pipe cutters.
- Cuts cables up to ∅ 12 mm : 4 x 2.5 mm² max. ; 4 x 3/32 s. inch.
- Fast, burr-free cutting.
- Automatic jaw release.
- Non-return ratchet mechanism.
- Quick pre-setting for smaller diameters.
- Chamfering tool within handle.
- Suitable for cutting electric cables.

335.63 Large capacity ratchet-type PVC pipe cutter.
- Ratchet system for effortless cutting.
- Blade returns to rest position when handles are open.

335.25 Plastic-pipe cutter.
- For ∅ 24 mm plastic pipes.
- Patented "V"-shaped blade for a perfect cut on even the thinnest pipes.
- Strong, durable stainless steel blade.
- Can cut flexible multi-strand cables up to 5 x 2.5 mm².

	A max	A max "	L mm	⚖ kg
335.25	25	1	195	0,165
335.40	42	1"1/2	230	0,6
335.63	63	2"1/2	430	1,1

335.40

335.63

335.25

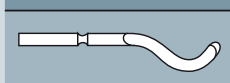
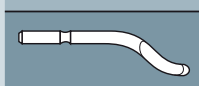
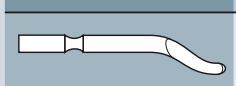
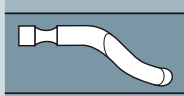
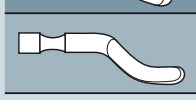
Deburring - Chamfering

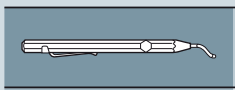
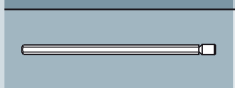
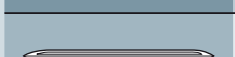
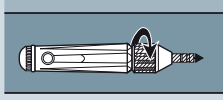
Deburring/chamfering set

325

• Set of deburring/chamfering tools for steel, aluminium, copper, brass or plastic pipes.
• Effective length of blade-holder 110 mm.
• Case 200 x 110 x 40 mm.

Kit contents

	325.L35J10	Heavy-duty HSS blade for steel and aluminium. Length : 47 mm ; Ø 3.2 mm.
	325.L20J10	Heavy-duty HSS blade for cast iron and brass. Left and right-hand operation. Length : 47 mm ; Ø 3.2 mm.
	325.L30J10	Heavy-duty HSS blade for outside and inside deburring, in particular of drilled holes. Length : 47 mm ; Ø 3.2 mm.
	325.L10J10	Fine HSS blade for steel and aluminium. Length : 47 mm ; Ø 3.5 mm.
	325.L1J10	HSS blade for steel and aluminium. Length : 23 mm ; Ø 2.6 mm.
	325.L2J10	HSS blade for cast iron and brass. Left and right-hand operation. Length : 23 mm ; Ø 2.6 mm.

	325.01	Short-blade monobloc deburrer for steel and aluminium.
	325.04.01	Extension for cone bits.
	325.F12	Tapered bit Ø 12 mm - M7 thread.
	325.F20	Tapered bit Ø 20 mm - M7 thread.
	325.03	Extension for blades Ø 2.6 and 3.2 mm.
	325.05	Reversible triangular scraper.
	325.02	Tool-holder handle for 325.04.01, 325.03, 325.05.

Flanging tools

Flange press set for S.A.E, DIN, S.A.E./DIN fittings

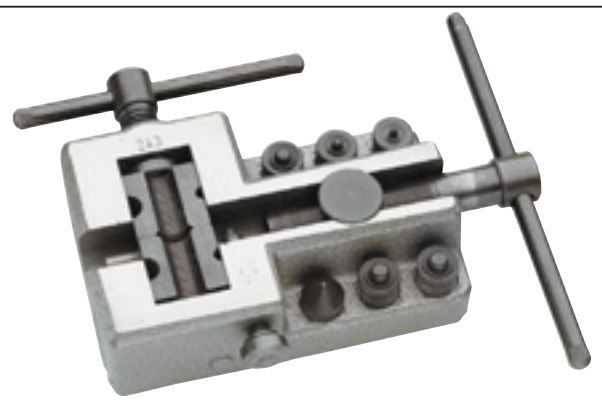
347

• For copper and steel pipework Ø 4.75 to 12 mm ; 3/16" to 1/2".
• Wall thickness : 0.7 to 1 mm.
• Press can be secured in a vice for increased stability.
• Fast and effortless forming.
• Kit includes 11 punches and 10 dies.
• Instructions explain selection according to flange type.
• Steel case : 396 x 224 x 82 mm.
⚖ : 7.9 kg.

Flange press

243

▷ DIN 74234.
• For seamless and rolled pipes Ø 4.75-6-8-9-10 mm ; wall thickness 0.7 to 1 mm.
• Can be secured in a vice.
• Dimensions : 170 x 130 x 55 mm.
⚖ : 2.58 kg.



"Refrigeration" flaring tool, metric dies 6 to 14 mm

239

• For pipework Ø 6 to 14 mm.
• Produces 45° flares in copper pipes without the need for annealing.
• BT.115 : 332 x 143 x 67 mm.
⚖ : 1.52 kg.
■ 239.MU : Inch dies : For pipework Ø 3/16" to 5/8".

	Description
239	Metric die 6mm - 14mm
239.MU	Inch die 3/16" - 5/8"

"Refrigeration" metric set

240.M

• Yoke and die for pipework Ø 6-8-10-12-14 mm.
238A.32 Pipe cutter.
• Supplied in a plastic case.
BP.115 : 332 x 143 x 67 mm.
⚖ : 1.82 kg.

"Refrigeration" metric/inch set

242

• Yoke.
• Die for pipework Ø 6-8-10-12-14 mm.
• Die for pipework Ø 3/16"-1/4"-5/16"-3/8"-7/16"-1/2"-5/8".
238A.32 Pipe cutter.
• Complete with a plastic case 350 x 125 x 40 mm.
⚖ : 2.4 kg.

Press and mini-bender set

243.244J1

• For flanging and bending copper, aluminium, and mild-steel pipework, wall thickness 0.7 to 1 mm.
• Suitable for pipework Ø 4.75 - 6 - 8 - 9 - 10 mm.
• Comprising :
• Flange press ref. 243.
• Mini bender 244 and bending formers.
• Pipe cutter 238A.16
• Complete with steel case 405 x 165 x 55 mm.
⚖ : 5.4 kg.

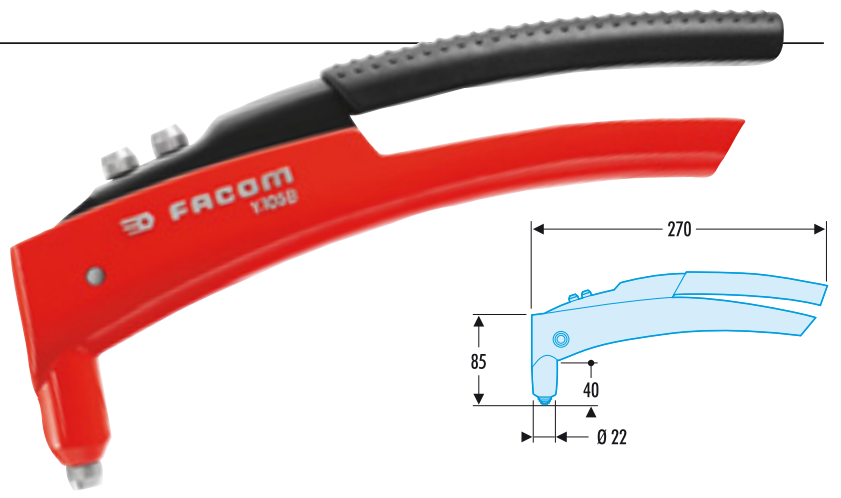
Riveting

Hand riveters

Riveter

Y.105B

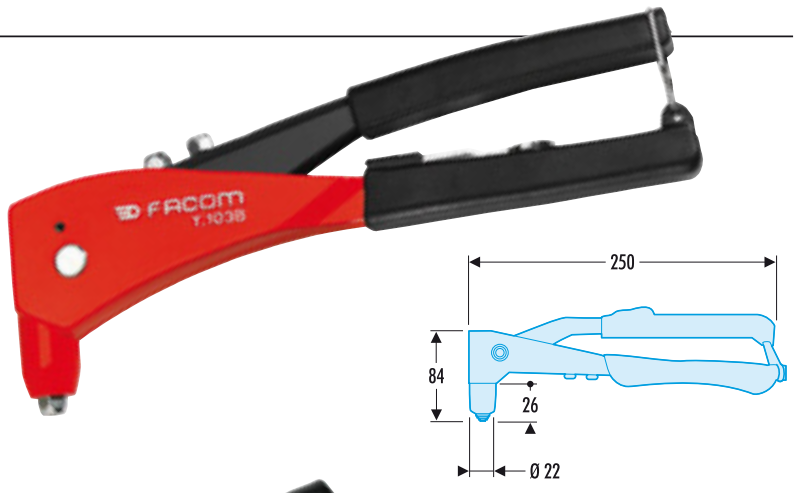
• Capacity : Ø 5 mm aluminium rivets and Ø 4 mm steel rivets.
• Grips shaped for optimum comfort.
• Return-spring to closed position prevents loss of rivet.
• Cushioning system when pin snaps.
• Supplied with 3 nosepieces Ø 3 to 3.2 mm - 4 mm - 4.8 to 5 mm.
• Knurled nosepieces for hand-fitting.
⚖ : 632 g.



Riveter

Y.103B

• Capacity :
- Aluminium rivets 3, 3.2, 4, 4.8 and 5 mm diameter.
- Steel rivets 3, 3.2 and 4 mm diameter.
• Spring-loaded to open position.
• 3 nosepieces with keys for ∅ 3 to 3.2 mm - 4 mm - 4.8 mm to 5 mm.
⚖ : 595 g.



Two-handed riveter

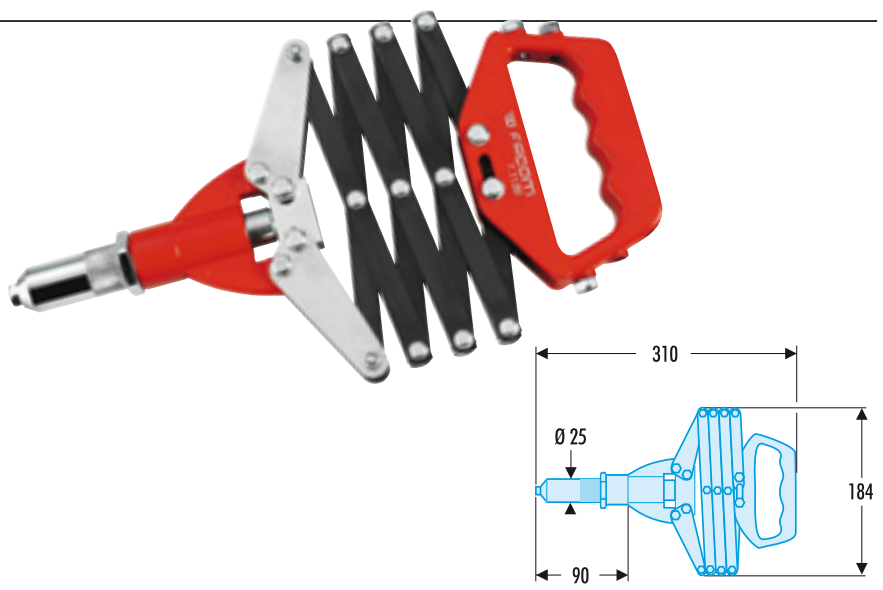
Y.116

• Capacity : ∅ 6.4 mm aluminium rivets, 6 mm steel rivets.
• Absorbers cushion impact when pin snaps.
• Supplied with 4 nosepieces ∅ 4 - 5 - 6 - 6.4 mm and spent-nail holder.
⚖ : 1.9 kg.

Extender

Y.113

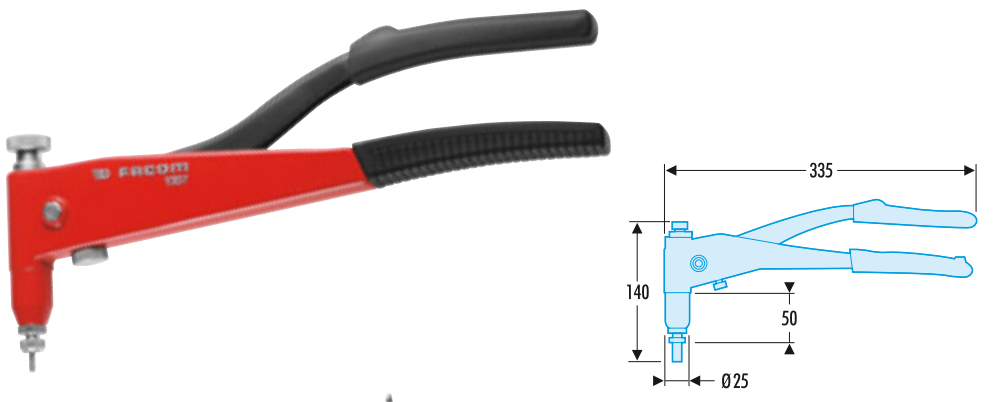
• Capacity : ∅ 6.4 mm aluminium rivets and ∅ 5 mm steel rivets.
• Suitable for intensive use especially on building sites.
• Supplied with 5 nosepieces ∅ 3 to 3.2 mm - 4 mm - 4.8 to 5 mm - 6 mm - 6.4 mm.
⚖ : 2.15 kg.



Blind-nut riveter

Y.107

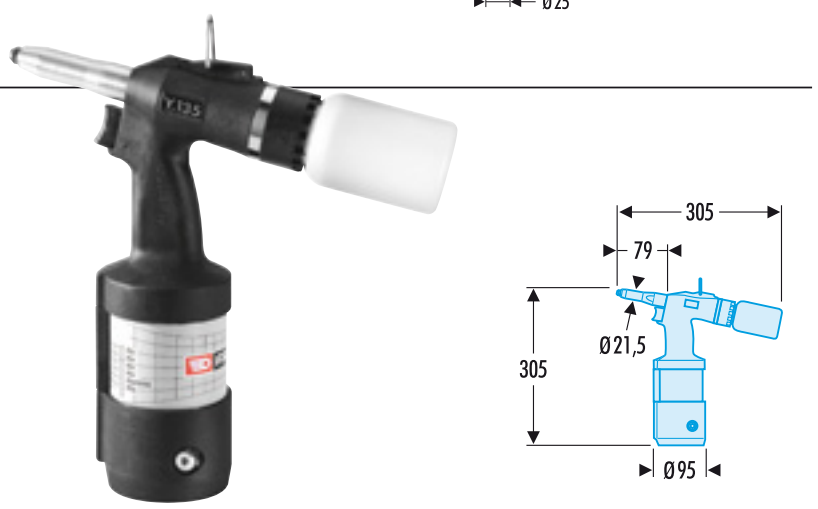
• Capacity : M6 steel nuts and M5 stainless nuts.
• Supplied with 3 chucks M4 - M5 - M6.
• Single or two-handed use.
• Complete with accessories.
⚖ : 1.17 kg.



Suction riveter

Y.135

• Capacity : ∅ 5 mm in any material.
• Traction travel 17 mm.
• Force 1,100N.
• Adjustable pin-suction.
• Spent-nail holder.
• Swivel air-connection fits under or to the side of the gun.
• Supplied with nozzles for 2 - 3 - 4 and 5 mm diameter rivets.
⚖ : 2.47 kg.



Riveting kits

Maintenance kit for multi-thickness aluminium rivets

Y.RIV1

- Y.105B Riveter.
- Selection of rivets ∅ 4 to 4.8 mm with standard head, 4.8 mm with wide head, in popular sizes for joint thickness 1.3 to 13 mm (approx. 450 rivets).
- Partitioned case with contents list.
- Case 360 x 300 x 60 mm.

⚖ : 2.7 kg.

Maintenance kit for aluminium and black rivets

Y.RIV2

- Y.105B Riveter.
- Selection of aluminium rivets with standard head 4 x 8 - 4 x 10 - 4.8 x 8 - 4.8 x 10, and black aluminium rivets with standard head 4 x 8 - 4 x 10 (approx. 600 rivets).
- Case 360 x 300 x 60 mm.

⚖ : 2.43 kg.

Maintenance kit for aluminium rivets

Y.RIV3

- Y.105B Riveter.
- Selection of aluminium rivets with standard head 4 x 8 - 4 x 10 - 4.8 x 8 - 4.8 x 10, and with wide head 4 x 8 - 4 x 10 (approx. 600 rivets).
- Case 360 x 300 x 60 mm.

⚖ : 2.35 kg.

Blind-nut kit

Y.M46

- Comprising :

- Y.107 Blind-nut riveter.
- Selection of steel nuts M4 - M5 - M6 in popular sizes for joint thicknesses 0.3 to 3 mm (approx. 100 nuts).

- Partitioned case with contents list and instructions : 360 x 300 x 60 mm.

⚖ : 2.5 kg.

Riveting module

MOD.Y105PB

- Y.105B Riveter.
- 600 aluminium rivets :

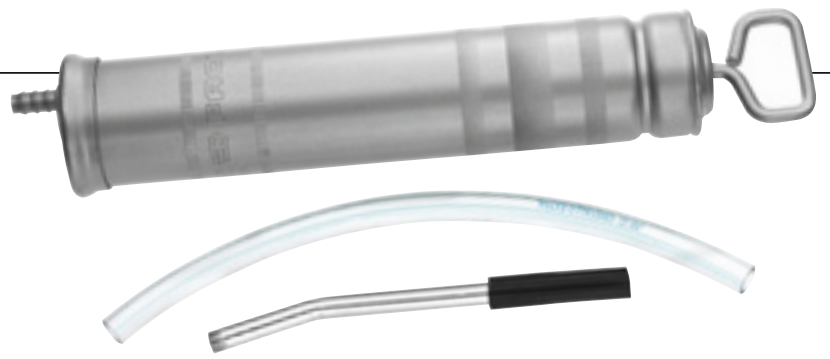
- Standard head : 4x8 - 4x10 - 4.8x8 - 4.8x10.
- Black standard head : 4x8 - 4x10.

- Tray PL.377.

⚖ : 1.984 kg.

Lubrication

Manual oil syringe



376A

- Capacity : 500 cm^3.
- Galvanized steel body.
- Supplied with : 376A.1 Angled delivery tube.
- Length 420 mm.

⚖ : 830 g.

Lever-operated grease gun

378A

▷ DIN 1284 - Grease cartridge.
- Pressure 400 bars. Air bleed facility.
- For use with cartridges or bulk grease.
- Capacity 500 cm³ or 400 g of grease.
- Hose to DIN 1283 (static and bursting pressure).
- Hose constructed of rubber approved to DIN 20024.
- Hose diameter = 13.1 mm.
- Hose bending radius = 90 mm.
- Length : 370 mm excluding hose.

⚖ : 1.356 kg.

Compact grease gun

377A

▷ DIN 1282
- Nickel finish steel body.
- Supplied with 1 lube coupler and 1 hydraulic coupler.
- Capacity 150 cm³.
- Pressure 200 bar.
- Length : 345 mm ∅ 43 mm.

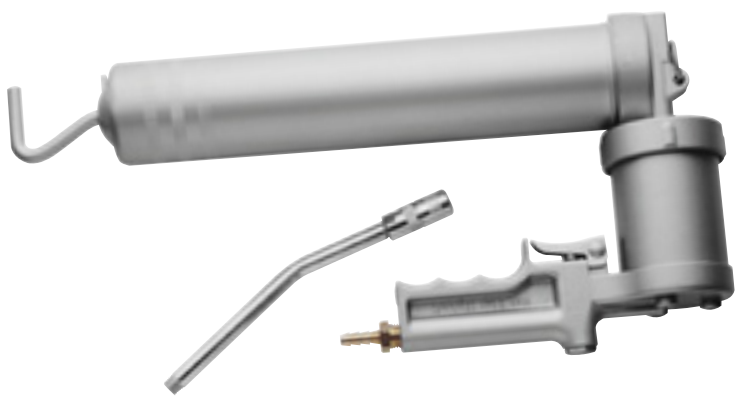
⚖ : 410 g.

Air-operated grease gun

379A

- Aluminium body. Capacity 500 cm³, i.e. 400g of grease. 1 cm³ per stroke.
- Air pressure 2 to 8 bar (6 bar recommended).
- Supply hose ∅ 8 mm.
- Cartridge fill or from bulk grease.
- Length : 179 mm. Height : 380 mm.
- Complete with angled delivery tube fitted with coupler.

⚖ : 1.7 kg.



Set of grease fittings

380

- Selection of delivery tubes and hoses, with couplers for all common types of grease nipple.
- Suitable for models 378A and 379A.
- Case 310 x 110 x 55 mm.

⚖ : 425 g.

373 Single-action oil cans

- Pumped delivery. rigid steel body.
- 373.F35 has flexible spout.

	Capacity cm³	Tips length mm	∅ mm	⚖ g
373.25	250	130	73	210
373.35	350	130	84	236
373.50	500	130	84	277
373.F35	350	130	84	240

Double-action oil can

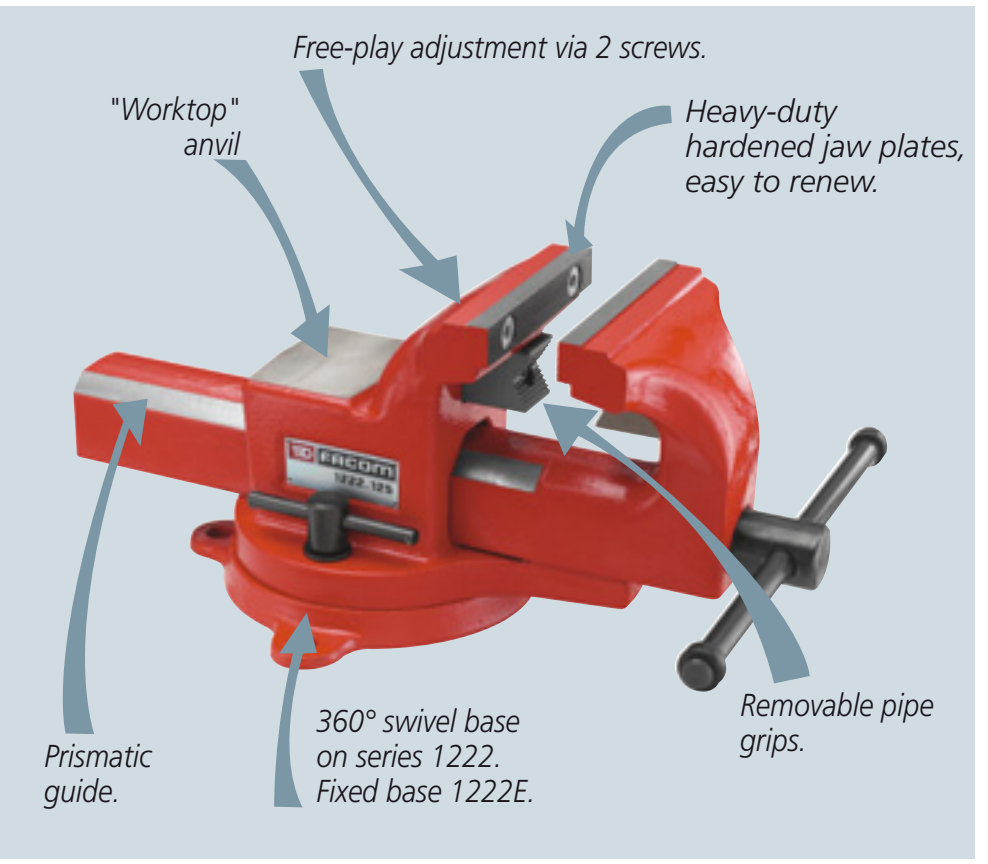
374A.20

- Double-acting pump.
- Useable in any position. Dispenses drop-by-drop.
- Capacity : 200 ml.
- Impact-resistant zinc body.

	Height mm	Width mm	Depth mm	⚖ g
374A.20	271	117	61	442

Vices

Vices



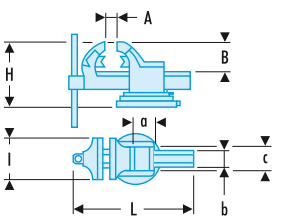
1222 Engineers vices with 360° swivel base

- -Spherical graphite cast-iron vices, minimum failure load 700 N/mm² .
- Large prismatic guide/moving jaw support base prevents the guide from bending, vice operation maintained even under heavy loads.
- Interchangeable parallel jaw plates. High wear resistance, hardness 48/53 HRc.
- Removable V-shaped jaws for clamping pipes. Hardness 40/46 HRc.
- Take-up of wear by means of 2 adjustment screws.
- Burnished operating handle.

	l mm	A max mm	L mm	B mm	a x b mm	c mm	H mm	Max capacity/ tube	⍁ kg
1222.100	100	125	325	66	48x68	41,5	140	3/4"	7,24
1222.125	125	150	402	82	60x84	51,5	172	2.1/2"	13,80
1222.150	150	200	492	99	70x96	58,5	201	3"	21,85
1222.175	175	235	551	118	80x110	67,5	237	4"	33,35

1222.E Engineers vices with fixed base

- Similar to model 1222 but without swivel base.

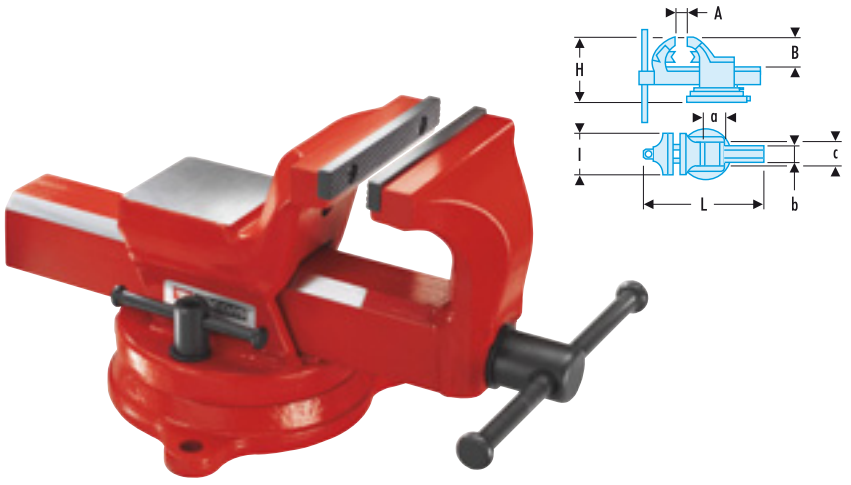


	H mm	⍁ kg
1222.100E	122	6,30
1222.125E	153	12,70
1222.150E	182	20,45
1222.175E	211	30,70

1223 Fitters swivel-base vices

- Interchangeable jaw plates.
- Free-play compensation.
- All steel construction.

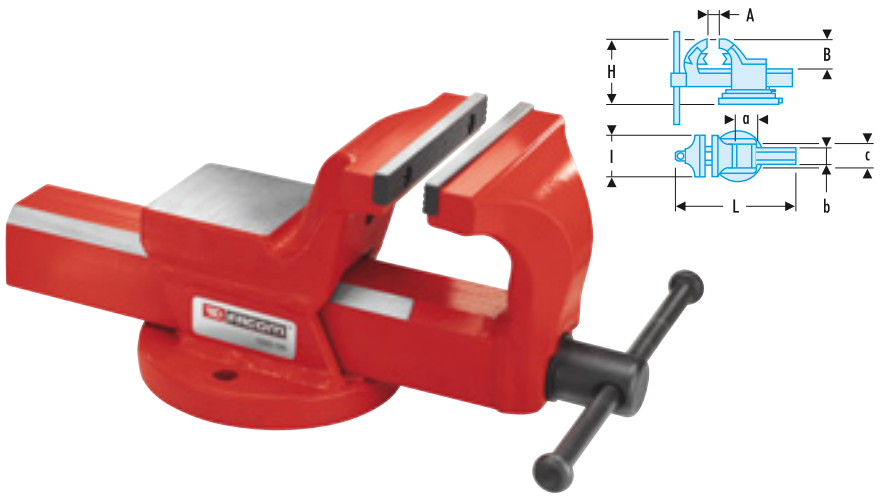
	l mm	A max mm	L mm	B mm	H mm	a x b mm	c mm	⚖ kg
1223.90	90	125	300	72	153	55 x 61	45	8
1223.105	105	130	300	72	153	57 x 62	45	8,5
1223.125	125	150	350	90	180	70 x 70	50	12,7
1223.150	150	210	460	107	210	85 x 85	56	21,5



1223.E Fitters fixed vices

- Similar to model 1223 but without swivel base.

	H mm	⚖ kg
1223.90E	130	6,5
1223.105E	130	7
1223.125E	152	10,5
1223.150E	182	18,7

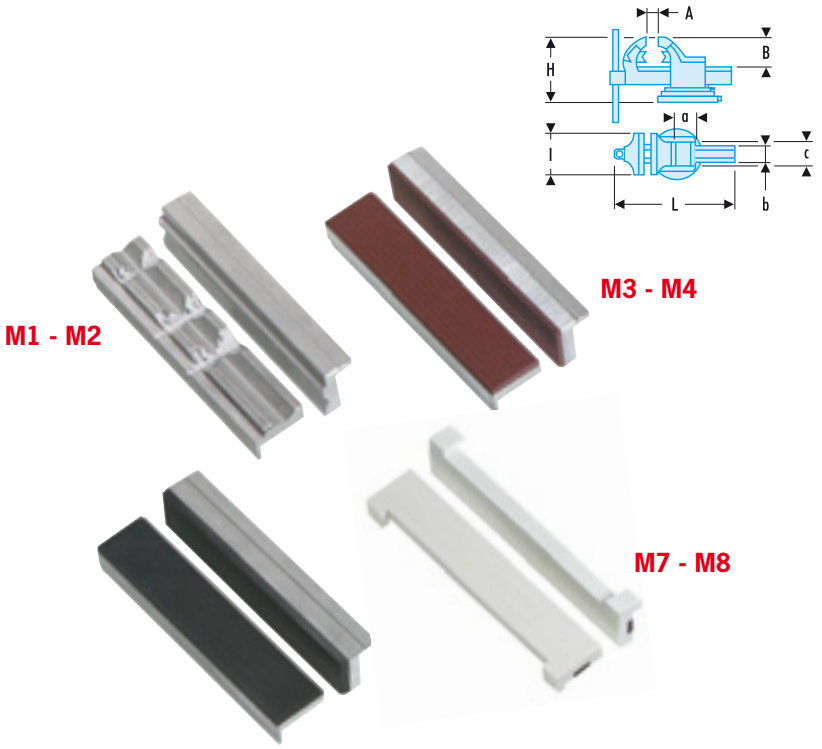


1223.M Vice clamp sets

- To fit vices 1222 and 1223.
- Magnetically secured to vice.
- Material :

1223.M1 - 1223.M2 : Aluminium prism-face.
1223.M3 - 1223.M4 : Fibre-face.
1223.M5 - 1223.M6 : Rubber-face.
1223.M7 - 1223.M8 : Plastic-face.

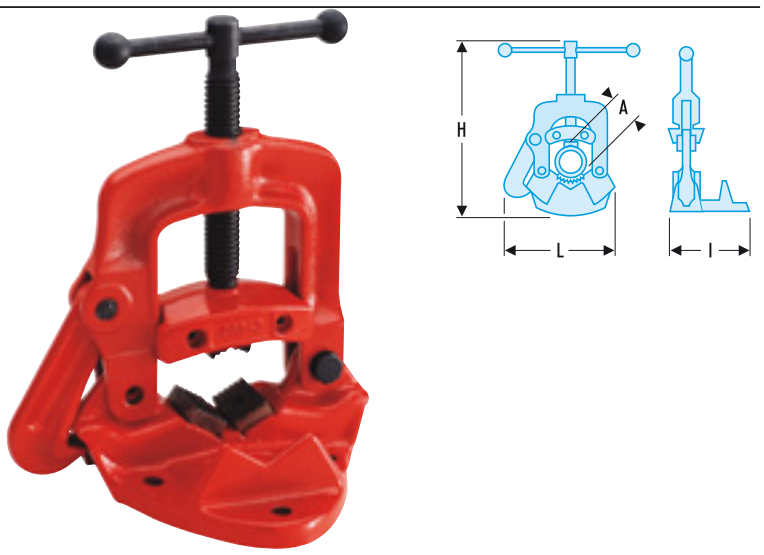
	L mm	⚖ g
1223.M1	125	200
1223.M2	150	240
1223.M3	125	200
1223.M4	150	240
1223.M5	125	200
1223.M6	150	240
1223.M7	125	70
1223.M8	150	85



283 Pipe vices

- Base, frame, lock and slide in ductile cast-iron.
- Semi-hard drawn steel screw with square thread.
- Special hardened steel jaw inserts.

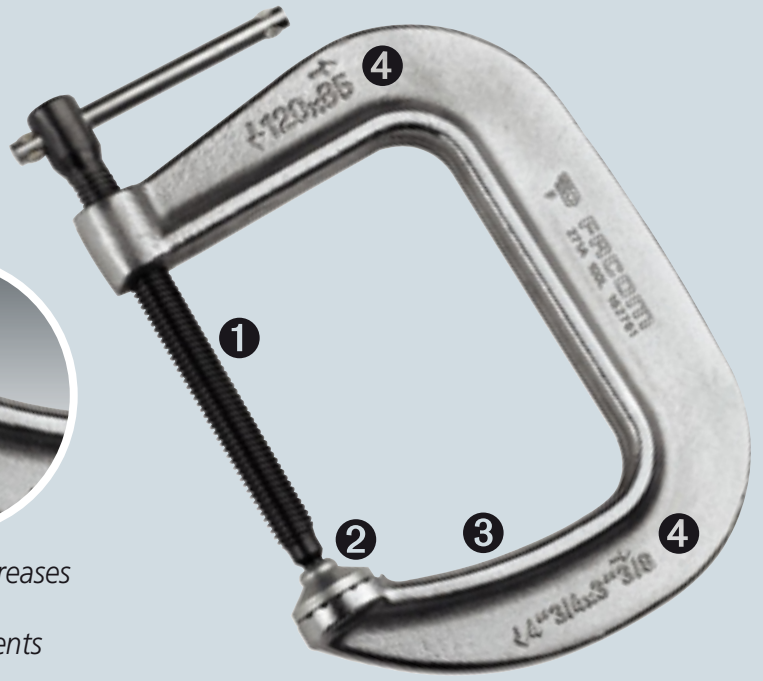
	A mín. - máx. mm	"	L mm	H mm	l mm	⚖ kg
283.2	10 - 60	1/8 - 2	185	205	130	3,5
283.3	13 - 90	1/4 - 3	240	265	150	5,9



G-clamps

G-clamps

The features shown are designed for intensive use.



- *Offset pad increases strength.*
- *T-section prevents bending.*

- *Double-threaded screw*
  - *Strength.*
  - *Speed of opening.*

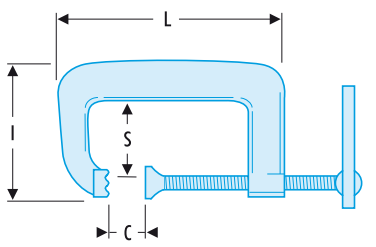
- *Zinc-plated swivel shoe.*

- *Throat clearances marked in millimetres and inches.*

271A Compact G-clamp

- Capacity : 0 to 250 mm and 0 to 9 7/8".
- Zinc finish, burnished screw.

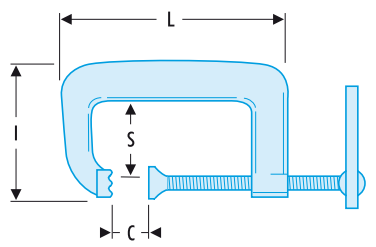
	C max mm	S mm	I mm	L mm	⏢ kg
271A.40	40	42	75	100	0,3
271A.60	60	57	98	130	0,51
271A.80	80	67	115	167	0,81
271A.100	100	77	131	192	1,17
271A.120	120	88	148	223	1,68
271A.150	150	98	162	262	1,98
271A.200	200	108	185	320	3,24
271A.250	250	118	202	380	3,95



271A.L Deep-throat G-clamp

- Capacity : 0 to 150 mm and 0 to 5 7/8".
- Zinc finish, burnished screw.

	C max mm	S mm	I mm	L mm	⏢ kg
271A.80L	80	88	147	186	1,37
271A.100L	100	103	169	212	1,83
271A.120L	120	113	186	244	2,66
271A.150L	150	133	213	288	3,32

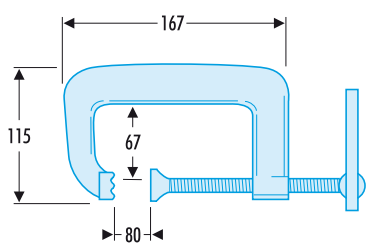


Arc-welding G-clamp

271A.80S

- Capacity : 0 to 80 mm and 0 to 3 1/8".
- Copper-plated screw and brass bolt for earth connection.
- Zinc finish.

⏢ : 920 g.

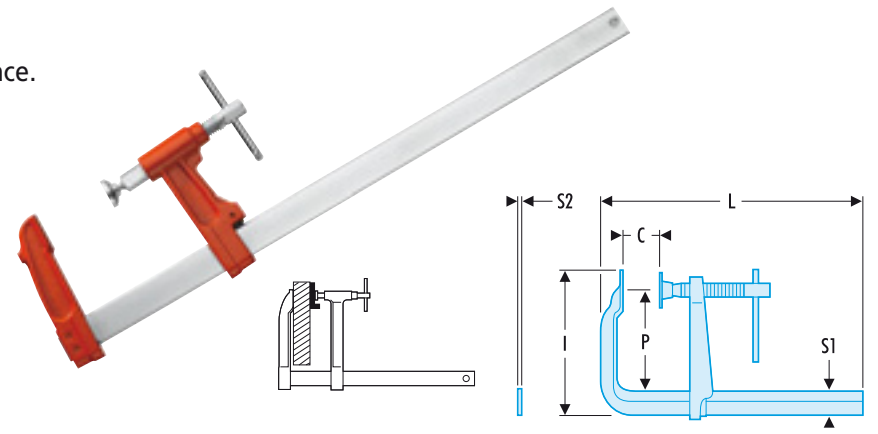


Bar clamps

272A Pump-action bar clamp

- Capacity : 0 to 1,500 mm.
- Pump allows precision clamping without rotation.
- Hardened bar with edge notches for positive lock. Ball-joint swivel face.
- Paint finish, zinc-plated bar.

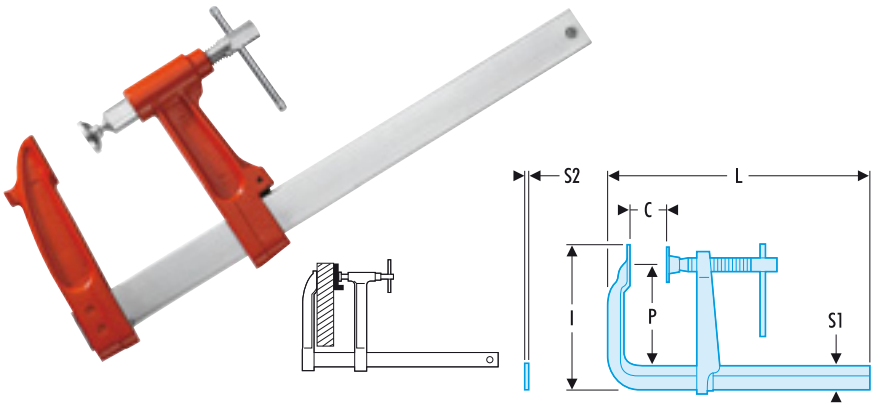
	C max mm	S1 x S2 mm	P mm	I mm	L mm	ΔΔ kg
272A.300	300	30 x 8	80	150	370	1,7
272A.400	400	30 x 8	80	150	470	1,9
272A.500	500	30 x 8	80	150	600	2,1
272A.600	600	35 x 9	100	180	680	2,9
272A.800	800	35 x 9	100	180	880	3,37
272A.1000	1000	35 x 9	100	180	1100	3,84
272A.1200	1200	35 x 9	100	180	1300	4,31
272A.1500	1500	35 x 9	100	180	1600	5



272L Deep-throat pump-action bar clamp

- Capacity : 0 to 1,000 mm.
- Throat depth : 150 mm.
- Similar to model 272A but with extended slide and top jaw for wider clamping requirements.

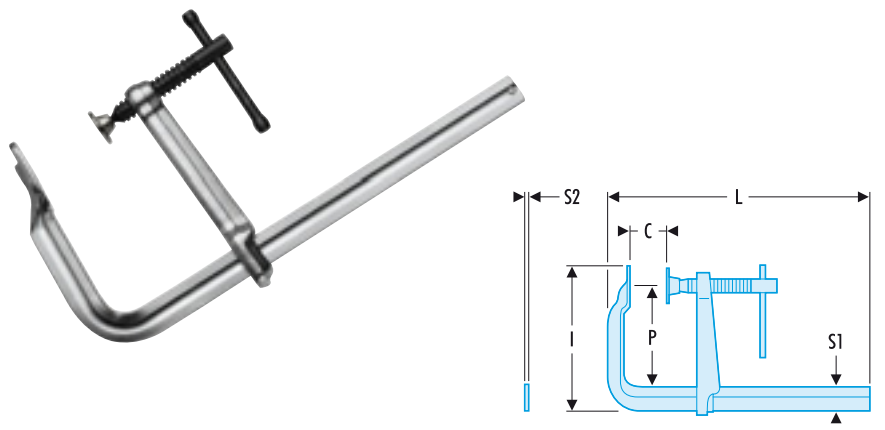
	C max mm	S1 x S2 mm	P mm	I mm	L mm	ΔΔ kg
272.300L	300	40 x 9	150	215	440	3
272.400L	400	40 x 9	150	215	540	3,3
272.600L	600	40 x 9	150	215	740	3,9
272.1000L	1000	40 x 9	150	215	1140	5,1



274 Screw-type 6,500 N bar clamps

- Capacity : 0 to 500 mm.
- Clamping force up to 6,500 N.
- Shaped hardened bar, forged top jaw and slide, square-thread screw for powerful clamping.
- 30° swivel face.
- Galvanized finish.

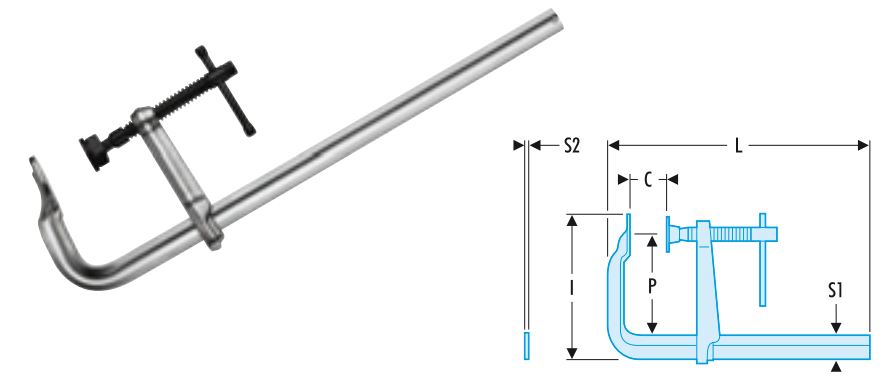
	C max mm	S1 x S2 mm	P mm	I mm	L mm	ΔΔ kg
274.200	200	19,5 x 9,5	100	150	250	0,72
274.300	300	25 x 12	140	190	360	1,6
274.400	400	25 x 12	120	170	460	1,65
274.500	500	25 x 12	120	170	560	2



275 Screw-type 12,000 N bar clamps

- Capacity : 0 to 1,000 mm.
- Clamping force up to 12,000 N.
- Wide-section bar and screw for powerful clamping up to 1.2 tonnes between top jaw and slide.
- 35° swivel face.
- Galvanized finish.

	C max mm	S1 x S2 mm	P mm	I mm	L mm	ΔΔ kg
275.300	300	30 x 15	140	180	350	2,8
275.500	500	30 x 15	120	180	560	3
275.800	800	30 x 15	120	180	880	4,2
275.1000	1000	30 x 15	120	180	1100	4,8



16. Electricity

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Pivoting blade sheath strippers 624
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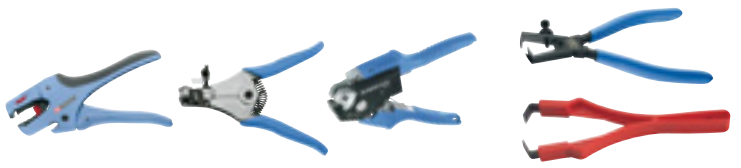
Wire strippers 626



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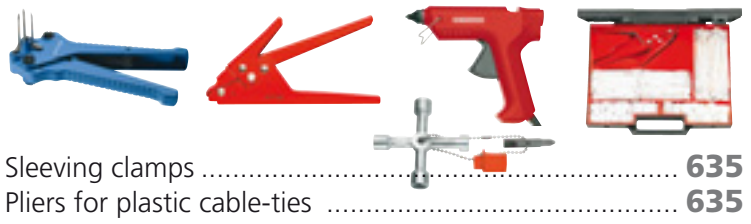

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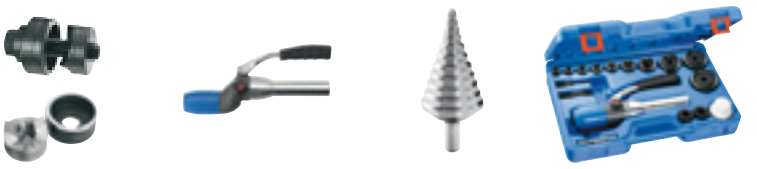

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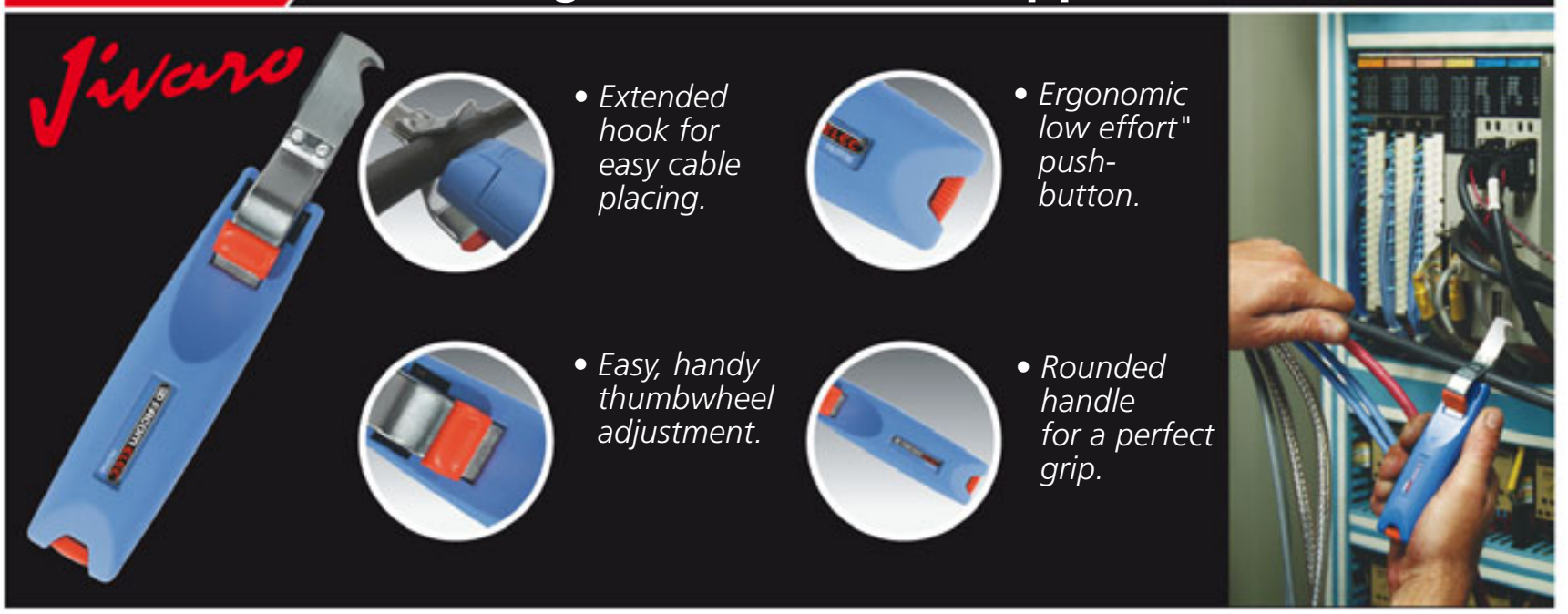
706 Section 17 soldering

Pivoting blade sheath strippers

Pivoting blade sheath stripper



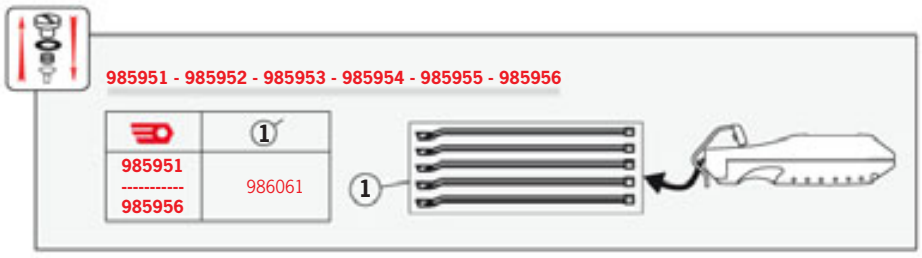
Sheath strippers

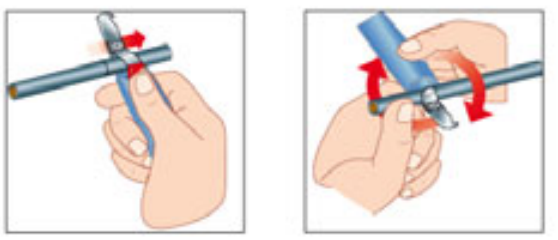
- Ergonomic "low-effort" push-button.
- Spare blade included in the body.
- Easily accessible thumbwheel adjustment.
- Self-pivoting blade.
- 985955 straight blade.
- 985956 hooked blade.

	Capacity ◉ ❁ Ø mm	ΔΔ g
985951	16	65
985952	28	65
985953	35	65
985954	50	65
985955	28 LD	75
985956	28 LC	75

985951 - 985952 - 985953 - 985954 - 985955 - 985956

	①
985951 ---------- 985956	986061





Straight/helical sheath strippers

Rotary sheath and insulation stripping tool

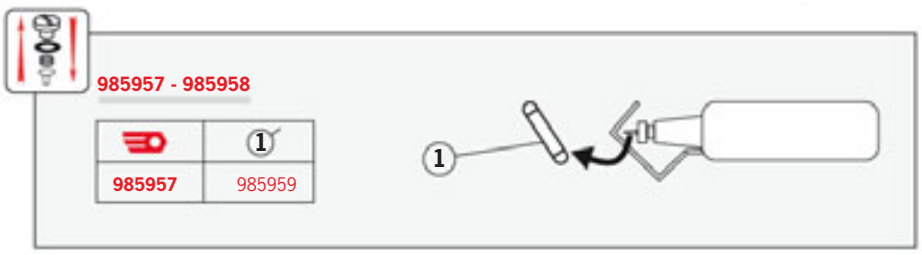
985957

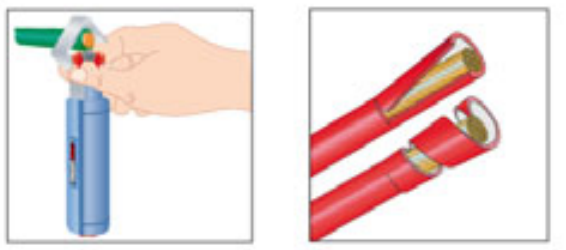
- Perfect for stripping long lengths.
- 2 stripping options :
- Straight-line stripping.
- Helical stripping by simply rotating the head.
- Capacity : 4.5 to 29 mm - L : 137 mm.

	Capacity ◉ ❁ Ø mm	L mm	ΔΔ g
985957	4,5 à 29	137	97

985957 - 985958

	①
985957	985959





Multi-function sheath strippers

Multi-function sheath stripper

985962

• A tool to strip sheathing and insulation without pre-setting.
• Also suitable for stripping coaxial cables.
• Suitable for stripping cables at the bottom of recessed electrical back-boxes.
Strips sheaths Ø 4 ➤ 13 mm.
Strips wires Ø 0.5 ➤ 16 mm.
Coaxial cables 4 ➤ 8 mm.

	Ø sheath stripping mm	Ø wire stripping mm	Ø coaxial cables mm	⚖ g
985962	4 bis 13	0,5 bis 16	4 bis 8	90

Sheath and insulation stripper for coaxial and twisted-pair cables

985936

• A tool for easily stripping sheathing and insulation on coaxial, twisted pair (UTP and STP) and fibre optic cables.

	Ø mm	⚖ g
985936	11	35

Coaxial cable sheath strippers

Coaxial cable sheath and insulation stripper

985964

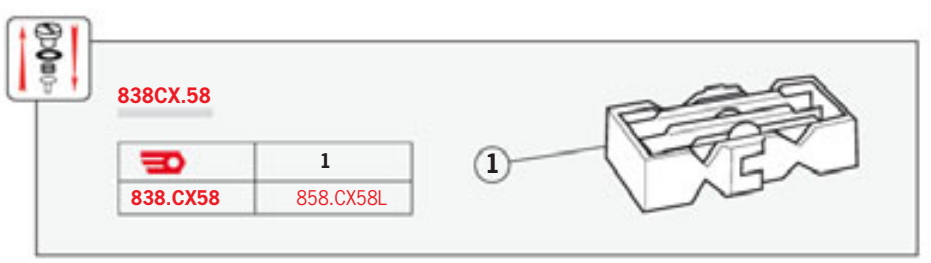
• 2 sides :
A : Sheath stripping.
B : Wire stripping.

	Ø mm	⚖ g
985964	4,8 → 7,5	26

Model RG.58, RG.59 and RG.62 for coaxial cables

838.CX58

• Preset for stripping coaxial cables in one operation.
• Allows direct fitting of BNC connectors used on computer, video and radio-telephone equipment.
• Compact design and permanent setting (requires tool for adjustment).
• Set of reversible blades for double service life, complete with gauge.



Automatic wire strippers

Automatic wire stripper

Swingo

THE ALL-PURPOSE STRIPPER !

One tool for cutting and stripping wires from 0.02 to 10 mm².

- *Adjustable stripping depth.*
- *Soft grips.*
- *Jaw force adjustment according to temperature conditions : indoors or outdoors working, hard or soft insulation.*
- *Mechanism designed for smooth, effortless wire stripping.*
- *Very easy blade change.*

New

Swingo

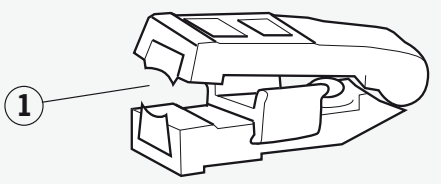
793936

- Glass-filled nylon body.
- Integral wire cutter :
- 1.5 mm² single-core wire.
- 10 mm² multi-core wire.
- Stripping length setting 3 to 18 mm.
- Stripping capacity 0.02 to 10 mm².

	Capacity mm	Cut	AWG	mm	Coupe multi	g
793936	0,02 → 10 mm²	1,5 mm²	32 - 8	3 → 18	10 mm²	136

793936

	①
793936	793207



Small cross-section wire strippers

Small cross-section wire strippers

- These tools are suitable for stripping small cross-section PVC and Teflon-coated wires.

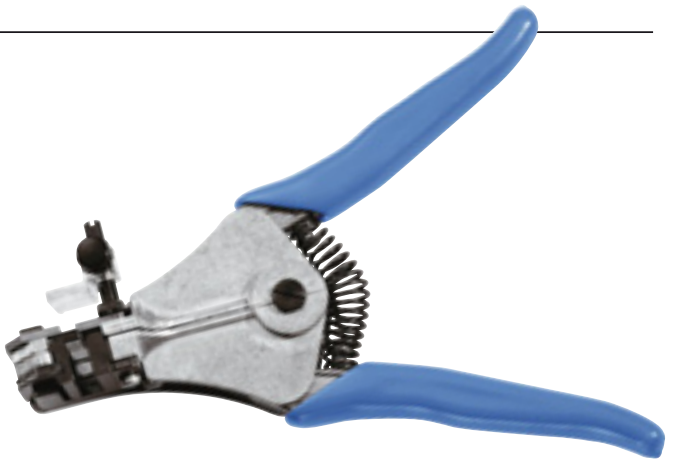
	Ø mm	AWG	g
986103	0,12 - 0,16 - 0,20 - 0,25 - 0,30 - 0,40	36 - 34 - 32 - 30 - 28 - 26	15
986104	0,25 - 0,30 - 0,40 - 0,50 - 0,60 - 0,80	30 - 28 - 26 - 24 - 22 - 20	15
986105	0,30 - 0,40 - 0,50 - 0,60 - 0,80 - 1,00	28 - 26 - 24 - 22 - 20 - 18	15

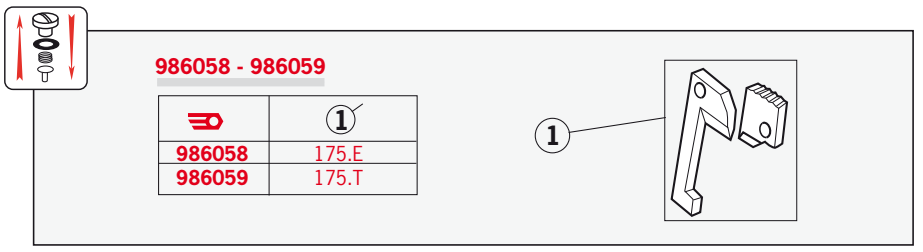
Automatic side-entry wire strippers

Automatic side-entry wire strippers

• High precision stripping, one diameter for each conductor.

	mm²	Notch Ø mm	g
986058	1,5 → 4	0,6 - 0,8 - 1 - 1,2 - 1,6 - 2 - 2,5	370
986059	2,4 → 10	2 - 2,4 - 3,1 - 4	370

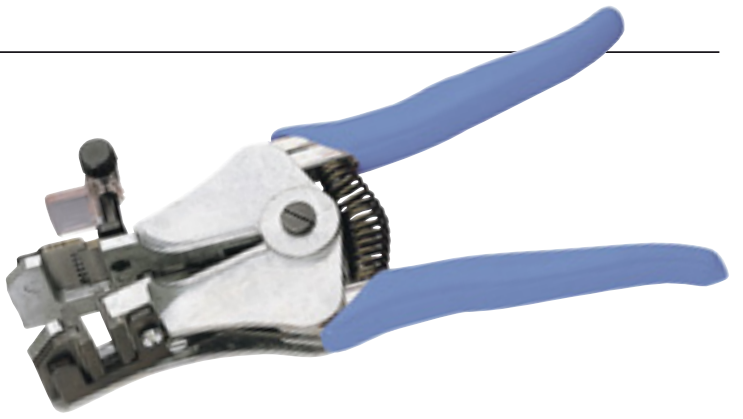




High-precision Teflon insulation strippers

165.1

• High degree of accuracy gives a clean circular cut without damaging the core. Inset jaws are designed to protect insulation from score marks.
• AWG : 26-24-22-20-18-16.
• Notch Ø : 0.55 - 0.65 -0.82 - 1.05 - 1.30 - 1.55 mm.
■ 165.U : Spare blades.

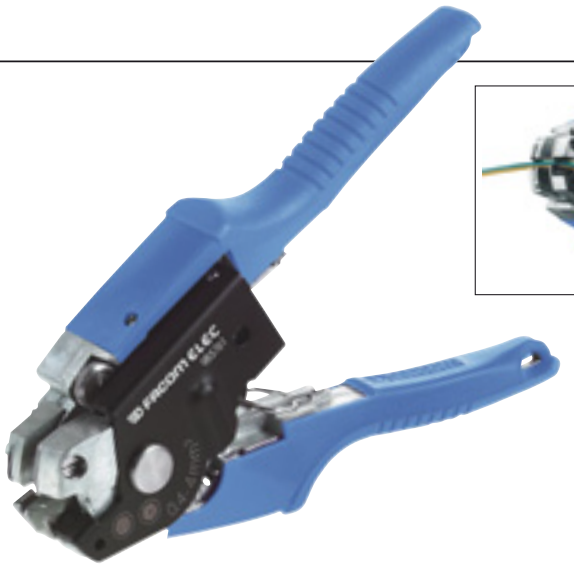


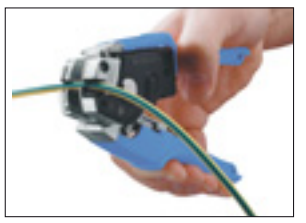
Automatic cutting strippers

Automatic cutting stripper

985761

• Suitable for single or multi-core cables, self-setting to wire gauge.
• Stripped-length thumbwheel adjustment.
• Spare blades 162-L1.
• Cuts and strips in one go.



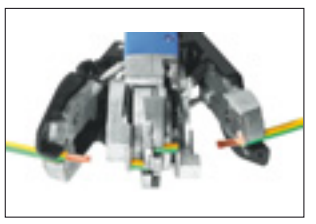


	mm²	AWG	mm	mm	L mm	g
985761	0,4 → 4	21 - 11	0,7 → 2,3	4 → 17	160	340

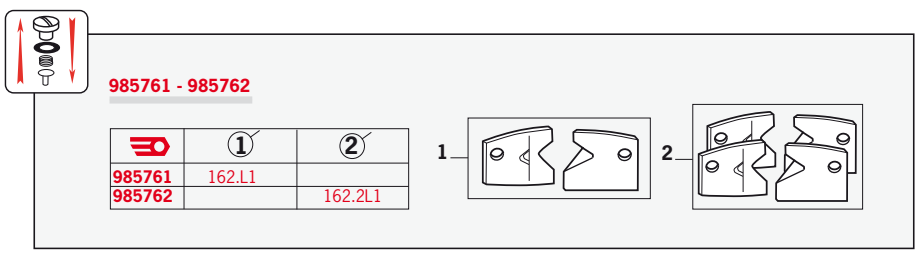
Dual automatic cutting stripper

985762

• Cuts and strips wire both sides for faster wiring.
• Wire is automatically pre-stripped to the correct length.
• Spare blades 162-2L1.



	mm²	AWG	mm	mm	L mm	g
985762	0,4 → 4	21 → 11	21 → 11	0,7 → 2,3	160	430



Wire strippers and cutters

163

- Stripping and cutting, plus end nippers.
- For multi-core wire :

- Ø mm 3.0 - 2.4 - 2.0 - 1.7 - 1.3 - 1.0 / Cutting Ø 3 mm
- mm² : 7.0 - 4.5 - 3.0 - 2.3 - 1.3 - 0.8 / Cutting Ø 7 mm
- AWG : 10.0 - 12.0 - 14.0 - 16.0 - 18.0 - 20.0 / Cutting Ø 10 mm

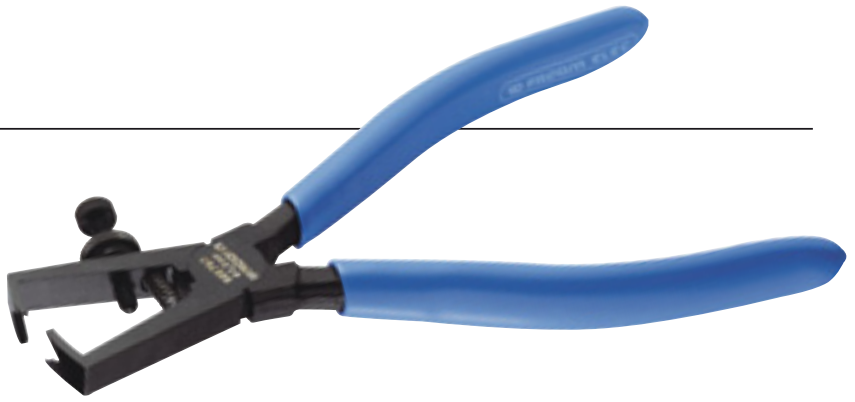
- 6 precision-machined notches.
- Return spring and catch.
- Length 150 mm.

⚖ : 115 g.

End strippers

End stripper

985760

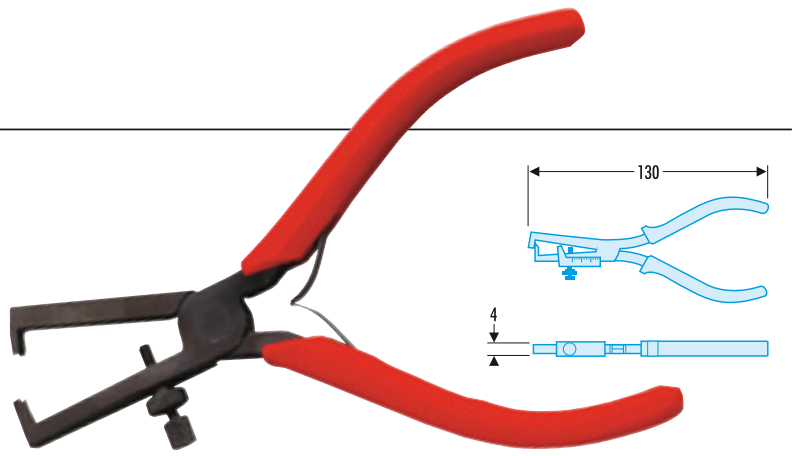


- Opening spring and adjusting screw.
- PVC grips.
- For stripping wires 0.5 to 6 mm².

	mm²	AWG	mm	g
985760	6	→ 10	7 → 18	160

Fine wire strippers

194.12

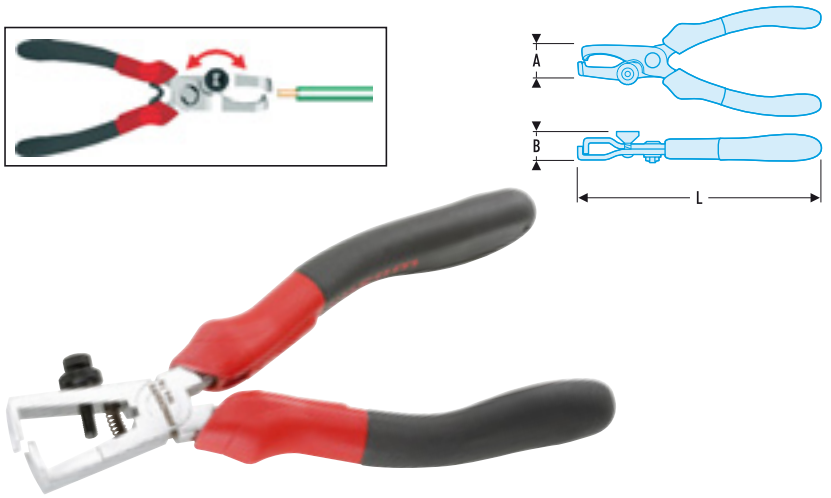


- Max. AWG 14.
- For light-gauge wire.
- Narrow blades.
- Cutting depth presetting.
- Burnished finish, PVC grips.
- Ø 1.5 mm single and multi-core wire.
- Cross section 1.8 mm².

⚖ : 70 g.

Wire stripper

194.17CPE



- For single and multi-core wires 0.5 to 6 mm².

194.17 : Standard forged pliers.

- Knurled adjustment screw with locknut.
- Metal return spring.

	mm²	A mm	B mm	L mm	g
194.17CPE	0,5 - 6	17	8,5	170	185

Coated-wire strippers

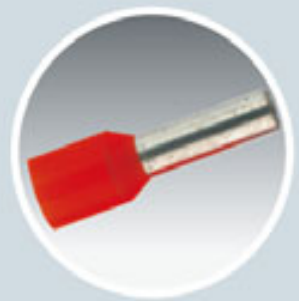
173A

- Hardened steel. Plastic finger-pads for comfortable use.
- Burnished blades.
- 135 mm long x 10 mm wide.

⚖ : 40 g.

Crimping plier inspection service

ISO 9000 quality assurance systems require crimping equipment to be periodically checked for compliance with the standards and recommendations.
That is why Facom's laboratory offers this service.



Pliers covered by the inspection service

- *Pliers for insulated terminals to IEC 760 - 985753, 985894, 673838.*
- *Pliers for cable terminals to NFC 20130*
  - 985754, 985755, 985756,
  - 985896, 985897, 985895.

Crimping pliers for insulated terminals

673838 Crimping pliers for insulated terminals with locator

Ratchet crimping pliers for insulated terminals

673838

FIXED LOWER JAW :
- Easier terminal positioning.
- Stainless steel die.

DUAL CRIMP :
- Die location on the insulation.
- Capacity 0.4 to 6 mm².
- Left/right-hand operation.

⚖ : 0.490 kg.

Maintenance crimping pliers for insulated terminals

985894

- Dual crimp on insulated terminals, to applicable standards, with grip around both conductor and insulation.
- Stainless steel die.
- Latch remains accessible.
- Good grip in the hand.
- Soft feel.
- To IEC 60352.2 / IEC 60760.
- Reverse crimping : terminal placed in the fixed part for greater efficiency and precision.

	Capacity mm²	L mm	⚖ g
985894	0,4 → 6	230	490

Production crimping pliers for insulated terminals

985753

- To IEC 760.
- Extended handle for two-hand use.
- Pliers can be released while crimping.
- Dual crimp.
- Comfortable grips.

	Capacity mm²	L mm	⚖ g
985753	0,75→ 6	255	540

Locator

986007

- Locator for use with pliers 985753 for crimping under the best conditions.

Checking gauge

986008

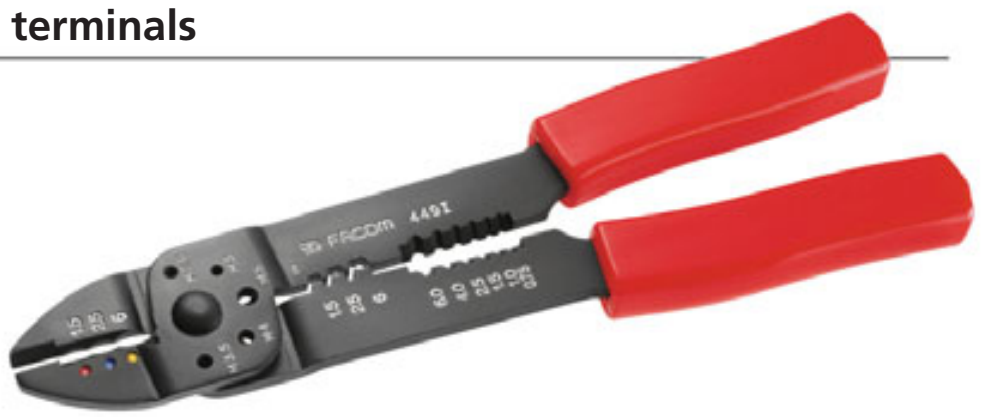
- For use with production crimping pliers 985753.
- Checks height of 3 crimping dies.

Standard crimping pliers for insulated terminals

449I

- Integral wire-cutter.
- Insulated terminals 1.5-2.5-6 mm².
- Bare terminals 1.5-2.5-6 mm².
- Strips wires 0.75 to 6 mm².

⚖ : 260 g.



Crimping pliers for tubular terminals and sleeves

Crimping pliers for tubular terminals

985966

- Ratchet system with release mechanism in the event of incorrect operation.
- To NFC 20-130.
- Comfortable grips.
- Extended handle for two-hand use.

	Capacity mm²	L mm	ΔΔ g
985966	4→ 10	255	500

Crimping pliers for tubular terminals with rotating dies

986095

- Detented 6-position rotating dies 6-10-16-25-35- 50 mm².
- Tool lever can be released during crimping.
- To NFC 20-130.

	Capacity mm²	L mm	ΔΔ g
986095	6 → 50	390	1185

Trigger-operated hydraulic crimping pliers for tubular terminals and sleeves

985913

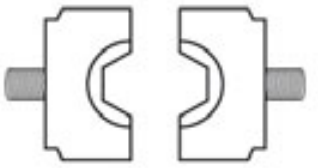
- To NFC.20-130.
- 35 kN.
- 5 to 8 mm adjustable stroke by rotating the notched ring to reduce the number of pump strokes for small cross sections.
- 360° rotating head.
- Automatic release with audible click when crimping complete.
- Release lever returns piston to its original position.
- Supplied in a case.

Hexagonal crimping dies

Hexagonal crimping dies

▷ Crimp conforms to NFC 20-130.
• For crimping pliers 985913.

	Die mm²	To NFC20130
985914	6	•
985915	10	•
985916	16	•
985917	25	•
985918	35	•
985919	50	•
985920	70	•
985921	95	•
985922	120	•
985923	150	•



Crimping pliers for open-barrel connectors

Crimping pliers for open-barrel connectors

985757

• 1.5 to 6 mm².

	L mm	ΔΔ g
985757	195	250

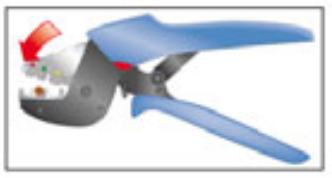
Crimping pliers for cable terminals

Maintenance crimping pliers for cable terminals

985895

• Complies with NFC 63-023.
• Stainless steel dies
• 5 patterns :
pattern no. 1 : 0.5 - 0.75 - 1 mm²
pattern no. 2 : 1.5 mm²
pattern no. 3 : 2.5 mm²
pattern no. 4 : 4 mm²
pattern no. 5 : 6 mm²
• Release catch always accessible.
• Soft feel.
• Ergonomic design for enhanced grip.
• Reverse crimping : terminal placed in the fixed jaw for greater efficiency and precision.

	Capacity Ø mm²	L mm	ΔΔ g
985895	0,5 → 6	230	490



Self-adjusting crimping pliers for cable terminals

985898

• Crimps : 0.14 - 0.25 - 0.5 - 0.75 - 1 - 1.5 - 2.5 - 4 - 6 mm².
• Ratchet system guarantees a secure crimp.
• Complies with NFC 63-023.
• Easy release in the event of incorrect operation.
• Comfortable grips.

	L mm	ΔΔ g
985898	210	500

Standard crimping pliers for cable terminals

985899

• End wire-cutter.

	L mm	Capacity mm²	⚖ g
985899	140	0,5 à 2,5	115

Production crimping pliers for cable terminals

• Easy release in the event of incorrect operation.
• Comfortable grips.

	Capacity mm²	Number of patterns	L mm	⚖ g
985754	0,25 → 2,5	2	195	250
985755	0,5 → 6	5	195	250
985756	4 → 10	3	255	500
985896	10 → 25	3	255	500
985897	35 → 50	2	255	500

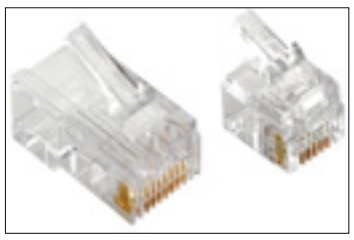
Crimping pliers for data transmission connectors

Crimping pliers for telephone connectors

985902

• These pliers come complete with a case and crimping die 986022 for RJ45 connectors.

	L mm	⚖ g
985902	205	450



Crimping dies for telephone connectors

	Ø	⚖ g
986014	RJ11	50
986015	RJ9 - RJ22	50
986022	RJ45	50
986026	MMJ	50

Crimping pliers for coaxial connectors

985758

BNC connectors RG58 - RG59 - RG62
• Precision die for crimping centre pin, sleeve and connector body.
• 5.36 - 5.46 for RG58.
• 6.43 - 6.53 for RG59, RG 62.
• 1.64 - 1.74 for the core.
• Safety ratchet ensures complete crimping.
• Conforms to UTE NFC 93 564.

	L mm	⚖ g
985758	195	250

Crimping pliers for Ethernet connectors

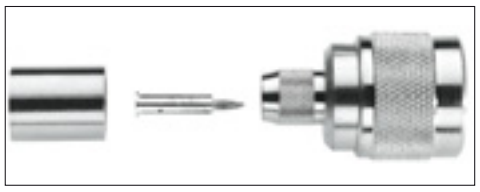
985901

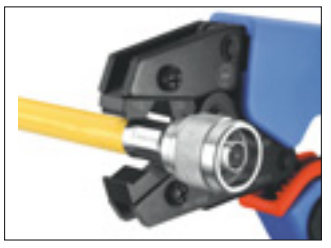
Ethernet connectors

• 2 patterns :

- 10.54 mm for the ferrule.
- 2.54 mm for the core.

	L mm	⚖ g
985901	195	250



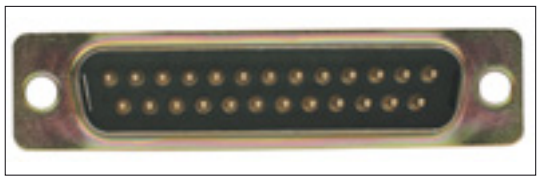


Crimping pliers for SUB-D connectors

985524

• Pliers with locator for increased precision during crimping.

	L mm	⚖ g
985524	195	250



Sets of terminals

"Electrical contractors" kit

449.Z3A

• Comprising crimping pliers 704382 and a selection of 20 types of insulated terminals and accessories.

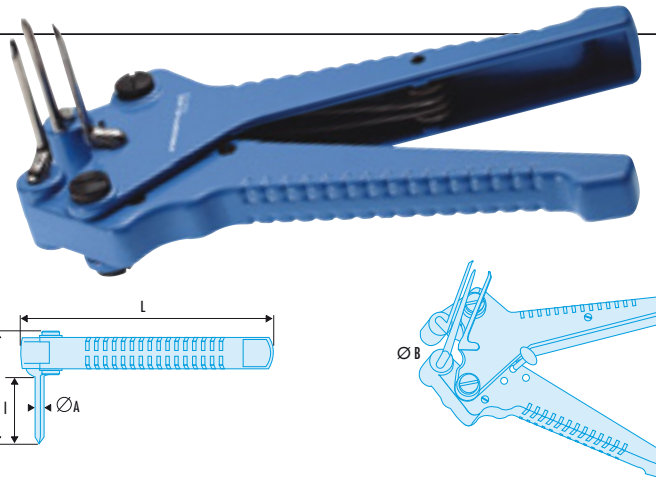
- eyes.
- forks.
- sleeves.
- male and female terminals.

⚖ : 1.85 kg.

Sleeving clamps

Sleeving clamps

	For wire Ø mm	Ø B (3 positions) mm			Ø A mm	L mm	l mm	H mm	⚖ g
985763	1,25 → 4,5	12	16	24	3,5	140	23	52	165
985764	1,75 → 9	13	18	24	4,5	140	30	56	165
985765	3 → 15	14	18	25	5,0	140	40	66	165
640171	10 → 28	19,5	22,5	30	10,0	150	56	82	149



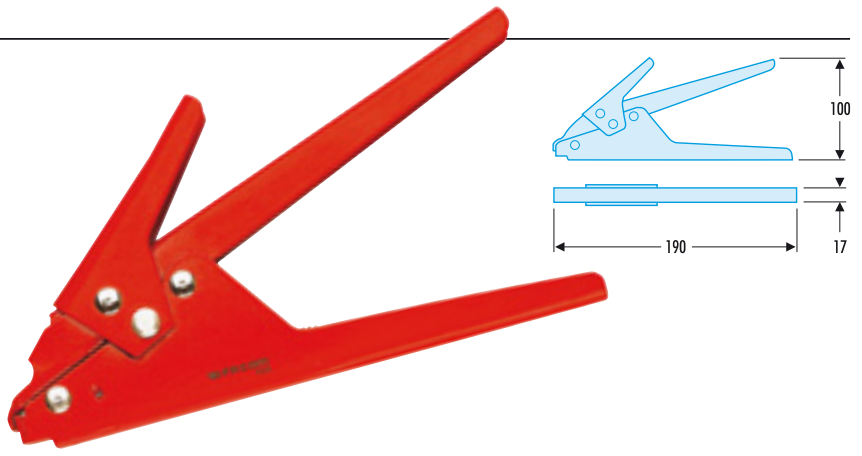
Pliers for plastic cable-ties

Pliers for plastic cable-ties

455B

- For all tie widths 2.4 to 9 mm.
- Strong, simple tools with good demultiplication.
- Long stroke for fast action.
- Tails cut separately to desired length.
- Replaceable blade and spring.

⚖ : 310 g.



Automatic pliers for plastic cable-ties

986075

- For cable tie widths 2.2 to 4.8 mm.

⚖ : 290 g.

Plastic ties

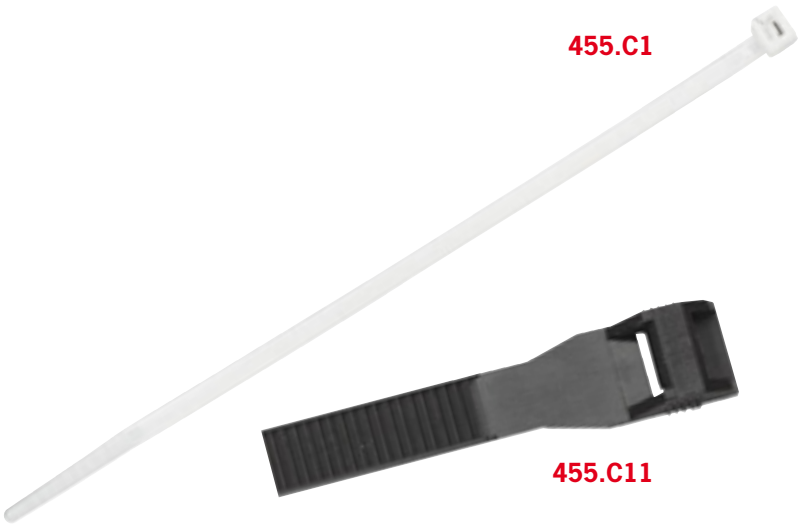
455C Plastic ties

- Self-locking head.
- High-strength.
- Two types :

- nylon 6.6 for indoor use.
- polyamide 12 for outdoor use.

455.C = Ties.
455.A = Tie.

	Ties kg max	Ties l x L mm	Ø max mm	Quantity per pack	Material	⚖ g
455.C1	18	2,5x100	22	250	Nylon 6.6	85
455.C2	25	3,4x145	40	250	Nylon 6.6	155
455.C3	35	4,8x185	50	100	Nylon 6.6	126
455.C11	40	9,0x183	45	50	Polyamide 12	145
455.C12	48	9,0x265	70	50	Polyamide 12	180
455.C13	48	9,0x355	95	50	Polyamide 12	235
455.A1	-	20x20x6	-	50	Nylon 6.6	26
455.A2	-	21x10x4	-	50	Nylon 6.6	48



Sets

Tie sets

Sets

• Each case contains a pair of tie fitting pliers 455.
• Dimensions : 325 x 280 x 55 mm.
■ 455.J1 Includes ties 455.C1, 455.C2, 455.A1 and 455.A2.
⚖ : 0.94 kg.
■ 455.J2 Includes ties 455.C2, 455.C3, 455.A1 and 455.A2.
⚖ : 1.01 kg.
■ 455.J3 Includes ties 455.C11 and 455.C12.
⚖ : 1.05 kg.

Bonding gun

Bonding gun

E.900A

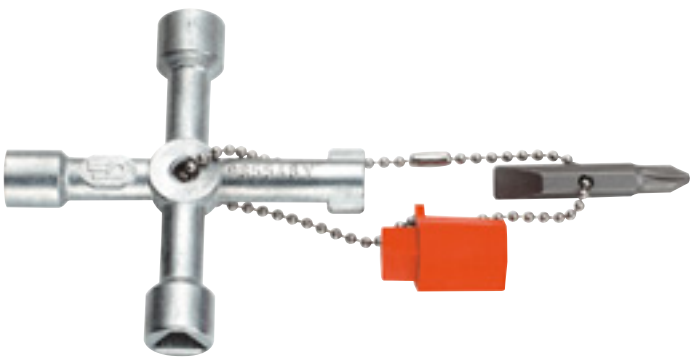
• For bonding plastics, synthetic foam, fabric, wood and laminates used in the building industry, furnishings, electrical and electronic assemblies, and garages.
• Power supply 110-240V (no switch).
• Maximum rating 45 W.
• Melt temperature : 206 °C.
• Pre-heat time : 7 to 10 min.
• Supplied in a cardboard box with three universal bonding sticks.
• Dimensions : 260 x 210 x 60 mm.
⚖ : 620 g.
■ E.905J50 : "Refractory" bonding sticks :
• Pack of 50 bonding sticks : ∅ 11.3 mm, length 90 mm.
■ E.906J100 : "Universal" bonding sticks :
• Pack of 100 bonding sticks : ∅ 11.3 mm, length 200 mm.

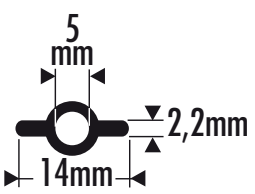
Four-way wrench for cabinets

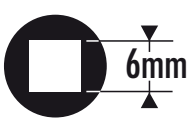
Four-way wrench for cabinets

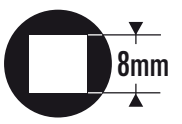
985548

• Supplied with a 6-point adaptor for ☐ 1/4" (6.35 mm) bits and a slotted 7 mm / Phillips® no. 2 double-ended bit.
⚖ : 75 g.





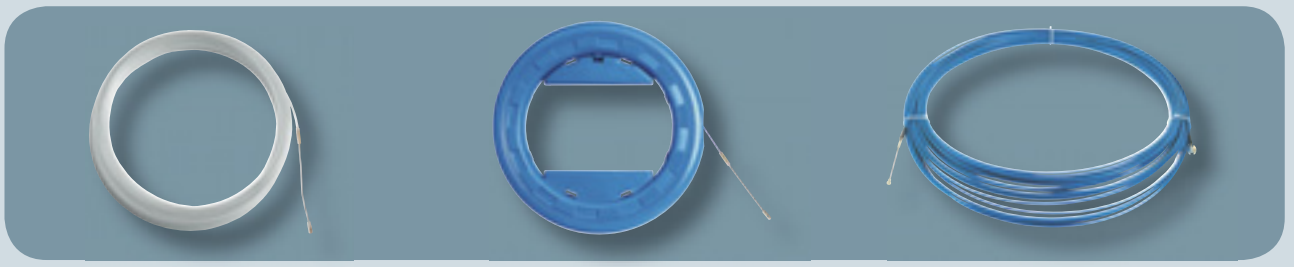


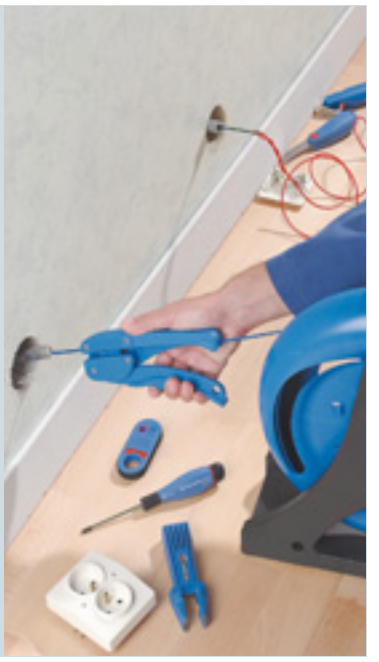


Nylon fish tapes

Fish tapes

3 TYPES OF WIRE PULLER





Nylon

• Relatively uncongested cable ducts with average bends, Distance < 20 m.
• Very high tensile strength.

Glass fibre

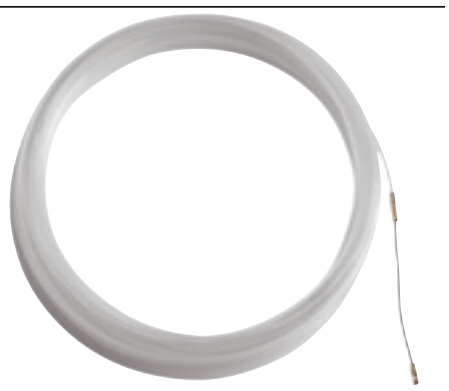
• Congested cable ducts with multiple bends, 20 m < distance < 40 m.
• Material has excellent dynamic properties.
• Maintains its efficiency after passing an obstacle.

Nylon-coated steel

• Long runs in highways 30 m < distance < 50 m.
• Excellent dynamic properties pushing force for tubes Ø 24 mm and over.

Nylon fish tapes

• All of our nylon fish tapes come complete with :
- a flexible fish tape leader
- a pulling eye.
• Breaking force : 120 kN.

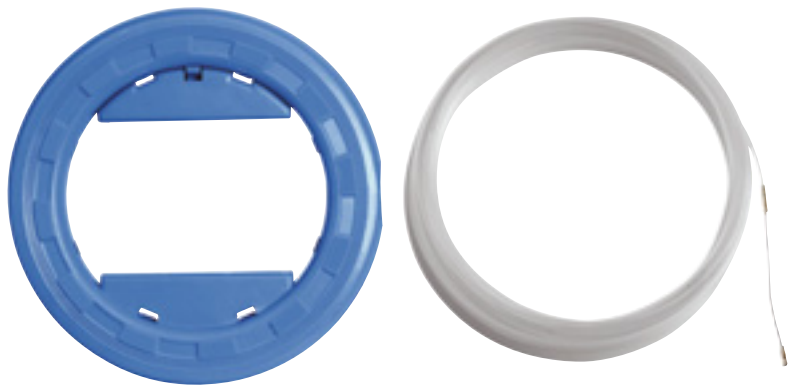


	Description	Ø mm
629731	Fish tape 10 m long	4
629757	Fish tape 20 m long	4

Nylon fish tape 20 m long + carry case

669273

• All of our nylon fish tapes come complete with :
- a flexible fish tape leader
- a pulling eye.
• Breaking force : 120 kN.
• For use in relatively uncongested ducts with average bends. Distance < 20 m.

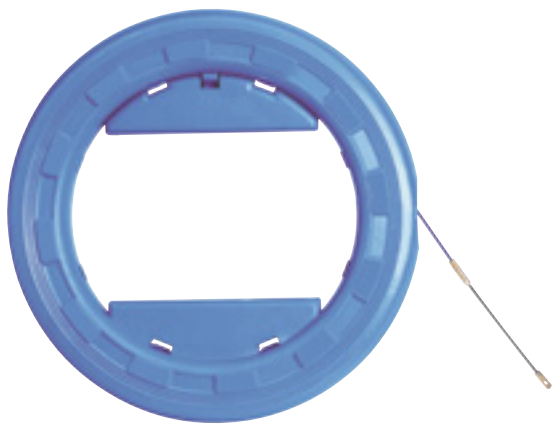


	L m	Ø mm
669273	20	4

Glass fibre fish tapes

Glass fibre fish tapes

• All our glass fibre fish tapes are supplied in a carry case and come complete with :
- a flexible fish tape leader
- a pulling eye.
- a repair kit.
• Breaking force : 120 kN.



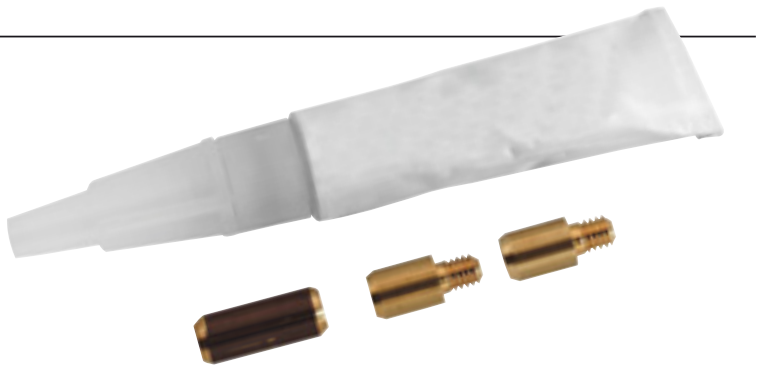
	Description	Ø mm
629845	Fish tape 20 m long	3
629853	Fish tape 30 m long	3
629861	Fish tape 40 m long	3

Accessories for nylon and glass fibre fish tapes

Glass fibre fish tape repair kit

629888

- 2 threaded ends.
- 1 joint.
- 1 tube of special adhesive.



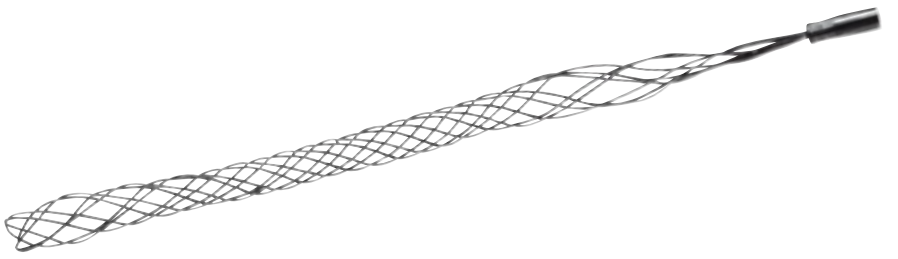
Pulling grips

629829

- Pulling grip for cable ∅ 4 → 6 mm.

629837

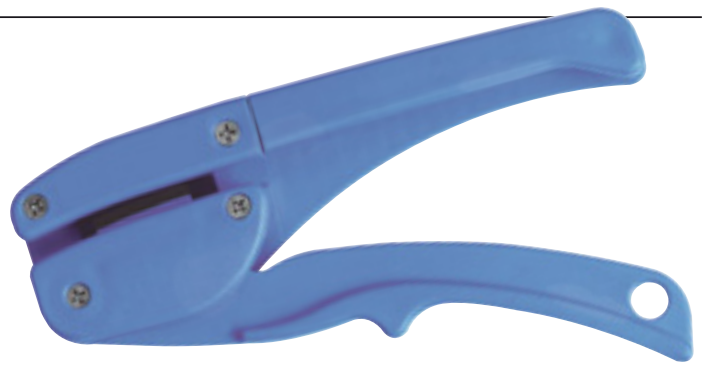
- Pulling grip for cable ∅ 6 → 12 mm.



Fish tape pulling pliers

629773

- Impact-resistant material.
- For easy pulling without damaging the fish tape or injuring the operator's hand.



Plastic reel

629992

- ∅ 320 mm.
- Accessory compartment.
- For fish tapes 10, 20, 30 or 40 m long.

Lubricant

629984

- To be sprayed on cable before pulling.
- Makes pulling easier.
- 1 litre.

Consumables for nylon and glass fibre fish tapes

Flexible leader for nylon and glass fibre fish tapes

629781

• M4 female threaded section.

Glass fibre fish tape connecting sleeve

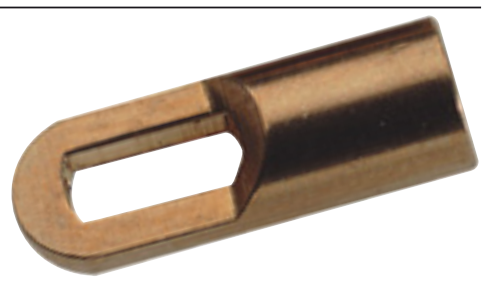
629802

• Breaking force : 100kN.

Pulling eye

629790

• Female thread.
• Breaking force : 120 kN.



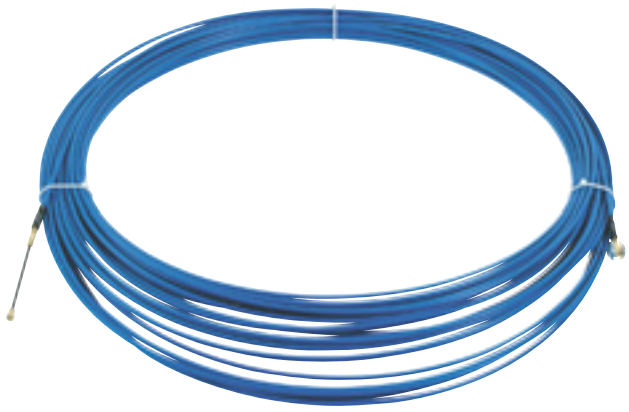
Nylon-coated steel fish tape

629896

• Supplied with :
- a flexible fish tape leader
- a guide wheel with connector
- a snap hook.

• Breaking force : 200 kN.
• High pulling capacity
• Ideal for long cable ducts.

	Description	Ø mm
629896	Fish tape 50 m long	6



Accessories for nylon-coated steel fish tapes

Pulling grips

629917

• Pulling grip for cable Ø 12 → 18 mm.

629925

• Pulling grip for cable Ø 18 → 24 mm.

Swivel joint

629976

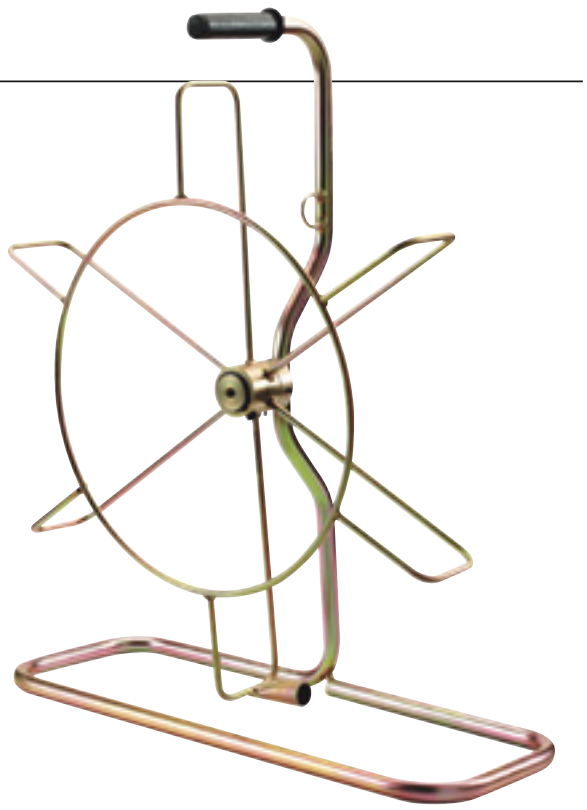
• Ø 12 mm, M5 pitch.
• For connecting two nylon-coated steel fish tapes together.

Wire-pullers and accessories

Tropic-proof steel reel

629909

- Resistant to heat and humidity.
- Quickly guides and coils the fish tape.
- Ideal for long runs.
- Ball bearing shaft support.
- Stores up to 150 m of nylon-coated steel fish tape.



Lubricant

629984

- To be sprayed on cable before pulling.
- Makes pulling easier.
- 1 litre.

Flexible fish tape leader

629933

- Semi-spherical brass steel head.
- M5 female threaded section.

Consumables for nylon-coated steel fish tapes

Guide wheel

629941

- Helps the fish tape to run, particularly in cement ducts.

Connector

629950

- Breaking force : 400 kN.

Snap hook

629968

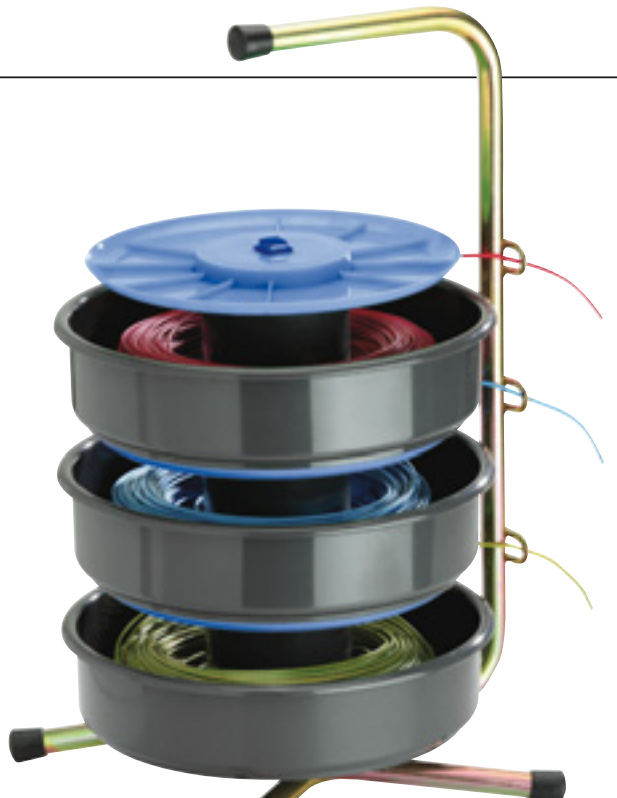
• Breaking force : 400 kN.

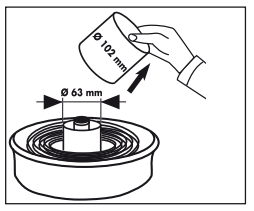
Wire reel stands

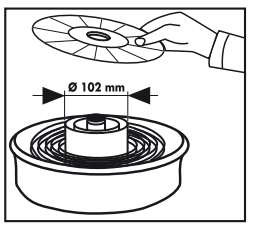
Three-reel stand

703064

• Three reel stand made of impact-resistant plastic.
• Each reel stand can be individually transported.
• Compact, lightweight stand can fit in vehicle trunk compartments.
• The wires do not become entangled and are easy to unwind.
• Quick wire selection.
• Designed to support standard 290 mm diameter reels for wire 0.5 to 4 mm².
• Cables not included.







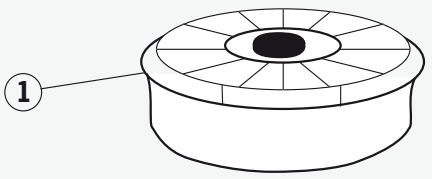
Six-reel stand

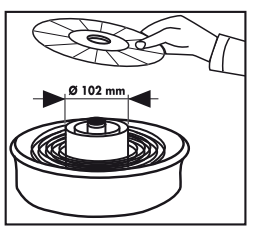
703099

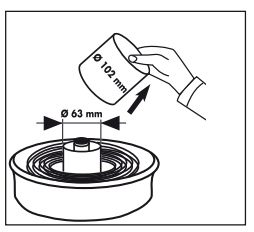
• Six reel stand.
• Each reel stand can be individually transported.
• Compact, lightweight stand can fit in vehicle trunk compartments.
• The wires do not become entangled and are easy to unwind.
• Quick wire selection.
• Designed to support standard 290 mm diameter reels for wire 0.5 to 4 mm².
• Cables not included.

703064-703099

	①
703064	640411
703099	640411







HOLE PUNCH FOR ISO HOLE SIZES

Hole punches

- 3 section ISO splitting punch.
- Capacity ISO 12 to ISO 63.
- Blanks split into three, thus preventing the actuating screw from jamming.
- Cutting-point geometry ensures longer life.
- Available with or without a thrust-bearing screw.

1 - FOR ORDINARY STEEL ST37

- Max. sheet thickness : 2 mm.
- Pilot hole : - Screw Ø + min. 0.2 mm.

2 - FOR STAINLESS STEEL

- Max. stainless steel plate thickness :
- 2 mm with screw Ø 11.1 mm.
- 3 mm with screw Ø 19 mm.

- Pilot hole :
- Screw Ø + min. 0.2 mm.

- High alloy cutting edges for increased durability.

HOLE PUNCH FOR PG HOLE SIZES

- Capacity : PG7 to PG48.

3 - FOR ORDINARY STEEL ST37

- 3-point punch.
- Circular blank automatically drops out after punching with a couple more turns of the wrench.

- Max. thickness :
- 2 mm with screw Ø 9.5 mm.
- 3 mm with screw Ø 19 mm.

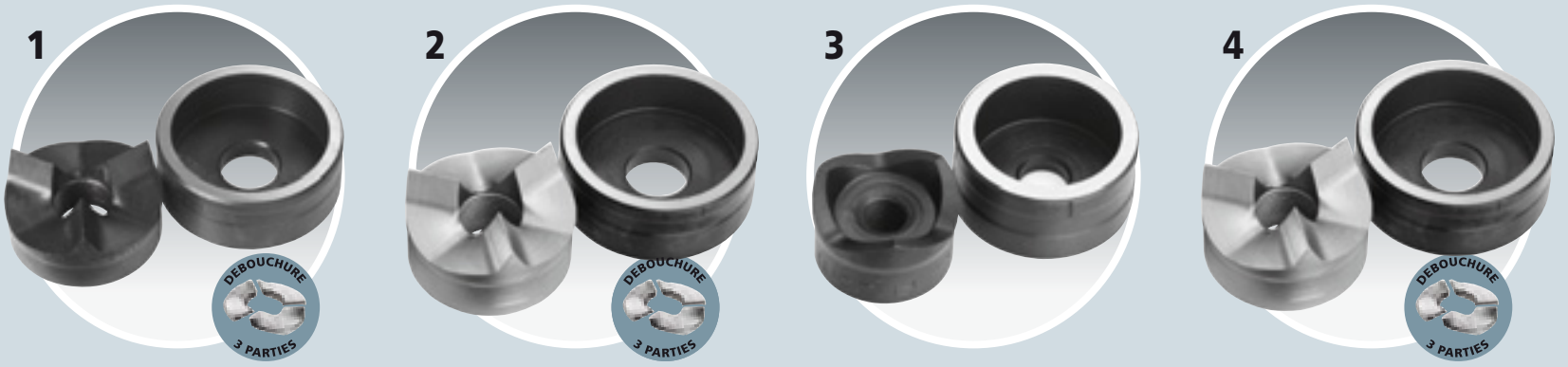
- Pilot hole :
- Screw Ø + min. 0.2 mm.

4 - FOR STAINLESS STEEL

- Max. stainless steel sheet thickness :
- 2 mm with screw Ø 9.5 mm.
- 3 mm with screw Ø 19 mm.

- Pilot hole :
- Screw Ø + min. 0.2 mm.

- High alloy cutting edges for increased durability.



FACOM HOLE PUNCHES CAN BE OPERATED IN THE FOLLOWING WAYS :

With a wrench

- For hole punches fitted with a thrust-bearing screw.

With a hydraulic driver

- For fast hole punching.

With a hydraulic pump

- For fast and effortless hole punching.

DIMENSIONS (mm) :

PG7	PG9	PG11	PG13	PG16	PG21	PG29	PG36	PG42	PG48
12.7	15.2	18.6	20.4	22.5	28.3	37	47	54	60

ISO12	ISO16	ISO20	ISO25	ISO32	ISO40	ISO50	ISO63
12.5	16.5	20.5	25.5	32.5	40.5	50.5	63.5

CUSTOM SIZE KNOCKOUT PUNCH

- Please consult us for your specific punch size or shape requirements.

ISO EN 50262 REQUIREMENTS

- This international standard specifies the electrical functions and performance of cable entries.
- It stipulates that only ISO metric threads are to be used for cable glands since September '99.
- The use of PG threads will still be allowed for the maintenance of existing equipment despite no longer being covered by any national or international standard.

Remember to apply lubricant to the screw/pin for optimum operation of the punch.

Standard circular punches for stainless steel sheet

Punches for PG size holes with actuating screw

- For cutting circular holes in plastic and sheet metal.
- Operated by wrench or ratchet and socket.
- Cuts holes quickly, and cleanly.
- For all PG diameters from PG 7 to PG 48.
- Parts must be lubricated for correct operation.

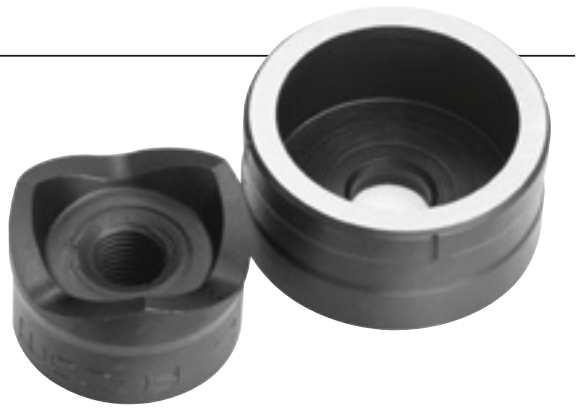
RECOMMENDATION : the blank will drop more easily if you apply a couple more turns of the wrench after completing the cut.

- Supplied complete with punch, die and screw with thrust bearing.

	PG	Ø PG/mm	Pilot hole Ø/mm	Width across flats (mm)/actuating screw	Max./thickness Mild/steel
985968	7	12,7	11	17	2 mm
985969	9	15,2	11	17	2 mm
985972	11	18,6	11	17	2 mm
985974	13	20,4	11	17	2 mm
985978	16	22,5	11	17	2 mm

	PG	Ø PG/mm	Pilot hole Ø/mm	Width across flats (mm)/actuating screw	Max./thickness Mild/steel
985984	21	28,3	11	17	3 mm
985995	29	37,0	22	27	3 mm
986001	36	47,0	22	27	3 mm
986005	42	54,0	22	27	3 mm
986009	48	60,0	22	27	3 mm

Punches and dies for PG size holes without screw



- For cutting circular holes in plastic and sheet metal.
- Operated by hydraulic driver 643743 (single position) or 986108 (dual position) or hydraulic pump and cylinder 985944.
- Cuts holes quickly, and cleanly.
- For all PG diameters from PG 7 to PG 48.
- Parts must be lubricated for correct operation.

RECOMMENDATION : the blank will drop more easily if you apply a couple more stokes of the pump after completing the cut.

- Supplied with punch and die.

	PG	Ø PG/mm	Pilot hole Ø/mm	Actuating pin	Max./thickness Mild/steel
985734	7	12,7	11	986064	2 mm
985801	9	15,2	11	986064	2 mm
985817	11	18,6	11	986064	2 mm
985818	13	20,4	11	986064	2 mm
985820	16	22,5	11	986064	2 mm

	PG	Ø PG/mm	Pilot hole Ø/mm	Actuating pin	Max./thickness Mild/steel
985824	21	28,3	22	986065	3 mm
985826	29	37,0	22	986065	3 mm
985829	36	47,0	22	986065	3 mm
985836	42	54,0	22	986065	3 mm
985933	48	60,0	22	986065	3 mm

Standard circular punches for ISO size holes

Punches for ISO size holes with actuating screw

- For cutting circular holes in plastic and sheet metal.
- Operated by wrench or ratchet and socket.
- Cuts holes quickly, and cleanly.
- For all ISO diameters from M12 to M63.
- Parts must be lubricated for correct operation.

SPECIAL FEATURE : the blank is split into three parts and drops automatically at the end of the cutting operation.

- Supplied complete with punch, die and screw with thrust bearing.

	ISO	Ø ISO/en mm	Pilot hole Ø/mm	Width across flats (mm)/actuating screw	Max./thickness Mild/steel
693716	M12	12,5	11	17	2 mm
697590	M16	16,2	11	17	2 mm
693695	M20	20,4	11	17	2 mm
697602	M25	25,4	11	17	2 mm
697611	M32	32,5	22	27	2 mm
697645	M40	40,5	22	27	2 mm
697637	M50	50,5	22	27	2 mm
697653	M63	63,5	22	27	2 mm

Punches and dies for ISO size holes without screw

- For cutting circular holes in plastic and sheet metal.
- Operated by hydraulic driver 643743 (single position) or 986108 (dual position) or hydraulic pump and cylinder 985944.
- Cuts holes quickly, and cleanly.
- For all ISO diameters from M12 to M63.
- Parts must be lubricated for correct operation.
- SPECIAL FEATURE : the blank is split into three parts and drops automatically at the end of the cutting operation.
- Supplied with punch and die.

⊃	ISO	Ø ISO/en mm	Pilot hole Ø/mm	Actuating pin	Max./thic-kness Mild/steel
693708	M12	12,5	11	657539	2 mm
664499	M16	16,2	11	986064	2 mm
693687	M20	20,4	11	986064	2 mm
664510	M25	25,4	11	986064	2 mm
664536	M32	32,5	22	986064	2 mm
664501	M40	40,5	22	986065	2 mm
664528	M50	50,5	22	986065	2 mm
664544	M63	63,5	22	986065	2 mm

Standard circular punches for stainless steel sheet

PG Plus punches and dies for stainless steel sheet

- For cutting circular holes in mild and stainless steel sheet.
- New punch geometry for longer life.
- Operated by hydraulic driver 643743 (single position) or 986108 (dual position) or hydraulic pump and cylinder 985944.
- Cuts holes quickly, and cleanly.
- For all PG diameters from PG9 to PG 48.
- Parts must be lubricated for correct operation.

SPECIAL FEATURE : the blank is split into three parts and drops automatically at the end of the cutting operation.

- Supplied with punch and die.

⊃	PG plus	Ø PG/mm	Pilot hole Ø/mm	Actua-ting pin	Max./thickness Stainless sheet
697434	9	15,2	11,5	657547	2 mm
697485	11	18,6	11,5	657547	2 mm
697493	13	20,4	11,5	657547	2 mm
697354	16	22,5	11,5	657547	2 mm
697362	21	28,3	22	986065	3 mm
697371	29	37,0	22	986065	3 mm
697389	36	47,0	22	986065	3 mm
697397	42	54,0	22	986065	3 mm
697418	48	60,0	22	986065	3 mm

ISO Plus punches and dies for stainless steel sheet

- For cutting circular holes in mild and stainless steel sheet.
- New punch geometry for longer life.
- Operated by hydraulic driver 643743 (single position) or 986108 (dual position) or hydraulic pump and cylinder 985944.
- Cuts holes quickly, and cleanly.
- For all ISO diameters from M16 to M63.
- Parts must be lubricated for correct operation.

SPECIAL FEATURE : the blank is split into three parts and drops automatically at the end of the cutting operation.

- Supplied with punch and die.

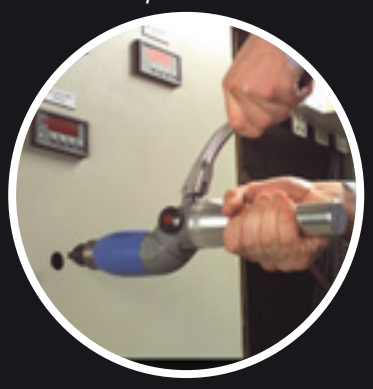
	ISO PLUS	Ø ISO/en mm	Pilot hole Ø/mm	Actuating pin	Max./thickness Stainless sheet
697469	M16	16,2	11,5	657547	2 mm
697477	M20	20,4	11,5	657547	2 mm
697506	M25	25,4	11,5	657547	2 mm
697514	M32	32,5	22	986065	3 mm
697522	M40	40,5	22	986065	3 mm
697549	M50	50,5	22	986065	3 mm
697531	M63	63,5	22	986065	3 mm

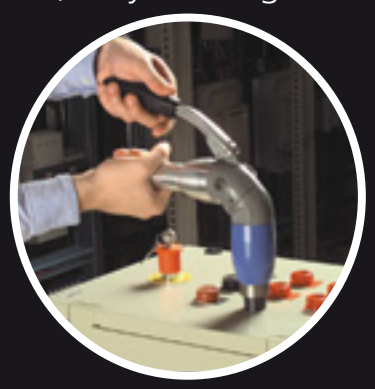
Hydraulic hole punch equipment

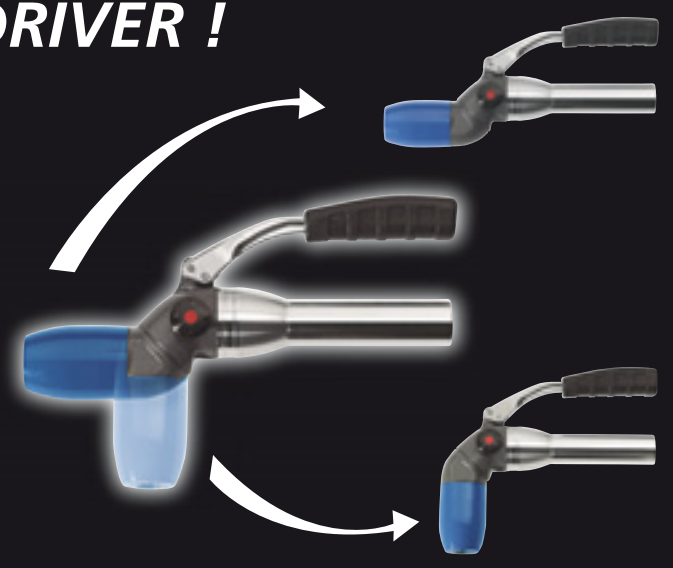
986108 Hydraulic punch driver

ROTATING HEAD HYDRAULIC DRIVER !

- *Two operating positions.*
- *Fast cutting, short piston stroke.*
- *Demultiplication of effort for fast, easy working.*







Dual-position hand-operated hydraulic driver and accessories

986052

- Set supplied in a plastic box, comprising :

- 986108 dual-position hand-operated hydraulic driver.
- 986110 spacer ring no. 1.
- 986111 spacer ring no .2.
- 986064 actuating pin 9.5 mm.
- 986065 actuating pin 19 mm.
- 657539 actuating pin 6 mm.
- 986051 drill bit (11 mm).

- For cutting holes 12.5 to 63 mm diameter in sheet steel.
- Cylinder force 7 kN.
- Pressure 700 bars.
- Piston stroke 20 mm.
- Pressure limiter.

⚖ : 2.45 kg.

Single-position hand-operated hydraulic driver and accessories

653255

- Set supplied in a plastic box, comprising :
- 643743 Single-position hand-operated hydraulic driver.
- 986110 spacer ring no. 1.
- 986111 spacer ring no .2.
- 986064 actuating pin 9.5 mm.
- 986065 actuating pin 19 mm.
- 657539 actuating pin 6 mm.
- 986051 drill bit (11 mm).
- For cutting holes 12.5 to 63 mm diameter in sheet steel.
- Piston stroke 20 mm.
- Cylinder force 7 kN.

⚖ : 2.35 kg.

Hand-operated hydraulic pump

985944

- Supplied in steel case complete with :
- 1 hose and a set of 4 spacer sleeves.
- Hydraulic screws 19 mm and 9.5 mm.
- Drill bit (11 mm).
- Quick connect hydraulic cylinder.
- Pressure : 700 bars.

Single-position hand-operated hydraulic driver without accessories

643743

- Driver without accessories.
- Packaged in a cardboard box.
- Piston stroke 20 mm.
- Cylinder force 7 kN.

⚖ : 2.2 kg.

Dual-position hand-operated hydraulic driver without accessories

986108

- Head pivots 180° providing two working positions :

1 - horizontal for working directly on the cabinet.

2 - turned through 90° for working on a bench.

- Driver supplied on its own without accessories.
- Packaged in a cardboard box.
- Piston stroke 20 mm.
- Cylinder force 7 kN.
- Pressure 700 bars.
- Pressure limiter.

⚖ : 2.3 Kg.

Accessories for hole punches

ISO size step drill Ø 6.5 to 40.5 mm

678006

- For precision-drilling straight bores in all materials.
- No pilot hole required.
- Parallel shank with 3 flats for positive rotation.
- Diameter identification markings.
- 678014 : PG size step drill.
- For drilling steel sheet up to 4 mm thick.
- Shank diameter 10 mm.

	Ø min - max mm	A mm	L mm	ΔΔ g
678006	6,5-8,5-10,5-12,5-16,5-20,5-25,5-29-32,5-36,5-40,5	10	96	310

PG size step drill Ø 6.5 to 40.5 mm

678014

- For precision-drilling straight bores in all materials.
- No pilot hole required.
- Parallel shank with 3 flats for positive rotation.
- Diameter identification markings.
- 678014 : PG size step drill.
- For drilling steel sheet up to 4 mm thick.
- Shank diameter 10 mm.

	Ø min - max mm	A mm	L mm	ΔΔ g
678014	6-9-12,5-15,2-18,6-20,4-22,5-26-28,3-30,5-34-37	10	100	300

11 mm diameter drill bit

986051

- Drill bit Ø 11 mm for drilling pilot holes.

Lubricating paste

986107

- For lubricating screws and drive shafts.

Pump only

985945

Hydraulic cylinder

985946

Hydraulic hose 1.8 m long

986062

Hole punch sets and accessories

Single-position hydraulic driver and PG size hole punch set

985510

• Hole punch set comprising :
- 1 single-position hydraulic driver.
- 2 drive shafts ∅ 9.5 mm and ∅ 19 mm.
- 2 spacers : no. 1 and no. 2.
- 1 drill bit ∅ 11 mm.
- storage case.
- set of 10 circular hole punches ∅ 12.7 mm to ∅ 60 mm : PG 6, 7, 9, 11, 13, 16, 21, 29, 36, 42, 48.
- 1 jar of lubricating paste.

⚖ : 2.35 kg.

Single-position hydraulic driver and ISO size hole punch set

663621

• Hole punch set comprising :
- 1 single-position hydraulic driver.
- 3 drive shafts 6 - 9.5 and 19 mm.
- 2 spacers : no. 1 and no. 2.
- 1 storage case.
- 1 drill bit ∅ 11 mm.
- set of 8 ISO diameter hole punches from M12 to M50 : M 12, 16, 20, 25, 32, 40, 50, 63.
- 1 jar of lubricating paste.

Dual-position hydraulic driver and PG size hole punch set

587110

• Hole punch set comprising :
- 1 dual-position hand-operated hydraulic driver.
- 2 drive shafts Ø 9.5 mm and Ø 19 mm.
- 2 spacers : no. 1 and no. 2.
- 1 drill bit Ø 11 mm.
- 1 storage case.
- set of 10 circular hole punches Ø 12.7 mm to Ø 60 mm : PG 7, 9, 11, 13, 16, 21, 29, 36, 42, 48.
- 1 jar of lubricating paste.

Dual-position hydraulic driver and ISO size hole punch set

658689

• Hole punch set comprising :
- 1 dual-position hydraulic driver.
- 3 drive shafts 6 - 9.5 and 19 mm.
- 2 spacers : no. 1 and no. 2.
- 1 storage case.
- 1 drill bit Ø 11 mm.
- set of 8 ISO diameter hole punches from M12 to M50 : M 12, 16, 20, 25, 32, 40, 50, 63.
- 1 jar of lubricating paste.

PG size hole punch set

661600

• Hole punch set comprising :
- 1 storage case.
- 1 drill bit Ø 11 mm.
- set of 10 PG diameter hole punches Ø 12.7 mm to Ø 60 mm : PG 7, 9, 11, 13, 16, 21, 29, 36, 42, 48.
- 1 jar of lubricating paste.
- 2 drive screws Ø 9.5 and 19 mm.

ISO size hole punch set

702571

• Hole punch set comprising :
- 1 drill bit Ø 11 mm.
- set of 8 ISO diameter hole punches from M12 to M50 : M 12, 16, 20, 25, 32, 40, 50, 63.
- 1 jar of lubricating paste.
- 3 drive screws Ø 6 - 9..5 and 19 mm.
- 1 storage case.

Testers

Multimeters and testers

THE RIGHT TESTER FOR YOUR NEEDS !

Simple and easy to read

- *A comprehensive range. Chose the model that best meets your needs.*
- *Simple, easy to read function selector for minimum risk of error.*
- *Wide screen providing clear, detailed readings*

Safe

- *Meets safety standard requirements*
- *Flexible safety leads.*
- *Protective cover.*
- *Simple, explicit instructions.*

Digital display multimeter

711

- Fuse-protected circuits 0.4A HRC - 600 V; 12A HRC - 600 V.
- Performs the following readings :

- DC and AC voltages 0.1 mV to 600 V.
- DC and AC current 10 µA to 10 A.
- Resistance 0.1 Ω to 40Ω.
- Frequency 0.01 Hz to 200 kHz.
- Capacitance 1 pF to 40 µF.
- Diode test.
- Continuity test.

- Screen display hold key.
- Backlit screen.
- Automatic stop.
- Bar graph.
- Double insulated ⧈ IEC 1010-1.
- Protection rating IP 50.
- Powered by two 1.5V batteries (type R6).
- Supplied complete with protective cover and batteries
- Dimensions : 177 x 64 x 42 mm

⚖ : 575 g.

Clip-on ammeter

711P.500

- Suitable for DC and AC current measurements.
- Simple to use without interrupting or disturbing the circuit.
- For use with multimeter 711 in the mV position.
- Capacity : 0.5 to 600 A.

⚖ : 535 g.

Multimeter, current clamp and thermometer

712

- Automatic detection AC/DC voltmeter.
- Ohmmeter, diode and continuity testing with audible beep.
- 400 A AC/DC current clamp, automatic detection.
- Thermometer : ambient temperature.
- Supplied in a pouch, leads and battery included.

⚖ : 660 g.

Automatic AC/DC detection

1. Stored readings, lead resistance compensation, automatic reset, display hold,
automatic selection of measuring range.
2. Min/Max key.
3. Backlit screen.

New

Combined electronic thermometer

DX.T10

- The DX.T10 can perform either non-contact temperature measurements using the infrared thermometer in conjunction with the laser pointer, or contact temperature measurements by connecting it to a type K thermocouple.
Adjustable emissivity.

	Length mm	Width mm	Height mm	⚖ g
DX.T10	173	60,5	38	225

DX.12 Temperature probes

	Description
DX.12-06	Flexible probe
DX.12-08	Bracelet probe
DX.12-11	Standard needle probe
DX.12R	Extension
DX.12-15	Surface contact probe
DX.12-17	Air probe

Multifunction voltage detector

SAFE AND SIMPLE TO USE !

Complies with IEC 61243-3 and the requirements of the collection of general provisions for electrical safety UTE C 18-510-1.
Check the absence or presence of voltage before starting work.
Quick testers 709 and 701A can also perform routine electrical tests.

Handy :

- *19 mm testing tip spacing (for breakers, sockets, etc.).*
- *Testing tips stored in the back of the tester.*
- *Backlit.*

Voltage tester

709

• Safety voltage detector multimeter complying with IEC 61010-1 600V cat.III and IEC 61243-3 (Voltage detectors).
- 2,000 point backlit digital display with Hold function.
- Auto-test of the 9 V battery and the complete tester, from the testing tips to the cord, the electronics, etc.
- Testing tip storage system.
- Automatic AC/DC range selection.
- Automatic ON/OFF.
- 19mm testing tip spacing (for breakers, sockets,.)
- Phase/neutral identification (with one hand !).
- External use : IP 65.
- Supplied with wrist strap
• Characteristics :
- Voltage testing : 12 to 690V AC/DC and 750V DC with warning buzzer for voltages over 50 V.
- Continuity sound test R < 2kΩ.
- Operating frequency : DC 50-60 Hz.
- Measurement of resistance up to 2 kΩ.
- Power supply : 6F22 9V battery provided.
• Dimensions (mm) : 163 x 63.6 x 40.
⚖ : 210 g.

Multi-function tester

701A

• Multi-function tester.
• Used to check the presence of voltage on a circuit before starting work, in accordance with NF EN 61010-600V cat3 and IEC 61243-3 (Voltage detectors).
• Phase/neutral identification.
• Continuity test.
• 30mA differential circuit-breaker test.
⚖ : 205 g.

Facom VSE 1,000 V insulated tools

A COMPREHENSIVE RANGE OF TOOLS FOR WORKING ON OR NEAR LIVE COMPONENTS

"Certified" safety

Correct use of insulated tools.

ALWAYS *Wear insulating gloves and eye protection.Check insulation is sound before using a tool.*

- ***Never use a tool with cracked, cut or damaged insulation in any way.***
- *Discard tools if their insulation looks unsafe.*
- *Don't alter the insulation.*
- *Don't let other people use your insulated tools.*
- *Always use the correct tool.*
- *Check that the tool bears standard and approval markings.*
- *Read safety recommendations and keep the instructions.*

These products come with safety recommendations

Beware of electrical hazards.

- ***Prevent damage to insulation from :***
  - *Heat (-20 to 70°C working temperature).*
  - *Cuts or perforations.*
  - *Chemicals.*
- ***Visually check the insulation before use.***
- ***Wear insulating gloves and eye protection.***

2-colour insulation :
Orange = safe
Yellow = STOP

Basic tool
- *Facom performance and safety.*

Insulation
- *Certified and accredited Facom production site.*
- *Tested and approved products.*

"2-colour warning" insulation :
- *ORANGE = 1,000 V protection*
- *YELLOW VISIBLE = STOP and change tool.*

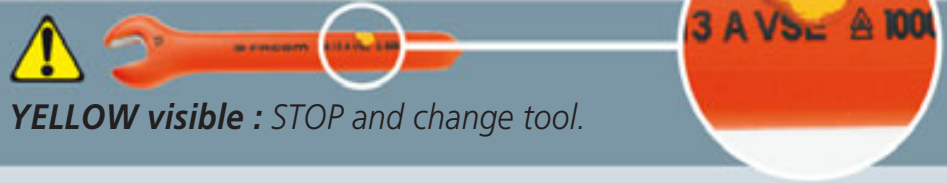
Generously-sized guards
- *Hand stays clear of the metal.*

Ribbing on flexible insulation
- *More secure grip.*

Hot markings
- *Permanent safety data.*
- *Traceability.*

Safety colour coding

ORANGE : *1,000 V protection*

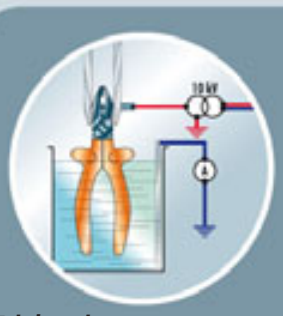


YELLOW visible : *STOP and change tool.*

Tools to EN 60900 specifications

Individual production test :

- *Each and every tool is tested to 10,000V for 10 seconds at the end of the manufacturing cycle.*



Dielectric test

- *After 24 hours immersion, the tool is wiped and tested to 10,000 V for 3 minutes between metal and sheath surface. Leakage current should not exceed specified limits.*

Penetration test.

- *After a penetration test on the most vulnerable part of the tool, followed by heating and cooling, no break-down or flashover should occur when 5,000 volts is applied for a period of 3 minutes.*

Insulation adhesion test

- *A 50 kg tear test is carried out for 3 minutes at ambient temperature on a tool heated to 70°C for 168 hours. Sheath and guard should remain bonded to the metal.*

Non-flammability test

- *After exposure to a flame for 10 seconds, flame spread over the tool should not exceed 120 mm high within the next 20 seconds.*

Impact test

- *A standard force is repeatedly applied to the handle end of a tool cooled to -25°C for 2 hours. The sheathing should not crack.*

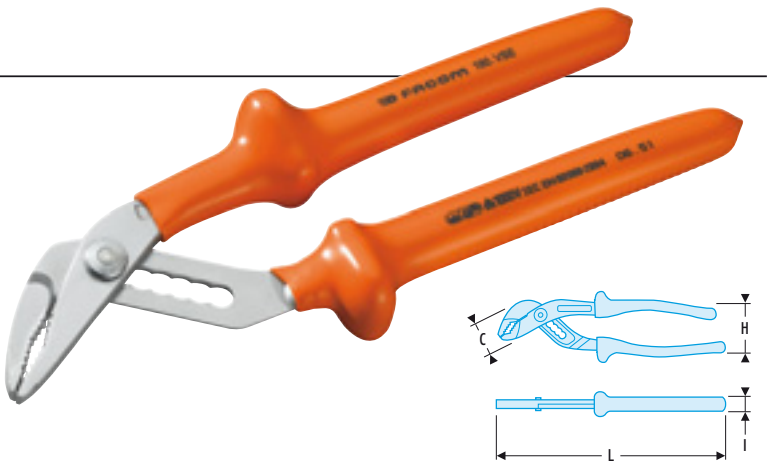
Multigrip pliers

Multigrip pliers

180.VSE

▷ ISO 8976, DIN ISO 8976, NF ISO 8976, NF EN 6090, ASME B 107.23 M.
• "2-colour warning" insulation.

	C mm	L mm	l mm	H mm	g
180.VSE	40	250	35	85	360



Cutting pliers

FACOM VSE 1000 VOLTS®

1000 VOLTS EN 60900

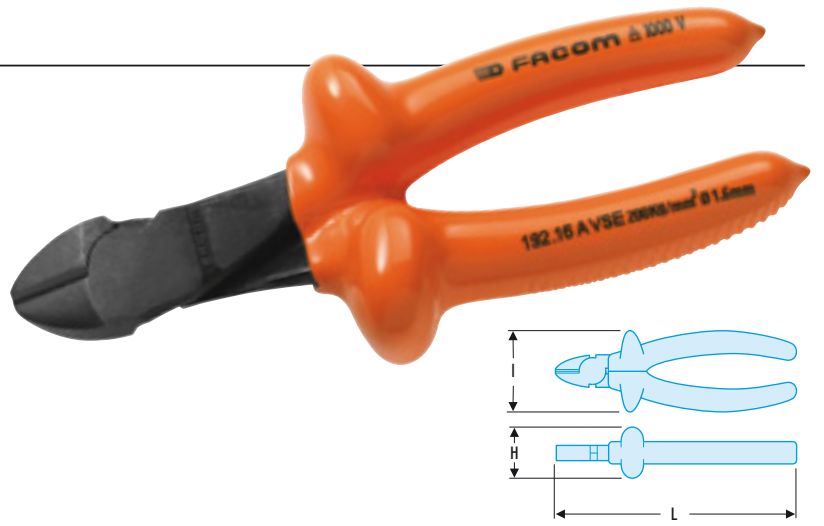
Tools built for electrical safety to European standard EN 60900. For working on live components up to 1,000V AC and 1,500V DC.

SAFETY COLOUR-CODING	
	ORANGE *: 1000 volts protection*
	YELLOW VISIBLE *: STOP and change tool.*

192.AVSE Diagonal cutters for hard wire

▷ ISO 5749, DIN 5238, DIN ISO 5749, NF ISO 5749, NF EN 6090.
• Cutting edges heat-treated to exceed 60 HRc hardness.
• "2-colour warning" insulation.
• Burnished nose.

	L mm	l mm	H mm	Ø mm 200 kg/mm²	g
192.14AVSE	145	70	30	1,4	210
192.16AVSE	165	75	35	1,6	270
192.18AVSE	185	75	40	1,8	370

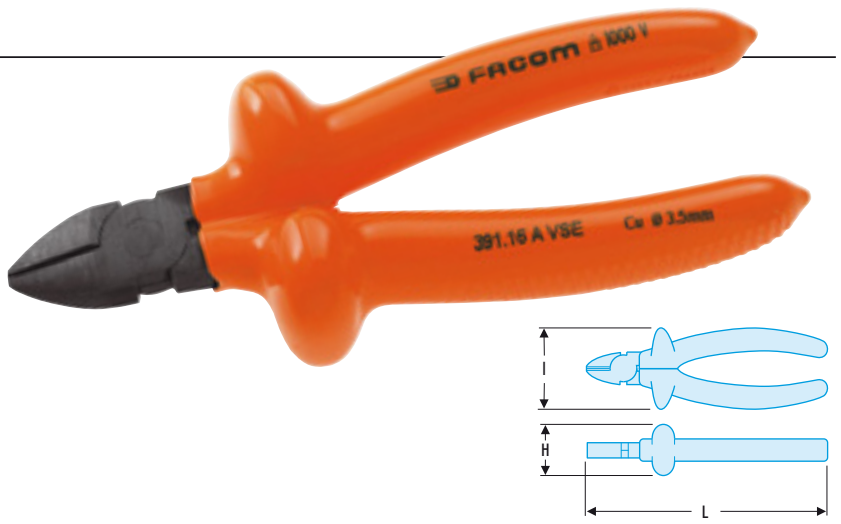


Diagonal cutters for copper wire

391.16AVSE

▷ ISO 5749, DIN 5238, DIN ISO 5749, NF ISO 5749.
• Inset joint.
• "2-colour warning" insulation.
• Burnished nose.

	L mm	l mm	H mm	Ø mm Cu	g
391.16AVSE	165	70	35	3,5	270

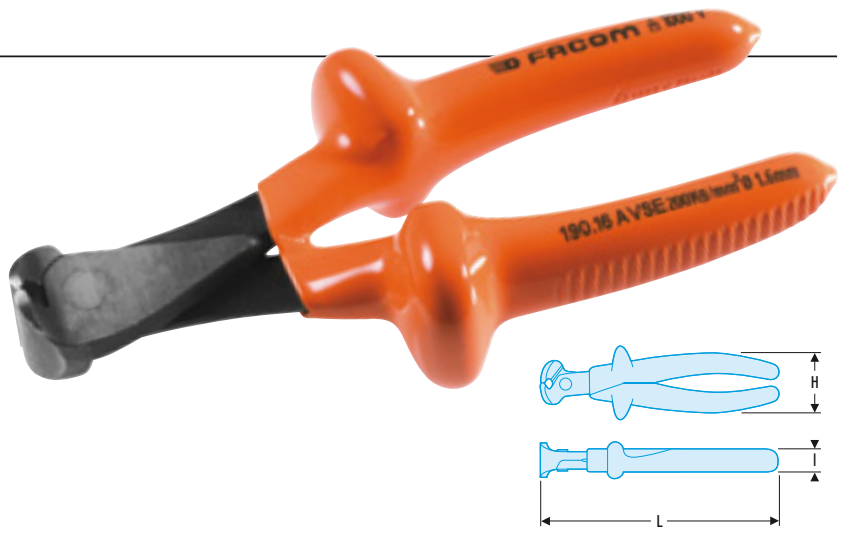


End cutters for hard wire

190.16AVSE

▷ ISO 5748, DIN 5252, NF E 73-104.
- Cutting edges heat-treated to a hardness > 60 HRc.
- "2-colour warning" insulation.
- Burnished nose.

	L mm	l mm	H mm	⋐Ø mm 200 kg/mm²	⧋ g
190.16AVSE	165	77	35	1,6	250

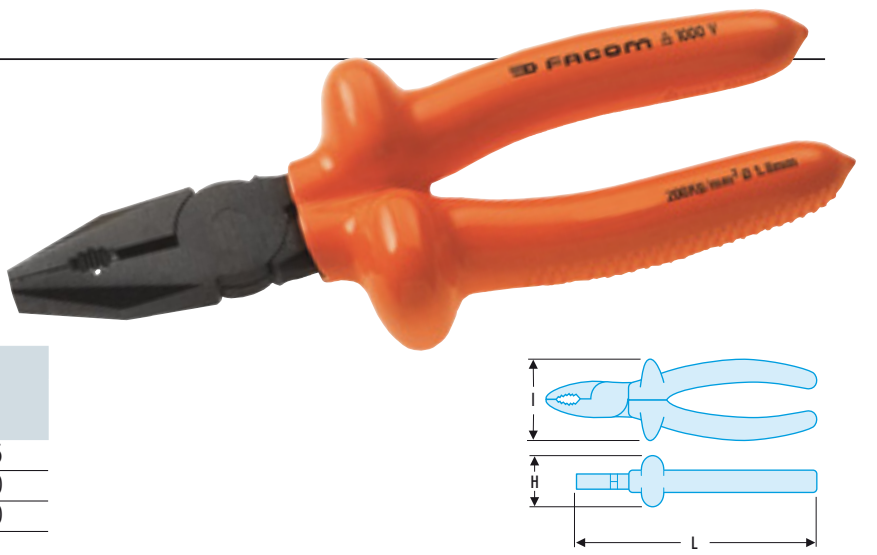


Combination pliers

Combination pliers

▷ ISO 5746, DIN 5244, NF E 73-103.
- Hardened throughout for overall strength.
- Cutting edges locally heat-treated to a hardness > 60 HRc.
- "2-colour warning" insulation.
- Burnished nose.

	L x l x H mm	Cu	⋐Ø mm 140 kg/mm²	200 kg/mm²	⧋ g
187.16AVSE	165 x 65 x 35	3,3	2,0	1,6	265
187.18AVSE	185 x 70 x 35	3,7	2,3	1,8	320
187.20AVSE	205 x 70 x 40	4,0	2,4	2,0	410



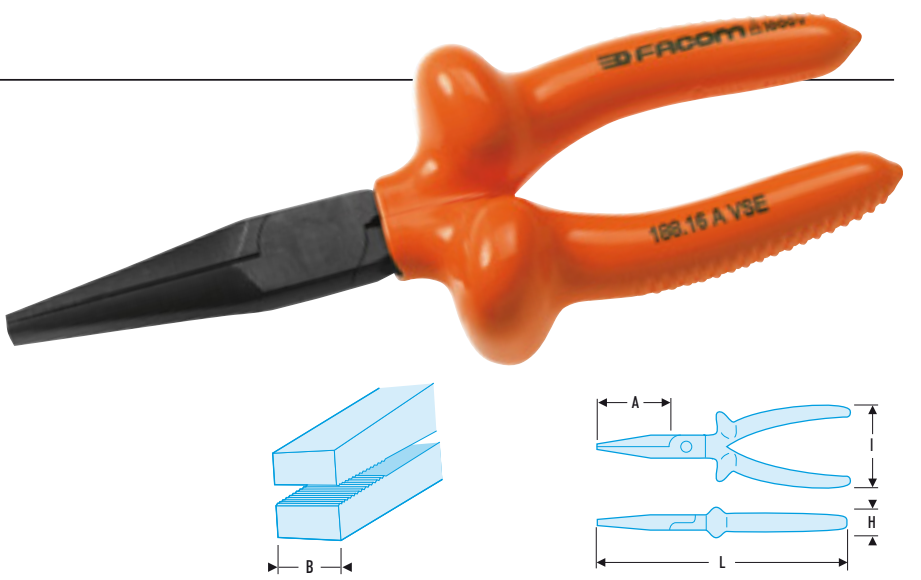
Gripping pliers

Flat-nose pliers

188.16AVSE

- Serrated tips.
- "2-colour warning" insulation.
- Burnished nose.

	A mm	B mm	L mm	l mm	H mm	⧋ g
188.16AVSE	50	7	165	60	37	170

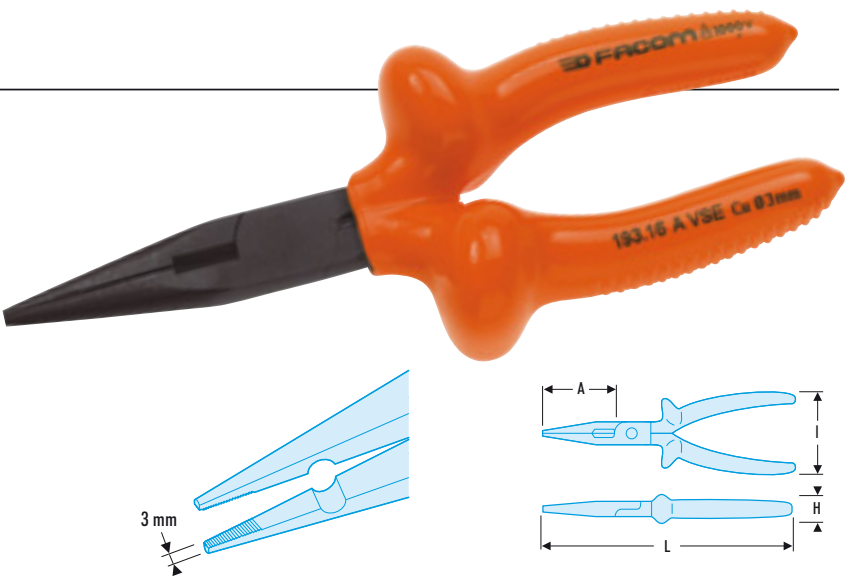


Half-round nose pliers

193.16AVSE

▷ ISO 5745, DIN ISO 5745, NF ISO 5745, NF EN 6090.
- Integral wire cutter.
- Serrated jaws for improved grip.
- "2-colour warning" insulation.
- Burnished nose.

	A mm	L x l x H mm	⋐Ø mm Cu	140 kg/mm²	⧋ g
193.16AVSE	50	170 x70 x32	3	1,6	180

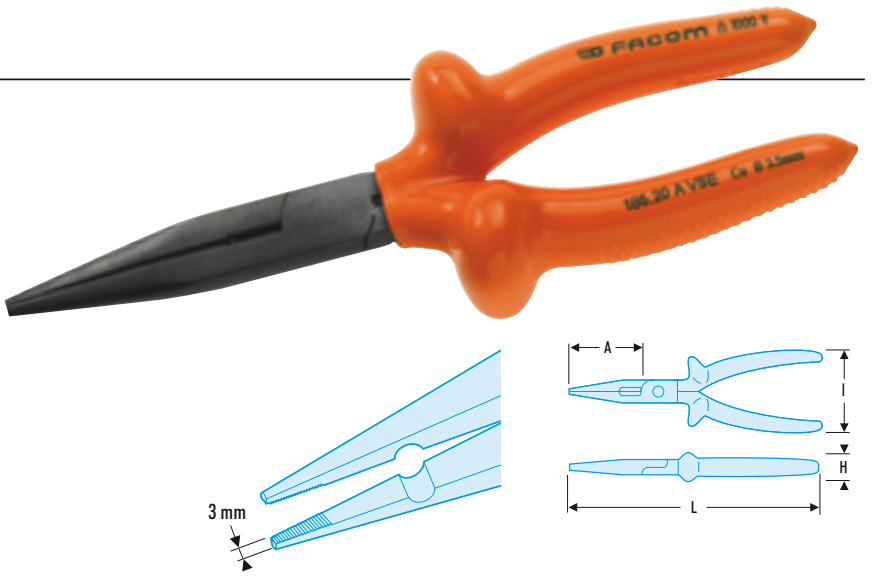


Long half-round nose pliers

185.20AVSE

- Integral wire cutter.
- "2-colour warning" insulation.
- Burnished nose.

	A	L	I	H	⋐Ø mm		⧋
	mm	mm	mm	mm	Cu	140 kg/mm²	g
185.20AVSE	69	200	65	35	3,5	2	250



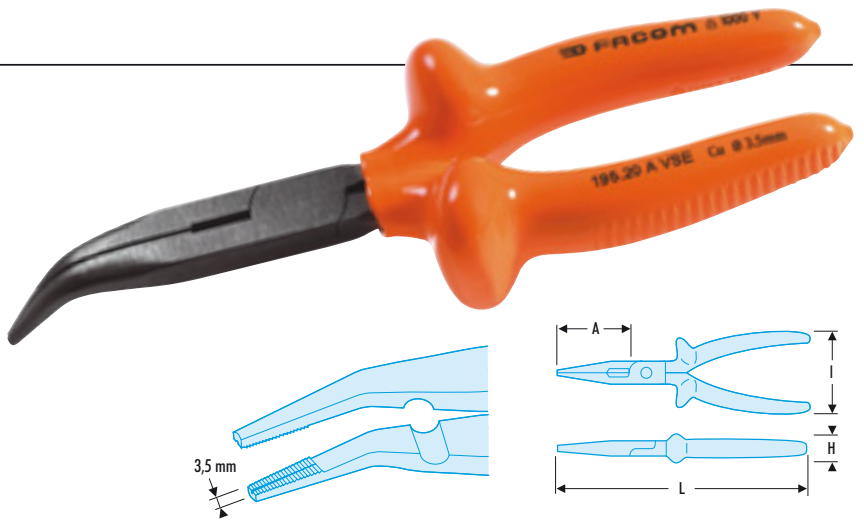
Long half-round nose pliers

195.20AVSE

▷ ISO 5745, DIN ISO 5745, NF ISO 5745, NF EN 6090.

- Integral wire cutter.
- "2-colour warning" insulation.
- Burnished nose.

	A	L	I	H	⋐Ø mm		⧋
	mm	mm	mm	mm	Cu	140 kg/mm²	g
195.20AVSE	64	200	63	32	3,5	2	250

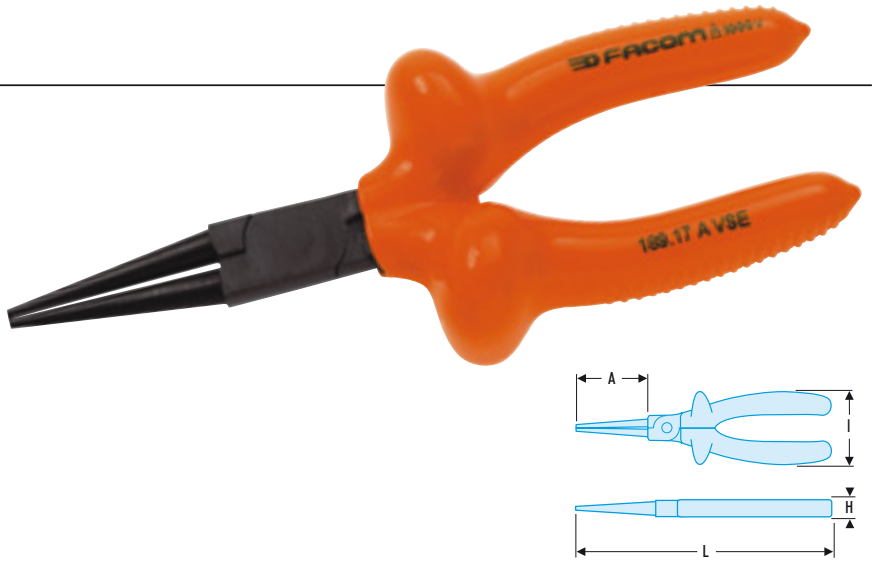


Round nose pliers

189.17AVSE

- Model with long snipe nose, serrated for shaping bends or terminals on all types of wire.
- "2-colour warning" insulation.
- Burnished nose.
- Dimensions 170 x 60 x 33 mm.

	A	L	I	H	⧋
	mm	mm	mm	mm	g
189.17AVSE	45	170	60	33	175



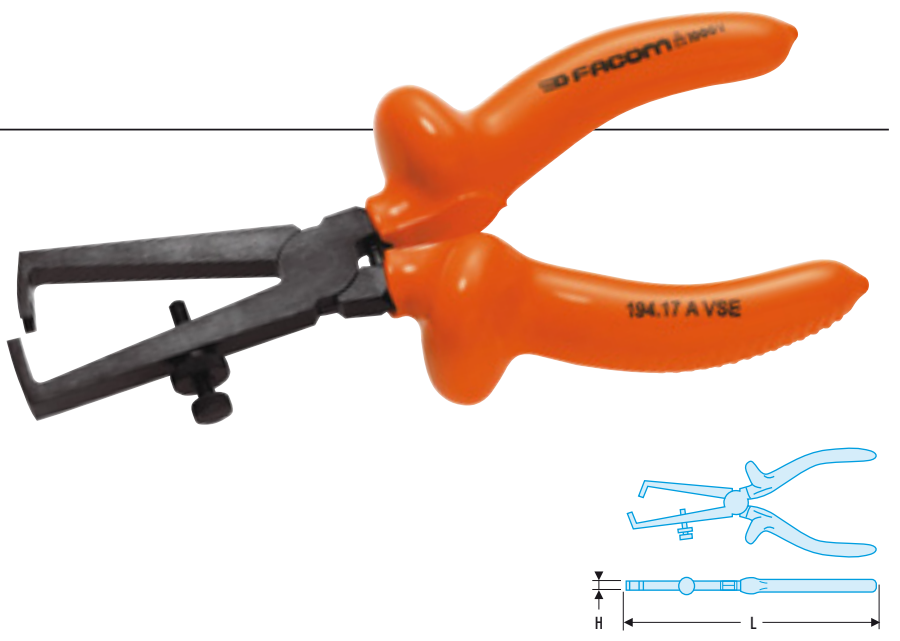
Wire strippers

Wire stripper

194.17AVSE

- Strips any wire in all common electrical systems up to max. → • Ø 2.5 mm.
- "2-colour warning" insulation.
- Burnished nose.

	H	L	⧋
	mm	mm	g
194.17AVSE	8	170	200

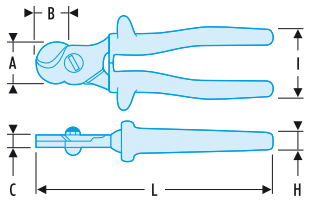


1,000 V insulated cable cutters

Copper and aluminium cable cutters

- High performance from a compact tool.
- Forged safety stops.
- "2-colour warning" insulation.
- Burnished nose.

	A mm	B mm	C mm	L mm	I mm	H mm	⋐Ø mm Cu	⧋ g
412.10AVSE	35	25	10	195	80	35	8	390
412.14AVSE	35	30	13	230	80	35	14	510
412.150AVSE	70	60	16	450	155	70	32	220



Ratchet-type cable cutters

- One-handed operation.
- No cable core distortion.
- Forged and hardened steel blade.
- "2-colour warning" insulation.

	A mm	H mm	L mm	⋐max Ø mm	⋐maxi mm² Cu ◉	Alu ◎	⧋ kg
414.45AVSE	135	42	260	45	300	300/4x70	400/4x95	1
414.52AVSE	140	37	280	52	400	400/3x150+1/70	240/4x120	1,05

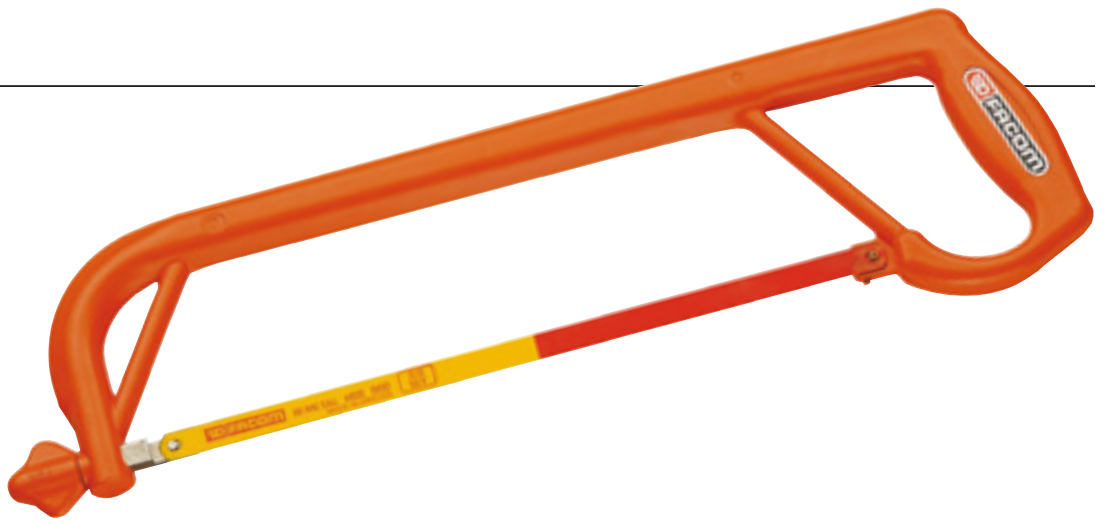
Insulated hacksaw frame

Hacksaw frame

602.AVSE

▷ DIN 6473, NF E 73-073.
- Frame for 300 mm blade.
- 2 blade positions.
- Butterfly tensioner.
- Supplied with bimetal blade.
- Dimensions : 470 x 130 x 20 mm.

⧋ : 590 g.



Insulated knife

Knife

1820.AVSE

- Thick, angled blade with flat tip.
- Soft bi-material handle.
- Blade sheath.
- Effective blade length 60 mm.
- Max. dimensions : 185 x 52 x 25 mm.

⧋ : 90 g.

Open-end wrenches

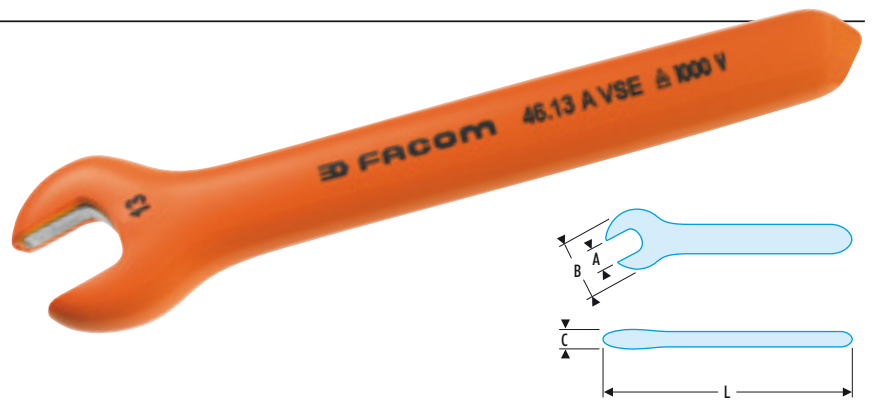
Open-end wrenches

▷ DIN 3114, NF E 74-301.

• Based on combination wrench 40, model 46 is powerful reliable and safe :

- specific heat treatment and oil quenching achieve core hardness without brittling or distortion.
- size tolerances applied by Facom exceed standard specifications.

• "2-colour warning" insulation.



	A mm	B mm	C mm	L mm	⏢ g
46.8AVSE	8	22	8	105	30
46.9AVSE	9	24	9	105	35
46.10AVSE	10	25	9	105	40
46.11AVSE	11	29	10	115	50
46.12AVSE	12	30	10	125	60
46.13AVSE	13	32	11	135	70
46.14AVSE	14	34	11	145	80

	A mm	B mm	C mm	L mm	⏢ g
46.15AVSE	15	36	11	145	90
46.16AVSE	16	38	12	155	105
46.17AVSE	17	41	12	155	120
46.18AVSE	18	42	12	160	135
46.19AVSE	19	45	12	165	150
46.21AVSE	21	50	14	185	180

Ring wrenches

Offset ring wrenches

• OGV® ring profile.

• "2-colour warning" insulation.

	A mm	B mm	C mm	H mm	L mm	⏢ g
55.8AVSE	8	16	8	16	150	50
55.9AVSE	9	17	9	17	151	55
55.10AVSE	10	19	9	17	157	60
55.11AVSE	11	20	10	19	160	70
55.12AVSE	12	21	11	20	165	100
55.13AVSE	13	23	12	20	165	105
55.14AVSE	14	25	12	21	180	120

	A mm	B mm	C mm	H mm	L mm	⏢ g
55.15AVSE	15	26	12	21	183	130
55.16AVSE	16	27	13	26	195	160
55.17AVSE	17	30	14	27	198	180
55.18AVSE	18	30	14	27	215	200
55.19AVSE	19	32	14	27	215	205
55.21AVSE	21	35	16	31	245	300

Adjustable wrenches

Adjustable wrenches

▷ ISO 6787, DIN 3117, NF ISO 6787, ASME B 107.8 M.

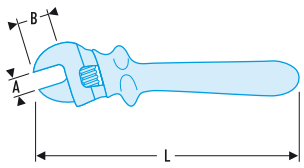
• Finger stops.

• "2-colour warning" insulation.

• Graduated head, 15° angle.

• Burnished finish.

• Thumbwheel rotates anti-clockwise.

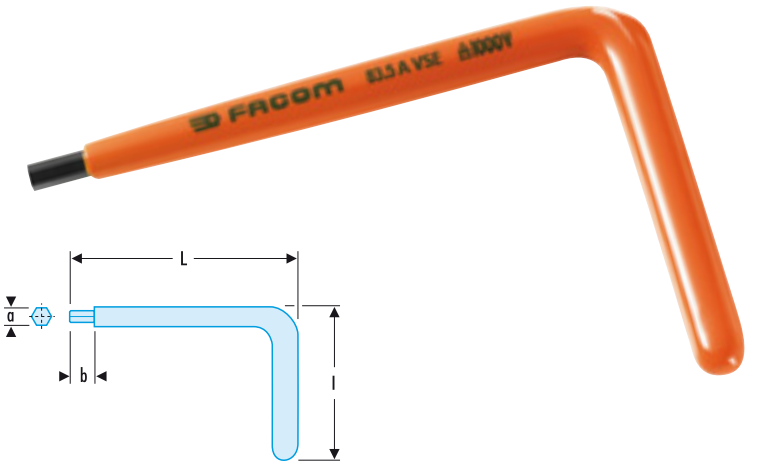


	A mm	B mm	L mm	⏢ g
113.8TAVSE	27	24	210	385
113.10TAVSE	30	29	260	655
113.12TAVSE	34	34	310	950
113.15TAVSE	44	44	385	1935

Hexagonal keys

Hexagonal keys

▷ ISO 2936, DIN ISO 2936, NF ISO 2936.
• Hardened alloy-steel exceeds specified strengths.
• "2-colour warning" insulation.



	a mm	b mm	l mm	L mm	g
83.3AVSE	3	12	85	125	20
83.4AVSE	4	12	85	125	30
83.5AVSE	5	12	85	125	50
83.6AVSE	6	12	85	125	70
83.8AVSE	8	12	85	125	110
83.10AVSE	10	12	85	125	150
83.12AVSE	12	12	85	125	210

Cross wrenches

Cross wrenches

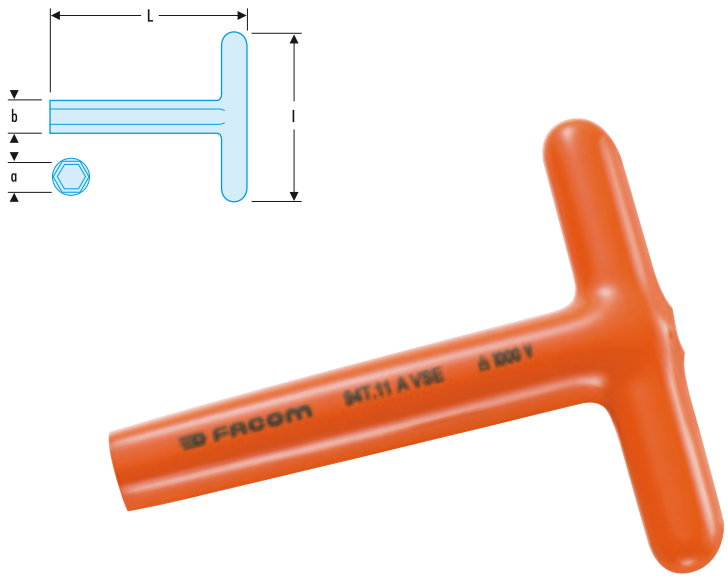
• 4 insulated 6-point sockets.
• Non-conducting core prevents continuity between ends.
• Injection-moulded single-layer resin insulation.

	L mm	⌀‡/mm	g
71.1AVSE	140	6 x 8 x 10 x 12	170
71.2AVSE	150	7 x 9 x 11 x 13	210
71.3AVSE	150	8 x 10 x 12 x 14	230

Box wrenches

Box wrenches

• 94T.AVSE : Box wrenches 135 mm long.
• 94TL.AVSE : Box wrenches 300 mm long.



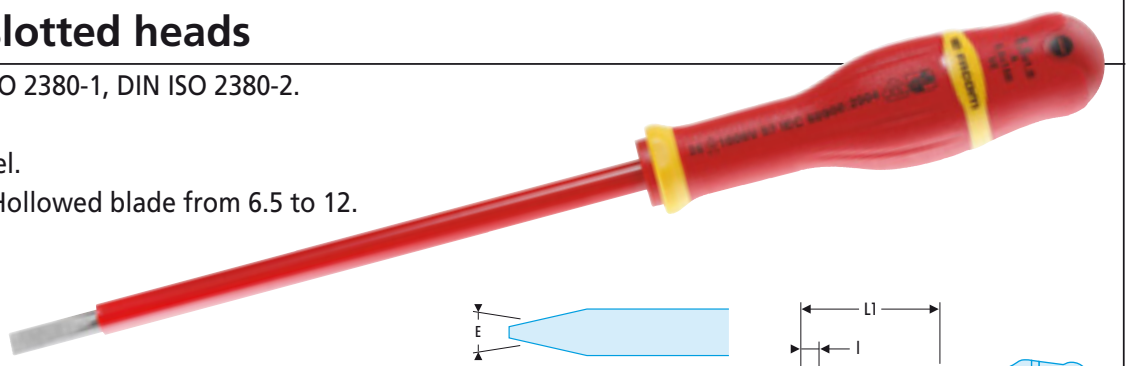
	a mm	b mm	l mm	L mm	g
94T.6AVSE	6	13	115	135	150
94T.8AVSE	8	15	115	135	160
94T.10AVSE	10	19	115	135	185
94T.11AVSE	11	23	115	135	185
94T.12AVSE	12	24	115	135	210
94T.13AVSE	13	25	115	135	225
94T.14AVSE	14	26	115	135	240
94TL.10AVSE	10	21	205	300	420
94TL.13AVSE	13	25	205	300	520
94TL.16AVSE	16	30	205	300	800
94TL.17AVSE	17	30	205	300	840
94TL.19AVSE	19	33	205	300	910

Insulated screwdrivers for slotted heads

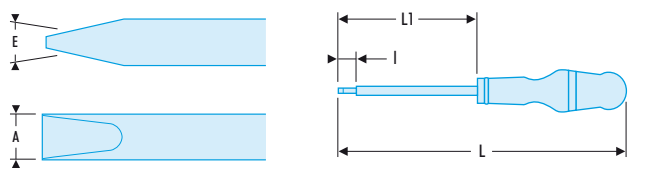
New

A.VE screwdrivers for slotted heads

▷ NF ISO 2380-1, NF ISO 2380-2, DIN ISO 2380-1, DIN ISO 2380-2.
• 1,000 V sheathed round blade.
• Chrome-Molybdenum-Vanadium steel.
• Machined blade up to 5.5 inclusive. Hollowed blade from 6.5 to 12.



	E x A mm	I x L mm	Ø2 x L2 mm	L mm	ΔΔ g
A2X75VE	0,4 x 2,0	18 x 40	19 x 95	170	23
A2,5X50VE	0,4 x 2,5	18 x 50	25 x 103	153	30
A2,5X75VE	0,4 x 2,5	18 x 75	25 x 103	178	32
A3X75VE	0,5 x 3,0	18 x 75	25 x 103	178	38
A3X100VE	0,5 x 3,0	18 x 100	25 x 103	202	39
A3,5X75VE	0,6 x 3,5	18 x 75	25 x 104	179	42
A3,5X100VE	0,6 x 3,5	18 x 100	25 x 104	204	44
A4X100VE	0,8 x 4,0	18 x 100	30 x 110	210	48
A4X150VE	0,8 x 4,0	18 x 150	30 x 110	260	53
A5,5X125VE	1,0 x 5,5	18 x 125	30 x 110	235	88
A5,5X150VE	1,0 x 5,5	18 x 180	30 x 110	260	92



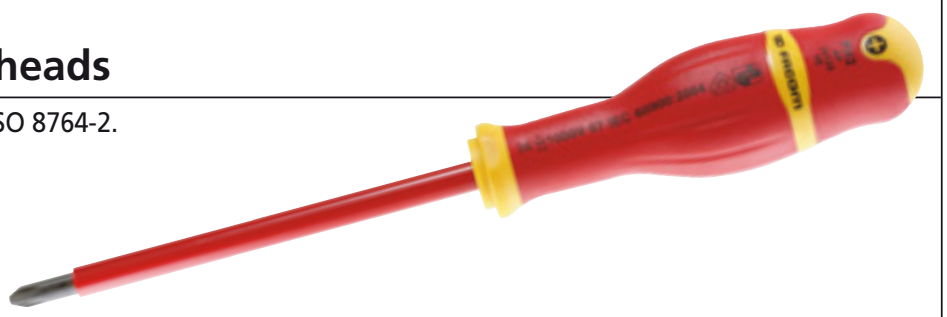
	E x A mm	I x L mm	Ø2 x L2 mm	L mm	ΔΔ g
A5,5X200VE	1,0 x 5,5	18 x 200	30 x 110	310	106
A6,5X150VE	1,2 x 6,5	18 x 180	36 x 120	270	120
A6,5X200VE	1,2 x 6,5	18 x 200	36 x 120	320	170
A8X150VE	1,2 x 8,0	18 x 180	40 x 125	275	160
A8X200VE	1,2 x 8,0	18 x 200	40 x 125	325	180
A10X200VE	1,6 x 10,0	18 x 200	40 x 125	325	240
A12X250VE	2,0 x 12,0	18 x 250	40 x 125	375	360

Screwdrivers for Phillips® heads

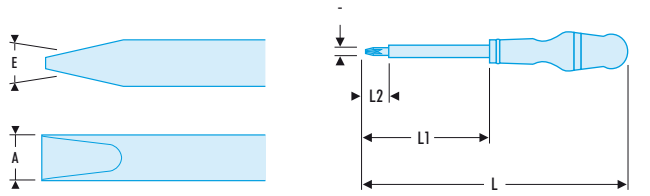
New

AP.VE screwdrivers for Phillips® heads

▷ NF ISO 8764-1, NF ISO 8764-2, DIN ISO 8764-1, DIN ISO 8764-2.
• 1,000 V sheathed round blade.
• Chrome-Molybdenum-Vanadium steel.



	Phillips® n°	Ø mm	I x L mm	Ø2 x L2 mm	L mm	ΔΔ g
AP0X75VE	PH 0	Ø3x60	18 x 75	25 x 104	179	46
AP1X100VE	PH 1	Ø4,5x75	18 x 100	30 x 110	210	77
AP2X125VE	PH 2	Ø6x100	18 x 125	36 x 120	245	127
AP3X150VE	PH 3	Ø8x150	18 x 150	40 x 125	275	195
AP4X200VE	PH 4	Ø10x200	18 x 200	40 x 125	325	278

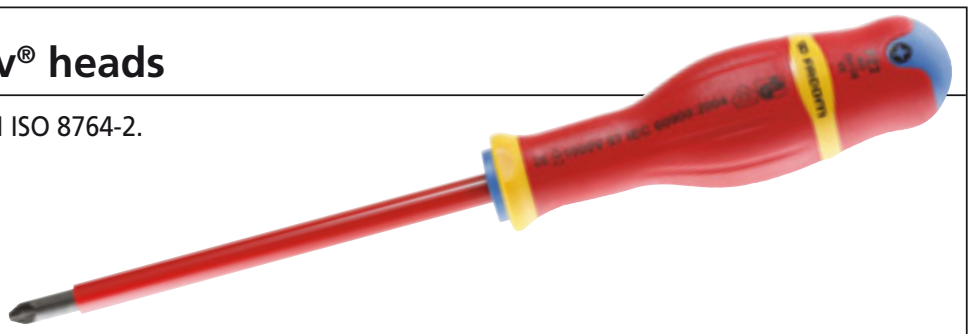


Screwdrivers for Pozidriv® heads

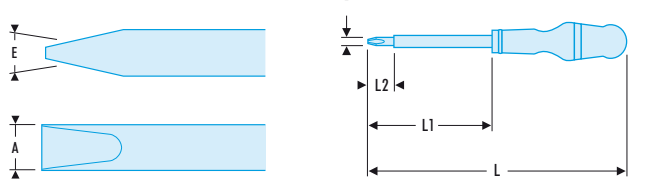
New

AD.VE screwdrivers for Pozidriv® heads

▷ NF ISO 8764-1, NF ISO 8764-2, DIN ISO 8764-1, DIN ISO 8764-2.
• 1,000 V sheathed round blade.
• Chrome-Molybdenum-Vanadium steel.



	Pozidriv® n°	Ø mm	I x L mm	Ø2 x L2 mm	L mm	ΔΔ g
AD0X75VE	PZ 0	Ø3x60	18 x 75	25 x 104	179	46
AD1X100VE	PZ 1	Ø4,5x75	18 x100	30 x 109	209	77
AD2X125VE	PZ 2	Ø6x100	18 x 125	36 x 120	245	127
AD3X150VE	PZ 3	Ø8x150	18 x 150	40 x 125	275	195



Insulated screwdriver sets

New

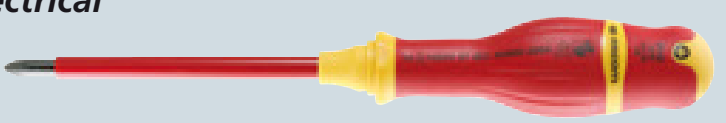
A.VE 1,000 V insulated screwdriver sets

	Number of screwdrivers	Contents
AD.J5VE	5	⊖ A3,5x100VE - A4x100VE - A5,5x125VE ✪ AD1 x 100VE - AD2x125VE
AP.J5VE	5	⊖ A3,5x100VE - A4x100VE - A5,5x125VE ✪ AP1x100VE - AP2x125VE
AD.J8VE	8	⊖ A2,5x75VE - A3x75VE - A3,5x75VE - A4x100VE - A5,5x125VE - A6,5x150VE ✪ AD1x100VE - AD2x125VE

Borneo®

For our range of borneo® 1,000 V screwdrivers for electrical terminals.
See p. 322

1000 VOLTS EN 60900



FACOM VSE 1,000 V insulated ratchets and sockets

A COMPREHENSIVE RANGE OF TOOLS FOR WORKING ON LIVE COMPONENTS

1- *Comprehensive range of accessories extensions, Tee handles, etc.*
2- *Variety of socket lengths.*
3- *1/2", 3/8" and 1/4" square drives for overcoming accessibility problems.*

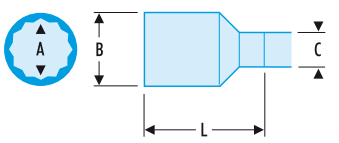
1000 VOLTS EN 60900

And complete box sets

1/2" square drive 12-point sockets

1/2" square drive 12-point sockets

- For manual use.
- 1/2" (12.7 mm) square drive.



	A mm	B mm	C mm	L mm	⚖ g
S.8AVSE	8	17	22	52	70
S.9AVSE	9	18	22	52	70
S.10AVSE	10	19	22	52	75
S.11AVSE	11	20	22	52	75
S.12AVSE	12	22	22	52	75
S.13AVSE	13	23	22	52	75

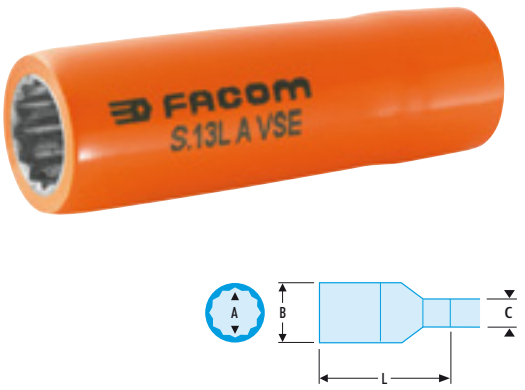
	A mm	B mm	C mm	L mm	⚖ g
S.14AVSE	14	24	22	52	80
S.17AVSE	17	28	22	52	90
S.19AVSE	19	32	22	52	95
S.21AVSE	21	33	22	52	130
S.22AVSE	22	34	22	52	145

Long-reach 1/2" square drive 12-point sockets

Long-reach sockets

- For manual use.
- 1/2" (12.7 mm) square drive.
- OGV® profile.

	A mm	B mm	C mm	L mm	⚖ g
S.12LAVSE	12	22	22	77	125
S.13LAVSE	13	23	22	77	135
S.14LAVSE	14	24	22	77	135
S.16LAVSE	16	27	22	77	150
S.17LAVSE	17	28	22	77	161
S.18LAVSE	18	29	22	77	167
S.19LAVSE	19	32	22	77	180



1/2" square drive hexagon bits

Hexagon bits

- For manual use.
- 1/2" (12.7 mm) square drive.

	A mm	B mm	C mm	L mm	⚖ g
ST.8AVSE	8	10	22	70	90
ST.10AVSE	10	12	22	70	90
ST.12AVSE	12	12	22	92	145
ST.14AVSE	14	17	22	92	150
ST.17AVSE	17	19	22	92	175

Ratchets and accessories ◹ 1/2"

1/2" drive ratchet

S.151AVSE

- 1/2" (12.7 mm) square drive.
- Sockets and accessories secured by spring-ball.
- Retention force 32 to 38 N
- "2-colour warning" handle insulation.
- Dimensions 265 x 55 x 70 mm.

⚖ : 580 g.

1/2" handle

S.121AVSE

- 1/2" (12.7 mm) square drive.
- Sockets and accessories secured by spring-ball.
- Retention force 32 to 38 N.
- "2-colour warning" handle insulation.
- Dimensions 210 x 165 x 25 mm.

⚖ : 520 g.

1/2" square drive extensions

- 1/2" (12.7 mm) square drive.
- Single-colour insulation.

	⬡ mm	L mm	⚖ g
S.210AVSE	22	145	250
S.215AVSE	22	265	470

Case set of sockets

12-piece tool set

S.400AVSE

• Comprising :
- 9 sockets, 12-point, sizes 8, 9, 10, 11, 12, 13, 14, 17, 19 mm.
- 1 ratchet S.151AVSE.
- Extensions S.210AVSE and S.215AVSE.

• Dimensions 390 x 160 x 68 mm.
⚖ : 2.46 kg.

17-piece tool set

S.401AVSE

• Comprising :
- 9 sockets, 12-point, sizes 8, 9, 10, 11, 12, 13, 14, 17, 19 mm.
- 5 bits, sizes 8, 10, 12, 14, 17 mm.
- 1 ratchet S.151AVSE.
- Handle S.121AVSE.
- Extension S.210AVSE.

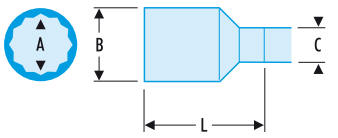
• Dimensions 345 x 280 x 65 mm.
⚖ : 3.43 kg.

3/8" square drive sockets

3/8" square drive 12-point sockets

▷ ISO 2725-1, DIN 3124, NF ISO 2725-1.

• For manual use.
• 3/8" (9.53 mm) square drive.
• OGV® profile.



	A mm	B mm	C mm	L mm	⚖ g
J.8AVSE	8	17	18	43	30
J.9AVSE	9	18	18	43	32
J.10AVSE	10	20	18	43	34
J.11AVSE	11	21	18	46	35
J.12AVSE	12	22	18	46	35
J.13AVSE	13	23	18	46	45

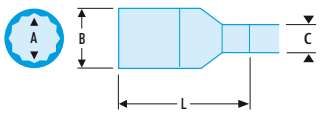
	A mm	B mm	C mm	L mm	⚖ g
J.14AVSE	14	25	18	46	45
J.15AVSE	15	25	18	46	45
J.16AVSE	16	27	18	46	45
J.17AVSE	17	27	18	46	48
J.18AVSE	18	29	18	46	66
J.19AVSE	19	31	18	50	68

Long-reach 3/8" square drive sockets

Long-reach 3/8" square drive 12-point sockets

• For manual use.
• 3/8" (9.53 mm) square drive.
• OGV® profile.

	A mm	B mm	C mm	L mm	⚖ g
J.8LAVSE	8	19	18	63	66
J.13LAVSE	13	23	18	63	75
J.14LAVSE	14	23	18	69	98
J.16LAVSE	16	25	18	76	147
J.17LAVSE	17	27	18	76	147
J.18LAVSE	18	28	18	76	157
J.19LAVSE	19	29	18	76	166

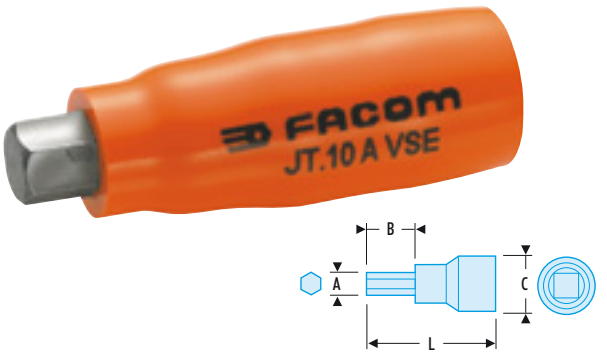


3/8" square drive hexagon bits

3/8" square drive hexagon bits

- For manual use.
- 3/8" (9.53 mm) square drive.

	A mm	B mm	C mm	L mm	⚖ g
JT.4AVSE	4	10	18	66	43
JT.5AVSE	5	10	18	66	43
JT.6AVSE	6	10	18	66	44
JT.7AVSE	7	10	18	66	48
JT.8AVSE	8	10	18	66	56
JT.10AVSE	10	10	18	66	63



Ratchets and accessories ⍁ 3/8"

3/8" drive ratchet

J.151AVSE

- 3/8" (9.53 mm) square drive.
- Sockets and accessories secured by spring-ball.
- Retention force 13 to 16 N.
- "2-colour warning" handle insulation.
- Dimensions 180 x 50 x 48 mm.

⚖ : 250 g.

3/8" handle

J.121AVSE

- 3/8" (9.53 mm) square drive.
- Sockets and accessories secured by spring-ball.
- Retention force 13 to 16 N.
- "2-colour warning" handle insulation.
- Dimensions 205 x 165 x 35 mm.

⚖ : 380 g.

3/8" square drive extensions

- 3/8" (9.53 mm) square drive.
- Single-colour insulation.

	⍁ mm	L mm	⚖ g
J.210AVSE	17	150	150
J.215AVSE	17	260	290

3/8" square drive socket and accessory sets

9-piece tool set (12 point sockets)

J.400AVSE

• Comprising :
- 6 sockets (12-point), 8, 10, 11, 12, 13, 14 mm.
- 1 ratchet J.151AVSE.
- Extensions J.210AVSE and J.215AVSE.

• Dimensions 390 x 160 x 68 mm.

⚖ : 1.74 kg.

17-piece tool set

J.401AVSE

• Comprising :
- 9 sockets (12-point), sizes 8, 10, 11, 12, 13, 14, 15, 17, 19 mm.
- 5 hexagon bits, 4, 5, 6, 7, 8 mm.
- 1 ratchet J.151AVSE.
- 1 handle J.121AVSE.
- Extension J.210AVSE.

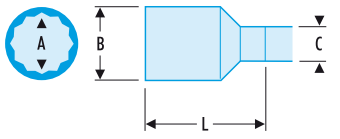
• Dimensions 345 x 280 x 65 mm.
⚖ : 2.25 kg.

1/4" square drive sockets

1/4" square drive sockets

• For manual use.
• 1/4" (6.35 mm) square drive.

	A mm	B mm	C mm	L mm	⚖ g
R.6AVSE	6	16	22	22	10
R.7AVSE	7	17	22	22	16
R.8AVSE	8	17	22	22	16
R.10AVSE	10	18	22	22	20
R.12AVSE	12	22	22	22	30

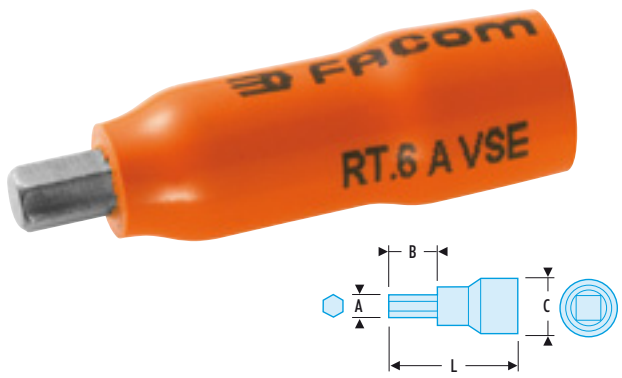


1/4" square drive hexagon bits

Hexagon bits

• For manual use.
• 1/4" (6.35 mm) square drive.

	A mm	B mm	C mm	L mm	⚖ g
RT.4AVSE	4	11	22	37	20
RT.5AVSE	5	13	22	37	20
RT.6AVSE	6	14	22	37	20



Ratchets and accessories ⍁ 1/4"

1/4" drive ratchet

R.151AVSE

• 1/4" (6.35 mm) square drive.
• Sockets and accessories secured by spring-ball.
• Retention force 6 to 9 N.
• "2-colour warning" handle insulation.
• Dimensions 125 x 45 x 35 mm.
⚖ : 140 g.

1/4" square drive extensions

R.210AVSE

- 1/4" (6.35 mm) square drive.
- Dimensions 116 x 16.6 mm.
- Single-colour insulation.

	L mm	mm	⚖ g
R.210AVSE	116	16,6	65

1/4" square drive socket and accessory sets

Tool set

R.400AVSE

- Comprising :
- 5 sockets 6, 7, 8, 10, 12 mm.
- 3 hexagon bits, 4, 5, 6 mm.
- 1 ratchet R.151AVSE.
- Extension R.210AVSE.
- Dimensions 322 x 136 x 53 mm.

⚖ : 650 g.

Insulating gloves

Insulating gloves

▷ EN 60903 - European directive EC/89/686.

- Natural latex, AZMC grade :
- R : resistant to acid, oil and ozone.
- C : resistant to very low temperatures.
- Supplied in an opaque anti-UV pouch.
- Length 360 mm.

⚖ : 150 g.

	Size	Thickness mm	Class	Power supply V
BC.80VSE	9 (B)	0,5	00	500
BC.81VSE	10 (C)	0,5	00	500
BC.90VSE	9 (B)	1	0	1000
BC.91VSE	10 (C)	1	0	1000

Overgloves

Overgloves

▷ European directive EC/89/686.

- Silicon leather giving mechanical protection.
- Worn over latex insulating gloves.
- Physical/mechanical classification 2, 1, 2, 1 to European standard EN 388.

	Size	⚖ g
BC.109VSE	9 (B)	160
BC.110VSE	10 (C)	160

Safety glasses and goggles

Why wear eye protection ?

1) To protect against projections of solid particles (spectacle type), liquids or chemicals (mask type).
2) To protect against UV radiation.

Where eye protection wherever there is a risk of exposure to particles, chemical products, fumes, splashing, dust, glass fibre, heat or metal shavings.
Protect your eyes : avoid damage.

It is recommended to wear safety goggles with side shields when operating machine tools, wood-working machinery or shredders.

Lens care

Regularly examine goggles and replace if any worn, broken or damaged parts are noted (stems, eyepieces, etc.).
Clean the lenses with warm soapy water. A microfibre cloth can be used to remove grease and dirt from the lenses without damage.

Safety glasses

BC.30VSE

▷ EN 166 - European directive EC/89/686.
• Treated against UV rays, fogging and scratching.
• Optical class 1, protection class 1.2.
• Adjustable and extendable arms.
• Soft case included.
⚖ : 75 g.

Safety goggles

BC.31VSE

▷ NF EN 166 - European directive EC/89/686.
• Protection for prescription glasses.
• Optical class 1, protection class 1.2.
• Synthetic, anti-UV clear lenses.
• Resistant to scratching and flying chips (• Soft case included.
⚖ : 70 g.

Insulating mats

Insulating mats

▷ NF C 18.420.
• Rubber mat to insulate operator from any earthing points.
• Thickness 3.2 mm.
• Hardness 60 DIDC.

	Length x width m	⚖ kg
BC.20VSE	1 x 0,6	2,5
BC.21VSE	1 x 1,0	4,2

Insulated clips

Insulated clips

BC.25VSE

- Strong resin clips for joining insulating mats.
- Integral hanging hook.
- Max. opening 40 mm.
- Length 155 mm.

⚖ : 70 g.

Insulated tool sets

9-piece tool set

2180B.VSE

- Basic set for servicing workshop electrical gear.
- Supplied in leather bag, ref. BV.100.
- Dimensions 350 x 120 x 120 mm.

⚖ : 2.025 kg.

⇉	Quantity	Description
BC.90VSE	1	Size 9 low temperature insulating gloves
BV.100	1	Compact leather bag
189.17AVSE	1	Insulated round-nose pliers
194.17AVSE	1	Insulated wire stripper
391.16AVSE	1	Diagonal cutters for copper wire
1820.AVSE	1	1000 V insulated knife
187.18AVSE	1	1000 V insulated combination pliers
A4X100VE	1	Screwdriver
AP1X100VE	1	1000 V insulated screwdriver PH1
A5,5X150VE	1	Screwdriver

28-piece tool set

2185C.VSE

- In a chest with modular storage.
- Basic general-purpose tools supplied in a plastic chest.
- Spare capacity for additional tools.
- Dimensions 524 x 320 x 214 mm.

⚖ : 9.300 kg.

⇉	Quantity	Description
AV.HT1B	1	Voltage tester screwdriver for low voltage 90 to 480 V
BC.109VSE	1	Pair of overgloves, size 9
BC.90VSE	1	Size 9 low temperature insulating gloves
DELA.401.00	1	Plastic folding rule (2 m)
113.10TAVSE	1	Insulated adjustable wrench 30 mm
R.400AVSE	1	10 - piece set of insulated 1/4" tools
188.16AVSE	1	1000 V insulated flat-nose pliers
192.16AVSE	1	Insulated cutters for hard wire
194.17AVSE	1	Insulated wire stripper
391.16AVSE	1	1000 V insulated diagonal cutters for copper wire
412.14AVSE	1	1000 V insulated 14 mm copper and aluminium cable cutters
1820.AVSE	1	1000 V insulated knife
187.18AVSE	1	1000 V insulated combination pliers
A5,5X150VE	1	Screwdriver
A8X150VE	1	Screwdriver
BP.10	1	Compact tool box
A6,5X150VE	1	Screwdriver
AP2X125VE	1	1000 V insulated screwdriver PH2
A4X100VE	1	Screwdriver
AP1X100VE	1	1000 V insulated screwdriver PH1

41-piece tool set

2187C.VSE

- For fitting electrical gear.
- Supplied in leather case, ref. BV 7B : 445 x 330 x 185 mm.

⚖ : 8.5 kg.

⊃	Quantity	Description
BV.7A	1	Fold-down front leather case
BC.109VSE	1	Size 9 overgloves
BC.90VSE	1	Size 9 low temperature insulating gloves
R.400AVSE	1	10 - piece set of insulated 1/4" tools
113.10TAVSE	1	Insulated adjustable wrench 30 mm
188.16AVSE	1	Insulated flat-nose pliers
194.17AVSE	1	Insulated wire stripper
391.16AVSE	1	Insulated diagonal cutter for copper
412.14AVSE	1	1000 V and 14 mm copper and aluminium cable cutters
46.10AVSE	1	Insulated open end wrench 10 mm
83.3AVSE	3	Insulated 3-4-6 mm key
AV.HT1B	1	Voltage tester screwdriver 90 to 480 V
701A	1	Multifunction tester
BC.31VSE	1	Goggles
46.11AVSE	1	Insulated open end wrench 11 mm
46.12AVSE	1	Insulated open end wrench 12 mm
46.13AVSE	1	Insulated open end wrench 13 mm
46.14AVSE	1	Insulated open end wrench 14 mm
46.17AVSE	1	Insulated open end wrench 17 mm
46.19AVSE	1	Insulated open end wrench 19 mm
46.8AVSE	1	Insulated open end wrench 8 mm
83.4AVSE	1	Insulated 4 mm key
83.6AVSE	1	Insulated 6 mm key
187.18AVSE	1	Insulated combination pliers
AP0X75VE	1	1000V insulated screwdriver PH0
AP1X100VE	1	1000V insulated screwdriver PH1

⊃	Quantity	Description
AP2X125VE	1	1000V insulated screwdriver PH2
A3,5X100VE	1	Screwdriver
A4X100VE	1	Screwdriver
A6,5X150VE	1	Screwdriver
A5,5X150VE	1	Screwdriver
A8X150VE	1	Screwdriver
189.17AVSE	1	Insulated round-nose pliers

42-piece tool set

2184C.VSE

- For workshop or on-site electrical work.
- Supplied in leather case, ref. BV 5A.
- Dimensions 425 x 215 x 320 mm.

⚖ : 14.13 kg.

⊃	Quantity	Description
BV.5A	1	Leather drawer case
BC.20VSE	1	Insulating mat 1 m x 0.6 m
BC.90VSE	1	Size 9 low temperature insulating gloves
180.VSE	1	Insulated multigrip pliers
188.16AVSE	1	Insulated flat-nose pliers
46.10AVSE	1	Insulated open end wrench 10 mm
195.20AVSE	1	Insulated long half-round nose pliers
192.16AVSE	1	Insulated cutter for hard wire
391.16AVSE	1	Insulated diagonal cutter for copper
412.14AVSE	1	1000 V and 14 mm copper and aluminium cable cutters
194.17AVSE	1	Insulated wire stripper
46.12AVSE	1	Insulated open end wrench 12 mm
46.13AVSE	1	Insulated open end wrench 13 mm
46.14AVSE	1	Insulated open end wrench 14 mm
46.17AVSE	1	Insulated open end wrench 17 mm
46.19AVSE	1	Insulated open end wrench 19 mm
46.21AVSE	1	Insulated open end wrench 21 mm
46.8AVSE	1	Insulated open end wrench 8 mm
189.17AVSE	1	Insulated round-nose pliers
701A	1	Multifunction tester
83.3AVSE	1	Insulated 3 mm key
83.4AVSE	1	Insulated 4 mm key
83.6AVSE	1	Insulated 6 mm key
94T.10AVSE	1	Insulated box wrench 10 mm
94T.13AVSE	1	Insulated box wrench 13 mm
94T.8AVSE	1	Insulated box wrench 8 mm
414.45AVSE	1	Insulated ratchet-type cable cutter 45 mm
1820.AVSE	1	1000 V insulated knife

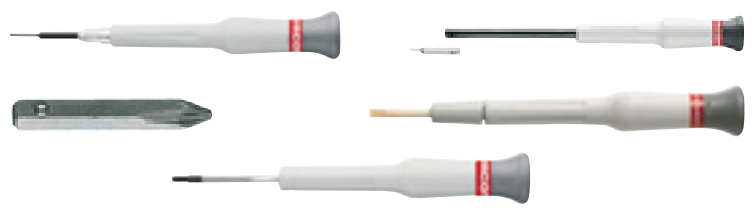
⊃	Quantity	Description
DELA.401.00	1	Synthetic folding rule 2 m
187.18AVSE	1	Insulated combination pliers
190.16AVSE	1	Insulated cutter for hard wire
A3,5X100VE	1	Screwdriver
A4X100VE	1	Screwdriver
A5,5X150VE	1	Screwdriver
A6,5X150VE	1	Screwdriver
A8X150VE	1	Screwdriver
AP1X100VE	1	1000 V insulated screwdriver PH1
AP2X125VE	1	1000 V insulated screwdriver PH2
A10X200VE	1	Screwdriver
AD1X100VE	1	1000 V insulated screwdriver PZ1
AD2X125VE	1	1000 V insulated screwdriver PZ2

FACOM
1230.40
432.LMT
FACOM
100DA.E

17. Electronics

Micro-tech electronics pliers 672

Micro-Tech screwdrivers 690



Series 0 tips – 4 mm drive 692

Micro-Tech sets 695

Tweezers 697

Standard series 697
PVC-coated series 698
High-precision series 698
Specialised tweezers 699
Tweezer sets 699

Miscellaneous tools 701

Anti-static series electronics pliers 684

Micro-Tech screwdriver case sets 693

Watchmaker screwdriver sets 696

Special Micro-Tech pliers 700

Circlip pliers 700
Truarc® pliers 700
Ring pliers 700

Soldering 706

Controlled-heat soldering stations 706
Soldering irons for electronics 707
Instant heat soldering irons 708
Heavy-duty soldering irons 709
Gas soldering irons 709
Soldering wire 710
Soldering accessories 710

Micro-Tech®

A SPECIALISED RANGE OF 300 TOOLS DESIGNED AND DEVELOPED WITH THE HELP OF PROFESSIONALS !

Dedicated features

- *A range of materials to optimise gripping, cutting or handling of small components.*
- *Efficient storage for instant selection of the correct tool.*
- *Antistatic tools providing electrostatic discharge protection.*

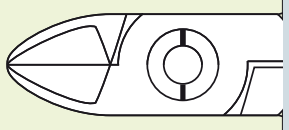
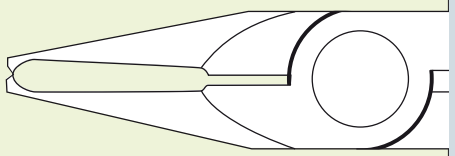
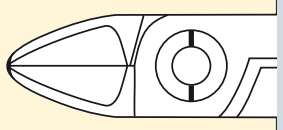
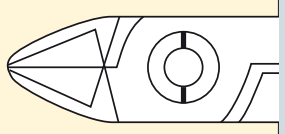
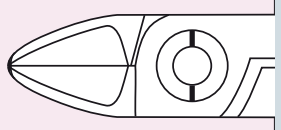
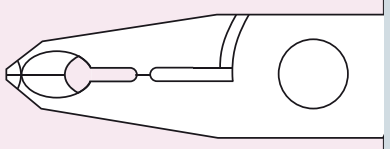
Choosing the right electronics pliers

▼ *ACCORDING TO CUT : The Facom range offers three types. Choose the one best suited to your needs.*

CUTTING EDGES	PATTERN	FEATURES	WIRE TYPE		OPERATION	APPLICATION
AXIAL CUT		Cutting edges are treated to achieve maximum strength and precision cutting of a wide range of materials, from piano wire to copper.	Cu	✔	- Production work. - Day-to-day use. - Maintenance. - Hard materials.	- Customer service (hi-fi) - Machine-tools - Automotive - Domestic appliances
			CuNi alloy CuNi	✔		
			Mild steel 30 HRc	✔		
			Hard steel 50 HRc Piano wire	✔		
SEMI-FLUSH CUT		Micro-chamfered cutting edges ensure high cutting capacity with clean finish. Precision is maintained throughout a long service life even in intensive use. Suitable for semi-hard wire.	Cu	✔	- Clean cut in intensive use - Wiring. - Batch electronics - Semi-hard materials.	- Computers - Telephone exchanges - Video and laser - Micro-Tech® (hi-fi, labs)
			CuNi alloy	✔		
			Mild steel 30 HRc	✔		
			Hard steel 50 HRc Piano wire	✗		
FLUSH CUT		This range is designed to give a through-cut without crushing the wire. Clean-cut ends allow reliable soldering, without damage to electronic components from arcing. Suitable for soft wire only.	Cu	✔	- High-frequency apparatus. - High precision equipment. - Cut-back before soldering. - Electrostatically sensitive components.	- Defence - Aerospace - Aviation - Laboratory
			CuNi alloy	✔		
			Mild steel 30 HRc	✗		
			Hard steel 50 HRc Piano wire	✗		

Electronics pliers

▼ *ACCORDING TO PROFILE**

NOSE DESIGN		Ø Cu WIRE (mm) 0 — 0.5 — 1 — 1.5 — 2	Ø MAX Fe WIRE 30 HRc	Ø MAX PIANO WIRE
• Bullet nose for strength 	405.8 MT-E	0.2 —> 1.0	0.5	STOP
	405.MT-E	0.3 —> 1.3	0.7	0.4
	405.10 MT-E	0.3 —> 1.4	0.8	0.5
	405.12MT-E	0.4 —> 2.0	1.0	0.8
	405-E	0.3 —> 1.1	0.7	0.4
	405.10 RMT-RE	0.3 —> 1.2	0.8	0.5
	405.12 RMT-RE*	0.4 —> 1.5	1.0	0.6
• End nose for reach 	408.MT	0.4 —> 1.5	0.5	STOP
• Bullet nose for strength 	406.8-MT-E	0.1 —> 1.0	STOP	STOP
	406.MT-E	0.1 —> 1.3	0.7	
	435.MT-E	0.1 —> 1.3	0.7	
	436.MT-E	0.1 —> 1.2	0.7	
	415.MT-E	0.3 —> 2.0	1.0	
	406.RMT-RE*	0.1 —> 1.1	0.7	
	435.RMT-RE*	0.1 —> 1.1	0.7	
	415.RMT*-RE*	0.3 —> 1.5	0.8	
• Pointed nose for control 	416.MT-E	0.1 —> 1.0	0.5	
	416.PMT-E	0.1 —> 0.8	0.4	
	416.12 MT-E	0.3 —> 1.6	0.7	
	416.RMT	0.1 —> 0.9	0.5	
• Bullet nose for strength 	407.8 MT-E	0.1 —> 0.8	STOP	STOP
	407.MT-E	0.1 —> 1.3		
	425.MT-E	0.1 —> 1.3		
	426.MT-E	0.1 —> 1.2		
• Pointed nose for control	417.PMT-E	0.1 —> 0.8		
• Angled nose for accuracy 	427.MT-E	0.2> 0.6		
	429.MT-E	0.2 —> 1.0		
	430.MT	0.2 —> 1.0		
• End nose for reach	418.MT	0.1 -> 0.6		
	428.MT	0.1 —> 0.8		

"Micro-Tech®"

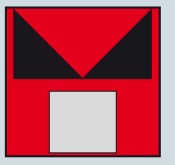
Bullet-nose cutting pliers

Bullet nose pliers

- *Are stronger than other profiles.*
- *Have a high cutting capacity and durability that are useful in a wide variety of applications.*

AXIAL CUT
All materials, any application.

SEMI-FLUSH CUT
Clean, long-life cut in semi-hard materials.

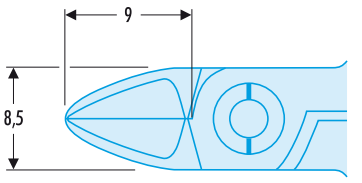


FLUSH CUT
Smooth cut for sound soldered connections.

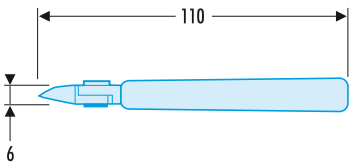
Slim-joint models for precision

▷ ISO 9654
- Suitable for miniature electronic components.

⚖ : 60 g.



	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm	Piano wire Ø mm
405.8MT	⩘	0,2 - 1	0,5	STOP
406.8MT	⌐⌒¬	0,1 - 1	STOP	STOP
407.8MT	⌐¯¬	0,1 - 1	STOP	STOP

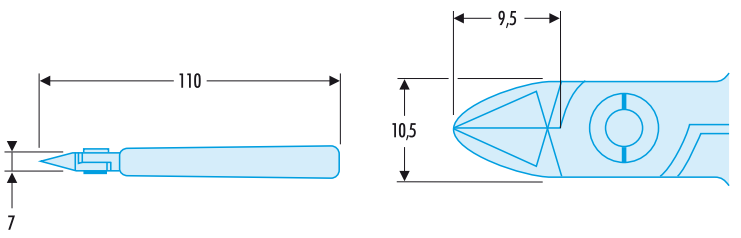


Compact models for manoeuvrability

▷ ISO 9654
- Slimmer bullet-nose profile combines cutting performance with manoeuvrability.
- Available with off-cut retaining system. Model 405.MT is suitable for cutting piano wire d. 0.4 mm

⚖ : 60 g.

	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm	Piano wire Ø mm	Offcut retainer
405.MT	⩘	0,3 - 1,3	0,7	0,4	
406.MT	⌐⌒¬	0,1 - 1,3	0,7	STOP	
406.RMT	⌐⌒¬	0,1 - 1,1	0,6	STOP	•
407.MT	⌐¯¬	0,1 - 1,3	STOP	STOP	



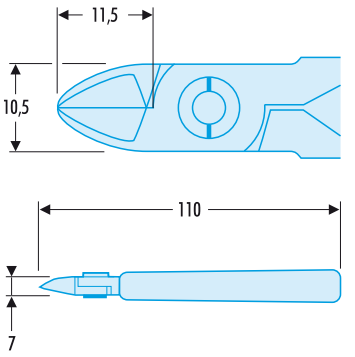
Stocky models for versatility

▷ ISO 9654

- Clean cut in a variety of materials, from copper to piano wire up to > 0.5 mm.
- Available with off-cut retaining system.

⚖ : 60 g.

	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm	Piano wire Ø mm	Offcut retainer
405.10MT	⋀	0,3 - 1,4	0,8	0,5	
405.10RMT	⋀	0,3 - 1,2	0,7	0,5	•



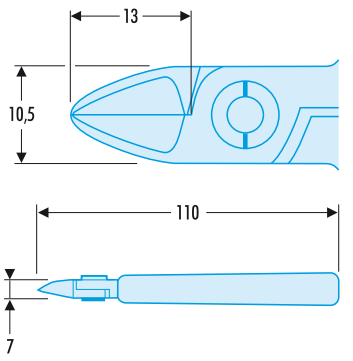
Long-reach models for accessibility

▷ ISO 9654

- Up to 1.5 to 2 mm more reach than standard cutting pliers
- Available with off-cut retaining system.

⚖ : 60 g.

	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm	Offcut retainer
435.MT	⌒	0,1 - 1,3	0,7	
435.RMT	⌒	0,1 - 1,1	0,7	•
425.MT	⌐	0,1 - 1,3	STOP	



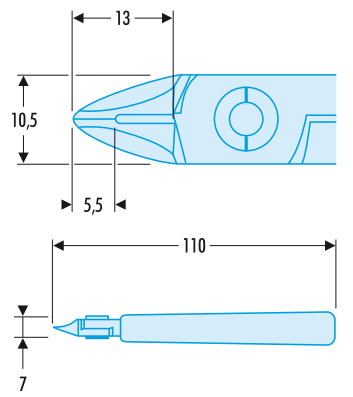
Slim-nose model with back clearance

▷ ISO 9654

- For cutting behind components and reaching under obstacles such as coils or resistors.

⚖ : 60 g.

	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm
436.MT	⌒	0,1 - 1,2	0,7
426.MT	⌐	0,1 - 1,2	STOP



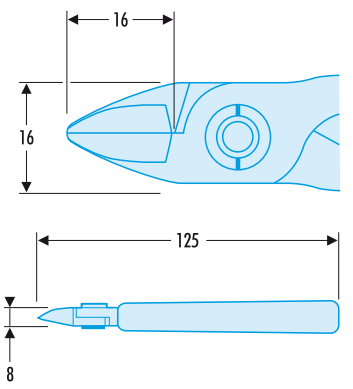
Heavy-duty models for power

▷ ISO 9654

- For tough applications and repetitive work on a wide range of materials.
- Piano wire 405.12 MT : 0.8 mm ; 405.12 RMT : 0.6 mm.
- Available with off-cut retaining system.

⚖ : 95 g.

	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm	Piano wire Ø mm	Offcut retainer
405.12MT	⋀	0,4 - 2,0	1,0	0,8	
405.12RMT	⋀	0,4 - 1,5	0,9	0,6	•
415.MT	⌒	0,3 - 2,0	0,9	STOP	
415.RMT	⌒	0,3 - 1,5	0,8	STOP	•



Pointed-nose cutting pliers

Pointed-nose pliers

• Are ideal where clearance is restricted and allow better visibility of the wire being cut.

SEMI-FLUSH CUT
Clean, long-life cut in semi-hard materials.

FLUSH CUT
Smooth cut for sound soldered connections.

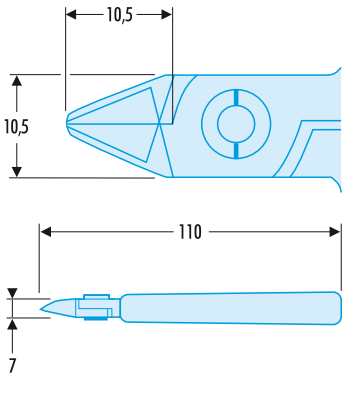
Pointed models

▷ISO 9654

- Taper nose for improved accessibility.
- Available with off-cut retaining system.

⚖ : 60 g.

	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm	Offcut retainer
416.MT		0,1 - 1,0	0,5	
416.RMT		0,1 - 0,9	0,5	•



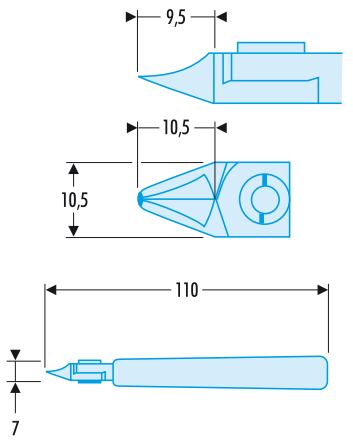
Pointed slim-nose models for manoeuvrability

▷ ISO 9654

- Slots in and around printed-circuit components, allowing good visibility.

⚖ : 60 g.

	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm	Offcut retainer
416.PMT		0,1 - 0,8	0,4	
417.PMT		0,1 - 0,8	STOP	



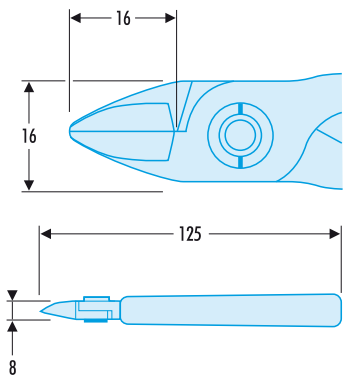
Heavy-duty taper nose

416.12MT

▷ ISO 9654

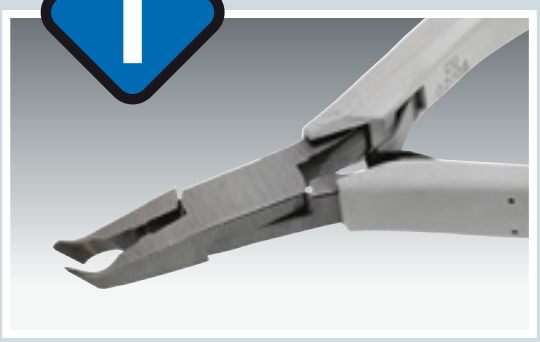
- Suitably sized for production applications.
- Semi-flush cut.
- Cu-Ni wire Ø 0.3 to 1.6 mm.
- Fe wire 30 HRc Ø 0.7 mm.

⚖ : 95 g.



Angled-nose cutting pliers

Angled-nose pliers



- *Ideal for use on printed circuits, electronic modules and hybrid circuits.*
- *Designed for cutting right up against the board in the smallest of spaces.*
- *Flush cutting edges.*

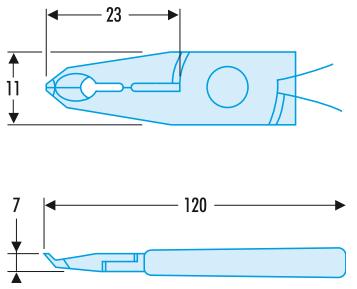
FLUSH CUT
Smooth cut for sound soldered connections.

30° cutters

427.MT

- Cutting edges at 30° with back clearance.
- Flush cut.
- Cu-Ni wire Ø0.2 to 0.6 mm.
- STOP Fe wire 30 HRc

⚖ : 65 g.



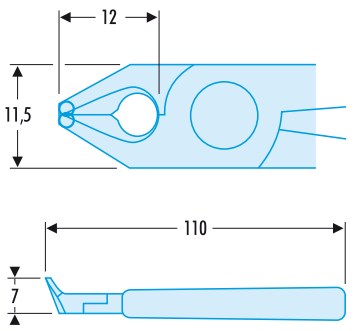
70° cutters

429.MT

▷ ISO 9654.

- Wide edges at 70° with large back clearance.
- Flush cut.
- Cu-Ni wire ∅ 0.2 to 1.0 mm.
- STOP Fe wire 30 HRc

⚖ : 60 g.



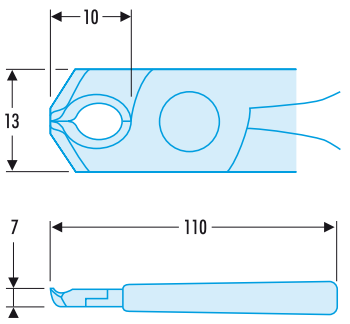
70° narrow cutters

430.MT

▷ ISO 9654.

- Narrow edges at 70° with back clearance.
- Flush cut.
- Cu-Ni wire ∅ 0.2 to 1.0 mm.
- STOP Fe wire 30 HRc

⚖ : 60 g.



End cutters

End cutters

- *End cutting edges allow vertical access.*
- *Extended profile reaches wires or components on crowded boards.*

AXIAL CUT
All materials, any application.

FLUSH CUT
Smooth cut for sound soldered connections.

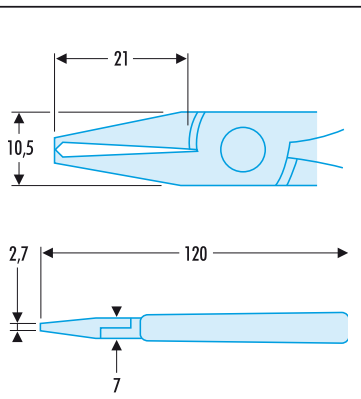
End cutters

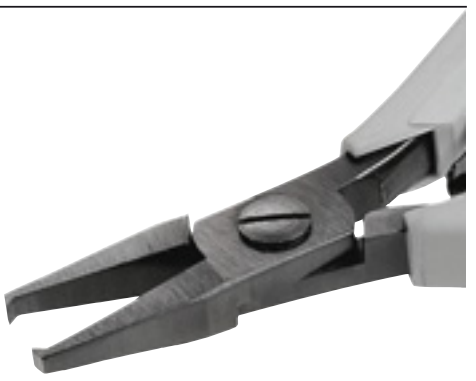
418.MT

▷ ISO 9654

- Long, narrow nose for vertical access.
- Flush cut.
- Cu-Ni wire ∅0.1 to 0.6 mm.
- (STOP) Fe wire 30 HRc

⚖ : 75 g.





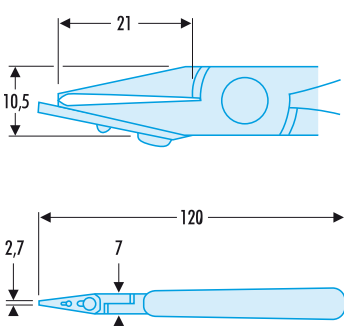
End cutters with adjustable stop

428.MT

▷ ISO 9654.

- Similar to 418 but with 0 to 4 mm adjustment for precision cut at set distance from board.
- Flush cut.
- Cu-Ni wire ∅0.1 to 0.6 mm.
- (STOP) Fe wire 30 HRc

⚖ : 75 g.



Cutting pliers for DIL, DIP and CMS components

For DIL, DIP and CMS components

- *Ideal for use on printed circuits, electronic modules and hybrid circuits.*
- *Designed for cutting right up against the board in the smallest of spaces.*
- *Flush cutting edges.*

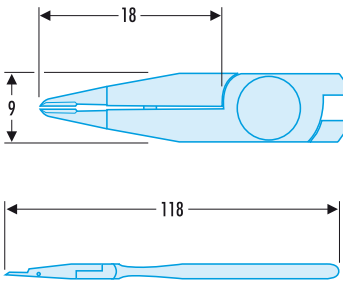
FLUSH CUT
Smooth cut for sound soldered connections.

Diagonal cutter for DIP components

437.MT

- Pointed, slim nose allows full access to DIP or SMD components.
- Flush cut.
- Cu-Ni wire ∅ 0.1 to 0.6 mm.

⚖ : 40 g.

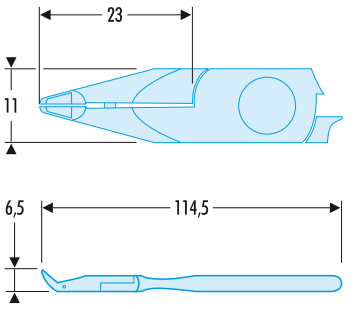


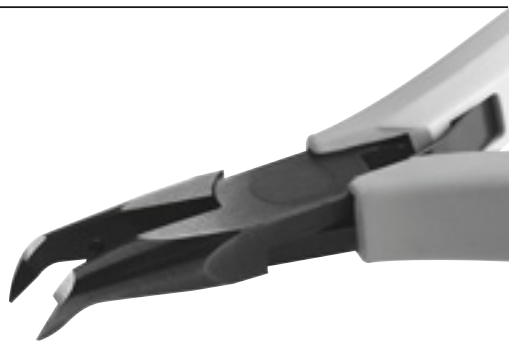
Inverted 45° cutters

419.MT

- Designed to reach DIP pins from behind on crowded boards.
- Flush cut.
- Cu-Ni wire ∅ 0.1 to 0.5 mm.

⚖ : 50 g.



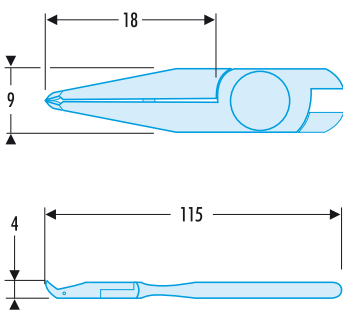


45° cutters

434.MT

- 45° cutters.
- Nose aligning pins.
- Flush cut.
- Cu-Ni wire ∅ 0.1 to 0.3 mm.

⚖ : 40 g.



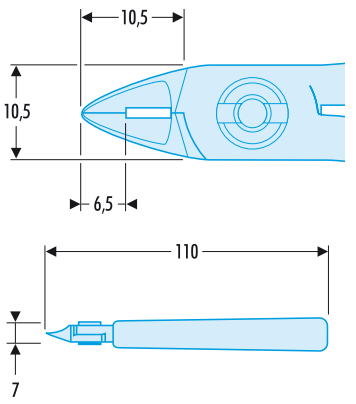
Diagonal cutters for DIP and CMS components

417.SPMT

▷ ISO 9654, DIN ISO 9654, NF ISO 9654.

- Designed to slot in the 0.65 mm gap between lugs of DIP components. The slender nose of this tool precludes its use for other purposes.
- Flush cut.
- Cu-Ni wire∅ 0.1 to 0.6 mm.

⚖ : 60 g.



Flat-nose gripping pliers

Flat-nose pliers

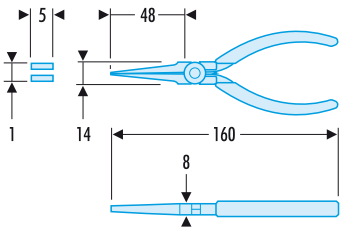
- *These pliers serve all professional needs in laboratory, production and maintenance applications.*
- *The rectangular-section jaws are smooth with contoured inside edges to avoid damage to components.*
- *Matt black non-reflective finish. Leaf spring.*

Extended-nose pliers

401.MT

▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
- For extra power.

⚖ : 80 g.

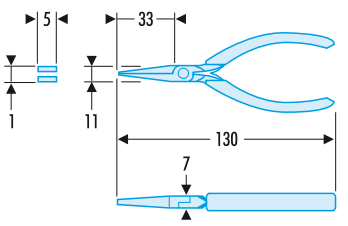


Rigid long-nose pliers

421.MT

▷ ISO 9655, DIN ISO 9655, NF ISO 9655.

⚖ : 70 g.

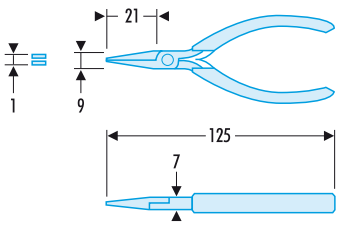


Shaping pliers

420.MT

▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
- Very slim nose.

⚖ : 60 g.

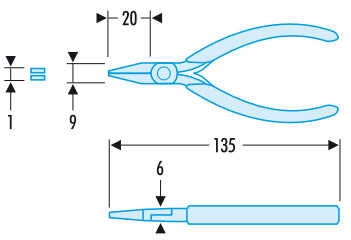


Short-nose pliers

431.MT

▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
- Slim joint for precision work.

⚖ : 55 g.

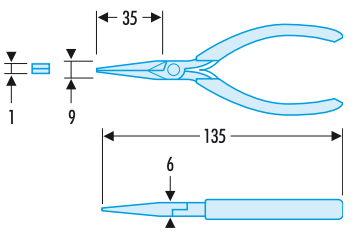


Snipe-nose pliers

431.LMT

▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
- Slim joint for precision work.

⚖ : 80 g.

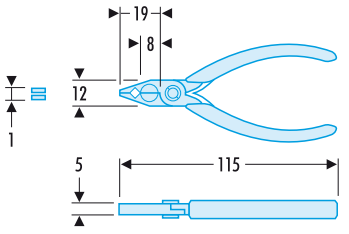


Mini combination pliers

443.12MT

- Side wire-cutter, capacity up to Ø1.7 mm in Cu ; Ø 1 mm in soft iron
- Stocky serrated nose, with tube-grip.
- Matt black anti-glare finish.

⚖ : 80 g.



Half-round nose gripping pliers

Half-round nose pliers

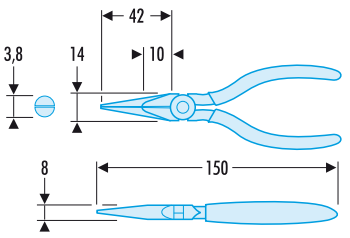
- *These pliers serve all professional needs in laboratory, production and maintenance applications.*
- *The half-round jaws are smooth with contoured inside edges to avoid damage to components.*
- *Presentation :*
  - Matt black anti-glare finish.
  - Leaf spring.

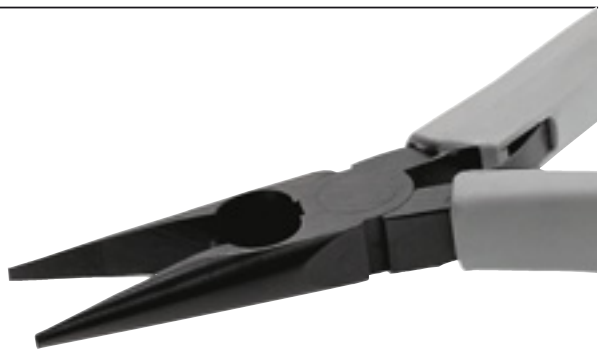
"Telephone" pliers

442.MT

▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
- Long stocky nose with fine end serrations.
- Side wire-cutter.

Ø max. : 2 mm Cu wire.
Ø max. : 1 mm Fe wire 30 HRc.
⚖ : 88 g.

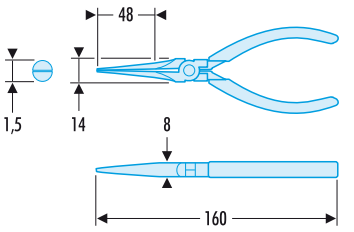




Extended-nose pliers

402.MT

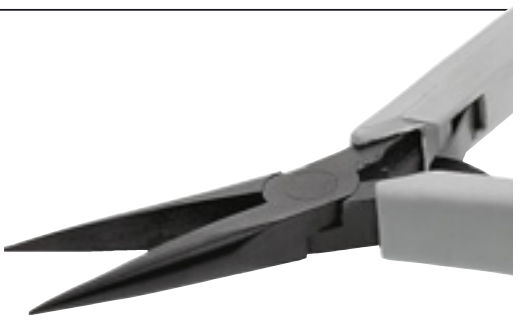
▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
• For extra power.
⚖ : 76 g.



Rigid long-nose pliers

422.MT

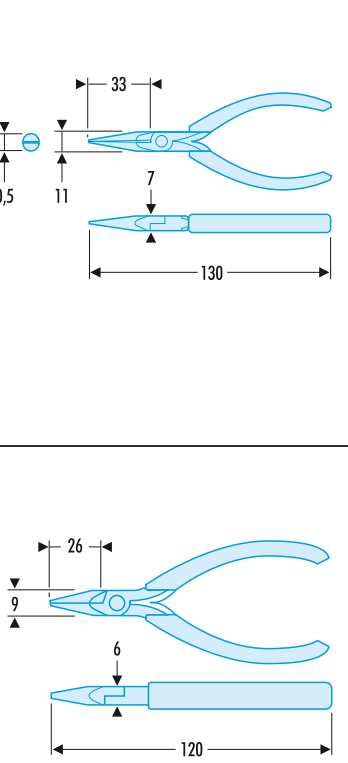
▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
⚖ : 70 g.

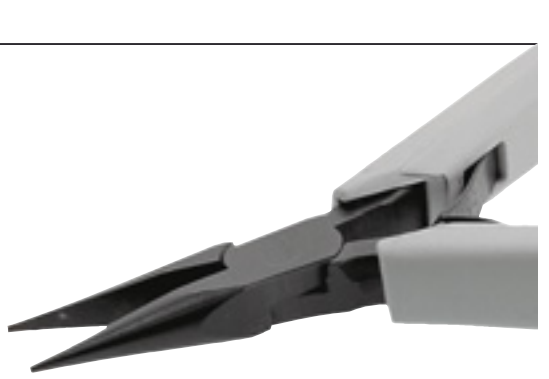


Short-nose pliers

432.MT

▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
• Slim joint.
⚖ : 55 g.

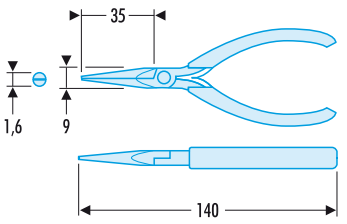




Snipe-nose pliers

432.LMT

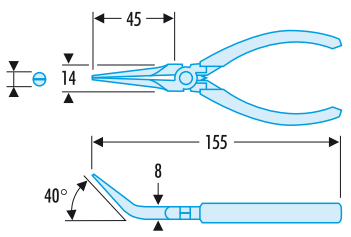
▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
• Slim joint for precision work.
⚖ : 65 g.



Extended-nose 40° pliers

403.MT

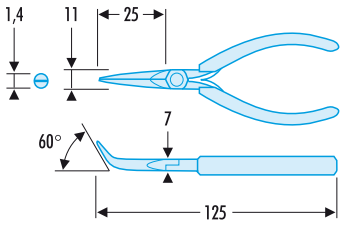
▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
• For extra power.
⚖ : 75 g.



Rigid-nose 60° pliers

423.MT

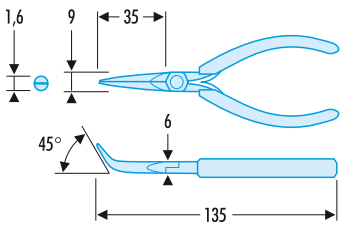
▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
⚖ : 70 g.



Thin-nose 45° pliers

433.LMT

▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
• Slim joint for precision work.
⚖ : 75 g.

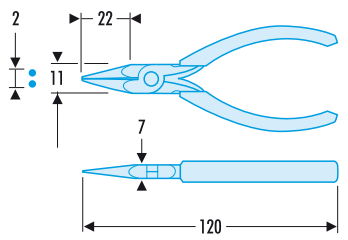


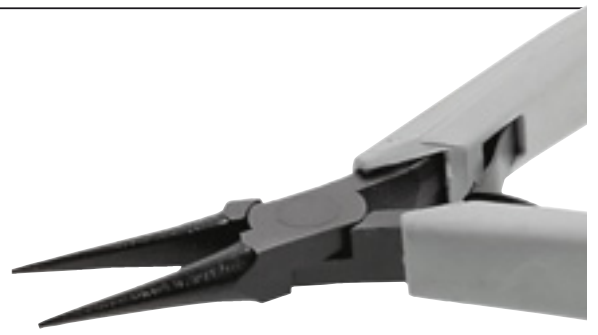
Round-nose pliers

Rigid short-nose pliers

424.MT

▷ ISO 9655, DIN ISO 9655, NF ISO 9655.
⚖ : 55 g.





Plier module

"Micro-Tech®" plier module

MOD.MT1

• Comprising :
- 405.MT - 405.12MT - 406.MT - 406.8MT - 402.MT - 433.LMT.
• PL.612.
⚖ : 650 g.

Anti-static series electronics pliers

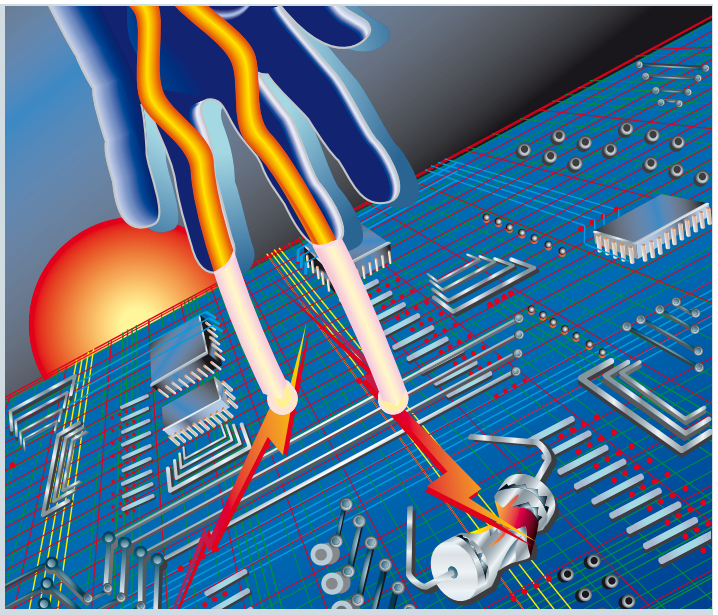
Static electricity

A DANGER FOR ELECTRONIC COMPONENTS

As they become smaller and more sophisticated, electronic circuits are increasingly at risk from static electricity - especially when the charge can build up to several thousand volts.

Controlling electrostatic build-up makes economic sense.

While the cost of a faulty component at acceptance-test stage is relatively small, it starts to increase once the component has reached the board, and escalates markedly once a fault involves sending back a complete unit. But the most important benefit in controlling static electricity is customer satisfaction.
Facom solves the problem with an antistatic range to EN 100-015/1.
For safe work on printed circuits, all tools and equipment used should be interlinked and effectively connected to earth.
Measurements and tests on antistatic screwdrivers and electronics pliers have been carried out in laboratories approved by the electrical industry.

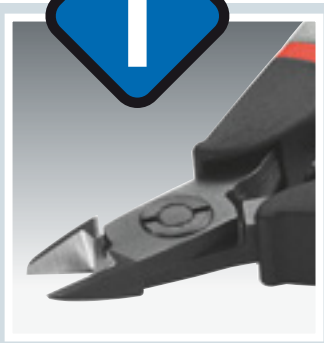


Safety first

Never use antistatic tools when working on live components.

Bullet-nose cutting pliers

Bullet nose pliers



Are stronger than other profiles.

Have a high cutting capacity and durability that are useful in a wide variety of applications.

AXIAL CUT
All materials, any application.

SEMI-FLUSH CUT
Clean, long-life cut in semi-hard materials.

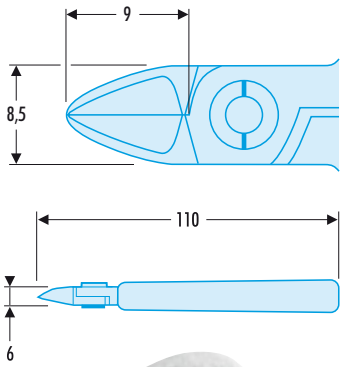
FLUSH CUT
Smooth cut for sound soldered connections.

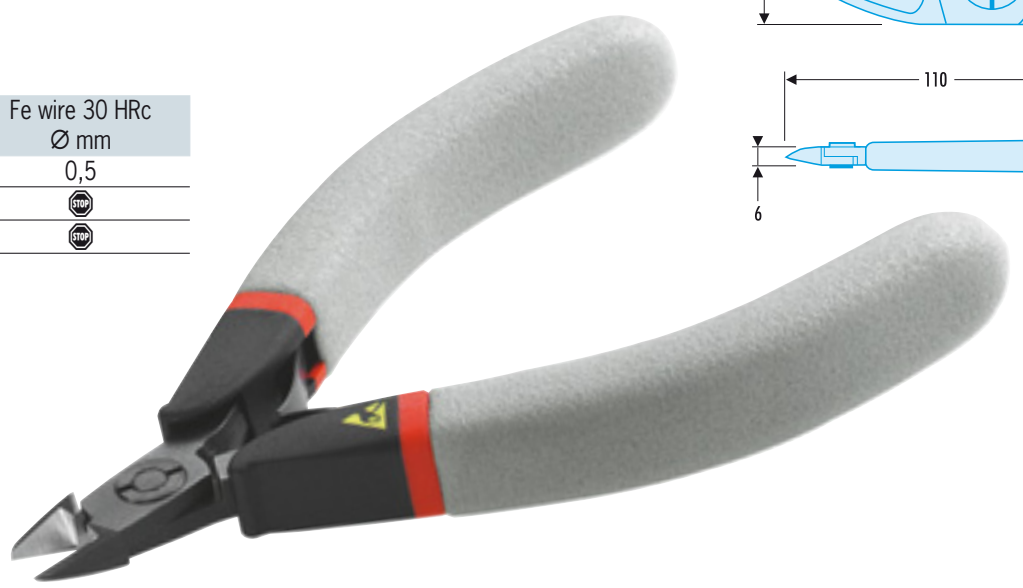
Slim-joint models for precision

▷ ISO 9654, DIN ISO 9654, NF ISO 9654.
- Suitable for miniature electronic components.
- Flush-cut model is longer for increased reach.

⚖ 55 g.

	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm
405.8E		0,2 - 1	0,5
406.8E		0,1 - 1	STOP
407.8E		0,1 - 1	STOP





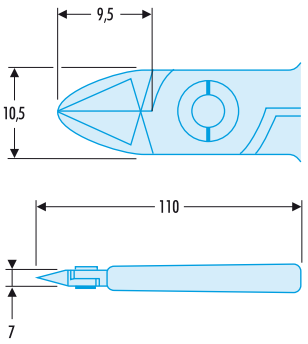
Anti-static series electronics pliers

Compact models for manoeuvrability

▷ ISO 9654, DIN ISO 9654, NF ISO 9654.
- Slimmer bullet-nose profile combines cutting performance with manoeuvrability.
- Model 405 is suitable for cutting piano wire ∅ 0.4 mm.

⚖ : 65 g.

	Cut	Cu - Ni wire ∅ mm	Fe wire 30 HRc ∅ mm
405.E	⌒	0,3 - 1,3	0,7
406.E	⌒	0,1 - 1,3	0,7
407.E	⌒	0,1 - 1,3	STOP

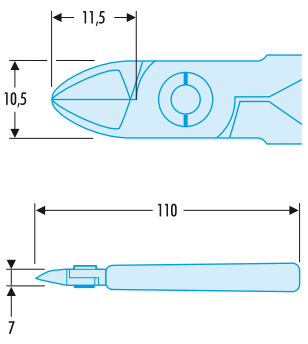


Stocky models for versatility

▷ ISO 9654, DIN ISO 9654, NF ISO 9654.
- Clean cut in a variety of materials, from copper to piano wire -> 0.5 mm.
- Available with offcut retaining system.

⚖ : 65 g.

	Cut	Cu - Ni wire ∅ mm	Fe wire 30 HRc ∅ mm	Offcut retainer
405.10E	⌒	0,3 - 1,4	0,8	
405.10RE	⌒	0,3 - 1,2	0,7	•

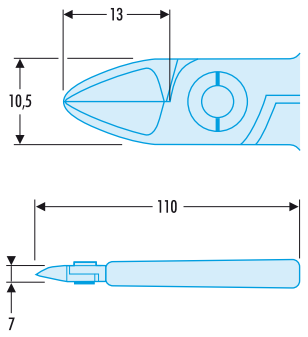


Long-reach models for accessibility

▷ ISO 9654, DIN ISO 9655, NF ISO 9654.
- Up to 1.5 to 2 mm more reach than standard cutting pliers
- Available with offcut retaining system.

⚖ : 65 g.

	Cut	Cu - Ni wire ∅ mm	Fe wire 30 HRc ∅ mm	Offcut retainer
425.E	⌒	0,1 - 1,3	STOP	
435.E	⌒	0,1 - 1,3	0,7	
435.RE	⌒	0,1 - 1,2	0,7	•

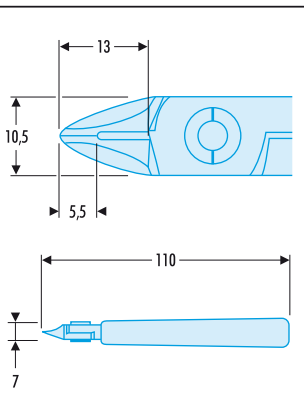


Slim-nose models with back clearance

▷ ISO 9654, DIN ISO 9655, NF ISO 9654.
- For cutting behind components and reaching under obstacles such as coils or resistors.
- Anti-static user-comfort type only.

⚖ : 65 g.

	Cut	Cu - Ni wire ∅ mm	Fe wire 30 HRc ∅ mm
436.E	⌒	0,1 - 1,2	0,7
426.E	⌒	0,1 - 1,2	STOP

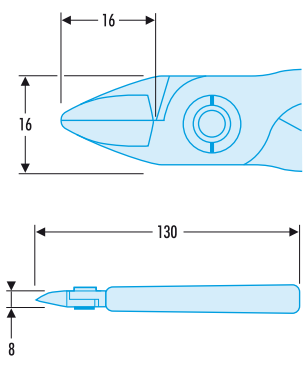


Heavy-duty models

▷ ISO 9654, DIN ISO 9654, NF ISO 9654.
- For tough applications and repetitive work on a wide range of materials.
- Piano wire : 405.12 C : 0.8 mm ; 405.12 RC : 0.6 mm.
- Available with offcut retaining system.

⚖ : 105 g.

	Cut	Cu - Ni wire ∅ mm	Cu - Ni wire ∅ mm	Offcut retainer
405.12E	⌒	0,4 - 2,0	1,0	
405.12RE	⌒	0,4 - 1,5	0,9	•
415.E	⌒	0,3 - 2,0	1,0	
415.RE	⌒	0,3 - 1,5	0,8	•



Pointed-nose cutting pliers

Pointed-nose pliers

• *Are ideal where clearance is restricted and allow better visibility of the wire being cut.*

SEMI-FLUSH CUT
Clean, long-life cut in semi-hard materials.

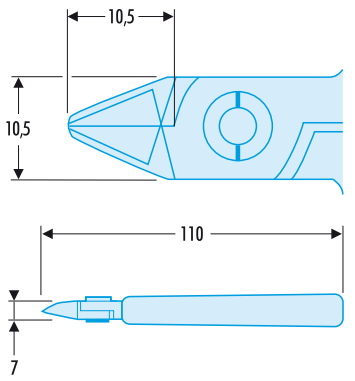
FLUSH CUT
Smooth cut for sound soldered connections.

Pointed models

416.E

▷ ISO 9654, DIN ISO 9654, NF ISO 9654.
• Taper nose for improved accessibility.
⚖ : 65 g.

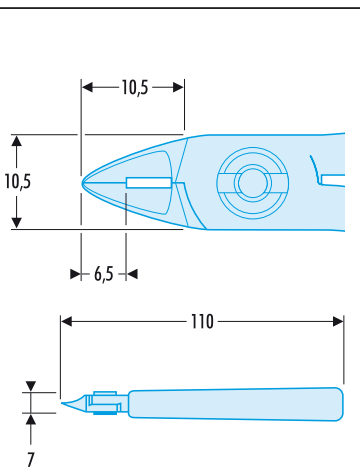
	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm
416.E		0,1 - 1,0	0,5



Pointed slim-nose models for manoeuvrability

▷ ISO 9654, DIN ISO 9654, NF ISO 9654.
• Slots in and around printed-circuit components, allowing good visibility.
⚖ : 65 g.

	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm
416.PE		0,1 - 0,8	0,4
417.PE		0,1 - 0,8	STOP

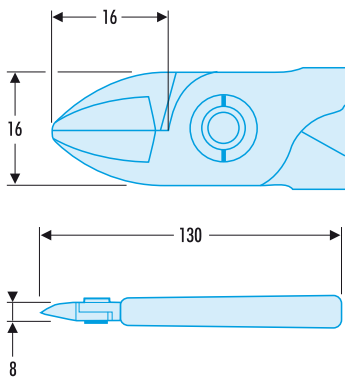


Heavy-duty taper nose

416.12E

▷ ISO 9654, DIN ISO 9654, NF ISO 9654.
• Suitably sized for production applications.
⚖ : 105 g.

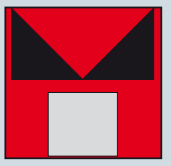
	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm
416.12E		0,3 - 1,6	0,7



Angled-nose cutting pliers

Angled-nose pliers

- *Ideal for use on printed circuits, electronic modules and hybrid circuits.*
- *Designed for cutting right up against the board in the minutest spaces.*
- *Flush cutting edges.*



FLUSH CUT
Smooth cut for sound soldered connections.

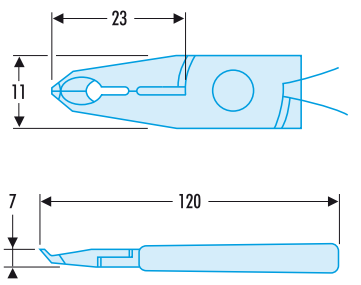
30° cutters

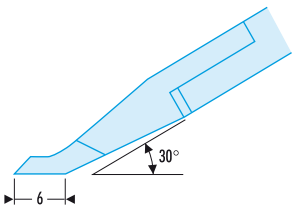
427.E

▷ ISO 9654, DIN ISO 9655, NF ISO 9654.
- "ESD" model.
- Cutting edges at 30° with back clearance.

⚖ : 65 g.

	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm
427.E	⌐¬	0,2 - 0,6	STOP





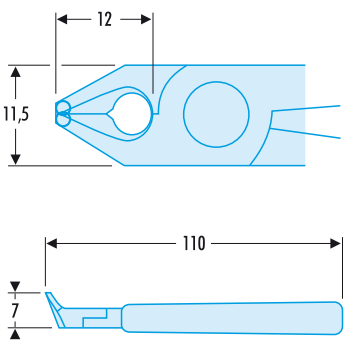
70° cutters

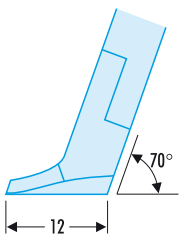
429.E

▷ ISO 9654, DIN ISO 9655, NF ISO 9654.
- "ESD" model.
- Narrow edges at 70° with back clearance

⚖ : 66 g.

	Cut	Cu - Ni wire Ø mm	Fe wire 30 HRc Ø mm
429.E	⌐¬	0,2 - 1,0	STOP





Cutting pliers for DIP and CMS components

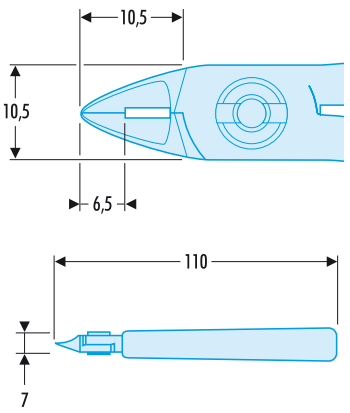
Diagonal cutters for DIP and CMS components

417.SPE

▷ ISO 9654, DIN ISO 9654, NF ISO 9654.
- Designed to slot in the 0.65 mm gap between lugs of DIP components. The slender nose of this tool precludes its use for other purposes.

⚖ : 60 g.

	Confort/ESD	Cut	Cu - Ni wire Ø mm
417.SPE	ESD	⌐¬	0,1 - 0,7

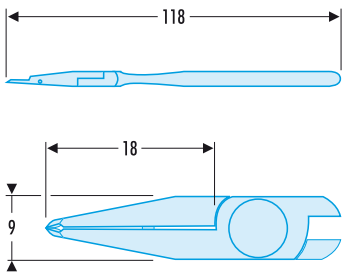


Diagonal cutters for DIP components

437.E

- Pointed, slim nose allows full access to DIP or SMD components.
- Flush cut.
- Cu-Ni wire ∅ 0.1 to 0.6 mm.

⚖ : 40 g.

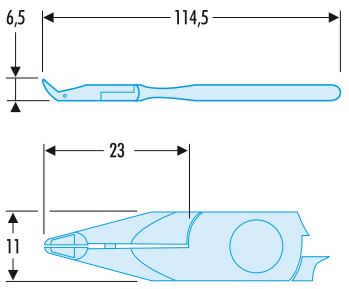


Inverted 45° cutters

419.E

- Designed to reach DIP pins from behind on crowded boards.
- Flush cut.
- Cu-Ni wire ∅0.1 to 0.5 mm.

⚖ : 50 g.

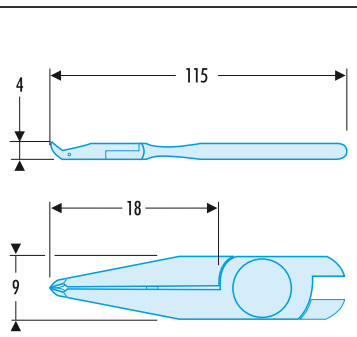


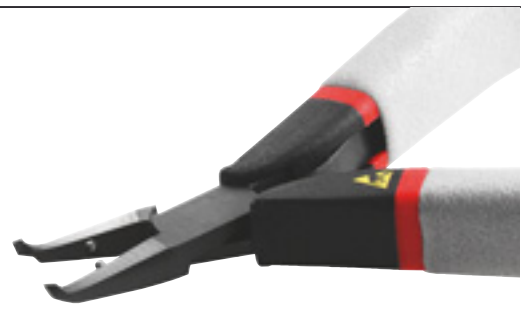
45° ESD cutters

434.E

- Cutting pliers angled at 45°.
- Nose aligning pins.
- Cu-Ni wire ∅ 0.1 to 0.3 mm.

⚖ : 40 g.





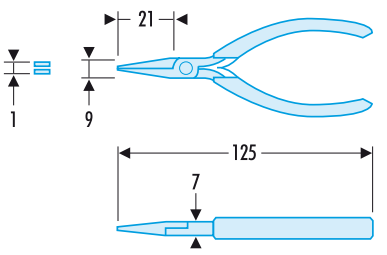
Gripping pliers

Flat-nose shaping pliers ESD model

420.C

- Very slim nose.

⚖ : 65 g.

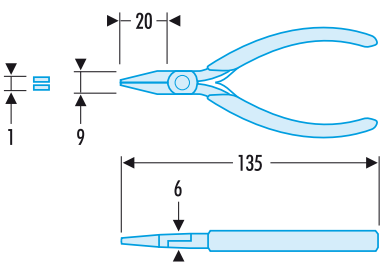


Short flat-nose pliers ESD model

431.E

- Slim joint for precision work.

⚖ : 65 g.

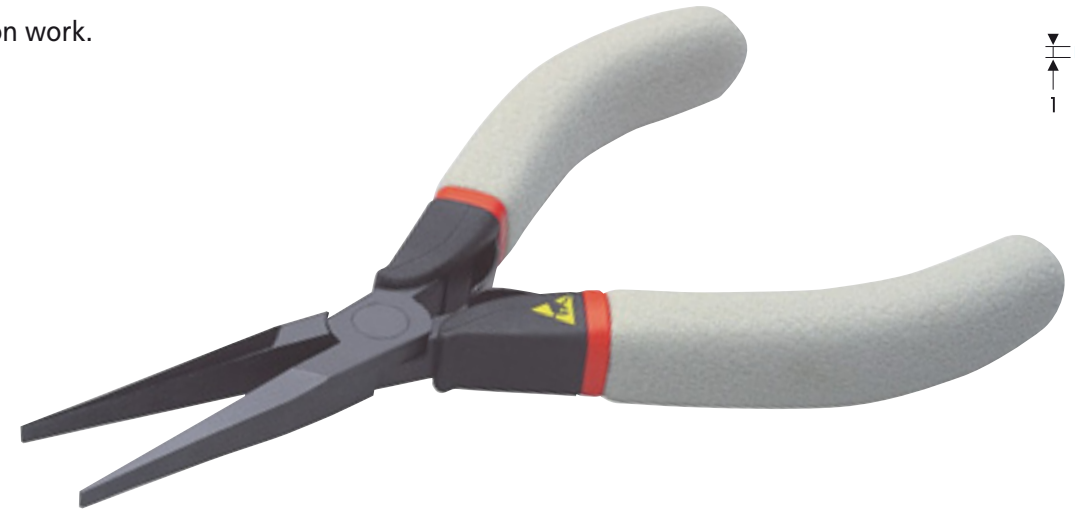


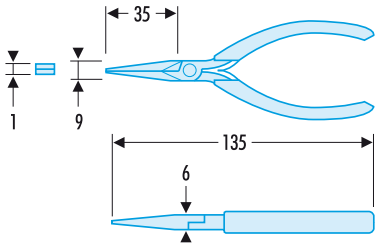
Snipe flat-nose pliers ESD model

431.LE

- Slim joint for precision work.

⚖ : 75 g.



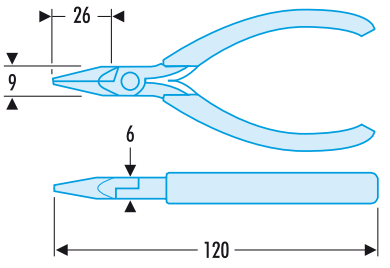


Half-round nose pliers ESD model

432.E

- Slim joint.

⚖ : 70 g.

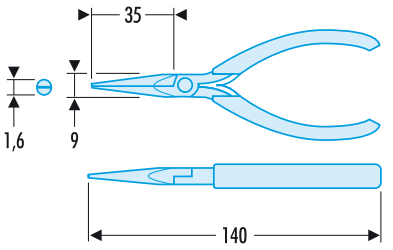


Half-round snipe nose pliers ESD model

432.LE

- Slim joint for precision work.

⚖ : 70 g.

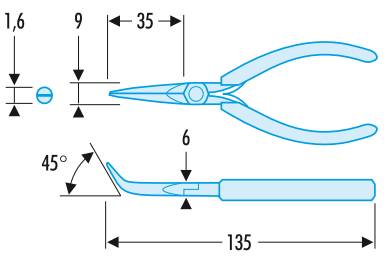


Half-round angle nose pliers ESD model

433.LE

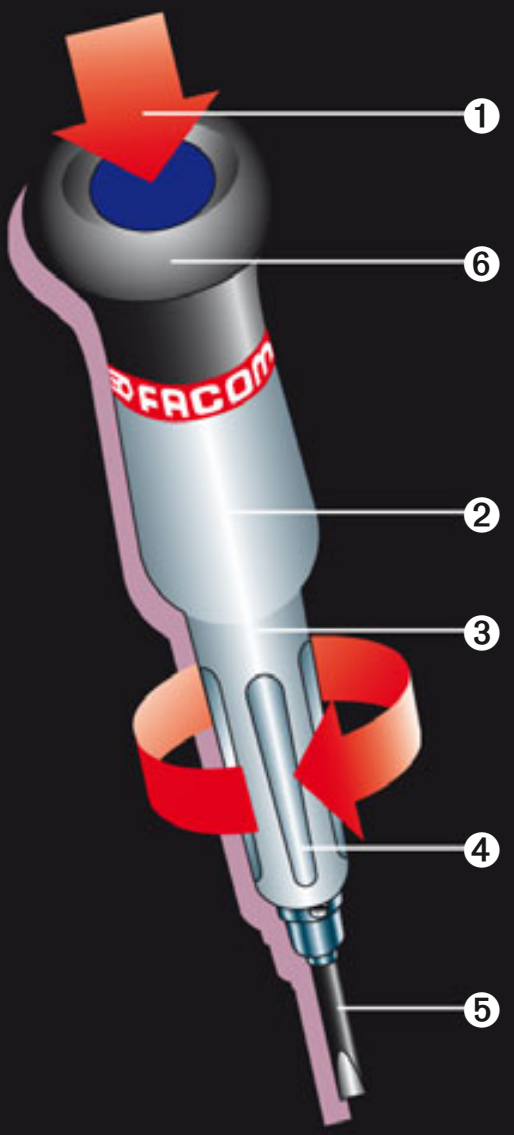
- 45° nose.
- Slim joint for precision work.

⚖ : 70 g.



"Micro-Tech®" screwdrivers

"Micro-Tech®" screwdrivers



❶ *Efficient*

- *The screwdriver end is designed to provide an effective pressure area in each of the three micro-engineering screwdriver positions. This end also rotates to optimize the turning motion.*

❷❸ *Powerful and accurate*

- *The body comprises a gripping surface designed for optimum torque transmission with handling accuracy. The handle is shaped so fingers can naturally grip the specially designed handle for total tool control.*

❹ *Quick and easy to use*

- *The ribbed cone provides maximum grip for fast pre-tightening. Blade clearance gives a clear view of the job in hand.*

❺ *A large choice of blades*

- *A selection of over 50 high-precision steel or ceramic fixed or replaceable blades.*

❻ *Easy identification*

- *colour-coded by size for instant selection of the correct tool.*

Finger-tip grip area

Watch makers grip area

Full palm grip area

Small screwdriver

- Screw-lock chuck.
- Presentation : Burnished blade.

	Ø mm	mm		Ø mm	g
AE.1,2X35	1,2 x 35	117	■	17 x 82	11,5
AE.1,5X35	1,5 x 35	117	■	17 x 82	11,5
AEP.000X35	2,0 x 35	117	■	17 x 82	11,5
AEP.00X35	2,5 x 35	117	■	17 x 82	11,5

Micro-Tech® screwdrivers for slotted heads

- Revolving end.
- Chromed blade, burnished tip.

	Ø mm	mm		Ø mm	g
AEF.1,5X35	1,5 x 35	117	■	17 x 82	12,1
AEF.1,8X35	1,8 x 35	117	■	17 x 82	13,2
AEF.2X35	2,0 x 35	117	■	17 x 82	13,5
AEF.2X75	2,0 x 75	157	■	17 x 82	14,5
AEF.2,5X35	2,5 x 35	117	■	17 x 82	13,3
AEF.2,5X75	2,5 x 75	157	■	17 x 82	14,5
AEF.3X75	3,0 x 75	168	■	21 x 93	21,2
AEF.3,5X75	3,5 x 75	168	■	21 x 93	24,7
AEF.4X75	4,0 x 75	168	■	21 x 93	26,4

Screwdrivers for Phillips® and Pozidriv®

Chromed blade, burnished tip.
Presentation : Burnished blade.

	mm	mm		Pattern no.	mm	g
AEFP.00X35	2,5 x 35	117	■	PH.00	17 x 82	12,5
AEFP.00X75	2,5 x 75	157	■	PH.00	17 x 82	14,9
AEFP.0X35	3,0 x 35	117	■	PH.0	17 x 82	13,5
AEFP.0X75	3,0 x 75	168	■	PH.0	21 x 93	32,2
AEFP.1X75	4,0 x 75	168	■	PH.1	21 x 93	37,5
AEFD.0X35	3,0 x 35	117	■	PZ.0	17 x 82	13,5
AEFD.0X75	3,0 x 75	168	■	PZ.0	21 x 93	32,2
AEFD.1X75	4,0 x 75	168	■	PZ.1	21 x 93	37,5

Screwdrivers for Torx®

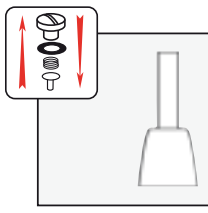
Chromed blade, burnished tip.

	mm	mm		Pattern no.	mm	g
AEX.5X35	2,0 x 35	117	■	T x 5	17 x 82	13,0
AEX.6X35	2,0 x 35	117	■	T x 6	17 x 82	13,3
AEX.7X35	2,5 x 35	117	■	T x 7	17 x 82	13,3
AEX.8X75	2,5 x 75	168	■	T x 8	21 x 93	31,7
AEX.9X75	3,0 x 75	168	■	T x 9	21 x 93	32,6
AEX.10X75	3,0 x 75	168	■	T x 10	21 x 93	32,6
AEX.15X75	3,5 x 75	168	■	T x 15	21 x 93	35,0
AEX.20X75	4,0 x 75	168	■	T x 20	21 x 93	40,8

Ceramic-blade screwdrivers

Removable blade.

	Dimensions mm	L mm
AEMC.0,9	0,4 x 0,9	116
AEMC.1,3	0,4 x 1,3	116
AEMC.1,8	0,4 x 1,8	116
AEMC.2,6	0,4 x 2,6	116



AEC.0,9	0,4 x 0,9
AEC.1,3	0,4 x 1,3
AEC.1,8	0,4 x 1,8
AEC.2,6	0,4 x 2,6

84E Hexagonal drivers

- Burnished blade

	mm	Total length mm		g
84E.0,9X35	0,90	117	■	14,4
84E.1,3X35	1,30	117	■	15,0
84E.1,5X35	1,50	117	■	15,0
84E.1,5X75	1,50	157	■	15,0
84E.2X75	2,00	168	■	30,0
84E.2,5X75	2,50	168	■	32,0

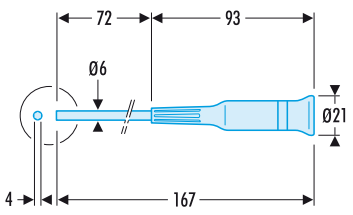
Bit driver ∅ 4 mm

AEM.M

- Takes 0-series bits.
- Burnished shank
- Size :

- Overall length 167 mm.
- Blade length 6 x 72 mm.
- Handle length 21 x 93 mm.

△ : 49.6 g.

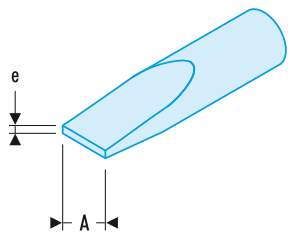


"Micro-Tech®" screwdrivers

0-series bits - 4 mm drive

ES.0 Bits for slotted heads

	e x A mm	L mm	⚖ g
ES.001,8	0,3 x 1,8	28	3,0
ES.002	0,4 x 2,0	28	3,0
ES.002,5	0,4 x 2,5	28	3,1
ES.003	0,5 x 3,0	28	3,1
ES.004	0,5 x 4,0	28	3,2
ES.004,5	0,6 x 4,5	28	3,2



EP.0 Phillips® head ∅ 4 mm

	Phillips® no.	L mm	⚖ g
EP.0X2	PH.00	28	3,2
EP.000	PH.0	28	3,2

ED.0 Pozidriv® head ∅ 4 mm

	Pozidriv® no.	L mm	⚖ g
ED.0X2	PZ.00	28	3,2
ED.000	PZ.0	28	3,2
ED.001	PZ.1	28	3,2

ES.0 Bits for hexagon socket heads

	⬣ mm	L mm	⚖ g
EH.000,9	0,9	28	3,0
EH.001,3	1,3	28	3,1
EH.001,5	1,5	28	3,1
EH.002	2,0	28	3,2
EH.002,5	2,5	28	3,2

ES.0 Spherical head bits for hexagon socket heads

- Spherical head allows up to 30° working angle.

	⬣ mm	L mm	⚖ g
ETS.001,5	1,5	28	3,1
ETS.002	2,0	28	3,2
ETS.002,5	2,5	28	3,2

Drive socket adaptor

ECR.0

- adaptor for using ☐ 1/4" "radio" sockets with the A.300MT and A.340MT series screwdrivers.
- 4 mm hexagonal drive.
- Length 22 mm.

⚖ : 7 g.

Case set of "Micro-Tech®"

Case set of 5 "Micro-Tech®" screwdrivers

AEF.J1

		mm	Comprising	g
AEF.J1	AEFP.00 x 35	178 x 91 x 25	AEF.1,5 x 35 - 1,8 x 35 - 2 x 35 - 2,5 x 35	170

Case set of 8 "Micro-Tech®" screwdrivers

AEF.J3

		mm	Comprising	g
AEF.J3	AEFP.00 x 75 - 0 x 75 - 1 x 75	205 x 130 x 31	AEF.2 x 75 - 2,5 x 75 - 3 x 75 - 3,5 x 75 - 4 x 75	384

Case set of 5 "Micro-Tech®" screwdrivers

AEF.J5

	Contents ⊖	Contents ⊕	mm	g
AEF.J5	AEF.2x75-2,5x75-3x75	AEFD.0x75-1x75	183 x 109 x 32	230

Case set of 8 "Micro-Tech®" screwdrivers

AEF.J6

	Contents ⊖	Contents ⊕	⊛ no.	mm	g
AEF.J6	AEF.2x75-2,5x75-3x75-3,5x75-4x75	AEFP.00x75	AEFD.0x75-1x75	215 x 130 x 31	385

Case set of 5 "Micro-Tech®" screwdrivers for Phillips®

AEFP.J1

	mm	Comprising	g
AEFP.J1	183 x 109 x 32	00 x 35 - 00 x 75 - 0 x 35 - 0 x 75 - 1 x 75	267

Case set of "Micro-Tech®"

Case set of 5 "Micro-Tech®" screwdrivers

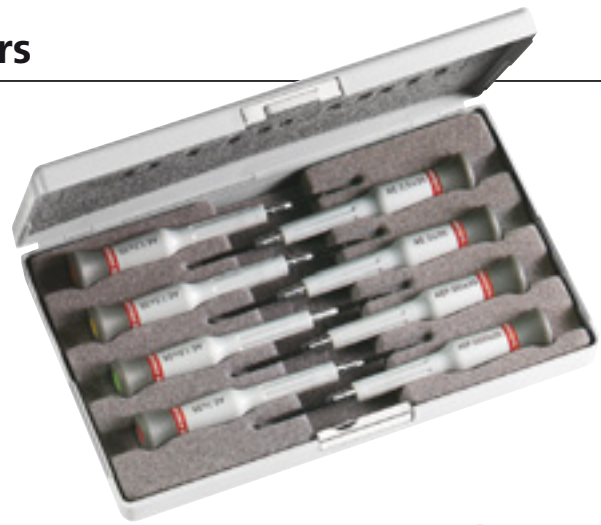
AEF.J2

	mm	Comprising	g
AEF.J2	183 x 109 x 32	2 x 75 - 2,5 x 75 - 3 x 75 - 3,5 x 75 - 4 x 75	237

Case set of 8 interchangeable blade screwdrivers

AE.J1

	mm	Comprising	g
AE.J1	205 x 130 x 31	⊖ AE.1x35 - 1,2x35 - 1,5x35 - 1,8x35 - 2x35 - 2,5x35 ⊕ AEP.000x35 - 00x35	270



Case set of 5 "Micro-Tech®" screwdrivers for Torx®

AEX.J1

	mm	Comprising	g
AEX.J1	183 x 109 x 32	AEX.6 x 35 - 7 x 35 - 8 x 75 - 9 x 75 - 10 x 75	280

Case set of 8 "Micro-Tech®" screwdrivers for Torx®

AEX.J2

	mm	Comprising	g
AEX.J2	205 x 130 x 31	AEX 5 x 35 - 6 x 35 - 7 x 35 - 8 x 75 - 9 x 75 - 10 x 75 - 15 x 75 - 20 x 75	335

Case set of 6 "Micro-Tech®" hexagonal drivers

84E.J1

	mm	Comprising	g
84E.J1	183 x 109 x 32	84E.0,9 x 35 - 1,3 x 35 - 1,5 x 35 - 2 x 75 - 2,5 x 75	250

Case set of 9 "Micro-Tech®" wrenches

34.JE9

	mm	Comprising		g
34.JE9	123 x 95 x 28	34. 3,2 - 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10	9	176

Case set of 10 "Micro-Tech®" wrenches

39.JE10

	mm	Comprising		g
39.JE10	123 x 95 x 28	39.3,2 - 4 - 5 - 5,5 - 6 - 7 - 8 - 9 - 10 - 11	10	240

"Micro-Tech®" tool sets

16-piece tool set

MT.J1

- Plastic case 366 x 180 x 66 mm.
- Comprising :

- Screwdrivers AE.1 x 35-1.2 x 35.
- Screwdrivers AEF.1.5 x 35-1.8 x 35-2 x 35-2.5 x 35.
- Screwdriver AEP.000 x 35.
- Screwdriver AEFP.00 x 35 .
- Hexagonal drivers 84E.0.9 x 35 - 1.3 x 35 - 1.5 x 35.
- Pliers 405.10MT-432LMT.
- Scissors 841.1.
- Scalpel 845.1
- Tweezers 140AA.

⚖ : 1.075 kg.

9-piece tool set

MT.J2

- Plastic case 285 x 138 x 26 mm.
- Comprising :

- Mirror 834.R1.
- Spring hook 835.A.
- Mechanical retriever 826.0.
- Mechanical retriever 827.2.
- Screw starters AFE.1-AFEX.1.
- Pen light 836.
- Nut starter 825.
- Pin vice 1817.

⚖ : 627 g.

11-piece tool set

MT.J3

- Comprising :

- Screwdrivers AE.1.2 x 35-AEF.1.5 x 35-1.8 x 35-2 x 35-2.5 x 35.
- Screwdrivers AEFP.000 x 35-00 x 35-0 x 35
- Tweezers 140A.
- Pliers 405.10 MT-432 LMT.

- In a plastic case 285 x 138 x 26 mm.

⚖ : 726 g.

"Micro-Tech®" sets

16-piece bit set

AEM.J1

Comprising :
- Bit driver AEM.M.
- Bits for slotted heads ES.002 - 002.5 - 003 - 004 - 004.5.
- Bits for Phillips® heads EP.0 x 2 EP.000.
- Bits for Pozidriv® heads ED.0 x 2 ED.000.
- Bits for hexagon heads EH.001.5 - 002 - 002.5.
- Bits for hexagon heads ETS.001.5 - 002 - 002.5.

Case 183 x 109 x 32 mm.
⚖ : 237 g.

26-piece bit and socket set

AEM.J2

Comprising :
- All items from set AEM.J1 plus.
- Bits for Torx® heads EX.006 - 007 - 008 - 010.
- Socket coupler ECR.0.
- "Radio" sockets R. 3.2 - 4 - 5 - 5.5 - 7.

Plastic case 205 x 130 x 31 mm.
⚖ : 340 g.

Watchmaker screwdriver sets

5-piece set of screwdrivers for slotted heads

HB.1B

5 screwdrivers for slotted heads ⊖ : 0.8x13 - 1x16 - 1.2x17 - 1.6x19 - 2.5x21.

6-piece screwdriver set

HB.2B

3 screwdrivers for Pozidriv® heads ⊖ 1.5 - 2 - 2.5.
3 screwdrivers for Phillips® heads ⊕ PH N00 - 0 - 1.
Chrome finish, burnished blade.

9-piece set of screwdrivers for slotted heads

HB.4

9 screwdrivers for slotted heads ⊖ : 0.6x11 - 0.8x11 - 1x12 - 1.2x12 - 1.4x12 - 1.6x15 - 2x15 - 2.5 x 15.5 - 3x15.5.
Supplied on a carousel.

Standard series

140 Straight models

- Non-serrated pointed tips.

	Finish	Length mm	Material	⚖ g
140.AA	Satin polish	125	Antimagnetic stainlessd steel	17
140.AAW13	Non-reflective black	130	Carbon steel	16

Straight model

148

- Narrow pointed non-serrated tips.
- Stainless steel.
- Fine polish finish.
- Length 130 mm.

⚖ : 15 g.

Straight model

149

- Long, fine serrated tips, guide pin.
- Stainless steel.
- Fine polish finish.
- Length 155 mm.

⚖ : 18 g.

Straight model

150

- Long strong serrated tips, guide pin.
- Stainless steel.
- Fine polish finish.
- Length 165 mm.

⚖ : 22 g.

Model 150 at 40°

151

- Long strong serrated tips, guide pin.
- Stainless steel.
- Fine polish finish.
- Length 155 mm.

⚖ : 22 g.

Model 149 at 45°

152

- Fine serrated tips, guide pin.
- Stainless steel.
- Fine polish finish.
- Length 150 mm.

⚖ : 19 g.

Straight model

153

- Cross-over, self-gripping serrated tips.
- Stainless steel.
- Fine polish finish.
- Length 150 mm.

⚖ : 23 g.

Straight model

154

- Strong rigid tips, serrated for cables.
- Stainless steel.
- Fine polish finish.
- Length 155 mm.

⚖ : 30 g.

PVC-coated series

PVC model

149.Y

- Length 155 mm.

⚖ : 25 g.

PVC model

152.Y

- Length 150 mm.

⚖ : 25 g.

Gripping model

146.1Y

- ∅ 2.5 to 4 mm in-line grip.
- Length 140 mm.

⚖ : 25 g.

Gripping model

146.2Y

- ∅ 2.5 to 4 mm right-angle grip.
- Length 140 mm.

⚖ : 25 g.

High-precision series

141 Straight models

- Non-serrated easy-flex snipe tips.

	Length mm	⚖ g
141.11	110	13
141.12	120	14

Straight shouldered model

142.1

- Non-serrated easy-flex snipe tips.
- Length 112 mm.

⚖ : 13 g.

Offset model at 15

142.2

- Non-serrated easy-flex snipe tips.
- Length 117 mm.

⚖ : 15 g.

Curved model

143

- Non-serrated easy-flex snipe tips.
- Length 114 mm.

⚖ : 14 g.

Ultra-flat straight model

144

- Finely contoured, non-serrated tips.
- Length 120 mm.

⚖ : 17 g.

Splayed straight model

145

- Non-serrated tips.
- Tip width 7 mm.
- Length 123 mm.

⚖ : 14 g.

Heavy-duty straight model

156

- Serrated snipe tips.
- Length 110 mm.

⚖ : 15 g.

Specialised tweezers

Solid plastic tweezers

150.P1

- Polypropylene, can be sterilised up to 180C.
- Length 125 mm.

⚖ : 6 g.

150.P Anti-static solid plastic tweezers

To DIN 53482.

- Anti-static glass fibre-reinforced (20 %) polyamide.
- Antimagnetic.
- Acid-resistant.
- Heat-resistant up to 200C.
- Non-serrated precision tips.

150.P10 : Straight splayed tips.
150.P11 : Fine, angled tips.

	Length mm	⚖ g
150.P10	120	5
150.P11	120	5

Cutting model for very fine wire

139

- Carbon alloy steel for perfect cutting edges.
- Very high precision cut.
- Fine polish finish.
- Tip width 10 mm.
- Length 110 mm.

⚖ : 27 g.

Tweezer sets

Tweezer sets

- Sets are supplied in plastic cases.

	mm	Comprising	⚖ g
147.J5	178x91x24	Set of 5 standard tweezers : 151 - 152 - 140.AA	240
147.J6	205x130x31	Set of 8 standard and sheathed tweezers : 150 - 151 - 153 - 149.Y - 152.Y - 146.1Y - 146.2Y - 140.AA	410
147.J7	205x130x31	Set of 7 high precision tweezers : 140.AA - 141.14 - 142.1 - 142.2 - 143 - 144 - 145	335

Special "Micro-Tech®"

Circlip pliers

Set of pliers for inside and outside circlips

470.MT

- Comprising :

- Pliers 467.PMT.
- Pliers 469.PMT.
- 6 sets of pegs.

- Pliers fitted with return spring and screw stop to prevent circlip distortion and ensure precision of compression or expansion.
- Polished chrome finish. PVC grips.
- Supplied in plastic case 285 x 142 x 46 mm.

Truarc®

Truarc®

1813

- Holds Truarc clips securely, up to ∅ 6 mm. Ideal in confined spaces
- Length : 170 mm.

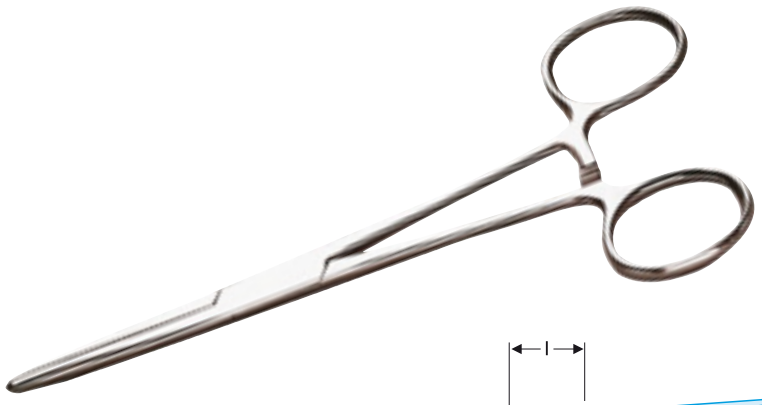
⚖ : 19 g.

Ring pliers

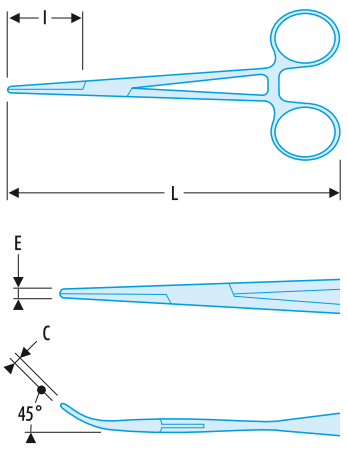
Ring pliers

438 Standard straight model.
438.1 Slim straight model.
439 Standard angled model.
439.1 Slim angled model.

- Ideal for miniature work.
- Self-locking.
- For holding components or wire during fitting or soldering.
- Scissor joint.
- Polished chrome finish.



	E mm	L mm	l mm	C mm	⚖ g
438	2,5	140	35	2	30
438.1	2,0	160	38	2	31
439	2,5	140	35	2	33
439.1	2,0	160	38	2	31



Miscellaneous tools

Short, very pointed scissors

841.1

- Precision cut.
- Left/right hand.
- Polished chrome finish, PVC grips.
- Length 110 mm. Blade length 24 mm.

⚖ : 27 g.

Long pointed scissors

841.2

- Multi-purpose, left/right hand.
- Polished chrome finish, PVC grips.
- Length 120 mm. Blade length 42 mm.

⚖ : 36 g.

Serrated-blade scissors

841.3

- Short bullet nose for cutting thin sheet-metals.
- Left/right hand.
- Polished chrome finish.
- Length 105 mm. Blade length 14 mm.

⚖ : 27 g.

Scalpel with interchangeable blades

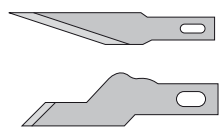
845.1

- Clean, accurate cut.
- Positive blade fitting.
- 2 blade designs.
- Length : 150 mm.
- Scalpel with 10 blades type L1.

⚖ : 15 g.

- Spare blades :

- 845.L1 Set of 10 straight tapered blades.
- 845.L2 Set of 10 offset blades.



"Micro-Tech®" Hacksaw Frame

607.MT

- Secure grip. Lightweight Zamak body. Light-duty saw for plastics, wood and metal.
- Supplied with 150 mm blade.
- Overall length 262 mm.

⚖ : 140 g.

Pin vice

1817

- Two-collet chuck at both ends.
- Takes any cylindrical tool ∅0.5 to ∅ 3.5.
- Length 110 mm.

⚖ : 35 g.

Precision three-square scraper

1816

- For careful work in small areas.
- Reversible blade fully retracts into handle for safety.
- Length 90 mm.

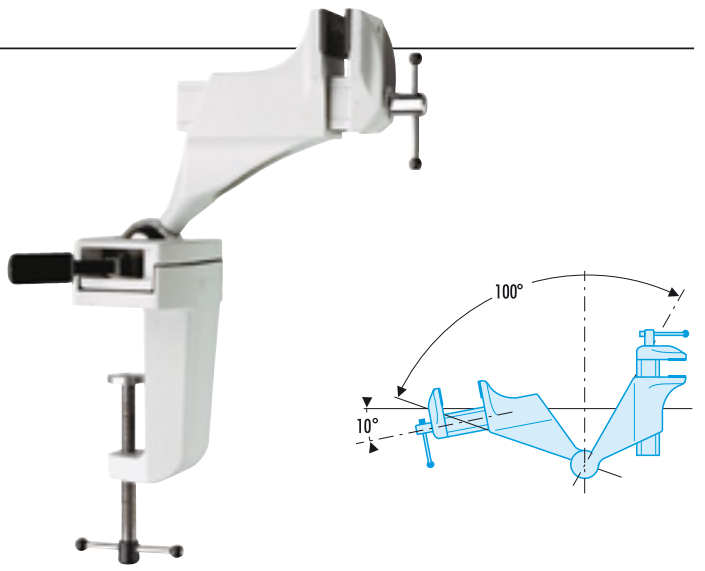
⚖ : 26 g.

"Micro-Tech®" Swivel vice

1150.MT

- Designed to achieve optimum accuracy through enhanced operator comfort.
- Quick-lock lever on ball joint.
- Clamps securely to any support up to 80 mm thick.
- Bonded plastic jaws 50 mm.
- Max. jaw capacity 70 mm.
- Max. throat depth 38 mm.

⚖ : 1.4 kg.

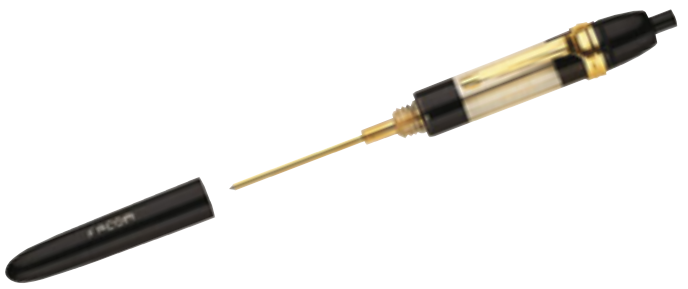


Spot oiler

372

- Accurate lubrication from drop feed by slight pressure on end button.
- See-through level.
- Nozzle cap.
- Metal pocket-clip.
- Capacity : 5 cm³.

⚖ : 20 g wide.



Nut starter

825.MT

- Micro-Tech® screwdriver handle with revolving end.
- Hexagon nut capacity 3 to 14 mm A/F.
- Shank length 150 mm. Overall length 240 mm wide.
- Anti-corrosion treatment.

⚖ : 60 g wide.

Four-claw retriever

826.0

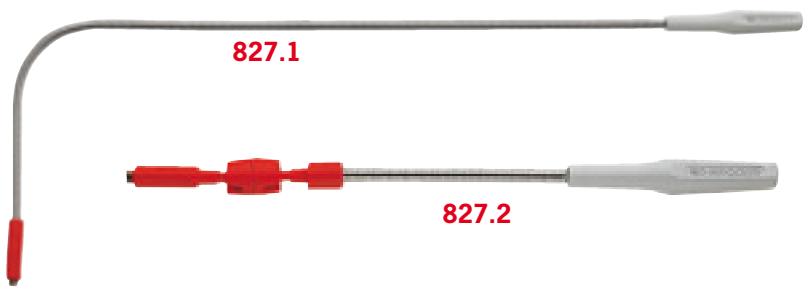
- For recovering small flat components up to ∅ 30 mm.
- Nickel finish.

⚖ : 20 g wide.

827 Ultra-slim magnetic retrievers

827.1 : Long-reach flexible model ∅ 7 mm head.
827.2 : Ball-joint model ∅ 8 mm head.

	Length mm	Max lifting capacity g	⚖ g
827.1	530	120	80
827.2	210	120	26



Flexible magnetic retriever

827.M

- Powerful magnet (3 kg).
- Magnetic flux conductor prevents sticking to sides.
- Length 560 mm. Adjustable stiffness.
- ∅ 20 mm magnet.

⚖ : 130 g wide.

New

Pen light

836

- Aluminium body and tube.
- Length : 137mm.
- Tube diameter : 14mm.
- Operates using two LR03 AAA (1.5volt) batteries, not included.
- Adjustable focal length.
- Supplied with wrist strap
- Replacement bulb reference : 836.AMP.

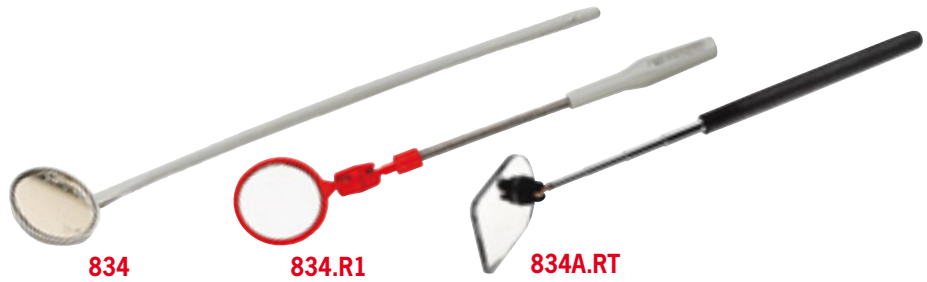
⚖ : 29g.

834 Inspection mirrors

- Mirror in plastic frame.

834 : Fixed, rigid.
834.R1 : Articulated, flexible
834.R2 : Articulated, flexible
834A.RT : Articulated, telescopic.

	Ø Mirror mm	L mm	⚖ g
834	24	175	4
834.R1	36	210	13
834.R2	55	360	40
834A.RT	44	210-700	48

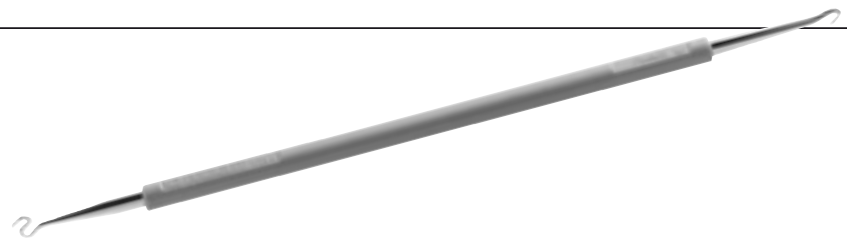


Spring hook

835A

- With push and pull hooks.
- Sleeved chromed shank.
- Length 200 mm wide.

⚖ : 13 g wide.

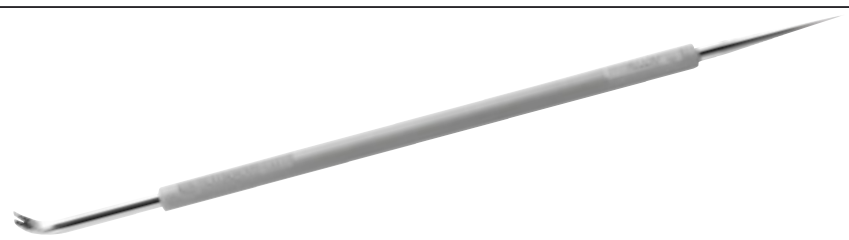


Separator

835.1

- With fork and point Ø0.5 mm.
- Sleeved chromed shank.
- Length 210 mm.

⚖ : 15 g.

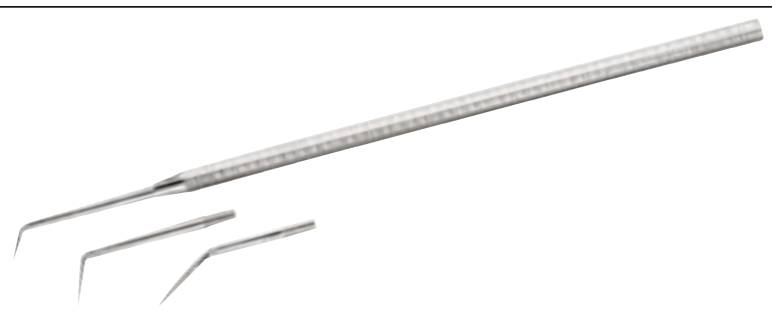


Separator

835.2

- Supplied with 3 interchangeable ultra-fine curved tips.
- Chrome finish.
- Length 210 mm.

⚖ : 25 g.



1830 Brushes

For cleaning or dusting.
1830.1 Extra-soft silk brush.
1830.2 Double-ended soft/hard nylon brush.
1830.3 Scouring brush, nylon outer and wire inner bristles.
1830.4 Soft nylon brush.

	l mm	L mm	⚖ g
1830.1		190	17
1830.2		210	15
1830.3	50	190	35
1830.4	100	230	30

"Electronics" set

400.JT1

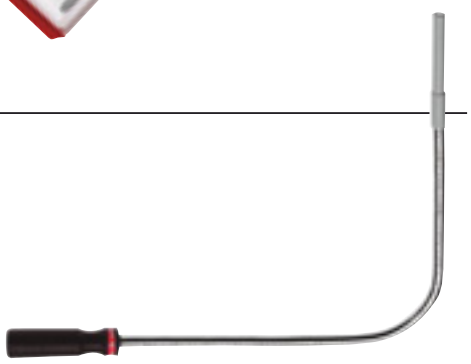
- Set of 7 electronics tools for on-site maintenance and laboratory work.
- Comprising :

- 403.MT Long bent-nose gripping pliers.
- 405.10RMT Axial cutting pliers.
- 416.PMT Slim-nose semi-flush cutting pliers.
- 429.MT 70 cutting pliers.
- 442.MT Straight-nose gripping pliers.
- 438.Straight-nose ring pliers.
- 140.AA Precision tweezers.

Supplied in a case 185 x 200 x 35 mm.
⚖ : 600 g.

Flexible magnetic retriever

827B



- ∅ max. : 12 mm.
- Max lifting capacity 850 g.
- Length 570 mm.

⚖ : 220 g.

Flexible magnetic retriever with lamp

828

- LR1 battery supplied.
- ∅ max. : 15 mm.
- Max lifting capacity 1.2 kg.
- Length : 590 mm.

⚖ : 220 g.

Flexible mechanical retriever

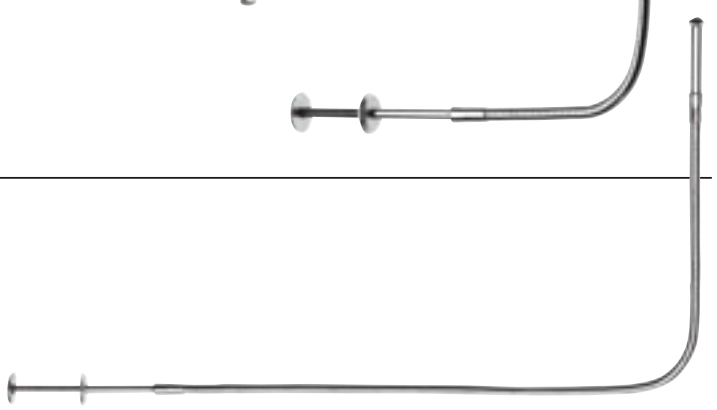
826.1

- ∅ Max jaw opening capacity 29 mm.
- Length 460 mm.

⚖ : 200 g.

Flexible mechanical retriever

826.2

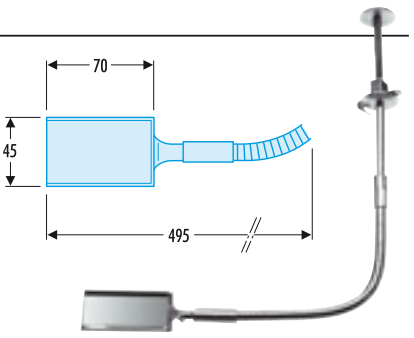


- ∅ Max jaw opening capacity 29 mm.
- Length 1,000 mm.

⚖ : 400 g.

Flexible swivel-mirror

829



- Mirror adjustment push-button on end of handle.

⚖ : 225 g.

Set of 2 tuning screwdrivers for slotted heads

HT.3

- Also available individually.
- Supplied in a wallet.
- Blade sizes :

- HT.2x2,4 : 2 and 2.4 mm.
- HT.3x4 : 3 and 4 mm.

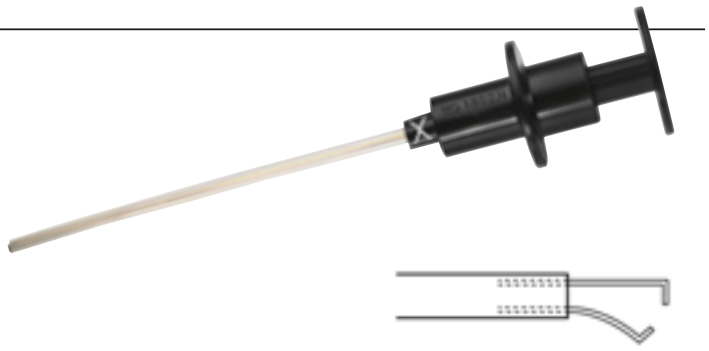
⚖ : 26 g.

Black wire-holder

1802A.N

- Insulated, with twin claws and flexible tube ∅ 3 mm.
- Length 130 mm.

⚖ : 10 g.

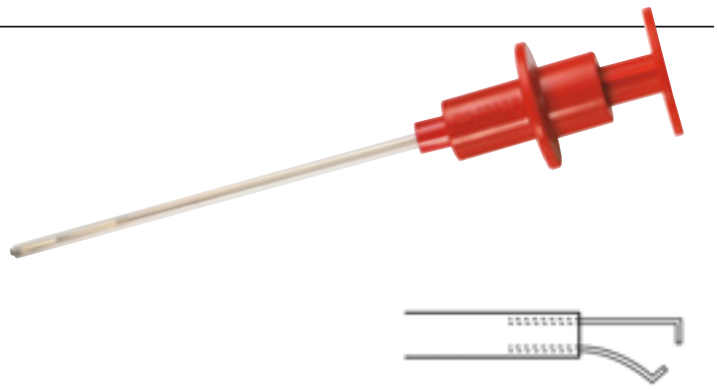


Red wire-holder

1802A.R

- Insulated, with twin claws and flexible tube ∅ 3 mm.
- Length 130 mm.

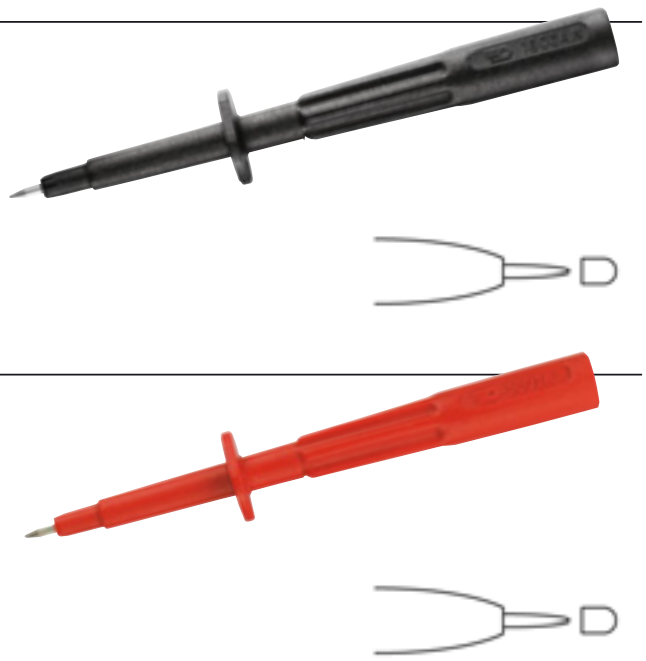
⚖ : 10 g.



Black probe

1803A.N

- Insulated, with brass tip and ∅4 mm socket for lead 1804B.
- Complete with protective cap.



Red probe

1803A.R

- Insulated, with brass tip and ∅4 mm socket for lead 1804B.
- Complete with protective cap.

Black connection lead

1804B.N

- Insulated, highly flexible, with retractable shroud.
- Two jacks ∅4 mm for probe and wire holder.
- Length 2.1 m.

⚖ : 50 g.

Red connection lead

1804B.R

- Insulated, highly flexible, with retractable shroud.
- Two jacks ∅4 mm for probe and wire holder.
- Length 2.1 m.

⚖ : 50 g.

Controlled-heat soldering stations

60 Watt soldering station

1001A

- Power supply 230V.
- Includes 60W soldering iron (with stand) operating on 24V supplied from station.
- Reduced heating time.
- High efficiency 60W/350C.
- Ultra-flexible heat-resistant lead.
- Temperature adjustment range 150 to 450 C.
- 285 x 215 x 110 mm.

⚖ : 2.8 kg.

Soldering iron only

1002.60

- Rating 60W at 350C.
- Heating time 60 seconds to 350 C.
- Silicone rubber lead 1.5m.
- Power supply 24V.
- Complete with tip 1002.P3.

⚖ : 60 g.

P. 711

60 Watt anti-static model

1002A.E

- Similar to model 1001A but with anti-static properties.
- Includes 60W soldering iron operating on 24V supplied from station.
- 285 x 215 x 110 mm.

⚖ : 2.8 kg.

Anti-static soldering iron only

1002.60E

- Similar to model 1001A.60 but with anti-static properties.

⚖ : 60 g.

P. 711

80 Watt model with digital display

1003A.E

- Power supply 230V.
- Includes 80W soldering iron (with stand) operating on 24V supplied from station.
- Positive temperature coefficient heating element reduces heating time.
- High efficiency 80W / 350C.
- Temperature adjustment range 50 to 450C.
- PVC lead 2m.
- 285 x 215 x 110 mm.

⚖ : 2.44 kg.

Anti-static soldering iron only

1003A.80E

- Bayonet fitting.
- Rating 80W at 350C.
- Heating time 50 seconds.
- Silicone rubber lead 1.5m.
- Power supply 24V.

⚖ : 50 g.

P. 711

Soldering iron stand

BV.21-10

- Ideal for storing a Facom 1024 or equivalent soldering iron immediately after use. Can be safely carried in a fitters case. Asbestos-free insulating section.
- 180 x Ø35 mm.

⚖ : 210 g.

Soldering irons for electronics

Electronics soldering iron 24 volts

1024.25

- Power supply 24V (plug not included).
- Heating time 60 seconds.
- Tip temperature 450C on 25W model.
- Complete with stand.

	Rating W	Length mm	Voltage V	⚖ g
1024.25	25	240	24	34

1230 Electronics soldering iron 230 volts

- Range of models from 15W to 40W.
- High-efficiency internally heated tip.
- Complete with stand.

	Rating W	Length mm	Voltage V	Peak temp	Heating time minutes	⚖ g
1230.15	15	240	230	350	1	28
1230.25	25	240	230	450	1	34
1230.30	30	240	230	420	2	80
1230.40	40	240	230	420	2	80

P. 711

Dual rating soldering iron (20/40W)

1116B.BW

- Power supply 230V.
- Double isolation ⧈.
- Ideal for electrical and electronics servicing.
- Normal 20W operation for soldering small components.
- Additional 40W power by pressing button.
- 2-core PVC lead (2 x 0.75²). Length 1.2 m.
- 10 A European plug.
- Complete with tip 1112.30P1.

⚖ : 145 g.

Tip : 1112.30P2

Instant heat soldering irons

"Instant heat" 25W/230V model

848.25

- Double isolation ⧈.
- Ready to solder in 5 seconds with trigger control.
- Tip cools immediately after the trigger is released.
- Useful tool in a service case, for occasional non-continuous soldering.
- Supplied with 2 standard tips, 1 straight and 1 angled.
- 2-core PVC lead (2 x 0.75²). Length 1.1 m.
- 2-pole plug. Length without lead 220 mm.

⚖ : 360 g.

Tips : 848.25P1 (angled) - 848.25P2 (straight)

100W/230V model

848B.100

- Double isolation ⧈.
- Ready to solder in 5 seconds with trigger control.
- Tip cools immediately after the trigger is released.
- Useful tool in a service case, for occasional non-continuous soldering.
- Efficient well-protected spotlight.
- Supplied with 3 stainless tips 40, 70 and 100W, tip-change wrench, reel of solder and flux in a polystyrene box.
- 2-core PVC lead (2 x 0.75²).Length 1.25 m.
- 2-pole plug.
- Length 270 mm.

⚖ : 1 kg.

Tip: 848.100P2

Heavy-duty soldering irons

947A Heavy-duty soldering irons - 230V

- Ratings from 50 to 400W.
- Supplied with angled tip.
- High-efficiency robust tool.
- Designed for optimum accessibility.
- Bright copper tip.
- Stainless heating tube.
- To EN 60335-2-45.

	Rating W	Voltage V	Length mm	Peak temp 10%	g
947.50	50	230	266	390	290
947.80	80	230	295	400	330
947A.100	100	230	300	420	440
947A.200	200	230	315	450	675
947A.300	300	230	320	470	960
947A.400	400	230	320	500	960

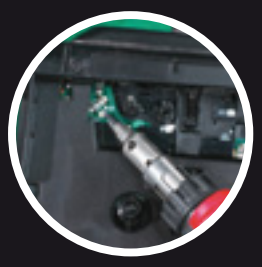
p. 711

Gas soldering iron

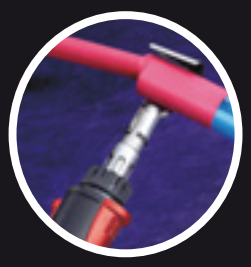
Gas soldering iron

ONE TOOL - FOUR FUNCTIONS

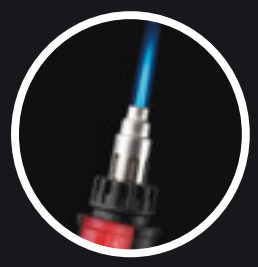
Soldering *(Electronics, etc.)*



Hot fitting *(Heat-shrinkable tubing, etc.))*



Blowtorch



Hot-cutting *(Plastic, rubber, etc.)*

- ***Rechargeable butane gas burner.***
- ***Integral ignition system*** *(Piezo-electric system).*
- ***Adjustable power setting.***

**** Safe :*** *The cap on the end of the nozzle keeps the gas control valve closed.*

New

Gas soldering iron

1075.G

- 75W equivalent power rating.
- Adjustable gas flow and power output. 45 minutes autonomy at maximum power.
- Max. temperature 1300C.
- Piezo-electric ignition.
- Heating time 40 sec.

Solder wire

Solder wire 40SN60PB

661618

- Reel of tin solder 40SN60PB.
- 40 % tin and 60 % lead.
- Multi-purpose solder wire (tinning, simple soldering for basic connections, etc.).
- For standard soldering.
- Good mechanical strength.
- Good melting temperature.
- Flux core.

	Ø mm	⚖ g
661618	1	500

Solder wire 60SN40PB

661626

- Reel of tin solder 60SN40PB.
- 60 % tin and 40 % lead.
- For technical applications (electric circuits).
- High tin content for improved electrical conductivity.
- Good melting temperature.
- Flux core.

	Ø mm	⚖ g
661626	1	250

Soldering accessories

839 Desoldering pumps

•Twin seal design: wiper seal ensures optimum efficiency of main seal.
•Set of 5 spare nozzles:
- 839.E1J5: Standard, white.
- 839.E2J5: Fine, black, anti-static.
- 839.E3J5: Fine, white, standard.
- 839.EJ5

	Ø Embouts mm	L mm	⚖ g
839A	3,2	190	75
839A.0	2,0	165	36
839A.1	2,0	200	78
839A.7	2,0	195	78

1130 Desoldering braid

• Outstanding absorbency. Protects fragile components from thermal shock.

	Width mm	Length m	⚖ g
1130.1	1,6	1,6	15
1130.2	2,7	1,66	18

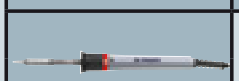
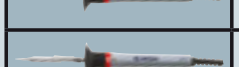
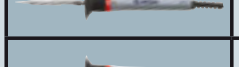
Accessory set

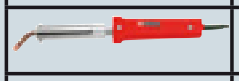
1195

• Plastic wallet set of 3 soldering accessories :
- double scraper.
- hook.
- brush.

⚖ : 35 g.

Soldering iron tip selection guide

	**1001A.60**	**1002.P1** (46 mm)	**1002.P3** (46 mm)
		1002.P2 (55 mm)	**1002.P4** (55 mm)
	1002A.60E	**1002.P1** (46 mm)	**1002.P3** (46 mm)
		1002.P2 (55 mm)	**1002.P4** (55 mm)
	1003A.80E	**1002.P1** (46 mm)	**1002.P3** (46 mm)
		1002.P2 (55 mm)	**1002.P4** (55 mm)
	1230.15	**1230.15P2**	**1230.15P3**
	1024.25	**1230.25P2**	**1230.25P3**
	**1230.25**	**1230.25P2**	**1230.25P3**
	**1230.30**	**1230.30P2**	**1230.30P3**
	1230.40	**1230.30P2**	**1230.30P3**

	947.50	**1130.1**
	947.80	**1130.1**
	**947A.100**	**1130.1**
	947.200P1	**1130.1**
	947.300P1	**1130.1**
	947.50	**1130.1**
	1075.G	**1075.G1**

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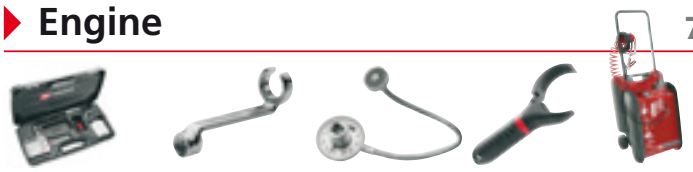

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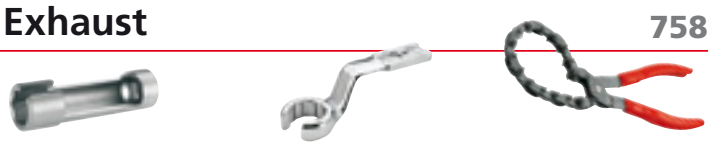

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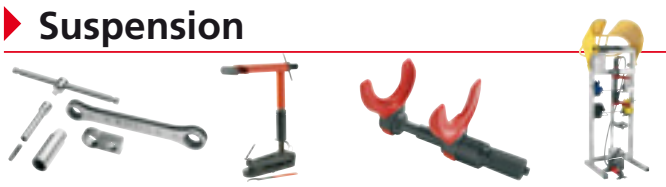

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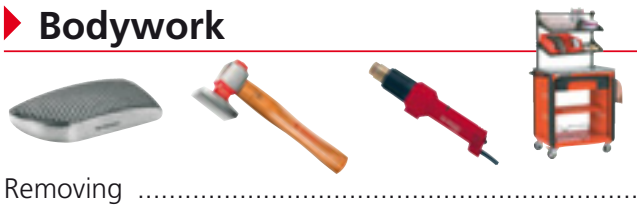

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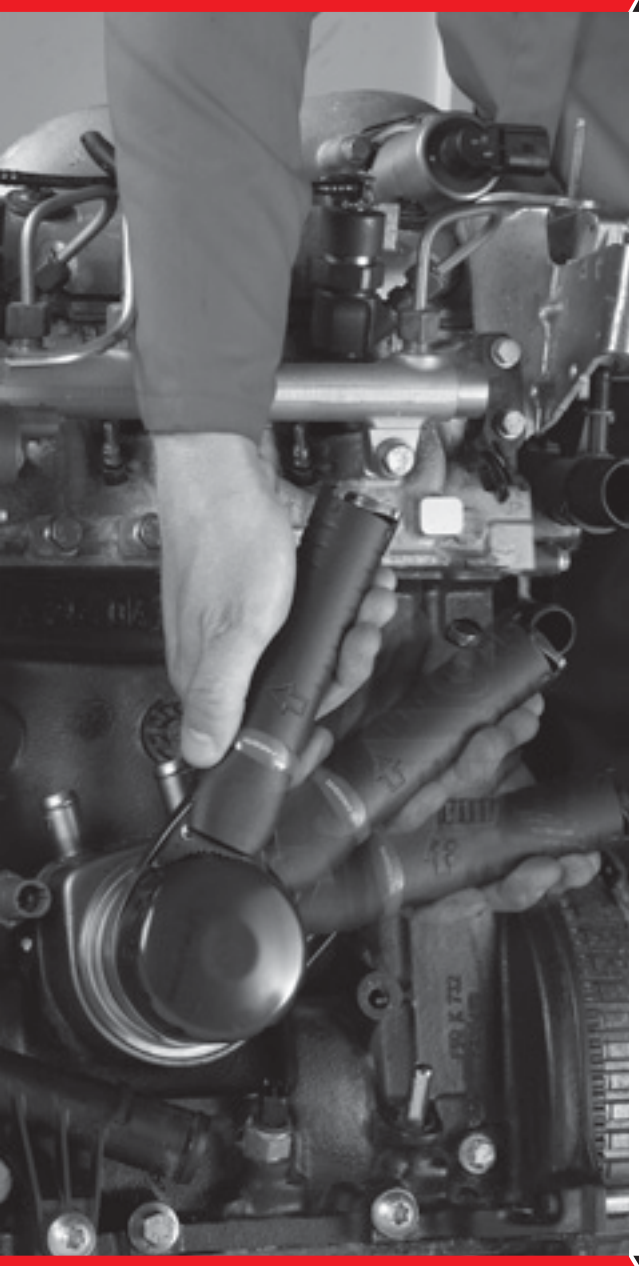
Tool sets

NEW

U.48 Automatic oil-filter wrench



Unique, automatic and ultra-fast

Advantages

- No adjustment
- Ratchet effect
- High torque

N 723

NEW

DF.17 Pneumatic brake piston tools

Essential for replacing brake pads.

Advantages

- Fast
- Easy to use
- Only 6 flanges

N 770

DF.21 Digital brake bleeder

NEW

For all maintenance and repair operations

Advantages

- Electronic pressure control
- Automatic stop
- 5 litre capacity

N 769

DLS.300 “Suspension” workstation

NEW

For easier, safer servicing

Advantages

- No compressor to carry
- Guaranteed safety
- All tools readily to hand

N 781

New LIFTING EQUIPMENT RANGE

FOR FACOM, YOUR SAFETY IS PARAMOUNT

- *Each product is tested by the French national testing laboratory (LNE).*

- *All inspections are recorded in a maintenance log.*

- *Permanent identification markings.*

- *Comprehensive safety instructions.*

A range of lifting equipment meeting the latest regulations.

Mobile lifting equipment

Trolley jacks

Lightweight servicing trolley jack

DL.19

- Bi-material aluminium/steel jack.
- Force 2 t.
- Rear carry handle.
- Minimum jacking clearance : 100 mm.
- Wide polyurethane cover on the bearing head.
- Quick-lift device brings jack : into contact in a single movement.
- Universal joint mechanism for accurate control.
- Automatic air release device for constant cylinder efficiency
- Silent-running polyurethane-tyred wheels
- Overload valve, CE
- Dimensions : 680 x 322 x 160 mm.

⚖ : 25 kg.

2T "gearbox & engine support" trolley jack

DL.20

- Extra flat 80 mm high.
- Effective length 600 mm
- Maximum lift 375 mm.
- 2T lifting capacity.
- Quick-lift device brings jack : into contact in a single movement.
- Jacking control at the end of the jack for easier and improved reach under the vehicle.
- Universal joint mechanism for accurate control.
- Automatic air release device for constant cylinder efficiency
- Silent-running polyurethane-tyred wheels
- Overload valve, CE
- Dimensions : 955 x 349 x 171 mm.

⚖ : 48 kg.

Plate for DL.20 jack

DL.20SUP

- This plate supports a block of high density foam that spreads the load over a large surface area and avoids damage to aluminium crankcases and under-bodies.
- For use on DL.20 and DL.32.
- This plate can also fit the DL.60 and DL.30 pit jacks.
- Dimensions : 300 x 150 x 60 mm.

⚖ : 4 kg.

3.2T multi-purpose car and LCV floor jack

DL.32

- Maximum lift 504 mm.
- Min. under-body clearance : 145 mm.
- Force 3.2 t.
- Quick-lift device brings jack : into contact in a single movement.
- Automatic air release device for constant cylinder efficiency
- Removable polyurethane cover on the bearing head.
- Silent-running polyurethane-tyred wheels
- Overload valve, CE
- Dimensions : 690 x 337 x 163 mm.

⚖ : 38 kg.

Bottle jacks

DL.T 5 Bottle jacks - 2 to 20 tonnes

- Supplied with a handle storage support system.
- 12 and 20 T jacks come with a carry handle.
- Screw lift action.
- Treated screw.
- Overload valve
- CE.

	Width mm	Length mm	Min height	Max height	Capacity kg	Length of extension screw	Hydraulic displacement	⚖ kg
DL.2T	95	95	183	398	2000	50 mm	115 mm	2,6
DL.6T	102	115	219	427	6000	75 mm	133 mm	5,5
DL.12T	134	134	240	473	12000	80 mm	153 mm	8,9
DL.20T	150	159	242	475	20000	80 mm	153 mm	13,5

Axle stands

Pair of 2.2T axle stands

DL.3

- Capacity 2.2 t.
- Axle stands with locking pin.
- 6 height settings from 295 to 492 mm
- Pin chained to the stand.
- Polyurethane contact surface protection
- CE.
- Tested in the French national testing laboratory (LNE)
- Folded dimensions : 295 x 210 x 210 mm.

⚖ : 5.5 kg the pair.

Pit jacks

Pit jacks

DL.60 :

- "Dead man" safety lowering device
- Safety overload valve.
- Polyurethane wheels.
- Reversible basket.
- Can support DL.20SUP (Optional).
- CE.

DL.30 :

- Initial adjustment three times faster than a traditional jack.
- Quick installation device.

	Capacity maxi	Min height	Max height	Load area	⚖ kg
DL.30	300 kg	1277 mm	2105 mm	575x543	31
DL.60	600 kg	1167 mm	1997 mm	560x560	39

1T folding workshop crane

DL.10

- 5-stage extending jib.
- Pivoting hydraulic unit controller (270°)
- Rotating hook (2 axes)
- Polyurethane-tyred wheels
- Extra flat (100 mm high) frame with a wide, stable base
- Folded dimensions 450 x 600 mm
- Additional castors for easily moving the folded crane.
- Overload valve, "Dead man" device, CE, Tested by the National testing laboratory (LNE)

⚖ : 90 kg.

Load balancer

DL.101

- Balances the crane to suit the shape of the component or engine to be hoisted.
- Complete with 4 chains.
- Crank-operated for easy adjustment.
- Maximum load 600 kg
- Distance between chains 330 mm.

Inspection creeper

When comfort equals efficiency

To reduce the risks of backache.

Backache is a frequent cause of absence from work. It is estimated that at least 60 to 70 % of the population will suffer backache during the course of their professional career.
Working on the middle or bottom of a vehicle requires suitable, good quality equipment to avoid the risk of injury.

Seat DTS.4

- Stability ensured by 4 wheels.
- Easily manoeuvrable.
- Supports the back.

Creeper DTS.2

- Adjustable headrest for prolonged horizontal working without pain.
- Six wheels for easy manoeuvrability.

Inspection creeper

DTS.1A

- Slim design (95 mm high) for maximum accessibility.
- Thick PVC padding.
- Comfortable and good resistance to automotive fluids.
- Strong steel frame, maximum load : 175 kg
- 6 wheels ∅ 60 mm.
- Dimensions : 945 x 430 x 95 mm.

⚖ : 7.67 kg.

Heavy-duty creeper

DTS.2

- High-strength 18 mm tubular frame.
- Thick PVC padding.
- Comfortable and good resistance to automotive fluids.
- 6 wheels Ø 60 mm.
- Maximum load : 175 kg
- Automatic rack allows instant headrest adjustment.
- Fitted with 2 metal tool shelves.
- Dimensions : 1,020 x 600 x 95 mm.

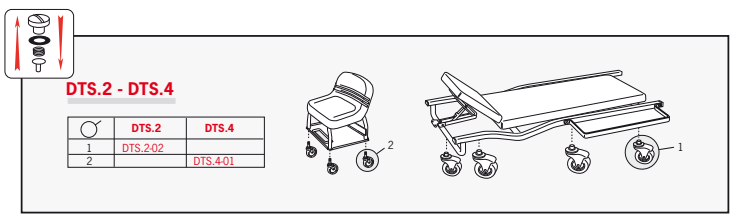
⚖ : 8.6 kg.

Mid-height work seat

DTS.4

- Ideal for working on wheels, brakes and bodywork.
- Thick heavy-duty PVC padding.
- Stability ensured by 4 wheels Ø 75 mm.
- Magnetic surface for fasteners and small components.
- Overall height 0.59 m.
- Seat height 0.42 m.
- L x l : 0.463 x 0.43 m.

⚖ : 10 kg.



Lighting

THE CORRECT LIGHT : AN ESSENTIAL CONSIDERATION.

Refer to the lighting section for details of our complete range (p.). 556

Protection

Wing cover

Non-magnetic wing cover with suction fasteners

CR.D2

- Non-scratch, quick-to-install suction fastener system.
- Each suction fastener can support 3 kg.
- Suitable for use with sheet metal, aluminium and composite materials.
- Adapts to all vehicle types.
- Cut-out provided for wheels.
- Easy maintenance.
- Impact and scratch resistant.
- High quality finish.
- Hook closers.

⚖ : 480 g.

Drain plug wrenches

Drain plug wrench

D.13A

• Chrome finish.
>> CITROËN, RENAULT, PEUGEOT.
• ☑ 8 x10 mm.
• Length 230 mm.
⚖ : 230 g.

Engine, gearbox and differential drain plug wrench

F.63C

>> ALFA ROMEO, FIAT, LANCIA.
• 12 mm hexagonal male.
⚖ : 280 g.

Engine drain plug wrench

P.27B

>> CITROËN, PEUGEOT.
• ☑ 10 mm male.
⚖ : 270 g.

Gearbox and differential drain plug wrench

T.33A

>> RENAULT.
• ☑ 10 mm female.
⚖ : 200 g.

Gearbox drain plug wrench

T.173A

>> RENAULT Espace.
• ☑ 10 mm male and female.
• Length 230 mm.
⚖ : 300 g.

Gearbox and differential drain plug wrench

T.273

>> RENAULT, VOLVO.
• ☑ 8 mm male and 10 mm female.
• Length 260 mm.
⚖ : 340 g.

Selection of 12 drain-plug bits

D.108J12

• Supplied on a rack.
• Comprising :
- 4 male bits ☐ 8-10-10.5 and 13.1 mm.
-1 female bit ▷ 10 mm.
-1 female bit ☐ 10 mm.
- 6 hexagon male bits 8-10-12-13-14 and 17 mm.
⚖ : 550 g.

3/8" drain plug bit with 10 mm female square

D.106-10

• Drive ☐ 3/8" (Junior).
• ☐ 10 mm.
⚖ : 40 g.

3/8" drain plug bit with male triangle

D.109-10

• Drive ☐ 3/8" (Junior).
• ▷ 10 mm.
⚖ : 40 g.

D.105 3/8" drain plug bits with male square

• Square drive : ☐ 3/8" (Junior).

	☐ mm	⚖ g
D.105-8	8	30
D.105-10	10	35
D.105-10,5	10,5	35
D.105-13,1	13,1	60

D.107 3/8" drain plug bits with 10 mm male hexagon.

• Square drive : ☐ 3/8" (Junior).

	∅ mm	⚖ g
D.107-8	8	30
D.107-10	10	35
D.107-12	12	35
D.107-13	13	40
D.107-14	14	40
D.107-17	17	50

Drain plug bit

D.120-16

• XZN pattern ∅ 16 mm.
• Drive ☐ 3/8" (Junior).
>> V.A.G. gearbox.
⚖ : 40 g.

Oil-filter wrenches

Fast oil-filter wrench

U.46ACL

• High-strength smooth stainless steel band wrench.
• Sprung hinged jaw grips filter and provides ratchet effect.
• Resilient glass fibre reinforced composite handle (resistant to hydrocarbons, impact, etc.).
• Multi-thread adjustment screw for fast pre-tightening.
• Dimensions : 290 x 45 x 45 mm.
• Ratchet effect and 5° increments.
• Handle length : 175 mm.
∅ 66 to 106 mm filters.
⚖ : 345 g.

	Description
U.46CL06	Stainless steel strap

Oil change and filter module

MOD.U46CLPB

• 13 drain plug bits ☐ 3/8" :
- D.105-8-10-10.5-13.1.
- D.106-10.
- D.107-8-10-12-13-14-17.
- D.109-10.
- D.120-16.
• Fast oil-filter wrench U.46ACL
• Coupler S.230 ☐ 1/2" ☐ 3/8".
⚖ 1.1 kg.

New

U.48 AUTOMATIC OIL FILTER WRENCH

UNIQUE, AUTOMATIC AND EFFICIENT

No adjustment.

- *Fits diameters 66 to 105 mm.*
- *Universal torquing force regardless of the size of the filter.*

Set.

Position and release.

Ratchet effect ensures quick tightening and loosening.

New

Automatic oil-filter wrench

U.48

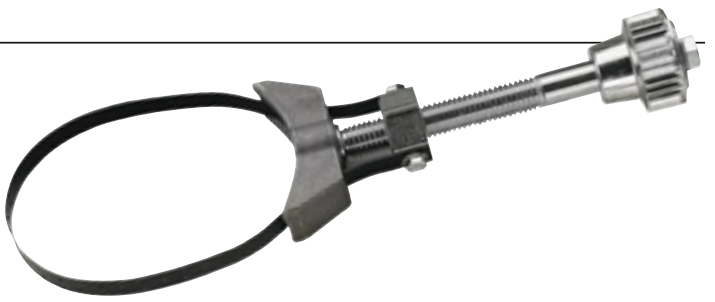
- Ratchet effect :
- fast ratchet action.
- allows fast working in even the most congested conditions.
- Optimised automatic tightening :
- saves time.
- strap torque control for optimum ratchet effect.
- Filter diameters : 66 to 105 mm.

⚖ : 285 g.

Adjustable oil-filter wrenches

- For cars and heavy goods vehicles..

	L max	Ø mm	⚖ g
U.46	260	65...105	310
U.46PL	300	105...145	350



Chain wrench

D.149

- Suitable for filters Ø 50 to 110 mm.
- Drive ☐ 1/2".

⚖ : 280 g.

Self-gripping oil-filter wrench

D.151A

- Suitable for filters ∅ 65 to 120 mm.
- Drive ☐ 3/8".

⚖ : 580 g.

Self-gripping HGV oil-filter wrench

D.151PL

- Drive : ☐ 1/2".
- Diameter : ∅ 95 to 165 mm.

⚖ : 1.345 kg.

Cap wrench

D.163

- For original VOLKSWAGEN, AUDI, SEAT filters, as well as interchangeable Mann® and KNECHT filters.
- ☐ 3/8".
- 19 mm six-point.

⚖ : 110 g.

Cap wrenches with flats

- Drive ☐ 3/8".

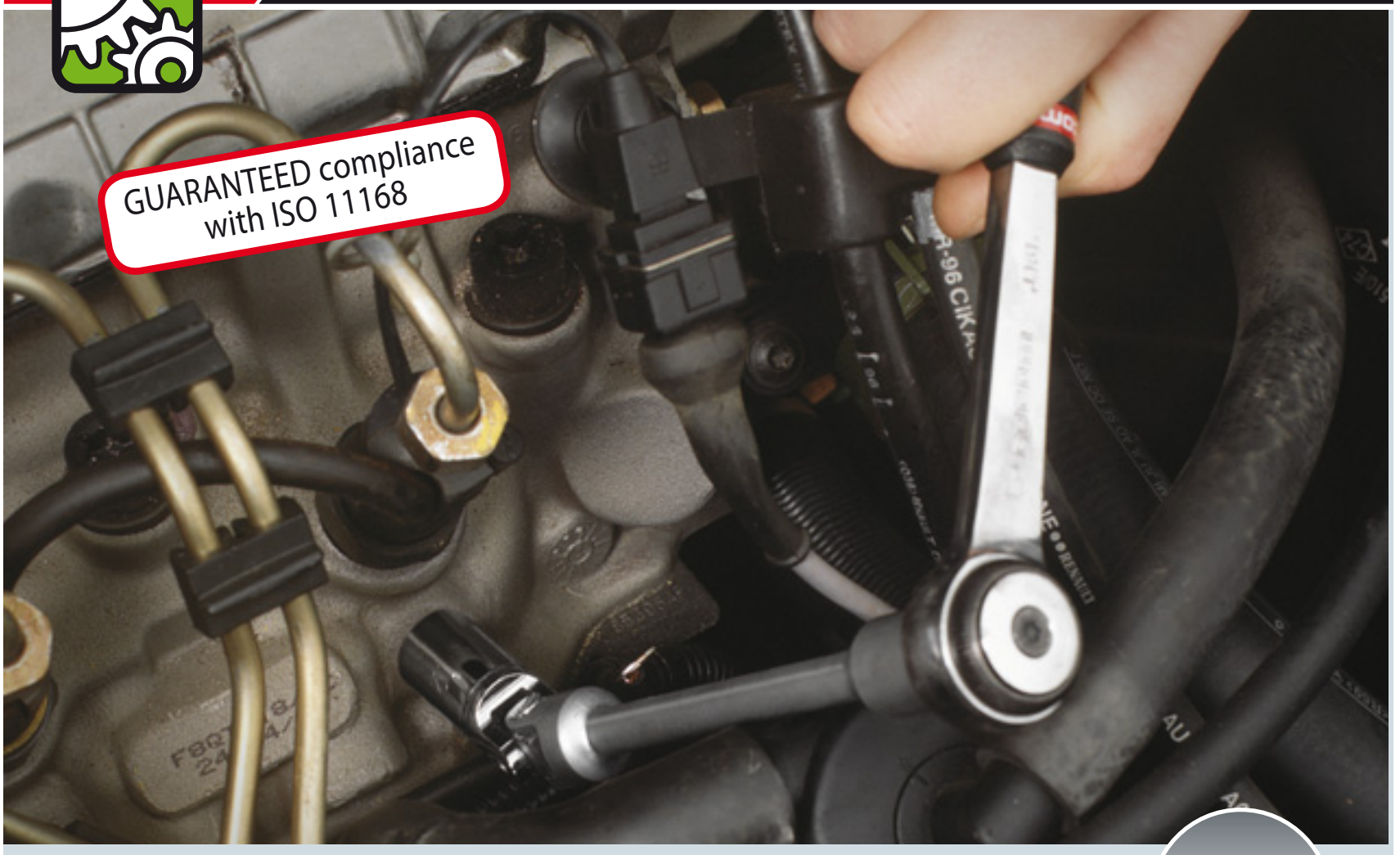
	Filter mm	⚖ g
D.139	14 point ∅ 65.0	135
D.140	14 point ∅ 74.0	160
D.141	15 point ∅ 92.0	205
D.159	14 point ∅ 66.5	140
D.160	15 point ∅ 74.0	160
D.161	15 point ∅ 79.0	175
D.162	15 point ∅ 89.0	200
D.164	8 point ∅ 74.0	150
D.165	10 point ∅ 92.0	190

Notched cap wrenches

- For oil and diesel Purflux filters.
- Square drive : ☐ 3/8".

	Notches	⌀ mm	⚖ g
D.154	6	66,0	200
D.155	6	76,0	225
D.156	9	86,0	268
D.157	9	96,0	295

Spark plug wrench selection guide



A COMPREHENSIVE RANGE

A range for each application.

3/8" socket.

- *Ideal for multivalve engines.*
- *Short- and long-reach range to suit the engine layout.*
- *The 3/8" range is perfectly suited to recent vehicles.*

1/2" socket.

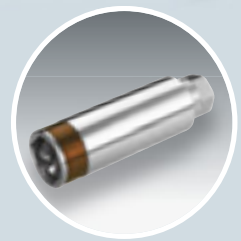
- *Suitable for most engines.*
- *Short- and long-reach range to suit the engine layout.*
- *The most widely used range.*

Hinged wrenches.

- *Ideal for situations where the engine layout prevents the use of a torque wrench.*

3/8" magnetic sockets.

- *For congested environments. Avoids the risk of cross-threading spark plugs.*



Safety first

- *Spark plug wrenches must allow sufficient play to enable the plug to engage in the cylinder head without risk of cross-threading. The spark plug's angle of freedom must also be limited to avoid damaging the insulation.*
- *Whenever possible, always engage the plug in the cylinder head by hand or with the help of the DM.20 spark plug fitter.*
- *All workshop spark plug sockets are fitted with a 3/8" or 1/2" square drive for tightening with a torque wrench.*

Petrol spark plug wrenches

3/8" square drive sockets

Sockets ⍁ 3/8" for 14 mm bihex spark plugs

- Slim sockets for 14 mm plugs.
- Spark plug retainer.
- For new Renault and Peugeot engines.
- 3/8" drive.

	L mm	⍁ g
B.J14BH1	90	90
B.J14BH2	250	245

Sockets ⍁ 3/8" for 16, 18 and 21 mm spark plugs

- Sockets with spark plug retainer.

	Ø mm	L mm	⍁ g
B.J16A1	16	90	130
B.J16A2	16	250	350
B.J18A1	18	90	190
B.J21A1	20,8	90	200
B.J21A2	20,8	250	650

Torque tightening of spark plugs

WHY USE TORQUE TIGHTENING ?

- *Cylinder heads are made of aluminium alloy.*
- *The cylinder heads of modern engines are subjected to increasingly high stresses.*
- *Reduction of thread diameters.*

The J.208-50 torque wrench is ideal for tightening spark plugs. (for 3/8" sockets)..

RECOMMENDED TORQUES

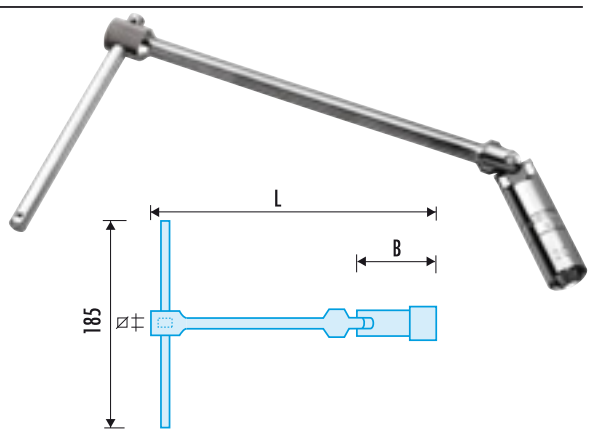
	Flat seating (with seals)			Conical seating	
Thread diameter (mm)	18	14	12	18	14
Cast-iron cylinder head (Nm)	35-45	25-35	15-25	20-30	15-25
Aluminium cylinder head (Nm)	35-40	25-30	15-20	20-30	10-20

- *These values are indicative only. Always refer to the manufacturers' values.*

Hinged wrenches

Hinged wrenches ⍁ 3/8" for 16, 18, 19 and 21 mm spark plugs

- Spark plug retainer.
- Square drive allows use with a torque handle, e.g. D.150.



	Ø mm	L mm	B mm	⍁ kg
B.J16R1A	16	385	90	0,175
B.J16R2A	16	465	170	0,825
B.J18R1A	18	385	90	0,760
B.J19R1A	19	385	90	0,760
B.J21R1A	20,8	385	90	0,785
B.J21R2A	20,8	465	170	1,00

1/2" square drive sockets

Sockets ⍁ 1/2" for 16, 18 and 21 mm spark plugs

• Sockets with spark plug retainer.

	∅ mm	L mm	⍙ g
B.S16A1	16	90	130
B.S16A2	16	250	350
B.S18A1	18	90	190
B.S21A1	20,8	90	200
B.S21A2	20,8	250	650

3/8" magnetic sockets

Magnetic spark-plug sockets

FOR AN EASIER REACH

Ideal for recessed spark plugs and whenever access is difficult. Allows secure handling without damaging the insulation. Especially useful for fitting spark plugs, since the retaining magnets leave sufficient freedom for the thread to engage properly. Minimizes the risk of cross-threading.

Magnetic sockets ⍁ 3/8" for 16, 18 and 21 mm spark plugs

• Spark plug retaining magnet.
• Polished chrome finish.
• ISO 11168.
• Square drive : ⍁ 3/8".
• Length : 84 mm.

	∅ mm	⬢ mm	a mm	⍁ "	⍙ g
B.J16M1	16	17	22	3/8	105
B.J18M1	18	19	25	3/8	150
B.J21M1	21	22	27,5	3/8	185

Box wrenches for spark plugs

Box wrenches for 16 and 21 mm spark plugs

▷ ISO 11168, NF ISO 11168.
• Models L and M feature spark plug retainers.
• Removable tee-bar gives working angle of 90°.
• Tee-bar storage within wrench body.

	∅ mm	⌀ mm	L mm	⍙ g
L.16AC	16	22	90	160
L.16AM	16	22	160	235
L.16AL	16	22	300	395
L.21C	20,8	26	90	180
L.21M	20,8	26	160	280
L.21L	20,8	27,5	300	460

Spark plug lead pliers

Spark plug lead pliers

DM.28

- For disconnecting spark plugs without harming leads.
- No damage to connectors.
- Dimensions : 198 x 55 x 30 mm.

⚖ : 210 g.

Spark plug lead pliers

DM.28-9

- For spark plug leads ∅ 9 mm.
- Soft non-slip grips.
- Spring-assisted opening.
- Long handles for accessing crowded assemblies.
- Snipe nose for maximum clearance.
- Serrated ends for maximum grip.
- Length : 280 mm.

⚖ : 310 g.

Feeler gauges

Metric feeler gauges

804

- Set of 19 sizes from 4/100 to 100/100 mm.
- Blade length : 90 mm.

	Nomber of blades	Form of blades	Width x length of blades in mm	Blade thickness in 1/100 mm	⚖ g
804	19		10 x 90	4-5-6-7-8-9-10-15-20-25-30	60

Non-magnetic metric feeler gauges

804.AM

- Blade thickness in 1/100 mm.
- 19 blades : 10 - 15 - 20 - 25 - 30 - 35 - 40 - 45 - 50 - 55 - 60 - 65 - 70 - 75 - 80 - 85 - 90 - 95 - 100.
- Brass blades 1000 mm long.
- Width : 10 mm.
- Tapered tips.

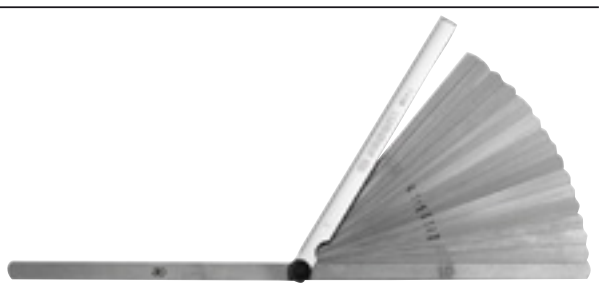
⚖ : 110 g.

Long metric feeler gauges - 150 mm long

804.L

- Rounded tips.

	Nomber of blades	Form of blades	Width x length of blades in mm	Blade thickness in 1/100 mm	⚖ g
804.L	19		10 x 150	4-5-6-7-8-9-10-15-20-25	60

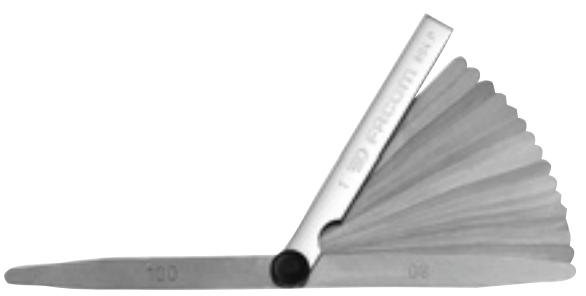


Metric feeler gauges - tapered tips

804.P

- Set of 19 sizes from 4/100 to 100/100 mm.
- Description : tapered tips.
- Blade length : 90 mm.

	Nomber of blades	Form of blades	Width x length of blades in mm	Blade thickness in 1/100 mm	⚖ g
804.P	19		10 x 90	4-5-6-7-8-9-10-15-20-25-30	60

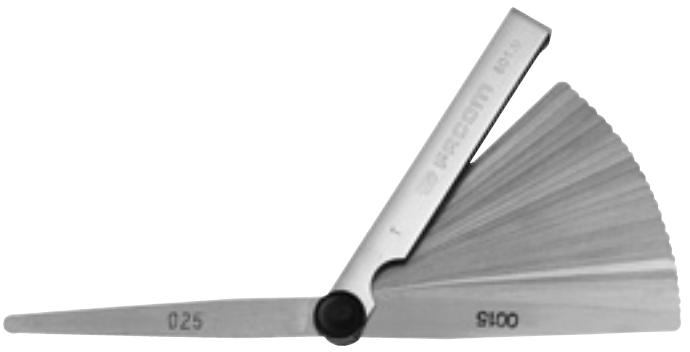


Inch feeler gauges

804.U

- Blade thickness in 1/10,000".
- 26 blades : 15 - 20 - 25 - 30 - 40 - 50 - 60 - 70 - 80 - 90 - 100 - 110 - 120 - 130 - 140 - 150 - 160 - 170 - 180 - 190 - 200 - 210 - 220 - 230 - 240 - 250.
- Tapered tips.
- Length : 3 1/2" (88.9 mm).
- Width : 15/32".

⚖ : 83 g.



Spark plug accessories

Flexible spark plug fitter

DM.20

- Helps engage a spark plug thread in any location.
- For all types of spark plug.
- Length : 316 mm.

⚖ : 50 g.

Screw holder

D.110

- For starting screws where access is difficult.
- Any head pattern.

Ø 6 to 11 mm.
Length : 305 mm.
⚖ : 55 g.

Spark plug files

Contact file

276

- Length 130 mm.
- Thickness 1 mm.

⚖ : 10 g.

Diamond file

277

- Length 130 mm.
- Thickness 0.7 mm.

⚖ : 10 g.

File card

270.A

- For cleaning electrodes and threads.
- Dimensions : 185 x 30 x 25 mm.

	Description
270.C	Spare card

Spark plug sets

GM spark plug module

MOD.BJ

- Module for 16 to 21 mm spark plugs and 8, 9, 10 and 12 mm heater plugs.
- Comprising :
- 1 B.J14BH1
- 1 BJ.14BH2
- 1 B.J16A1
- 1 B.J16A2
- 1 B.J21A1
- 1 DM.28-9
- 1 B.10R8L
- 1 B.10R9L
- 1 B.10R10A
- 1 B.10R12AL
- 1 J.161
- 1 D.110
- Tray : PL.161.

3/8" spark plug module

MOD.BJB

- Petrol spark plug servicing module.
- Comprising :
- 1 B.J14BH1
- 1 B.J14BH2
- 1 B.J16A1
- 1 B.J16A2
- 1 B.J18A1
- 1 B.J21A1
- 1 DM.28-9
- 1 DM.20
- Tray PL.669.

1/2" spark plug module

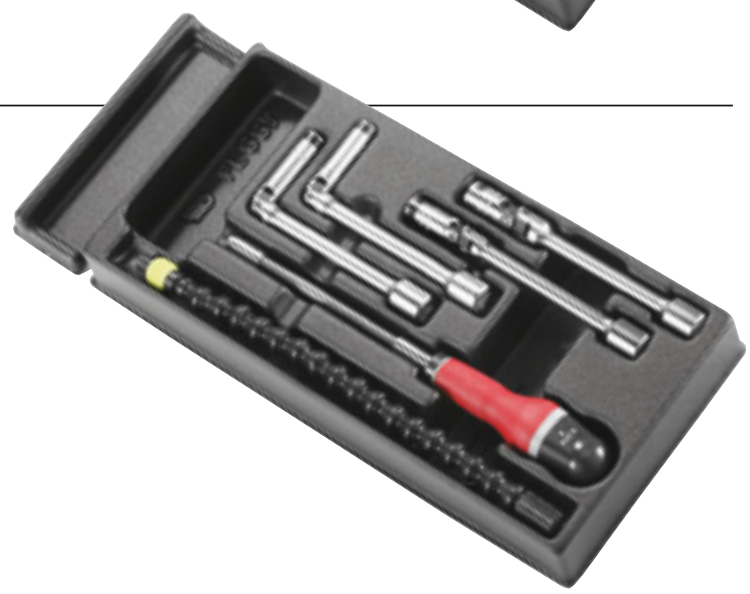
MOD.BSA

- Petrol spark plug servicing module.
- Comprising :
- 1 B.S16A1
- 1 B.S16A2
- 1 B.S18A1
- 1 B.S21A1
- 1 DM.28-9
- 1 DM.20
- Tray PL.668.

Glow plug module

MOD.BRA

- Diesel glow plug servicing module.
- Comprising :
- 1 D.110
- 1 B.10R8L
- 1 B.10R9L
- 1 B.10R10A
- 1 B.10R12AL
- 1 D.133A6
- Tray PL.667.



Diesel glow plug testing

Glow plug testing

Glow plug tester DX.10

SIMPLE AND COST-EFFECTIVE

Without removing.

- *For testing diesel engine glow plugs without removal.*
- *Compact probe for improved accessibility.*
- *Disconnect the glow plugs*
- *Connect the DX.10 to the battery.*
- *Touch the glow plug with the probe DX.10.*
- *Check the reading.*

Glow plug tester

DX.10

- Test unit with probe and diagnostic diodes.
- For fast and easy testing

of glow plugs on diesel vehicles (cars and light commercial vehicles) to trouble-shoot poor cold-starting.

- Indicates glow-plug condition : short-circuit, no continuity, insufficient power, etc.

>> All makes.

- Power supply : 12 V.

⚖ : 210 g.

Diesel glow plug wrenches

Hinged wrenches ☐ 3/8" for diesel engine glow plugs

- Plug retention system.
- Universal joint with friction springs for optimum socket angle.
- Polished chrome finish.
- ISO 11168.

☐ 3/8".

	∅ mm	⌀ mm	L mm	⚖ g
B.10R10A	10	14,5	161	110
B.10R12B	12	17	155	125
B.10R12AL	12	17	178	150
B.10R8L	8	12	175	120
B.10R9L	9	13	177	125

Sockets ☐ 3/8" for diesel engine glow plugs

- Spark plug retainer.
- Drive ☐ 3/8" and ∅ 17 mm (B.12-1) or 15 mm (B.10-1).

	∅ mm	⌀ mm	L mm	⚖ g
B.10-1	10	15	70	70
B.12-1	12	17	70	80

Engine testing

Digital timing light

X.730B

• Multifunction unit : tachometer (300-9,900 rpm) , timing (0.1° to 99.9°) and dwell angle readings (0.1° to 90°) , voltmeter (9 to 16V).
• Checks :
- dwell angle, engine speed, timing, centrifugal advance (intermediate values) , vacuum advance, vacuum retard, battery voltage.
• Supplied in a plastic case with cables and connectors.
• Dimensions : 310 x 285 x 110 mm.
• Power supply : 12 V.
⚖ : 1.7 kg.

Automotive multimeter 714

SIMPLIFIED ENGINE TESTING

Automatic readings

- *Lambda probe test : Sweep voltage indication.*
- *Continuity test.*
- *Automatic AC/DC selection.*
- *Testing of EGR valve and RCO idle speed valve controls, etc.*
- *Injecting time testing.*
- *Temperature measurements (with K thermo-couple probes).*

Automatic clip-on ammeter

The 714 is compatible with clip-on ammeter 714P-200.

- *Automatic reset : no adjustment needed.*
- *Measurements from 0.02 A to 200 A with the same ammeter.*
- *Alternative and direct current readings.*

For locating leakage currents.

The diagnostic companion.

The essential electronic fault diagnostic tool.

Testers and multimeters

Digital automotive multimeter set

714.1

Compact clip-on ammeter.
• Suitable for engine compartments and dashboards.
• Essential for locating leakage currents.
• Powered by the multimeter.
- AC currents from 0.02 A to 200 A peak
- DC currents from 0.02 A à 200 A peak, cable 2 m long.
• 714 multimeter.
• 714P.200 Clip-on ammeter 0.02 to 200 A.
• 1801.J2 Set of 2 cable probes.
• 711.19 Set of 2 test probes.
• Supplied with plastic case.

Multimeter

714

■ Save time.
• Auto-ranging.
• Automatic AC/DC voltage detection, no more adjustment needed.
■ Readings given directly in automotive units.
• Injection in milliseconds.
• Volts and millivolts for lambda probes.
• % opening for gate or EGR valves.
■ Leakage current detection.
• Clip-on ammeter from 20 mA.
• AC voltages from 150 mV to 600 V rms.
• DC voltages from 20 mV to 600 V.
• AC currents from 0.15 to 4,000 A peak.
• DC currents 0.02 A to 4,000A peak DC using current clamp.
• Resistance to 400 k.
• Temperatures from 55°C to +1,000°C using K probe.
• Measurements of AC voltage and current are rms values.
• Power supply : 2 x LR6 1.5 V batteries (provided).
• Supplied with 2 x 600 V CAT III measuring leads with 1 red and 1 black contact probe.
• Dimensions : 63 x 170 x 40 mm.
⚖ : 300 g.

Compact current clamp

714.P200

• AC currents from 0.02 A to 200 A.
• DC currents from 0.02 A à 200 A.
• Compact design for use in congested spaces.
• For use with multimeter 714.
• Powered by the multimeter.
• Dimensions : 138 x 49 x 28 mm.
• Cable : 2 m long.
⚖ : 160 g.

Multimeter, current clamp and thermometer

712

- Automatic detection AC/DC voltmeter.
- Ohmmeter, diode and continuity testing with audible beep.
- 400 A AC/DC current clamp, automatic detection.
- Thermometer : ambient temperature.
- Supplied in a pouch, leads and battery included.

⚖ : 660 g.

Automatic AC/DC detection

1. Stored readings, lead resistance compensation, automatic reset, display hold,
automatic selection of measuring range.
2. Min/Max key.
3. Backlit screen.

Clamp multimeter set

712-1

- Comprising :

- 1 clamp multimeter 712.
- 1 temperature probe (1 m long) DX.12-06 (measuring range -50°C to +285°C).
- 1 K probe adaptor 712.01

- Supplied in a cloth pouch.

⚖ : 560 g.

Complete tester range.

See page 652

Set of cable probes

1801.J2

- Cable probes for electrical readings.

Non-contact thermometer

DX.T1

• Laser-sighted infrared non contact thermometer.

	Length mm	Width mm	Height mm	⚖ g
DX.T1	93	48	26	70

Indicator lamps 700 and 705

Prevents damage to computers

Vehicles are fitted with multiplex wiring. Normal bulb indicating lamps can alter the parameter settings or damage the computers. LED testers 700 and 705 can be used to check polaritiesor the presence of voltage. Their very low current consumption prevents any unwanted damage to the vehicle.

Continuity tester

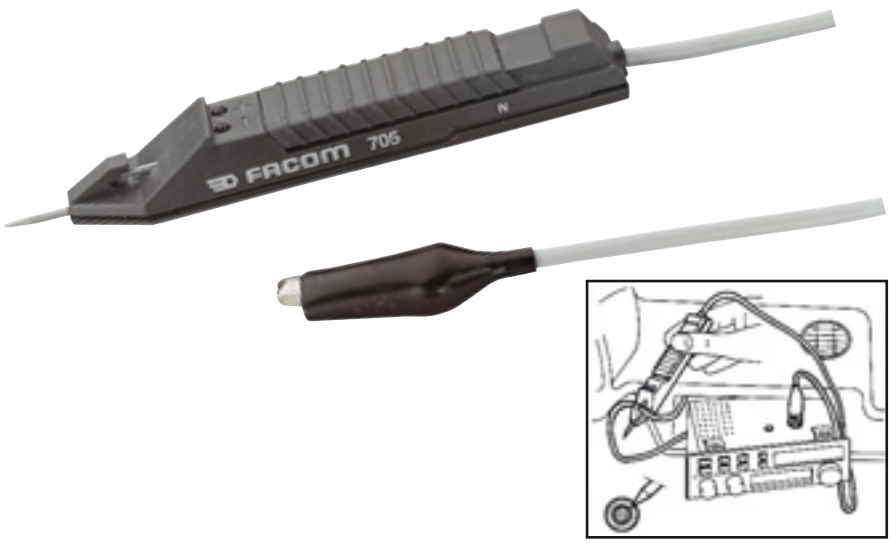
700

• Checks earth and lead continuity when inspecting and testing electrical circuits.
• Features two indicator lights.
• Cable length : 3 m.
⚖ : 105 g.

Automotive voltage tester

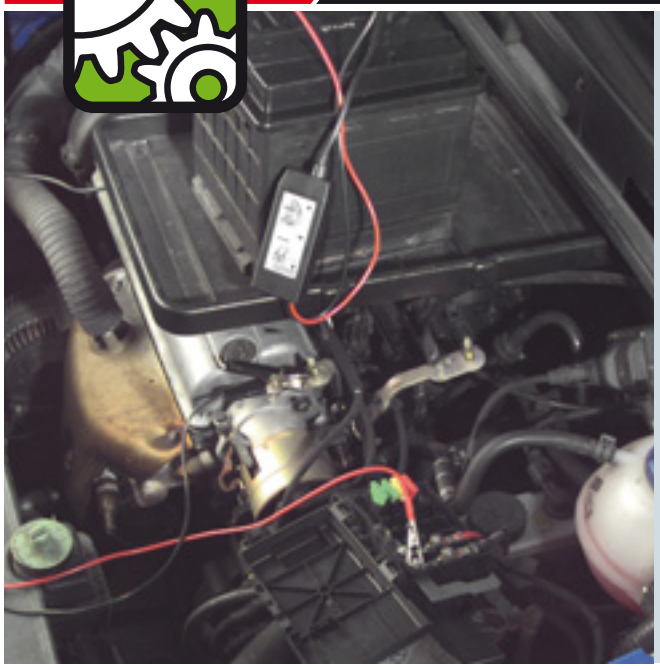
705

• Filter diameter : 3 to 48 V.
• LED + or - polarity indicator.
• Complete with prodding probe, cable probe for testing insulated leads, and alligator clip.
• Dimensions : 18 x 21 x 135 mm.
⚖ : 55 g.



Battery tools

DX.11 - Memory protection



STORED DATA SAVER

Modern vehicles carry an increasing amount of electronics. Disconnecting a battery can cause the loss of stored : car radio settings and other stored parameters. Reprogramming is a long, complicated operation that can sometimes only be performed by the manufacturer's own agents.

Time-saving and safe.

The DX.11 connects in less than a minute :

- *No more need to reprogram car radios and computers.*
- *Current limiter ensures safety during operations with a risk of short-circuiting.*

Memory protector

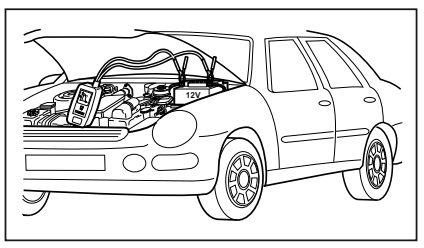
DX.11

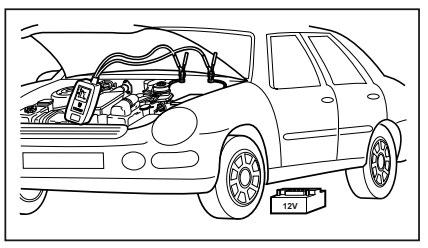
• Saves configuration and stored data of vehicle accessories when battery is changed or power is temporarily interrupted.
• Diodes for checking correct battery connection.
>> All makes
• Power supplied : by 12 or 24V external battery.
⚖ : 180 g.

12V surge limiter

DX.8-12

• Cable length : 300 mm.
• W x L x H : 100 x 20 x 45.





Lug disconnector

U.14A

• Spring loaded, self-gripping 2-leg puller.
For disconnecting battery terminals.

	C mini - maxi mm	T kN	Encombrement mm	P maxi mm	T Tonnes	⚖ kg
U.14A	10 - 35	5	70 x 112 x 35	40	0,5	0,31

Reamer

781

• For cleaning contact surfaces on battery lugs and terminals.
∅ 26 x 92 x 130 mm.
⚖ : 230 g.

Battery filler

785

• Acid, oil and solvent resistant plastic.
• Length 260 mm.
∅ 70 mm (120 cm³).
⚖ : 85 g.

Acid hydrometer

784B

• For checking specific gravity of battery fluid.
∅ 42 to 350 mm.
⚖ : 100 g.

Refractometer

780A

• 2 measuring scales :
- Coolant : 0 to -50°C (5° graduations).
- Battery fluid density : 1,10 to 1.40 kg/l.
• Simple screw recalibration using distilled water.
• Supplied in a case with a sampling pipette and screwdriver.
• Dimensions : 70 x 235 x 700 mm.
⚖ : 550 g.

Fuses and connectors

Auto electricians kit

449.Z1A

• For routine automotive electrical servicing and repair tasks : Installation of accessories, car radios, trailer socket connections, fuse replacement etc.
• Contains :
- The 12 most commonly used terminals for automotive applications (210 terminals)
- 20 x 5 dia. ring terminals for 0.5 to 1.5 mm².
- 20 x 4 dia. spade terminals for 0.5 to 1.5 mm².
- 20 x 5 dia. ring terminals for 1.5 to 2.5 mm².
- 15 x 6 dia. ring terminals for 1.5 to 2.5 mm².
- 20 x 5 dia. spade terminals for 1.5 to 2.5 mm².
- 20 x 6.3 mm dia. quick disconnects for 1.5 to 2.5 mm².
- 15 x 6.3 mm dia. combined quick disconnects for 1.5 to 2.5 mm².
- 20 x 6.3 mm dia. tab terminals for 1.5 to 2.5 mm².
- 15 x 8 dia. ring terminals for 3 to 6 mm².
- 15 cable couplers for 0.5 to 1.5 mm².
- 15 cable couplers for 1.5 to 2.5 mm².
- 15 cable couplers for 3 to 6 mm².
- 1 set of 20 fuses with extractor (5A to 30 A).
- 1 fuse holder (for 5A to 30 A fuses).
- 5 quick splice terminals for 0.5 to 1.5 mm².
- 5 quick splice terminals for 1.5 to 3.5 mm².
- 1 power fuse remover DX.9 (for 40A to 80A fuses) : for easy replacement or removal of power fuses (e.g. : for removing the fuse when working on airbags)
- 1 pair of multi-purpose pliers 449I : For cutting wire from 0.5 to 6 mm²crimping colour-coded insulated terminals, cutting threaded rods from M 2.6 to M5, crimping non-insulated terminals, stripping.
• Supplied in a case.
• Dimensions : case 350 x 300 x 60 mm.
⚖ : 1.35 kg.

Maintenance crimping pliers for insulated terminals

985894

• Dual crimp on insulated terminals, to applicable standards, with grip around both conductor and insulation.
• Stainless steel die.
• Latch remains accessible.
• Good grip in the hand.
• Soft feel.
• To IEC 60352.2 / IEC 60760.
• Reverse crimping : terminal placed in the fixed part for greater efficiency and precision.

	Capacity mm²	L mm	⚖ g
985894	0,4 → 6	230	490

Power fuse remover

DX.9

• For easy removal of power fuses without damage.
• Captive knob.
• Two ends : horizontal and vertical slot fuses.
• Dimensions 58 x 30 x 18 mm.
⚖ : 30 g.

Crimping tools.

See page 629

Car radio

20-piece car radio removal tool kit

DX.25

• 20 special tools for the main makes of car radio (Alpine, Blaupunckt, Becker, Grundig, JVC, Pioneer, VDO).
• Multi-make : BMW, Fiat, Ford, Mercedes, Opel, PSA, Renault, VAG,
• Supplied in a plastic pouch showing applications.

Heater plug tester DX.10

See page 731

Engine

Pressure testing

Petrol engine compression tester

911 and 912 - Compression diagnostics.

THE COMPRESSION TESTER - THE ESSENTIAL DIAGNOSTIC TOOL

Fast and safe.

Whatever the age of the vehicle, the engine cannot run at maximum efficiency if the compression is wrongly adjusted.

Compression testing is a pre-requisite for good engine diagnosis.

The Facom compression tester range is regularly updated with the latest dummy glow plugs and injectors.

A 911D or 912B compression tester is a long-term investment.

Graphic records.

Graphical printout of readings on card :

- *Easy reading and interpretation.*
- *Traceability.*

911D

912B

Petrol engine compression tester

912B

- Test cards for up to 12 cylinders.
- Integral starter-motor control.
- Self-locking hose.
- Working range 3 to 18 bar.
- Comprising :

912A.SB Compression tester with hose 530 mm.
912A.FC Pack of 100 test cards.
911B.016 Starter-motor control lead 1.85 m.
912A.014 Self-locking fitting for spark plugs M14.
912A.013 Angle adaptor for easier access.
912A.012 Spare rubber seal (M14 spark plugs).
912A.10 Extension for deep recesses.
BV.912B Storage case with blister tray.

- Dimensions : 430 x 340 x 85 mm.

⚖ : 2 kg.

	Description
912A.FC	Set of 100 test cards
912A.012	Rubber seal

Set of 100 test cards

912A.FC

Rubber seal

912A.012

Adaptors for M10x100 motorcycle spark plugs

912A.019

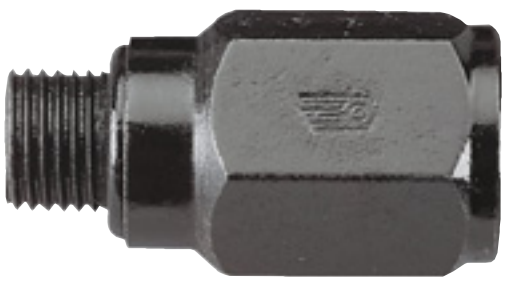
- For use with compression tester 912B, 20 x 40 mm hexagon.

	Sparking plug	⚖ g
912A.019	M10X100	90

Adaptors for M10x125 motorcycle spark plugs

912A.020

- For use with compression tester 912B, 20 x 40 mm hexagon.



	Sparking plug	⚖ g
912A.020	M12X125	90

Diesel compression testers

Compression tester

911D

- Test cards for up to 12 cylinders.
- Starter-motor control integral with handle.
- Suitable for all types of diesel engine, using dummy injectors and dummy heater plugs.
- Working range 5 to 60 bar.
- Comprising :

- 911B.00 Compression tester with hose 360 mm.
- 911B.FC Pack of 100 test cards
- 911B.016 Starter-motor control lead 1.85 m
- 911B.017 Angle adaptor
- BV.911B Storage case with blister tray.

- Complete with dummy injectors :

- 911B.020A, 911B.021, 911B.022, 911B.023, 911B.024, 911B.025, 911B.026, 911B.027.

- And dummy glow plugs.

- 911B.040, 911B.042, 911B.043, 911B.046.

- Dimensions : 430 x 340 x 85 mm.

⚖ : 5 kg.

	Description
911B.AMM	Motometer® adaptor®
911B.049	High-pressure dummy heater plug
911B.048	High-pressure dummy heater plug
911B.047	Dummy heater plug
911B.045	Universal adaptor
911B.044	Universal adaptor
911B.041	Dummy heater plug
911B.036	High-pressure dummy injector
911B.035	High-pressure dummy injector
911B.034	Dummy injector
911B.032	Dummy injector
911B.031	Dummy injector
911B.030	Dummy injector

	Description
911B.029	Dummy injector
911B.028	Dummy injector
911B.FC	Bag of test cards
911B.031-02	Teflon seal

Motometer® adaptor®

911B.AMM

- Allows Motometer® dummy injectors to be used with a Facom 911D compression tester.

⚖ : 35 g.

High-pressure dummy glow plugs (Mercedes C220/A170 CDI)

911B.049

- For use with compression tester 911D.

	Model	⚖ g
911B.049	MERCEDES C22; CDI	155

High-pressure dummy glow plug (Peugeot HDI)

911B.048

- For use with compression tester 911D.

	Model	⚖ g
911B.048	PEUGEOT HDI	65

Dummy glow plug

911B.047

- For use with compression tester 911D.

>> PEUGEOT 106 with TUD 5 type engine.

⚖ : 60 g.

Universal adaptor

911B.045

- Allows injectors to be used as dummies.
- Fitting ∅ 14 mm.

Universal adaptor

911B.044

- Allows injectors to be used as dummies.
- Fitting ∅ 12 mm.

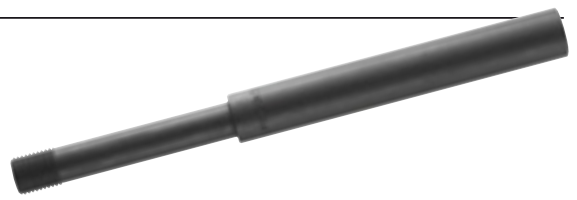
Dummy glow plug

911B.041

- Dimensions : 430 x 340 x 85 mm.
- ⚖ 5 kg.

High-pressure dummy injector (Mercedes C220/A170 CDI)

911B.036

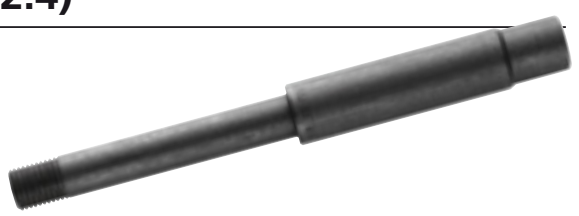


- For use with compression tester 911D.

	Modèle	⚖ g
911B.036	CDI Mercedes C220/A170	235

High-pressure dummy injector (JTD Fiat; Alfa; Lancia 1.9/2.4)

911B.035

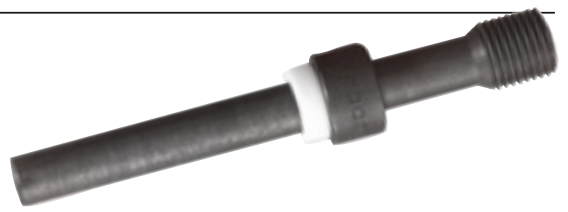


- For use with compression tester 911D.

	Modèle	⚖ g
911B.035	TD Fiat; Alfa; Lancia 1,9/2,4	230

Dummy injector

911B.034



For use with diesel compression tester 911D.

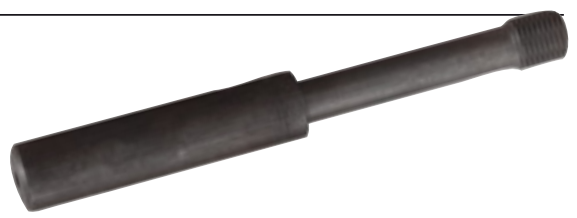
■ 911B.034.

>> ALFA ROMEO 164; >> CHRYSLER Voyager SE D 93; >> FORD Scorpio 2.5TD.

⚖ : 310 g.

Dummy injector

911B.032



For use with diesel compression tester 911D.

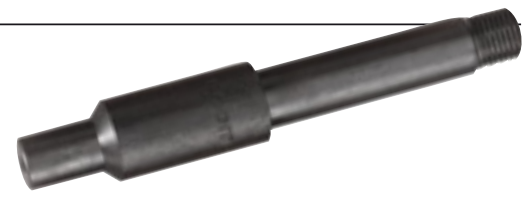
■ 911B.032.

>> AUDI 80 1.9TDI; >> SEAT Inca 1.9D; >> VOLKSWAGEN Golf 1.9TDI - Sharan 1.9TDI.

⚖ : 180 g.

Dummy injector

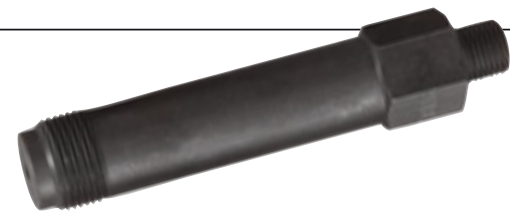
911B.031



For use with diesel compression tester 911D.
■ 911B.031.
>> FORD Transit 2.5D.
⚖ : 69 g.

Dummy injector

911B.030



For use with diesel compression tester 911D.
■ 911B.030.
>> MERCEDES 2.5C and E.
⚖ : 285 g.

Dummy injector

911B.029

For use with diesel compression tester 911D.
■ 911B.029.
>> MITSUBISHI Galant GLX D - Pajero GLX tbo - Space Wagon 2.0 GLX;
>> TOYOTA Carina 2.0D - Corolla 2.0D.
⚖ : 92 g.

Dummy injector

911B.028

For use with diesel compression tester 911D.
■ 911B.028.
>>ROVER 220 SDI - 420 SDI - 620 SDI.
⚖ : 160 g.

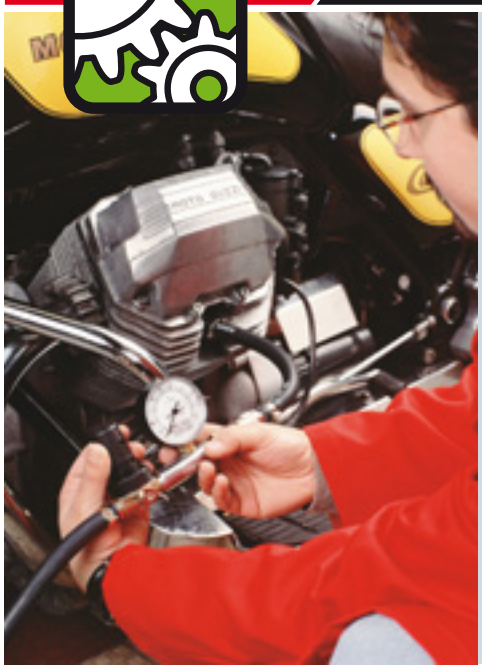
Bag of test cards

911B.FC

Rubber seal

911B.031-02

910A - Leak tester.



DIAGNOSTICS WITHOUT DISMANTLING.

Defective mechanical components are the second most common cause of engine breakdown and malfunction.

Mechanical breakdowns are more common than those caused by electronic faults.

Fault location.

- *Connect the 910A in the place of the spark plug and pressurise the cylinder. The pressure gauge will indicate the scale of the leak. The leak must then be located to determine the cause of the fault.*

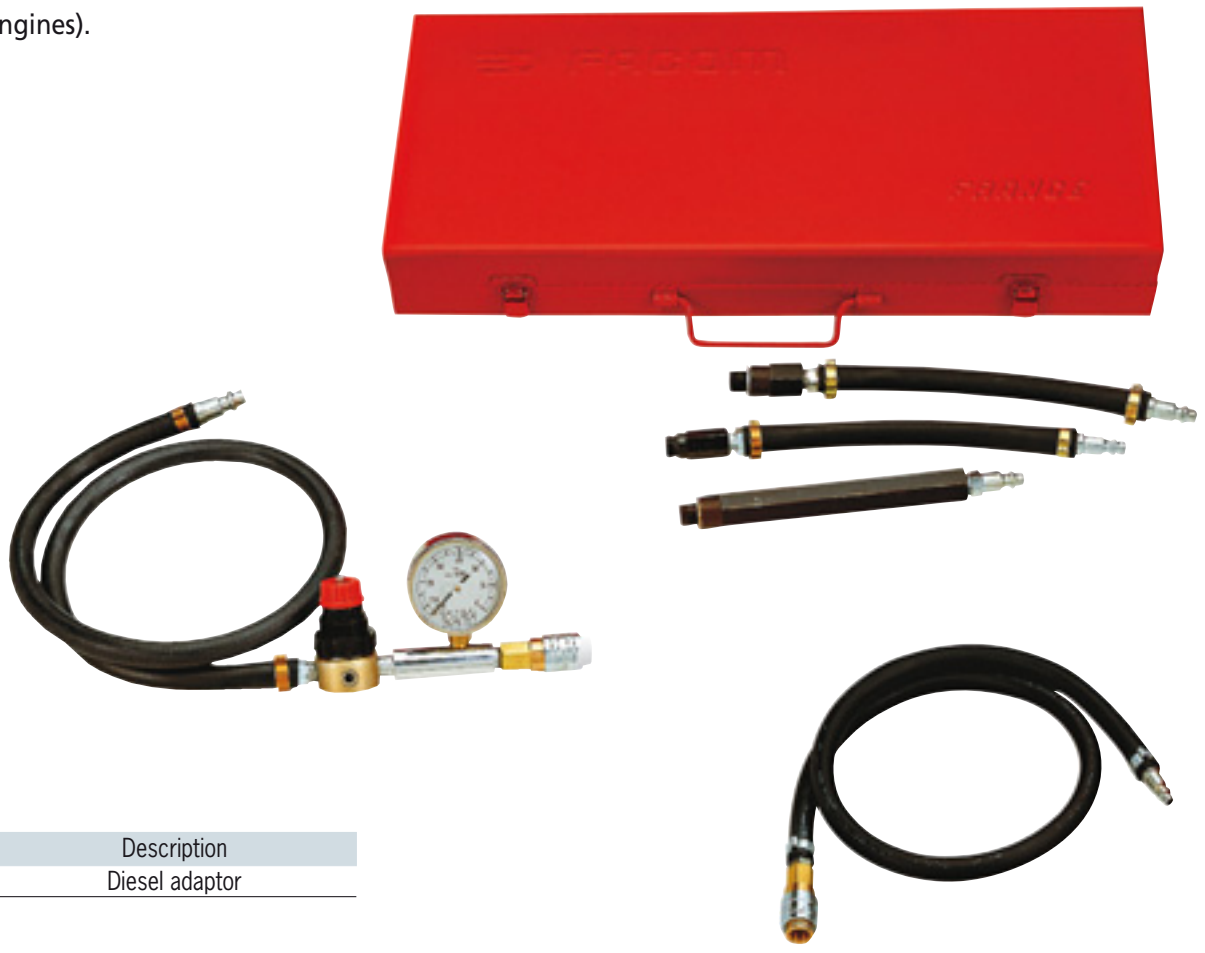
  - Air escaping from dip-stick recess = piston ring problem.
  - Air escaping from the exhaust = valve problem.
  - Air escaping from the inlet = valve problem.
  - Air escaping from the expansion tank = cylinder-head gasket problem.

Engine leak testing

910A

- Pinpoints compression loss (petrol engines).
- Air supply : 6 - 7 bars.
- Dimensions : 482 x 240 x 53 mm.

⚖ : 4 kg.



	Description
910.06	Diesel adaptor

Fuel pressure

DM.35 Fuel pressure and flow tester.

ANALYSES THE CAUSES OF BREAKDOWNS AND MALFUNCTIONS.

FUEL SUPPLY DIAGNOSTIC EQUIPMENT

- *Modern petrol and diesel engines do not tolerate fuel supply problems.*
- *A faulty fuel supply causes contamination that can lead to the destruction of catalytic converters and serious malfunction.*

Checking fuel pressure and flow.

- *Checking the pressure is not enough, the flow must also be tested : a blocked fuel filter will give a correct pressure reading at idling speed, but the low fuel supply rate will cause serious malfunction under load.*

Petrol and diesel.

- *Ideal for all single or multi-point petrol injection systems, and all low-pressure fuel supply circuits of modern diesel engines.*

Fuel pressure tester

DM.35-200PF

- Tests multi-point fuel injectors.
- Range : 0 to 10 bars.
- Measures :

- petrol pump pressure.
- system pressure.
- residual pressure.

- For checking pressure regulator.
- Supplied complete with :

- 26 adaptors and couplers to accommodate most models.
- 1 set of couplers DM.35MJ1.
- 1 set of PSA/FIAT/OPEL adaptors DM.35-39.
- 1 connecting tee with quarter-turn valve.
- 5 hoses, 2 couplers, 1 packet of seals.

- For checking : fuel pump, fuel supply system, pressure regulator, non-return valve and injectors.
- Dimensions : 360 x 340 x 125 mm.
- Partitioned plastic case..

⚖ : 3.7 kg.

	Description
DM.35A10	Single-point injection kit
DM.35MJ1	Set of adaptors for DM.35
DM.35-39	Set of PSA/FIAT/OPEL adaptors
DM.35-38	Peugeot and Ford adaptors
DM.35-37-01	Renault adaptor
DM.35-37-02	Renault adaptor

Single-point injection kit

DM.35A10

- Range 0 to 2 bars.
- Higher resolution increases accuracy when testing single-point injection systems.
- Supplied complete with adaptor
- Storage compartment provided in case DM.35.

⚖ : 400 g.

Set of adaptors for DM.35

DM.35MJ1

- Comprising :

DM.35-37-01 and DM.35-37-02
>> RENAULT Megane, Clio, Kangoo, Twingo.
DM.35-38
>> All types, PEUGEOT 206, 1.1 litre and 1.4 litre, FORD Ka.

- Supplied in plastic box BP.100.
- Dimensions : 200 x 110 x 40 mm.

Set of PSA/FIAT adaptors

DM.35-39

- Set of 2 male and female adaptors.
- Specifications :

- Citroen : Saxo (NFZ and HFX engines) - Xsara (NFU and KFX engines) - Picasso (FZB engine) - Berlingo (LFX engine).
- Peugeot : 106 - 206 - 306 - 406 - same engines.
- Fiat group : Alfa 156/166 - Punto - Brava - Bravo - Marea.
- Can also be used on certain OPEL engines.

⚖ : 90 g.

Inlet and turbo pressure

Vacuum/pressure pump

DA.16

- Vacuum/pressure selector valve.
- For leak testing :
- Vacuum advance in conjunction with stroboscope X.715 or X.730A.
- Fuel supply systems
- Brake power assistance and any other vacuum controlled system
- turbo wastegate control valves.
- 800 mm hose, 6 fittings.
- Vacuum : 0 to -1 bar.
- Pressure : 0 to 1.5 bar.
- Dimensions : 260 x 170 x 60 mm.

⚖ : 300 g.

Oil pressure

Oil pressure tester

914

- Quick coupler.
- Range : 0 to 8 bar.
- Supplied in a case complete with adaptors, seals and fittings.
- Dimensions : 360 x 340 x 125 mm.

⚖ : 2.13 kg.

Clips - hoses - gaskets

Fuel circuit tools

New

Gauge collar remover

DM.J

- For removing and refitting gauge collar rings.

	Ø mm	Height mm	⚖ g
DM.J	140	85	950

New

Automatic clip pliers

DM.CC

- For opening and closing automatic clips.
- Multi-directional grip for working in a vertical or horizontal position (left or right).

	Length mm	Width mm	⚖ g
DM.CC	180	50	160

Fuel-line pliers

• Fuel-line fitting separator.
■ DM.15-8.
>> RENAULT, Twingo/Laguna/Scenic.
■ DM.15-10.
>> RENAULT, Laguna Diesel/all Espace models/Megane.
• Dimensions : 115 x 65 x 20 mm.

	Ø mm	L mm	⚖ g
DM.15-8	8	110	70
DM.15-10	10	115	67

Hose remover

DM.44 Hose remover.

SPEEDY HOSE REMOVAL

Faster and safer.

Finally, a tool specifically designed for removing hoses. Quickly loosens and removes hoses with a simple backward and forward motion.

Protects hoses.

Hoses can now be removed without needing screwdrivers and multi-grip pliers. No more torn hoses, no more damage to plastic couplings.

Hose remover

DM.44

• Comprising a body and an adjustable jaw fitting hoses Ø 24 to 53 mm.
• Compact tool, can be operated one-handed.
• Pins on the body grip the hose, allowing it to be loosened and removed.
• Multi-thread adjustment screw for fast pre-tightening.
• Handle size : Ø 29 mm.
• Height : Height 167 mm (jaw fully open), 142 mm (jaw closed).
• Width : 65 mm (fully open).
⚖ : 345 g.

Large diameter hose remover

DM.44PL

• Tool consisting of a body and a moving jaw that adjusts to fit hose diameters between 48 and 115 mm.
• Compact and manoeuvrable.
• Pins on the body grip the hose, allowing it to be loosened and removed.
• Multi-thread screw allows fast pre-tightening.
• Handle size : 36 mm. Grip : 90 mm.
• Height : max opening 255 mm
• Removable handle.
⚖ : 769 g.

Tools for self-tightening spring clips

DM.MUB - Spring clamp pliers.

FOR AN EASIER REACH

Time-saving.

- *No need to remove components obstructing the hose clamp.*
- *Compact head for confined spaces.*

Comfortable.

- *Non-slip grips.*
- *Ratchet lock system for reduced effort.*

Capacity 18 to 54 mm.

Spring clamp fitting and removal tool

DM.MUB

- Fits self-tightening spring clamps between 18 and 54 mm diameter.
- Can be operated with one hand
- Non-slip bi-material handle for a better grip.
- Ractchet system for reduced effort.
- Total length : 780 mm.
- Length of sleeve : 560 mm.

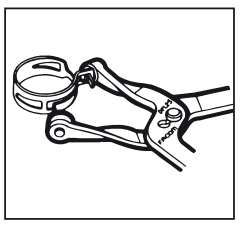
⚖ : 500 g.

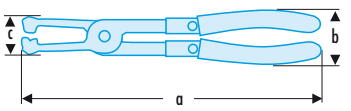
	Description
DM.MUB-RN1	Sleeve repair kit, cable + jaws (7373280)

Self-tightening clamp pliers

- For hose clamps on cooling, heating, fuel or screen-washer systems.

- DM.25 : Slip-joint model
- DM.27 : Long-reach model with lock and pivoting jaws.
- DM.29 : Standard-reach model with lock and pivoting jaws.





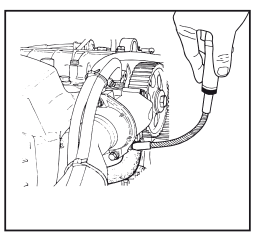
	a x b x c mm	Ø mm	⚖ g
DM.25	275 x 55 x 20	12..60	400
DM.27	275 x 60 x 25	15..56	395
DM.29	215 x 60 x 25	15..56	340

Hose clamp drivers

Flexible screwdriver (6-point socket)

- For loosening and tightening hose clamps.
- Length : 275 mm.

⚖ : 165 g.



	Ø mm
D.133A4	4
D.133A5	5
D.133A6	6
D.133A7	7
D.133A8	8
D.133A10	10

Cooling circuit

Coolant testing

921 - Cooling system tester.

EASY LEAK DETECTION

Requires only one person.

- *Self-contained appliance : powered from the vehicle's battery. Connects to the expansion tank using the appropriate plug*
- *The 921 pressurises the circuit, you simply have to find the leak.*

Complete range of plugs.

- *Supplied with a set of 12 plugs covering the majority of the European vehicle fleet.*

The power cable and hose are sufficiently long to be able to raise the vehicle on a vehicle lift with the appliance on the ground.

New

Cooling system tester

921

- Pressurised leak testing of the cooling system (hoses, clamps, pump and radiator).
- Automatically regulated electric compressor.
- 1.2 bar pressure limiter.
- 0 to 2.5 bar pressure gauge.
- Portable, stand-alone appliance (12 V).
- 4 m long spiral hose
- Power cord : 4 m long.
- Supplied with a set of 12 plugs.
- 920A compatible plugs.
- Wheeled appliance.
- CE.

⚖ : 15.84 kg.

935 - Cooling system filler.

ESSENTIAL FOR THE LATEST ENGINES

Safe.

- *Some manufacturers are doing away with cooling system bleed screws and imposing vacuum filling systems instead.*
- *The 935 depressurises the cooling system, ensuring perfect bleeding.*

Cost effective.

- *Fills and bleeds the air from cooling systems quickly and without wasting new coolant.*

Cooling system speed filler

935

- Vacuum cooling system filling tool.

⚖ : 1.96 kg.

Anti-freeze hydrometer

778A

- Measures antifreeze levels in engine coolant.
- Two scales for cold or warm engines.
- Dimensions : 42 x 350 mm.

⚖ : 90 g.

Refractometer

780A

- 2 measuring scales :

- Coolant : 0 to -50°C (5° graduations).
- Battery fluid density : 1,10 to 1.40 kg/l.

- Simple screw recalibration using distilled water.
- Supplied in a case with a sampling pipette and screwdriver.
- Dimensions : 70 x 235 x 700 mm.

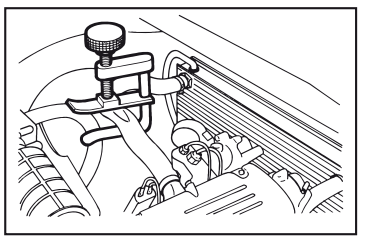
⚖ : 550 g.

Hose clamps

Screw-type hose clamps

- Cooling systems
- Fuel lines
- Air hoses.

	Ø mm	L mm	⚖ g
DM.90	27	65	190
DM.91	45	85	240



Hose clamps

- Hoses are clamped shut instantly without damage.

	Ø mm	L mm	⚖ g
DM.33	8...15	160	170
DM.34	15...28	180	190
DM.34GM	25...55	205	210

Injectors

Sockets for diesel engine piloted injectors ☐ 1/2"

- Long-reach 12-point open sockets ☐ 1/2".

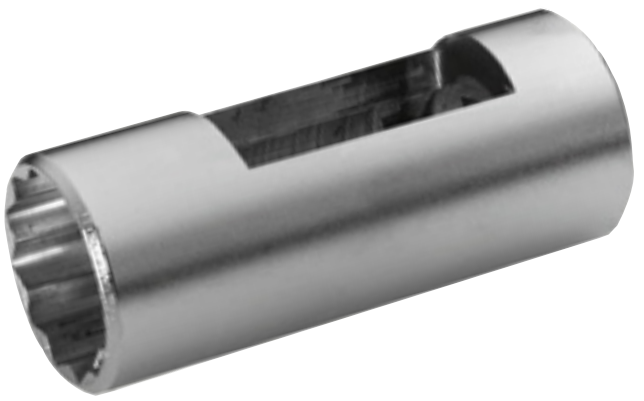
■ D.27A

>> All makes.

■ D.132B

>> CITROËN Saxo 1.5/Boxer TD.
>> FORD Maverick.
>> MAZDA Familia 1.7.
>> MERCEDES 250C > 94 >.
>> MITSUBISHI Pajero 2.
>> NISSAN Serena 2.3.
>> PEUGEOT 106/605/2.5.
>> SEAT Terra 1.7.
>> VOLKSWAGEN Polo D.

	⬡ mm	Ø mm	L mm	⚖ g
D.27A	27	36	87	265
D.132B	22	29	98	160



Socket for injector castle nuts ☐ 1/2"

D.142

- For Bosch-type injectors on FIAT Croma 2.5 TD, can also be used on light vehicle, van and HGV diesel engines.

Ø 28.5 x 135 mm.

⚖ : 320 g.

Diesel injection line wrench ⍁ 3/8"

DM.19A

• 17 mm 12-point.
• Square drive : ⍁3/8".
>> RENAULT Laguna and certain diesel engines.
∅ 27 x 95 mm.
⚖ : 75 g.

Diesel injection line wrench ⍁ 3/8"

DM.38

>> MERCEDES light vehicles, vans and certain diesel engines.
• 14 mm 12-point.
• ⍁ 3/8".
• Length 95 mm.
⚖ : 70 g.

Injector test pump

916.600

• For checking injector leak-back, injection pressure and fuel
spray pattern.
• Dial gauge 0-600 bar.
• Reservoir complete with filter.
• For use with fluid ref. 916.LE (to NF ISO 4113)
and vapour extractor ref. D.144.
• Dimensions : 220 x 100 x 410 mm.
⚖ : 4.4 kg.

	Description
916.22	ADAPTOR
916.24	ADAPTOR
916.LE	Test fluid

Test fluid

916.LE

• For checking injectors using pump 916.
• To ISO 4113.
• Supplied in a 2 litre can.

Vapour extractor

D.144

• Collects fumes and fluid when checking or adjusting injectors.
• Air inlet hose fitted with shut-off valve.
• Inlet pressure : 6 bar.
• Dimensions : 400 x 380 x 420 mm.
⚖ : 5.2 kg.

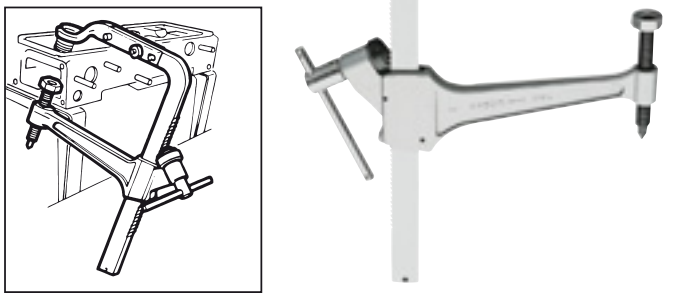
Cylinder head - valves

Valve lifter

U.13L

- For removing valve springs.
- Complete with jaws U.13B.
- Dimensions : 265 x 365 x 20 mm.

⚖ : 1.14 kg.



⊃	Description
U.13A	Straight bottom-edge jaws
U.13C	Straight top-edge jaws

Collet clamp and cup

- To fit U.13L, the collet replacing the screw, with the cup inserted between the 2 jaws..
- U.13DB for 16-valve engines.

⊃	Ø mm	⚖ g
U.13DB	30	335
U.13DC	33	340

Slide-hammer valve lifter

U.43LA

- For removing valve springs.
- The slide hammer is used to free split collets.
- Dimensions : 200 x 390 x 36 mm.

Ø 34 mm.

⚖ : 1.385 kg.

Collet clamp

U.43LA16A

- For 16-valve engines.
- Fits U.43LA.
- Length 54 mm.

Ø 29 mm.

⚖ : 55 g.

Cylinder-head rest

U.43

- Adjustable distance between feet.
- Designed for easy use of valve lifters U.13L and U.43LA.
- Dimensions : 215 x 500 x 165 mm.

⚖ : 1.8 kg.

Special pliers

DM.7

- For removing valve guide seals.
- Nickel finish, burnished jaws.
- Length 245 mm.

⚖ : 350 g.

Valve stem seal pliers

DM.10A

- For removing valve guide seals.
- Dimensions : 235 x 80 x 15 mm.

⚖ : 135 g.

Valve stem seal puller

DM.41

- Slide-hammer puller.
- Removes seals without scoring or damaging bore in cylinder-head.
- Min. hole : ∅ 21 mm. Height : 70 mm.
- Slide-hammer weight : 1.2 kg.
- Length : 310 mm.

∅ 60 mm.

⚖ : 1.84 kg.

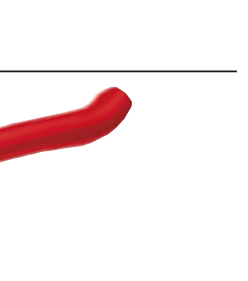
	Description
DM.41-10	Expansion pullers

Air-operated valve grinder

U.54A

- Working pressure : 8 bar.
- Air consumption : 0.08 m³/min.
- Supplied with 2 suction pads : ∅ 22 and 33 mm.
- Dimensions : 280 x 90 x 70 mm.

⚖ : 800 g.



	Description
U.54AV1	Suction pad ∅ 22 mm
U.54AV2	Suction pad ∅ 33 mm
U.54AV3	Suction pad ∅ 30 mm
U.54AV4	Suction pad ∅ 45 mm

Valve grinder

D.51

- Suction pads ∅ 19 mm and 22 mm.
- Dimensions : 235 x 22 mm.

⚖ : 30 g.

Scraper

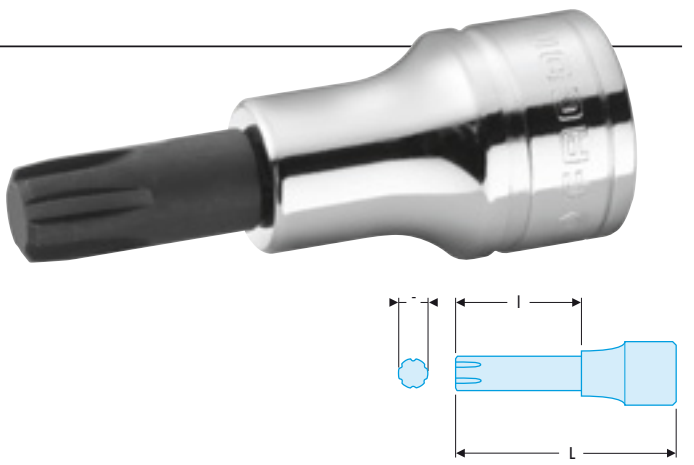
D.1

- For deburring and scraping off gasket debris.
- Triple-edge blade, width : 25 mm.
- Dimensions : 200 x 25 x 20 mm.

⚖ : 105 g.

D.34B Long-reach 6-spline bit

- For removing cylinder head screws.
- Square drive : ☐ : 1/2".



	Ø mm	l mm	L mm	⚖ g
D.34B7	7	15	60	70
D.34B7L	7	63	100	120
D.34B9L	9	63	100	130
D.34B10	10	15	60	75
D.34B12L	12	63	100	140
D.34B14L	14	63	100	150
D.34B16L	16	63	100	160

12-piece set of 1/2" square drive sockets with long-reach monobloc TORX®, XZN and hex. bits

MOD.SHP

- Ideal for light vehicle cylinder heads.
- Tray PL.336.
- Dimensions : 420 x 180 x 55 mm.

				⚖ kg
MOD.SHP	40 - 45 - 55 - 70	5 - 6 - 7 - 8	6 - 8 - 10 - 12	1,740

Set of TORX® sockets

MOD.TX1

- Set of Torx ® wrenches.

⚖ : 995 g.

7-piece set of 6-spline bits ☐ 1/2"

D.34J7PF

- Supplied on a rack.
- Comprising : D.34B7, 34B7L, 34B9L, 34B10, 34B12L, 34B14L, 34B16L.

⚖ : 900 g.

5-piece set of drive bits for spline socket head (XZN) ☐ 1/2"

SV.J5PF

- Supplied on a rack.
- Diameters 6, 8, 10, 12, 14.
- Bits 63 mm - total 100 mm.

⚖ : 670 g.

20-piece set of short-reach bits

SE.1APB

- Comprising :

- 1 bit holder ☐ 1/2", ∅ 5/16".
- 5 hexagonal bits 4 to 10 mm.
- 8 Torx® bits no. 20 to 55.
- 4 XZN bits 6 to 12 mm.
- 3 Pozidriv® bits no. 2 to 4.

⚖ : 475 g.

Angular torque gauge

Angular torque gauge

SPECIALLY DESIGNED FOR CYLINDER-HEADS

Compliance with manufacturers' recommendations.

- *It is essential to apply the manufacturers' recommended cylinder head torques.*
- *Tightening to the correct torque with a suitable torque wrench.*
- *Apply the correct torquing sequence.*
- *Apply the correct turn angle.*

Facom offers a complete range of specially designed tools

Maximum visibility.

Choice of tapered drum with reverse laser marking.
Set the drum to the value recommended by the manufacturer and stop at zero. (DMP.360, DM.360L, D.360L).

Easier to attach.

Wide range of drum-locking accessories.
Clamp, magnet, 3 limit stops (24, 45 and 65 mm).

Facom offers a complete range of tools to fit all vehicles

Angular torque gauge ☑ 1/2"

DMP.360L

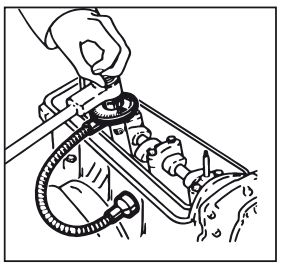
- Complete kit comprising 3 limit stops (24, 45, 65 and mm long), a flexible arm with a clamp and a magnet
- Dimensions : 375 x 180 x 145 mm.

⚖ : 550 g.

Angular torque gauge

- 2° graduations.
- Drive ☑ drive.
- Fixed point by flexible arm with magnet.

	☑ "	Ø mm	L mm	⚖ g
DM.360	1/2	63	410	350
DM.370	3/4	73	430	550



Side-graduated angular torque gauge ☑ 1/2"

D.360L

- Tapered side-graduated drum for maximum ease of reading.
- Double index (red line) for presetting. To tighten, simply align the two markers
- 2° resolution.
- Supplied with 24, 45 and 65 mm limit stops.

⚖ : 414 g.

Side-graduated angular torque gauge with flexible arm and magnet ☐ 1/2"

DM.360L

• Supplied with a flexible arm and a magnet.
⚖ : 500 g.

Pistons - piston rings

Piston ring compressors

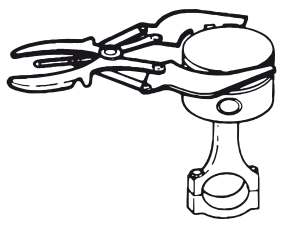
• For easy insertion of piston into cylinder bore and even compression over full ring length.
• Ratchet mechanism.
• Complete with key ☐ 6 mm.

	Ø mm	L mm	⚖ g
750.TB	55...110	80	260
750.KB	100...160	80	300

Piston ring pliers

751.T

• Even expansion over full ring length.
• Quick and easy to use.

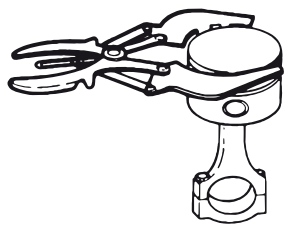


	Ø mm	L mm	⚖ g
751.T	45...100	210	280

Piston ring pliers

751.K

• Even expansion over full ring length.
• Quick and easy to use.



	Ø mm	L mm	⚖ g
751.K	90...150	255	330

Removal

Set of exhaust rubber stretchers

DE.35A

- Helps fit mounting rubbers after exhaust system replacement.
- Can also be used to remove hub caps.
- Set comprises two tools :

- DE.3A Short hook.
- DE.5A Long hook.

- Length : 250 mm.

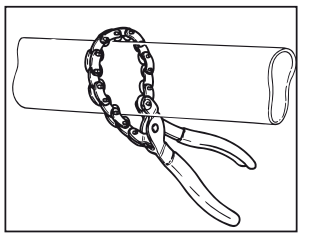
⚖ : 230 g.

Chain pipe cutter

DE.7

- For exhaust systems requiring partial replacement only.
- Filter diameter : Ø 38 to 95 mm.
- Dimensions : 315 x 60 mm.

⚖ : 560 g.



⊃	Description
DE.7-1	Spare chain

PSA exhaust collar pliers

DE.C

- Bi-material grip, for opening exhaust collars.

⊃	Opening maxi mm	Length mm
DE.C	60	300

Lambda probe

Lambda probe tools

- For use on lambda sensors, featuring a slot for the connecting lead.

■ D.145A Short-reach socket :
- 22 mm 6-point, drive : ☐ 1/2".

■ D.146A Long-reach socket :
- 22 mm 6-point, drive : ☐ 1/2".

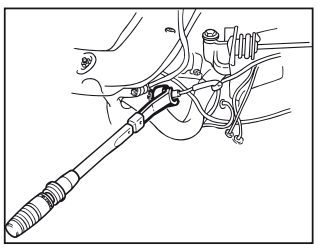
■ D.147 Straight open-ring wrench :
- 22 mm 12-point, end fitting : 7 x 20 mm.

■ D.148 Offset open-ring wrench :
- 22 mm 12-point, end fitting : 7 x 20 mm.

■ D.167 Wrench :
- 22 mm 12-point, end fitting : 7 x 20 mm.

■ D.168 Wrench :
- 22 mm 12-point, end fitting : 7 x 20 mm.

N.B. Lambda probes must be torqued to manufacturers specified values.

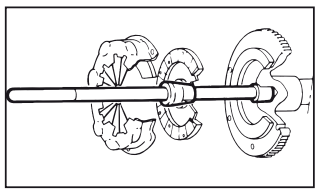


⊃	a x b x c mm	Ø mm	⚖ g
D.145A	-	33 x 85	200
D.146A	-	33 x 85	230
D.147	190 x 40 x 18	-	180
D.148	121 x 40 x 40	-	140
D.167	135 x 115 x 38	-	120
D.168	114 x 55 x 38	-	130

Universal clutch aligner

U.25A

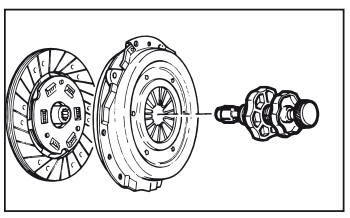
• Bush and cone system.
• Comprising :
- 1 guide spindle
- 11 bushes ∅12 to 22 mm.
- 3 cones ∅ 25, 30 and 40 mm.
• Supplied in steel case.
• Dimensions : 322 x 136 x 53 mm.
⚖ : 1.14 kg.

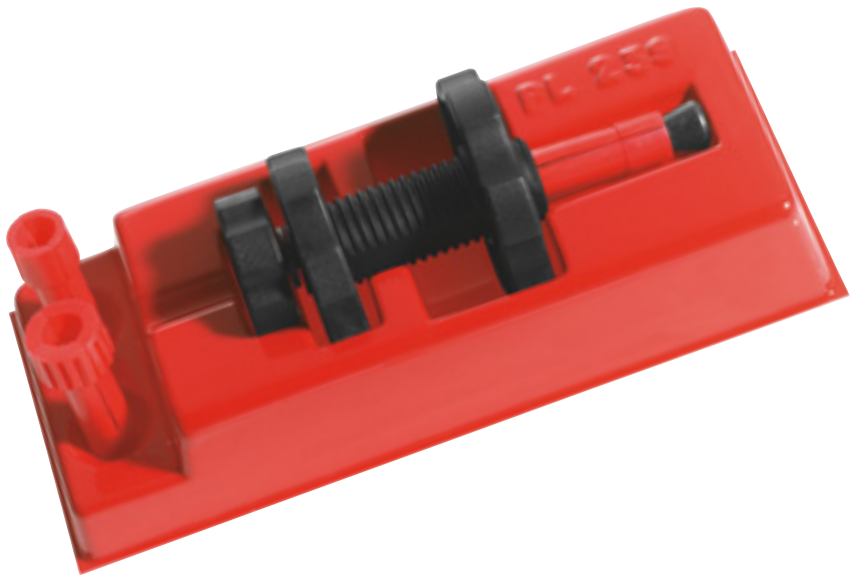


Universal clutch aligner

DM.30

• Centres and holds clutch friction and pressure plates.
• Supplied complete with 3 expansion tapers.
• Taper for. ∅ 18 to 21 mm.
• Taper for. ∅ 22 to 25 mm.
• Taper for. ∅ 14.5 to 18 mm.





Inside and outside circlip® pliers

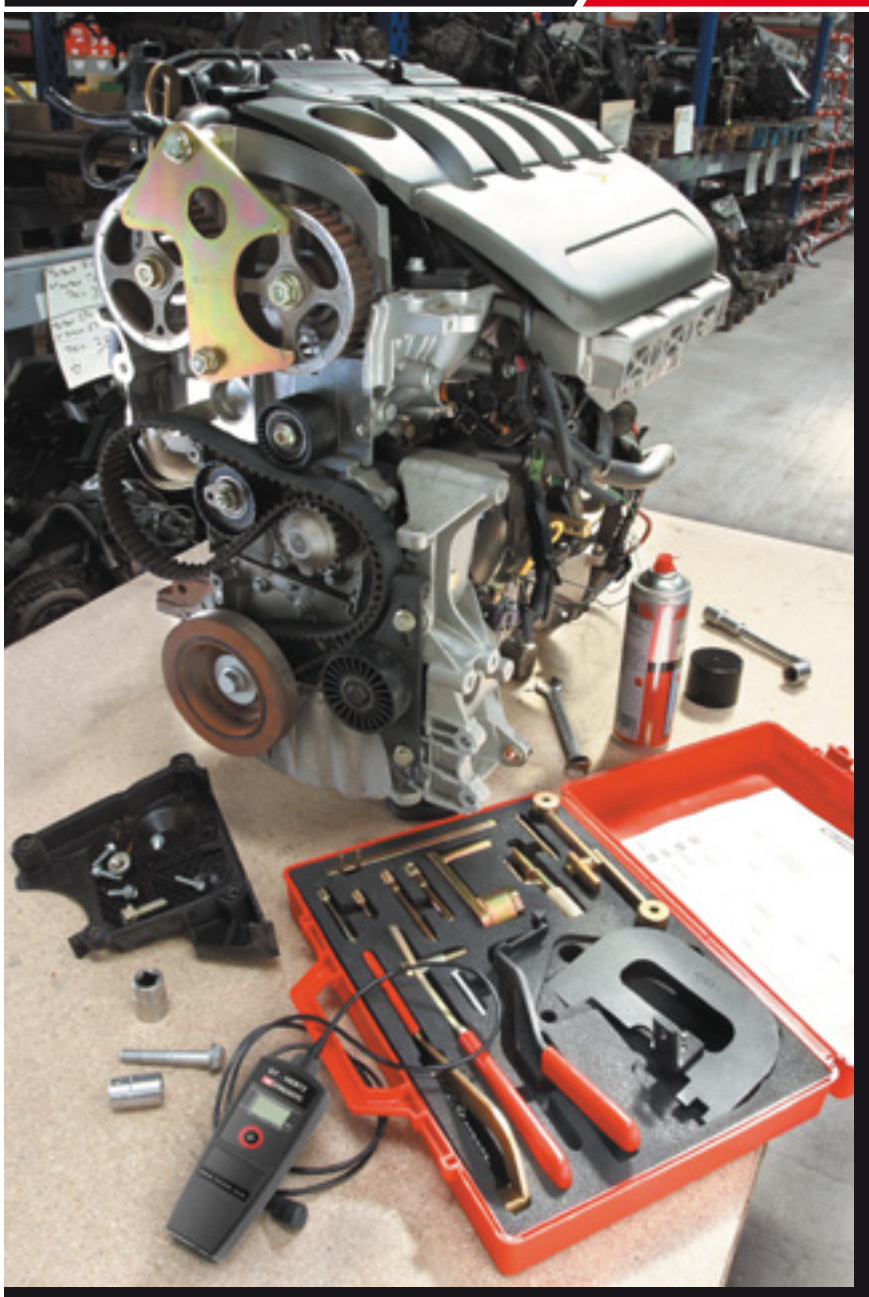
470

• Interchangeable tips for :
- ∅ 8 to 63 mm for outside circlips® .
- ∅ 3 to 63 mm for outside circlips® .
• Comprising :
- 469.PA Inside-circlip® pliers.
- 467.PA Outside circlip® pliers.
- 82.2.5 key.
- Set of 18 removable tips.
- Supplied in a plastic case.
⚖ : 1.5 kg.

	Description
467.01AJ2	Set of spare screws

Diesel engine and fuel pump timing

DT series TIMING ADJUSTMENT



SPEED AND ACCURACY

For safe accurate timing adjustment.

The ignition timing of modern multi-valve petrol and high pressure diesel engines requires accurate adjustment

Inaccurate adjustment can lead to :
- over-consumption, engine breakage, malfunction, pollution, etc.

On many modern twin-cam engines, at least one of the two pulleys will turn when the timing belt is removed :

- the method of aligning timing marks is no longer appropriate.

Poor timing adjustment will at the very least cause engine malfunction, requiring the work to be restarted :
- the use of timing tools really does save time.

For all of these reasons, it is essential to immobilise the engine when readjusting timing or changing the timing belt.

The right equipment ensures profitability

With a separate kit for each make or range of engines, you only buy the tools that you need.

The kits are defined according to the European vehicle fleet and timing belt sales statistics.

A clear and precise method.

Each kit comes with precise instructions that are sufficient for changing a timing belt or chain, or for adjusting the timing.

Regular updates :
See www.facom.com
for our latest products and applications.

Timing kit

PSA petrol and diesel engine timing kit

DT.PSA-A

- Covers most of the PSA group's petrol and diesel engines.
- Metal case
- Instruction manual with vehicle application guide in seven languages. (FR, DE, GB, ES, P, IT, NL).

	Height mm	Width mm	Depth mm	⚖ kg
DT.PSA-A	55	450	315	4,96

VAG petrol and diesel engine timing kit

DT.VAG-A

- Covers most of the VAG group's petrol and diesel engines.
- Metal case
- Instruction manual with vehicle applications guide in seven languages. (FR, DE, GB, ES, P, IT, NL).

	Height mm	Width mm	Depth mm	⚖ kg
DT.VAG-A	55	450	315	5,25

BMW petrol and diesel engine timing kit

DT.BMW

- Metal case.
- For petrol and diesel engines.
- Instruction manual with vehicle applications guide in seven languages. (FR, DE, GB, ES, P, IT, NL).

	Height mm	Width mm	Depth mm	⚖ kg
DT.BMW	55	410	285	6,52

Renault Diesel DCI timing kit

DT.DCI

- 9-piece timing kit.

>> For DCi engine

- Supplied with operating instructions and vehicle application guide.
- Dimensions : H50xL270xD230 mm.

⚖ : 1.8 kg.

FIAT diesel engine timing kit

DT.FIAT-D

- Covers most FIAT diesel engines.
- Metal case.
- Instruction manual with vehicle applications guide in seven languages. (FR, DE, GB, ES, P, IT, NL).

	Height mm	Width mm	Depth mm	⚖ kg
DT.FIAT-D	55	282	230	2,97

Timing kit for FIAT 1.2L to 1.6L petrol engines

DT.FIAT-P

- Metal case.
- For working on FIAT 1.2L to 1.6L petrol engines
- Instruction manual with vehicle applications guide in seven languages. (FR, DE, GB, ES, P, IT, NL).

	Height mm	Width mm	Depth mm	⚖ kg
DT.FIAT-P	55	350	270	4,14

Renault engine timing kit

DT.REN

- Supplied with operating instructions and vehicle application guide.

>> R5, R9, R11, R19, R21, R25, Clio, Twingo, Megane/Scenic, Laguna, Safrane, Velsatis, Espace, Express, Kangoo, Traffic Master.

⚖ : 4.330 kg.

Timing kit for FIAT 1.8L to 2.00L petrol engines

DT.FIAT-P2

- Instruction manual with vehicle applications guide in seven languages. (FR, DE, GB, ES, P, IT, NL).
- Metal case.
- For working on FIAT 1.8L to 2.0L petrol engines

	Height mm	Width mm	Depth mm	⚖ kg
DT.FIAT-P2	55	350	265	3,45

Ford engine timing kit

DT.FORD

- Supplied with operating instructions and vehicle application guide.

>> Fiesta, Escort, Focus, Puma, Mondeo Cougar, Orion, Sierra, P100, Courier, Kombi, Transit Galaxy.

- Dimensions : H60xL240xD270 mm.

⚖ : 1.500 kg.

Opel engine timing kit

DT.OPEL

- Supplied with operating instructions and vehicle application guide.

>> Corsa, Tigra, Meriva, Astra, Vectra, Zafira, Omega, Frontera, Agila, Nova, Monterey, Midi.

- Dimensions : H100xL330xD390 mm.

⚖ : 3.900 kg.

DT.XX - Timing kit upgrades.

KEEP YOU TIMING KITS UP TO DATE

Facom upgrade kits, for completing your equipment.

See the Facom web site for details of our latest offers :
www.facom.com

Additional update kit for DT.PSA users

DT.PSA-U

- For upgrading from DT.PSA to DT.PSA-A.
- Only for owners of DT.PSA kits.
- Large metal storage case with free slots for DT.PSA kit components.
- Instruction manual with vehicle applications guide in seven languages. (FR, DE, GB, ES, P, IT, NL).

	Height mm	Width mm	Depth mm	kg
DT.PSA-U	55	450	315	3,14

Additional upgrade kit for DT.VAG users

DT.VAG-U

- For upgrading from DT.VAG to DT.VAG-A.
- Only for owners of DT.VAG timing kits.
- Large metal storage case with free slots for DT.VAG kit components.
- Covers most of the VAG group's petrol and diesel engines.
- Instruction manual with vehicle applications guide in seven languages. (FR, DE, GB, ES, P, IT, NL).

	Height mm	Width mm	Depth mm	kg
DT.VAG-U	55	450	315	3,14

Diesel injection pump timing kit

DT.DIESEL

• Supplied with operating instructions and vehicle application guide.
>> Bosch type VE, EPVE, KIKI, NIPPONDENSO, CAV, LUCAS, ROTODIESEL.
• Dimensions : H50xL200xD230 mm.
⚖ : 700 g.

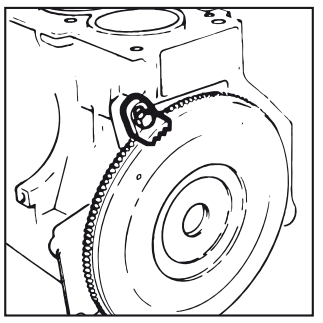
Universal pulley stay kit

DT.BLOC

• Supplied with operating instructions
For securing double or single camshaft and injection pump pulleys in place.
• Dimensions : H100xL190xD280 mm.
⚖ : 1.2 kg.

Flywheel stay

D.86

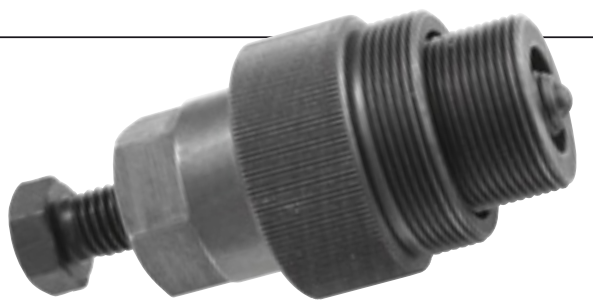


• Dimensions : 30 x 46 x 25 mm.
⚖ : 21 g.

New

BMW pump puller

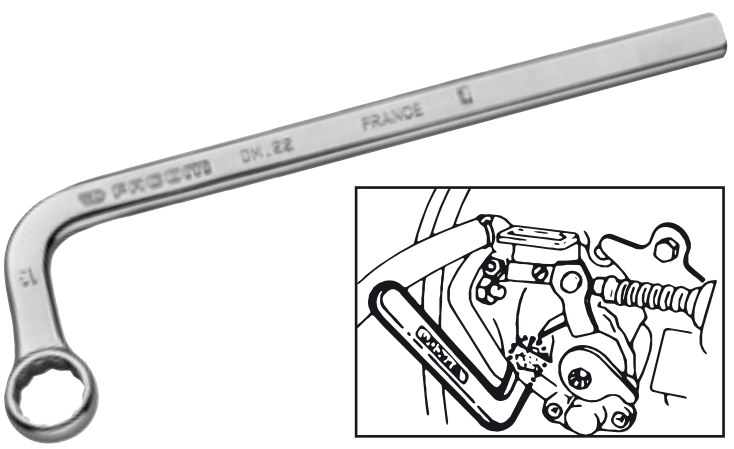
DT.P



• For removing the VP44 and High Pressure Common Rail pumps of BMW vehicles.

Injection pump wrench

DM.22



>> ALFA ROMEO, AUDI, CITROËN, CHRYSLER, FIAT, FORD, NISSAN, OPEL, PEUGEOT, RENAULT, ROVER, SEAT, VOLKSWAGEN, VOLVO.
• 13 mm 12-point.
• Dimensions : 170 x 55 x 8 mm.
⚖ : 90 g.

Pulleys - sprockets - belts

Belt tension testing

DT.HERTZ - Belt tension tester.

THE RIGHT TENSION GUARANTEED

Avoid breakage

The correct belt tension is essential :

- *If insufficiently tight, the auxiliary belts will slip and become worn. Timing belts may jump (engine breakdown)*
- *If over-tightened, the forces will damage the rollers and pumps.*
- *Risk of premature belt failure.*

Easy, accurate testing

Simply place the ultra-compact sensor against the belt and induce a vibration in the belt (like a guitar string).

Compare the displayed reading with the recommended value in the guide.

Regular updates.

The DT.DOC guide is regularly updated. See www.facom.com for the reference number of the latest version.

Multi-make electronic belt tension-meter

DT.HERTZ

- Quickly and easily checks the tension of timing and auixiliary belts.
- The tension meter comes with a reading conversion guide allowing the vehicle repairer to validate the adjustments.
- Can be used for all belts on the market.
- Compact, manoeuvrable tool, can be operated one-handed.
- Cable length : 1,200 mm.
- Case LxWxH (mm) : 135x50x28.

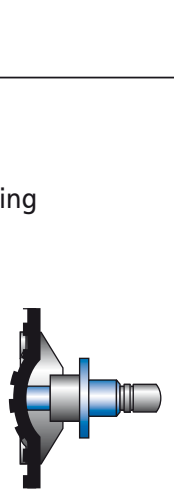
⚖ : 150 g.

Timing belt tension meter

DM.16

- For checking timing belt tension.
- Comes with 6 interchangeable ends, a belt thickness measuring gauge and a calibration checking gauge.
- Dimensions : 170 x 120 x 50 mm.

⚖ : 420 g.

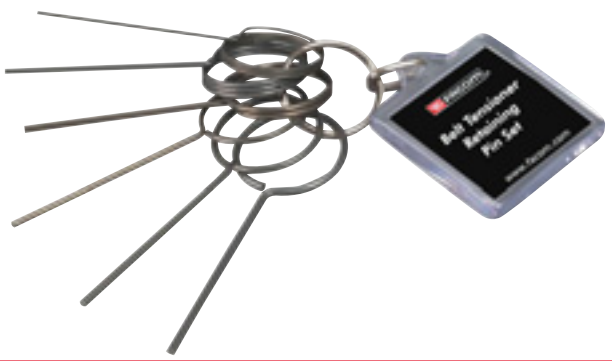


6-piece pin set

DT.PIN

- Set of pins for keeping automatic tensioners compressed while working.
- Supplied with vehicle application list
- Dimensions : 140 x 50 x 35 mm.

⚖ : 30 g.



Pulley pulling

DM.50 - Multi-groove pulley puller.

Avoid engine dismantling

Compact.

Compact puller for removing multi-groove crankshaft pulleys.

Essential for replacing the timing belts of most RENAULT engines

Multi-diameter damper pulley puller

DM.50

- Removes crankshaft multi-groove pulleys without damage.
- Lockable, adjustable legs to fit the various pulley sizes from 45 to 175 mm diameter.
- Compact design for working on engine in situ.
- Pulley capacity : ∅ 45 to 175 mm.
- No groove : 3.56 mm.

⚖ : 1.12 kg.

Multi-diameter timing and injection pump pulley puller

DM.17A

- Removes pulleys without damage.
- Adjustable legs adapt to differing pulley diameters.
- Compact design for working on engine in situ.
- Dimensions : 90 x 110 mm.

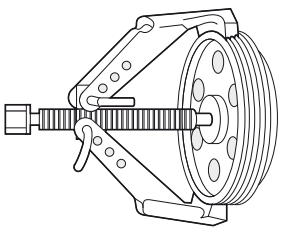
⚖ : 925 g.

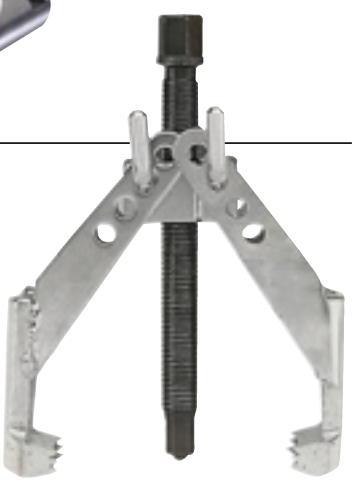
Pulley puller

DM.31

- For removing crankshaft pulley by gripping the pulley grooves.
- Pulley capacity : ∅ 130 to 156 mm.

⚖ : 1.05 kg.





Pulley stay

Pulley stay

DM.8

- For blocking multi-groove pulleys.
- Can serve to for crank an engine.
- Capacity ∅ 40 to 140 mm.
- Handle length 350 mm.

⚖ : 780 g.

Universal pulley wrench

DT.CLE

- For blocking, cranking and holding camshaft and injection pump pulleys.
- Length : 410 mm.

⚖ : 950 g.

Inspection

Disc brake vernier caliper

DF.18-01

- Vernier caliper for checking the thickness of brake discs.
- Accurate, error-free reading.
- Measurements can be taken with wheel in place (if no protective bodywork).
- Can quickly demonstrate to customers the need for changing brakes.
- Supplied in a reinforced fabric case with serial number for traceability in ISO certified workshops.
- Capacity 0 to 50 mm, outer thickness measurement for the disc brakes of cars and LCVs.
- Nose length : 50 mm.
- 0.1 mm reading increments.
- Mechanical memory device.

⚖ : 250 g.

Drum brake vernier caliper

DF.19-01

- Capacity and reading to suit the requirements of car, LCV and HGV applications.
- Supplied in a reinforced fabric case with serial number for traceability in ISO certified workshops.
- Capacity 40 to 300 mm, inner drum measurement for cars and LCVs.
- Nose length : 100 mm.
- 0.20 mm reading increments for internal drum measurements.
- 0.10 mm increments for readings between tips.

⚖ : 700 g.

DF.16

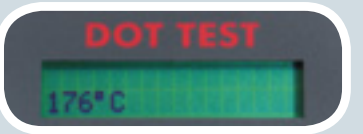
QUICK BRAKE FLUID TESTER

A quick, cost-effective analysis.
For the safety of your customers.

- *Water in the brake fluid can turn into vapour under severe or repeated braking, making the brake pedal ineffective.*

The boiling point of brake fluids must exceed a specified minimum value :

DOT 3	140°C
DOT 4	155°C
DOT 5.1	180°C



Brake fluid tester

DF.16

- For testing brake fluids (DOT3, DOT4, DOT5.1).
- Measures brake fluid boiling point.
- Automatic test lasting up to 1 min.
- LCD display.
- °C/°F switch.
- Accuracy : 3 %.
- Air supply : 12 V (vehicle battery).
- Supplied in a plastic case
- Dimensions : 350 x 285 x 80 mm.

	Description
DF.16-02	Set of 10 pipettes

Dual-gauge brake pressure tester

DF.8

• For testing compensator operating pressures and diagonally-split brake systems.
• Max. pressure : 200 bar.
• Accuracy : ± 1 %.
• Hose : ∅ int. 2 mm.
• Length : 1 x 3 m / 1 x 5 m.
• Supplied complete with fittings and storage case.
• Dimensions : 375 x 270 x 75 mm.
⚖ : 2 kg.

Diagnostics and bleeding

Brake bleeding : a safety requirement

FAST AND EFFICIENT

Brake bleeding is an operation that takes 10 to 15 minutes with a modern appliance such as the DF.20-100 or DF.21. A single operator is able to fill and bleed the brake system.

A profitable operation for the workshop.

A brake bleeder is very quickly cost-effective, and its cost is absorbed in under 50 operations.

Safety first

It is recommended to replace the brake fluid once every two years or after 40,000 km depending on the manufacturer.

Brake and clutch system bleeder

DF.20-100

• For bleeding car and LCV brakes and HGV clutches
• ABS compatible.
• Helps hydraulic system leak detection.
• Portable, stand-alone appliance (12 V).
• Liquid drawn by peristaltic pump action, avoiding contact between the fluid and the moving parts of the pump.
• Automatic pressure regulator (automatically keeps the working pressure below 2 bars for ABS systems).
• Reservoir with visible level and min. level indicator
• Filter diameter : 5 l.
• Body : stainless/ABS
• Length of hose and power cable : 4 m.
• Metal accessory storage case.
1 multi diameter plug for using the bleeder on vehicles with a bayonet plug (DF.20-12).
1 screw plug with 90° connection (DF.20-07).
1 fluid collector with attaching chain.
⚖ : 11 kg.

Electronic pressure control

POWER AND PRECISION

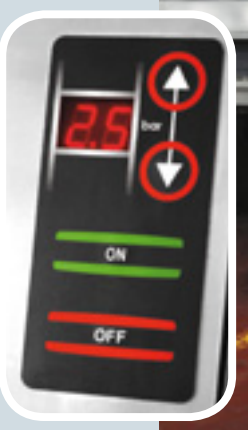
Efficiency and precision.

Changing a hydraulic antilock unit involves refilling the system and the unit at low pressure.

It is therefore essential to be able to accurately maintain the required pressure on the brake bleeder by means of an efficient electronic control system.

Power and flow rate.

More power and a higher flow rate are needed for for bleeding HGV clutch systems :
The pump of the DF.21 bleeder is suitable for such applications.



New

Adjustable-pressure electronic brake bleeder

DF.21

- For bleeding car and LCV brakes and HGV clutches
- Pressure adjustment from 0.5 to 3 bar.
- Up and Down pressure adjustment keys.
- Electronic pressure control holds pressure steady at the selected value.
- ABS compatible.
- Portable, stand-alone appliance (12 V).
- Reservoir with visible level.
- Automatically stops below minimum level.
- Capacity : 5 l.
- Body : stainless/ABS
- Length of hose and power cable 4 m.
- Metal accessory storage case.

1 multi diameter plug for using the bleeder on vehicles with a bayonet plug (DF.20-12).
1 screw plug with 90° connection (DF.20-07).
1 fluid collector with attaching chain.
⚖ : 11 kg.

Universal plug for bleeding brakes and clutches of LVs and HGVs.

DF.20-12

- Can be used for bleeding the brakes and clutches of 90 % of vehicles.
- Claw system overcomes the many different bayonet shapes and different types and diameters of screw threads used by the various vehicle manufacturers.
- Fits most Asian makes (except Honda).
- Can also be used for bleeding HGV clutches .
- Working diameter : 35 to 83 mm.
- Minimum clearance required above the jar : 80 mm.
- Maximum working pressure of the bleeder : 3 bar.
- Connection by Rectus series 21 male coupling.
- Dimensions : 115 x 195x 85 mm.

⚖ : 475 g.

Aluminium brake bleeder plug

DF.20-07

- Special thread fits ∅ 44 and 45 mm.
- 90° swivel connection.
- Minimum clearance required above the jar : 40 mm.
- Used with DF.20 or DF.21 to automatically replenish the brake fluid jar.

⚖ : 70 g.

Disc brakes

DF.17 Pneumatic disc brake piston pushing/turning tools

Essential for replacing brake pads.

Quick and easy to use

The pneumatic cylinder holds the flange against the head of the brake piston and the long handle allows the piston to be wound-back in a clockwise or anti-clockwise direction with minimum effort.

Saves time.

The special Facom flange design covers the entire European vehicle fleet with only 6 flange types, minimising the number of flange changes and saving time.

New

Pneumatic disc brake piston pushing/turning tool

DF.17

- Pneumatic cylinder for retracting and rotating the piston.
- Frequency of use : at each brake pad replacement.
- Supplied in a plastic case with operating instructions and application guide.
- Compatible with flanges DF.6A.
- Can be used on clockwise and anti-clockwise pistons.
- Max. pressure 6.2 bars, 1/4" NPT Diameter 10 mm 3/8".

⚖ : 2.28 kg.

New

Disc brake piston winding-back set

DF.17-100

- Comprising :

- 1 DF.17 air tool.
- 6 flanges DF.6-2 / DF.6-3 / DF.6-4 / DF.6-5 / DF.6-8 / DF.6-9.

- Covers the majority of the European fleet
- Supplied in a plastic case with operating instructions and application guide.

⚖ : 2.83 kg.

Disc brake module

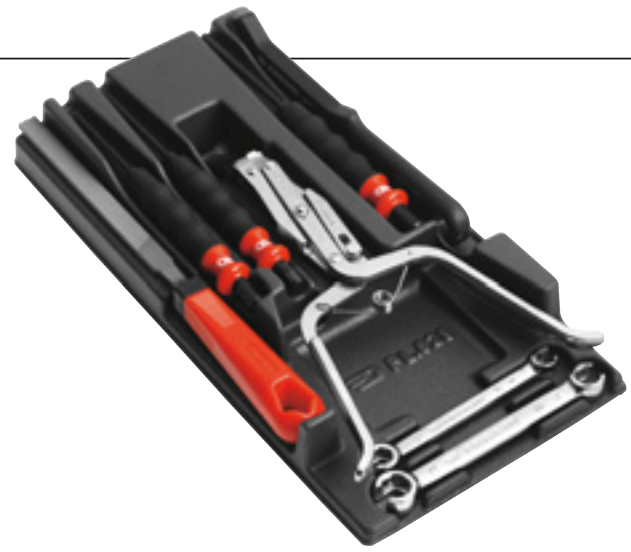
MOD.DFPB

- Comprising :

- D.60A Brake piston pliers.
- DF.3 Wire brush.
- DF.4 Caliper file.
- 249.G4/5/6 drift punches with shock-absorber handle.
- 43.8x10 / 11x13 Flare-nut wrenches.

- Tray PL.629

⚖ : 1.22 kg.



Wire brush.

DF.3

- For cleaning calipers.
- Dimensions : 225 x 45 x 15 mm.

⚖ : 65 g.

Special file

DF.4

- For cleaning calipers.
- Length : 265 mm.

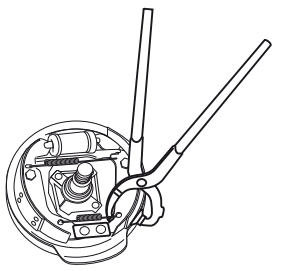
⚖ : 110 g.

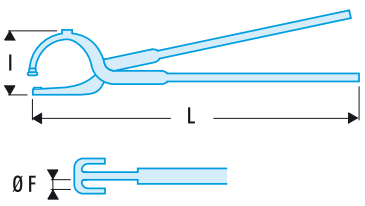
Drum brakes

196 Brake-spring pliers

- For removing shoe springs.
- Suitable for right-handed and left-handed working.

	Ø F mm	L mm	l mm	⚖ kg
196.TS	3	350	83	0,58
196.KS	5	485	100	1,23





Drum brake servicing module

MOD.196-1

- 196.TMS Brake-spring pliers.
- D.104A Steady-spring tool.
- D.79A Hand-brake pliers.
- T.243 Set of 4 brake cylinder clips.
- Tray PL.628

⚖ : 1.53 kg.

Hand-brake pliers

D.79A

- For easy hook-up of hand-brake cable.
- Length : 230 mm.

⚖ : 180 g.

Steady-spring tool

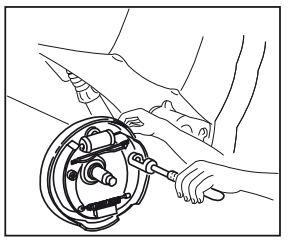
D.104A

- Fits steady-spring caps for compression against drum-brake shoes.

>> All makes.

- 240 x Ø 34 mm.

⚖ : 240 g.



Brake lines

Brake line renewal

REFORM FLANGES AS NEW

A complete set of brake line renewal tools.

Press 347 can be used to form all types of SAE or DIN flanges on the workbench. It is particularly suitable for LCVs and HGVs.

The DF.475 hand press can be used directly on light vehicles to reform flanges, without the need to remove the entire pipe.

Flange press

DF.475

- Specifically designed for flanging (∅ 4.75 mm) automotive brake lines.
- SAE or DIN fittings are formed easily with the help of its 3 T hydraulic jack.
- Compact size allows working in situ on vehicles.
- ∅ 4.75 mm.
- Dimensions : 212 x 200 x 75 mm.

⚖ : 1.1 kg.

Flange press set for S.A.E, DIN, S.A.E./DIN fittings

347

- For copper and steel pipework ∅ 4.75 to 12 mm; 3/16" to 1/2".
- Wall thickness : 0.7 to 1 mm.
- Press can be secured in a vice for increased stability.
- Fast and effortless forming.
- Kit includes 11 punches and 10 dies.
- Instructions explain selection according to flange type.
- Steel case : 396 x 224 x 82 mm.

⚖ : 7.9 kg.

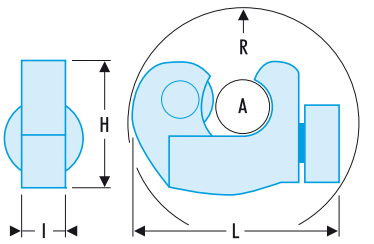
3 - 16 mm mini pipe-cutter

238.16

- Very compact.
- Can be used in situ.
- Minimal working radius.
- 238A.16 : grey.

⚖ : 120 g.

	A		R	H	l	L	⚖
	mm	"	mm	mm	mm	mm	g
238A.16	3 - 16	1/8 - 5/8	38	35	21	55	120

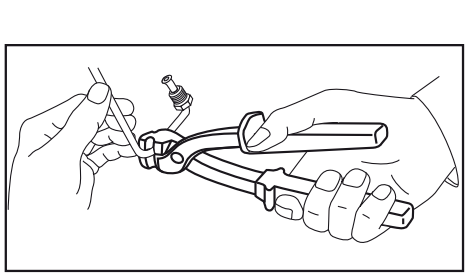


Pipe bender

DFR

- For pipework Ø 4.75 mm, to shape and hold brake lines when tightening a union.
- Length : 235 mm.

⚖ : 410 g.



Metric flare-nut wrench module

MOD.43

	Comprising	Tray	⚖
			g
MOD.43	43.7x9 - 8x10 - 11x13 - 12x14 - 17x19	PL.635	960

Strut removal

Removal of MacPherson strut support arms

SAFETY AND EFFICIENCY

Fast

• Allows one person on their own to quickly remove the MacPherson strut from the clamp.
• No risk of transmission disconnection.
• Base fitted with a ball joint allowing the stand to take-up the angle of the shock-absorber and transfer load axially.

Safe

• For removing and installing struts without a lever, without knocking and with. no risk of slippage or damage.

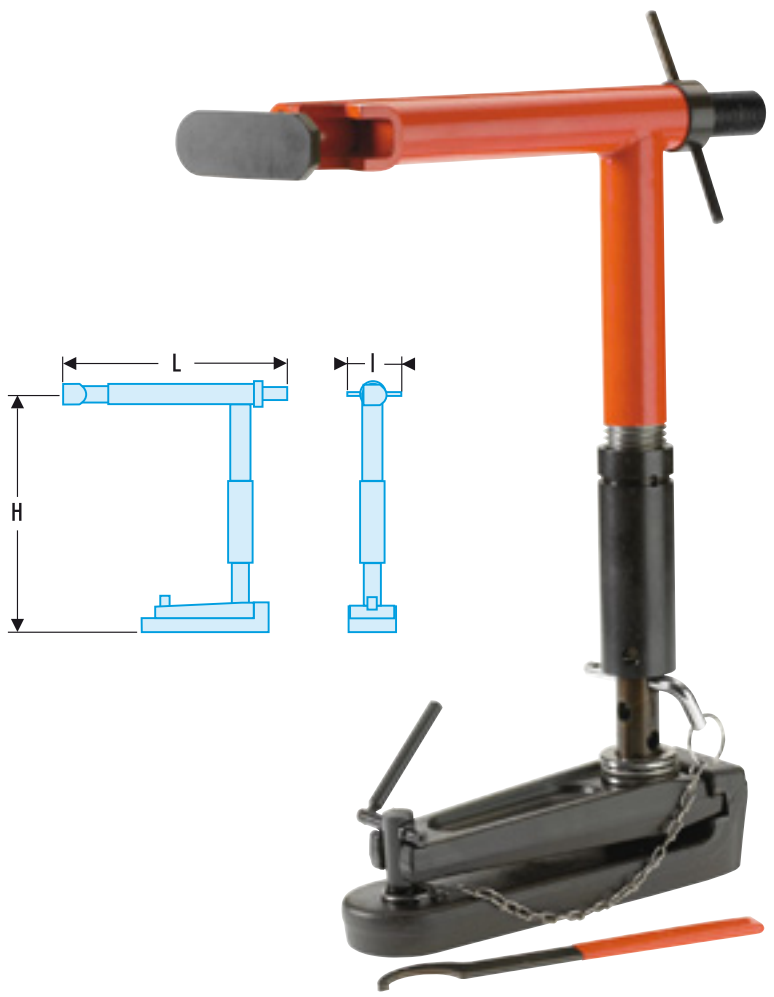
• Easy to remove.

• Ball joint for axial load transfer.

MacPherson strut removal stand

DLS.50

• Allows one person to safely remove MacPherson strut support arms.
• No risk of damage to the front axle : avoids the risk of damage to the brake system corrosion protection, tripod disconnection (loss of needle bearing) , transmission separation (loss of gearbox oil).
• Post supported on ball joint allowing pushing force to be applied along the axis of the strut.
• For MacPherson struts 46 mm to 65 mm ∅.
• Max. travel to release strut from clamp : 90 mm.
• Maximum effort : 550 Nm.
>> Citroen, Ford, Peugeot, Renault, VAG Group.



	H min - max mm	L mm	l mm	kg
DLS.50	495 - 740	420	150	14,5

MacPherson clamp separator set

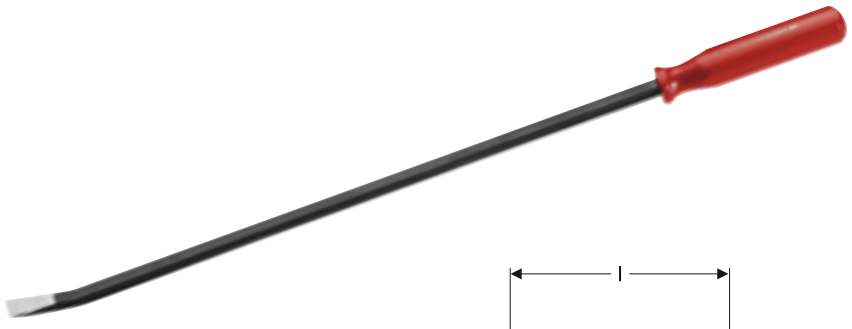
DS.J5

• Comprising :
- DS.10A : 7.5 x 9 mm.
- DS.11A : 5.2 x 6.9 mm.
- DS.12A : 6.6 x 7.9 mm.
- DS.13 : 4.3 x 6 mm.
- DS.14 : 12.7 x 16.7 mm.
- DS.P : 3/8" (9.53 mm) square drive operating handle.
- J.236 : Bit holder

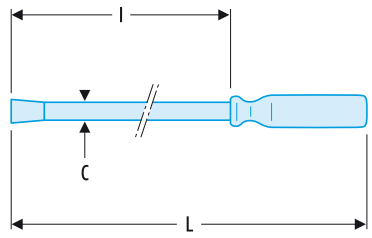
• Helps open the clamp on vehicles fitted with MacPherson struts.
• Allows shock-absorbers to be stripped down at the work bench.
• Fast and efficient.
>> all vehicles fitted with removable clamps (Citroen, Peugeot, Ford, VAG, Audi).
• A "junior" series ratchet can be used instead of the handle (space provided in the case).

D.3 Power levers

• Sturdy blade minimizing lever spring effect.
• Dimensions 670 x 145 x 40 mm.
• ⚖ : 1.648 kg.



	L mm	l mm	C"	⚖ kg
D.3-7	292	165	3/8	0,275
D.3-12	422	305	3/8	0,345
D.3-18	635	460	1/2	0,81
D.3-24	787	610	1/2	1,03
D.3-30	915	740	5/8	1,71



Set of 3 power levers

D.3J3

• Sturdy blade minimizing lever spring effect.
• Many uses : suspension, running gear, bodywork, etc.
• Presented on a blister tray.
• Set comprising one D.3-7, one D.3-12 and one D.3-18.
• Dimensions 670 x 145 x 40 mm.
• ⚖ : 1.648 kg.

Compressors

U.89 SPRING COMPRESSORS

A CHOICE FOR EVERY NEED

Mechanical compressor : Safe compression with an impact wrench.

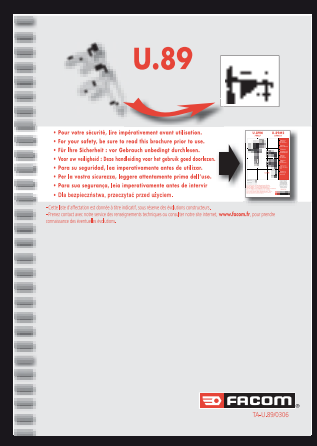
- *The compressor's new internal mechanical mechanism is designed to work with a 1/2" impact wrench.*
- *A shear pin on the hexagonal drive screw protects the operator against excessively high torques.*

Hydraulic compressor : higher productivity.

- *Maximum power, minimum effort.*
- *Leaves both hands free when placing the tool.*

The most universal system.

The most extensive coverage of the European vehicle fleet equipped with MacPherson struts, with only five sets of forks.
Our vehicle applications list, tested and checked by us, covers 36 makes of vehicle, 360 models and hundreds of versions (at 1/12/06).
The system is continuously being tested on vehicles, and new vehicles are added to our data base each week :
see it on www.facom.com.



Safety first

The safe choice :

Choose a compressor that is suited to current spring strengths, with a body failure limit of 100,000 N, LNE and CE tested.

Hydraulic compressor

U.89H2JM

• Comprising :
- Body U.89H2.
- Set of multiple diameter forks U.89JM.
• For spring ∅ 100 to ∅ 215 mm.
⚖ : 11.5 kg.

Hydraulic compressor + 3 sets of forks J1, J2, and J3

U.89H30

• Two-stage screw-operated telescopic body (22 mm hexagonal drive).
• Movable spacer allowing the forks to be used in 2 positions.
• Tested to 100,000 N.
• Travel : 235 mm.
• Supplied with 3 pairs of plastic-coated forks J1, J2, and J3
• CE.
• Dimensions : Compressed length : 305 mm.
• Extended length : 540 mm.
• Diameter : 70 mm.
⚖ : 11.5 kg.

Hydraulic body

U.89H2

• Two-stage hydraulic cylinder operated telescopic body.
• Travel : 245 mm.
• 3/8" NPT threaded connection
• Body fitted with spacer.
• Tested to 100,000 N, allowing 2 different fork positions for a perfect fit on springs with a small number of coils.
• CE.

Mechanical pump

WV.M401

• Dual pedal-operated (pressure and relief) 400 bar hydraulic pump.
• Foot controlled, leaving the operator with both hands free for greater safety and efficiency.
• 300 cm^3 capacity.
• Ideal pump for 4 - Tonne series hydraulic accessories and spring compressors U.89H
• Supplied complete with WA.1165A 1.20m hose and female quick coupler.
⚖ : 6.5 kg.

	Description
WA.21	Hydraulic oil - 2 litres
WA.1165A	Hose 1.20 m
WA.1166F	3/8" female coupler

Mechanical compressor with multi-diameter forks

U.89M2JM

• Comprising :
- U.89M2 Mechanical body with 2 position spacer.
- U.89JMA Pair of multi-diameter forks for spring ∅ 100 to 215 mm.
• Supplied with operating instructions and vehicle application guide.
⚖ : 11.6 kg.

Spring compressor Universal system with interchangeable forks

U.89M30

- Two-stage screw-operated telescopic body(22 mm hexagonal drive).
- Movable spacer allowing the forks to be used in 2 positions.
- Can be used with a 1/2" impact wrench.
- Body tested to 100,000 N.
- Travel : 235 mm.
- Compressed length : 305 mm.
- Extended length 540 mm.
- 70 mm diameter.
- Supplied with 3 sets of plastic-coated forks J1, J2, and J3
- CE.

⚖ : 14.7 kg.

Mechanical body

U.89M2

- Two-stage screw operated telescopic body.
- 22 mm hexagonal drive. Can be used with a 1/2" electric or pneumatic impact wrench.
- Tested to 100,000 N.
- Spacer provides an optional lower fork position for maximum travel on springs with a small number of coils.
- Can be used with all U.89 forks.
- Travel : 235 mm.
- Extended length : 540 mm.
- Compressed length : 305 mm.
- Diameter : 70 mm.

⚖ : 5.1 kg.

Mini mechanical set

U.89M20

- Comprising :

- U.89M Mechanical body.
- U.89J1 Set of forks.
- U.89J2 Set of forks.

- Supplied with operating instructions and vehicle application guide.

⚖ : 14.7 kg.

Standard mechanical set

U.89M30

- Comprising :

- U.89M Mechanical body.
- U.89J1 Set of forks.
- U.89J2 Set of forks.
- U.89J3 Set of forks.

- Supplied with operating instructions and vehicle application guide.

⚖ : 19.1 kg.

Mechanical body

U.89M

- Two-stage screw operated telescopic body.
- ☐ 22 mm hexagonal drive.
- Can be use with an electric or mechanical impact wrench.
- Tested to 100,000 N.
- Fitted with a safety pin.
- Can be used with all U.89 forks.
- Travel : 235 mm.
- Extended length : 540 mm.
- Compressed length : 305 mm.
- Diameter : 70 mm.

⚖ : 5 kg.

Vehicle applications

FOR YOUR SAFETY, CHOOSE THE RIGHT FORK

With each compressor

Our spring compressors and suspension workstations are supplied with a vehicle application list for existing forks according to vehicle make and model.
We constantly test new vehicles in order to recommend the most suitable fork to use.
Checking the recommended fork before removing a shock-absorber will save time and ensure safety.

www.facom.com at your service

Vehicle application data is updated on our web site every month :

Section :
- *service*
- *vehicle application guide*
- *suspension*

Fork application list

TA-U.89/0606

- Updated U.89 spring compressor application list..
- Laminated manual, A5 format with perforations.
- 12 pages.
- 36 makes, 360 models, over 1,000 versions (European vehicle fleet).

⚖ : 25 g.

Set of forks.

- Open design allows quick fitting of forks to the body and saves space when working on a vehicle.
- Spring positioning grooves.
- PVC-coated forks.
- Coating endurance tested to 10,000 cycles.

		Ø mini mm	Ø maxi mm	⚖ kg
U.89J1		99	156	4,14
U.89J2		129	174	4,43
U.89J3		139	218	5,15
U.89J5		71	119	3,6

Multi-diameter fork set

U.89JMA

- Offset forks : grip the spring at the end of the coil, thus increasing the compressor's effective travel. This shape of fork is particularly effective for use on new-generation springs having a small number of coils.
- A hinged joint at the connection to the compressor allows the fork to be aligned with the slope of the coil.
- New design, forks fit directly onto the springs for quick installation.
- Suitable for 100 to 215 mm springs.
- Compatible with all U.89 bodies without modification.

⚖ : 6.6 kg.

Offset fork set

- Open design allows quick fitting of forks to the body and saves space when working on a vehicle.
- Spring positioning grooves.

		Ø mini mm	Ø maxi mm	⚖ kg
U.89J12		145	170	4,33
U.89J14		170	195	5

Workstation

DLS.300 WORKSTATION

FOR EASIER AND SAFER SERVICING

No compressor to carry

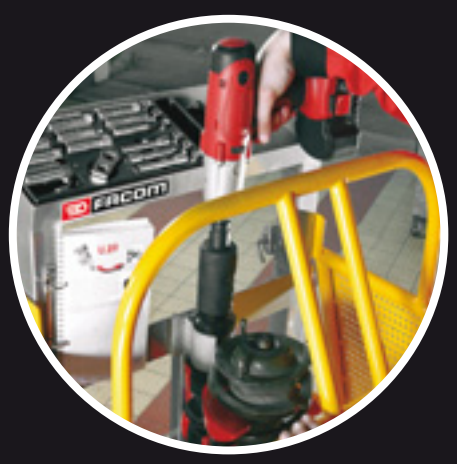
- *The strut fits easily in the jaws of the compressor.*

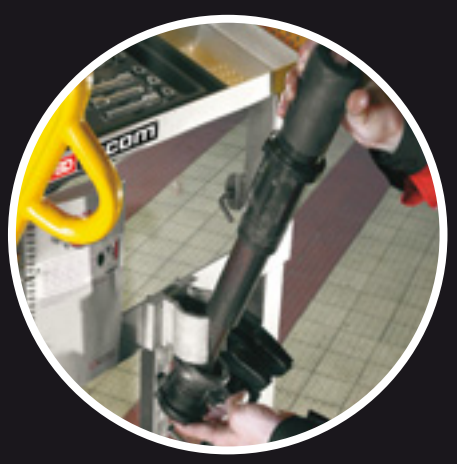
Your safety assured

- *You are protected by a reinforced steel safety gate that is easily lowered once the strut is in place.*

All tools readily to hand

- *All the tools necessary for changing shock-absorbers are within easy reach.*
- *The tools for removing the strut rods can be placed on a high-level shelf.*
- *All forks can be reached from both sides of the unit.*
- *Special storage locations are also provided for an impact wrench as well as a torque wrench.*



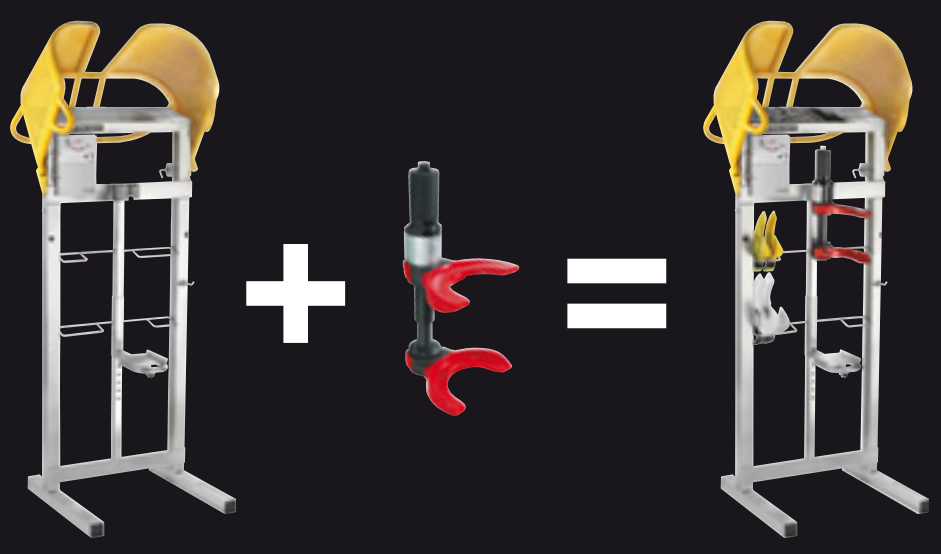


Can be used directly on the vehicle

- *Certain specific models or certain rear suspension assemblies require servicing to be performed directly on the vehicle, in which case the compressor can instantly be removed from the workstation.*

A gradual investment : from the spring compressor to the shock-absorber workstation.

- *You can upgrade your Facom compressor by means of the DLS.300-03 adaptor that can receive all compressor bodies up to 55 mm in diameter.*



New

Spring compressor workstation

DLS.300

- Designed to receive FACOM compressors U.89M2 and U.89H2.
- Can accommodate up to 6 sets of forks.
- Impact wrench storage space.
- Space for set D.83C (new XL module).
- Space for application list
- Hook for torque wrench.
- Small plan dimensions : 540 x 570 mm.
- Closed height 1,410 mm max. height 1,726 mm.
- Supplied with operating instructions and vehicle application guide.

⚖ : 35 kg.

New

Spring compressor workstation

DLS.301

- Designed to receive FACOM compressors U.89M2 and U.89H2.
- Can accommodate up to 6 sets of forks.
- Impact wrench storage space.
- Space for set D.83C (new XL module).
- Space for application list
- Hook for torque wrench.
- Small plan dimensions : 540 x 570 mm.
- Folded height 1,410 mm max. height 1,726 mm.
- Supplied with operating instructions and vehicle application guide.

⚖ : 35.5 kg.

New

Spring compression workstation

DLS.302

- Comprises :

- 1 workstation DLS.300.
- 1 mechanical compressor body U.89M2.
- 1 multi-diameter fork set U.89JMA.

- Closed height 1,410, open height 1,726 mm, plan size 500 x 470 mm.
- Supplied with installation and operating instructions, vehicle application guide.

⚖ : 46.5 kg.

New

Spring compression workstation

DLS.303

- Comprises :

- 1 workstation DLS.300.
- 1 mechanical compressor body U.89M2.
- 3 sets of forks : U.89J1, U.89J2, U.89J3.

- Closed height 1,410, open height 1,726 mm, plan size 500 x 470 mm.
- Supplied with installation and operating instructions, vehicle application guide.

⚖ : 54.1 kg.

New

Heavy-duty spring compression workstation

DLS.305

• Comprises :
- 1 workstation DLS.300.
- 1 hydraulic compressor body U.89H2.
- 1 hydraulic pump WV.M401.
- 1 protective plate for pump DLS.300-04 control.
- 1 multi-diameter fork set U.89JMA.

• Closed height 1,410, open height 1,726 mm, plan size 500 x 470 mm.
• Supplied with installation and operating instructions, vehicle application guide.
⚖ : 53.5 kg.

Compressor holder

DLS.300-03

• For attaching a compressor type U.89M or U.89H to workstation DLS.300.
• For bodies of max. 55 mm diameter.
⚖ : 700 g.

Special workbench vice

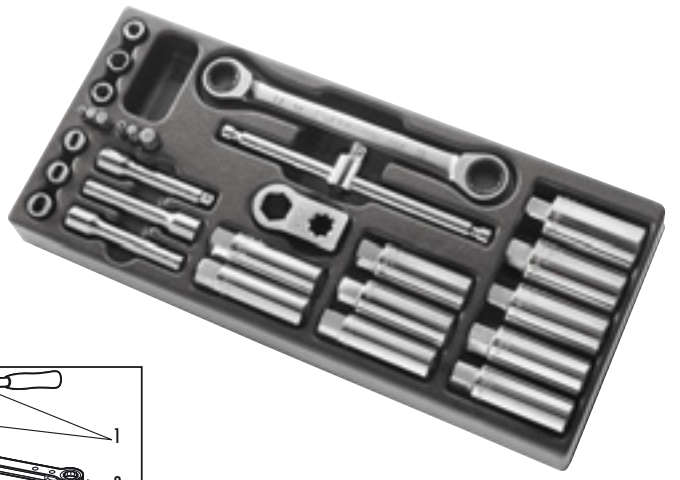
D.22B

• For holding struts vertically on the workbench.
• Zinc finish.
• Dimensions : 410 x 190 mm.
• ∅ max. : 65 mm.
⚖ : 3.535 kg.

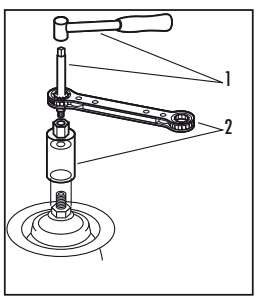
Tools for shock absorbers

Set of 28 tools in modules for MacPherson strut rods

D.83C



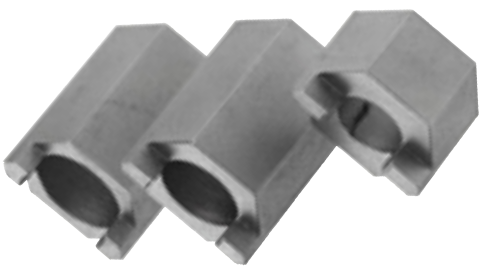
• Comprising :
- 10 long-reach sockets (14, 15, 16, 17, 18, 19, 21, 22, 24 mm).
- Slotted bits (3 No.) 5, 6 and 8 mm.
- 6-point sockets (3 No.) 8, 9 and 11 mm.
- 1 magnetic bit-holder extension 7.94 mm.
- 1 bit-holder extension 6.35 mm.
- 1extension with 8 mm square drive.
- 5 bits : EH 6, 7 and 8 mm - EXR.140 and EX.245 - XZN EV.212.
- 1 handle J.120.
- 1 wrench 68.17x19.
- 1 torque wrench adaptor.



• For holding the strut rod while tightening or loosening of the nut.
• For tightening with a torque wrench to a specified torque.
• Tool set can be extended to include other bits (Torx, XZN, 6- point).
• Supplied in modules for placing in the drawer of a roller cabinet or workbench. Empty spaces for additional tools.
• Presentation : Tray PL.647.
• Module XL.

Set of lug adaptors for VAG struts

D.84



• For loosening and tightening notched nuts on strut rods.
>> AUDI : 80/90.
>> SEAT : Terra/Ibiza/Marbella/Toledo/Cordoba.
>> VOLKSWAGEN : Polo/Golf/Jetta/Passat/Vento
⚖ : 70 g.

Wheel removal and inspection

S.208 - Tightening torque

TORQUE-TIGHTENING OF WHEEL NUTS : ESSENTIAL FOR SAFETY

It is essential that wheel nuts are tightened to the manufacturers' recommended torques. Failure to do so can have the following consequences :

- *Risk of deformation of screws or studs, the hub or the rim, possibly resulting in component failure.*
- *Problems removing the wheel with the OEM tools provided.*

Wheel nut tightening module

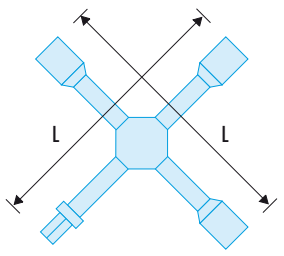
MOD.208

- 77AT0D Cross brace.
- S.208-200 Torque wrench 40-200 Nm.
- Long-reach impact sockets : NSB.17 - 19 - 21 mm.
- 6-point sockets : SH.17 - 19 - 21.
- Tray PL.337

⚖ : 5.47 kg.

Cross braces

- Designed for removing wheel nuts on cars, light commercials and heavy goods vehicles.
- Replaceable bit on wrenches featuring a square drive.



	∅ mm	>>	☐ "	L mm	⚖ kg
77A.TO	17/19/23		1/2	400	1,75
77A.TO2	17/19/21		1/2	400	1,75
77A.TOD	17/19/22		1/2	400	1,75
77A.PL1	24/27/30/32		-	700	4,65
77A.PL2	24/27/33		3/4	700	4,58
77A.PL2D	24/27/32		3/4	700	4,60

	Description
77.P1	Spare male 3/4" square bit
77.T1	Spare male 1/2" square bit

Air-line connector and gauge

U.179A

- To NF R 63-302 specifications.
- Pressure range : 0 to 12 bar.
- Impact-resistant rubber casing.
- Dimensions : 250 x 120 x 80 mm.

⚖ : 850 g.

Composite 1/2" impact wrench

NS.1800F

- Lightweight aluminium/composite body.
- Pressure and direction control knob.
- Double-hammer mechanism.
- Free speed : 8,000 rpm.
- Recommended dynamic torque : 65 - 550 Nm.
- Maximum dynamic torque : 813 Nm.
- Guaranteed static torque : 380 Nm.
- Impact rate (per minute) : 1,200.
- Average air consumption : 138 l/min.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.

	a mm	b mm	c mm	⚖ kg
NS.1800F	180	183	69	2,25

19.2V battery-powered 1/2" impact wrench

CL.C1913

- Always available for quick on-site repairs.
- Powerful, reliable latest generation 19.2 V motor.
- Trigger speed adjustment and power control.
- Accessible, removable carbon brushes enabling simple, immediate repair.
- Integral lighting system for perfect visibility in poorly lit working areas
- Battery locks onto the machine by means of a sliding rail system ensuring reliability, strength and durability of electrical contacts.
- Ni-MH batteries.
- Integral elastomer bumpers.
- For use with FACOM NS Impact series sockets.

Contents of set CL.C1913
- Impact wrench : CL.C1913D - Universal charger : CL.CH919
- 2 Ni-MH batteries : CL.BA19 - Operating instructions

- Weight of machine + battery : 3.1 kg.

	◰ "	a mm	b mm	c mm	⚖ kg
CL.C1913	1/2	252	199	75,5	6,2

Set of long-reach thin wall sockets for alloy wheels

NSAL.3

- Comprising :

- 3 impact sockets 17, 19, 21 mm.
- Plastic coated to protect varnished alloys against impact damage.
- The 3 sizes are immediately identifiable.
- Supplied with a set of additional plastic protective sleeves (red, blue, yellow).

⚖ : 775 g.

	Description
NSAL.3-01	Set of 3 protective plastic sleeves

Air-hose reel

N.708

- Hose stop and swivel bracket.
- Working pressure : up to 12 bar.

∅ Hose bore : 8 mm.

- Hose length : 7.5 m.
- Dimensions : 302 x 285 x 135 mm.

⚖ : 3.5 kg.

Valve core remover

D.93

- The swivelling head and fluted body derived from the Facom Micro-tech screwdriver simplifies valve core removal and fitting.
- Length 102 mm.

⚖ : 15 g.

D.3 tyre-removers

- Double Tee section for added strength.
- Zinc and chrome-plated finish.

	L mm	⚖ g
D.3-300	300	200
D.3-400	400	400
D.3-500	500	570
D.3-600	600	900

Wheel balancing

Zamak wheel-balancing weights (lead-free)

COMPLIANT WITH THE LEGISLATION

Since 1st July 2005, the use of lead is forbidden for the manufacture of wheel balancing weights (with the exception of motorcycles, vintage cars and vehicles having a maximum authorised weight of 3.5 T or more)

Zamak weights

- *Zinc/aluminium alloy.*

Small service boxes

- *Pre-divided boxes of 50 and 25 weights. Quantities adapted to the needs of repair workshops, avoiding overstocking.*

ERZ Multi-purpose balancing weights for steel rims

• New profile suitable for attaching to the main types of steel rim (semi-rolled and rolled edges, flat edge rims).
• 3 times less weights to be stocked.
• Zamac (zinc/aluminium alloy) weights
• Compliant with legislations applied 1/07/05.
• Small service boxes (pre-divided boxes of 50 and 25 weights).
• Quantities adapted to the needs of repair workshops, avoiding overstocking.
-5• 2004 equivalent product : ERA, ELA, ERCA.

⇉	Case	ΔΔ g
ERZ.5	50	5
ERZ.10	50	10
ERZ.15	50	15
ERZ.20	50	20
ERZ.25	50	25
ERZ.30	50	30
ERZ.35	25	35
ERZ.40	25	40

EAFPZ Plastic-coated weights for alloy rims (French : PSA, Renault)

• Plastic-coated zamak weights with integral clip, for PSA and Renault alloy rims.
• The coating (silver epoxy paint) ensures that the weights lastingly retain their untarnished appearance when mounted on varnished alloy rims.
• 2004 equivalent product : EAFP.10 15 20 25 30 35 40.

⇉	Case	ΔΔ g
EAFPZ.10	25	10
EAFPZ.15	25	15
EAFPZ.20	25	20
EAFPZ.25	25	25
EAFPZ.30	25	30
EAFPZ.35	25	35
EAFPZ.40	25	40

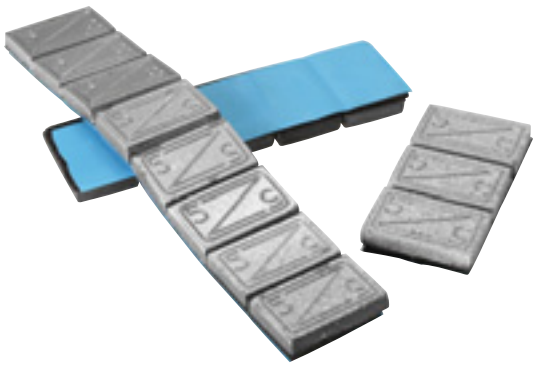
EADPZ Plastic-coated weights for flat alloy rims

• "Plastic-coated" zamac weights with integral clip, for flat-edged alloy rims (numerous applications on German, Italian vehicles, etc., except PSA, Renault and certain Asian manufacturers.).
• The coating (silver epoxy paint) ensures that the weights lastingly retain their untarnished appearance when mounted on varnished alloy rims.
• 2004 equivalent product : EADP.10 15 20 25 30 35 40.

⇉	Case	ΔΔ g
EADPZ.5	25	5
EADPZ.10	25	10
EADPZ.15	25	15
EADPZ.20	25	20
EADPZ.25	25	25
EADPZ.30	25	30
EADPZ.35	25	35

Self-adhesive weights for alloy rims

EGCAZ.40-25

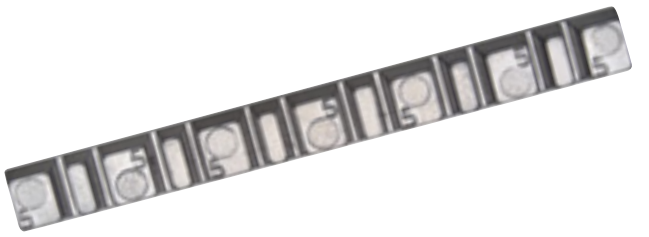


- Zamac (zinc/aluminium alloy) weights
- Comply with the legislation applying since 1/07/05.
- Extra flat (4.2 mm) weights. For concealing the wheel balancing weights without risk of friction against the brake calliper.
- 180°C high temperature adhesive. Avoids weights debonding even under the severest conditions of use.
- Small packaging (pre-divided boxes of twenty five 40g bars, each made up of individual 5g weights). Quantities adapted to the needs of repair workshops, avoiding overstocking.
- 2004 equivalent product : EGCA.60-20.

⇉	Case	⚖ g
EGCAZ.40-25	25	100

Weights - box of 20 x 50 g bars for motorcycles

EGCM.50-20



- For motorcycle wheels.
- Aluminium-coloured plastic-coated.
- Special high-temperature resistant self-adhesive backing.

⇉	Case	⚖ g
EGCM.50-20	20	50

Wall-mounted weight storage unit

2144

- For storing 32 boxes of weights in 4 rows of 8 boxes (the complete car range occupies 2 storage units).
- Storage units can be mounted side-by-side or one above the other..
- Supplied with a set of fixing screws and plugs.
- Supplied with a set of self-adhesive labels for customizing the storage unit.
- The labels simplify identification of the different types weights.
- Storage unit can also hold plastic boxes CKS.86 or CKS.87 (110 mm wide).

⚖ : 9 kg.

⇉	Sizes	⚖ kg
2144A	99 x 51 x 12,5 cm	13

Wheel weight pliers

UA.444A

- For fitting and removing wheel-balance weights as well as opening or crimping retaining clips.
- Sheathed and phosphate finish..
- Length 250 mm.

⚖ : 470 g.

Steering geometry, ball joints

Camber adjuster

DLS.30

- Allows accurate camber setting on Volkswagen vehicles.
- Ideal for use with fast wrench 40R.20.

>> VOLKSWAGEN Golf/Vento/Passat/up to "97; Corrado/Polo/from "95; Caddy from '96; Polo Classic from '96.

- Length 145 to 210 mm.

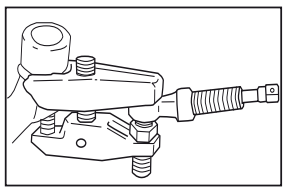
⚖ : 630 g.

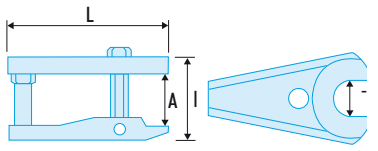
U.16 Ball-joint separators

- For removing steering and suspension ball-joints.
- Supplied with 2 spare shear pins.

	Ø mm	A mm	L mm	l mm	⚖ kg
U.16A18	16	45	100	50	0,635
U.16B	22	45	100	56	0,665
U.16B32	32	80	158	75	2,452
U.16A45	45	80	158	90	2,543

	Description
U.16-05J3	Set of 3 pins
U.16A45-05J3	Set of 3 shear pins (for U.16A32 and U.16-45)

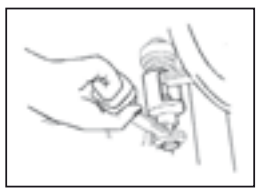


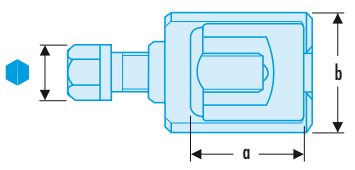


U.17 ball-joint separators

- For splitting steering ball-joints.
- Burnished and chrome finish.

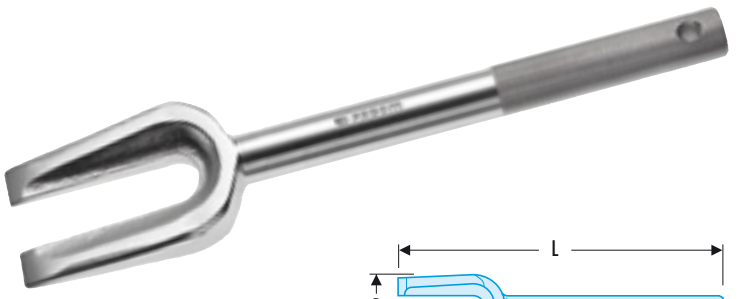
	Capacity Ø mm	Ø mm	a mm	b mm	⚖ g
U.17-16	16-18	19	40	40	410
U.17-20	20-22	19	40	40	425

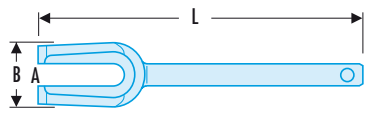




D.98 Fork separators

	A mm	B mm	L mm	⚖ kg
D.98A18	18	65	315	1,1
D.98A22	22	65	315	1,1





Lower ball-joint socket

D.138

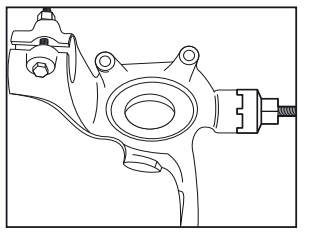
- Shaped for castellated nuts.
- 32 mm hexagon drive.
- Torque to 250 N.m.

>> CITROËN BX/Xsara/XM/Xantia.

>> PEUGEOT 306/309/405/406.

Ø 52 x 48 mm.

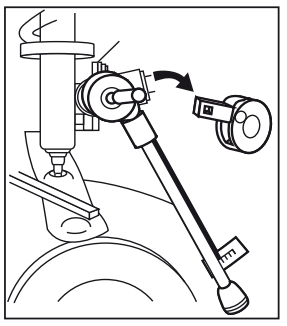
⚖ : 230 g.



Track-rod end release tools

• Square drive : ☐ 3/8".

	Inside Ø mm	Ø mm	⚖ g
T.275A	41	75 x 135 x 25	590
T.276A	36	70 x 130 x 25	565

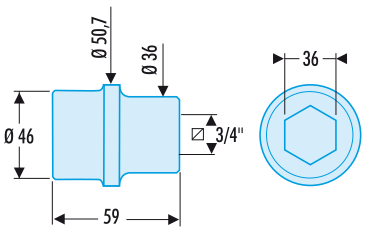


Hub

Hub-nut protractor socket

D.143A

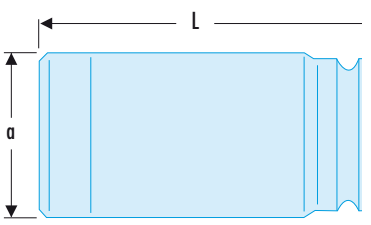
• Drive : ☐ 3/4".
• 36 mm six-point.
⚖ : 415 g.



36 mm 6-point hub-nut socket

NK.143

• For removing hub nuts.
• Long-reach thin-wall impact socket.
>> FIAT Lancia, ALFA ROMEO.
• Length : 100 mm.
• Square drive : ☐ 3/4".
• Diameter : 46.8 mm.
⚖ : 680 g.



Transmission

Driveshaft tie pliers

DM.14

• For crimping driveshaft bellows ties.
• Suitable for Oetiker fittings
• Dimensions : 280 x 50 x 20 mm.
⚖ : 475 g.

Fitting tool

T.84

• For fitting driveshaft spiders.
>> RENAULT R19/R21/R25. VOLVO 460
• Length 315 mm.
⚖ : 235 g.

Metal tie kit

DM.39A

• Comprising :
- DM.39A1 Tie pliers.
- DM.39A2 Dispenser.
- DM.39A3 Strip.
- DM.39A4 Bucklebag.
• Supplied in a plastic case 265 x 225 x 50 mm.
⚖ : 1.2 kg.

	Description
DM.39A3	Strip
DM.39-3-10	Roll of stainless steel
DM.39A4	Bucklebag.
DM.39-4-10	Pack of 100 fasteners

Tie pliers

DM.39A1

• Pliers for cutting and stretching the strip.
• Forms part of the metal tie set DM.39A.

Stripping

240 Special bodywork tools

TIME-SAVING TOOLS AT EVERY STAGE

Stripping, cutting, forming, assembling, painting, windshields, pneumatics.

In order to improve your everyday working life, Facom offers customised solutions for :

- *Saving time.*
- *Optimising storage.*

You choose the solution that best meets your needs :

- *Package of 6 product references including our panel-beating/body repair workstation with a selection of 92 standard tools (wrenches, sockets, rules, hammers, etc.) and special bodywork tools (dressers, dollies, spoons, lock-grip pliers, etc.), together with the necessary trays for optimising storage and improving your everyday working life.*

CR.T4 • ***Panel beating- body repair workstation.***

(see page 803 for details).

CR.CM92 • ***92-piece bodywork tool set.***

(see next page for details)

PL.330 ***Plier tray***
PL.333 ***Hammer tool tray***
PL.396 ***Forming tool tray***
PL.630 ***Milled file tray.***

4 x

- *Each of the above 6 references can be ordered separately.*

Supports

Component storage stand

REDUCE OPERATOR MOVEMENTS,

INVESTMENT RECOVERED IN 3 MONTHS,

OPTIMISE YOUR STORAGE.

- *For storing bonnets, tailgates, wheels exhaust systems, etc.*
- *Easy to manoeuvre (4 castor wheels).*
- *Compact design.*
- *Guarantees efficient organisation.*
- *Avoids lost parts, saves time.*

Bodywork component storage stand

CR.S1

- Maximum supported weight 150 kg.
- Incorporates anti-slide stops & gravity stabilizer
- Dimensions : 90 x 60 x 190 cm.
- 3 year guarantee.

⚖ : 41 kg.

Mechanical component storage stand

CR.S11

- 4 castor wheels for easy manoeuvring around the vehicle.
- Storage of removed components on 4 levels for easy identification of the order of reassembly.
- 2 fluid storage containers (water, oil) for a clean workshop.
- 2 plastic bins for fasteners.
- Dimensions : 1,650 x 900 x 605 mm.

⚖ : 40 kg.

CR.S5 DOR INSTALLATION AND REMOVAL

Saloons, light commercial vehicles and 4x4s

VERSATILE
- *Suitable for positioning any type of door.*
- *Work with or without glazing.*
- *Fully adjustable.*

PRECISE
- *Progressive electric motor control providing millimetre precision.*
- *4 castor wheels, 2 with brakes for total manoeuvrability.*

PRACTICAL
- *Motor fitted with a remote control, allowing the door to be guided while raising or lowering the support.*
- *Compact design for easy storage.*
- *Foam-covered supports to protect paintwork.*
- *Easy access to fuse for added safety.*
- *Supports 150 kg.*

EASY, PRECISE OPERATION

INFORMATION

Door installation and removal sometimes involves carrying heavy loads. The electric stand avoids this and allows you to comply with labour legislation that advocates the reduction of physical effort, especially that liable to cause back injury The electric stand will help improve working conditions in your workshop while enabling one person to work on the doors on their own.

Electric door removal and installation stand

CR.S5

- Maximum supported weight by CR.S5 : 150 kg.
- Works with or without glazing.
- Suitable for saloons, light commercial vehicles and 4x4 (using CR.S5UTL).
- Millimetre precision.
- Safety features : easy-to-reach fuses, 2 wheels with brakes, no risk of scratching (protective foam).
- The stand takes the load for the worker.
- Small footprint.
- 220 V mains powered electric motor with easy-to-reach fuse.
- Dimensions : 52 x 90 x 120.5 cm.
- 3 year guarantee.

⚖ : 27 kg.

	Description
CR.S5UTL	Accessory for sliding side doors

Heavy-duty support stand for engines, gearboxes, etc.

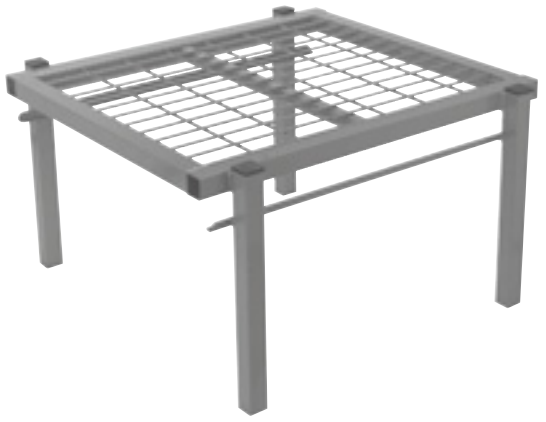
CR.S6

• Modular support : numerous applications in bodywork and mechanical workshops.
• Raised stand (CR.S9) transforms support into a waist-height work table
• 4 castor wheels for easy manoeuvrability.
• Allows high pressure jetting before reassembly.
• Compact design.
• Sliding, removable containers allow recovery of liquids.
• 3 year guarantee.
• Supports 450 kg.

Raised stand for CR.S6

CR.S9

• Modular support : numerous applications in bodywork and mechanical workshops.
• Raised stand transforms support (CR.S6) into a waist-height work table
• Allows high pressure jetting before reassembly.
• Compact design.
• 3 year guarantee.
• Supports 450 kg.



Support for moving vehicles with no steering gear

CR.S8

• Maximum supported weight by CR.S8 : 450 kg.
• Easy to install, ready to use.
• Width adjustment (110 to 160) to suit vehicle.
• Axle supported on a rubber-coated pivoting saddle.
• Easy to move (4 castor wheels, good load distribution).
• Compact design.
• Dimensions : (110 to 160) x 50 x 30 cm.
• 3 year guarantee.
⚖ : 21 kg.

Mobile support

CR.S12

• or supporting 1/2 front or rear axles having suffered a locked wheel or a flat tyre.
• The 4 castor wheels allow the vehicle to be easily moved.
• Maximum load : 600 kg.
• Dimensions : 580 x 370 x 170 mm.
⚖ : 2 kg.

Stripping tools

Trim clip removal pliers

CR.D1

- For quickly removing staples, clips, door panels, facia and trim supports etc. without damage.
- Wide nose for undoing facings without risk of breaking or tearing panels.
- Finger guard to avoid injury.
- Designed for accessing difficult-to-reach places.
- Black head, chrome pliers.
- Length : 240 mm.

⚖ : 190 g.

Trim removal tool

D.115A

- For removing interior door trimmings without damage.
- Dimensions : 155 x 32 x 45 mm.

⚖ : 106 g.

Fastener removal tool

D.137

- For removing plastic fasteners securing carpets, trim and panels.
- Filter diameter :

∅ head : 9 to 22 mm.

∅ body : 4 to 9 mm.

- Dimensions : 200 x 28 x 40 mm.

⚖ : 110 g.

D.29 Wrenches for difficult access

- Double angled and curved wrenches for improved manoeuvrability on boot, door or bonnet hinges.
- Compact design allows access where conventional bits and wrenches are unsuitable.

	-	L mm	⚖ g
D.29X40	Torx®	283	300
D.29X45	Torx®	283	300
D.29V10	XZN	283	300
D.29H8	6	283	300
D.29-10	12	280	165
D.29-12	12	280	165
D.29-13	12	280	165
D.29-16	12	280	165

Set of 1/4" and 1/2" drive sockets and Torx® driver bits

RSX.19A

• Comprising :
Plastic case.
BP.102 : 204 x 122 x 52 mm.
Tray PL.393A.
⚖ : 620 g.

New

Plastic component removal tool kit

CR.D5

• Set of 5 tools for removing or unclipping plastic components (dashboard, door, boot, external trim, snap rings,etc.).
• Supplied in blister pack.
⚖ : 275 g.

Power tools

Heat gun

E.2005

• Electronic temperature control 60 to 600°C.
• Force : 2000 W.
• Air supply : power supply.
• Air flow rate (2 speeds) : 300 and 500 l/min.
• VDE approved.
• Supplied with 2 nozzles : E.2002B1 and E.2002B3.
• ∅ 72 x 80 x 330 mm.
E.2002B1 : Distribution nozzle
(⚖ 58 g, 75 mm (L) x 75 mm (h) x 33.7 mm (∅)).
E.2002B2 : Cross-flow nozzle
(⚖ 56 g, 75 mm (L) x 80 mm (h) x 33.7 mm (∅)).
E.2002B3 : Reflector nozzle
(⚖ 32 g, 33 mm (L) x 60 mm (h) x 33.7 mm (∅)).
E.2002B4 : Concentrator nozzle
(⚖ 30 g, 20 mm (∅x 52 mm (h) x 33.7 mm (∅)).
⚖ : 770 g.

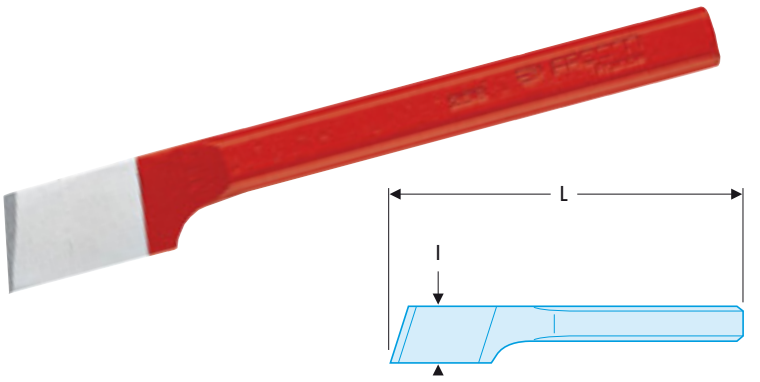
Cutting - drilling

Chisels

Side and end-cutting chisel - 200 mm long

258

- Paint finish
- Head treated against mushrooming.
- Regrindable tip.
- Forged in chrome-vanadium steels, tip hardened to 57 HRc.

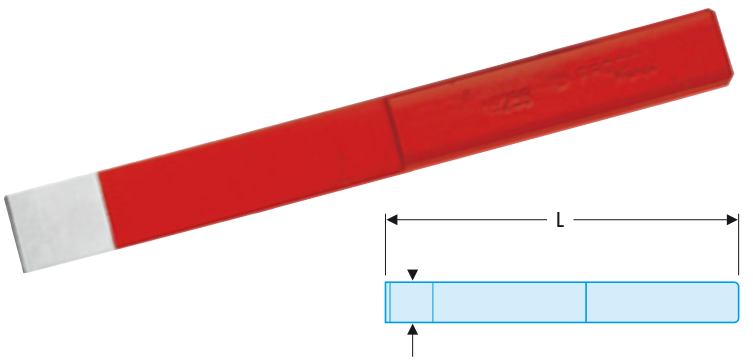


	l mm	L mm	⚖ g
258	25	200	220

Slim-profile chisel - 235 mm long

259

- Paint finish
- Forged in chrome-vanadium steels, tip hardened to 57 HRc.

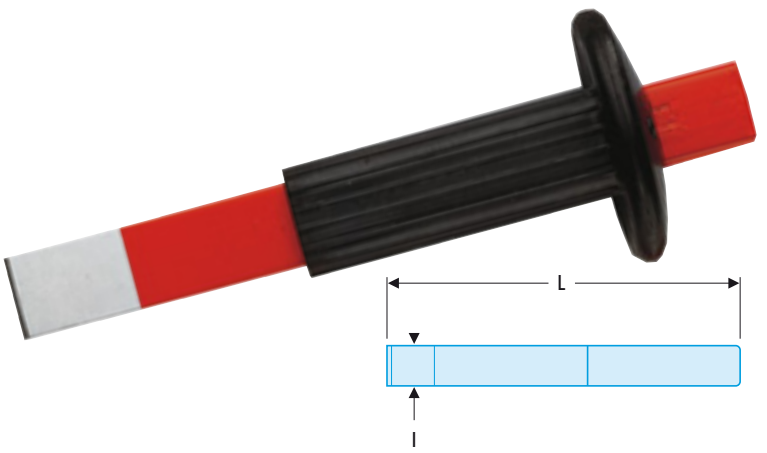


	l mm	L mm	⚖ g
259	26	235	240

Slim-profile chisel with guard

259.P

- Forged in chrome-vanadium steels, tip hardened to 57 HRc.
- ∅ Guard 85 mm.
- Paint finish

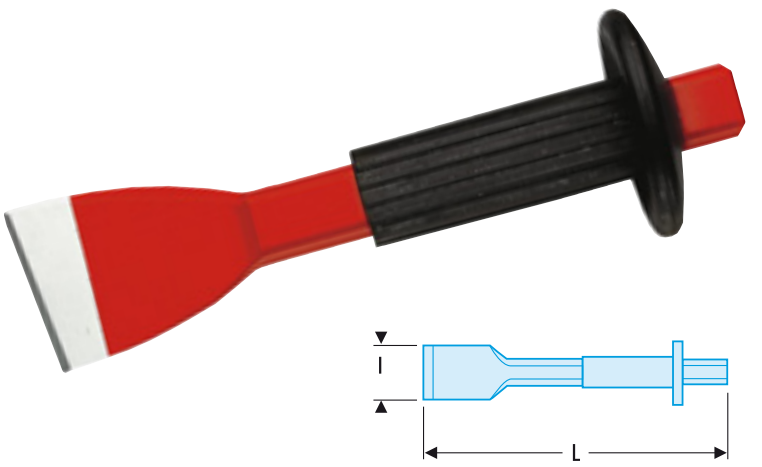


	l mm	L mm	⚖ g
259.P	26	235	350

Wide chisel with guard - 250 mm long

260.P

- Paint finish
- Head treated against mushrooming.
- Regrindable tip.
- Forged in chrome-vanadium steels, tip hardened to 57 HRc.
- ∅ Guard : 85 mm.



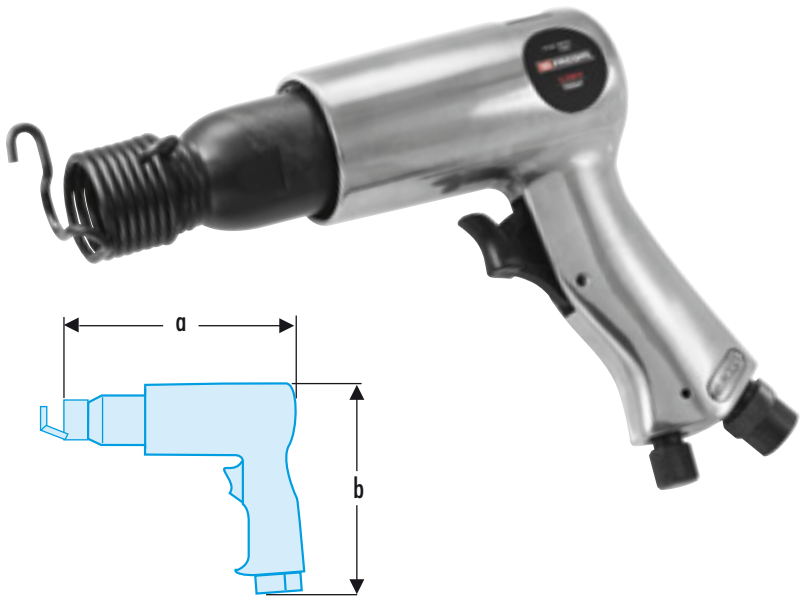
	l mm	L mm	⚖ g
260.P	60	250	630

Power chisels

Power chisel with hexagonal shank

V.320FH

- Built-in power regulator.
- Impact rate 3,000/min.
- Working pressure : 6.2 bars.
- Average air consumption : 280 l/min.
- Air inlet thread : 1/4".
- Power : 0.8 kW.
- Piston stroke : 67 mm.



	a mm	b mm	⚖ kg
V.320FH	171	160	1,58

	Description
V.320HA1	Straight chisel
V.320HA2	Punch (hexagonal shank)
V.320HA3	Weld point cutter (hexagonal shank)
V.320HA4	Sheet metal cutter (hexagonal shank)
V.320HA5	Double edge sheet-metal cutter (hexagonal shank)
V.320RRN1	Spring

Set containing power chisel V.320FH

V.321AH

- Comprising :

- 1 Sheet-metal cutter.
- 1 double edge sheet-metal cutter.
- 1 pipe cutter.
- 1 weld point cutter.
- 1 straight chisel.
- 1 punch.
- 1 ribbed air hose connector 1/4".

Sabre saws

Sabre saw

V.770F

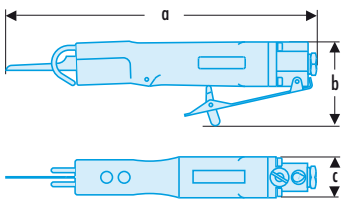
- Seamless straight and curved cutting.
- Suitable for flat and convex surfaces.
- Adjustable blade guide.
- Supplied with 3 x 10 teeth/cm blades.

and 3 x 12 teeth/cm blades.

- Strokes per minute : 10,000.
- Average air consumption 220 l/min.
- Air inlet thread : 1/4".
- Ø int. air hose : 10 mm.

	a mm	b mm	c mm	⚖ kg
V.770F	229	75	36	0,7

	Description
V.770A1	Jeu de 6 lames à denture fine (12 dents/cm)
V.770A2	Jeu de 6 lames à denture standard (10 dents/cm)



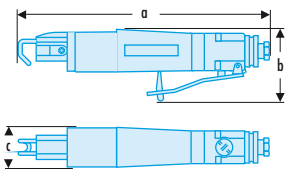
Super-duty sabre saw

V.775F

- Suitable for intensive use.
- Anti-vibration rubber handle.
- Air exhaust in handle.
- Supplied with 3 x 10 teeth/cm blades.

and 3 x 12 teeth/cm blades.

- Strokes per minute : 5,750.
- Average air consumption : 720 l/min.
- Air inlet thread : 1/4".
- ∅ int. air hose : 10 mm.



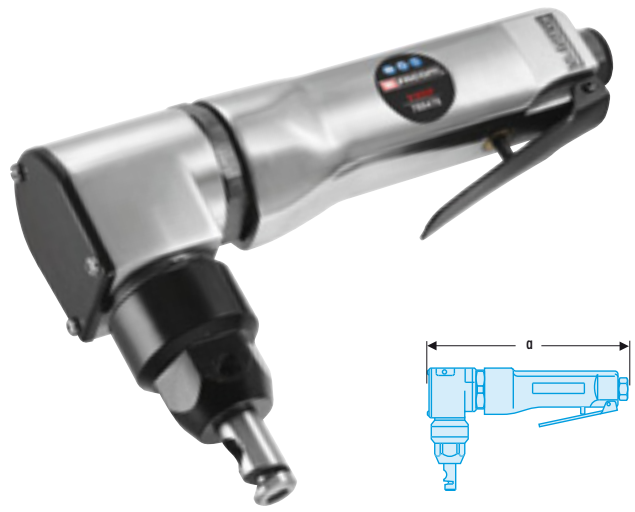
	Description
V.770A1	Set of 6 blades - fine (12 teeth/cm))
V.770A2	Set of 6 blades - standard (10 teeth/cm)

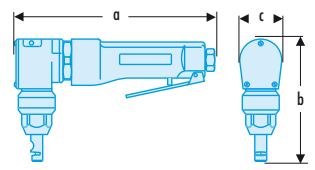
Nibbler

Nibbler

V.850F

- Lever throttle for precise control and low-speed start.
- Can produce rounded edges up to 6.5 mm radius.
- Max. thickness 1.2 mm - speed 1.8 m/min.
- Strokes per minute : 4,300.
- Average air consumption : 110 l/min.
- Air inlet thread : 1/4".
- ∅ int. air hose : 10 mm.





	a mm	b mm	c mm	⚖ kg
V.850F	179	118	40,5	0,9

	Description
V.850KR2	Kit

Milling and cutting tools

End mills

- Self-centring, non-slip.
- Can be reground.
- Available in sets of 2 same ∅ (J2) or 3 drills of different ∅ (J3).

	∅ mm		L mm	⚖ g
225.6J2	6	2	66	36
225.8J2	8	2	77	50
225.10J2	10	2	88	90
225.J3	6-8-10	3		90

Three-square scraper

231

- High quality steel blade, polished chrome finish.
- Varnished wood handle.
- Shank length : 200 mm.

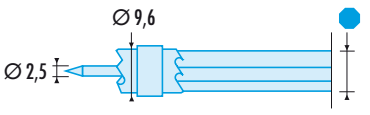
⚖ : 180 g.

Air tools

Spot weld cutter

230

• Fitted to a drill, this tool is used for separating spot-welded panels.
• Comprises bit holder, reversible mill and pilot tip.
• Not compatible with V.781B.
• Length : 70 mm.
⚖ : 23 g.



	Description	⚖ g
230.A1J5	Set of 5 spare mills	30

Set of mills

230.J1

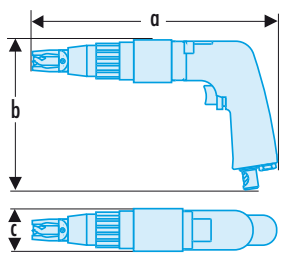
• Comprising 1 kit 230, 2 pilot tips and 10 reversible mills..
• Dimensions : 115 x 65 x 22 mm.
⚖ : 90 g.

	Description	⚖ g
230.A1J5	Set of 5 spare mills	30

Spot weld remover

V.781

• Air connection (female thread) : 1/4".
• Recommended air hose (Ø int.) : 8 mm.
• Recommended fitting (thread - Ø int.) : 1/4"-6.
• Pressure : 6.3 bar.
• Speed of rotation : 1,800 rpm.
• Average air consumption : 460 l/min.
• Noise level (dB(A)) : 74.1.
• Vibration level : < 2.5m/s².
• Milling cutter diameter : 8 mm.
• For accurate removal of spot welds.
• Caution : not to be used with a stop.
• Avoids damage to the second layer of metal.
• Also takes 8.2 mm milling cutters.
• Supplied with 1 x 8 mm milling cutter.
• Each milling reference corresponds to a single milling cutter.
Minimum order per reference = 5.



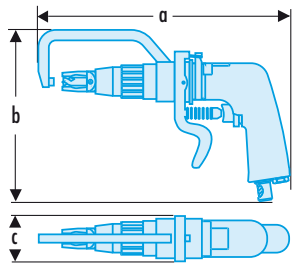
	a mm	b mm	c mm	⚖ kg
V.781	242	160	46	1,35

	Description
V.781A1	Milling cutter Ø 8 mm

Spot weld remover with stop

V.781B

- Air connection (female thread) : 1/4".
- Recommended air hose (Ø int.) : 8 mm.
- Recommended fitting (thread - Ø int.) : 1/4"-6.
- Pressure : 6.3 bar.
- Speed of rotation : 1,800 rpm.
- Average air consumption : 460 l/min.
- Noise level (dB(A)) : 74; 1.
- Vibration level : < 2.5 m/s².
- Milling cutter diameter : 8 mm.
- For accurate removal of spot welds.
- Fitted with a stop to hold the workpiece in position without slipping.
- Also takes 8.2 mm milling cutters.
- Supplied with 1 milling cutter. Ø 8 mm.
- Each milling reference corresponds to a single milling cutter.
- Minimum order per reference = 5.



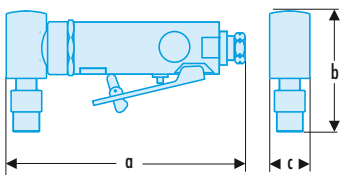
	a mm	b mm	c mm	ΔΔ kg
V.781B	270	198	53	1,6

	Description
V.781A1	Milling cutter Ø 8 mm

Angle grinder - 6 mm collet

V.252

- Angle grinder for grinding wheels with shank.
- For cutting and cleaning.
- Compact motor with sturdy blades.
- Compact angled head for difficult-to-reach places.
- Exhaust air duct with integral air supply pipe.
- Supplied with 6 mm collet and 2 open-end wrenches.
- Air connection (female thread) : 1/4".
- Recommended air hose (Ø int.) : 8 mm.
- Recommended fitting (thread - Ø int.) : 1/4"-6.
- Pressure : 6.3 bar.
- Speed of rotation : 18,000 rpm.
- Average air consumption : 300 l/min.
- Noise level (dB(A)) : 83.
- Vibration level : < 2.5 m/s².
- Collet : 6 mm.



	a mm	b mm	c mm	ΔΔ g
V.347	158	78	27	400

Miscellaneous

Steel wire brush

270A.MA

- 280 x 34 x 60 mm.

ΔΔ : 150 g.

"Standard" kit

245.J1

- For making round gaskets.
- Cutting capacity : Ø 3 to 30 mm using a punch and Ø 56 to 330 mm using calipers.
- Supplied in a plastic case BP.115 and tray PL.100A.
- Dimensions 332 x 143 x 67 mm.

ΔΔ : 1.8 kg.

Forming

Bodywork repair workstation

EFFICIENT, MORE COMFORTABLE STORAGE

Designed to keep everything close to hand, save time and avoid losing tools.

GALVANIZED STEEL WORKTOP
- *Easy to maintain.*
- *High strength.*

MAXIMUM STORAGE
- *Panel with special system for securing hammers and dressers.*
- *Other tools can be freely hung using the CKS system.*
- *2 pull-out trays giving access to a "bin" for storing heavy tools, such as dollies and spoons, etc. Trays and bin fitted with a non-slipmat.*
- *3 drawers : (2 x 60 mm + 1 x 130 mm) and bin for storing bulky items and pneumatic tools.*

SAFETY
- *Central key locking.*
- *Drawer fronts fitted with a catch to prevent accidental opening.*

CORNER BUMPERS
- *To avoid damage to vehicles in case of accidental contact*

Compatible with the FACOM modular storage system

MANOEUVRABILITY
- *4 large diameter wheels : 2 fixed and 2 castors, 1 with brake.*

COMFORT
- *Working height*
- *Ergonomic handle.*
- *Lid fitted with gas springs.*

Supplied without tools and consumables

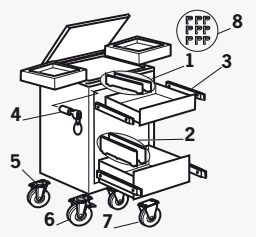
Bodywork repair workstation

CR.T1PB

Comprising :
• A lid :
- containing a panel fitted with a system for securing dressers and hammers.
- PK perforations for freely hanging other tools.
- 2 gas springs for comfort of use.
• 2 trays that pull out sideways to reveal a large bin for storing heavier tools such as dollies and spoons. The bottom of the trays and the bin are fitted with non-slip mats.
• 3 drawers (2 x 60 mm + 1 x 130 mm) compatible with the Facom modular storage system and 1 bin drawer (270 mm high) for storing bulky items and pneumatic tools.
• High resistance, easy-to-maintain galvanized steel worktop.
• Safe : Central key locking of lid and drawers.
• Corner bumpers to avoid damage to vehicles in case of accidental contact.
• Manoeuvrability ensured by 4 large diameter wheels, 2 fixed, 2 castors, one with a brake.
• Dimensions : 1,020 x 770 x 460 mm.
⚖ : 76.5 kg.

CR.T4

1	2840.15	5	2092.09
2	2840.16	6	2092.10
3	2840.13	7	2092.11
4	2840.17	8	CRT4.04



92-piece bodywork tool set

CR.CM92

• Details below.

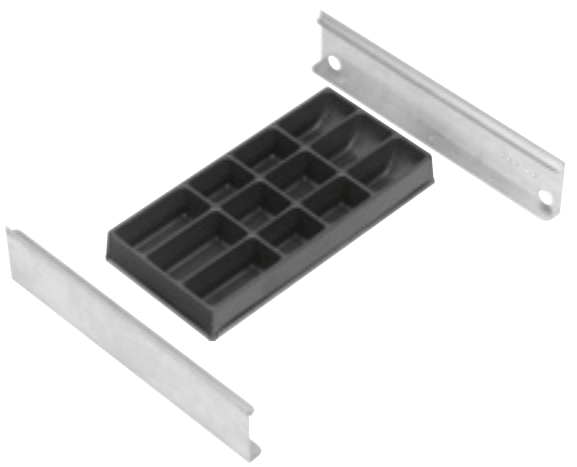
	Qty	Description
40.JE9T	9	Roll-set of combination wrenches 8 to 19 mm N.98A-2
RS.430E	27	Socket set ☑1/4" and 1/2" and accessories (in a case)
AMZ.M1	1	Short bit holder
BP.102	1	Plastic case
ED.T	3	Pozidriv® bits 101-102-103
EH	4	Male bits 103 - 104 - 105 - 106
EP.T	3	Phillips® bits 101 - 102 - 103
ES.T	3	Slotted head screw bits134.5 - 136.5 - 148
EXR	6	Resistorx® 1/4" bits 110 to 140
PL.400A	1	Combination tray E.105APB
180.25CPE	1	Lockable multigrip pliers
192.16CPE	1	"Piano wire" diagonal cutters
185.20CPE	1	Sheathed straight half-round nose pliers
501	1	Long-nose lock-grip pliers
893.316	1	Locking 3 m tape rule
234	1	Scriber
601	1	Hacksaw frame
660A.10	10	Bimetal hacksaw blades
882A	1	Scroll shears
RD.MD200EM	1	Round second-cut file 200 mm
DRD.MD200EM	1	Half-round second-cut file 200 mm
200A.50	1	Riveting hammer

	Qty	Description
208A.32CB	1	Plastic-tip mallet
249.2	1	Drift punch 2 mm
249.4	1	Drift punch 4 mm
256.6	1	Precision centre punch
259.P	1	Slim-profile chisel
861D.RPC	1	Round, flat and convex head hammer
871B.45	1	Slim wedge dolly
861D.30	1	Bumping hammer
866D.32	1	Shrinking hammer
868D.40BOC	1	Curved peen hammer
862D.60	1	Flat dresser
870B	1	Regular dolly
906A	1	Pinch wedge dolly
875.3	1	Long single spoon
895A	1	Short single spoon
518.3	1	Lock-grip pliers
518.4	1	Lock-grip pliers
225.J3	3	End mills
851B	1	Frame for milled files
850.S350	1	Standard file
CR.D10	1	Windshield wiper arm remover
CR.D1	1	Trim clip removal pliers

Drawer kit

CR.A1

• Organization kit for drawers min 130 mm high.
• For storing clips, staples and rivets.
• Includes fixings.
• For workstations CR.T2, CR.T3, CR.T4.
⚖ : 250 g.



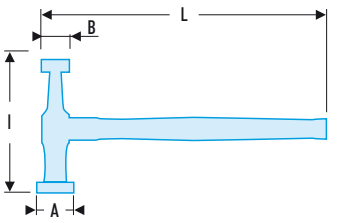
Panel beating hammers

861D Bumping hammers

- Stretching and planishing hammer.
- Convex, round and square heads.
- Secure handle attachment.
- Finely polished planishing surfaces.
- Facetted hickory handle.

	Ø A mm	B mm	I mm	L mm	g
861D.26	25	30	100	310	300
861D.30	30	35	100	310	390

	Description
211.MH26	Spare handle and wedge



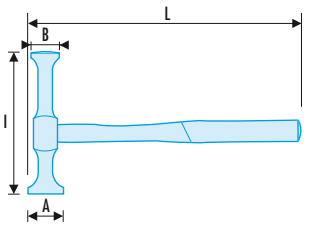
Round, flat and convex head hammer

861D.RPC

- Bumping and planishing hammer.
- Flat, round and convex heads.
- Secure handle attachment.
- Finely polished heads.
- Facetted handle.

	Ø A mm	B mm	I mm	L mm	g
861D.RPC	32	40	150	310	600

	Description
211.MH26	Spare handle and wedge

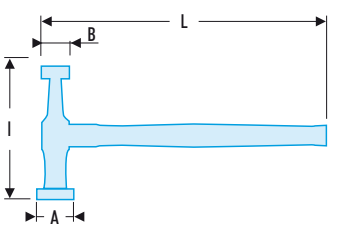


866D Shrinking hammer

- Stretching and planishing hammer.
- 1 round ribbed face, one square smooth face.
- Secure handle attachment.
- Facetted handle.

	Ø A mm	B mm	I mm	L mm	g
866D.32	30	35	100	310	310
866D.41	35	40	100	310	380

	Description
211.MH26	Spare handle and wedge



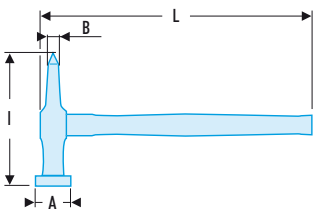
Hammer with round flat face and straight pein

868D.40PLD1

- Planishing hammer.
- 1 round flat face, 1 straight pein.
- Secure handle attachment.
- Finely polished head.
- Facetted handle.

	Ø A mm	B mm	I mm	L mm	g
868D.40PLD1	40	23	140	310	320

	Description
211.MH26	Spare handle and wedge



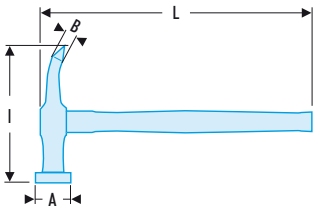
Hammer with round domed face and curved pein

868D.40BOC

- Planishing hammer.
- 1 round domed face, 1 curved pein.
- Secure handle attachment.
- Finely polished head.
- Facetted handle.

	Ø A mm	B mm	I mm	L mm	g
868D.40BOC	40	23	140	310	430

	Description
211.MH26	Spare handle and wedge



Dressers

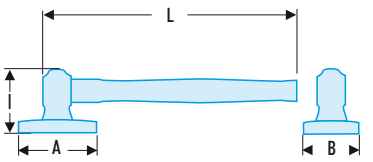
Flat dresser

862D.60

- Flat dresser.
- Secure handle attachment.
- Finely polished head.
- Facetted handle.

	A mm	B mm	I mm	L mm	g
862D.60	50	30	70	295	320

	Description
211.MH26	Spare handle and wedge



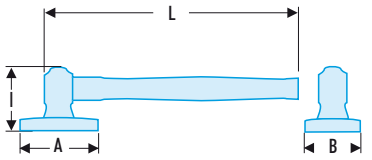
Long-dome dresser

863D.60

- Surface curved lengthwise.
- Secure handle attachment.
- Finely polished head.
- Facetted handle.

	A mm	B mm	I mm	L mm	g
863D.60	50	30	70	295	320

	Description
211.MH26	Spare handle and wedge



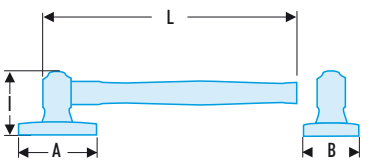
Wide-dome dresser

864D.60

- Surface curved widthwise.
- Secure handle attachment.
- Finely polished head.
- Facetted handle.

	A mm	B mm	I mm	L mm	g
864D.60	50	30	70	295	320

	Description
211.MH26	Spare handle and wedge



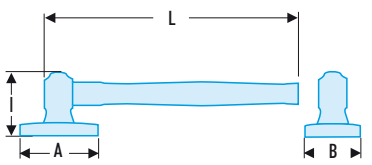
Shrinking dresser

867D

- Ribbed face.
- Secure handle attachment.
- Finely polished head.
- Facetted hickory handle.

	A mm	B mm	I mm	L mm	g
867D	50	30	70	295	310

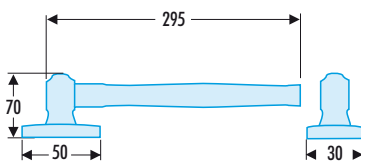
	Description
211.MH26	Spare handle and wedge



Shrinking dresser

867D

- Ribbed face.
- Secure handle attachment.
- Finely polished head.
- Facetted hickory handle.



Dollies

Regular dolly

870A

- Polished finish.
- Dimensions : 88 x 60 x 35 mm.

⚖ : 1.115 kg.

Regular dolly

870B

- Combination of sharp and rounded edges.
- Special surface treatment.
- Laser marking for improved legibility.
- Also available with more rounded edges (870A).
- Dimensions : 90 x 55 x 35 mm.

⚖ : 1.15 Kg.

Flat regular dolly

908A

- Comprising one flat face, one curved face and an angle.
- Special surface treatment.
- Laser marking for improved legibility.
- Dimensions : 90 x 65 x 32 mm.

⚖ : 1.05 Kg.

Slim shaping dolly

909A

- Polished finish.
- Dimensions : 88 x 60 x 23 mm.

⚖ : 750 g.

Slim wedge dolly

871B.45

- Curved face.
- Special surface treatment.
- Laser marking for improved legibility.
- Also available in a thicker version (871B.55).
- Dimensions : 125 x 55 x 37 mm.

⚖ : 900 g.

Wedge dolly

871B.55

- Curved face.
- Special surface treatment.
- Also available in a thinner version (871B.45).
- Dimensions : 140 x 54 x 55 mm.

⚖ : 1.35 kg.

Curved head dolly

872A

- Double-end dolly, large model.
- Polished finish.
- Dimensions : 90 x 70 x125 mm.

⚖ : 1.3 kg.

Dished dolly

874A

- Curved on all sides.
- Dimensions : 106 x 65 x 26 mm.

⚖ : 980 g.

Thin toe dolly

902B

- One curved face and one flat face.
- Polished finish.
- Dimensions : 115 x 56 x 25 mm.

⚖ : 860 g.

Toe dolly

902C

- One curved face and one flat face.
- Special surface treatment.
- Laser marking for improved legibility.
- Dimensions : 125 x 60 x 30 mm.

⚖ : 1.37 Kg.

Pinch wedge dolly

906A

- One flat face and one curved face.
- Special surface treatment.
- Laser marking for improved legibility.
- Dimensions : 130 x 68 x 25 mm.

⚖ : 1.15 Kg.

Spoons and blades

Long single spoon

875.3

- Bumping spoon.
- Polished finish.
- Length : 390 mm.

⚖ : 1.3 kg.

40° single spoon

875.4

- Bumping spoon.
- Polished finish.
- Length : 250 mm.

⚖ : 500 g.

Angled, flat short double spoon

876A

- Double bumping spoon, very cranked at one end.
- Polished finish.
- Also available in a long version (ref : 877A, 510 mm long.).
- Length : 400 mm.

⚖ : 1.7 kg.

Angled and flat double spoon

877A

- Double bumping spoon, very cranked at one end.
- Polished finish.
- Also available in a short version (ref : 876A, 400 mm long.).
- Length : 510 mm.

⚖ : 2.2 kg.

Flat shrinking blade

891A.PL

- Ribbed face.
- Length : 350 mm.

⚖ : 700 g.

Short single spoon

895A

- Bumping spoon.
- Varnished and polished finish.
- Length : 285 mm.

⚖ : 820 g.

Forming tool sets

Basic 5-piece forming tool set

CR.858J5

• Supplied loose, as below.

	Qty	Description
861D.30	1	Bumping hammer
862D.60	1	Flat dresser
870B	1	Regular dolly
906A	1	Pinch wedge dolly
871B.45	1	Slim wedge dolly

Professional 15-piece forming tool set

CR.858J15

• Supplied loose, as below.

	Qty	Description
868D.40BOC	1	Curved peen hammer
866D.32	1	Shrinking hammer
861D.30	1	Bumping hammer
862D.60	1	Flat dresser
870B	1	Regular dolly
906A	1	Pinch wedge dolly
871B.45	1	Slim wedge dolly
872A	1	Curved head dolly
875.3	1	Long single spoon
876A	1	Angled, flat double spoon
895A	1	Short single spoon
891A.PL	1	Flat shrinking blade
851B	1	Frame for milled files
850.S350	1	Standard file
209.50	1	Wood mallet

Specialist 20-piece forming tool set

CR.858J20

• Supplied loose, as below.

	Qty	Description
868D.40BOC	1	Curved peen hammer
866D.32	1	Shrinking hammer
861D.30	1	Bumping hammer
861D.RPC	1	Round, flat and convex head hammer
862D.60	1	Flat dresser
870B	1	Regular dolly
906A	1	Pinch wedge dolly
908A	1	Flat regular dolly
871B.45	1	Slim wedge dolly
872A	1	Dished dolly
874A	1	Curved head dolly
875.3	1	Long single spoon
875.4	1	40° single spoon
876A	1	Angled, flat double spoon
895A	1	Short single spoon
891A.PL	1	Flat shrinking blade
851B	1	Frame for milled files
850.S350	1	Standard file
850.F350	1	Fine file
209.50	1	Wood mallet

Modules

Bodywork module

MOD.CAR1

• Comprising :
- 861D.RPC : Hammer with round, flat and convex heads.
- 902B : Thin toe dolly.
- 909A : Slim shaping dolly.
- 906A : Pinch wedge dolly.
- PL.396A : Tray.

	Description
211.MH26	Spare handle and wedge

Bodywork module

MOD.CAR1

• Comprising :
- 225.J3 : Set of 3 end mills.
- 259.P : Slim profile chisel with guard.
- 518.4 : Lock-grip pliers.
- 850.S350 : Standard milled file
- 851B : Frame for milled files.
- 862D.60 : Flat dresser.
- 875.3 : Long single spoon.
- 875.4 : Angled spoon.
- 884B : Panel shears
- 874A : Dished dolly.
- PL.379B : Tray.

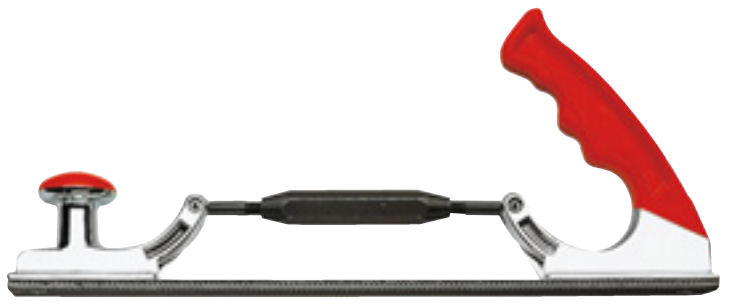
	Description
211.MH26	Spare handle and wedge

File set

Frame for milled files

851B

• Ergonomic handle with a choice of two working positions according to the task to be performed.
• Accurate setting of file profile.
• Takes both 300 and 350 mm file lengths.
• Supplied without file.
• FACOM produces 5 different milled files (cuts : standard, fine and extra-fine).
• Dimensions : 360 x 33 x 140 mm.
⚖ : 630 g.



850 Milled files

• Recommended for soft metal, cast iron, mild steel and soft plastics.
• For use with frame 851B.

	Cut	Tooth shape	Teeth per cm	L mm	l mm	⚖ g
850.S300	Standard	Arc	3 1/2	300	30	190
850.S350	Standard	Arc	3 1/2	350	35	270
850.SD350	Standard	Straight	3 1/2	350	35	260
850.F350	Fine	Arc	4 1/2	350	35	270
850.EF350	Extra-fine	Arc	6	350	35	300

Modules

Milled file module

MOD.850

- Comprenant :
- 851B : Frame for milled files.
- 850.SD350 / S350 / F350 : Standard straight, standard arc and fine arc files.
- 229A.ST1 : Stepped bits ∅ 4 to 20 mm.
- 225.8J2 : End mills ∅ 8 mm.
- Tray PL.630.

⚖ : 1.8 kg.

Assembling

Spot welding

Spot welder

UM.300-220

- Air supply : 220 V single phase.
- Force : 11 kVA.
- Max. welding capacity : 2 x 2 mm sheets.

∅ 18 mm electrode carrier.

- Time setting 15 sec to 1 min 25 sec.
- Electrode pressure adjustment.
- Each spot welder supplied with :

UM.300AF electrode dresser.
UM.300BA set of 2 bushes for electrode holders ∅16 mm.
82.5 hexagon key.

- Dimensions : 370 x 90 x 230 mm.

⚖ : 10 kg.

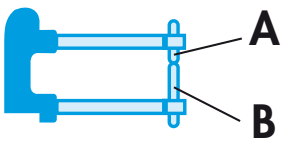
	Description
UM.300EL1	Electrodes

380 V single-phase spot welder

UM.300-380

- Same as UM.300-220 except with 380V power supply.

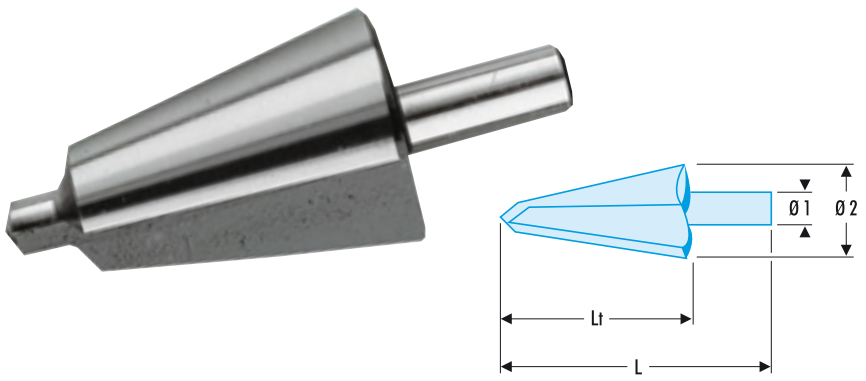
		Qty
UM.300EL3	A	1
UM.300EL4	B	1



Drill bits

229A Reaming bits

- HSS for drilling, deburring and reaming thin sheet steel and non-ferrous metals.
- Max. recommended thickness : 4 mm.



	∅ 2 mini - maxi mm	∅ mm	Lt mm	L mm	⚖ g
229A.1	3 - 14	6	37	59	21
229A.2	5 - 20	8	41	71	45
229A.3	16 - 30,5	9	48	76	131

Set of 3 reaming bits

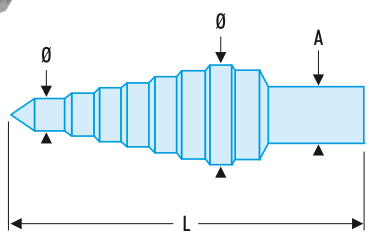
229A.J3

- Capacity : ∅ 3 to 30.5 mm.
- In a steel case : 120 x 100 x 38 mm.
- Supplied with lubricant.

⚖ : 555 g.

229A.ST Stepped bits

- For precision-drilling straight bores in all materials.
- No pilot hole required.
- Parallel shank with 3 flats for positive rotation.
- Diameter identification markings.



	∅ mini - maxi mm	A mm	L mm	⚖ g
229A.ST0	4-5-6-7-8-9-10-11-12	6	65	25
229A.ST1	4-6-8-10-12-14-16-18-20	8	75	65
229A.ST2	4-6-9-12-15-18-21-24-27-30-33-36-39	10	107	315
229A.ST3	6-9-13-16-19-21-23-26-29-32-35-38	10	100	320

Pliers

Hand punch

CAD.9

- Punch : ∅ 5 mm.
- Max. sheet thickness : 0.8 mm.
- Dimensions : 290 x 130 x 30 mm.

⚖ : 1.17 kg.

	Description
CAD.10RN1	Punch and die, 5 mm diameter

Hand crimper and punch

CAD.10

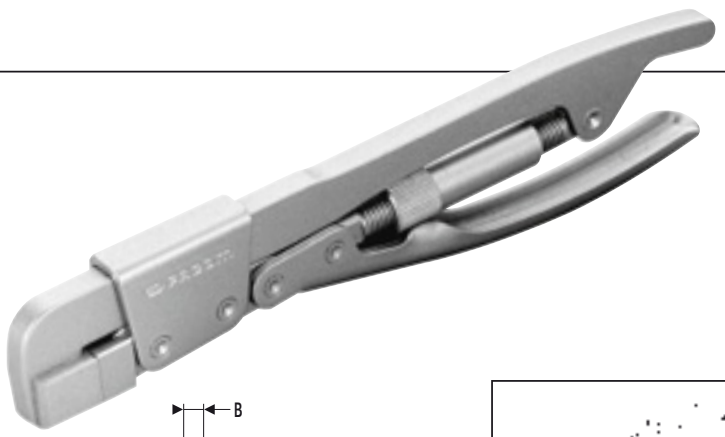
- Crimp width : 12 mm.
- Punch ∅ 5 mm.
- Swivel head.
- Max. sheet thickness : 0.8 mm.
- Dimensions : 290 x130 x 30 mm.

⚖ : 1.2 kg.

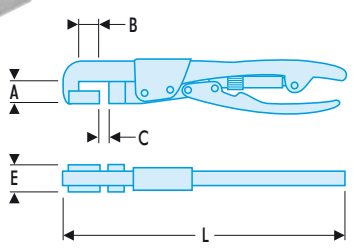
	Description
CAD.10RN1	Punch and die, 5 mm diameter

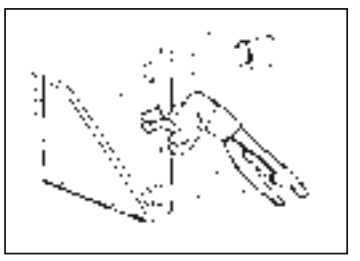
Lock-grip pliers

518 Bodywork lock-grip pliers



- For clamping panels when setting opening clearance or during assembly.
- Compact tools with smooth jaws.
- 518.1 : for 2 flat panels.
- 518.2 : for 2 panels with 90° edge.
- 518.3 : for 2 panels with 90° edge, allowing spot welding within jaw throat.
- 518.4 : for 2 flat panels, allowing spot welding within jaw throat.





	C mm	A mm	B mm	E mm	L mm	⚖ g
518.1	18	14	-	13	205	330
518.2	10	14	14	13	205	330
518.3	20	15	48	50	240	420
518.4	20	45	-	50	215	400

Painting preparation

SURFACE PREPARATION WORKSTATION

EFFICIENT, MORE ORGANISED STORAGE

• Specially designed to enable the user to perform surface preparation tasks in a minimum of time with a maximum of organisation.

• A clever storage system for keeping all the tools and consumables required for each job close to hand.

• Every day, you will apreciate the comfort, safety and organisation provided by its various features.

• Particularly appreciated for ISO 9000 certifications

Supplied without tools and consumables

EASY TO MAINTAIN

• Galvanized steel worktop, resistant to chemical agents, solvents, etc. Removable lip.

EVERYTHING CLOSE TO HAND

• Bottle-shelf, paper-roll holder, waste bin, shelf for abrasives, adhesive rolls, etc: keeps everything within easy reach, at all times !

CORNER BUMPERS

• To avoid damage to vehicles in case of accidental contact !

CLASP PADLOCK

Workstations

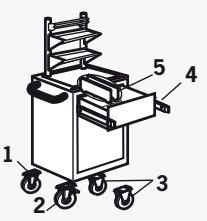
Surface preparation workstation

CR.T3

• 2 sloping upper shelves for storing consumables.
• 1 drawer 130 mm high with padlock for expensive items, safety items, etc.
• 2-way sloping shelf for ordinary tools.
• 1 storage area for bulky consumables.
• Perforated recessed side panels for attaching accessories : 2 bottle-shelves, 1 paper-roll holder, wire supports to hold paint guns, 1 waste bag holder.
• Dimensions 1,585 x 1,020 x 610 mm.
⚖ : 52 kg.

CR.T3

1	2825.08	4	2840.13
2	2825.09	5	2840.16
3	2600.19		

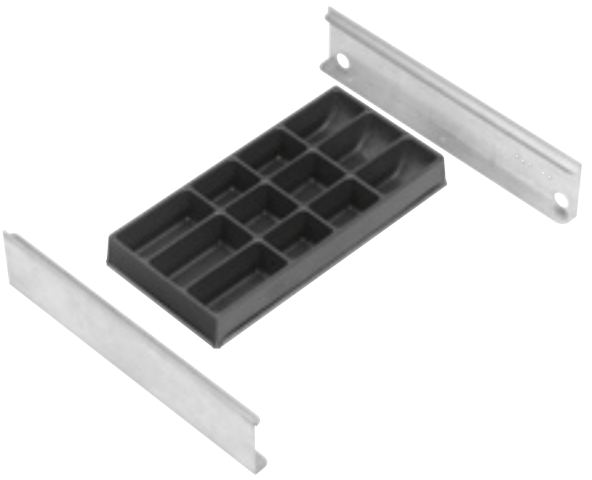


Drawer kit

CR.A1

- Organization kit for drawers min 130 mm high.
- For storing clips, staples and rivets.
- Includes fixings.
- For workstations CR.T2, CR.T3, CR.T4.

⚖ : 250 g.



Supports

Paper dispenser stand

CR.P6

- Strips of masking paper up to 1.20 m long within easy reach.
- Sheets can be torn off with one hand, avoiding the need for an assistant.
- Sheets easily cut to the required length.
- Easy to manoeuvre around the workshop
- Dimensions : 1,380 x 1,370 x 500 mm.

⚖ : 18 kg.

Multi-functional bodywork support cradle

CR.S7

- Maximum supported weight by CR.S7 : 80 kg.
- Waist-height support.
- Ergonomic design, flexible fabric sling moulds to the shape of the panel supported.
- Easy to move (4 castor wheels, good load distribution).
- Easy to move (2 castors with brake).
- 2 foam protections to prevent scratches (accessory CR.S7PRO).
- Compact design.
- Easy to store.
- Dimensions : 90 x 82 x 93 cm.
- 3 year guarantee.

⚖ : 6.5 kg.

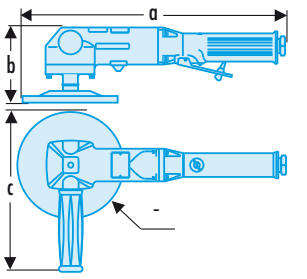
	Description
CR.S7PRO	Foam protection
CR.S7-05	Set of 2 slings

Air tools

Angle sander ∅ 178 mm

V.252

- Surface roughing and cleaning.
- Designed for use with 178 mm dia. fibre disc.
- Powerful, 4-blade motor.
- Supplied with handle and one 178 mm dia. fibre pad.
- Air connection (female thread) : 1/4".
- Recommended air hose (∅ int.) : 8 mm.
- Recommended fitting (thread - ∅ int.) : 1/4"-6.
- Pressure : 6.3 bar.
- Speed of rotation : 4,500 rpm.
- Average air consumption : 490 l/min.
- Noise level (dB(A)) : 86.9.
- Vibration level : < 2.5 m/s².
- Pad size : 178 mm.



	a mm	b mm	c mm	∅ mm	kg
V.411	320	103	235	175	1,8

	Description
V.411A1	178 mm dia. pad

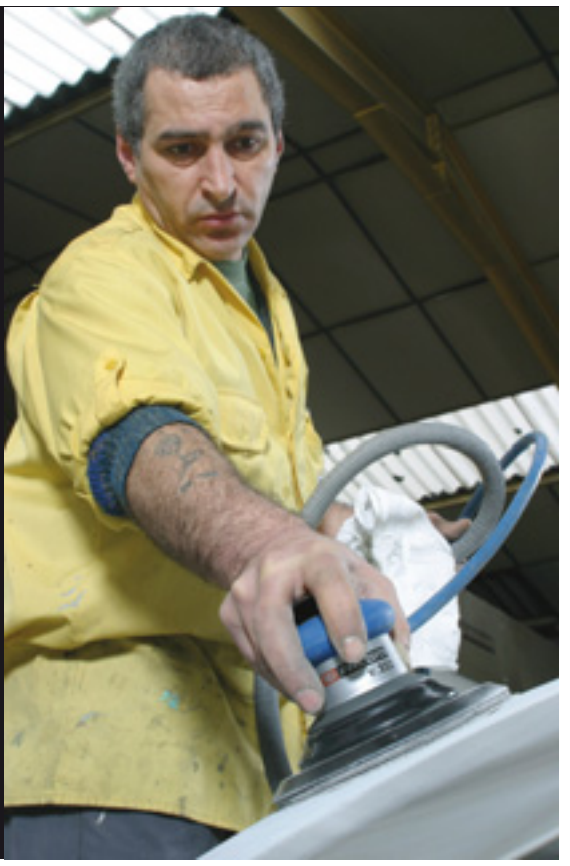
V.252F Orbital sander ∅ 152 mm - 5 mm orbit

POWER WITHOUT WEIGHT

The V.252 pneumatic sander is ideal for preparing surfaces for painting.
The free speed of 12,000 rpm is perfect for obtaining a finely sanded treated surface.
The speed control lever can be operated without setting down the tool.

Advantages :
• Featherweight
• Low noise
• Comfortable and easy to handle

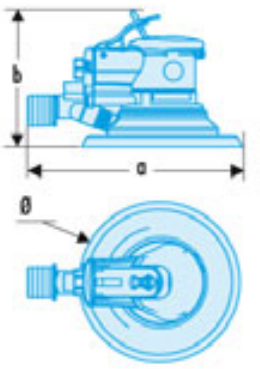
With its compact design, this sander can be held in one hand. Its lightweight material reduces the transmission of cold in winter and provides a good feel while considerably reducing vibration.



Orbital sander 152 mm - 5 mm orbit

V.252F

- Can connect to a central exhaust unit.
- Speed of rotation : 10,000 rpm.
- Air inlet thread : 1/4".
- Working pressure : 6.2 bars.
- Pad diameter 152 mm.
- Supplied with a 6-hole Velcro pad.
- Orbit 5 mm.
- Average air consumption : 104 l/min.
- Rotation speed control system.



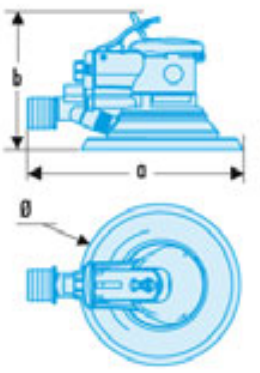
	a mm	b mm	Ø mm	⧋ kg
V.252F	225	115	152	0,74

	Description
V.252F1	6 hole Velcro pad

One-handed orbital sander ∅ 150 mm - 2.5 mm orbit

V.252

- Ultra-light one-handed sander, special high finish.
- Supplied with 6-hole ∅ 150 mm.
- Powerful torque, comfortable thermal and vibration-insulated body.
- Compatible with all ∅ 29 mm.
- Dust-proof double bearing.
- Speed can be varied during sanding using handle-mounted control.
- Air connection (female thread) 1/4".
- Recommended air hose (∅ int.) : 8 mm.
- Recommended fitting (thread - ∅ int.) : 1/4"-6.
- Pressure : 6.3 bars.
- Speed of rotation : 10,000 rpm.
- Average air consumption : 380 l/min.
- Noise level : 77,8.
- Vibration level : < 2.5 m/s².
- ∅ Tray : 150 mm.
- Eccentric offset : 2.5 mm.

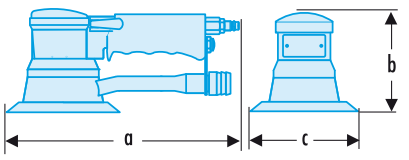


	a mm	b mm	Ø mm	⧋ kg
V.256	205	125	150	0,87

	Description
V.256A1	6 hole Velcro pad ∅ 150 mm.

Two-handed orbital sander ∅150 mm - 8 mm orbit

V.252



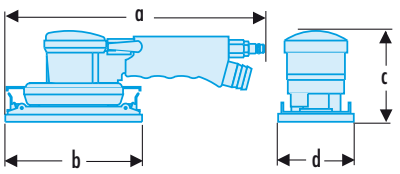
- Easy to handle, lightweight roughing sander.
- Supplied with 6-hole ∅ 150 mm.
- Double bearing, comfortable thermal and vibration-insulated body.
- Compatible with all ∅ 29 mm.
- Variable speed control from 5,000 to 10,000 rpm.
- Air connection (female thread) 1/4".
- Recommended air hose (∅ int.) : 8.
- Recommended fitting (thread - ∅ int.) : 1/4"-6.
- Pressure : 6.3 bar.
- Speed of rotation : 10,000 rpm.
- Average air consumption : 340 l/min.
- Noise level (dB(A)) : 76.1.
- Vibration level : 3 m/s².
- ∅ Tray : 150 mm.
- Eccentric offset : 8 mm.

	a mm	b mm	c mm	ΔΔ kg
V.258	305	140	150	1,5

	Description
V.258A1	6 hole Velcro pad ∅ 150 mm

Vibrating sander - 95 x 170 mm - 8 holes

V.252



- Easy to handle, lightweight roughing sander.
- Supplied with pad and 8-hole abrasive perforator.
- High-quality chrome-plated aluminium motor, comfortable thermally-insulated body.
- Clips for standard abrasives.
- Compatible with all ∅ 29 mm.
- Variable speed control from 5,000 to 10,000 rpm.
- Air connection (female thread) : 1/4".
- Recommended air hose (∅ int.) : 8 mm.
- Recommended fitting (thread - ∅ int.) : 1/4"-6.
- Pressure : 6.3 bars.
- Speed of rotation : 10,000 rpm.
- Average air consumption : 360 l/min.
- Noise level : 74.
- Vibration level : 5.4 m/s².
- Eccentric offset : 5 mm.

	a mm	b mm	c mm	d mm	ΔΔ kg
V.260	320	170	120	95	1,7

	Description
V.260A1	8 hole plate
V.260SAV50B	95 x 170 mm pad

Belt sander - 10 x 330 mm

V.252

- Surface roughing and cleaning.
- Multi-position adjustable handle.
- Quick-change belt system.
- Supplied with 3 belts (one ready-mounted) : 2 x 120 grit, 1 x 80 grit.
- Air connection (female thread) : 1/4".
- Recommended air hose (∅ int.) : 8 mm.
- Recommended fitting (thread - ∅ int.) : 1/4"-6.
- Pressure : 6.3 bars.
- Speed of rotation : 15,000 rpm.
- Average air consumption : 400 l/min.
- Noise level : 79,4.
- Vibration level : < 2.5 m/s².
- Belt size : 10 x 330 mm.
- Each belt reference corresponds to a single belt.
- Minimum order = 10 belts.

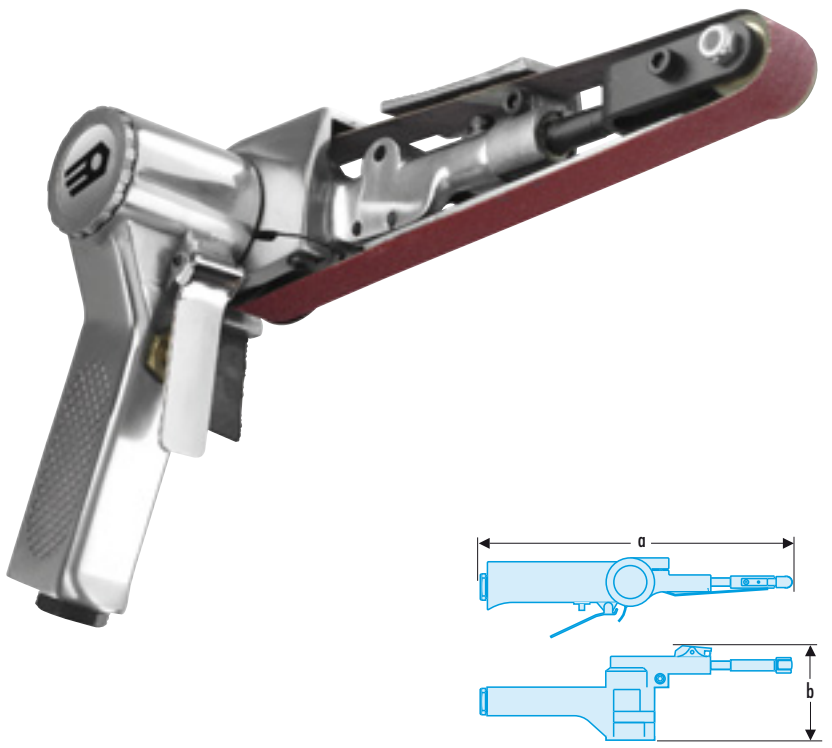
	a mm	b mm	ΔΔ g
V.402	284	76	800

	Description
V.402A1	80 grit belt 10 x 330
V.402A2	120 grit belt 10 x 330

High capacity belt sander - 20 x 520 mm

V.252

- Surface roughing and cleaning.
- Multi-position adjustable handle.
- Quick-change belt system.
- Supplied with 2 belts (one ready-mounted) : 1 x 120 grit, 1 x 80 grit.
- Air connection (female thread) : 1/4".
- Recommended air hose (∅ int.) : 8 mm.
- Recommended fitting (thread - ∅ int.) : 1/4"-6.
- Pressure : 6,3 bar.
- Speed of rotation : 17,000 rpm.
- Average air consumption : 400 l/min.
- Noise level : 78.
- Vibration level : < 2.5 m/s².
- Belt size : 20 x 520 mm.
- Each belt reference corresponds to a single belt.
- Minimum order = 10 belts.



	a mm	b mm	ΔΔ kg
V.403	353	89	1,15

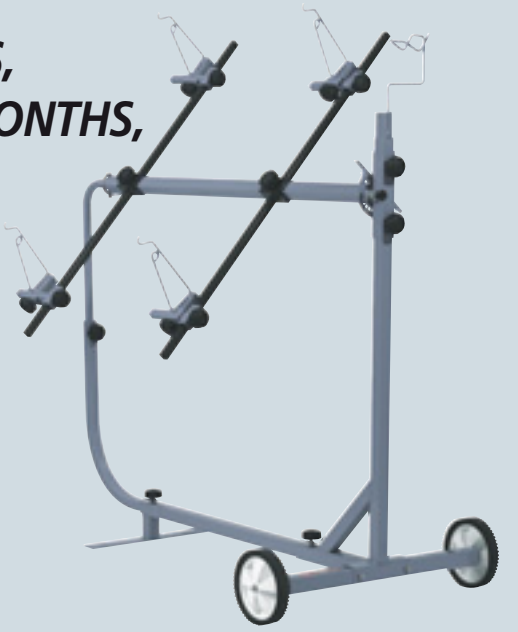
	Description
V.403A1	80 grit belt 20 x 520
V.403A2	120 grit belt 20 x 520

Painting

Component storage stand

REDUCE OPERATOR MOVEMENTS, INVESTMENT RECOVERED IN 3 MONTHS, OPTIMISE YOUR STORAGE.

- *For storing bonnets, tailgates, wheels exhaust systems, etc.*
- *Easy to manoeuvre (4 castor wheels).*
- *Compact design.*
- *Guarantees efficient organisation.*
- *Avoids lost parts, saves time.*



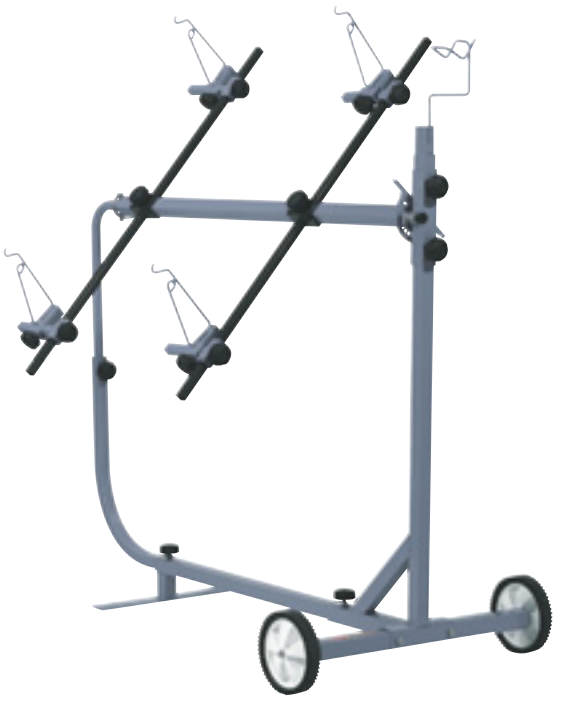
Supports

Painting stand

CR.P1

- Maximum supported weight by CR.P1 : 50 kg.
- Easy to use.
- Modularity : 16 adjustment points, height adjustment, 360° angular adjustment with locking system.
- Sturdy frame.
- 2 large wheels for easy manoeuvrability.
- Compact design.
- Dimensions : 130 x 120 x 70 cm.
- 3 year guarantee.

⚖ : 19 kg.



Bodywork support stand

CR.P2

- Working height : min. 800 mm, max. 1,100 mm.
- Maximum supported weight : 80 kg.
- Easy to use.
- Height adjustment.
- Sturdy frame, stable base.
- Small footprint, stores easily.
- 3 support points.
- 3 year guarantee.

⚖ : 8 kg.

	Description
CR.S7PRO	Foam protection

Small parts stand

CR.P3

- For simultaneous painting of three components.
- The branches can be removed to allow proper application of paint.
- The height and the spacing of the arms can be adjusted to provide a comfortable working position and for supporting longer items.
- Dimensions : 1,040/1,180 x 1,000/1,300 x 370 mm.
- Supplied with 500 double-sided adhesive tabs for securing the parts in place.

⚖ : 5 kg.

	Description
CR.P3-1	Roll of 500 adhesive tabs

Steps

CR.S2

- Ideal for raised working on light commercial vehicles, multi-purpose vehicles, 4x4, etc.
- Wide working width.
- Maximum supported weight by CR.S2 140 kg.
- Compact design.
- Incorporates safety hoop, stable base and other safety features.
- Folds for easy storage.
- Two wheel positions : front, rear or right, left.
- Suitable for use on paint booth open-mesh flooring.
- Dimensions : 80 x 100 x 200 cm.
- 3 year guarantee.

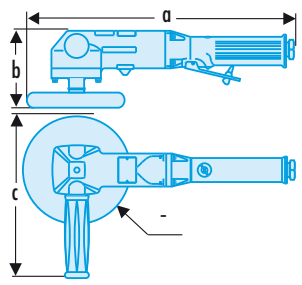
⚖ : 37 kg.

Finishing

Pneumatic bodywork tools

Angle polisher 178 mm.

V.252



- Buffing and polishing.
- Heavy-duty machine.
- Supplied with 1 handle, 1 pad 178 mm dia, 1 195 mm polishing bonnet.
- Air connection (female thread) : 1/4".
- Recommended air hose (Ø int.) : 8 mm.
- Recommended fitting (thread - Ø int.) : 1/4"-6.
- Pressure : 6.3 bar.
- Speed of rotation : 2,000 rpm.
- Average air consumption : 470 l/min.
- Noise level (dB(A)) : 82.4.
- Vibration level : < 2.5 m/s².
- Tray : 178 mm.

	a mm	b mm	c mm	Ø mm	⚖ kg
V.902	320	103	230	178	1,8

	Description
V.902A1	178 mm pad
V.902A2	195 mm polishing pad
V.902A3	160 mm foam pad

Windshields

Workstations

Windshield workstation

EFFICIENT, MORE ORGANISED STORAGE

- ***Specially designed to allow the user to change all types of windshield in the minimum amount of time with maximum safety.***
- ***Adjustable arms for car and LCV windshields.***
- ***Foam windshield support pads***

EASY TO MAINTAIN

- *Galvanized steel work-top, resistant to chemical agents, solvents, etc.*

EVERYTHING WITHIN EASY REACH

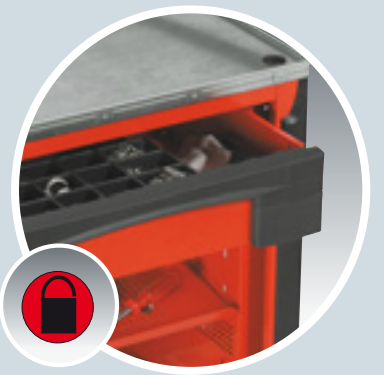
- *Drawer, shelves and perforated side panels provide ample space for the necessary tools.*

CORNER BUMPERS

- *To avoid damage to vehicles in case of accidental contact.*

LOCKABLE ADJUSTABLE ARMS

Supplied without tools and consumables

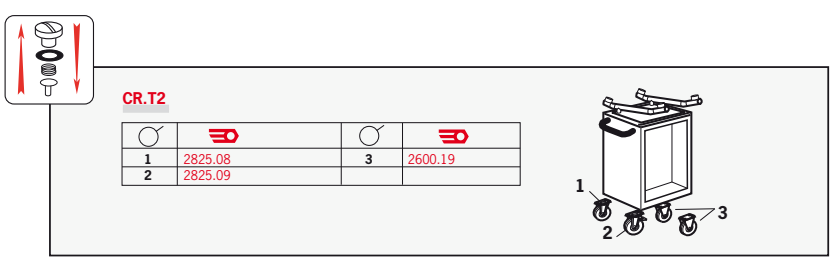


PADLOCK CLOSURE

Windshield workstation

CR.T2

• Drawer 130 mm high (padlock closure), tool shelf and storage area for consumables.
• Supplied with a paper-roll holder and two bottle shelves.
• Galvanised steel worktop with adjustable arms for supporting light vehicle and heavy-duty vehicle windshields.
• Foam windshield support pads.
• Padlocked drawer.
• Dimensions 1,050 x 970 x 610 mm.
⚖ : 48 kg.



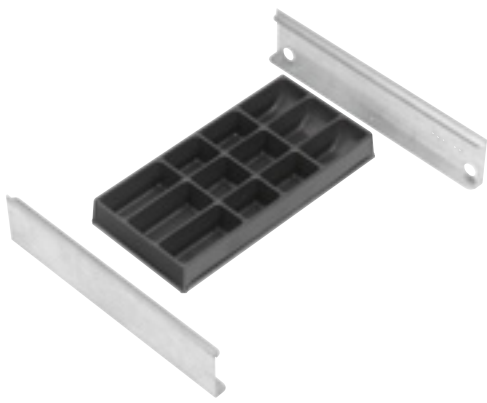
1	2825.08	3	2600.19
2	2825.09		

Drawer kit

CR.A1

- Organization kit for drawers min 130 mm high.
- For storing clips, staples and rivets.
- Includes fixings.
- For workstations CR.T2, CR.T3, CR.T4.

⚖ : 250 g.

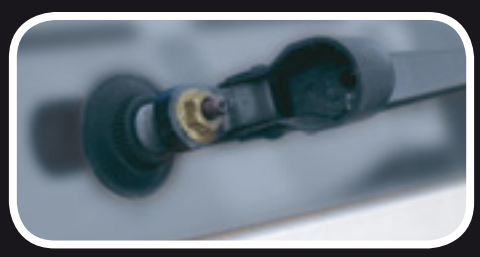


Windshield tools

CR.D10 Windshield wiper arm remover

COMPACT, LIGHTWEIGHT, EASY TO USE

- *Covers more than 95% of european vehicles.*
- *Chrome beam and legs.*
- *Legs can be adjusted in the same way as bearing pullers.*



Special spacer for washer jet

Windshield wiper arm remover

CR.D10

- One tool covering 95% of european vehicles.
- Including spacer for wiper arms with integral washer jet.
- Each leg can be removed for a better fit on the arm.
- Weight including spacer 195 g.
- Chrome beam and legs, black screw.
- Supplied with instructions.

⚖ : 220 g.

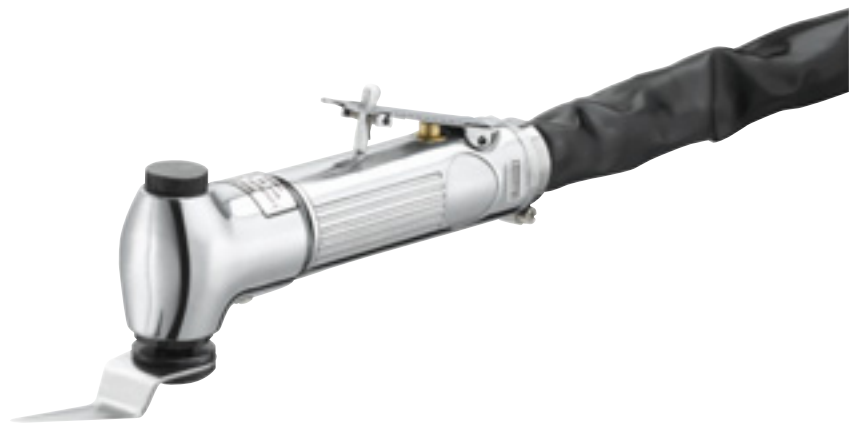
Windshield cutter

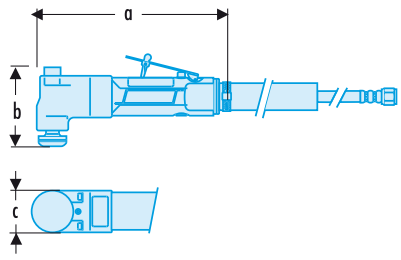
CAD.P300

- Faster windscreen replacement.
- Safety trigger.
- Air exhaust in handle.
- 3° pendular motion.
- Supplied with instructions, without blades.
- Strokes per minute : 20,000.
- Average air consumption : 110 l/min.
- Air inlet thread : 1/4".
- Ø int. air hose : 10 mm.

	a mm	b mm	c mm	ΔΔ kg
CAD.P300F	208	85	45	1.21

	Description
CAD.P300A1	Long flat blade 90 mm
CAD.P300A2	Hook blade 36 mm
CAD.P300A4	Curved blade 30 mm
CAD.P300A5	Scraper blade 8 mm
CAD.P300A6	Straight blade 35 mm
CAD.P300A7	Thin straight blade 35 mm
CAD.P300A8	Straight angled blade 35 mm
CAD.P300A9	Hook blade 24 mm
CAD.P300A10	Disc 60 mm
CAD.P300A11	Long angled blade
CAD.P300A12	Long angled blade





Windscreen cutters

CAD.P300F

Blade	Description
CAD.P300A1	Long flat blade 90 mm
CAD.P300A2	Hook blade 36 mm
CAD.P300A4	Curved blade 30 mm
CAD.P300A5	Scraper blade 8 mm
CAD.P300A6	Straight blade 35 mm
CAD.P300A7	Thin straight blade 35 mm
CAD.P300A8	Straight angled blade 35 mm
CAD.P300A9	Hook blade 24 mm
CAD.P300A10	Disc 60 mm
CAD.P300A11	Long angled blade
CAD.P300A12	Long angled blade

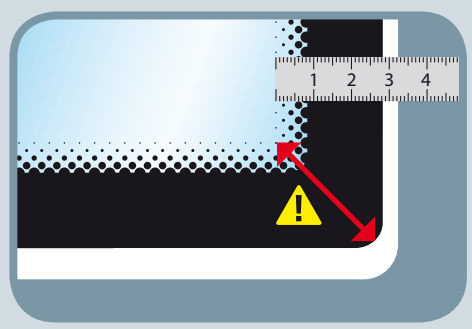
Each blade reference corresponds to a single blade

Characteristics	CAD.P300
Oscillations per minute	20 000
Weight (kg)	1,21
Length (mm)	208
Average air consumption (l/min)	120
Air inlet thread (inches)	1/4
Ø int. air hose (mm)	10
Working pressure (bar)	6,2

Windscreen cutters

- *Using a ruler, measure the depth of glue to be cut, up to the windscreen's printed markings.*

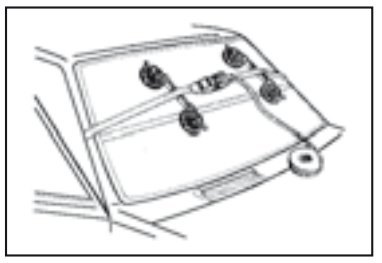
Select the corresponding blade, taking account of the rounded corners.



Windshield replacement kit

D.28B

• Suction cups for carrying and positioning windshields during replacement.
• Swivel suction cups cater for straight and curved surfaces.
• Light alloy body.
• Comprising :
D.28A1 Suction cups (x2).
- D.28A2 Ratchet strap.
- D.28-3 Removal tool.
- D.28-4 Pull handle.
- D.28-5 Braided wire for windshields (18 metres).
⚖ : 3.3 kg.



Windshield tools

D.80

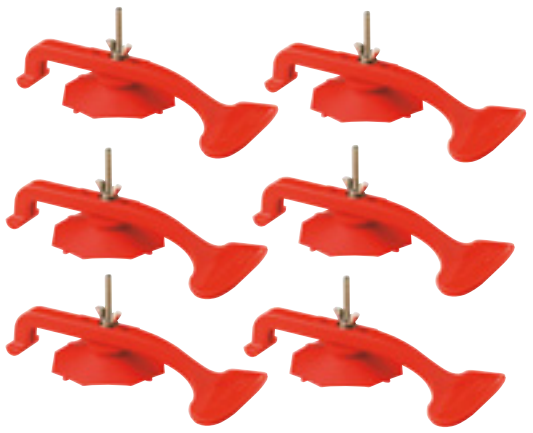
• Set of 3 tools supplied in a plastic case.
• Comprising :
- D.80-01 Windshield fitting tool.
- D.80-02 Trim fitting tool.
- 82.4 Hexagon key (4 mm).
• Dimensions : 325 x 135 x 50 mm.
⚖ : 820 g.

	Description
D.80-02-04	For narrow trim
D.80-02-05	For medium trim
D.80-02-06	For wide trim

Set of 6 suction cups

DCR.20J6

• Excellent suction on painted panels and windows.
• Secures bonded components while curing.
• Many bodywork applications :
- Door trims
- Windshield trims
- Names and badges.
- Interior mirrors, etc.
⚖ : 470 g.



Adjustable windshield support

2800.A8

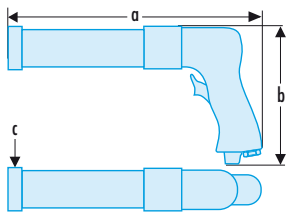
• Instantly attaches onto a roller cabinet.
• Dimensions : 540 x 160 x 100 mm.
⚖ : 2.8 kg.

Pneumatic bodywork tools

Caulking gun - 50 x 215 mm cartridge

V.801

- For applying silicon, mastics, adhesives, etc.
- Variable flow.
- Automatic pressure release halting flow of mastic.
- Air connection (female thread) : 1/4".
- Recommended air hose (Ø int.) : 10 mm.
- Recommended fitting (thread - Ø int.) : 1/4"-8.
- Pressure 6.2 bar.
- Noise level 70.
- Vibration level : < 2.5 m/s².
- Standard cartridge : 50 x 215 mm.



	a mm	b mm	c mm	⚖ kg
V.801F	305	168	62	1,3

Hydraulic equipment

4 T hydraulic straightening kit

CR.4T

- 15-piece kit comprising :
- 1 hand pump (270 cm3).
- 1 push-jack (122 mm stroke).
- 1 plier-spreader jack.
- 5 extension pieces (115 to 534 mm).
- 7 accessories : flat base, spreading legs, heads (V, chequered, rubber).
- Quick couplers.
- 700 bar working pressure.
- Supplied in a storage case.
- CE.

⚖ : 21.4 kg.

10 T hydraulic straightening kit

CR.10T

- 15-piece kit comprising :
- 1 hand pump (600 cm3).
- 1 push-jack (154 mm stroke).
- 1 plier-spreader jack.
- 3 extension pieces (115 to 534 mm).
- 7 accessories : flat base, spreading legs, heads (V, chequered, rubber).
- Quick couplers.
- 700 bar working pressure.
- Supplied in a wheeled storage case.
- CE.

⚖ : 37.1 kg.

Hydraulic oil - 2 litres

WA.21

- 2 litre can.
- Suitable for hydraulic bodywork jacks, lifting jacks, cranes and pit jacks.

Heavy goods and industrial vehicles

Engine

SERVICES

- ***DEMONSTRATIONS***
- ***TECHNICAL ENQUIRIES***
- ***NEW PRODUCTS ONLINE***
- ***AUTOMATED TOOL KIT INVENTORY***

If you wish, you can arrange a visit by a FACOM advisor to carry out an inventory of your tools (roller cabinets, tool boxes, work benches, etc)

Advice, demonstrations

- *If you wish to have a presentation or a demonstration, simply contact our sales department or your distributor to arrange for a FACOM advisor to visit you. Sales department :*

Internet.

- *Discover the latest additions to our range, consult our catalogue, visit our HGV corner or search the vehicle applications guide online at*

Technical information.

- *If you are looking for information on a product or a spare part...*

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Tool kit inventory

- *Save time.*
- *Optimise your costs.*
- *Control your tool budget.*
- *Individual Imits and harmonisation of tool kits will simplify the change-over to ISO.*

1. During the initial inventory, we establish with you for each of your workers (mechanical, bodywork, electrical, 24-hour service, etc.) a computerised list of the tools in their tool kit.
2. Once a year, at a pre-arranged time, we will perform an inventory on the basis of the original list. This will enable you to accurately monitor your available tools, to keep it up to date and make everyone accountable. You will efficiently complete your workshop's equipment. (Service only available in Mainland France).

General tooling

New

3/4" ratchet

A HEAVY-DUTY RATCHET FOR EVERY APPLICATION

COMFORT OF USE

- *Ergonomic reverse lever for easy inversion even when wearing gloves.*
- *Recessed reverse lever avoids accidental change of direction.*
- *Removable handle.*

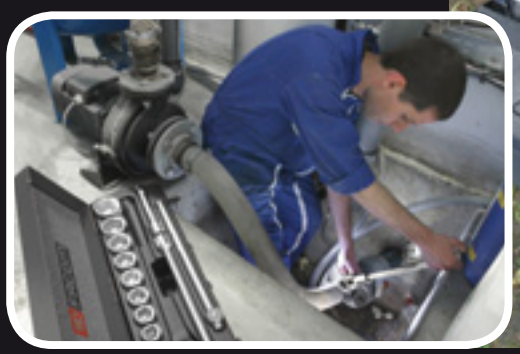
DURABILITY

- *Sturdy : 40 tooth mechanism, 9° increments.*
- *Mechanism protected against dirt.*

SAFETY

Plunger lock ratchet/sockets/accessories.

Farming machinery



Heavy industry

Heavy goods vehicles

New

3/4" square drive"Site" ratchet

K.149

▷ Performance : to ISO 3315, DIN 3122, NF ISO 3315, NF ISO 1174-1.
• Suitable for outdoor working.
- Sturdy mechanism protected against dirt.
- Recessed reversing switch :
- 9° increments.
- Removable handle.
• Length : 510 mm.
• Mechanism : 40 teeth.
• Plunger safety lock.
• Mat chrome finish.
⚖ : 2.85 kg.

	Description
K.149RN	Repair kit
K.149M	Handle for ratchet K.149

Pullers

POWERFUL, SAFE, EASY

Make the right choice.

Pulling is a delicate operation, take the time to select the right tool according to :

- *The component*
- *The size*
- *The clearance*
- *The grip : inside or outside*

Safety first

- *For your safety, never alter a puller*
- *Refer to the Pullers section for details of our complete range designed and developed to cater for all situations from 5 to 800 mm.*

New

10T hydraulic puller set with 4 sets of legs

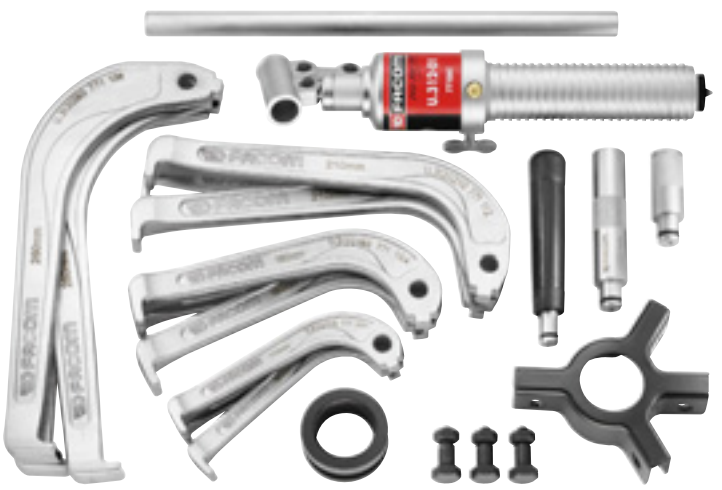
U.312HJ4

- Comprising :

- 10 tonne (100 kN) hydraulic jack U.312-01 + guide U.312-02 + set of 2 extensions U.312-03.
- A 2 or 3-leg puller body U.312-04 + centring screw U.312-04-01 + set of 3 screws/nuts U.312-04-02.
- 3 outside-gripping legs U.312G110 : Spread : 45 to 85 mm; Max. reach : 110 mm.
- 3 outside-gripping legs U.312G160 : Spread : 80 to 170 mm; Max. reach : 160 mm.
- 3 outside-gripping legs U.312G210, Spread : 90 to 210 mm; Max. reach : 210 mm.
- 3 outside-gripping legs U.312G260, Spread : 110 to 270 mm; Max. reach : 260 mm.

- Supplied in a plastic case U.312VAL 565 x 412 x 105 mm.

⚖ : 14.4 kg.

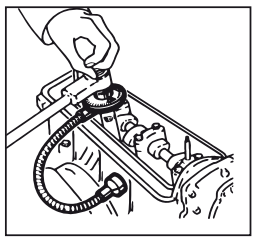


Cylinder head - pistons - valves

DM Angular torque gauge

- 2° graduations.
- Male and female ☐ drive.
- Fixed point by flexible arm with magnet.

	☐ "	Ø mm	L mm	⚖ g
DM.360	1/2	63	410	350
DM.370	3/4	73	430	550



Piston ring compressor ☐ 100 to 160 mm

750.KB

- For easy insertion of piston into cylinder bore and even compression over full ring length.
- Ratchet mechanism.
- Complete with key ☐ 6 mm.

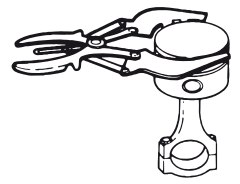
	Ø mm	L mm	⚖ g
750.KB	100...160	80	300

	Description
750.C	Key only

Piston ring pliers

751.K

- Even expansion over full ring length.
- Quick and easy to use.



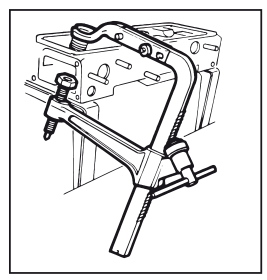
	Ø mm	L mm	⚖ g
751.K	90...150	255	330

Valve lifter

U.13L

- For removing valve springs.
- Complete with jaws U.13B.
- Dimensions : 265 x 365 x 20 mm.

⚖ : 1.14 kg.



	Description
U.13A	Straight bottom-edge jaws
U.13C	Straight top-edge jaws

Cooling

Refractometer

780A

- 2 measuring scales :

- Coolant : 0 to -50°C (5° graduations).
- Battery fluid density : 1,10 to 1.40 kg/l.

- Simple screw recalibration using distilled water.
- Supplied in a case with a sampling pipette and screwdriver.
- Dimensions : 70 x 235 x 700 mm.

⚖ : 550 g.

Large diameter hose remover

DM.44PL

- Tool consisting of a body and a moving jaw that adjusts to fit hose diameters between 48 and 115 mm.
- Compact and manoeuvrable.
- Pins on the body grip the hose, allowing it to be loosened and removed.
- Multi-thread screw allows fast pre-tightening.
- Handle size : 36 mm. Grip : 90 mm.
- Height : max opening 255 mm
- Removable handle.

⚖ : 769 g.

Lubrication - filtration

Self-gripping HGV oil-filter wrench

D.151PL

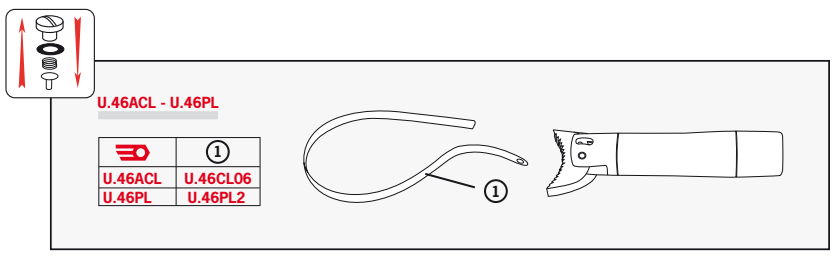
• Drive : ☐ 1/2".
• Diameter : Ø 95 to 165 mm.
⚖ : 1.345 kg.

Adjustable oil-filter wrench ☐ 105 to145 mm

U.46PL

• For heavy goods vehicles.

	L max	Ø mm	⚖ g
U.46PL	300	105...145	350



Brakes

Disc brake vernier caliper

DF.18-01

• Vernier caliper for checking the thickness of brake discs.
• Accurate, error-free reading.
• Measurements can be taken with wheel in place (if no protective bodywork).
• Can quickly demonstrate to customers the need for changing brakes.
• Supplied in a reinforced fabric case with serial number for traceability in ISO certified workshops.
• Capacity 0 to 50 mm, outer thickness measurement for the disc brakes of cars and LCVs.
• Nose length : 50 mm.
• 0.1 mm reading increments.
• Mechanical memory device.
⚖ : 250 g.

Drum brake vernier caliper

DF.19PL

• Capacity and reading to suit the requirements of car, LCV and HGV applications.
• Supplied in a reinforced fabric case with serial number for traceability in ISO certified workshops.
• Capacity 50 to 500 mm, inner drum measurement for HGVs.
• Nose length : 150 mm.
• 0.20 mm reading increments for internal drum measurements.
• 0.10 mm increments for readings between tips.
⚖ : 1.4 kg.

DF-21 Hydraulic clutch system bleeding and filling

HIGH PERFORMANCE FOR HGV WORKSHOPS

The bleeding and filling of HGV hydraulic clutch systems requires a higher flow rate.
The DF.21, with its new pump and adjustable pressure is ideal for this application.

Extensive connection options.

The DF.21 comes as standard with an aluminium plug for 44 and 45 mm diameter fluid reservoir openings and a multi-diameter plug for all sizes of opening up to 60 mm.

IMPORTANT

Take care, 2 types of fluid are used :
DOT, which is identical to LV brake systems, and Pentosine (mineral hydraulic fluid). These two fluids are absolutely non-miscible and mixing them could destroy your bleeder. Workshops using both of these products must therefore have two separate bleeders, one for each product.
The DF.21 is supplied with a green label for sticking onto the front of the machine to differentiate it if Pentosine is used.

New

Adjustable-pressure electronic brake bleeder

DF.21

- For bleeding car and LCV brakes and HGV clutches
- Pressure adjustment from 0.5 to 3 bar.
- Up and Down pressure adjustment keys.
- Electronic pressure control holds pressure steady at the selected value.
- ABS compatible.
- Portable, stand-alone appliance (12 V).
- Reservoir with visible level.
- Automatically stops below minimum level.
- Capacity : 5 l.
- Body : stainless/ABS
- Length of hose and power cable 4 m.
- Metal accessory storage case.

1 multi diameter plug for using the bleeder on vehicles with a bayonet plug (DF.20-12).
1 screw plug with 90° connection (DF.20-07).
1 fluid collector with attaching chain.
⚖ : 12 kg.

Universal plug for bleeding brakes and clutches of LVs and HGVs.

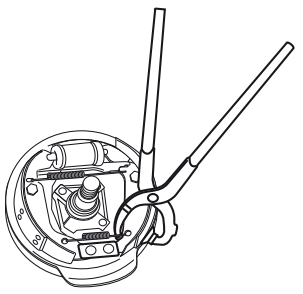
DF.20-12

- Can be used for bleeding the brakes and clutches of 90 % of vehicles.
- Claw system overcomes the many different bayonet shapes and different types and diameters of screw threads used by the various vehicle manufacturers.
- Fits most Asian makes (except Honda).
- Can also be used for bleeding the HGV clutches .
- Working diameter : 35 to 83 mm.
- Minimum clearance required above the jar : 80 mm.
- Maximum working pressure of the bleeder : 3 bar.
- Connection by Rectus series 21 male coupling.
- Dimensions : 115 x 195x 85 mm.

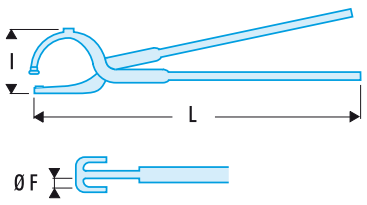
⚖ : 475 g.

196 Brake-spring pliers

- For removing shoe springs.
- Suitable for right-handed and left-handed working.



	Ø F mm	L mm	l mm	⚖ kg
196.TS	3	350	83	0,58
196.KS	5	485	100	1,23



Wheels - steering - transmission

Hydraulic HGV hub puller

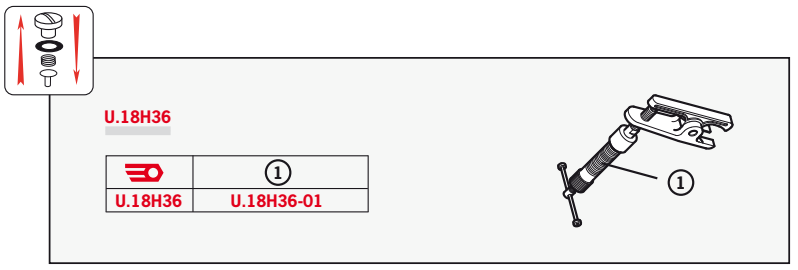
U.18H36

- Possible applications :

Volvo, Rvi, Scania, Mercedes.

- Capacity ∅ 36 mm, for HGV and coach ball joints.
- Cylinder force 8 tonnes.
- W x L x H : 100 x 480 x 400 mm.

	Capacity ∅ mm	Dimensions mm	⚖ kg
77A.PL1	36	100 X 480 X 400	6,8



HGV ball-joint separator

U.18-36

- Mechanical screw version.
- Capacity ∅ 36 mm.
- Dimensions : 210 x 180 x 80 mm.

⚖ : 4.32 kg.

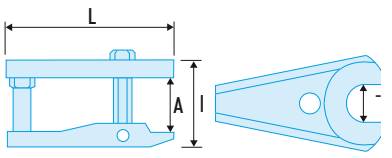
Ball-joint separator

U.16B32

- For removing steering and suspension ball-joints.
- Length : 158 mm, height : 75 mm.
- Capacity∅ 32 mm opening 80 mm.

⚖ : 2.41 kg.

- U.16-05J3 : Set of 3 shear pins.



LCV, HGV and Construction vehicle ball-joint separator

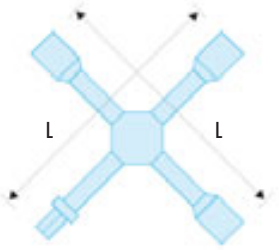
U.16A45

- For removing steering and suspension ball-joints.
- Length : 158 mm, height : 75 mm. 90 mm.
- Capacity : ∅45 mm opening 80 mm.

⚖ : 2.543 kg.

77A.Cross braces - HGV series

• Designed for removing wheel nuts on cars, light commercials and heavy goods vehicles.
• Replaceable bit on wrenches featuring a square bit.



	∅ mm	⍁ "	L mm	⍙ kg
77A.PL1	24/27/30/32	-	700	4,65
77A.PL2	24/27/33	3/4	700	4,58
77A.PL2D	24/27/32	3/4	700	4,600

	Description
77.P1	Spare male 3/4" square bit

Automatic reset wrench with removable ratchet 200-1,000 Nm

K.322

▷ ISO 6789, DIN EN ISO 6789, NF EN ISO 6789.
• Accuracy ex works : ± 4 %.
• Reliability of mechanism : 50,000 cycles (wrench to 200 Nm).
• For use with 9x12 or 14x18 accessories
• One-way wrench convertible to two-way by inverting accessories.
• Numbered and supplied with an ISO 6789 calibration certificate.
• Set supplied in a plastic box with pivot handle (except R.306A25, R.301A).

	Capacity N.m	Attachement ∅	Graduation N.m	Set contents Wrench	Ratchet	Pivot knob	Dimensions wrench only L (mm)	⍙(kg)	Dimensions including case Case	L (mm)	⍙(kg)
K.322	200-1000	30	4,00	K.325D	K.151A	-	1280	5,9	BP.D1000	1418	13,50

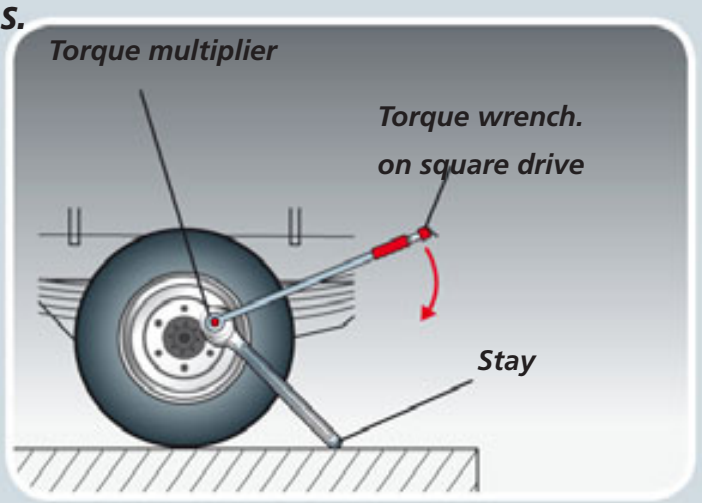
TORQUE MULTIPLIERS

CONTROLLED TORQUING

These tools have two functions.

- *High-torque loosening. (e.g. construction vehicle or HGV wheel nut)A lever arm, ratchet or sliding tee may be used.*

- *High-torque tightening. A torque wrench should preferably be used to achieve a tightening torque that is both accurate and in line with manufacturers specifications.*

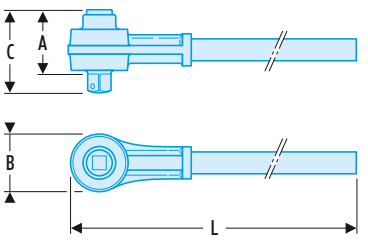


IMPORTANT

Pneumatic impact wrenches must not be used with this type of tool.

MC Torque multipliers

• Compact lightweight models designed for maintenance work on light commercials, heavy goods vehicles, farm machinery and construction plant.
• Multiplying ratio : 3.4.
• Accuracy +/- 10 % (+ accuracy of torque wrench).
• Supplied in a soft case with stop lever.



	■	Capacity min N.m	⍁	A x B x C x L mm	⍙ kg
MC.140A	3/4"	1400	1/2"	63 x 90 x 85 x 600	3,2
MC.270A	1"	2700	3/4"	80 x 95 x 113 x 680	5,1

Air tools

ESSENTIAL FOR YOUR PRODUCTIVITY

Powerful, lightweight, manoeuvrable

See section 14 for details of our complete air tool range. ***p.*** **575**

NK.2000F

NS.1800F

NM.1200F

Electricity

Hydraulic crimping pliers

789.5

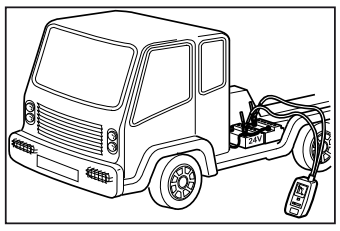
■ Faster and more reliable than soldering.
■ 5 dies : 10 - 25 - 35 - 70 mm² hexagonal pattern.
• For crimping electric terminals between 10 and 70 mm².
• Possible applications : alternators, starters, tailgates, trailers, etc.
• Head rotates 360° for ease of use where access is restricted.
• Adjustable stroke from 5 to 8 mm.
• Supplied in a case complete with 5 dies.
• Plier dimensions 215 x 180 x 30 mm.
• Factory quality crimping and shape ensured by 35,000 N cylinder and end of crimping release system that guarantee the correct pressure.
⍙ 1.7 kg.

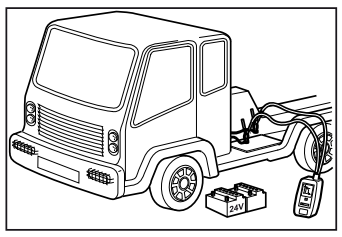
24V surge limiter

DX.8-24

- Cable length : 500 mm.
- Identical specification except 24 V.

	L x l x H mm	g
DX.8-24	100 x 20 x 45	190





HGV electrics

- *A COMPREHENSIVE RANGE*
- *TESTING AND MEASURING*
- *ON-BOARD ELECTRONICS*

789.5 Crimping pliers
For electrical tools, see "Electricity", page 631

712 multimeter clamp
For multimeter, see "Automotive electrics" section, p. 651

HGV tools

HGV vehicle tool sets *p.* 54

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