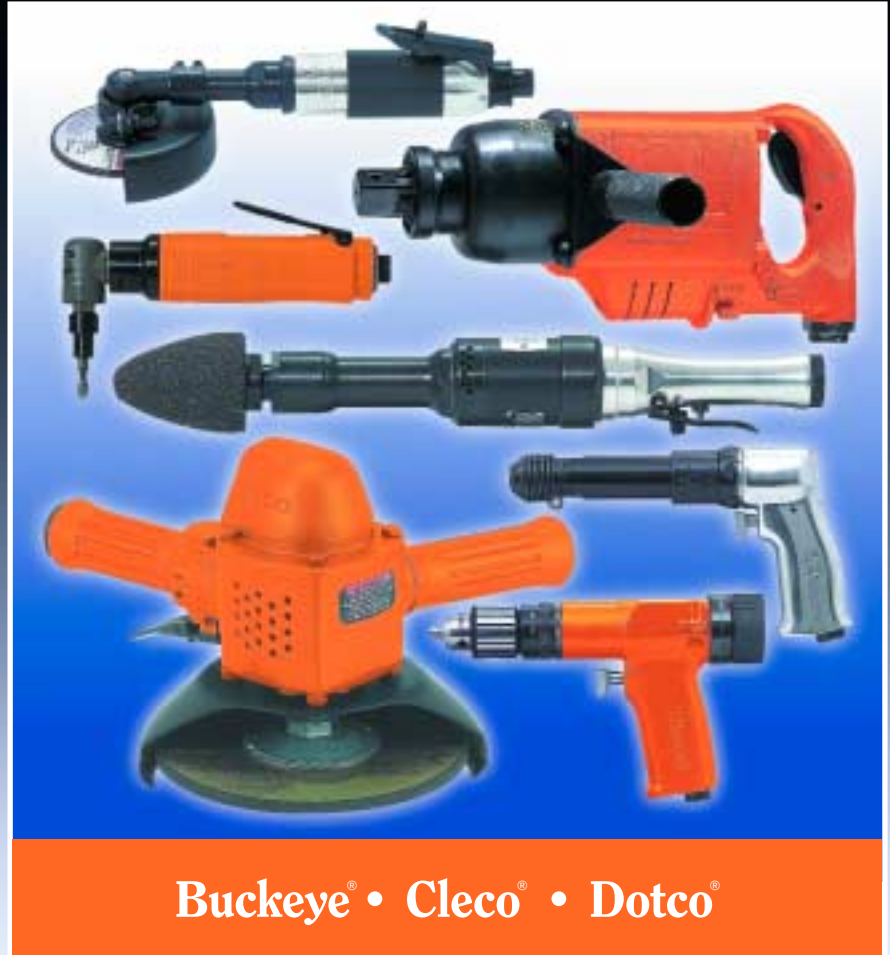


CooperTools



FABRICATION TOOLS


COOPER Tools

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CooperTools Division has attained ISO 9001 Quality System Certification for eight of our facilities. The driving force behind the implementation of the Quality System is the commitment “to provide our customers with the **best value delivered** by offering only products and services **that meet or exceed their expectations**”.



Lexington, South Carolina



Dayton, Ohio



Hicksville, Ohio



Springfield, Ohio



Westhausen, Germany



Ozoir-la-Ferrière, France



Houston, Texas

Tool Operation

Safe Work Practices Symbols



WARNING

The signal word "Warning" indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury; and, identifies safe work practices in this operating instruction. Observe these notes and proceed with special care in these cases. Pass all safety instructions on to other users. In addition to these safety instructions, the general local safety and accident prevention rules must be observed.



CAUTION

The signal word "caution!" identifies all situations meriting special attention to ensure that guidelines, rules, hints and the correct work procedures are observed; and, to prevent damage to and destruction of the machine and/or parts.

OPERATIONAL INSTRUCTIONS

These Cooper Industries portable and mountable tools are air powered.

ALWAYS USE CAUTION WHEN USING POWER TOOLS FOR PERSONAL SAFETY.

- General Industry Safety & Health Regulations, part 1910, OSHA 2206, available from Superintendent of Documents; Government Printing Office; Washington, DC 20402
- Safety Code for Portable Air Tools - ANSI B1861 available from American National Standards Institute, Inc.; 1430 Broadway; New York, NY 10018
- State and local regulations.
- Use only genuine CooperTools replacement parts.



WARNING



Before mounting any abrasive wheel, buffing wheel, wire brush, saw blade, flap wheel or other product, after all tool repairs and whenever a tool is issued for use, the RPM shall be checked with a tachometer to insure that its actual speed does not exceed rated speed. GOVERNED TOOLS IN USE ON THE JOB SHALL BE CHECKED AT LEAST ONCE EVERY TWENTY HOURS OF USE, OR ONCE WEEKLY, WHICHEVER IS MORE FREQUENT. Tachometers must be checked and calibrated on a regular basis according to the manufacturer's recommendations.



WARNING

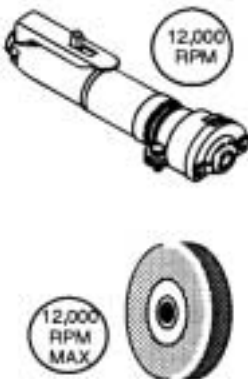


Select proper guards for the application, mount securely and properly. Always mount guards so that abrasive debris, sparks, etc., are deflected away from the operator.

Safety guards shall be in good condition. Any guard which has been subjected to a wheel failure shall be discarded and replaced.



WARNING



Speed rating of abrasive wheel, buffing wheel, wire brush, saw blade, flap wheel, or other products used, must equal or exceed speed stamped on side of tool.

Exceeding the speed of accessories may cause failure of these products and serious operator injury.

Wheels must clearly show the rated speed for its use, or must be discarded.



WARNING



Tools shall be used for purposes intended in their design. Refer to product catalog.

Modification of the tool, or use of non specified accessories, may result in serious injury.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.



WARNING



Test and operate tools at 90 PSIG (620 kPa/6.2 bar) maximum pressure (measured at the tool while the tool is running) unless tool is marked otherwise. Use recommended air line filters - regulators - lubricators.

Always disconnect the air supply hose before working on the tool or changing accessories.



WARNING



Wear impact resistant goggles or face shield at all times the tool is in operation. Other protective clothing shall be worn, if necessary, for spark protection deflection. SEE REGULATIONS.



WARNING



Immediately shut off the tool if unusual sound or vibration is detected. Remove and inspect the wheel and check the tool speed (RPM). Use of over-speeding grinder or unbalanced wheels may result in serious injury.



WARNING



High sound levels can cause permanent hearing loss. Use hearing protection as recommended by your employer or OSHA. See 29CFR Part 1910.



WARNING



Each type of wheel, wire brush, saw blade, flap wheel and other product, has specific mounting procedures and regulations concerning spindles, flanges, blotters, collets, etc., which shall be used. Wheels must mount on tool's spindle freely but not loosely. Spindle nuts must be tightened so as not to crack the wheel. Nuts must have full thread engagement.



WARNING



Employ a safety program to provide inspection and maintenance of all phases of tool operation and air supply equipment in accordance with "Safety Code for Portable Air Tools," ANSI B186.1.

Make sure that all repairs are by trained personnel only and that these safety instructions are understood by the user.



WARNING



Regularly inspect all wheels, etc., and discard cracked, chipped or otherwise damaged units. Redress out-of-balance wheels. SEE REGULATIONS.



WARNING



When mounting any grinding wheel, the tool shall be run at operating speed with the safety guard in place, in a protected area such as under a work bench, for at least one minute. A damaged wheel should fail within that time.

Any suspect wheel of unknown origin shall not be used and must be properly disposed.

Warranty

Cooper warrants products and parts sold by it, insofar as they are of its own manufacture, against defects of material and workmanship, under normal use and service in accordance with its written instructions, recommendations, and ratings for installation, operation, maintenance, and service of products, for a period of **ONE YEAR FROM THE DATE OF INITIAL USE, BUT IN NO EVENT SHALL THE WARRANTY EXCEED 24 MONTHS FROM DATE OF DELIVERY TO DISTRIBUTOR.** Proof of Purchase with shipment date must be furnished by the user to validate the warranty. This warranty applies only to products manufactured by Cooper and specifically excludes products manufactured by others. Products not manufactured by Cooper are warranted only to the extent and in the manner warranted to Cooper by the manufacturer and then only to the extent

Cooper is able to enforce such warranty. Cooper's warranty with respect to products manufactured by it is limited to the repair or replacement, as Cooper may elect, of any defective part regarding which the Distributor has given 5 days written notice from the discovery of such defect. Installation and transportation costs are not included. Cooper shall have the option of requiring the return to it of the defective material, transportation prepaid, for inspection. No allowance will be made for repairs without Cooper's approval. **COOPER MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED, AND HEREBY DISCLAIMS ALL WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.**

Lubrication Products

CooperTools' products are classified as non-hazardous manufactured items, defined in the OSHA 1910.1200 Hazard Communication Standard as "Articles". These products, under conditions of normal use, do not release or cause exposure to a hazardous chemical.

Under normal conditions of use, lubrication products sold separately for or used within these tools should not cause an exposure hazard. Refer to the Material Safety Data Sheet (M.S.D.S.) for Safety and Disposal Information. M.S.D.S. sheets are available upon request from CooperTools.

Cooper is also aware of, and complies with, the provisions of section 611 amendments to the Clean Air

Act of 1990. No ozone depleting chemicals have been used in the manufacture of our products.

If you resell or distribute these products, you have the responsibility for ensuring that the Material Safety Data Sheets are provided to the purchaser.

Proper lubrication is essential to the economical operation of pneumatic and electric tools. Tools perform better and their life is extended by using the recommended lubricants. All lubricants that are listed in the accessory section of this catalog have undergone extensive testing and are recommended for use with CooperTools products.



Welcome to our new CooperTools fabrication catalog. Because durability and productivity are important factors for fabrication applications, tools were carefully selected from three well-known brands in the CooperTools family of products – Buckeye®, Cleco® and Dotco®. Each of these brands contains products that are regarded as among the best in the industry.

By bringing these three brands together in one catalog, CooperTools offers fabrication operators one of the most extensive ranges of tools in the industry. The Buckeye, Cleco and Dotco products in this catalog reflect state-of-the-art design, precision parts, and high quality standards.



Rapid Select means fast delivery

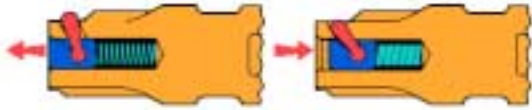
Models indicated with the **Rapid Select** icon represent our most popular tools, and are available for fast delivery on limited quantities.



Cleco Impact Wrenches

Cleco®

New Generation Telescopic Impact Wrenches



Patented Positive Lock Socket Retainer

With the patented positive lock socket retainer (U.S. Pat 3, 890,051), sockets snap on...and stay on until released. Offered on spline drives, the retainer can be serviced without disassembling the tool.

Exclusive through-bolt construction reduces replacement costs

Steel front end/motor housing/handle are clamped together by four high-strength steel bolts. This exclusive feature provides better tool performance, eliminates stripped threads and loose inserts in motor housing.



Positive oil-foam lubrication system reduces major cause of impact wrench maintenance.

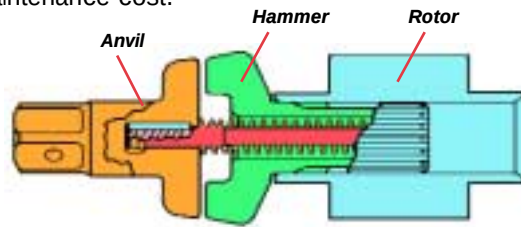
Cleco impact wrenches feature a unique oil-foam bath that provides positive lubrication for the hammer, anvil and other working parts.

The system is designed so that if the impact mechanism runs low on 30 wt. oil, the tool will stop running, thus eliminating one of the major causes of impact wrench failure ... lack



of lubrication. By simply refilling the oil reservoir, the tool can be returned to service.

Other impact wrenches soon throw off grease; run dry causing extra wear that shortens tool life and increases maintenance cost.

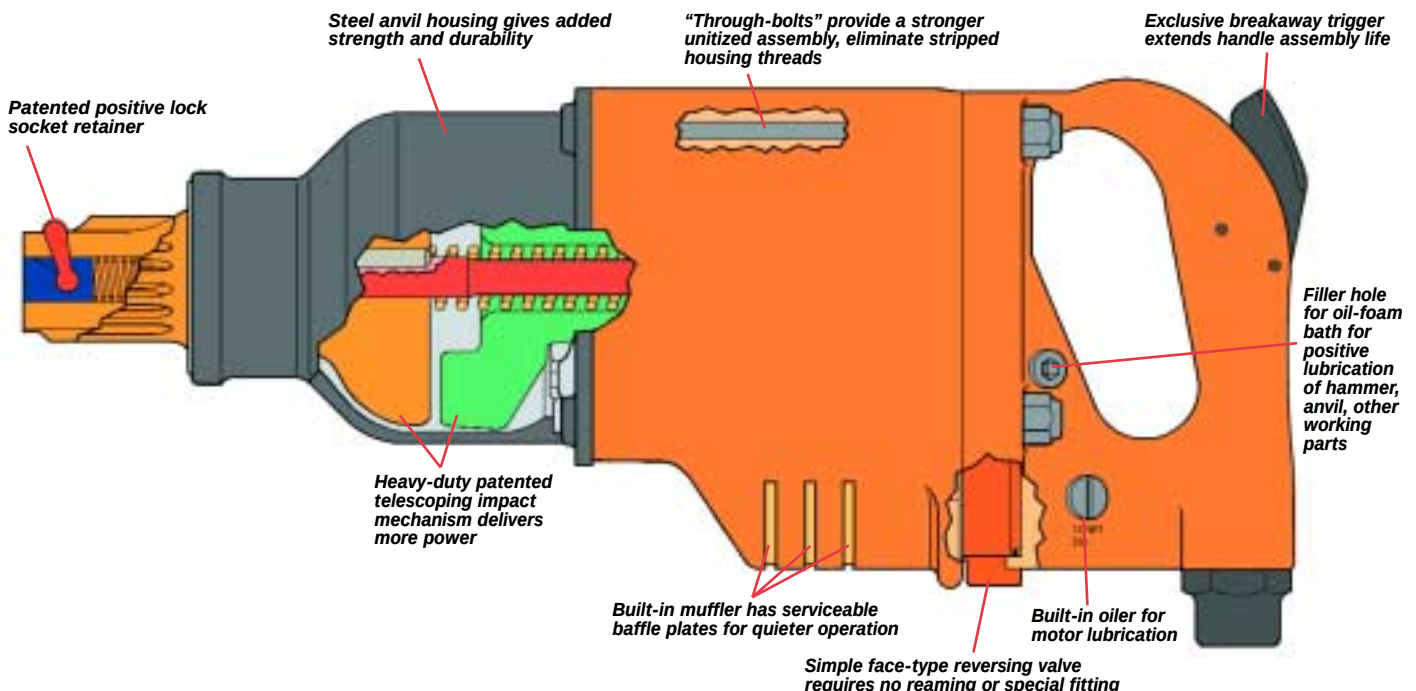


Proven heavy-duty patented telescopic impact mechanism adds power...cuts weight...reduces shock to the operator.

The smooth-hitting Cleco telescopic impact mechanism is patented (U.S. Pat. 3,156,3340) and has only three major parts - hammer, anvil and rotor...providing more power directly to the fastener. The hammer is splined to the inside of the motor, which then impacts directly on the anvil, delivering more power per blow.

Other important features include:

- Comfortable grip handle
- Outside, inside triggers and pistol grip models
- Multiposition dead handle, and spade type "D" handle available
- Throttle can be feathered for speed control
- Simple face-type reversing valve simplifies maintenance
- Forged hammer and anvil for greater durability
- Rotor bearings and steel motor end plates fit either end of motor, reducing spare parts inventory and repair time.



Cleco Impact Wrenches

Impact Wrench Bolt Selection Chart

The Impact Wrench Bolt Selection Chart will assist you in selecting impact wrenches for specific applications. Torque and tension figures are based on 70% of the proof load of a given size and grade UNC bolt. Torque values are based on non-lubricated (dry) conditions. Bolt grades and sizes are those which are the most commonly secured with impact wrenches.

Bolt Diameter		1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"	1-1/8"	1-1/4"	1-3/8"	1-1/2"	1-5/8"	1-3/4"
SAE Grade 1																	
Torque	Ft.-lb.	3	6	11	18	28	43	55	97	155	230	340	480	660	860	-	-
	Nm	(4.1)	(8.1)	(15)	(24)	(38)	(58)	(75)	(132)	(210)	(312)	(460)	(650)	(900)	(1,170)	-	-
		W-200		1/2" sq. 3/8" sq.		WP-455			1/2" sq. WP-2050 & WP-2049			3/4" sq. 5/8" sq.			1" sq. & #4 spline 3/4 sq.		
Recommended Impact Wrench																	

Impact Wrenches

Inline and Pistol Grip

Cleco®

Torque Range:
20 – 2700 Nm
15 – 2000 Ft. Lbs.

Bolt Size:
M10 – M30
7/16 – 1 1/2"

- Lever and trigger start
- Reverse or forward bias
- 6" extended and spline drives available



Model Number	Bolt Size		Square Drive	Recommended Torque Range		Impacts Per Minute	Free Speed RPM	Length		Weight		Side to Center	
	GR. 5	GR. 9.8						in.	mm	lbs.	kg	in.	mm
	in	mm		ft.-lbs.	Nm								

Inline – Lever Start

WL-200-BQ	7/16	M10	7/16*	50-15	68-20	3,200	3,000	8.5	216	3.1	1.4	1	25
WL-200-3	7/16	M10	3/8	50-15	28-20	3,200	3,000	8.5	216	3.1	1.4	1	25
WL-200-4	1/2	M10	1/2	60-15	81-20	3,200	3,000	8.5	216	3.4	1.5	1	25

Pistol Grip – Trigger Start

WP-200-BQ	7/16	M10	7/16*	50-15	68-20	3,200	3,000	6.5	165	3.4	1.6	1	25
WP-200-3	7/16	M10	3/8	50-15	28-20	3,200	3,000	6.5	165	3.4	1.5	1	25
WP-200-4	1/2	M10	1/2	60-15	81-20	3,200	3,000	6.5	165	3.4	1.5	1	25
WP-455-4R	1/2	M10	1/2	37-370	50-502	1,400	6,500	7	176	5.3	2.4	–	–
WP-455-4P***	1/2	M10	1/2	37-370	50-502	1,400	6,500	7	176	5.3	2.4	–	–
WP-2050-5	7/8	M20	5/8	450-125	600-170	1,000	6,000	6.4	162	7.8	3.5	1.6	42
WP-2050-6	7/8	M20	3/4	600-125	800-170	1,000	6,000	6.4	162	7.8	3.5	1.6	42
WP-2060B-6	1 1/8	M24	3/4	700-250	950-350	1,000	4,000	7.8	197	12	5.4	1.8	46
WP-2060B-8-6E**	1 1/8	M24	1	850-250	1100-350	1,000	4,000	13.8	350	14.3	6.5	1.8	46
WP-2060B-8	1 1/8	M24	1	900-250	1200-350	1,000	4,000	7.8	197	12.1	5.5	1.8	46
WP-2110B-8	1 3/8	M30	1	1650-750	2250-1000	880	4,600	9.5	241	20.8	9.4	2.2	56
WP-2110B-8-6E**	1 3/8	M30	1	1550-750	2100-1000	880	4,600	15.5	394	24.4	11.1	2.2	56
WPS-2110B	1 1/2	M30	#5 SPLINE	2000-800	2700-1100	880	4,600	9.8	248	21.3	9.6	2.2	56

Pistol Grip – Trigger Start – Biased Reverse Power

WP-2049-5	7/8	M20	5/8	450-125	600-170	1,000	6,200	6.4	162	7.8	3.5	1.6	42
WP-2049-6	7/8	M20	3/4	550-125	750-170	1,000	6,200	6.4	162	7.8	3.5	1.6	42
WP-2059-6	1 1/8	M24	3/4	700-250	950-350	1,000	4,000	7.8	197	12	5.4	1.8	46
WP-2059-8	1 1/8	M24	1	800-250	1100-350	1,000	4,000	7.8	197	12.1	5.5	1.8	46
WP-2059-8-6E**	1 1/8	M24	1	750-250	1000-350	1,000	4,000	13.8	350	14.3	6.5	1.8	46
WP-2109B-8	1 3/8	M30	1	1650-750	2250-1000	880	4,300	9.5	241	20.8	9.4	2.2	56
WPS-2109B	1 3/8	M30	#5 SPLINE	1800-750	2450-1100	880	4,300	9.8	248	21.3	9.6	2.2	56

* Quick change chuck
** 6" Extended spindle
*** Pin retainer

GENERAL:

Air Inlet: 1/4" NPT (WL-200, WP-200, WP-455 series) 3/8" NPT (WP-2049, WP-2050, WP-2059, WP-2060 series) 1/2" NPT (WP-2109, WP-2110 series)

Min. Hose Size: 1/4" (WL-200, WP-200, WP-455 series) 3/8" (WP-2049, WP-2050, WP-2059, WP-2060 series)
Tool performance rated at 90 psi (620kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual

OPTIONAL EQUIPMENT:

Additional accessories: Page 10

Refer to Page 5 for description of Rapid Select

Cleco®

Torque Range:
1000 – 4000 Nm.
750 – 3000 Ft. Lbs.

Bolt Size:
M30 – M36
1 3/8 – 1 1/2"

- Inside or outside lever
- Positive lock socket retainer (spline drive)
- Multiposition dead handle
- Oil foam bath
- Reverse or forward bias



Model Number		Suitable for Bolt Size		Square Drive	Recommended Torque Range		Impacts Per Minute	Free Speed RPM	Length		Weight		Side to Center	
Inside Trigger	Outside Trigger								in.	mm	lbs.	kg		
		in.	mm	in	ft.-lbs.	Nm							in.	mm
Trigger Start - Spade handle														
WT-2110-8-6E*	W-2110-8-6E*	1 3/8	M30	1	1550-750	2100-1000	880	4,600	18.9	479	24.6	11.2	2.2	56
WT-2110-8	W-2110-8	1 1/2	M30	1	1650-750	2250-1000	880	4,600	12.9	327	21	9.5	2.2	56
WTS-2110	WS-2110	1 1/2	M30	#5 Spline	2000-800	2700-1100	880	4,600	13.1	333	21.5	9.8	2.2	56
WTS-2120	WS-2120	1 1/2	M36	#5 Spline	2800-1200	3800-1600	850	3,300	14.3	362	27.6	12.5	2.3	59
WT-2120-12	W-2120-12	1 1/2	M36	1 1/2	3000-1200	4000-1600	850	3,300	14.3	362	27.6	12.5	2.3	59
Trigger Start - Spade Handle - Biased Reverse Power														
WT-2109-8-6E*		1 3/8	M30	1	1550-750	2100-1000	880	4,300	18.9	479	24.6	11.2	2.2	56
WT-2109-8	W-2109-8	1 3/8	M30	1	1650-750	2250-1000	880	4,300	12.9	327	21	9.5	2.2	56
WTS-2109	WS-2109	1 3/8	M30	#5 Spline	1800-800	2450-1100	880	4,300	13.1	333	21.5	9.8	2.2	56
WT-2119-12		1 1/2	M36	1 1/2	2600-1200	3500-1600	820	3,300	14.3	362	29	13.1	2.3	59
WTS-2119	WS-2119	1 1/2	M36	#5 Spline	2500-1200	3400-1600	820	3,300	14.25	362	29	13.1	2.3	59

*6" Extended spindle

GENERAL:

Air Inlet: 1/2" NPT

Min. Hose Size: 1/2" (WP-2109, WP-2110 series)

1/2" NPT (WP-2109, WP-2110 series)

5/8" (WP-2119, WP-2120 series)

Tool performance rated at 90 psi (620kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual

Dead handle bracket

Dead Handle

OPTIONAL EQUIPMENT:

Additional accessories: Page 10

Refer to Page 5 for description of Rapid Select

Accessories



6 Point Impact Sockets

Part No.	Hex Opening	Overall Length	Diameter Nose End	Diameter Drive End	Opening Depth
3/8" Square Drive Sockets, SAE					
3112	3/8	1-1/4	19/32	3/4	1/4
3114	7/16	1-1/2	11/16	3/4	9/32
3116	7/16	1/2	1-1/2	13/16	11/32
3118	7/16	9/16	1-1/2	7/8	7/16
1/2" Square Drive Sockets, SAE					
5112	3/8	1-1/2	5/8	15/16	1/4
5114	7/16	1-1/2	11/16	15/16	9/32
5116	1/2	1-1/2	13/16	15/16	11/32
5120	5/8	1-1/2	1	1	7/16
5122	11/16	1-1/2	1-1/8	1-1/8	7/16
5124	3/4	1-1/2	1-1/8	1-1/8	15/32
3/4" Square Drive Sockets, SAE					
7128	7/8	2	1-1/2	1-1/2	9/16
7132	1	2	1-5/8	1-5/8	5/8
7136	1-1/8	2-1/8	1-3/4	1-3/4	3/4
7140	1-1/4	2-1/8	2	1-3/4	13/16
7144	1-3/8	2-1/8	2-1/8	2-1/8	13/16
7148	1-1/2	2-1/4	2-1/4	2-1/8	120
1" Square Drive Sockets, SAE					
8132	1	2-1/8	1-5/8	2	13/16
8140	1-1/4	2-1/8	2-1/8	2-1/8	13/16
8144	1-3/8	2-1/8	2-1/8	2-1/8	13/16
8148	1-1/2	2-1/4	2-1/4	2-1/8	15/16
8156	1-3/4	2-3/8	2-5/8	2-5/8	11/16
8164	2	2-5/8	3	2-5/8	1-3/16
1-1/2" Square Drive Sockets, SAE					
9156	1-3/4	2-7/8	2-7/8	3	1-1/8
9160	1-7/8	3	3-1/8	3	1-1/4
9164	2	3-1/8	3-1/4	3-1/4	1-3/8
9172	2-1/4	3-1/4	3-3/8	3-1/4	1-1/2
3/8" Square Drive Sockets, Metric					
12mm13	12	38.1	19.1	19.1	7.2
14mm13	14	38.1	22.2	22.2	11.1
16mm13	16	38.1	23.8	23.8	11.1
1/2" Square Drive Sockets, Metric					
16mm15	16	38.1	25.4	25.4	11.1
18mm15	18	38.1	28.6	28.6	11.1
20mm15	20	38.1	31.7	31.7	11.9
22mm15	22	38.1	33.3	33.3	14.3
5/8" Square Drive Sockets, Metric					
24mm16	24	51	38.1	38.1	15.9
3/4" Square Drive Sockets, Metric					
28mm17	28	54	44.4	44.4	19.1
30mm17	30	54	47.6	44.4	19.1
32mm17	32	54	50.8	44.4	20.6
34mm17	34	54	54.0	54.0	20.6
36mm17	36	57	57.1	54.0	23.8
1" Square Drive Sockets, Metric					
32mm18	32	54	54.0	54.0	20.6
34mm18	34	54	54.0	54.0	20.6
36mm18	36	57	57.1	54.0	23.9
38mm18	38	57	57.1	54.0	23.9
42mm18	42	60	63.5	54.0	23.9
46mm18	46	64	69.8	66.7	26.9
1-5/8" Spline Drive, SAE Hex Opening Sockets					
SPL-140	1-1/4	3-1/4	2-3/8	2-3/8	1-3/4
SPL-148	1-1/2	3-3/8	2-3/8	2-3/8	1-1/2
SPL-156	1-3/4	3-1/2	2-7/8	2-7/8	1-3/4
SPL-164	2	3-5/8	3-1/4	3-1/4	21

Suspension Brackets and Bails



Part Number	Description	For use with Impact Wrench Model Number
869910	Bail	WP-200
869909	Hanger	WL-200
867619	End mount bail	WP-421D
869335	Bracket	WP-2049/2050
869398	Bracket	WP-2059/2060
865021*	Bracket	W-2109/2110
867989	Bracket	W-2119/2120

* If used with Dead Handle, order one (1) 865007 Spacer.

Hex Extensions

Part Number	Hex Drive (In.)	Type of Lock	Overall Length	
			In.	mm
Male Hex Drive with 1/2" Male Square				
EX-501-3	7/16	Pin	3	76
EX-501-4	7/16	Pin	4	102
EX-501-6	7/16	Pin	6	152
Male Hex Drive with 3/8" Male Square				
EX-371-3	7/16	Pin	3	76
EX-371-4	7/16	Pin	4	102
EX-371-6	7/16	Pin	6	152

Hex Drive Nutsetters

Part Number	Size (In.)	Overall Length (In.)	Socket Nose Diameter (In.)
7/16" 6 Point			
6N-1416-3	1/2	3	13/16
6N-1416-4	1/2	4	13/16
6N-1418-3	9/16	3	7/8
6N-1418-4	9/16	4	7/8
6N-1420-3	5/8	3	1
6N-1420-6	5/8	6	1



When it comes to fine finishing applications such as die grinding or de-burring, no tools are better suited for the job than Dotco® grinders. Dotco's reputation for durability, dependability and versatility is among the highest for fine finishing applications. This is the result of years of continuous improvements in engineering design and manufacturing processes.



Dotco products are designed with the operator in mind. They are small, lightweight and comfortable to use, without sacrificing durability. Plus, Dotco products incorporate elastomer coatings, and perfectly balanced moving parts to keep vibration to a minimum. This optimal combination of tool characteristics allows the operator to focus doing the best job possible, in the least amount of time.

Parts interchangeability

Maintenance of tools can be time consuming...and

expensive.

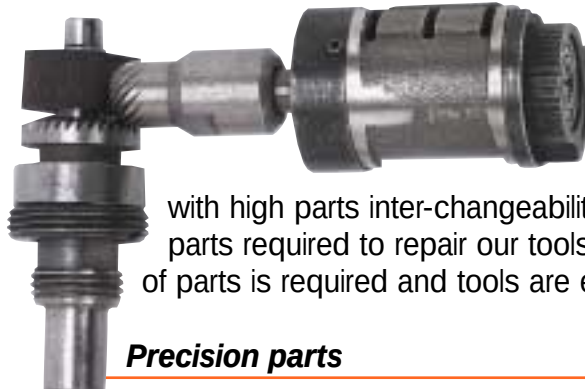
That is why

Dotco

products have

been designed

with high parts inter-changeability. With fewer parts required to repair our tools, less inventory of parts is required and tools are easier to repair.



Precision parts

It's simple, precision parts let operators manufacture precision products. Whether it is a spindle, a chuck, a motor or an angle head, our parts are manufactured from the finest materials available and are machined to the highest tolerances. It is understandable why we are proud of the .0005" runout on our collet model tools.



Carbide Bur or Mounted Wheel Grinders

DOTCO®

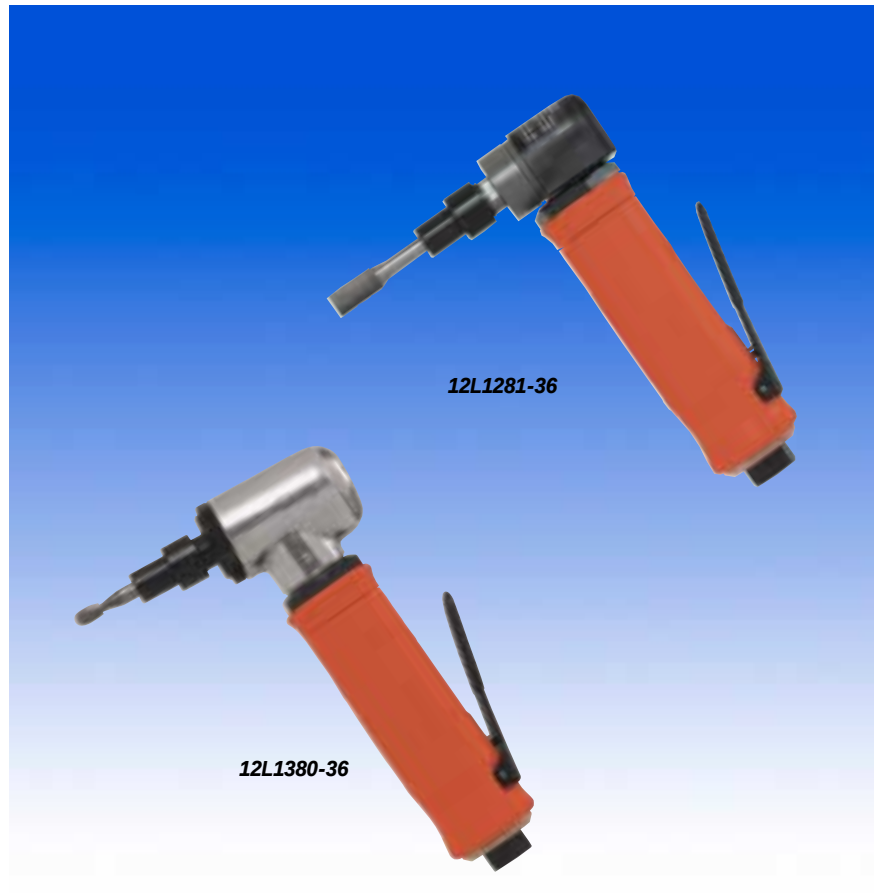
12-12 & 12-13 Series

Nominal Motor Power

0.3 hp

0.22 kW

- **Geared or Gearless**
- **Front or Rear Exhaust**
- **Suitable for wide range of finishing and deburring applications**
- **Contoured handle for operator comfort**



Tools must be ordered with lock-off lever throttle to be CE compliant. See ordering details below. ⚠

Model Number		Abrasives Capacity	Free Speed	Weight		Head Height*		Length		Collet Size
Front Exhaust	Rear Exhaust		rpm	lbs.	kgs	in.	mm	in.	mm	
12-12 Series – 0.3 hp (0.22 kW) – 300 Series Collet										
 12L1201-36 ♦	 12L1281-36 ♦	1/2" Carbide Bur, 1" Mtd. Wheel	20,000	1.1	0.5	2.7	69	6.3	160	1/4"
 12L1200-36 ♦	 12L1280-36 ♦	1/2" Carbide Bur, 1" Mtd. Wheel	12,000	1.1	0.5	2.7	69	6.3	160	1/4"
12-12 Series – 0.3 hp (0.22 kW) – Universal Collet										
12L1201-45	 12L1281-45	1/2" Carbide Bur, 1" Mt. Wheel	20,000	1.1	0.5	2.3	58	6.3	160	1/4"
12L1200-45	 12L1280-45	1/2" Carbide Bur, 1" Mt. Wheel	12,000	1.1	0.5	2.3	58	6.3	160	1/4"
12-13 Series – 0.3 hp (0.22 kW) – Gearless - 300 Series Collet										
12L1300-36	 12L1380-36	1/2" Carbide Bur, 1" Mt. Wheel	30,000	1.1	0.5	3.7	94	7.1	180	1/4"
12L1301-36	 12L1381-36	1/2" Carbide Bur, 1" Mt. Wheel	25,000	1.1	0.5	3.7	94	7.1	180	1/4"
 12L1302-36 ♦	 12L1382-36 ♦	1/2" Carbide Bur, 1" Mt. Wheel	20,000	1.1	0.5	3.7	94	7.1	180	1/4"
12-13 Series – 0.3 hp (0.22 kW) – Gearless - Universal Collet										
12L1300-45	12L1380-45	1/2" Carbide Bur, 1" Mt. Wheel	30,000	1.1	0.5	3.3	84	7.1	180	1/4"
12L1301-45	12L1381-45	1/2" Carbide Bur, 1" Mt. Wheel	25,000	1.1	0.5	3.3	84	7.1	180	1/4"
12L1302-45•	12L1382-45•	1/2" Carbide Bur, 1" Mt. Wheel	20,000	1.1	0.5	3.3	84	7.1	180	1/4"

* Over spindle

GENERAL:

Air Inlet: 1/4" NPT – Use 1/4" (4.8mm) I.D. Hose
All tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Applicable collet, collet wrenches, oilless blades(•) 

EXTRA EQUIPMENT:

Collets: See page 15, Overhose: See page 15

OPTIONAL THROTTLES:

For lock-off lever throttle, substitute "S" for "L" in model number.
For button throttle, substitute "B" for "L" in model number.

 Refer to Page 5 for description of Rapid Select.

♦ "S" models are also available as Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Carbide Bur or Mounted Wheel Grinders



DOTCO®

12-22 & 12-27 Series

Nominal Motor Power

0.6 & 0.9 hp

0.45 & 0.67 kW

■ **Rear Exhaust**

⚠ Tools must be ordered with lock-off lever throttle to be CE compliant. See ordering details below.

Model Number	Abrasives Capacity	Free Speed	Weight		Head Height*		Length		Collet Size	
Rear Exhaust		rpm	lbs.	kgs	in.	mm	in.	mm		
12-22 Series – 0.6 hp (0.45 kW) – 300 Series Collet										
 12L2218-36	1/2" Carbide Bur, 1" Mounted Wheel	18,000	1.7	0.8	2.7	69	7.5	191	1/4"	
12-22 Series – 0.6 hp (0.45 kW) – Universal Collet										
12L2218-45	1/2" Carbide Bur, 1" Mounted Wheel	18,000	1.7	0.8	2.7	69	7.5	191	1/4"	
12-27 Series – 0.6 hp (0.67 kW) – 300 Series Collet										
 12L2718-36	3/4" Carbide Bur, 1 1/4" Mounted Wheel	18,000	1.9	0.9	2.9	74	8.0	203	1/4"	
12-27 Series – 0.6 hp (0.67 kW) – Universal Collet										
12L2718-45	3/4" Carbide Bur, 1 1/4" Mounted Wheel	18,000	21.9	0.9	2.9	74	8.0	203	1/4"	

* Over spindle

GENERAL:

Air Inlet: 1/4" NPT – Use 5/16" (7.9mm) I.D. Hose
All tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Applicable collet, collet wrenches

EXTRA EQUIPMENT:

Collets: See page 15.
Overhose (rear exhaust); See page 15.

OPTIONAL THROTTLES:

For lock-off lever throttle, substitute "S" for "L" in model number.
For button throttle, substitute "B" for "L" in model number.

Refer to Page 5 for description of Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Air Marking Pen

DOTCO®

15Z Series

- In-line Piston Motor
- Sliding Sleeve Throttle
- Carbide Tipped Stylus
- Great for marking materials ranging from aluminum to titanium



15Z SERIES KIT

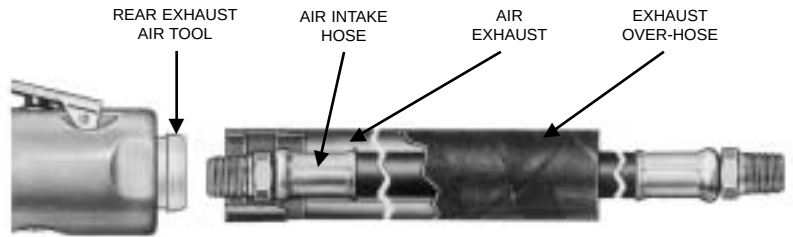


Model Number	Speed	Weight		Length		Diameter	
	spm	lbs.	kgs	in.	mm	in.	mm
15Z Series – 0.06 hp (0.044 kW)							
 15Z-710	20,000	4	0.1	5.5	140	0.6	15
15Z Series – Kit							
 15Z-720	20,000	4	0.1	5.5	140	0.6	15
GENERAL: Air Inlet: 1/8" NPT – Use 3/16" (4.7mm) I.D. hose All tools performance rated @ 90psi (620 kPa) air pressure.				STANDARD EQUIPMENT - 15Z-710 SERIES: Carbide tipped stylus  Refer to Page 5 for description of Rapid Select.			
				STANDARD EQUIPMENT - 15Z-720 SERIES: 15Z-710 Air Marking Pen Five (5) foot air hose assembly, 3/16" I.D. with 1/8" NPT fittings Two (2) 1/2" wrenches Carrying case EXTRA EQUIPMENT: Replacement carbide tipped stylus - 1018081			

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Overhose Assemblies

For use with Dotco series rear exhaust tools:



Tool Series	Complete Overhose Assembly	Overhose Only			Airhose Only		
		Number	Length		Number	Length	
			ft.	m		ft.	m
12-12, 12-13	45-2783	45-2629	2.0	0.6	45-1408	8.0	2.4
	45-2784	45-2687	4.0	1.2	45-1408	8.0	2.4
	45-2785	45-2688	2.0	2.4	45-1408	8.0	2.4

Collets

Part Number	Collet Size	Tool Termination	Capacity		Tool Series*		
			Min.	Max.	12-12	12-22 12-27	12-22 12-27
Universal Collets							
	7809	1/8"	-4508	—	1/8"		OPT
	7812	3/16"	-4512	—	3/16"		OPT
	7808	1/4"	-45	—	1/4"		STD
	7810	3mm	-45M3	—	3mm		OPT
	7811	6mm	-45M6	—	6mm		OPT
Series 200 Collets							
	204	1/8"	-0108	3/32"	1/8"		OPT
	205	5/32"	-0110	1/8"	5/32"		OPT
	206	3/16"	-0112	5/32"	3/16"		OPT
	207	7/32"	-0114	3/16"	7/32"		OPT
	208	1/4"	-01	7/32"	1/4"		STD
	209	9/32"	-0118	1/4"	9/32"		OPT
	210	5/16"	-0120	9/32"	5/16"		OPT
	211	11/32"	-0122	5/16"	11/32"		OPT
	212	3/8"	-0124	11/32"	3/8"		OPT
	213	6mm	-01M6	5.2mm	6mm		OPT
	216	8mm	-01M8	7.2mm	8mm		OPT
	Series 300 Collets						
	301	3/64"	-3603	1/64"	3/64"	OPT	OPT
	302	5/64"	-3605	3/64"	5/64"	OPT	OPT
	303	3/32"	-3606	1/16"	3/32"	OPT	OPT
	304	1/8"	-3608	3/32"	1/8"	OPT	OPT
	305	5/32"	-3610	1/8"	5/32"	OPT	OPT
	306	3/16"	-3612	5/32"	3/16"	OPT	OPT
	307	7/32"	-3614	3/16"	7/32"	OPT	OPT
	308	1/4"	-36	7/32"	1/4"	OPT	STD
	311	3mm	-36M3	2.2mm	3mm	OPT	OPT
	310	6mm	-36M6	5.2mm	6mm	OPT	OPT

* Std = Standard Collet
OPT = Optional Collet

Average dBA Reading of Tools at Free Speed

DOTCO Series Tools	dBA*
12-12	77-84
12-13	78-83
12-22	83
12-27	76-85
15Z	66-67

*dBA@Free Speed per ANSI S5.1, 1971

Grinders

Introduction

Cleco® and Buckeye® grinders meet the demanding requirements of industries including ship building, pipe fabricating, transportation equipment manufacturing, and welding applications. Since these types of applications typically require a high material removal rate, Cleco and Buckeye grinders incorporate high horsepower/high RPM motors. To achieve maximum durability, Cleco and Buckeye grinders use top quality precision components, and motor assemblies are protected by either aluminum or steel housings.

Grinder Abrasives Guide

Precision Grinders, Carbide Bur and Mounted Wheel Grinders

Used in finishing applications that require a high degree of durability. Buckeye and Cleco grinders feature steel housings for maximum protection. These models incorporate powerful motors for maximum stock removal.

Cone and Plug Wheels

Used for general purpose grinding work on mild steel, stainless steel, metal alloys, and cast steel. Applications include:

- Grinding and smoothing fillets, corners
- Mild bending contours
- Beveling workpiece edges prior to welding
- General grinding in confined areas
- Internal grinding

Type 1 Wheels

Used on portable horizontal shaft tools.

Applications Include:

- Notch free grinding
- Pre-weld cleaning
- Smoothing out weld seams
- Grinding concrete or masonry products
- Removing seam lines from castings

Type 6 and 11 Cup Wheels

Used on right angle or vertical shaft tools.

- Type 6 – Straight Cup Wheels
- Type 11 – Flared Cup Wheels

Type 27 Depressed Center Wheels

Used at an angle to the workpiece between 30° and 45°. These wheels do not "flat grind."

Type 28 Depressed Center Wheels

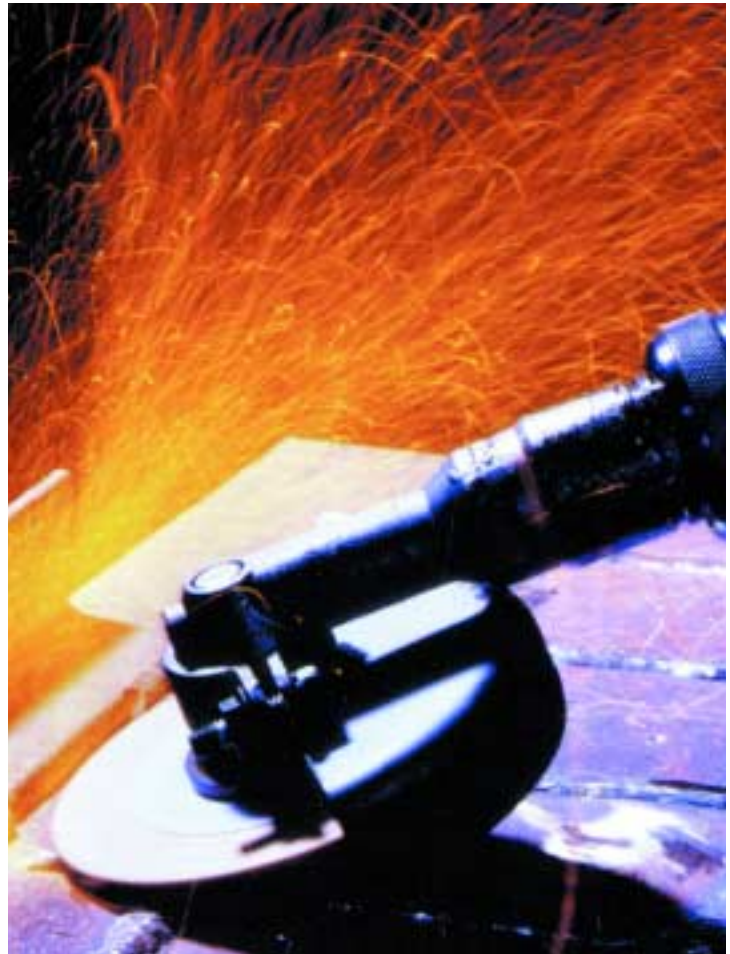
Saucer shaped wheels, which are contoured to provide a correct "built-in" grinding angle. Consequently, Type 28 wheels may be used for flat contact on the workpiece.

Cut-Off Wheels

Applications include cutting carbon and stainless steel, ferrous metals, and cast iron

Flap & Buff Wheel Machines

Applications include fine grinding and polishing on alloys, cast steel, aluminum



Cleco®

220G Series

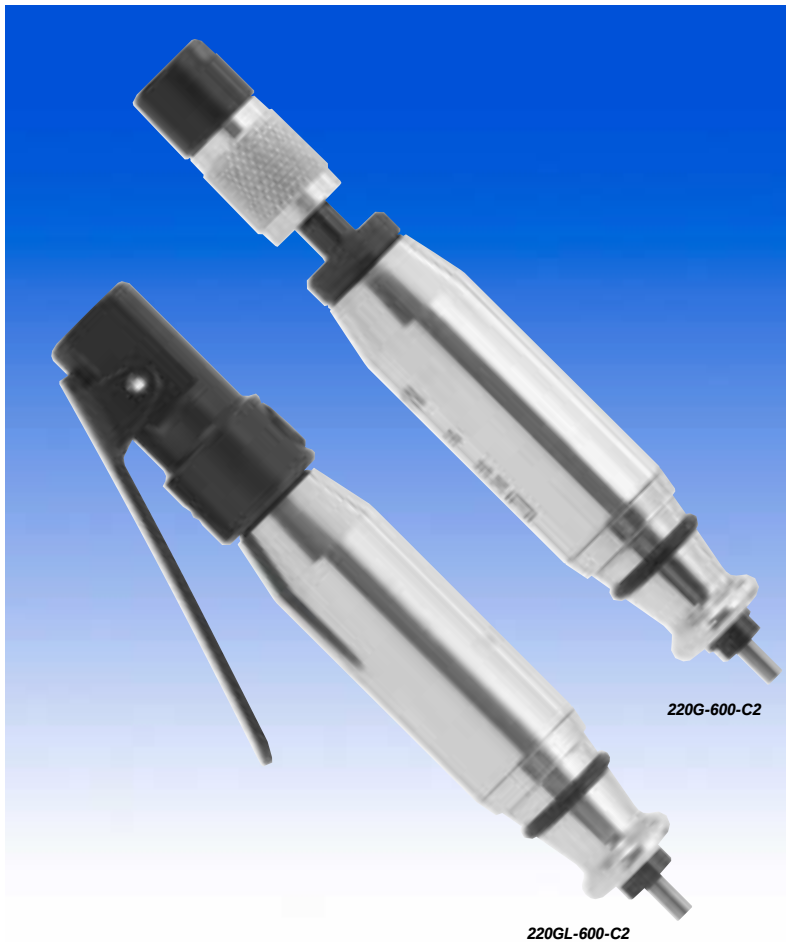
Nominal Motor Power

.1 hp

.074 kW

■ Front Exhaust

■ Lever or Push-Pull Throttle



220G-600-C2

220GL-600-C2

Model Number		Free Speed	Weight (tool only)		Length		Collet Size	Abrasive** Capacity
Tool Only	Kit*	rpm	oz.	kg	in.	mm		
Push-Pull Start – .1 hp (.74 kW)								
 220G-600-C1	220G-600-C1-K	60,000	4	0.11	4.6	118	3/32"	1/4" Carbide Burr
 220G-600-C2	 220G-600-C2-K	60,000	4	0.11	4.6	118	1/8"	1/4" Carbide Burr
220G-600-C3M		60,000	4	0.11	4.6	118	3mm	1/4" Carbide Burr
Lever Start – .1 hp (.74 kW)								
220GL-600-C1	220GL-600-C1-K	60,000	6	0.11	4.6	118	3/32"	1/4" Carbide Burr
220GL-600-C2	220GL-600-C2-K	60,000	6	0.11	4.6	118	1/8"	1/4" Carbide Burr
220GL-600-C3M		60,000	6	0.11	4.6	118	3mm	1/4" Carbide Burr

* Kit includes grinder, hose, collet, collet wrench, cylindrical plain burr (413680), cylindrical radius end burr (413681), cone & taper burr (413682), and tree point burr (413683).

** Mounted wheel capacity depends on wheel diameter, thickness and overhang. Consult wheel manufacturer for speed recommendations.

GENERAL:

Air Inlet: 1/8" NPTF

Minimum Hose Size: 3/16" (5mm)

Tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual
Collet, Collet Nut Wrench, Collet Locking Pin

OPTIONAL EQUIPMENT:

Additional Accessories: Pages 43-46

 Refer to page 5 for description of Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Precision Grinders

BUCKEYE®

14G & 18G Series

Nominal Motor Power

0.1 & 0.2 hp

0.074 & 0.15 kW

■ Steel Housing

■ Front Exhaust



14G-830-KIT



14G-810

Model Number	Housing	Abrasives Capacity	Free Speed	Weight		Length		Collet Size
Front Exhaust			rpm	lbs.	kgs	in.	mm	
14G Series – 0.1 hp (0.074 kW)								
 14G-810	Steel	1/4" Carbide Bur, 1/2" Mounted Wheel	50,000	0.3	0.1	3.9	99	1/8"
14G Series – 0.1 hp (0.074 kW) – Kit								
14G-820	Steel	1/4" Carbide Bur, 1/2" Mounted Wheel	50,000	0.3	0.1	3.9	99	1/8"
14G-830	Steel	1/4" Carbide Bur, 1/2" Mounted Whee	50,000	0.3	0.1	3.9	99	1/8"
18G Series – 0.2 hp (0.015 kW)								
 18G-810D	Steel	1/4" Carbide Bur, 1/2" Mounted Wheel	40,000	0.9	0.7	5.9	150	1/4"

NOTE: Capacities for the above models are for non-reinforced wheels. Refer to wheel manufacturer for speed capacities on reinforced wheels.

GENERAL:

Air Inlet: 1/8" NPT – Use 1/8" (3.2mm) I.D. Hose

All Tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT - 18G SERIES:

1/4" collet - 7808, Nosepiece - 1011790,

7/16" Spindle Wrench - 1011691,

11/16" Collet Nut Wrench - 1014472

 Refer to page 5 for description of Rapid Select.

OPTIONAL EQUIPMENT - 18G SERIES:

No extra cost: Any one of the collets show on page 46 may be furnished in place of standard equipment if ordered with the tool.

STANDARD EQUIPMENT - 14G-810:

Two collet wrenches - 1006626, Nosepiece - 1010896

STANDARD EQUIPMENT - 14G-820 & 14G-830 (KIT):

Two collet wrenches - 1006626

Three grinding wheels - 1005327, 1005338, 1005344

Dressing stone - 1004908

Hose assembly - 1021393

Carrying case - 1021743

Filter-Lubricator (14G-830) - 1020888

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Carbide Bur & Mounted Wheel Grinders

Cleco®

116 & 136 Series

Nominal Motor Power

0.7 & 0.9 hp

0.52 & 0.67 kW

■ **Steel Housing**

■ **Front, Side & Rear Exhaust**



Model Number		Free Speed	Max. Power		Exhaust	Weight		Length		Collet Size	Abrasive** Capacity	
Tool Only	Kit*	rpm	hp	kw		lbs.	kg	in.	mm			
116 Series												
	116GLFB-250-C3		25,000	0.6	0.4	Front	1.8	0.8	6.3	160	3/16"	3/4" Carbide Burr
	116GLFB-250-C4	116GLFB-250-C4-K	25,000	0.6	0.4	Front	1.8	0.8	6.3	160	1/4"	3/4" Carbide Burr
	116GLSB-250-C3		25,000	0.6	0.4	Side	1.8	0.8	6.3	160	3/16"	3/4" Carbide Burr
	116GLSB-250-C4	116GLSB-250-C4-K	25,000	0.6	0.4	Side	1.8	0.8	6.3	160	1/4"	3/4" Carbide Burr
	116GLSB-250-C5		25,000	0.6	0.4	Side	1.8	0.8	6.3	160	5/16"	3/4" Carbide Burr
	116GLSB-250-C6		25,000	0.6	0.4	Side	1.8	0.8	6.3	160	3/8"	3/4" Carbide Burr
	116GLSB-250-C6M		25,000	0.6	0.4	Side	1.8	0.8	6.3	160	6mm	3/4" Carbide Burr
136 Series												
	136GLR-250-C4		25,000	0.8	0.6	Rear	1.9	0.9	7.4	188	1/4"	1" Carbide Burr
	136GLF-250-C4		25,000	0.8	0.6	Front	2.0	0.9	6.8	173	1/4"	1" Carbide Burr
	136GLS-240-C4		24,000	0.8	0.6	Side	2.0	0.9	6.8	173	1/4"	1" Carbide Burr
	136GLR-200-C4		20,000	0.7	0.5	Rear	1.9	0.9	7.4	188	1/4"	1" Carbide Burr
	136GLS-180-C4		18,000	0.6	0.4	Side	2.0	0.9	6.8	173	1/4"	1" Carbide Burr
	136GLF-180-C4		18,000	0.6	0.4	Front	2.0	0.9	6.8	173	1/4"	1" Carbide Burr
	136GLR-180-C4		18,000	0.6	0.4	Rear	1.9	0.9	7.4	188	1/4"	1" Carbide Burr

* Kit includes grinder, hose, collet, collet wrench, cylindrical plain burr (889006), cone round end burr (889103), ball burr (889048), tree radius burr (889967), and case.

**Mounted wheel capacity depends on wheel diameter, thickness and overhang. Consult wheel manufacturer for speed recommendations.

GENERAL:

Air Inlet: 1/4" NPTF

Minimum Hose Size: 1/4" (116 series), 5/16" (136 series)

Tool performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual
Collet & Collet Wrenches

OPTIONAL EQUIPMENT:

Additional Accessories: Pages 43-46

Refer to page 5 for description of Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Screwdrivers

BUCKEYE®

21G, 31G & 42G Series

Nominal Motor Power

0.3, 0.6 & 0.9 hp

0.22, 0.45, 0.67 kW

■ Aluminum or Steel Housing

■ Front or Rear Exhaust



Model Number		Housing	Abrasives Capacity	Free Space	Weight		Length*		Collet Size
Front Exhaust	Rear Exhaust			rpm	lbs.	kgs	in.	mm	
21G Series – 0.3 hp (0.22 kW) – Universal Collet									
 21G-510	21GR-510	Aluminum	1/2" Carbide Bur, 1" Mtd. Wheel	25,000	1.0	0.5	6.1	155	1/4"
31G Series – 0.6 hp (0.45 kW) – Universal Collet									
 31G-610	31GR-610	Steel	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	20,000	2.6	1.2	6.8	173	1/4"
31G-510	 31GR-510	Aluminum	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	20,000	1.6	0.7	6.8	173	1/4"
31G Series – 0.6 hp (0.45 kW) – Extended – Universal Collet									
31G-620	31GR-620	Steel	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	20,000	3.9	1.8	12.6	320	1/4"
31G-520	31GR-520	Aluminum	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	20,000	2.9	1.3	12.6	320	1/4"
42G Series – 0.9 hp (0.67 kW) – 200 Series Collet									
42GS-510	42GSR-510	Steel	1" Carbide Bur, 1 1/2" Mtd. Wheel	20,000	2.4	1.1	6.4	163	1/4"
42G-510	42GR-510	Aluminum	1" Carbide Bur, 1 1/2" Mtd. Wheel	20,000	1.4	0.6	6.4	163	1/4"
42G Series – 0.9 hp (0.67 kW) – 300 Series Collet									
42GS-560	42GSR-560	Steel	1" Carbide Bur, 1 1/2" Mtd. Wheel	20,000	2.4	1.1	7.1	180	1/4"
42G-560	42GR-560	Aluminum	1" Carbide Bur, 1 1/2" Mtd. Wheel	20,000	1.4	0.6	7.1	180	1/4"

* For 21G & 31G series rear exhaust models, add 0.6" (18mm)
For 42G series rear exhaust models, add 0.9" (23mm)

GENERAL:

Air Inlet: 1/4" NPT – Use 5/16" (7.9mm) I.D. Hose

All Tools performance rated @ 90psi (620 kPa) air pressure.

Refer to page 5 for description of Rapid Select.

STANDARD EQUIPMENT:

Applicable collet, collet wrenches

EXTRA EQUIPMENT:

Collets: See page 46

Overhose (rear exhaust): See page 45

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Carbide Bur & Mounted Wheel Grinders

Cleco®

136 & 15 Extended Series

Nominal Motor Power
0.9 & 1.3 hp
0.67 & 0.97 kW

- Extended Housing
- Rugged Steel Housing



Model Number	Free Speed	Max. Power		Exhaust	Weight		Length		Collet Size	Abrasive* Capacity
Tool Only	rpm	hp	kw		lbs.	kg	in.	mm		
136 Series										
 136GELR-250-C4	25,000	0.8	0.6	Rear	3.4	1.5	13.0	330	1/4"	1" Carbide Burr
136GEL-240-C3	24,000	0.8	0.6	Side	3.5	1.6	12.4	315	3/16"	1" Carbide Burr
 136GEL-240-C4	24,000	0.8	0.6	Side	3.5	1.6	12.4	315	1/4"	1" Carbide Burr
136GEL-240-C5	24,000	0.8	0.6	Side	3.5	1.6	12.4	315	1/4"	1" Carbide Burr
136GELR-200-C4	20,000	0.7	0.5	Rear	3.4	1.5	13.0	330	1/4"	1" Carbide Burr
15 Series - Non-governed										
15NGEL-180-C4	18,000	1.0	0.7	Side	4.3	2.0	13.5	343	1/4"	1 1/4" Carbide Burr
15 Series - Governed										
 15GELC-180-C4	18,000	1.2	0.9	Side	4.3	2.0	14.5	368	1/4"	1 1/4" Carbide Burr

* Mounted wheel capacity depends on wheel diameter, thickness and overhang. Consult wheel manufacturer for speed recommendations.

GENERAL:

Air Inlet: 1/4" NPTF (136 & non-governed 15 series);
3/8" (governed 15 series)
Minimum Hose Size: 5/16" (136 & non-governed 15 series),
3/8" (governed 15 series)
Tool performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual
Collet & Collet Wrenches

OPTIONAL EQUIPMENT:

Collets: Page 44
Additional Accessories: Pages 43-46

 Refer to page 5 for description of Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Carbide Bur & Mounted Wheel Grinders

BUCKEYE®

42H Series

Nominal Motor Power

0.9 hp

0.67 kW

■ Aluminum or Steel Housing

■ One Piece Steel Angle head

■ Front or Rear Exhaust



Model Number		Housing	Abrasives Capacity	Free Space	Weight		Length		Collet Size
Front Exhaust	Rear Exhaust			rpm	lbs.	kgs	in.	mm	
42H Series – 0.9 hp (0.67 kW) – 300 Series Collet									
42HS-563	42HSR-563	Steel	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	14,500	3.2	1.4	10.8	274	1/4"
42H-563	42HR-563	Aluminum	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	14,500	2.5	1.1	10.8	274	1/4"
42HS-562	42HSR-562	Steel	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	13,500	3.2	1.4	10.8	274	1/4"
42H-562	42HR-562	Aluminum	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	13,500	2.5	1.1	10.8	274	1/4"
42HS-561	42HSR-561	Steel	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	12,000	3.2	1.4	10.8	274	1/4"
42H-561	42HR-561	Aluminum	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	12,000	2.5	1.1	10.8	274	1/4"
42H Series – 0.9 hp (0.67 kW) – Universal Collet									
42HS-553	42HSR-553	Steel	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	14,500	3.2	1.4	10.8	274	1/4"
42H-553	42HR-553	Aluminum	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	14,500	2.5	1.1	10.8	274	1/4"
42HS-552	42HSR-552	Steel	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	13,500	3.2	1.4	10.8	274	1/4"
42H-552	42HR-552	Aluminum	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	13,500	2.5	1.1	10.8	274	1/4"
42HS-551	42HSR-551	Steel	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	12,000	3.2	1.4	10.8	274	1/4"
42H-551	42HR-551	Aluminum	3/4" Carbide Bur, 1 1/2" Mtd. Wheel	12,000	2.5	1.1	10.8	274	1/4"

GENERAL:

Air Inlet: 1/4" NPT - Use 5/16" (7.9mm) I.D. Hose
All Tools performance rated @ 90psi (620 kPa) air pressure.

EXTRA EQUIPMENT:

Collets: See page 44
Overhose (rear exhaust): See page 44

STANDARD EQUIPMENT- 18G SERIES:

Applicable collet, collet wrenches

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Carbide Bur & Mounted Wheel Grinders

Cleco®

116 & 136 Right Angle Series

Nominal Motor Power

0.7 & 0.9 hp

0.52 & 0.67 kW



Model Number	Free Speed	Max. Power		Exhaust	Weight		Length		Collet Size	Abrasive* Capacity
	rpm	hp	kw		lbs.	kg	in.	mm		
116 Series - Heavy Duty Head										
116GLF-115A-C4	11,500	0.6	0.4	Front	3.3	1.5	7.1	180	1/4"	1" Carbide Burr
116GLS-115A-C4	11,500	0.6	0.4	Side	3.3	1.5	7.1	180	1/4"	1" Carbide Burr
136 Series - Heavy Duty Head										
136GLF-115A-C4	11,500	0.8	0.6	Front	3.5	1.6	7.6	193	1/4"	1" Carbide Burr
136GLS-115A-C4	11,500	0.8	0.6	Side	3.5	1.6	7.6	193	1/4"	1" Carbide Burr
136GLR-115A-C4	11,500	0.8	0.6	Rear	3.4	1.5	8.3	211	1/4"	1" Carbide Burr
116 Series - Extended Head										
116GLFC-135A-C4	13,500	0.5	0.4	Front	2.6	1.2	9.1	231	1/4"	3/4" Carbide Burr
116GLFC-165A-C3	16,500	0.6	0.4	Front	2.6	1.2	9.1	231	3/16"	3/4" Carbide Burr
 116GLFC-165A-C4	16,500	0.6	0.4	Front	2.6	1.2	9.1	231	1/4"	3/4" Carbide Burr
116GLFC-165A-C5	16,500	0.6	0.4	Front	2.6	1.2	9.1	231	5/16"	3/4" Carbide Burr
116GLFC-165A-C6	16,500	0.6	0.4	Front	2.6	1.2	9.1	231	3/8"	3/4" Carbide Burr
116GLFC-165A-C6M	16,500	0.6	0.4	Front	2.6	1.2	9.1	231	6mm	3/4" Carbide Burr
116GLSC-165A-C4	16,500	0.6	0.4	Side	2.6	1.2	9.1	231	1/4"	3/4" Carbide Burr

* Mounted wheel capacity depends on wheel diameter, thickness and overhang. Consult wheel manufacturer for speed recommendations.

GENERAL:

Air Inlet: 1/4" NPT

Minimum Hose Size: 1/4" (116 series), 5/16" (136 series)

Tool performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual

Collet & Collet Wrenches

OPTIONAL EQUIPMENT:

Collets: Pages 44

Additional Accessories: Pages 43-46

 Refer to page 5 for description of Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Cone & Plug Wheel Grinders

Cleco®

136 Extended Series

Nominal Motor Power
0.9 hp
0.67 kW

- Extended Series
- Side & Rear Exhaust
- Steel Housing



Model Number	Free Speed	Max. Power		Exhaust	Weight		Length		Spindle Thread	Cone/Plug Capacity
	rpm	hp	kw		lbs.	kg	in.	mm		
136 Series										
136GELR-250-P3T	25,000	0.8	0.6	Rear	3.4	1.5	12.9	328	3/8"-24	1 1/4"
136GELR-250-P4T	25,000	0.8	0.6	Rear	3.4	1.5	12.9	328	1/2"-13	1 1/4"
136GEL-240-P3T	24,000	0.8	0.6	Side	3.5	1.6	12.3	312	3/8"-24	1 1/4"
136GEL-240-P4T	24,000	0.8	0.6	Side	3.5	1.6	12.3	312	1/2"-13	1 1/4"
136GELR-200-P3T	20,000	0.7	0.5	Rear	3.4	1.5	12.9	328	3/8"-24	1 1/2"
136GELR-200-P4T	20,000	0.7	0.5	Rear	3.4	1.5	12.9	328	1/2"-13	1 1/2"
136GELR-180-P3T	18,000	0.6	0.4	Rear	3.4	1.5	12.9	328	3/8"-24	1 1/2"
136GELR-180-P4T	18,000	0.6	0.4	Rear	3.4	1.5	12.9	328	1/2"-13	1 1/2"
136 Series - 6" Extended										
136GELR-250-6P3T	25,000	0.8	0.6	Rear	3.9	1.8	18.9	480	3/8"-24	1 1/4"
136GEL-240-6P3T	24,000	0.8	0.6	Side	4.0	1.8	18.3	465	3/8"-24	1 1/4"
136GELR-200-6P3T	20,000	0.7	0.5	Rear	3.9	1.8	18.9	480	3/8"-24	1 1/2"
136GELR-180-6P3T	18,000	0.6	0.4	Rear	3.9	1.8	18.9	480	3/8"-24	1 1/2"

GENERAL:

Air Inlet: 1/4" NPT
Minimum Hose Size: 5/16"
Tool performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual

OPTIONAL EQUIPMENT:

Additional Accessories: Pages 43-46

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Cone & Plug Wheel Grinders



BUCKEYE®

42G & 61G Series

Nominal Motor Power

0.9 & 1.7 hp

0.67 & 1.27 kW

■ **Aluminum or Steel Housing**

■ **Governed or Non-Governed**

■ **Throttle Handle**
Rotates 360° (61G)

■ **Front, Side or Rear Exhaust**

Model Number			Housing	Abrasives Capacity	Free Space	Weight**		Length**		Collet Size
Front Exhaust	Side Exhaust	Side Exhaust			rpm	lbs.	kgs	in.	mm	
42G Series – 0.9 hp (0.67 kW)										
42GS-500		42GSR-500	Steel	1 1/4" Cone or Plug Wheel	22,000	1.3	0.6	6.0	152	3/8"-24
42G-500		42GR-500	Aluminum	1 1/4" Cone or Plug Wheel	22,000	1.5	0.7	6.0	152	3/8"-24
61G Series – 1.7 hp (1.27 kW)										
	61G-542		Steel	2 1/4" Cone or Plug Wheel	15,000*	5.5	2.5	17.4	442	5/8"-11
	61G-543		Steel	3" Cone or Plug Wheel	12,000*	5.5	2.5	17.4	442	5/8"-11

* Governor controlled speeds

**For rear exhaust models add 0.7 lb (0.3 kg), and 1.0" (25mm)

GENERAL:

Air Inlet: 42G" 1/4" NPT – Use 5/16" (7.9mm) I.D. Hose

61G" 3/8" NPT – Use 3/8" (9.5mm) I.D. Hose

STANDARD EQUIPMENT:

Spindle wrench

EXTRA EQUIPMENT:

Overhose (rear exhaust): See page 45

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

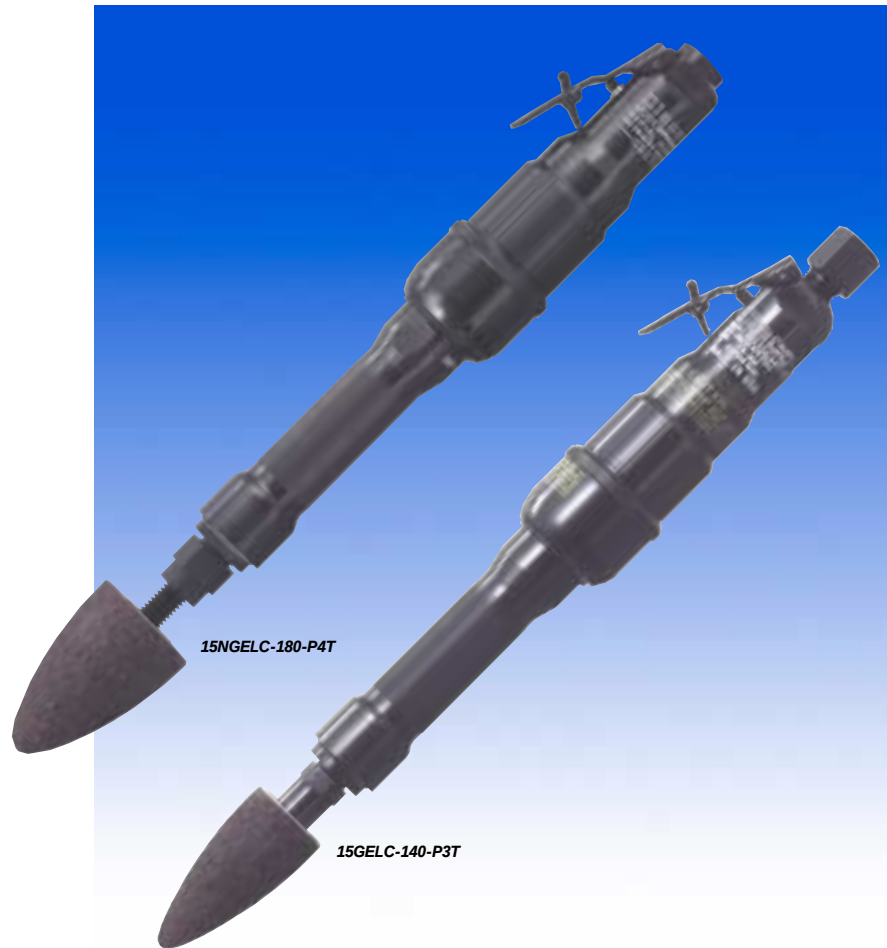
Cone & Plug Wheel Grinders

Cleco®

15 Extended & 500B Horizontal Series

Nominal Motor Power
1.3 & 2.5 hp
0.97 & 1.9 kW

- Steel Housing
- Side Exhaust
- Governed or Non-Governed (15 series)
- Rotatable Exhaust Deflector



Model Number	Free Speed	Max. Power		Weight		Length		Spindle Thread	Cone/Plug Capacity
	rpm	hp	kw	lbs.	kg	in.	mm		
15 Extended Series - Non-governed									
15NGELC-180-P3T	18,000	1.0	0.7	4.3	2.0	13.5	343	3/8"-24	2"
15NGELC-180-P4T	18,000	1.0	0.7	4.3	2.0	13.6	345	1/2"-13	2"
15NGELC-180-P5T	18,000	1.0	0.7	4.5	2.0	13.9	353	5/8"-11	2"
15 Extended Series - Governed									
15GELC-180-P3T	18,000	1.2	0.9	4.3	2.0	14.5	368	3/8"-24	2"
15GELC-180-P4T	18,000	1.2	0.9	4.3	2.0	14.6	371	1/2"-13	2"
15GELC-180-P5T	18,000	1.2	0.9	4.5	2.0	14.9	378	5/8"-11	2"
15GELC-140-P3T	14,000	1.1	0.8	4.3	2.0	14.5	368	3/8"-24	2"
15GELC-140-P4T	14,000	1.1	0.8	4.3	2.0	14.6	371	1/2"-13	2"
15GELC-140-P5T	14,000	1.1	0.8	4.5	2.0	14.9	378	5/8"-11	2"
15GELC-120-P3T	12,000	1.0	0.7	4.3	2.0	14.5	368	3/8"-24	2"
15GELC-120-P4T	12,000	1.0	0.7	4.3	2.0	14.6	371	1/2"-13	2 1/2"
15GELC-120-P5T	12,000	1.0	0.7	4.5	2.0	14.9	378	5/8"-11	2 1/2"
15GELC-90-P5T	9,000	0.9	0.7	4.5	2.0	14.9	378	5/8"-11	2 1/2"
500B Horizontal Series									
590BHL-P	9,000	2.1	1.6	7.6	3.4	17.9	455	5/8"-11	3"
 5120BHL-P	12,000	2.4	1.8	7.6	3.4	17.9	455	5/8"-11	3"

GENERAL:

Air Inlet: 1/4" NPT
Minimum Hose Size: 5/16"
Tool performance rated @ 90psi (620 kPa) air pressure.

 Refer to page 5 for description of Rapid Select.

STANDARD EQUIPMENT:

Operating instructions & service manual

OPTIONAL EQUIPMENT:

Additional Accessories: Pages 43-46

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Cleco®

136 Series

Nominal Motor Power
0.9 hp
0.67 kW

- Steel Housing
- Short & Extended
- Side & Rear Exhaust



Model Number	Free Speed	Max. Power		Exhaust	Weight w/Guard		Length		Spindle Thread	Type 1 Wheel Capacity	Wheel Guard Size
	rpm	hp	kw		lbs.	kg	in.	mm			
136 Series											
136GLR-250-W3T25	25,000	0.8	0.6	Rear	2.3	1.0	7.3	185	3/8"-24	2 1/2" x 1/2"	2 1/2"
136GLR-200-W3T3	20,000	0.7	0.5	Rear	2.4	1.1	7.3	185	3/8"-24	3" x 1/2"	3"
136GLR-180-W3T3	18,000	0.6	0.4	Rear	2.4	1.1	7.3	185	3/8"-24	3" x 1/2"	3"
136GLR-150-W3T3	15,000	0.5	0.4	Rear	2.4	1.1	7.3	185	3/8"-24	3" x 1/2"	3"
136 Series - Extended											
136GELR-250-W3T25	25,000	0.8	0.6	Rear	3.9	1.8	12.9	328	3/8"-24	2 1/2" x 1/2"	2 1/2"
136GEL-240-W3T25	24,000	0.8	0.6	Side	4.0	1.8	12.3	312	3/8"-24	2 1/2" x 1/2"	2 1/2"
136GELR-200-W3T3	20,000	0.7	0.5	Rear	4.0	1.8	12.9	328	3/8"-24	3" x 1/2"	3"
136GELR-200-W4T3	20,000	0.7	0.5	Rear	4.0	1.8	13.0	330	1/2"-13	3" x 1/2"	3"
136GELR-180-W3T3	18,000	0.6	0.4	Rear	4.0	1.8	12.9	328	3/8"-24	3" x 1/2"	3"
136GELR-180-W4T3	18,000	0.6	0.4	Rear	4.0	1.8	13.0	330	1/2"-13	3" x 1/2"	3"
136GELR-150-W3T3	15,000	0.5	0.4	Rear	4.0	1.8	12.9	328	3/8"-24	4" x 1/2"	3"
136GELR-150-W4T3	15,000	0.5	0.4	Rear	4.0	1.8	13.0	330	1/2"-13	4" x 1/2"	3"

GENERAL:

Air Inlet: 1/4" NPT
Minimum Hose Size: 5/16"
Tool performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual
Wheel Guard & Flange Wrench

OPTIONAL EQUIPMENT:

Wheel Guards: Page 43
Additional Accessories: Pages 43-46

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Type 1 Wheel Grinders

BUCKEYE®

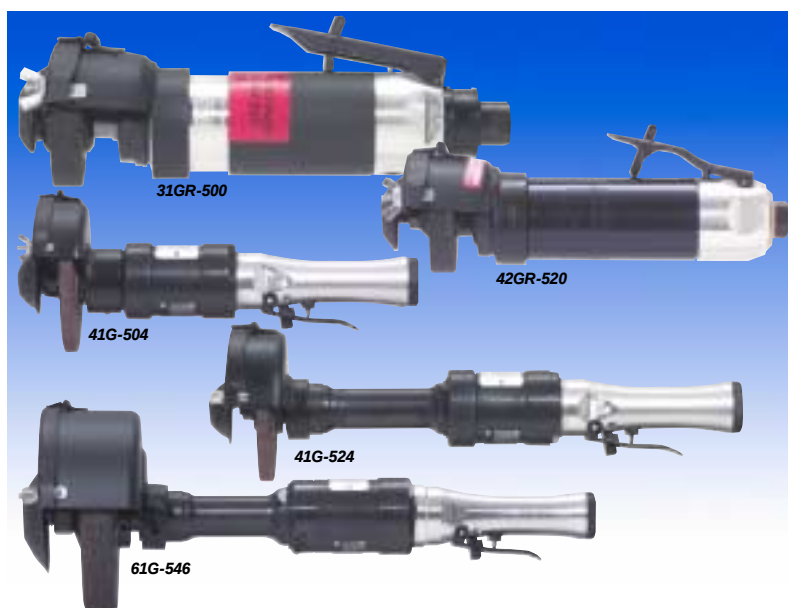
31G, 41G, 42G & 61G Series

Nominal Motor Power

0.6, 0.9 & 1.7hp

0.45, 0.67 & 1.27 kW

- Aluminum or Steel Housing
- Governed or Non-Governed
- Front, Side or Rear Exhaust



Model Number			Housing	Type 1 Wheel Capacity	Free Space	Weight*		Length*		Collet Size
Front Exhaust	Rear Exhaust	Side Exhaust			rpm	lbs.	kgs	in.	mm	
31G Series – 0.6 hp (0.45 kW)										
31G-600	31GR-600		Steel	1 3/4" x 3/8"	20,000	2.6	1.2	6.5	165	3/8"-24
31G-500	31GR-500		Aluminum	1 3/4" x 3/8"	20,000	1.6	0.7	6.5	165	3/8"-24
42G Series -- 0.9 hp (0.67 kW)										
42GS-520	42GSR-520		Steel	2" x 1/2"	22,000	1.9	0.9	6.9	175	1/4"-28
42G-520	42GR-520		Aluminum	2" x 1/2"	22,000	3.4	1.5	6.9	175	1/4"-28
41G Series – 0.9 hp (0.67 kW) – Governed										
		41G-501	Steel	2" x 1/2"	18,000	3.6	1.6	12.5	318	3/8"-24
		41G-502	Steel	2 1/2" x 1/2"	15,000	3.6	1.6	12.5	318	3/8"-24
		41G-503	Steel	3" x 1/2"	12,000	3.6	1.6	12.5	318	3/8"-24
		41G-504	Steel	4" x 1/2"	9,000	3.6	1.6	12.5	318	3/8"-24
41G Series – 0.9 hp (0.67 kW) – Extended - Governed										
		41G-521	Steel	2" x 1/2"	18,000	4.3	2.0	15.0	381	3/8"-24
		41G-522	Steel	2 1/2" x 1/2"	15,000	4.3	2.0	15.0	381	3/8"-24
		 41G-523	Steel	3" x 1/2"	12,000	4.3	2.0	15.0	381	3/8"-24
		41G-524	Steel	4" x 1/2"	9,000	4.3	2.0	15.0	381	3/8"-24

Model Number			Type 1 Wheel Capacity	Free Space	Weight*		Length*	
3/8"-24 Spindle	1/2"-13 Spindle	5/8"-11 Spindle		rpm	lbs.	kgs	in.	mm
61G Series – 1.7 hp (1.27 kW)								
61G-522	61G-532		2 1/2" x 3/4"	15,000	5.4	2.4	16.3	414
61G-523	61G-533		3" x 3/4"	12,000	5.4	2.4	16.3	414
61G-524	61G-534	61GR-544	4" x 3/4"	9,000	5.4	2.4	16.3	414
61G-525	61G-535		4" x 3/4"	7,200	5.4	2.4	16.3	414
61G-526			4" x 3/4"	6,000	5.4	2.4	16.3	414
		61G-545	5" x 3/4"	7,200	5.4	2.4	16.3	414
	61G-536	61G-546	6" x 3/4"	6,000	5.4	2.4	16.3	414

* For weight and length of 42G series rear exhaust models add 1.5 lb (0.7kg) and 1.0" (25mm)

* For weight and length of 1/2-13 spindle models add 0.1 lb (0.05kg) and 0.3" (8mm)

For weight and length of 5/8-11 spindle models add 0.5 lb (0.2kg) and 1.1" (28mm)

GENERAL:

Air Inlet: 42G" 1/4" NPT - Use 5/16" (7.9mm) I.D. Hose

61G" 3/8" NPT - Use 3/8" (9.5mm) I.D. Hose

All tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Wheel guard, wheel flange, spindle nut, spindle wrench

EXTRA EQUIPMENT:

Overhose (rear exhaust): See page 44

Refer to page 5 for description of Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Cleco®

116 & 136 Right Angle Series

Nominal Motor Power

0.7 & 0.9 hp

0.52 & 0.67 kW

■ Steel Housing

■ Front, Side & Rear Exhaust



Model Number	Free Speed	Max. Power		Exhaust	Weight w/Guard		Length		Head Height		Type 1 Wheel Capacity	Wheel Guard Size
3/8"-24 Spindle	rpm	hp	kw		lbs.	kg	in.	mm	in.	mm		
116 Series - Heavy Duty Head												
 116GLF-115A-W3T4	11,500	0.6	0.4	Front	3.6	1.6	7.1	180	3.2	81	4" x 1/8"	4"
116GLS-115A-W3T5	11,500	0.6	0.4	Side	3.6	1.6	7.1	180	3.2	81	4" x 1/8"	5"
136 Series - Heavy Duty Head												
136GLF-115A-W3T5	11,500	0.8	0.6	Front	3.9	1.8	7.6	193	3.2	81	4" x 1/8"	5"
136GLS-115A-W3T5	11,500	0.8	0.6	Side	3.9	1.8	7.6	193	3.2	81	4" x 1/8"	5"
 136GLR-115A-W3T4	11,500	0.8	0.6	Rear	3.8	1.7	8.3	211	3.2	81	4" x 1/8"	4"
116 Series - Extended Head												
116GLFB-135A-W3T3	13,500	0.5	0.4	Front	3.0	1.4	9.1	231	2.2	56	4" x 1/8"	3"
116GLFB-135A-W3T4	13,500	0.5	0.4	Front	3.0	1.4	9.1	231	2.2	56	4" x 1/8"	4"
116GLSB-135A-W3T4	13,500	0.5	0.4	Side	3.0	1.4	9.1	231	2.2	56	4" x 1/8"	4"
116GLFB-165A-W3T3	16,500	0.6	0.4	Front	2.9	1.3	9.1	231	2.2	56	3" x 1/8"	3"
116GLSB-165A-W3T3	16,500	0.6	0.4	Side	2.9	1.3	9.1	231	2.2	56	3" x 1/8"	3"
136 Series - Extended Head												
 136GLFB-135A-W3T4	13,500	0.7	0.5	Front	3.3	1.5	9.6	244	2.2	56	4" x 1/8"	4"
 136GLSB-135A-W3T4	13,500	0.7	0.5	Side	3.3	1.5	9.6	244	2.2	56	4" x 1/8"	4"
136GLRB-135A-W3T4	13,500	0.7	0.5	Rear	3.1	1.4	10.3	262	2.2	56	4" x 1/8"	4"
136GLFB-165A-W3T3	16,500	0.8	0.6	Front	3.1	1.4	9.6	244	2.2	56	3" x 1/8"	3"
136 Series - Extended Backhead												
136GELR-115A-W3T4	11,500	0.8	0.6	Rear	4.8	2.2	10.3	262	3.2	81	4" x 1/8"	4"
136GELRB-135A-W3T4	13,500	0.8	0.6	Rear	4.1	1.9	12.3	312	2.2	56	4" x 1/8"	4

GENERAL:

Air Inlet: 1/4" NPT

Minimum Hose Size: 1/4" (116 series), 5/16" (136 series)

Tool performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual

Wheel Guard, Wheel Adapter, Spindle Wrench

OPTIONAL EQUIPMENT:

Wheel Guards: Page 43

Additional Accessories: Pages 43-46

Refer to page 5 for description of Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Type 1 Wheel Grinders

Cleco®

15 Right Angle Series

Nominal Motor Power
1.3 hp
0.97 kW

- Steel Housing
- Side Exhaust
- Governor Controlled Speed



Model Number	Free Speed	Max. Power		Weight w/Guard		Length		Head Height		Type 1 Wheel Capacity	Wheel Guard Size
3/8"-24 Spindle	rpm	hp	kw	lbs.	kg	in.	mm	in.	mm		
15 Series - Lock-Off Lever Throttle											
15GL-60A-W5T7	6,000	1.1	0.8	7.1	3.2	10.0	254	4.0	102	7" x 1/8"	7"
15GL-77A-W5T7	7,700	1.2	0.9	7.1	3.2	10.0	254	4.0	102	7" x 1/8"	7"
15GL-85A-W5T7	8,000	1.2	0.9	7.1	3.2	10.0	254	4.0	102	7" x 1/8"	7"

GENERAL: Air Inlet: 3/8" NPT Minimum Hose Size: 3/8" Spindle length: 31/32" Tool performance rated @ 90psi (620 kPa) air pressure.	STANDARD EQUIPMENT: Operating instructions & service manual Wheel Guard OPTIONAL EQUIPMENT: Wheel Guards: Page 43 Additional Accessories: Pages 43-46
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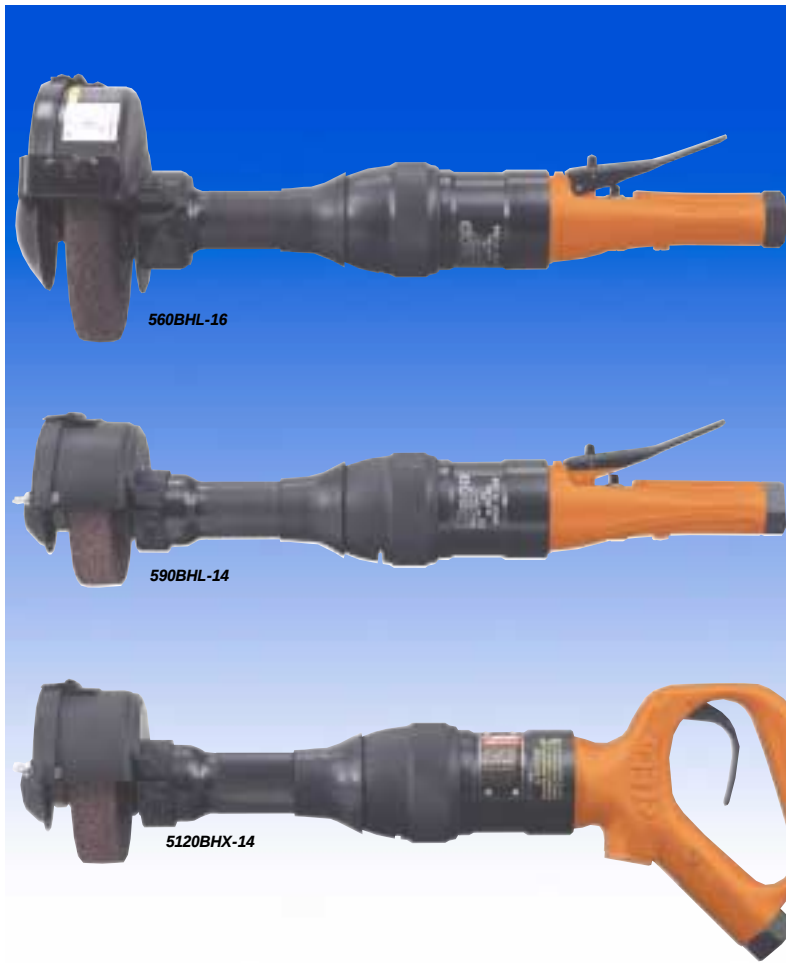
WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Cleco®

500B Horizontal Series

Nominal Motor Power
2.5 hp
1.86 kW

- Rotatable Exhaust Deflector
- Incline Lever or Spade Handle
- Steel Motor Housing



Model Number	Free Speed	Max. Power		Weight w/Guard		Length		Arbor Size	Type 1 Wheel Capacity	Wheel Guard Size
	rpm	hp	kw	lbs.	kg	in.	mm			
500B Series - Lock-off Lever Throttle										
 560BHL-16	6,000	1.9	1.4	10.8	4.9	18.4	467	5/8"	6" x 1"	6"
590BHL-14	9,000	2.2	1.6	8.9	4.0	18.4	467	5/8"	4" x 1"	4"
5120BHL-14	12,000	2.4	1.8	8.9	4.0	18.8	478	5/8"	4" x 1"	4"
500B Series - Spade Handle										
560BX-16	6,000	1.9	1.4	11.6	5.3	18.8	478	5/8"	6" x 1"	6"
590BHX-14	9,000	2.2	1.6	9.8	4.4	18.8	478	5/8"	4" x 1"	4"
5120BHX-14	12,000	2.4	1.8	9.8	4.4	18.8	478	5/8"	4" x 1"	4"

GENERAL:

Air Inlet: 1/2" NPT
Minimum Hose Size: 1/2"
Tool performance rated @ 90psi (620 kPa) air pressure.

Refer to page 5 for description of Rapid Select.

STANDARD EQUIPMENT:

Operating instructions & service manual
Wheel Guard & Flange Wrench

OPTIONAL EQUIPMENT:

Wheel Guards: Page 43
Additional Accessories: Pages 43-46

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Type 1 Wheel Grinders

Cleco®

1700 & 1900 Horizontal Series

Nominal Motor Power

3.3 & 4.3 hp

2.5 & 3.2 kW

- Governed
- Overspeed Shutoff
- Lock-off, Self Closing Thumb, Quick Release Thumb & Spade Handle



Model Number	Free Speed	Max. Power		Weight w/Guard		Length		Arbor Size	Type 1 Wheel Capacity	Wheel Guard Size
	rpm	hp	kw	lbs.	kg	in.	mm			
1700 Series - Lock-off Lever Throttle										
1745HL-18	4,500	2.7	2.0	15.4	7.0	19.6	498	5/8"	8" x 1"	8"
1760HL-16	6,000	3.1	2.3	14.5	6.6	19.6	498	5/8"	6" x 1"	6"
1700 Series - Self Closing Thumb Throttle										
1745HS-18	4,500	2.7	2.0	15.4	7.0	19.6	498	5/8"	8" x 1"	8"
1760HS-16	6,000	3.1	2.3	14.5	6.6	19.6	498	5/8"	6" x 1"	6"
1700 Series - Quick Release Thumb Throttle										
1745H-18	4,500	2.7	2.0	15.4	7.0	19.6	498	5/8"	8" x 1"	8"
1760H-16	6,000	3.1	2.3	14.5	6.6	19.6	498	5/8"	6" x 1"	6"
1700 Series - Spade Handle										
1745HG-18	4,500	2.7	2.0	16.4	7.4	20.1	511	5/8"	8" x 1"	8"
1760HG-16	6,000	3.1	2.3	15.5	7.0	20.1	511	5/8"	6" x 1"	6"
1900 Series - Lock-off Lever Throttle										
1945HL-18	4,500	3.7	2.8	16.6	7.5	20.9	531	5/8"	8" x 1"	8"
1960HL-16	6,000	4.1	3.1	15.8	7.2	20.9	531	5/8"	6" x 1"	6"
1900 Series - Self Closing Thumb Throttle										
1945HS-18	4,500	3.7	2.8	16.6	7.5	20.9	531	5/8"	8" x 1"	8"
1960HS-16	6,000	4.1	3.1	15.8	7.2	20.9	531	5/8"	6" x 1"	6"
1900 Series - Quick Release Thumb Throttle										
1945H-18	4,500	3.7	2.8	16.6	7.5	20.9	531	5/8"	8" x 1"	8"
1960H-16	6,000	4.1	3.1	15.8	7.2	20.9	531	5/8"	6" x 1"	6"
1900 Series - Spade Handle										
1945HG-18	4,500	3.7	2.8	17.6	8.0	21.4	544	5/8"	8" x 1"	8"
1960HG-16	6,000	4.1	3.1	16.8	7.6	21.4	544	5/8"	6" x 1"	6"
1980HG-18	8,000	4.1	3.1	16.8	7.6	21.4	544	5/8"	6" x 1"	6"

GENERAL:

Air Inlet: 1/2" NPT

Minimum Hose Size: 3/4"

Tool performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual

Wheel Guard & Flange Wrench

OPTIONAL EQUIPMENT:

Wheel Guards: Page 43

Additional Accessories: Pages 43-46

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.



Cleco®

136 Vertical Series

Nominal Motor Power
0.9 hp
0.67 kW

- Gearless
- Lock-Off Lever Throttle

Model Number	Free Speed	Max. Power		Weight w/Guard		Length		Height		Type 27 Wheel Capacity	Wheel Guard Size
3/8"-24 Spindle	rpm	hp	kw	lbs.	kg	in.	mm	in.	mm		
136 Series											
136VGL-180-D3T3	18,000	0.6	0.4	2.4	1.1	7.3	185	4.0	102	3"	3"
 136VGL-135-D3T4	13,500	0.4	0.3	2.4	1.1	7.3	185	4.0	102	4"	4"
GENERAL: Air Inlet: 1/2" NPT Minimum Hose Size: 3/4" Spindle Length: 7/8" Tool performance rated @ 90psi (620 kPa) air pressure.						STANDARD EQUIPMENT: Operating instructions & service manual Wheel Guard & Flange Wrench					
 Refer to page 5 for description of Rapid Select.						OPTIONAL EQUIPMENT: Wheel Guards: Page 43 Additional Accessories: Pages 43-46					

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Type 27 Wheel Grinders

BUCKEYE®

31A & 42H Series

Nominal Motor Power

0.6 & 0.9 hp

0.45 & 0.67 kW

- Aluminum or Steel Housing
- Front or Rear Exhaust
- Steel Angle Heads



Model Number		Housing	Type 27 Wheel Capacity	Free Space	Weight		Length		Arbor Size
Front Exhaust	Rear Exhaust			rpm	lbs.	kgs	in.	mm	
31A Series – 0.6 hp (0.45 kW)									
31A-630	31AR-630	Steel	4"	13,500	3.0	1.3	10.8	274	3/8"
31A-530	 31AR-530	Aluminum	4"	13,500	2.3	1.0	10.8	274	3/8"
42H Series – 0.9 hp (0.67 kW)									
42HS-583	42HSR-583	Steel	3"	14,500	3.8	1.7	10.8	274	3/8"
42H-583	42HR-583	Aluminum	3"	14,500	3.1	1.4	10.8	274	3/8"
42HS-582	42HSR-582	Steel	3"	13,500	3.8	1.7	10.8	274	3/8"
42H-582	42HR-582	Aluminum	3"	13,500	3.1	1.4	10.8	274	3/8"
42HS-581	42HSR-581	Steel	3"	12,000	3.8	1.7	10.8	274	3/8"
42H-581	42HR-581	Aluminum	3"	12,000	3.1	1.4	10.8	274	3/8"
42HS-533	42HSR-533	Steel	4"	14,500	3.8	1.7	10.8	274	3/8"
42H-533	42HR-533	Aluminum	4"	14,500	3.1	1.4	10.8	274	3/8"
42HS-532	42HSR-532	Steel	4"	13,500	3.8	1.7	10.8	274	3/8"
42H-532	42HR-532	Aluminum	4"	13,500	3.1	1.4	10.8	274	3/8"
42HS-531	42HSR-531	Steel	4"	12,000	3.8	1.7	10.8	274	3/8"
42H-531	42HR-531	Aluminum	4"	12,000	3.1	1.4	10.8	274	3/8"

GENERAL:

Air Inlet: 1/4" NPT – Use 5/16" (7.9mm) I.D. Hose
All tools performance rated @ 90psi (620 kPa) air pressure.

 Refer to page 5 for description of Rapid Select.

STANDARD EQUIPMENT:

Wheel guard, proper flanges, spindle wrench

EXTRA EQUIPMENT:

Overhose (rear exhaust): See page 45

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Type 27 Wheel Grinders

Cleco®

116 & 136 Right Angle Series

Nominal Motor Power
0.7 & 0.9 hp
0.52 & 0.67 kW

- Steel Housing
- Governed
- Front, Rear & Side Exhaust
- Lock-Off Lever Throttle



Model Number	Free Speed	Max. Power		Exhaust	Weight w/Guard		Length		Head Height		Type 27 Wheel Capacity	Wheel Guard Size
3/8"-24 Spindle	rpm	hp	kw		lbs.	kg	in.	mm	in.	mm		
116 Series - Heavy Duty Head												
 116GLF-115A-D3T4	11,500	0.6	0.4	Front	3.6	1.6	7.1	180	3.2	81	4"	4"
 116GLF-115A-D3T45	11,500	0.6	0.4	Front	3.6	1.6	7.1	180	3.2	81	4 1/2"	4 1/2"
 116GLS-115A-D3T4	11,500	0.6	0.4	Side	3.6	1.6	7.1	180	3.2	81	4"	4"
136 Series - Heavy Duty Head												
 136GLF-115A-D3T4	11,500	0.8	0.6	Front	3.9	1.8	7.6	193	3.2	81	4"	4"
 136GLR-115A-D3T45	11,500	0.8	0.6	Rear	3.8	1.7	8.3	211	3.2	81	4 1/2"	4 1/2"
 136GLR-115A-D3T4	11,500	0.8	0.6	Rear	3.8	1.7	8.3	211	3.2	81	4"	4"
 136GLS-115A-D3T4	11,500	0.8	0.6	Side	3.9	1.8	7.6	193	3.2	81	4"	4"
116 Series - Extended Head												
116GLFB-135A-D3T4	13,500	0.5	0.4	Front	3.0	1.4	9.1	231	3.2	81	4"	4"
116GLSB-135A-D3T3	13,500	0.5	0.4	Side	3.0	1.4	9.1	231	3.2	81	3"	3"
 116GLSB-135A-D3T4	13,500	0.5	0.4	Side	3.0	1.4	9.1	231	3.2	81	4"	4"
116GLFB-165A-D3T3	16,500	0.6	0.4	Front	2.9	1.3	9.1	231	3.2	81	3"	3"
116GLSB-165A-D3T3	16,500	0.6	0.4	Side	2.9	1.3	9.1	231	3.2	81	3"	3"
136 Series - Extended Head												
136GLFB-135A-D3T4	13,500	0.7	0.5	Front	3.3	1.5	9.6	244	3.2	81	4"	4"
136GLSB-135A-D3T4	13,500	0.7	0.5	Side	3.3	1.5	9.6	244	3.2	81	4"	4"
136GLRB-135A-D3T4	13,500	0.7	0.5	Rear	3.1	1.4	10.3	262	3.2	81	4"	4"
136GLFB-165A-D3T3	16,500	0.8	0.6	Front	3.1	1.4	9.6	244	3.2	81	3"	3"
136 Series - Extended Backhead												
136GELR-115A-D3T4	11,500	0.8	0.6	Rear	4.8	2.2	10.3	262	3.2	81	4"	4"
136GELRB-135A-D3T4	13,500	0.8	0.6	Rear	4.1	1.9	12.3	312	1.8	46	4"	4"

GENERAL:

Air Inlet: 1/4" NPT
Minimum Hose Size: 1/4" (116 series), 5/16" (136 series)
Tool performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual
Wheel Guard, Wheel Adapter, Spindle Wrench

OPTIONAL EQUIPMENT:

For 4 1/2" Type 27 Wheels with 7/8" hole
Wheel Guards: Page 43
Additional Accessories: Pages 43-46

Refer to page 5 for description of Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Type 27 & 28 Wheel Grinders

Cleco®

15 Right Angle & Vertical Series

Nominal Motor Power

1.3 hp

0.97 kW

- Steel Housing (Right Angle)
- Governed (Right Angle)
- Geared Speed (Vertical)
- Side Exhaust



Model Number	Free Speed	Max. Power		Weight w/Guard		Length		Height		Type 27 & 28 Wheel Capacity	Wheel Guard Size
5/8"-11 Spindle	rpm	hp	kw	lbs.	kg	in.	mm	in.	mm		
115 Right Angle Series - Lock-off Lever Throttle											
 15GL-60A-D5T7	6,000	1.1	0.8	7.1	3.2	10.0	254	4.0	102	7"	7"
15GL-77A-D5T7	7,700	1.2	0.9	7.1	3.2	10.0	254	4.0	102	7"	7"
15GL-85A-D5T7	8,000	1.2	0.9	7.1	3.2	10.0	254	4.0	102	7"	7"
15 Vertical Series - Self Closing Thumb Throttle											
15VS-30	3,000	1.0	0.7	5.4	2.4	-	-	6.6	168	7"	7"
15VS-45	4,500	1.0	0.7	5.4	2.4	-	-	6.6	168	7"	7"
 15VSB-60	6,000	1.0	0.7	5.4	2.4	-	-	6.6	168	7"	7"

GENERAL:

Air Inlet: 3/8" NPT

Minimum Hose Size: 3/8"

Tool performance rated @ 90psi (620 kPa) air pressure.

 Refer to page 5 for description of Rapid Select.

STANDARD EQUIPMENT:

Operating instructions & service manual

Wheel Guard & Flange Wrench

OPTIONAL EQUIPMENT:

Wheel Guards: Page 43

Additional Accessories: Pages 43-46

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Type 1 Cut-Off Wheel Grinders



BUCKEYE®

31A & 42H Series

Nominal Motor Power
0.6 & 0.9 hp
0.45 & 0.67 kW

■ Aluminum or Steel Housing

■ Front or Rear Exhaust

Model Number		Housing	Type 1 Cut-Off Wheel Capacity	Free Speed	Weight		Length		Arbor Size
Front Exhaust	Rear Exhaust			rpm	lbs.	kgs	in.	mm	
31A Series – 0.6 hp (0.45 kW)									
31A-640	31AR-640	Steel	4"	13,500	3.2	1.4	10.8	274	3/8"
31A-540	31AR-540	Aluminum	4"	13,500	2.5	1.1	10.8	274	3/8"
42H Series – 0.9 hp (0.67 kW)									
42HS-573	42HSR-573	Steel	3"	14,500	3.2	1.4	10.8	274	3/8"
42H-573	42HR-573	Aluminum	3"	14,500	2.5	1.1	10.8	274	3/8"
42HS-572	42HSR-572	Steel	3"	13,500	3.2	1.4	10.8	274	3/8"
42H-572	42HR-572	Aluminum	3"	13,500	2.5	1.1	10.8	274	3/8"
42HS-571	42HSR-571	Steel	3"	12,000	3.2	1.4	10.8	274	3/8"
42H-571	42HR-571	Aluminum	3"	12,000	2.5	1.1	10.8	274	3/8"
42HS-543	42HSR-543	Steel	4"	14,500	3.2	1.4	10.8	274	3/8"
42H-543	42HR-543	Aluminum	4"	14,500	2.5	1.1	10.8	274	3/8"
42HS-542	42HSR-542	Steel	4"	13,500	3.2	1.4	10.8	274	3/8"
42H-542	42HR-542	Aluminum	4"	13,500	2.5	1.1	10.8	274	3/8"
42HS-541	42HSR-541	Steel	4"	12,000	3.2	1.4	10.8	274	3/8"
42H-541	42HR-541	Aluminum	4"	12,000	2.5	1.1	10.8	274	3/8"

GENERAL:

Air Inlet: 1/4" NPT – Use 5/16" (7.9mm) I.D. Hose
 All tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Wheel guard, proper flanges, spindle wrench

EXTRA EQUIPMENT:

Overhose (rear exhaust): See page 45

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Type 27 & 28 Wheel Grinders

Cleco®

1200 Vertical Series

Nominal Motor Power

2.3 hp

1.7 kW

- Governed
- Lock-Off Lever Throttle



Model Number	Free Speed	Max. Power		Weight w/Guard		Height		Type 27 & 28 Wheel Capacity	Wheel Guard Size
5/8"-11 Spindle	rpm	hp	kw	lbs.	kg	in.	mm		
1200 Series									
1260DVL-07	6,000	2.0	1.5	7.5	3.4	7.5	191	7"	7"
1277DVL-07	7,700	2.2	1.6	7.5	3.4	7.5	191	7"	7"

GENERAL: Air Inlet: 1/2" NPT Minimum Hose Size: 1/2" Tool performance rated @ 90psi (620 kPa) air pressure.	STANDARD EQUIPMENT: Operating instructions & service manual Wheel Guard & Spindle Wrench OPTIONAL EQUIPMENT: Wheel Guards: Page 43 Additional Accessories: Pages 43-46
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WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Type 27 & 28 Wheel Grinders

Cleco®

1700 & 1900 Vertical Series

Nominal Motor Power
3.3 & 4.3 hp
2.5 & 3.2 kW

- Durable Sand-Cast Governor Housing
- Thru-bolt Construction
- Safety Lever or Self Closing Thumb Throttle
- Governed
- Overspeed Shut-Off



Model Number	Free Speed	Max. Power		Weight w/Guard		Height		Type 27 & 28 Wheel Capacity	Wheel Guard Size
		hp	kW	lbs.	kg	in.	mm		
5/8"-11 Spindle	rpm								
1700 Series - Lock-off Lever Throttle									
1745BVL-09	4,500	2.6	1.9	10.5	4.8	7.0	178	9"	9"
1760BVL-07	6,000	3.0	2.2	9.1	4.1	7.0	178	7"	7"
1760BVL-09	6,000	3.0	2.2	9.1	4.1	7.0	178	9"	9"
1760BVL-11	6,000	3.0	2.2	9.1	4.1	7.0	178	9"	9"
1777BVL-07	7,700	3.2	2.4	9.1	4.1	7.0	178	7"	7"
1700 Series - Self Closing Thumb Throttle									
1745BVL-09	4,500	2.6	1.9	10.5	4.8	7.0	178	9"	9"
1760BVL-07	6,000	3.0	2.2	9.1	4.1	7.0	178	7"	7"
1777BVS-07	7,700	3.2	2.4	9.1	4.1	7.0	178	7"	7"
1900 Series - Lock-off Lever Throttle									
1945BVL-09	4,500	3.7	2.8	12.8	5.8	8.3	211	9"	9"
1960BVL-07	6,000	4.1	3.1	12.8	5.8	8.3	211	7"	7"
1960BVL-09	6,000	4.1	3.1	12.8	5.8	8.3	211	9"	9"
1900 Series - Self Closing Thumb Throttle									
1945BVS-09	4,500	3.7	2.8	12.8	5.8	8.3	211	9"	9"
1960BVS-09	6,000	4.1	3.1	12.8	5.8	8.3	211	9"	9"

GENERAL:

Air Inlet: 1/2" NPT
Minimum Hose Size: 3/4"
Tool performance rated @ 90psi (620 kPa) air pressure.

Refer to page 5 for description of Rapid Select.

STANDARD EQUIPMENT:

Operating instructions & service manual
Wheel Guard & Spindle Wrench

OPTIONAL EQUIPMENT:

Wheel Guards: Page 43
Additional Accessories: Pages 43-46

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Type 6 & 11 Wheel Grinders

Cleco®

1200 Vertical Series

Nominal Motor Power

2.3 hp

1.7 kW

- Durable sand-cast governor housing
- Thru-bolt construction
- Lock-off Lever Throttle
- Governed
- Overspeed Shutoff



Model Number	Free Speed	Max. Power		Weight w/Guard		Height		Type 6 & 11 Wheel Capacity	Wheel Guard Size
		hp	kw	lbs.	kg	in.	mm		
5/8"-11 Spindle	rpm								
1200 Series									
1260DVL-04	6,000	2.0	1.5	7.4	3.4	7.5	191	4" x 2"	4"
1277DVL-04	7,700	2.2	1.6	7.4	3.4	7.5	191	4" x 2"	4"

GENERAL: Air Inlet: 1/2" NPT Minimum Hose Size: 3/4" Tool performance rated @ 90psi (620 kPa) air pressure.	STANDARD EQUIPMENT: Operating instructions & service manual Wheel Guard, Spindle Wrench, Wheel Retainer Washer & Bolt OPTIONAL EQUIPMENT: Wheel Guards: Page 43 Additional Accessories: Pages 43-46
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WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Type 6 & 11 Wheel Grinders

Cleco®

1700 & 1900 Vertical Series

Nominal Motor Power
3.3 & 4.3 hp
2.5 & 3.2 kW

- **Governed Speed**
- **Durable Sand-Cast Governor Housing**
- **Thru-bolt Construction**
- **Overspeed Shut-Off**



Model Number	Free Speed	Max. Power		Weight w/Guard		Height		Type 6 & 11 Wheel Capacity	Wheel Guard Size
5/8"-11 Spindle	rpm	hp	kw	lbs.	kg	in.	mm		
1700 Series - Lock-off Lever Throttle									
1745BVL-06	4,500	2.6	1.9	11.1	5.0	7.0	178	6" x 2"	6"
1760BVL-05	6,000	3.0	2.2	11.1	5.0	7.0	178	5" x 2"	5"
1760BVL-06	6,000	3.0	2.2	11.1	5.0	7.0	178	6" x 2"	6"
1772BVL-05	7,200	3.2	2.4	10.4	4.7	7.0	178	5" x 2"	5"
1700 Series - Self Closing Thumb Throttle									
1745BVS-06	4,500	2.6	1.9	11.1	5.0	7.0	178	6" x 2"	6"
1760BVS-06	6,000	3.0	2.2	11.1	5.0	7.0	178	6" x 2"	6"
1700 Series - Quick Release Thumb Throttle									
1745BV-06	4,500	2.6	1.9	11.1	5.0	7.0	178	6" x 2"	6"
1760BV-06	6,000	3.0	2.2	11.1	5.0	7.0	178	6" x 2"	6"
1900 Series - Lock-off Lever Throttle									
1945BVL-06	4,500	3.7	2.8	13.4	6.1	8.3	211	6" x 2"	6"
 1960BVL-06	6,000	4.1	3.1	13.4	6.1	8.3	211	6" x 2"	6"
1900 Series - Self Closing Thumb Throttle									
1945BVS-06	4,500	3.7	2.8	13.4	6.1	8.3	211	6" x2"	6"
1960BVS-06	6,000	4.1	3.1	13.4	6.1	8.3	211	6" x 2"	6"
1900 Series - Quick Release Thumb Throttle									
1945BV-06	4,500	3.7	2.8	13.4	6.1	8.3	211	6" x 2"	6"

GENERAL:

Air Inlet: 1/2" NPT
Minimum Hose Size: 3/4"
Tool performance rated @ 90psi (620 kPa) air pressure.

 Refer to page 5 for description of Rapid Select.

STANDARD EQUIPMENT:

Operating instructions and service manual
Wheel Guard, Spindle Wrench, Wheel Retainer Washer & Bolt

OPTIONAL EQUIPMENT:

Wheel Guards: Page 43
Additional Accessories: Pages 43-46

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Flap & Buff Wheel Machines

Cleco®

15 Series

Nominal Motor Power
1.3 hp
0.97 kW

- Steel Housing
- Geared Speed
- Lock-Off Lever Throttle
- Extended Length



Model Number	Free Speed	Max. Power		Weight		Length	
5/8"-11 Spindle	rpm	hp	kw	lbs.	kg	in.	mm

15 Series - 3" Extended

 15NWELC-30-F5T	3,000	1.0	0.7	5.6	2.5	17.3	439
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GENERAL: Air Inlet: 1/4" NPT Minimum Hose Size: 5/16" Tool performance rated @ 90psi (620 kPa) air pressure.  Refer to page 5 for description of Rapid Select.	STANDARD EQUIPMENT: Operating instructions & service manual OPTIONAL EQUIPMENT: Additional Accessories: Pages 43-46
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WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Precision Carbide Burs for Die Grinders

Size	Code No. 1/4" Shank	Max. Speed
------	------------------------	------------

Cylindrical Radius End



3/16" x 5/8"	889033	133,000
1/4" x 5/8"	889127	100,000
1/16" x 3/4"	889035	80,000
3/8" x 3/4"	889036	66,000
1/2" x 1"	889038	50,000
5/8" x 1"	889039	40,000
3/4" x 1"	889040	33,000

Cylindrical Plain



3/16" x 5/8"	889003	133,000
5/16" x 3/4"	889005	80,000
3/8" x 3/4"	889006	66,000
1/2" x 1"	889008	50,000
5/8" x 1"	889009	40,000
3/4" x 3/4"	889011	33,000
1" x 1"	889014	25,000

Oval



1/4" x 3/8"	889056	100,000
3/8" x 5/8"	889057	66,000
1/2" x 7/8"	889058	50,000
5/8" x 1"	889059	40,000
3/4" x 1"	889060	33,000

Cone Round End 14°



1/4" x 5/8"	889135	100,000
5/16" x 7/8"	889101	66,000
3/8" x 1 1/16"	889102	50,000
1/2" x 1 1/8"	889103	40,000
3/4" x 1 1/2"	889106	33,000

Cone or Taper



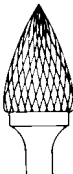
1/4" x 3/4"	889108	100,000
3/8" x 5/8"	889132	66,000
1/2" x 7/8"	889133	50,000

Ball



3/16"	889045	133,000
1/4"	889046	100,000
5/16"	889047	80,000
3/8"	889048	66,000
1/2"	889050	50,000
3/8"	889051	40,000

Tree Pointed



1/4" x 3/4"	889128	100,000
3/8" x 3/4"	889080	66,000
1/2" x 1"	889082	50,000
5/8" x 1"	889083	40,000
3/4" x 1"	889084	33,000

Tree Radius End



1/4" x 3/4"	889128	100,000
3/8" x 3/4"	889064	66,000
1/2" x 1"	889067	50,000
5/8" x 1"	889068	40,000
3/4" x 1"	889069	33,000
3/4" x 1 1/2"	889071	33,000

Cleco Wheel Guards

Tool Series	Size	Part No.	Speed (rpm)
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Type 1 Wheel

116RA, 136RA	3"	202226	13,500 & 16,500
116RA, 136RA	4"	889208	11,500
116RA, 136RA	4"	202227	13,500 & 16,500
136, 15	2 1/2"	202277	
136, 15	3"	202278	
136, 15	4"	202245	
15RA	7"	204131	
15H	2 1/2"	865787	
15H	3"	865786	
15H	4"	865988	
500BH	4"	881608	9,000 & 12,000
500BH	6"	865993	6,000
1700V, 1900V	6"	202022	
1700V, 1900V	8"	202025	

Type 27 Wheel

15RA	7"	865986	
136V	3"	849905	
136V	4"	203382	
116RA, 136RA	4"	889208	11,500
116RA, 136RA	4 1/2"	202063	11,500
116RA, 136RA	3"	202226	13,500 & 16,500
116RA, 136RA	4"	202227	13,500 & 16,500
116RA, 136RA	5"	203142	11,500
15V	7"	849760	
1200V	7"	202374	
1200V	9"	202608	
1700V, 1900V	9"	867741	
1700V, 1900V	7"	867740	

Type 28 Wheel

15V	7"	849760	
1200V	7"	202374	
1700V, 1900V	7"	867740	
15RA	7"	865986	
1200V	9"	202607	
1700V, 1900V	9"	869067	

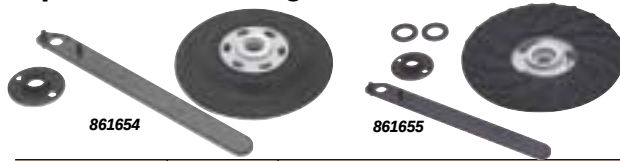
Type 6 & 11 (Cup) Wheel

1200V	4"	202465	
1700V, 1900V	5"	861892	
1700V, 1900V	6"	861893	

Grinder Accessories

Cleco

Spiral Cool Sanding Kits



Part No.	Size	Used On
861791	4"	116RA, 136RA
861792	5"	116RA, 136RA
861654	5"	15RA
861655	7"	15RA, 15V, 1200V, 1700V, 1900V
861656*	9"	1700V, 1900V

* For use on 4,500 and 6,000 rpm models only



Governor Adjustment Wrenches

Part No.	Used On
867796	1700H, 1900H
867739	1700V, 1900V

External Mufflers

Part No.	Used On
861996	1700V
861997	1900V



4 1/2" Wheel Guard Kit

Part No.	Used On
861983	116RA, 136RA



Type 27 & 28 Wheel Adapter Kit*

Part No.	Used On
849269	15V, 1200V, 1700V, 1900V

* For 7/8" plain wheel wheels



Router Attachment

Part No.	Used On
861804	116, 136

Cone or Plug Wheel Driving Flange

Part No.	Used On
869699	1700H, 1900H



Sanding Shrouds



Part No.	Used On
202592	1200V
203988	1700V



Grip Sleeve

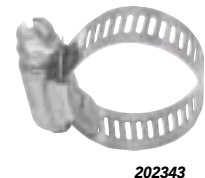
Part No.	Used On
203647	220G



Overhose for 136* Grinders

Part No.	Description
869580	Exhaust Overhose
869204	Overhose Adapter
202343	Hose Clamp

* Rear exhaust models only



Rubber Flex Accessories

Part No.	Size	Used On
----------	------	---------

Rubber Flex Collets

847532	1/8"	116, 136
847533	1/4"	116, 136

Rubber Flex Chuck

847512	116, 136
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Collets

Tool Series	Size	Part No.
220G	1/8"	415432
220G	3/32"	415433
220G	3mm	415434
116, 136	1/8"	865421
116, 136	6mm	864158
116, 136, 15	3/16"	865423
116, 136, 15	1/4"	847811
116, 136, 15	5/16"	865501
116, 136, 15	3/8"	847805

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Buckeye Wheel Guards

Tool Series	Series	Guard Number
-------------	--------	--------------

Type 1 (Cut-Off) Wheel

31A	4"	1024872
42H	3"	14-2676
42H	4"	14-2677

Type 1 Wheel

31G	1.75" x 3/8"	1022766
41G-501	2" x 1/2"	1022195
41G-521	2" x 1/2"	1022587
41G-502	2 1/2" x 1/2"	1021315
41G-522	2 1/2" x 1/2"	1021021
41G-503	3" x 1/2"	1021316
41G-523	3" x 1/2"	1021200
41G-504	4" x 1/2"	1021317
41G-524	4" x 1/2"	1021078
42G	2 1/2" x 3/4"	14-2559
61G-522	2 1/2" x 3/4"	1021315
61G-532	3" x 3/4"	1021376
61G-523	3" x 3/4"	1021316
61G-533	4" x 3/4"	1021377
61G-524	4" x 3/4"	1021317
61G-534	4" x 3/4"	1021378
61G-535	5" x 3/4"	1021874
61G-536	6" x 3/4"	1021330
74G-146	6" x 1"	1022726
74G-147	8" x 1"	1024276
81G-146	6" x 1"	1022726
81G-147	8" x 1"	1024276

Type 27 Depressed Center Wheel

31A	3"	1023487
31A	4"	1022312
31A	4" Thin	1024745
31A	4 1/2"	1024788
42H	3"	14-2674
42H	4"	14-2675

Exhaust Hose Clamp

Part No.	Description
----------	-------------

1018422 Overhose (5')

1018429 Clamp

Use with any Buckeye 31 series straight housing tool

Secures over the exhaust bushing at the rear of the tool to carry exhaust debris away from the work area.

Depressed Center Wheel Adapter

Adapt abrasive with a 7/8" arbor to run on a tool with 5/8"-11 thread

Part No.	Description
----------	-------------

1021767 Use with type 27 & 28 wheels

Overhose Assemblies

For use with Buckeye 42H & 42G series tools

Tool Series	Complete Overhose Assembly	Overhose Only			Airhose Only		
		Number	Length		Number	Length	
			ft.	m		ft.	m
	45-2786	45-2629	2.0	0.6			
42H & 42G	45-2787	45-2687	4.0	1.2	45-1508	8.0	2.4
	45-2788	45-2688	8.0	2.4			

Belt Sander Attachments

For use with Buckeye 41G & 61G series sander

Attachment Part Number		Sanding Belt Size		Sanding Area	
Contact Wheel Mounting					
Tool Spindle	Idler Spindle	in.	mm	in.	mm
Coated Abrasive Attachments**					
1024376	1024377	1 X 12	25 X 305	1 X 4	25 X 102

(**) Coated abrasive attachments are used with 15,000 rpm 41G and 61 G series.

Sanding Belts – Aluminum Oxide, Resin Bond

For use with Buckeye coated abrasive belt sander attachments

Minimum order: 10 of any one belt

Grit Size	Belt Number
	1" x 12
60	14-1582
80	14-1583
120	14-1585
180	14-1588

Grinder Accessories

Buckeye

Part Number	Collet Size	Tool Termination	Capacity		Tool Series*			
			Min.	Max.	10-04	10-90	12-03	12-04
Series HG Collets								
103	1/16"	-04 or -14	–	1/16"	OPT	OPT		
102	3/32"	-06 or -16	–	3/32"	STD	OPT		STD
01-0102	3/32"	-16	–	3/32"			STD	
100	1/8"	-08 or -18	–	1/8"	STD	STD		STD
01-0100	1/8"	-18	–	1/8"			STD	
146	1mm	-00 or -10	–	1mm	OPT	OPT		
131	2.35mm	-02 or -12	–	2.35mm	OPT	OPT		
01-0131	2.35mm	-12	–	2.35mm			OPT	
148	3mm	-03 or -13	–	3mm	STD	STD		STD
01-0148	3mm	-13	–	3mm			STD	

Part Number	Collet Size	Tool Termination	Capacity		Tool Series*					
			Min.	Max.	10-95	12-10 12-11 12-12	12-20 12-25	12-21 12-22 12-26 12-31	10-43 11-43	12-05 12-22 12-27 12-27

Universal Collets

	7809	1/8"	-4508	–	1/8"					OPT
	7812	3/16"	-4512	–	3/16"					OPT
	7808	1/4"	-45	–	1/4"					STD
	7810	3mm	-45M3	–	3mm					OPT
	7811	6mm	-45M6	–	6mm					OPT

"K" Series Collets

	120	1/8"	-6208	3/32"	1/8"					OPT
	121	3/16"	-6212	5/32"	3/16"					OPT
	122	1/4"	-6216	7/32"	1/4"					OPT
	123	5/16"	-6220	9/32"	5/16"					OPT
	124	3/8"	-62	11/32"	3/8"					STD
	125	7/16"	-6228	13/32"	7/16"					OPT
	126	1/2"	-6232	15/32"	1/2"					OPT
	133	6mm	-62M6	–	6mm					OPT
	134	8mm	-62M8	–	8mm					OPT
	135	10mm	-6270	–	10mm					OPT
	136	12mm	-6271	–	12mm					OPT

Series 200 Collets

	204	1/8"	-0108	3/32"	1/8"		OPT	OPT		
	205	5/32"	-0110	1/8"	5/32"		OPT	OPT		
	206	3/16"	-0112	5/32"	3/16"		OPT	OPT		
	207	7/32"	-0114	3/16"	7/32"		OPT	OPT		
	208	1/4"	-01	7/32"	1/4"		STD	STD		
	209	9/32"	-0118	1/4"	9/32"		OPT	OPT		
	210	5/16"	-0120	9/32"	5/16"		OPT	OPT		
	211	11/32"	-0122	5/16"	11/32"		OPT	OPT		
	212	3/8"	-0124	11/32"	3/8"		OPT	OPT		
	213	6mm	-01M6	5.2mm	6mm		OPT	OPT		
	216	8mm	-01M8	7.2mm	8mm		OPT	OPT		

Series 300 Collets

	301	3/64"	-3603	1/64"	3/64"		OPT	OPT		OPT
	302	5/64"	-3605	3/64"	5/64"		OPT	OPT		OPT
	303	3/32"	-3606	1/16"	3/32"		OPT	OPT		OPT
	304	1/8"	-3608	3/32"	1/8"	STD	OPT	OPT		OPT
	305	5/32"	-3610	1/8"	5/32"		OPT	OPT		OPT
	306	3/16"	-3612	5/32"	3/16"		OPT	OPT		OPT
	307	7/32"	-3614	3/16"	7/32"		OPT	OPT		OPT
	308	1/4"	-36	7/32"	1/4"	OPT	STD	STD		STD
	311	3mm	-36M3	2.2mm	3mm		OPT	OPT		OPT
	310	6mm	-36M6	5.2mm	6mm		OPT	OPT		OPT

* Std = Standard Collet
OPT = Optional Collet

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.



Buckeye® sanders are available in three styles to provide flexibility in choosing the best tool to complete the job - right angle, vertical, and belt type sanders.

Motor ratings for Buckeye sanders range from 0.6 – 1.6HP. All sanders feature aluminum or steel housings to protect the internal parts as much as possible.

Buckeye sanders are ideal for jobs ranging from burnishing metal to smoothing welds.



WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

BUCKEYE®

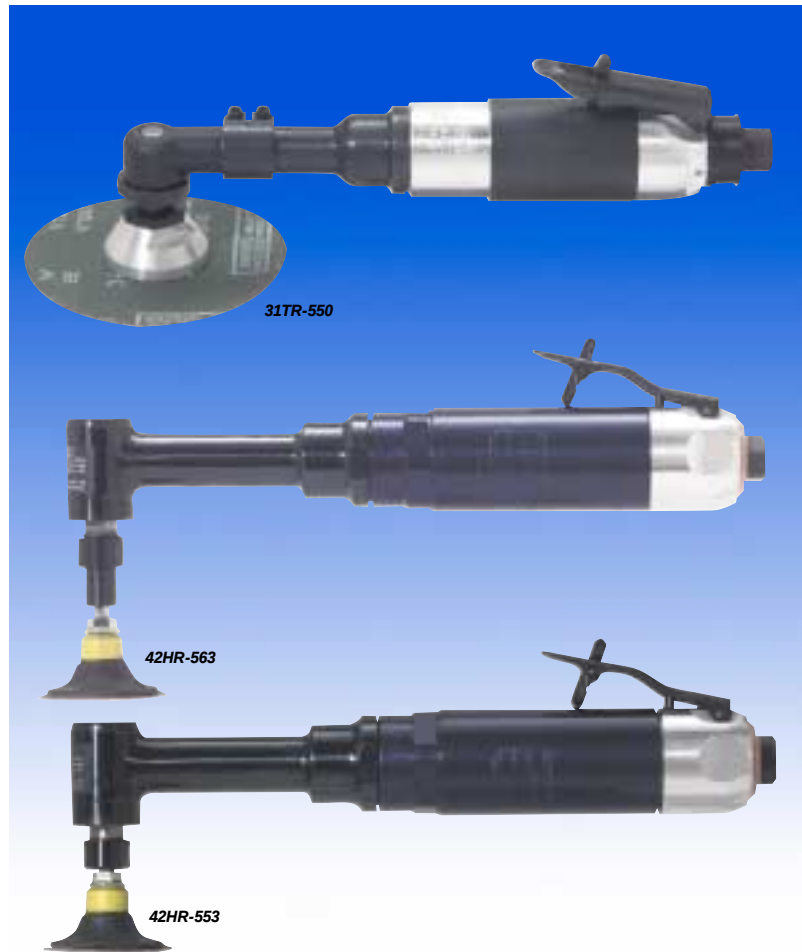
31T & 42H Series

Nominal Motor Power

0.6 & 0.9 hp

0.45 & 0.67 kW

- One Piece Steel Angle Head
- Aluminum or Steel Housing
- Front or Rear Exhaust



Model Number		Housing	Sanding Disc Capacity	Free Speed	Weight		Length		Collet Size
Front Exhaust	Rear Exhaust			rpm	lbs.	kgs	in.	mm	
31T Series – 0.6 hp (0.45 kW) – 3/8" - 24 Thread									
	31TR-550	Aluminum	4"	13,500	2.3	1.0	10.8	274	—
42H Series – 0.9 hp (0.67 kW) – 300 Series Collet									
42HS-563	42HSR-563	Steel	4"	14,500	3.2	1.4	10.8	274	1/4"
42H-563	42HR-563	Aluminum	4"	14,500	2.5	1.1	10.8	274	1/4"
42HS-562	42HSR-562	Steel	4"	13,500	3.2	1.4	10.8	274	1/4"
42H-562	42HR-562	Aluminum	4"	13,500	2.5	1.1	10.8	274	1/4"
42HS-561	42HSR-561	Steel	4"	12,000	3.2	1.4	10.8	274	1/4"
42H-561	42HR-561	Aluminum	4"	12,000	2.5	1.1	10.8	274	1/4"
42H Series – 0.9 hp (0.67 kW) – Universal Collet									
42HS-553	42HSR-553	Steel	4"	14,500	3.2	1.4	10.8	274	1/4"
42H-553	42HR-553	Aluminum	4"	14,500	2.5	1.1	10.8	274	1/4"
42HS-552	42HSR-552	Steel	4"	13,500	3.2	1.4	10.8	274	1/4"
42H-552	42HR-552	Aluminum	4"	13,500	2.5	1.1	10.8	274	1/4"
42HS-551	42HSR-551	Steel	4"	12,000	3.2	1.4	10.8	274	1/4"
42H-551	42HR-551	Aluminum	4"	12,000	2.5	1.1	10.8	274	1/4"

GENERAL:

Air Inlet: 1/4" NPT – Use 5/16" (7.9mm) I.D. Hose
All Tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

31T Series: Spindle adapter, clamp washer, backing adapter and spindle wrench
42H Series: Spindle nut, flanges, spindle wrenches

EXTRA EQUIPMENT:

Overhose (rear exhaust): See page 45

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.



BUCKEYE®

58SR Series

Nominal Motor Power
1.1 & 1.6 hp
0.82 & 1.19 kW

- **Non-Governed**
- **Rear Exhaust**
- **Lock-Off Lever Throttle**

Model Number	Sanding Disc Capacity (max.)	Buffing Wheel Capacity (max.)	Wire Brush Capacity (max)	Free Speed	Weight		Height		Spindle Size
Rear Exhaust				rpm	lbs.	kgs	in.	mm	
58SR Series – 1.1 hp (0.82 kW) – Non-Governed									
58SR-541	5"	5"	4"	7,200	5.4	2.4	4.8	122	5/8"-11
58SR-542	7"	7"	6"	6,000	5.4	2.4	4.8	122	5/8"-11
58SR-544	7"	7"	6"	4,500	5.4	2.4	4.8	122	5/8"-11
58SR-546	7"	8"	6"	3,000	5.8	2.4	4.9	124	5/8"-11
58SR-547	7"	8"	6"	1,500	5.8	2.4	4.9	124	5/8"-11
58SR Series – 1.6 hp (1.19 kW) – Governed									
58SR-550	5"	5"	4"	8,500	5.5	2.5	6.3	160	5/8"-11
58SR-551	5"	5"	4"	7,200	5.5	2.5	6.3	160	5/8"-11
 58SR-552	7"	7"	6"	6,000	5.8	2.6	6.3	160	5/8"-11
58SR-554	7"	7"	6"	4,500	5.8	2.6	6.3	160	5/8"-11
 58SR-556	7"	8"	6"	3,000	5.8	2.6	6.3	160	5/8"-11
58SR-557	7"	8"	6"	2,000	5.8	2.6	6.3	160	5/8"-11
58SR-587	9"	9"	6"	875	5.8	2.6	6.3	160	5/8"-11
58SR-588	9"	9"	6"	600	5.8	2.6	6.3	160	5/8"-11

GENERAL:

Air Inlet: 3/8" NPT - Use 3/8" (9.5mm) I.D. Hose
 All Tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Auxiliary side handle, spindle wrench

 Refer to page 5 for description of Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Belt Sanders

BUCKEYE®

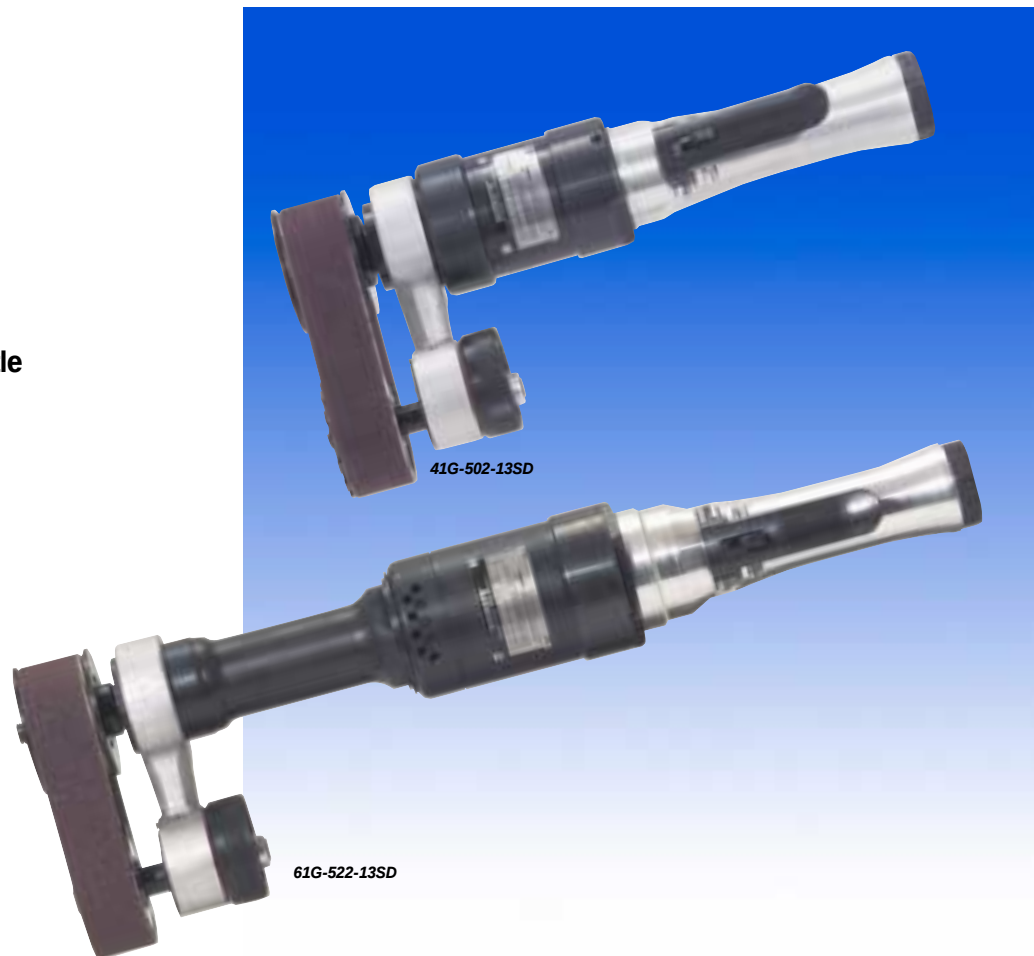
41G & 61G Series

Nominal Motor Power

0.85 & 1.5 hp

0.63 & 1.12 kW

- Front Exhaust
- Governed
- Lock-Off Lever Throttle



Model Number	Description	Sanding Belt Capacity	Free Speed	Weight		Length	
Front Exhaust			rpm	lbs.	kgs	in.	mm
41G Series – 0.85 hp (.63 kW) – Sanding Belt							
41G-502-13SD	Steel Drive	1" x 12"	15,000	4.8	2.2	12.5	318
41G-502-13RD	Rubber Drive	1" x 12"	15,000	4.8	2.2	12.5	318
41G Series – 0.85 hp (.63 kW) – Sanding Belt – 2.5" (64mm) Extended Head							
41G-522-13SD	Steel Drive	1" x 12"	15,000	5.5	2.5	15.0	381
41G-522-13RD	Rubber Drive	1" x 12"	15,000	5.5	2.5	15.0	381
61G Series – 1.5 hp (1.12 kW) – Sanding Belt – 2.5" (64mm) Extended Head							
61G-522-13SD	Steel Drive	1" x 12"	15,000	6.8	3.1	16.3	414
61G-522-13RD	Rubber Drive	1" x 12"	15,000	6.8	3.1	16.3	414

Attachment Number	Contact Wheel Durometer Hardness		
	50*	70	90
1024376	1008661	1008667	1008669
1024377	1008459	1008524	1005825

* Provided as standard equipment

GENERAL:

Air Inlet: 3/8" NPT – Use 3/8" (9.5mm) I.D. Hose
All tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT (41S Series):

No.80 and No.120 grit sanding belt, applicable wrenches, grease gun, gear lube, and contact wheel of 50 durometer hardness

EXTRA EQUIPMENT:

Attachments: See page 45

OPTIONAL EQUIPMENT:

Contact Wheel: A contact wheel of 70 or 90 durometer hardness furnished in place of standard equipment if specified at the time of ordering. A higher durometer number indicates harder rubber.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.



Cleco® offers a complete line of heavy-duty percussion tools for applications ranging from preparation of metal surfaces for painting to light demolition.

All Cleco tools are especially engineered for quality, durability and performance.

Triple Scalers

Our Cleco Triple Scalers are designed for heavy-duty removal of paint, rust, slag and scaling from metal structures, as well as pipes and boilers



Riveters & Chippers

Our Cleco Riveters & Chippers are used for both riveting and for applications including slag removal and chipping concrete.



Needle Scalers

Our Cleco Needle Scalers are used for light to medium duty removal of welding flux, slag, paint and scaling.

Chipping Hammers

Our Cleco Chipping Hammers are used for fettling of castings, chipping rust and paint off metal surfaces and light demolition work.



Bench & Floor Rammers

Our Cleco Bench & Floor Rammers are designed for ramming casting sand in castings and core boxes, or for tamping sand and stamping refractory furnace linings.



Cleco®

SC Series

- Piston Type
- Carbide Tipped Pistons (SC-3AC)



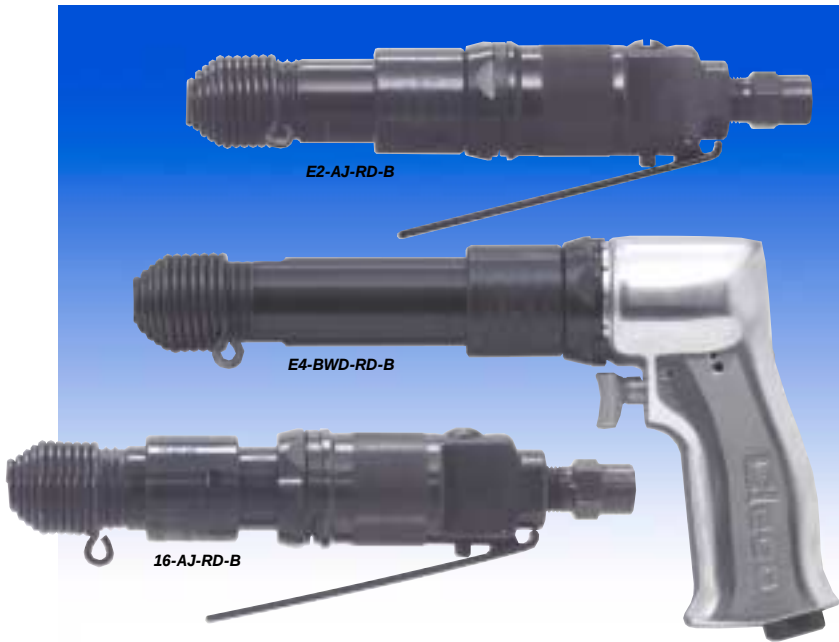
Model Number	Bore		Stroke		Blows Per Minute	Length		Weight	
	in.	mm	in.	mm		in.	mm	in.	mm
SC3A Series – Standard									
SC-3A	0.88	22	0.81	21	5,200	13.3	338	7.9	3.6
SC3A Series – Carbide Tipped Pistons									
SC-3AC	0.88	22	0.81	21	5,200	13.3	338	7.9	3.6
GENERAL:					STANDARD:				
Air Inlet: 3/8" NPT					Operating instructions & service manual				
Minimum Hose Size: 3/8"									
Tool performance rated at 90 psi (620kPa) air pressure.									

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1.

Cleco®

E & 16 Series

- Inline or Pistol Grip
- Rotatable Exhaust Deflector



Model Number		Bore		Stroke		Blows Per Minute	Length*		Weight	
Pistol Grip	Inline	in.	mm	in.	mm		in.	mm	lbs.	kg
E Series – Round Nose – Open Retainer										
E2-BWD-RD-O	E2-AJ-RD-O	0.50	13	2.25	57	2,400	6.6	168	2.3	1.0
E3-BWD-RD-O	E3-AJ-RD-O	0.50	13	3.00	76	1,900	7.8	198	2.4	1.1
E4-BWD-RD-O		0.50	13	4.00	102	1,600	8.4	213	2.6	1.2
E5-BWD-RD-O		0.50	13	5.00	127	1,400	9.4	239	2.9	1.3
E Series – Hex Nose – Open Retainer										
E2-BWD-HX-O	E2-AJ-HX-O	0.50	13	2.25	57	2,400	6.6	168	2.3	1.0
E3-BWD-HX-O	E3-AJ-HX-O	0.50	13	3.00	76	1,900	7.8	198	2.4	1.1
E4-BWD-HX-O		0.50	13	4.00	102	1,600	8.4	213	2.6	1.2
E5-BWD-HX-O		0.50	13	5.00	127	1,400	9.4	239	2.9	1.3
E Series – Round Taper Nose – Open Retainer										
E2-BWD-RT-O	E2-AJ-RT-O	0.50	13	2.25	57	2,400	6.6	168	2.3	1.0
E3-BWD-RT-O	E3-AJ-RT-O	0.50	13	3.00	76	1,900	7.8	198	2.4	1.1
E4-BWD-RT-O		0.50	13	4.00	102	1,600	8.4	213	2.6	1.2
E5-BWD-RT-O		0.50	13	5.00	127	1,400	9.4	239	2.9	1.3
16 Series – Round Nose – Open Retainer										
16-BWD-RD-O	16-AJ-RD-O	0.625	16	1.44	36	5,200	6.1	155	2.1	1.0
16 Series – Hex Nose – Open Retainer										
16-BWD-HX-O	16-AJ-HX-O	0.625	16	1.44	36	5,200	6.1	156	2.1	1.0
16 Series – Round Taper Nose – Open Retainer										
16-BWD-RT-O	16-AJ-RT-O	0.625	16	1.44	36	5,200	6.1	156	2.1	1.0

* Length is less retainer; add .25" (6mm) to length & reduce weight .1 lbs. (.06 kg) for inline E series models and add .5" (13mm) to length and add .1 lbs (.06 kg) for inline 16 series models

GENERAL:

Air Inlet: 1/4" NPTF;

Minimum Hose Size: 1/4"

Tool performance rated at 90 psi (620kPa) air pressure.

Note: Substitute B for O in model number for bee hive style retainer

STANDARD EQUIPMENT:

Operating instructions & service manual

OPTIONAL EQUIPMENT:

Additional accessories: Page 58

CAPACITY:

ALUMINUM OR IRON COLD RIVETS

E2-AJ: 1/8" (3.2 mm)

E2-BWD: 1/8" (3.2 mm)

E3-BWD: 5/32" (4.0 mm)

E4-BWD: 3/16" (4.8 mm)

E5-BWD: 1/4" (6.4 mm)

Cleco®

B1, BR Series

- Built-in Chisel Retainer
- Front Exhaust
- Lever, Push-Pull & Pistol Grip Models
- Needle Type



B1-CNB-LT-RD-K



B1-CNB-BV-RD

BR-CNB-PT

Model Number		Type	Bore		Stroke		Blows Per Minute	Length*		Weight*	
Round Nose	Rectangular Nose		in.	mm	in.	mm		in.	mm	lbs.	kg
Push-Pull Start											
B1-CNB-PT-RD	B1-CNB-PT-RET	Needle	1.0	25	1.1	28	4,600	16.8	427	6.3	2.9
BR-CNB-PT-RD	BR-CNB-PT-RET	Needle	1.0	25	1.1	28	4,200	17.3	439	6.3	2.9
Lever Start											
 B1-CNB-LT-RD	B1-CNB-LT-RET	Needle	1.0	25	1.1	28	4,600	15.0	381	6.3	2.9
 BR-CNB-LT-RD	BR-CNB-LT-RET	Needle	1.0	25	1.1	28	4,200	15.5	394	6.3	2.9
Pistol Handle											
B1-CNB-BV-RD	B1-CNB-BV-RET	Needle	1.0	25	1.1	28	4,600	17.4	442	8.4	3.8
BR-CNB-BV-RD	BR-CNB-BV-RET	Needle	1.0	25	1.1	28	4,200	17.9	455	8.3	3.8
Lever Start Kits**											
 B1-CNB-LT-RD-K	B1-CNB-LT-RET-K	Needle	1.0	25	1.1	28	4,600	15.0	381	6.3	2.9

* Length and weight include needles.

** Specs are for tool only

GENERAL:

Air Inlet: 1/4" NPTF

Minimum Hose Size: 5/16"

Tool performance rated at 90 psi (620kPa) air pressure.

Note: Kit includes tool, whip hose, extra set of needles, two chisels, extra chisel retainer, retainer parts and metal case.

STANDARD EQUIPMENT:

Operating instructions & service manual

OPTIONAL EQUIPMENT:

Additional Accessories: Page 58

 Refer to page 5 for description of Rapid Select.

Cleco®

B1, BR Series

- Built-in Chisel Retainer
- Lever, Push-Pull & Pistol Grip Models
- Chisel Type



Model Number	Type	Bore		Stroke		Blows Per Minute	Length*		Weight*	
		in.	mm	in.	mm		in.	mm	lbs.	kg
Push-Pull Start										
B1-C-PT	Chisel	1.0	25	1.1	28	4,600	12.0	305	4.3	2.0
BR-C-PT	Chisel	1.0	25	1.1	28	4,200	12.1	307	4.3	2.0
Lever Start										
B1-C-LT	Chisel	1.0	25	1.1	28	4,600	10.3	262	4.3	2.0
BR-C-LT	Chisel	1.0	25	1.1	28	4,200	10.4	264	4.3	2.0
Pistol Handle										
B1-C-BV	Chisel	1.0	25	1.1	28	4,600	12.6	320	6.4	2.9
BR-C-BV	Chisel	1.0	25	1.1	28	4,200	12.8	325	6.3	2.9

*Length and weight does not include chisel

GENERAL:

Air Inlet: 1/4" NPTF

Minimum Hose Size: 5/16"

Tool performance rated at 90 psi (620kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual

Spoon Chisel: 829310

OPTIONAL EQUIPMENT:

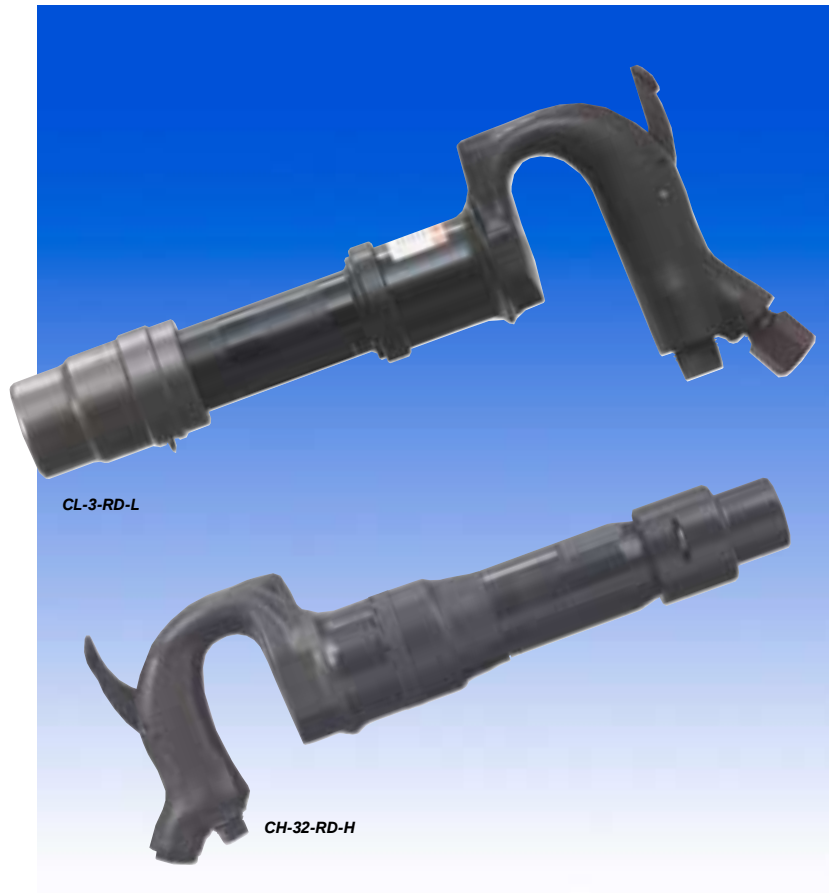
Additional Accessories: Page 58

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Cleco®

CL & CH Series

- Adjustable Exhaust Deflector
- Forged Handles
- Pistol Grip



Model Number		Retainer Type	Bore		Stroke		Blows Per Minute	Length*		Weight*	
Round Nose	Hex Nose		in.	mm	in.	mm		in.	mm	lbs.	kg
CL Series											
 CL-3-RD-L	 CL-3-HX-L	Standard	1.3	33	3.0	76	3,500	11.8	300	6	2.7
CH Series											
CH-22-RD-H	CH-22-HX-H	Standard	1.1	28	2.3	58	2,000	13.8	351	14	6.3
CH-22-RD-C	CH-22-HX-C	Cleco	1.1	28	2.3	58	2,000	13.8	351	14	6.3
CH-22-RD-Q		Quick Change	1.1	28	2.3	58	2,000	13.8	351	14	6.3
 CH-32-RD-H	 CH-32-HX-H	Standard	1.1	28	3.3	84	1,650	14.3	363	15	6.8
CH-32-RD-C	CH-32-HX-C	Cleco	1.1	28	3.3	84	1,650	14.3	363	15	6.8
CH-32-RD-Q	CH-32-HX-Q	Quick Change	1.1	28	3.3	84	1,650	14.3	363	15	6.8

* Less chisel

GENERAL:

Air Inlet: 3/8" NPT

Minimum Hose Size: 3/8"

Tool performance rated at 90 psi (620kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions & service manual

OPTIONAL EQUIPMENT:

Additional Accessories: Page 58

Refer to page 5 for description of Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.



Cleco®

RO, R1 & R4 Series

- Built-in Oiler
- Lever Start
- Self-cleaning Valve

Type	Model Number				Bore		Stroke		Blows Per Minute	Length*		Weight*	
	Pein	Malleable Iron Butt	Polyurethane 2 3/8" Butt	Polyurethane 3 3/8" Butt						in.	mm	lbs.	kg
					in.	mm							
RO, R1 Series													
BENCH	ROB-P1	ROB-M1	ROB-B1	ROB-B2	1.0	25	2.0	51	2,500	17.0	432	8.8	4.0
BENCH	RIB-P1	RIB-M1	RIB-B1	RIB-B2	1.0	25	4.0	102	1,700	20.5	521	12.3	5.6
FLOOR	RIF-P1	RIF-M1	RIF-B1	RIF-B2	1.0	25	4.0	102	1,700	43.0	1092	18	8.2
R4 Series													
BENCH	R4B-D-P2	R4B-D-M2	R4B-D-B3	R4B-D-B4	1.3	33	5.0	127	800	24.0	610	17.8	8.1
FLOOR	R4F-D-P2	R4F-D-M2	R4F-D-B3	R4F-D-B4	1.3	33	5.0	127	800	48.0	1219	23	10.4

GENERAL:

Air Inlet: 1/4" NPT (Bench Rammers), 3/8" (Floor Rammers)
 Minimum Hose Size: 5/16" (Bench Rammers), 1/2" (Floor Rammers)
 Tool performance rated at 90 psi (620kPa) air pressure.
 *Length and weight do not include termination.

STANDARD EQUIPMENT:

Operating instructions & service manual

OPTIONAL EQUIPMENT:

Additional Accessories: Page 58

Accessories

E & 16 Series Chisels & Shank Rivet Sets

Type	Style	Cutting Edge Dimensions		Round Stock Size		Overall Length		Shank Style Code	
		in.	mm	in.	mm	in.	mm	Round	Hexagon
Chisel Blank	G	—	—	1/2	12.7	6	152	839099	839095
Cold Chisel	G	1/2 x 1/16	12.7 x 1.6	1/2	12.7	6	152	839098	839096
Rivet Set Hard Blank	GP	—	—	1/2	12.7	3 1/2	89	839622	—



B1 Series Chisels (Safety Retainer Type)

Type	Cutting Edge		Square Stock Size		Overall Length		Code Number
	in.	mm	in.	mm	in.	mm	
Hardened Blank	—	—	1/2	12.7	7 1/2	190	839052
Hardened Blank	—	—	1/2	12.7	12	305	839053
Hardened Blank	—	—	1/2	12.7	18	457	839054
Cold Chisel	3/4	19	1/2	12.7	7 1/2	190	839051
Cold Chisel	3/4	19	1/2	12.7	12	305	839341
Cold Chisel	3/4	19	1/2	12.7	18	457	839335
Cold Chisel	1 1/2	38	1/2	12.7	8	203	839467
Spoon Chisel	1 3/8	35	1/2	12.7	7 1/4	184	839050
Spoon Chisel	1 3/8	35	1/2	12.7	12	305	839299
Spoon Chisel	1 3/8	35	1/2	12.7	18	457	839334
Spoon Chisel	1	25	1/2	12.7	7 1/4	184	839740

BR Series Chisels (Safety Retainer Type)

Type	Cutting Edge		Round Stock Size		Overall Length		Code Number
	in.	mm	in.	mm	in.	mm	
Blank	—	—	5/8	16	6 1/2	165	829172
Blank	—	—	5/8	16	7 1/2	190	829173
Short Wide Blade	1 1/4 x 1/8	31.8 x 3.2	5/8	16	4 3/8	111	829167
Narrow Blade	5/8 x 5/32	15.9 x 2.4	5/8	16	4 3/8	98	829168
Long Wide Blade	1 3/4 x 3/32	44.5 x 2.4	5/8	16	7	203	829165
Cold	3/4 x 3/32	19.1 x 2.4	5/8	16	8 1/2	216	829150
Scaling	1 1/4 x 3/32	31.8 x 2.4	5/8	16	9	229	829301
Spoon	1 3/8 x 3/32	34.9 x 2.4	5/8	16	7 1/2	190	829310
Diamond Point	7/32 x 1/4	5.6 x 6.4	5/8	16	6	152	829182



CL & CH Series Chisels & Chisel Blanks

Type	Octagon Stock Size		Overall Length		Shank Style Code	
	in.	mm	in.	mm	Round	Hexagon
Cold	3/4	19	9	229	839014	839008
Cold	3/4	19	12	305	839083	839009
Cold	3/4	19	18	457	—	839010
Moil Point	3/4	19	9	229	839023	839018
Moil Point	3/4	19	12	305	839190	839084
Blank	3/4	19	8	203	839004	839001
Blank	3/4	19	12	305	839005	—
Blank	3/4	19	18	457	—	839003



R0, R1 & R4 Series Peins & Butts

Part No.	Size	Material	Used on
Peins			
829557	1" x 2 7/8"	Polyurethane	ROB, R1B & R1F
829556	1" x 2 5/8"	Polyurethane	R4B & R4F
Butts			
832825	2 3/8"	Malleable Iron	ROB, R1B & R1F
832824	3"	Malleable Iron	R4B & R4F
829558	2 3/8"	Polyurethane	ROB, R1B & R1F
829559	3 3/8"	Polyurethane	ROB, R1B & R1F
829560	3 3/8"	Polyurethane	R4B & R4F
829561	4 3/8"	Polyurethane	R4B & R4F



WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Cleco®

136 Series

- Spade or Lock-off Lever Handle
- Pivoting Front Shoe
- Feather Throttle



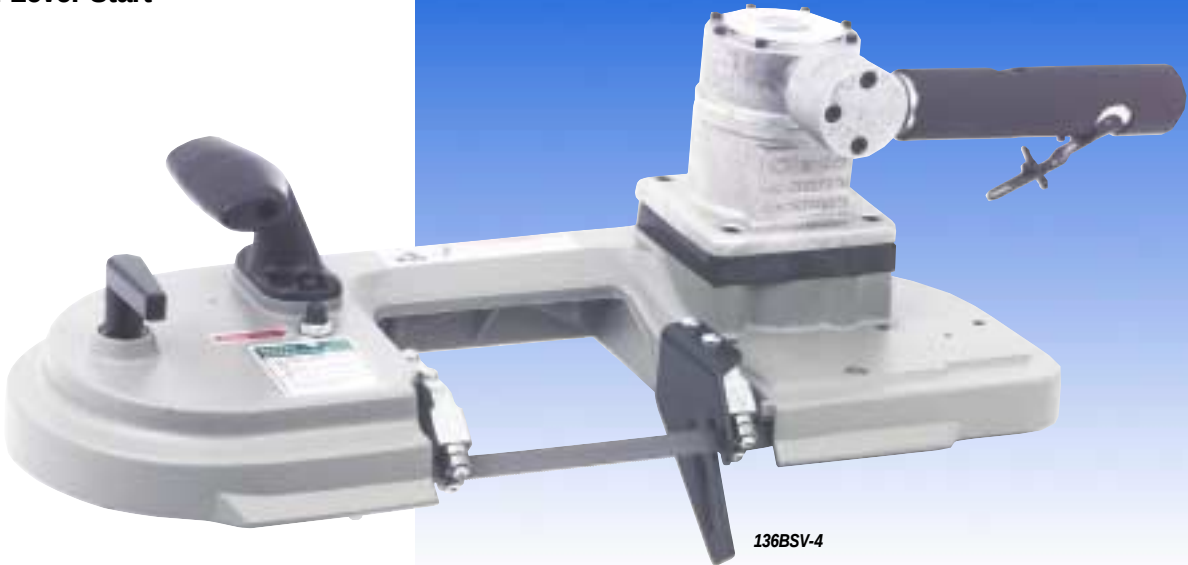
Model Number	Strokes per Minute	Length of Stroke		Length		Weight	
		in.	mm	in.	mm	in.	mm
136 Series - .75 hp (.56 kW) - Spade Handle							
136RX	2,600	1.1	28	17.8	452	9.3	4
136 Series - .75 hp (.56 kW) - Lock-off Lever Handle							
136RL	2,600	1.1	28	17.3	439	8.3	4
GENERAL:				STANDARD EQUIPMENT:			
Air Inlet: 1/2" NPTF				Operating instructions and service manual			
Minimum Hose Size: 3/8" (9mm)				3/16 Hex wrench			
Tool performance rated at 90 psi (620kPa) air pressure.							

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Cleco®

136 Series

- Variable Speed Control
- Adjustable Handle
- Lock-off Lever Start



Model	Cutting Capacity		Blade Capacity		Length		Height		Width		Weight	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lbs.	kg
136 Series - .75 hp (.56 kW)												
136BSV-4	4.8	122	44 7/8 x 1/2 x .02	1140 x 12.7 x .5	22.25	565	7.0	178	8.3	211	12.5	5.7

GENERAL:
Air Inlet: 1/4" NPTF
Minimum Hose Size: 1/4"
Tool performance rated at 90 psi (620kPa) air pressure.

STANDARD EQUIPMENT:
Operating instructions and service manual
18 teeth/in. blade: 204271

STANDARD EQUIPMENT IF SPECIFIED*:

14 teeth/in. blade: 204270
24 teeth/in. blade: 204272

*replaces standard blade

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.



Buckeye®, Cleco® and Dotco® drills are used daily in applications ranging from aerospace to oil fields and refineries. Three styles are available - pistol grip, straight handle, and right angle models. Drills in this section range from 0.3 – 1.5HP. Plus, dead handles are available for several Cleco 15 Series models.



Parts interchangeability

Maintenance of tools can be time consuming...and expensive. That is why our products have been designed with high parts inter-changeability. With fewer parts required to repair our tools, less inventory of parts is required and tools are easier to repair.

Precision parts

It's simple, precision parts let operators manufacture precision products. Whether it is a spindle, a chuck, a motor or an angle head, our parts are manufactured from the finest materials available and are machined to the highest tolerances. It is understandable why we are proud of the .0005" runout on our collet model tools.



WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Pistol Grip Drills

BUCKEYE®

21D Series

Nominal Motor Power

0.4 hp
0.30 kW

- Two Stage Throttle
- 360° Rotable Exhaust



Model Number	Drill Diameter Capacity	Free Speed	Weight		Height		Geared Chuck Size
Rotable Exhaust		rpm	lbs.	kgs	in.	mm	
21D Series – 0.4 hp (0.30 kW)							
21D-100-38•	1/4"	29,500	1.5	0.7	6.3	159	1/4"
 21D-101-38•	1/4"	5,200	1.5	0.7	6.3	159	1/4"
 21D-102-38•	1/4"	3,800	1.5	0.7	6.3	159	1/4"
 21D-103-38•	1/4"	3,200	1.5	0.7	6.3	159	1/4"
21D-104-38•	1/4"	2,400	1.7	0.8	6.6	168	1/4"
21D-105-38•	1/4"	1,000	1.8	0.8	7.4	168	1/4"
21D-106-38•	1/4"	700	1.8	0.8	7.4	168	1/4"
21D-107-38•	1/4"	600	1.8	0.8	7.4	168	1/4"

GENERAL:

Air Inlet: 1/4" NPT – Use 1/4" (6.4mm) I.D. Hose
All Tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Jacobs geared chuck, chuck key

OPTIONAL EQUIPMENT:

Oilless blades (•)



EXTRA EQUIPMENT:

Dead Handle: 539602
Suspension Bail: 1008340

OPTIONAL CHUCK TERMINATIONS:

-51 = 3/8" Jacobs (41BA) -54 = 1/4" Slip Chuck

 Refer to Page 5 for description of Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.



DOTCO®

15CF & 15CS Series

Nominal Motor Power
0.4 & .6 hp
0.44 & 0.074 kW

- **Non-Reversible**
- **Small or Large Handles**

Model Number		Drill Diameter Capacity	Free Speed	Weight*		Length*		Geared Chuck Size
Small Handle	Large Handle		rpm	lbs.	kgs	in.	mm	
15CF Series – 0.4 hp (0.30 kW)								
15CFS90-38	15CFL90-38	1/4"	29,000	1.6	0.7	5.7	145	3/8"
15CFS91-38	15CFL91-38	1/4"	5,200	1.6	0.7	5.7	145	3/8"
 15CFS92-38	 15CFL92-38	1/4"	3,800	1.6	0.7	5.7	145	3/8"
 15CFS93-38	 15CFL93-38	1/4"	3,200	1.6	0.7	5.7	145	3/8"
15CFS94-38	15CFL94-38	1/4"	2,400	1.6	0.9	6.9	175	3/8"
15CFS95-38	15CFL95-38	1/4"	1,000	1.6	0.9	6.9	175	3/8"
15CFS96-38	15CFL96-38	1/4"	700	1.6	0.9	6.9	175	3/8"
15CFS97-38	15CFL97-38	1/4"	600	1.6	0.9	6.9	175	3/8"
15CS Series – 0.6 hp (0.45 kW)								
15CSS90-38	15CSL90-38	1/4"	20,000	2.0	0.9	6.1	155	1/4"
15CSS99-38	15CSL99-38	1/4"	9,000	2.8	1.3	7.9	201	1/4"
15CSS98-38	15CSL98-38	1/4"	6,000	2.0	0.9	6.1	155	1/4"
 15CSS91-38	 15CSL91-38	1/4"	5,200	2.0	0.9	6.1	155	1/4"
 15CSS92-38	 15CSL92-38	1/4"	3,200	2.0	0.9	6.1	155	1/4"
15CSS93-38	15CSL93-38	1/4"	1,900	2.6	1.2	7.5	191	1/4"
15CSS94-51	15CSL94-51	3/8"	1,600	2.8	1.3	7.9	201	3/8"
15CFS95-51	15CSL95-51	3/8"	1,300	2.8	1.3	7.9	201	3/8"
15CSS96-51	15CSL96-51	3/8"	800	2.8	1.3	7.9	201	3/8"
 15CSS97-51	 15CSL97-51	3/8"	500	2.8	1.3	7.9	201	3/8"

* For weight and length of large handle models, add 0.2 lb (0.1kg) and 0.12 in. (3mm)

GENERAL:

Air Inlet: 1/4" NPT – Use 5/16" (7.9mm) I.D. Hose

All tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Jacobs geared chuck, chuck key, dead handle
 (All models with a chuck opening greater than 1/4")

EXTRA EQUIPMENT:

Dead Handle: 15CF Models - 1025750
 15CS Models - 1023972

CHUCK GUARD:

Extra Cost: To add a chuck guard to the standard models shown in the table, specify 1110903 Adapter, 1110900 Guard (-38 models), or 1110901 Guard (-51 models).

LOW NOISE OPTION:

Add "E" to the end of the model number.

Refer to Page 5 for description of Rapid Select.

Pistol Grip Drills

DOTCO®

15CN Series

Nominal Motor Power

0.9 hp

0.67 kW

■ Non-Reversible

■ Small or Large Handles



15CNL92-51

Model Number		Drill Diameter Capacity	Free Speed	Weight*		Length*		Geared Chuck Size
Small Handle	Large Handle		rpm	lbs.	kgs	in.	mm	
15CN Series – 0.9 hp (0.67 kW)								
15CNS90-38	15CNL90-38	1/4"	20,000	2.1	1.0	6.6	168	1/4"
15CNS99-38	15CNL99-38	1/4"	9,000	3.4	1.5	8.9	226	1/4"
15CNS98-38	15CNL98-38	1/4"	6,000	2.1	1.0	6.6	168	1/4"
 15CNS91-51	 15CNL91-51	3/8"	5,200	2.3	1.0	7.0	178	3/8"
 15CNS92-51	 15CNL92-51	3/8"	3,200	2.3	1.0	7.0	178	3/8"
15CNS93-51	 15CNL93-51	3/8"	1,900	2.7	1.2	8.4	213	3/8"
15CNS94-51	15CNL94-51	3/8"	1,600	2.7	1.2	8.4	213	3/8"
15CNS95-51	15CNL95-51	3/8"	1,300	2.7	1.2	8.4	213	3/8"
15CNS96-51	15CNL96-51	3/8"	800	2.7	1.2	8.4	213	3/8"
 15CNS97-53	 15CNL97-53	1/2"	500	3.4	1.5	8.9	226	1/2"

* For weight and length of large handle models, add 0.2 lb (0.1kg) and 0.12 in. (3mm)

GENERAL:

Air Inlet: 1/4" NPT - Use 5/16" (7.9mm) I.D. Hose

All tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Jacobs geared chuck, chuck key, dead handle
(All models with a chuck opening greater than 1/4")

EXTRA EQUIPMENT:

Dead Handle: 1023972

CHUCK GUARD:

Extra Cost: To add a chuck guard to the standard models shown in the table, specify 1110903 Adapter, 1110900 Guard (-38 models), or 1110901 Guard (-51 models).

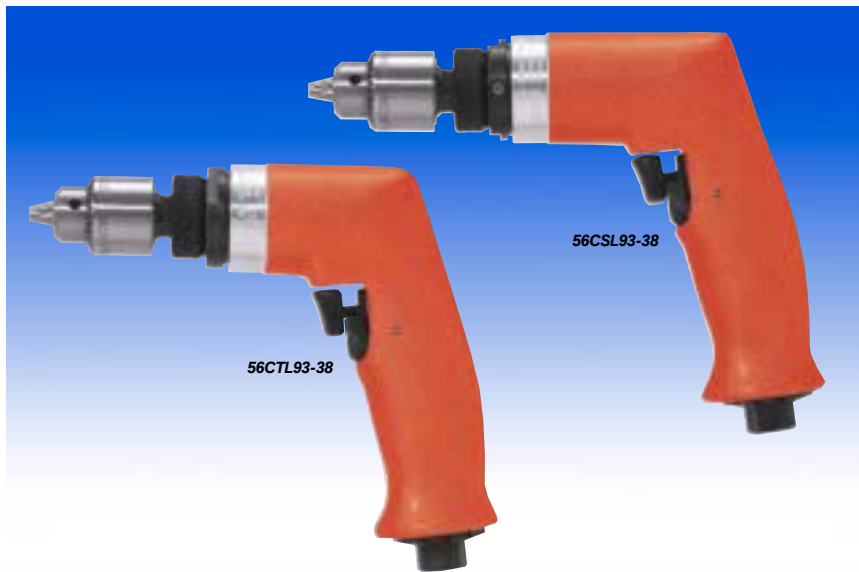
LOW NOISE OPTION:

Add "E" to the end of the model number.

Refer to Page 5 for description of Rapid Select.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Reversible/Pistol Grip Drills



DOTCO®

56CT, 56CS & 56CN Series

Nominal Motor Power

0.3, 0.5 & 0.75 hp

0.22, 0.37 & 0.56 kW

■ **Reversible**

■ **Small or Large Handles**

Model Number		Drill Diameter Capacity	Free Speed	Weight*		Length*		Geared Chuck Size
Small Handle	Large Handle		rpm	lbs.	kgs	in.	mm	
56CT Series – 0.3 hp (0.22 kW)								
56CTS91-38	56CTL91-38	1/4"	4,500	1.8	0.8	6.7	170	1/4"
56CTS92-38	56CTL92-38	1/4"	2,800	1.8	0.8	6.7	170	1/4"
56CTS93-38	56CTL93-38	1/4"	1,700	1.8	0.8	6.7	170	1/4"
56CTS94-38	56CTL94-38	1/4"	1,400	1.9	0.9	7.1	180	1/4"
56CTS95-38	56CTL95-38	1/4"	1,000	2.1	1.0	7.9	201	1/4"
56CTS96-38	56CTL96-38	1/4"	620	2.1	1.0	7.9	201	1/4"
56CTS97-38	56CTL97-38	1/4"	370	2.1	1.0	7.9	201	1/4"
56CS Series – 0.3 hp (0.22 kW)								
56CSS91-38	56CSL91-38	1/4"	4,500	1.9	0.9	7.1	180	1/4"
56CSS92-38	56CSL92-38	1/4"	2,800	1.9	0.9	7.1	180	1/4"
56CSS93-38	56CSL93-38	1/4"	1,700	1.9	0.9	7.1	180	1/4"
56CSS94-38	56CSL94-38	1/4"	1,400	2.0	0.9	7.5	191	1/4"
56CSS95-51	56CSL95-51	3/8"	1,000	2.7	1.2	8.9	226	3/8"
56CSS96-51	56CSL96-51	3/8"	620	2.7	1.2	8.9	226	3/8"
56CSS97-51	56CSL97-51	3/8"	370	2.7	1.2	8.9	226	3/8"
56CN Series – 0.75 hp (0.56 kW)								
56CNS91-38	56CNL91-38	1/4"	4,000	2.1	1.0	7.6	193	1/4"
56CNS92-38	56CNL92-38	1/4"	2,500	2.1	1.0	7.6	193	1/4"
56CNS93-38	56CNL93-38	1/4"	1,500	2.1	1.0	7.6	193	1/4"
56CNS94-38	56CNL94-38	1/4"	1,200	2.2	1.0	8.0	203	1/4"
56CNS95-51	56CNL95-51	3/8"	900	2.8	1.3	9.4	239	3/8"
56CNS96-51	56CNL96-51	3/8"	650	2.8	1.3	9.4	239	3/8"
56CNS97-51	56CNL97-51	3/8"	330	2.8	1.3	9.4	239	3/8"

* For weight and length of large handle models, add 0.1 lb (0.05kg) and 0.2 in. (5mm)

GENERAL:

Air Inlet: 1/4" NPT – Use 5/16" (7.9mm) I.D. Hose

All tools performance rated @ 90psi (620 kPa) air pressure.

STANDARD EQUIPMENT:

Jacobs geared chuck, chuck key, dead handle
(All models with a chuck opening greater than 1/4")

EXTRA EQUIPMENT:

Dead Handle: 56CT Models – 1025750
56CS Models – 1023972
56CN Models – 1023972

LOW NOISE OPTION:

Add "E" to the end of the model number.

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Cleco®

15 Series

Speed Range:
160 – 3000 rpm

Nominal Motor Power
1.0 HP
0.75 kW

■ **Trigger & Lever Start**

■ **Non-reversible**



Model Number	Free Speed	Stall Torque		Chuck Capacity*		Length		Weight	
	rpm	ft. lb.	Nm	in.	mm	in.	mm	lb.	kg

Pistol Grip models

15DP-1.6B-53	160	160†	217†	1/2	13	9 3/4	248	6	2.7
15DP-4B-53	400	44†	60.0†	1/2	13	8 1/2	216	5 1/2	2.5
15DP-8B-53	800	22	30.0	1/2	13	8 1/2	216	5 1/2	2.5
15DP-14B-49	1400	14	19.0	3/8	10	8 1/4	210	4 1/2	2.0
15DP-20B-49	2000	10	13.5	3/8	10	7 1/4	184	4 1/4	1.9
15DP-30B-49	3000	7	9.5	3/8	10	7 1/4	184	4 1/4	1.9

Straight handle models

15DL-4B-49	400	44†	60.0†	3/8	10	10	254	5 1/4	2.4
15DL-8B-49	800	22	30.0	3/8	10	10	254	5 1/4	2.4
15DL-14B-49	1400	14	19.0	3/8	10	10	254	5 1/4	2.4

GENERAL:

Air Inlet: 3/8" NPTF
Minimum Hose Size: 3/8"
Spindle Thread: 1/2"-20
Spindle Offset: Pistol Grip: 31/32"
Lever Grip: 1 3/32"

STANDARD EQUIPMENT:

Operating instructions and service manual
Dead handles on all models except 15DP-14B, 15DP-20B and 15DP-30B
3-jaw Chuck and Key

*CAPACITY CAUTION NOTE:

Pistol Grip 15 Series Drills must be equipped with support handle (881580) when used with chucks larger than 3/8" capacity. Straight handle 15 series drills should not be equipped with chucks larger than 3/8" capacity.

†Theoretical stall torque based on gear reduction. These tools are intended for slow speed applications and not high torque applications. High maintenance should be expected if tools are operated in their upper torque range.

CAUTION:

High reaction torque may be experienced with any drill at break-through. Caution must be exercised when using any cutting tool because of the possibility of the cutting tool bending or breaking. Cutting tool maximum speed rating must equal or exceed speed of tool. Eye protection must be worn while operating power tools.

Cleco®

135 Series

Speed Range:
600 – 2600 rpm

Nominal Motor Power
0.7 HP
0.5 kW

- Sand Cast Handle
- Hardened Steel Back Cap
- Governed Speed Control
- Variable Speed
- Calibrated Speed Control
- Non-reversible



Model Number	Speeds rpm		Chuck Capacity*		Length		Weight	
	Free	Governed	in.	mm	in.	mm	lb.	kg
135DPV-7B-43	600	150 - 550	3/8	10	9 5/8	244	3 5/8	1.6
 135DPV-7B-50	600	150 - 550	1/2	13	9 5/8	244	3 5/8	1.6
135DPV-14B-50	1250	400 - 1200	1/2	13	9 1/4	235	3 3/8	1.5
 135DPV-14B-51	1250	400 - 1200	3/8	10	9 1/4	235	3 3/8	1.5
136DPV-28B-51	2600	700 - 2400	3/8	10	8 1/2	216	3 1/8	1.4

GENERAL:

Air Inlet: 1/4" NPT
Minimum Hose Size: 1/4" (6mm)
Spindle Offset: 25/32" (20mm)
Tool performance rated at 90 psi (620kPa) air pressure.

STANDARD EQUIPMENT:

Operating instructions and service manual
3-jaw Chuck and Key

*CAPACITY CAUTION NOTE:

135DPV Drills must be equipped with support handle (861006) if 1/2" (13mm) capacity chuck is specified.

CAUTION:

High reaction torque may be experienced with any drill at break-through. Caution must be exercised when using any cutting tool because of the possibility of the cutting tool bending or breaking. Cutting tool maximum speed rating must equal or exceed speed of tool. Eye protection must be worn while operating power tools.

 Refer to page 5 for description of Rapid Select.

Right Angle Drills

Cleco®

136 Series

Speed Range:
450 – 3300 rpm

Nominal Motor Power
0.8 HP
0.6 kW

- Inline Handle
- Lever Start
- Non-reversible



Model Number	Free Speed	Stall Torque		Length		Weight		External Spindle Thread	Chuck Capacity	Head Size
	rpm	in. lbs.	Nm	in.	mm	lb.	kg			
136 Series - .8 hp (.6 kW) - Right Angle										
136DL-5M-43	450	400	45	11.3	287	3.8	1.7	3/8"-24	3/8"	M
136DL-7K-38	600	300	34	10.9	277	2.9	1.3	3/8"-24	1/4"	K
136DL-7M-43	600	300	34	11.3	287	3.8	1.7	3/8"-24	3/8"	M
136DL-10K-38	900	200	23	10.9	277	2.9	1.3	3/8"-24	1/4"	K
136DL-10M-43	900	200	23	10.4	264	3.8	1.7	3/8"-24	3/8"	M
136DL-20K-38	1,800	120	14	10.1	257	2.6	1.2	3/8"-24	1/4"	K
136DL-20M-43	1,800	120	14	10.4	264	3.5	1.6	3/8"-24	3/8"	M
136DL-30K-38	2,500	80	9.0	10.1	257	2.6	1.2	3/8"-24	1/4"	K
136DL-40K-38	3,300	65	7.3	10.1	257	2.6	1.2	3/8"-24	1/4"	K

GENERAL:

Air Inlet: 1/4" NPT
Minimum Hose Size: 5/16"
Tool performance rated at 90 psi (620 kPa) air pressure

†Theoretical stall torque based on gear reduction. These tools are intended for slow speed applications and not high torque applications. High maintenance should be expected if tools are operated in their upper torque range.

STANDARD EQUIPMENT:

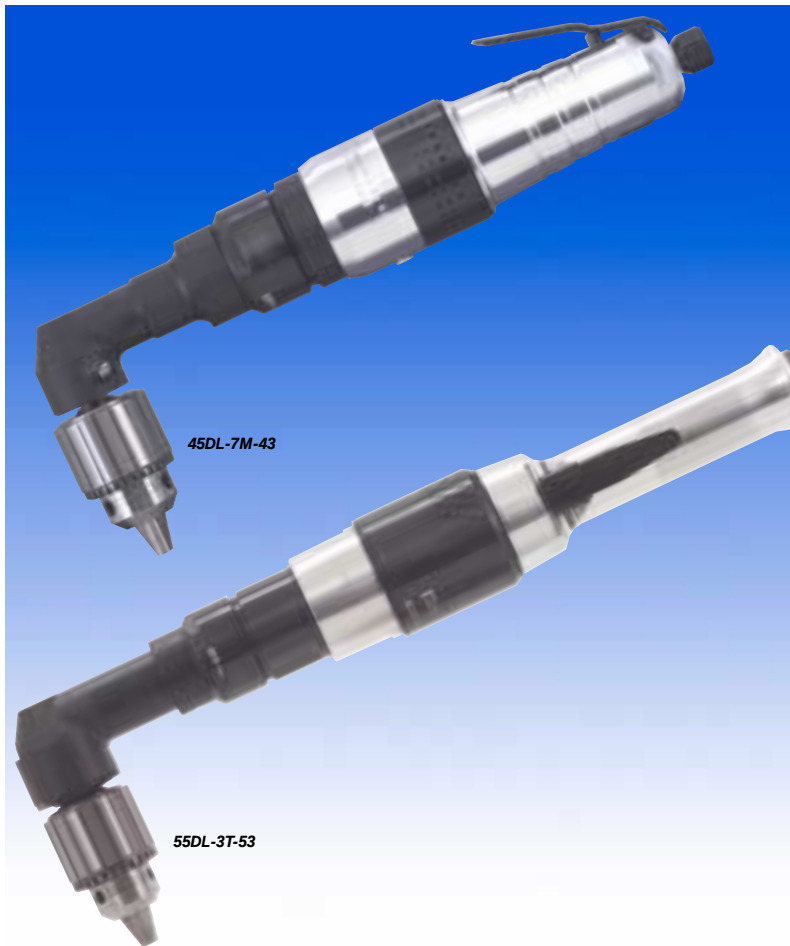
Operating instructions and service manual
Chuck & Key

OPTIONAL EQUIPMENT:

Additional Accessories: Page 70

CAUTION:

High reaction torque may be experienced with any drill at break-through. Caution must be exercised when using any cutting tool because of the possibility of the cutting tool bending or breaking. Cutting tool maximum speed rating must equal or exceed speed of tool. Eye protection must be worn while operating power tools.



Cleco®

45 & 55 Series

Speed Range:

No. 45: 580 – 1080 rpm

No. 55: 220 – 1350 rpm

Nominal Motor Power

0.9 & 1.5 HP

0.7 & 1.2 kW

- Inline Handle
- Lever Start
- Non-reversible

Model Number	Free Speed	Stall Torque		Length		Weight		External Spindle Thread	Chuck Capacity	Head Size
	rpm	ft. lbs.	Nm	in.	mm	lb.	kg			
45 Series - 0.9 hp (0.7 kW) - Right Angle										
45DL-6M-43	580	30	41	12.5	318	5.4	2.4	3/8"-24	3/8"	M
45DL-7M-43	740	23	31	11.9	302	4.1	1.9	3/8"-24	3/8"	M
45DL-10M-43	1,080	16	22	11.4	290	4.9	2.2	3/8"-24	3/8"	M
55 Series - 1.5 hp (1.2 kW) - Right Angle										
55DL-2T-53	220	140†	190†	16.7	424	7.3	3.3	1/2"-20	1/2"	T
55DL-3T-53	300	105†	142†	16.7	424	7.3	3.3	1/2"-20	1/2"	T
55DL-4T-53	440	72	98	16.7	424	7.3	3.3	1/2"-20	1/2"	T
55DL-6T-53	590	54	73	16.7	424	7.3	3.3	1/2"-20	1/2"	T
55DL-7M-43	920	35†	47†	15.9	404	6.1	2.8	3/8"-24	3/8"	M
55DL-10M-43	1,350	24	33	15.4	391	5.9	2.7	3/8"-24	3/8"	M

GENERAL:

Air Inlet: 1/4" NPT (45 Series); 1/2" NPT (55 Series)
 Minimum Hose Size: 5/16" (45 Series); 1/2" (55 Series)
 Tool performance rated at 90 psi (620kPa) air pressure.

† Theoretical stall torque based on gear reduction. These tools are intended for slow speed applications and not high torque applications. High maintenance should be expected if tools are operated in their upper torque range.

STANDARD EQUIPMENT:

Operating instructions and service manual
 3-jaw Chuck and Key

OPTIONAL EQUIPMENT:

Additional Accessories: Page 70

CAUTION:

High reaction torque may be experienced with any drill at break-through. Caution must be exercised when using any cutting tool because of the possibility of the cutting tool bending or breaking. Cutting tool maximum speed rating must equal or exceed speed of tool. Eye protection must be worn while operating power tools.

Drill Accessories

Quick-Change Chuck

Thread Size	Capacity	Part Number
3/8"-24	1/4" Hex	849414



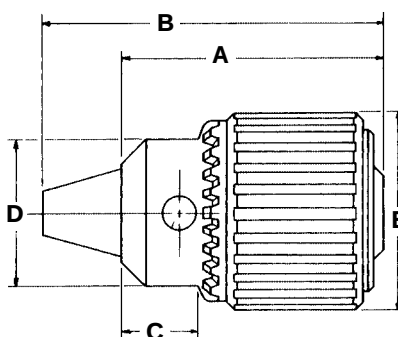
Dead Handles

Drill Model	Part Number
8	861006
111	861006
135	861006
15	881580
136	861006



Collet Chuck (1/4-28 Male Thread)

Drill Size	Part Number
3/32"	863816
1/8"	863814
5/32"	863812
3/16"	863810
1/4"	863806



Three Jaw Chucks

Capacity	Thread Size	Chuck Part Number	Chuck Key Part Number	General Dimensions										Weight	
				A		B		C		D		E			
				in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	oz.	kgs
1/4"	3/8"-24	849102	849116	1 9/16	40	1 15/16	49	1/2	13	7/8	22	1 3/16	30	5	.14
1/4"	3/8"-24	849106	849118	1 13/16	46	2 1/4	57	1/2	13	15/16	24	1 5/16	33	7	.20
3/8"	3/8"-24	849108	849120	1 15/16	49	2 7/16	62	5/8	16	1	25	1 7/16	36	8	.23
3/8"	3/8"-24	849103	849123	2 3/16	56	2 13/16	71	11/16	17	1 1/4	32	1 13/16	46	13	.37
3/8"	1/2"-20	849122	849121	2 5/16	59	3 1/16	78	11/16	17	1 1/4	32	1 13/16	46	16	.46
1/2"	3/8"-24	889335	849121	2 7/16	62	3 1/8	79	3/4	19	1 1/4	32	1 13/16	46	16	.46
1/2"	1/2"-20	849415	849121	2 7/16	62	3 1/8	79	3/4	19	1 1/4	32	1 13/16	46	16	.46



Cleco®

Balance arms absorb torque, support weight and improve productivity.

Cleco balance arms are engineered to deliver longer service life using durable components, rugged design and operator-sensitive features.

These arms absorb the torque produced by the screwdriver, eliminating torque reaction to the operator. Balanced by springs or air cylinders, the arm and not the operator supports the weight of the tool. By reducing the fatigue factors, operator productivity is improved.

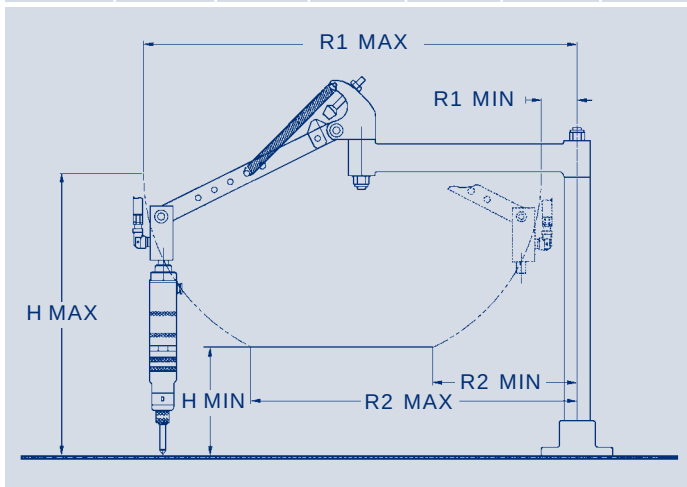
Tool movement and placement over the fastener is virtually effortless since most moving parts of the balance arm are mounted on ball bearings. Access to the tool is easily changeable by adjusting the springs or cylinder supporting the forearm.

Arm components and materials are selected for strength and rigidity. Precision aluminum sand castings used in the articulating arm section are light but sturdy.

Over 60 models of the Cleco balance arms are available. Air cylinder models are capable of supporting tools weighing up to 10 lbs. (4.5 kg.). Spring models will support tools weighing up to 5 lbs. (2.3 kg.). Both styles have torque capacities of 10 ft. lbs. (13.5 Nm). Arms can be post mounted, wall mounted or mounted on an adjustable height post. Tool holders for all models will accommodate most major brands of air tools...straight and pistol.

Balance Arm Operating Envelope

MODEL	R1 MAX		R1 MIN		R2 MAX		R2 MIN		H MAX		H MIN	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
SBA-12	24	610	2	51	18	457	8	203	15	381	6	152
SBA-18	30	762	6	152	20	508	7	178	15	381	0	0
PBA-12	26	660	3	76	20	508	7	178	17	432	8	203
PBA-18	32	813	8	203	22	559	6	152	17	432	2	51



Tool Holders

Selecting the proper tool holder for the tool used on Cleco balance arms enhances the ergonomic benefits of the arm. Tool holders allow the tool to swing, swivel and rotate, enabling the operator to work more comfortably and productively.

Standard and extended tool holders are available for parallel balance arms. Both models hold the tool perpendicular to the work, and are ideal for self-tapping and thread forming applications. Tool diameter capacity is up to 1 3/4 inch (45mm).

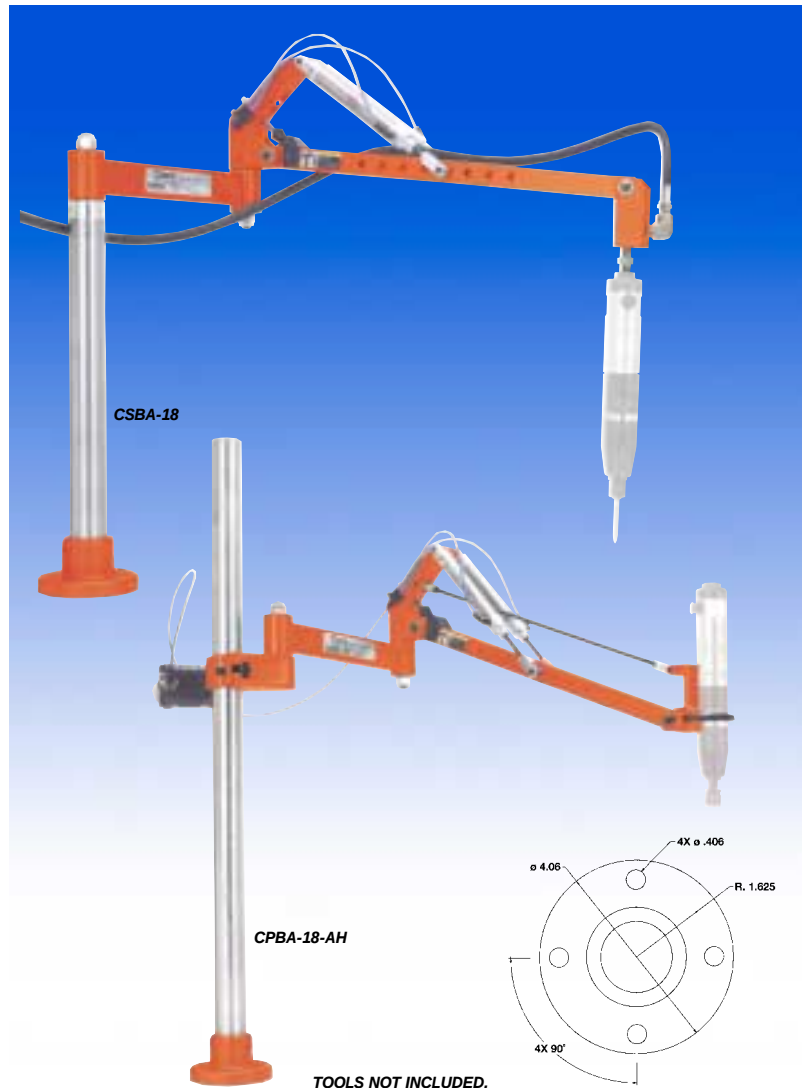
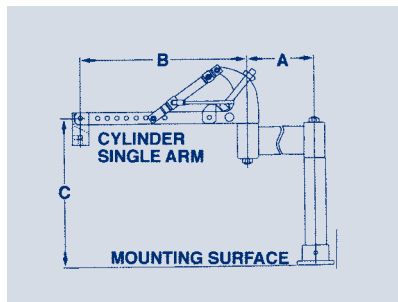
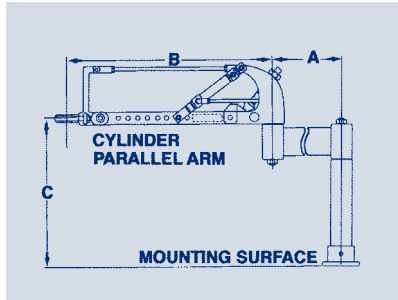
Manifold tool holders used on SBA and CSBA balance arms suspend the tool from the air inlet. They allow the tool to swing (or swivel when equipped with the optional swivel assembly) for ease of tool movement.

Balance Arms

Air Cylinder

Cleco®

- Ball bearing construction
- Supports tools weighing up to 10 lbs.
- Post, wall, or adjustable height post mounting
- Single or parallel arms



Single Arms		Parallel Arms		Dimensions							
Model No.	Code No.	Model No.	Code No.	A		B		C		Post Height	
				in.	mm	in.	mm	in.	mm	in.	mm
CSBA-12	520163	CPBA-12	520176	12	305	12	305	18	457	-	-
CSBA-18	520160	CPBA-18	520170	12	305	18	457	18	457	-	-
CSBA-24	520200	CPBA-24	520202	12	305	24	610	18	457	-	-
CSBA-30	520201	CPBA-30	520203	12	305	30	762	18	457	-	-
CSBA-12-AH	520165	CPBA-12-AH	520178	12	305	12	305	-	-	30	762
CSBA-18-AH	520162	CPBA-18-AH	520172	12	305	18	457	-	-	30	762
CSBA-30-AH	520167	CPBA-30-AH	520215	12	305	30	762	-	-	30	762
CSBA-12-WM	520164	CPBA-12-WM	520177	12	305	12	305	-	-	-	-
CSBA-18-WM	520161	CPBA-18-WM	520171	12	305	18	457	-	-	-	-
CSBA-24-WM	520204	CPBA-24-WM	520206	12	305	24	610	-	-	-	-
CSBA-30-WM	520205	CPBA-30-WM	520207	12	305	30	762	-	-	-	-

AH = Adjustable Height
WM = Wall Mounted
Tool weight capacity: 10 lbs. (4.6 kg)
Torque capacity: 10 ft. lbs. (13.5 Nm)

STANDARD EQUIPMENT

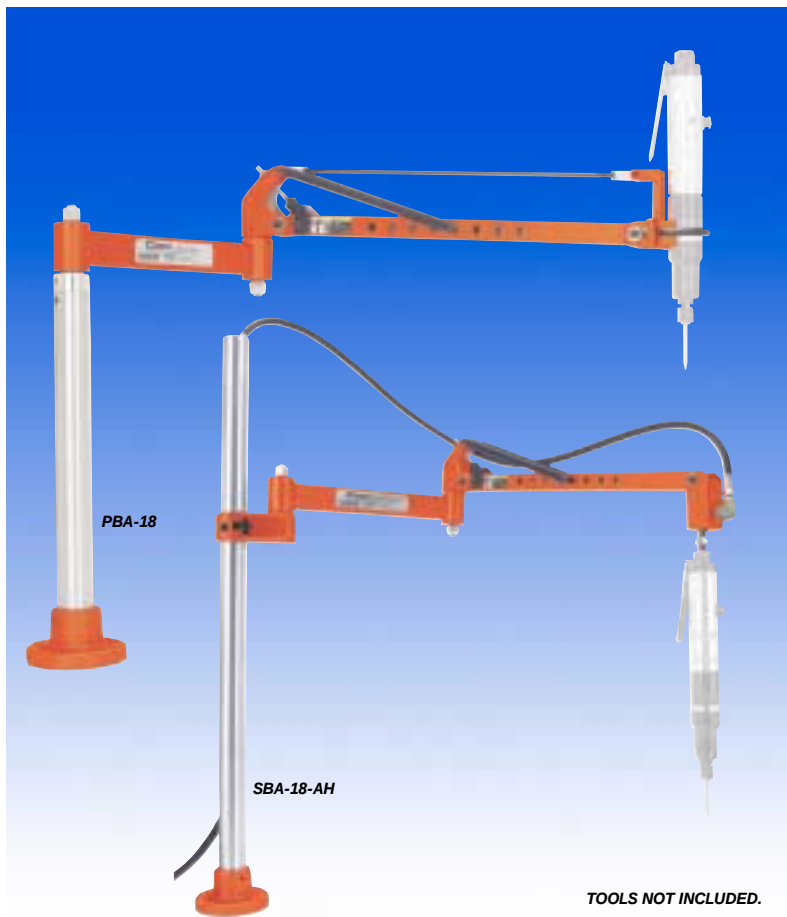
Operating Instructions and Service Manual.
Regulator for Air Cylinders.
Threaded Nipples for CSBA Models
1/4 NPT Hex Nipple: 204032-7
1/4 NPT x 1/8 NPT Hex Reducer
Nipple: 204137-4

OPTIONAL EQUIPMENT

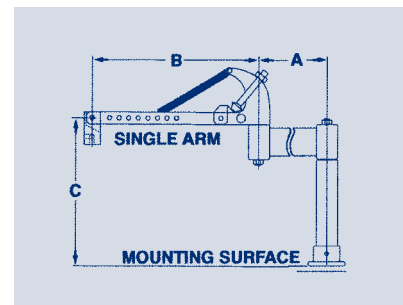
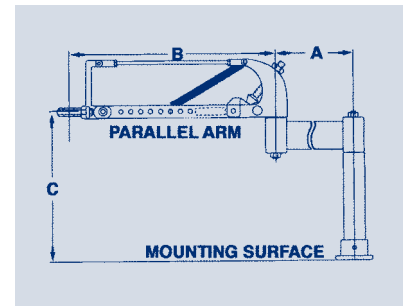
Additional accessories: See page 74.

Cleco®

- Ball bearing construction
- Supports tools weighing up to 5 lbs.
- Post, wall, or adjustable height post mounting
- Single or parallel arms



TOOLS NOT INCLUDED.



Single Arms		Parallel Arms		Dimensions							
Model No.	Code No.	Model No.	Code No.	A		B		C		Post Height	
				in.	mm	in.	mm	in.	mm	in.	mm
SBA-12	520001	PBA-12	520007	12	305	12	305	18	457	-	-
SBA-18	520004	PBA-18	520010	12	305	18	457	18	457	-	-
SBA-24	520040	PBA-24	520045	12	305	24	610	18	457	-	-
SBA-30	520042	PBA-30	520048	12	305	30	762	18	457	-	-
		PBA-18-18	520034	18	457	18	457	18	457	-	-
SBA-12-AH	520003	PBA-12-AH	520009	12	305	12	305	-	-	30	762
SBA-18-AH	520006	PBA-18-AH	520012	12	305	18	457	-	-	30	762
SBA-24-AH	520110	PBA-24-AH	520047	12	305	24	610	-	-	30	762
SBA-30-AH	520044	PBA-30-AH	520050	12	305	30	762	-	-	30	762
		PBA-18-18-AH	520036	18	457	12	305	-	-	30	762
SBA-12-24-AH	520063			24	610	12	305	-	-	30	762
SBA-12-WM	520002	PBA-12-WM	520008	12	305	12	305	-	-	-	-
SBA-18-WM	520005	PBA-18-WM	520011	12	305	18	457	-	-	-	-
SBA-24-WM	520041	PBA-24-WM	520046	12	305	24	610	-	-	-	-
SBA-30-WM	520043	PBA-30-WM	520049	12	305	30	762	-	-	-	-
		PBA-18-18-WM	520035	18	457	18	457	-	-	-	-

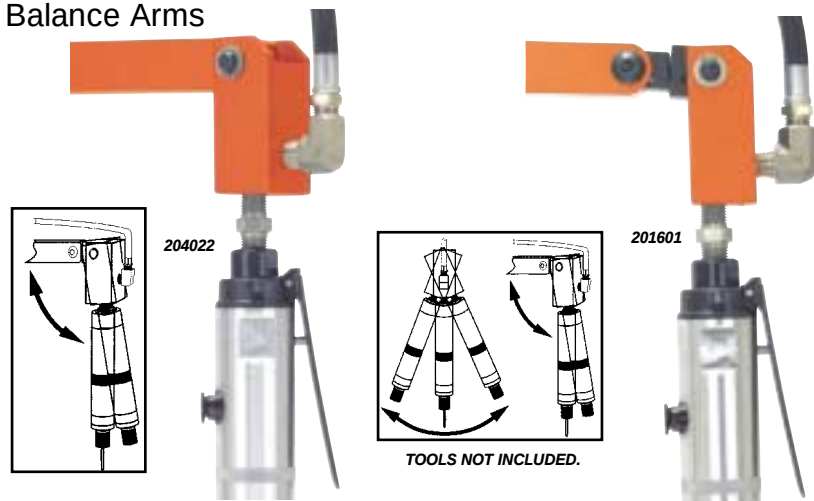
AH = Adjustable Height
WM = Wall Mounted
Tool weight capacity: 5 lbs. (2.3 kg)
Torque capacity: 10 ft. lbs. (13.5 Nm)

STANDARD EQUIPMENT
Operating Instructions and Service Manual.
Threaded Nipples for SBA Models
1/4 NPT Hex Nipple: 204032-7
1/4 NPT x 1/8 NPT Hex Reducer
Nipple: 204137-4

OPTIONAL EQUIPMENT
Additional accessories: See page 74.

Accessories

Balance Arms

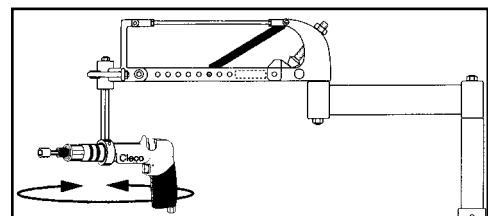


Single Arm Tool Holders

Part No.	Description
204022	Manifold tool holder
201601	Swivel manifold tool holder

Parallel Arm Tool Holders

Part No.	Description
204015	Parallel tool holder
204167	Extended parallel tool holder
201607	Swivel tool holder (small)
201608	Swivel tool holder (large)



Articulating Arm Extensions



Part No.	Length (in.)
204014	12
204122	18
204119	24
204120	30

Conversion Kits for Cleco Balance Arms

To Convert Balance Arms		Part No.
From	To	
SBA-12	PBA-12*	521041
SBA-18	PBA-18*	521042
Spring	Cylinder	201606
SBA or PBA	SBA or PBA	521060
Standard Duty	Heavy Duty**	

* Conversion kits for -24 and -30 models are available upon request.
 ** Has four springs to support heavier tools or longer arms.

General Accessories



Ergonomic Tool Balancers

Capacity:

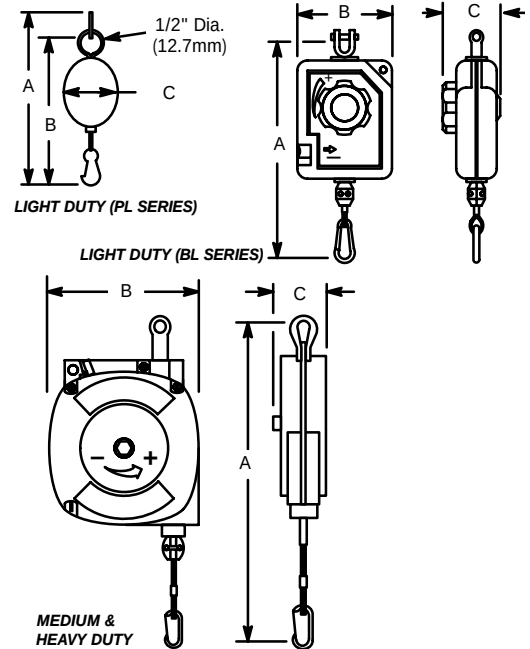
0.5 – 45.5 kg

1.0 – 100 Lbs

External tension Adjustment

360° Swivel

Retracting In-Line Cable



Model Number	Lock Feature	Capacity		“A”		“B”		“C”		Weight	
		lbs.	kg	in	mm	in	mm	in.	mm	lbs.	kg
Light Duty – 4.6 ft. (1.4m) Cable Travel											
PL-12A	–	12.0-1.0	5.5-0.5	6.8	171	5.1	130	2.3	58	–	–
Light Duty – 5.0 ft. (1.5m) Cable Travel											
 200427	–	2.0-0	.9-0	10.9	277	4.4	112	1.6	41	1.3	0.6
 200428	–	4.0-2.0	1.8-.9	10.9	277	4.4	112	1.6	41	1.3	0.6
 200429	–	5.0-3.0	2.3-1.4	10.9	277	4.4	112	1.6	41	1.3	0.6
Light Duty – 5.2 ft. (1.6m) Cable Travel											
BL-2A	–	2.0-1.0	0.9-0.5	10.4	263	4.0	102	2.2	56	1.1	0.5
BL-4A	–	4.0-20	1.8-0.9	10.4	263	4.0	102	2.2	56	1.1	0.5
Light Duty – 6.7 ft. (2.0m) Cable Travel											
BL-6A	–	6.0-4.0	2.7-1.8	12.9	327	5.5	140	3.1	79	3.3	1.5
BLL-6A	Ratchet	6.0-4.0	2.7-1.8	12.9	327	5.5	140	3.1	79	3.3	1.5
BL-8A	–	8.0-6.0	3.6-2.7	12.9	327	5.5	140	3.1	79	3.3	1.5
BLL-8A	Ratchet	8.0-6.0	3.6-2.7	12.9	327	5.5	140	3.1	79	3.3	1.5
Medium Duty – 6.6ft. (2.0m) Cable Travel											
BM-13A	Automatic	13-9.0	5.9-4.1	13.8	350	6.9	175	4.5	114	9.0	4.1
BML-13A	Automatic/Ratchet	13-9.0	5.9-4.1	13.8	350	6.9	175	4.5	114	9.0	4.1
BM-18A	Automatic	18-13	8.2-5.9	13.8	350	6.9	175	4.5	114	9.0	4.1
Medium Duty – 6.0ft. (1.8m) Cable Travel											
BM-25A	Automatic	25-18	11.4-8.2	20.7	527	7.8	197	6.6	169	19	8.6
BM-35A	Automatic	35-25	15.9-11.4	20.7	527	7.8	197	6.6	169	19	8.6
BM-45A	Automatic	45-35	20.5-15.9	20.7	527	7.8	197	6.6	169	19	8.6
Heavy Duty – 7.0ft. (2.1m) Cable Travel											
BH-45A	Automatic	45-30	20.5-13.6	25.2	640	9.3	235	7.9	200	40	18
BH-60B*	Automatic	60-45	27.3-20.5	25.2	640	9.3	235	7.9	200	40	18
BH-70A	Automatic	70-60	31.8-27.3	25.2	640	9.3	235	7.9	200	40	18
BH-80A	Automatic	80-70	36.4-31.8	25.2	640	9.3	235	7.9	200	40	18
BH-90A	Automatic	90-80	40.9-36.4	25.2	640	9.3	235	7.9	200	40	18
BH-100A	Automatic	100-90	45.4-40.9	25.2	640	9.3	235	7.9	200	40	18

*4.9 ft. cable travel

Refer to page 5 for description of Rapid Select.

Cleco®

AS 750 Series

- Governor Controlled
- Cast Iron or Bronze Pump Body
- Semi-Screw Closed Type Impeller



AS750-C

Measured Capacities

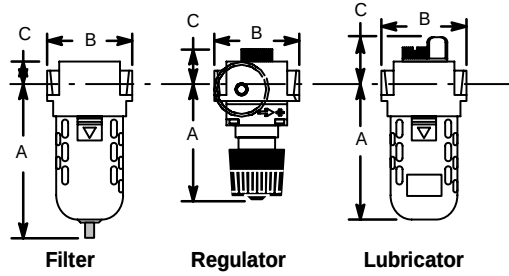
Air at 90 lbs. Gauge Pressure (6.2 bar) Maximum head, 90 feet (27.43m)		
Against 10-ft. head	370 gallons per minute	(1400 L/min.)
Against 20-ft. head	285 gallons per minute	(1079 L/min.)
Against 30-ft. head	208 gallons per minute	(787 L/min.)
Against 40-ft. head	165 gallons per minute	(625 L/min.)
Against 50-ft. head	128 gallons per minute	(484 L/min.)
Against 60-ft. head	94 gallons per minute	(356 L/min.)
Against 70-ft. head	66 gallons per minute	(250 L/min.)

Model Number	Discharge Outlet		Opening Required		Height		Weight	
	in.	mm	in.	mm	in.	mm	in.	mm
AS750 Series - Cast Iron								
AS750-C	2.5	64	10 X 12	254 X 305	17.8	452	65	29
AS750 Series - Bronze								
AS750-B	2.5	64	10 X 12	254 X 305	17.8	452	73	33
GENERAL: Air Inlet: 3/4" NPTF Minimum Hose Size: 3/4" Tool performance rated at 90 psi (620kPa) air pressure.								
CAUTION: Sump pumps are not intended for pumping flammable materials.								
STANDARD EQUIPMENT: Operating instructions & service manual								

WARNING: Face & eye protection must be worn while operating power tools, per ANSI B186.1. Cutting tool maximum speed rating must equal or exceed speed of air tool @ 90psi (620 kPa). Follow cutting tool manufacturer's mounting & operating instructions.

Filters, Regulators, Lubricators

Modular Construction



Model Number	NPT	Air Flow		Bowl Capacity		"A"		"B"		"C"	
	in.	SCFM	m ³ /min	oz.	liter	in.	mm	in.	mm	in.	mm

Filters

F02-M	1/4	35	9.9	5.0	0.15	5.6	142	3.0	76	0.9	23
F03-M	3/8	44	12.9	5.0	0.15	5.6	142	3.0	76	0.9	23
F04-M	1/2	138	39.1	10	0.30	6.4	163	3.4	86	1.0	25

Lubricators – Economist (Standard Mist)

L02-EP	1/4	28	3.7	5.0	0.15	4.8	122	3.0	76	1.6	41
L03-EP	3/8	48	6.2	5.0	0.15	4.8	122	3.0	76	1.6	41
L04-EP	1/2	102	13.6	10	0.30	5.4	137	3.4	86	1.6	41

Lubricators – Atomist (Fine Mist)

L02-AP	1/4	28	3.7	5.0	0.15	4.8	122	3.0	76	1.6	41
L03-AP	3/8	48	6.2	5.0	0.15	4.8	122	3.0	76	1.6	41
L04-AP	1/2	102	13.6	10	0.30	5.4	137	3.4	86	1.6	41

Model Number	NPT	Air Flow		Maximum Pressure		"A"		"B"		"C"	
	in.	SCFM	m ³ /min	psig	bar	in.	mm	in.	mm	in.	mm

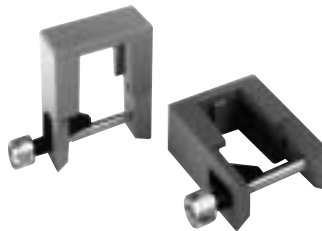
Regulators

R02-G	1/4	80	10.8	125	8.5	3.9	99	3.0	76	1.3	33
R03-G	3/8	80	10.8	125	8.5	3.9	99	3.0	76	1.3	33
R04-G	1/2	195	26.1	125	8.5	5.6	142	3.4	86	1.4	36

Modular Sleeve (with O-Ring)

Model: MS101

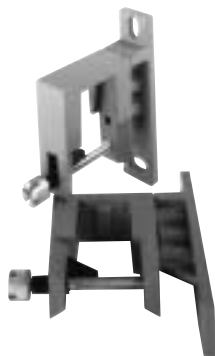
Unique modular sleeve design easily and quickly connects one or more units and accessories together without pipe nipples. Hand tightening the threaded pin provides a tight seal between the units. Modular sleeves do not add length to combination assemblies, and make a more compact installation.



Modular Sleeve & Bracket (with O-Ring)

Model: MS102

Combination sleeve/wall mounting bracket as shown. Designed for mounting a single unit or combination of units directly to the wall. The sleeve and mounting bracket can be ordered assembled at the factory, or just the mounting bracket alone to be used on existing modular sleeves.



Modular End Blocks (sold in pairs)

Models: EB-102 (1/4"); EB-103 (3/8");
EB-104 (1/2"); EB-106 (3/4")

The threaded End Blocks, together with the modular sleeve, allow a single unit or a combination of units to be piped into the air system in the modular mode. This feature allows ease of unit servicing or replacement without disturbing the airline connections. End blocks add 1.19" (30 mm) to each end of the unit where used.

NOTE: The 3/4" end blocks are designed only to adapt to 3/4" piping systems and do not increase flow ratings listed for any unit.



Automatic Drain

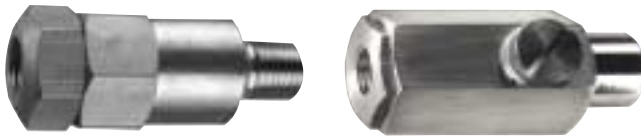
Model: AD-101

Automatic Mechanical Drain is a float-type mechanism with a 1/8" NPT threaded drain port completely enclosed in the filter bowl. The float is constructed of rigid cellular rubber. The drain will operate automatically under air pressure ranging from 20 to 175 psig (1.5 to 12 bar).



General Accessories

Airline Filter and Lubricator



Part Number	Description	NPT	Air Flow		Max. Pressure	
		in.	SCFM	m³/min	psig	bar
45-211	Filter w/cartridge*	1/4	17	8.0	100	6.9
45-0212	Filter cartridge	—	—	—	—	—
45-0201	Lubricator**	1/4	22	10	100	6.9
45-0301	Lubricator**	3/8	22	10	100	6.9

GENERAL: Use where inconvenient for standard filter or lubricator.

* NOTE: Filter will not remove water.

** NOTE: One ounce reservoir good for an average eight hour shift.

Air Hoses



Part Number	Hose I.D.		Fittings (NPT)		Length	
	in.	mm	in.	mm	ft.	m
A110026	3/16	4.7	1/8	3/8-24*	6.0	1.8
A139856	3/16	4.7	1/8	1/8	6.0	1.8
45-1307	3/16	4.7	1/8	1/4	7.0	2.1
45-1408	1/4	6.4	1/4	1/4	8.0	2.4
45-1409	1/4	6.4	1/8	1/4	8.0	2.4
45-1508	5/16	7.9	1/4	1/4	8.0	2.4
45-1610	3/8	9.5	3/8	3/8	10	3.0
45-1620	3/8	9.5	3/8	3/8	20	6.1
45-1630	3/8	9.5	3/8	3/8	30	9.1
45-1810	1/2	12.7	3/8	1/2	10	3.0
45-1812	1/2	12.7	1/2	1/2	12	3.7
45-1825	1/2	12.7	1/2	1/2	25	7.6
45-1850	1/2	12.7	1/2	1/2	50	15.2

GENERAL: 3/16" & 1/4" hoses have braided covers, all others have neoprene covers.

* NOTE: 3/8"-24 is a straight thread

Steel Handle Bushings

Part Number	Size
881276	*1/4 in. MPT x 1/4 in. FPT
841554	†1/4 in. MPT x 1/4 in. FPT
841553	3/8 in. MPT x 1/4 in. FPT
841552	3/8 in. MPT x 3/8 in. FPT
841551	1/2 in. MPT x 3/8 in. FPT
841555	1/2 in. MPT x 1/2 in. FPT
841556	3/4 in. MPT x 3/4 in. FPT

* Light duty for rotary tools

† Heavy duty for percussion tools.

Swivel Hose Couplings

Part Number	NPT in.
A20744	1/4
A20741	3/8
A20764	1/2



Air Pressure Gage Kit

Part Number	Description
A13157	Gage, needle, cap & case
13158	Hypodermic needle (1)



Quick Disconnect Fittings

Fitting Type*	NPT in.	Nominal Size		
		1/4"	3/8"	1/2"

Coupler (male NPT)

1/8	45-0710	—	—
1/4	45-0711	45-0713	—
3/8	45-0712	45-0714	45-0716
1/2	—	45-0715	45-0717

Coupler (female NPT)

1/8	45-0730	—	—
1/4	45-0731	45-0733	—
3/8	45-0732	45-0734	45-0736
1/2	—	45-0735	45-0737

Nipple (male NPT)

1/8	45-0720	45-0723	—
1/4	45-0721	45-0724	—
3/8	45-0722	45-0725	45-0726
1/2	—	—	45-0727

Nipple (female NPT)

1/8	45-0740	—	—
1/4	45-0741	45-0744	—
3/8	45-0742	45-0745	45-0746
1/2	—	—	45-0747

Nipple (with hose barbs)

1/4**	45-0748	45-0750	—
3/8**	45-0749	45-0751	45-0752
1/2**	—	—	45-0753

* NOTE: Nipples of one size will not fit couplers of another size.

** NOTE: Indicates inside diameter of hose.

NOTE: 1/4" nominal will pass 49 cfm free air @ 90 psi, but pressure drop exceeds 10 psi with air flow over 30 cfm.

3/8" nominal will pass 90 cfm free air @ 90 psi, but pressure drop exceeds 10 psi with air flow over 53 cfm.

1/2" nominal will pass 168 cfm free air @ 90 psi, but pressure drop exceeds 10 psi with air flow over 109 cfm.

Activewivel

Part No.	NPT in.	Air Flow		Max. Pressure		Weight	
		SCFM	m³/min	psig	bar	lbs.	kg
SW-102	1/4	25	7.1	150	10.4	0.20	0.09
SW-103	3/8	45	12.7	150	10.4	0.40	0.18
SW-104	1/2	65	18.4	150	10.4	0.80	0.36
SWR-102*	1/4	25	7.1	150	10.4	0.25	0.11

* NOTE: Equipped with built-in flow regulator..



Lubricants

Part Number	Size	Description	M.S.D.S. No.
Oils			
540397	1 qt. plastic	Air line oil	CPT-153
533485	1 gal. metal	Air line oil	CPT-153
536333	1 gal. metal	High film strength	CPT-154
45-0918	1 qt. plastic	Air line oil	CPT-155
45-0919	1 gal. metal	Air line oil	CPT-155

Greases

513156	18 oz. can	Teflon grease	CPT-145
540395	2 oz. tube	Teflon grease	CPT-145

NOTE: Under normal conditions of use, lubrication products sold separately for or used within these tools should not cause an exposure hazard. Refer to the Material Safety Data Sheet (M.S.D.S.) for Safety and Disposal Information. M.S.D.S. sheets shown in the chart are available upon request from Cooper Power Tools.

Push Type Grease Gun

Part Number: 45-1982



Service Tools

Part Number	Description
-------------	-------------

"T" Wrenches

Used to remove and replace hex socket screws in tool housings

10021201	5/32" Hex socket screws
1021202	3/16" Hex socket screws

Hex Key Wrenches

1008860	1/8"
1004341	5/31"
1006443	3/16"



Torx Torque Adjustment

Keys

536633	H10 series tools
535508	H16/H30 series tools

Open End Wrenches

1006626	3/16" & 5/16"
1011691	7/16"
1014471	1/2"
1004958	9/16" & 1 33/64" Hex Box
1009950	19/32" & 1 7/16" Hex Box
1014472	11/16"
1010911	7/8"
1010929	1"
1016694	1 1/8"
1008163	2 7/32"

Snap Ring Pliers

1008360	External sizes 18 thru 23
1007488	External sizes 25 thru 87
1008702	External sizes 37 thru 93
1007487	External sizes 106 thru 175



Line Oilers



Part No.	Capacity	Size	Pipe Size	Weight	PSIG	*F
850305	1/4 oz.		1/4 in.	4 oz.	250	200
850151	1/6 pt.	0	1/2 in.	1 lb.	500	200
850152	1/3 pt.	1	3/4 in.	1 lb.	260	200
850153	2/3 pt.	2	3/4 in.	2 lbs.	300	200
850154	1 pt.	3	1 in.	4 lbs.	250	200

Pressure-Seated Air Valves



Available in Sizes:	Standard (or Lock-On)	Lock-Off
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A-90 Valve: One direction only.

1/2 in. Inlet – 1/4 in. Outlet	850007	–
1/2 in. Inlet – 3/8 in. Outlet	850008	850954
3/4 in. Inlet – 1/2 in. Outlet	850009	850955
1 in. Inlet – 3/4 in. Outlet	850010	850955

A-30 Valve: One direction only.

1/2 in. Inlet – 3/8 in. Outlet	850142	–
3/4 in. Inlet – 1/2 in. Outlet	850013	–
1 in. Inlet – 3/4 in. Outlet	850012	850950



Available in Sizes:	Standard (or Lock-Off)	Lock-On
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S Valve: One direction only. Inlet and Outlet same size.

1/4 in. Inlet – 1/4 in. Outlet	850002	850958
3/8 in. Inlet – 3/8 in. Outlet	850003	850959
1/2 in. Inlet – 1/2 in. Outlet	850004	850960
3/4 in. Inlet – 3/4 in. Outlet	850005	850961
1 in. Inlet – 1 in. Outlet	850006	850962

P Valve: One direction only. Does not have locking lug.

1/2 in. Inlet – 3/8 in. Outlet	850141
3/4 in. Inlet – 1/2 in. Outlet	850000
1 in. Inlet – 3/4 in. Outlet	850001

Tool Maintenance and Repair Kit



Order No.	Description	For Use With
889451	Bearing Driver	"F" or "RA-5" anglehead
889452	Bearing Driver	"K" or "RA-10" anglehead
889453	Bearing Driver	"M" or "RA-12" anglehead for 45/55 nutrunners
889454	Bearing Driver	"P" anglehead for 40 nutrunner
889455	Bearing Driver	"P" anglehead for 45/55 nutrunners
889456	Bearing Driver	"T" or "RA-13" anglehead
889457	Bearing Driver	"V" or "RA-18" anglehead
889458	Bearing Driver	"X" or "RA-20" anglehead
889459	Bearing Cap Tool	"M" or "RA-12" anglehead
889460	Bearing Cap Tool	"K" or "RA-10" anglehead
889462	Bearing Retainer Tool	"M" or "RA-12" anglehead
889463	Bearing Retainer Tool	"V", "RA-18", "X", "RA-20" anglehead
889461	Holding Fixture	5, 8, 88, 9, 35, & 40 screwdrivers & nutrunners
204569	Adjustable Wrench	gear cases
204566	Offset Adj. Wrench	gear cases
204567	1 7/16" O.E. Wrench	gear cases
204568	Hook Spanner Wrench	large clutch housing
203804	Hook Spanner Wrench	small clutch housing
203803	Gear Case Wrench	5 series gear cases
204564	T-Bar	all bearing cap & bearing ret. tools
204570	Tool Case	Carrying case for kit
201757	Assembly Tool Repair Kit	All above included

Conversion Table

Millimeter – Decimal – Fraction

mm	Dec.	in.	mm	Dec.	in.	mm	Dec.	in.	mm	Dec.	in.	mm	Dec.	in.m
0.100	.0039		5.159	.2031	13/64	10.200	.4016		15.300	.6024		20.300	.7992	
0.200	.0079		5.200	.2047		10.300	.4055		15.400	.6063		20.400	.8031	
0.300	.0118		5.300	.2087		10.319	.4063	13/32	15.478	.6094	39/64	20.500	.8071	
0.397	.0156	1/64	5.400	.2126		10.400	.4094		15.500	.6102		20.600	.8110	
0.400	.0157		5.500	.2165		10.500	.4134		15.600	.6142		20.638	.8125	13/16
0.500	.0197		5.556	.2188	7/32	10.600	.4173		15.700	.6181		20.700	.8150	
0.600	.0236		5.600	.2205		10.700	.4219		15.800	.6220		20.800	.8189	
0.700	.0276		5.700	.2244		10.716	.4219	27/64	15.875	.6250	5/8	20.900	.8228	
0.794	.0313	1/32	5.800	.2283		10.800	.4252		15.900	.6250		21.000	.8268	
0.800	.0315		5.900	.2323		10.900	.4291		16.000	.6299		21.034	.8182	53/64
0.900	.0354		5.953	.2344	15/64	11.000	.4331		16.100	.6339		21.100	.8307	
1.000	.0394		6.000	.2362		11.100	.4370		16.200	.6378		21.200	.8307	
1.100	.0433		6.100	.2402		11.113	.4375	7/16	16.272	.6406	41/64	21.200	.8346	
1.191	.0469	3/64	6.200	.2441		11.200	.4409		16.300	.6417		21.300	.8386	
1.200	.0472		6.300	.2480		11.300	.4449		16.400	.6457		21.400	.8425	
1.300	.0512		6.350	.2500	1/4	11.400	.4488		16.500	.6496		21.431	.8438	27/32
1.400	.0551		6.400	.2520		11.500	.4528		16.600	.6535		21.500	.8465	
1.500	.0591		6.500	.2559		11.509	.4531	29/64	16.669	.6563	21/32	21.600	.8504	
1.588	.0625	1/16	6.600	.2598		11.600	.4567		16.700	.6575		21.700	.8543	
1.600	.0630		6.700	.2638		11.700	.4606		16.800	.6614		21.800	.8583	
1.700	.0669		6.747	.2656	17/64	11.800	.4646		16.900	.6654		21.828	.8594	55/94
1.800	.0709		6.800	.2677		11.900	.4685		17.000	.6693		21.900	.8622	
1.900	.0748		6.900	.2717		11.906	.4688	15/32	17.066	.6719	43/64	22.000	.8661	
1.984	.0781	5/64	7.000	.2756		12.000	.4724		17.100	.6732		22.100	.8701	
2.000	.0878		7.100	.2795		12.100	.4764		17.200	.6772		22.200	.8740	
2.100	.0827		7.144	.2813	9/32	12.200	.4803		17.300	.6811		22.225	.8750	7/8
2.200	.0866		7.200	.2835		12.300	.4843		17.400	.6850		22.300	.8780	
2.300	.0906		7.300	.2874		12.303	.4844	31/64	17.463	.6875	11/16	22.400	.8819	
2.381	.0938	3/32	7.400	.2913		12.400	.4882		17.500	.6890		22.500	.8858	
2.400	.0945		7.500	.2953		12.500	.4921		17.600	.6929		22.600	.8898	
2.500	.0984		7.541	.2969	19/64	12.600	.4961		17.700	.6968		22.622	.8906	57/64
2.600	.1024		7.600	.2992		12.700	.5000	1/2	17.800	.7008		22.700	.8937	
2.700	.1063		7.700	.3031		12.800	.5039		17.859	.7031	45/64	22.800	.8976	
2.778	.1094	7/64	7.800	.3071		12.900	.5079		17.900	.7047		22.900	.9016	
2.800	.1102		7.900	.3110		13.000	.5118		18.000	.7087		23.000	.9055	
2.900	.1142		7.938	.3125	5/16	13.097	.5156	33/64	18.100	.7126		23.019	.9063	29/32
3.000	.1181		8.000	.3150		13.100	.5157		18.200	.7165		23.100	.9094	
3.100	.1220		8.100	.3189		13.200	.5197		18.256	.7188	23/32	23.200	.9134	
3.175	.1250	1/8	8.200	.3228		13.300	.5236		18.300	.7205		23.300	.9173	
3.200	.1260		8.300	.3268		13.400	.5276		18.400	.7244		23.400	.9213	
3.300	.1299		8.334	.3281	21/64	13.494	.5313	17/32	18.500	.7283		23.416	.9219	59/64
3.400	.1339		8.400	.3307		13.500	.5315		18.600	.7323		23.500	.9252	
3.500	.1378		8.500	.3346		13.600	.5354		18.653	.7344	47/64	23.600	.9291	
3.572	.1406	9/64	8.600	.3386		13.700	.5394		18.700	.7362		23.700	.9331	
3.600	.1417		8.700	.3425		13.800	.5433		18.800	.7402		23.800	.9370	
3.700	.1457		8.731	.3438	11/32	13.891	.5469	35/64	18.900	.7441		23.900	.9409	
3.800	.1496		8.800	.3465		13.900	.5472		19.000	.7480		24.000	.9449	
3.900	.1535		8.900	.3504		14.000	.5512		19.050	.7500	3/4	24.100	.9488	
3.969	.1563	5/32	9.000	.3543		14.100	.5551		19.100	.7520		24.200	.9528	
4.000	.1575		9.100	.3583		14.200	.5591		19.200	.7559		24.209	.9531	61/64
4.100	.1624		9.128	.3594	23/64	14.288	.5625	9/16	19.300	.7598		24.300	.9567	
4.200	.1654		9.200	.3622		14.300	.5630		19.400	.7638		24.400	.9606	
4.300	.1693		9.300	.3661		14.400	.5669		19.447	.7656	49/64	24.500	.9646	
4.366	.1719	11/64	9.400	.3701		14.500	.5709		19.500	.7677		24.600	.9685	
4.400	.732		9.500	.3740		14.600	.5748		19.600	.7717		24.606	.9688	31/32
4.500	.1772		9.525	.3750	3/8	14.684	.5781	37/64	19.700	.7756		24.700	.9724	
4.600	.1811		9.600	.3780		14.700	.5787		19.800	.7795		24.800	.9764	
4.700	.1850		9.700	.3819		14.800	.5827		19.844	.7813	25/32	24.900	.9803	
4.763	.1875	3/16	9.800	.3858		14.900	.5866		19.900	.7835		25.000	.9843	
4.800	.1890		9.900	.3898		15.000	.5906		20.000	.7874		25.003	.9844	63/64
4.900	.1929		9.922	.3902	25/64	15.081	.5938	19/32	20.100	.7913		25.100	.9882	
5.000	.1969		10.000	.3937		15.100	.5945		20.200	.7953		25.200	.9921	
5.100	.2008		10.100	.3976		15.200	.5984		20.241	.7969	51/64	25.300	.9961	
												25.400	1.000	1

Conversion Table

Torque – Air Pressure – Miscellaneous

TORQUE CONVERSION – IN. LBS. (NM)					
In.	Nm	In.	Nm	In.	Nm
5	0.6	50	5.7	140	15.8
10	1.1	60	6.8	150	17.0
15	1.7	70	7.9	160	18.1
20	2.3	80	9.0	170	19.2
25	2.8	90	10.2	180	20.3
30	3.4	100	11.3	190	21.5
35	4.0	110	12.4	200	22.6
40	4.5	120	13.6		
45	5.1	130	14.7		

TORQUE CONVERSION FACTORS		
To Convert	Into	Multiply By
Inch Pounds	Foot Pounds	0.0835
Inch Pounds	Newton meters	0.1130
Inch Pounds	Kg-meters	0.0115
Inch Pounds	Kg-Cm	1.1519
Foot Pounds	Inch Pounds	12.000
Foot Pounds	Newton meters	1.3560
Foot Pounds	Kg-meters	0.1382
Foot Pounds	Kg-Cm	13.8240
Newton Meters	Inch Pounds	8.8440
Newton Meters	Foot Pounds	0.7370
Newton Meters	Kg-meters	0.1020
Newton Meters	Kg-Cm	10.2000
Kg meters	Inch Pounds	86.8100
Kg meters	Foot Pounds	7.2340
Kg meters	Newton-meters	9.8040
Kg Cm	Inch Pounds	0.8681
Kg Cm	Foot Pounds	0.0723
Kg Cm	Newton-meters	0.0980

Suggested Surface Speeds for High Speed Steel Drills*

MATERIAL	S.F.M.
Alloy Steels – 300 to 4000 Brinell	20-30
Stainless Steels – Medium range	30-40
Automotive Steel Forgings and the like	40-50
Tool Steels Annealed – 90 to 1.20 Carbon	50-60
Steels – .40 to .50 Carbon	70-80
Steels – .20 to .30 Carbon (Machinery Steel)	80-110
Hard, Chilled Cast Iron	30-40
Medium Hard Cast Iron	70-110
Soft Cast Iron	100-150
Malleable Iron	80-90
Monel Metal	40-50
High Tensile Strength Bronze	70-150
Ordinary Brass and Bronze	200-300
Aluminum and its Common Alloys	250-400
Magnesium and its Common Alloys	250-400
Plastics – Common Types	100-150
Wood	300-400

* Carbon Steel Drills should be operated at 40%–50% of the above speeds.
 These speeds indicate the approximate range under normal conditions. For peak performance on individual jobs, adjustments may be required.
 To convert surface feet per minute (SFM) into revolutions per minutes (RPM) use the following formula:

$$\text{RPM} = \frac{\text{SFM} \times 3.82}{\text{Diameter}}$$

Example: To drill 1/4" hole in aluminum:

$$\frac{300 \times 3.82}{.250} = 4.584 \text{ RPM}$$

Recommended Tool: Cleco 111 DO-50B

MISCELLANEOUS CONVERSION FACTORS		
To Convert	Into	Multiply By
Inches	Millimeters	25.4000
Millimeters	Inches	0.0394
Pounds	Kilograms	0.4536
Kilograms	Pounds	2.2050
psi	bar	0.069
bar	psi	14.5

AIR PRESSURE CONVERSION		
PSI	kPa*	Bar**
85	586	5.9
90	620	6.2
95	655	6.6
100	690	6.9
125	860	8.6

* Preferred: Approximate to the nearest 5 kPa.

** Approximate to the nearest 0.5 Bar.

Drill Diameter (inches)	Surface Speed, Feet per Minute											
	30	40	50	60	70	80	90	100	110	200	300	400

Spindle Speeds, RPM

1/4	458	611	764	917	106=70	1222	1375	1528	1681	3056	4584	6111
5/16	367	489	611	733	856	976	1100	1222	1345	2445	3666	4888
3/8	306	407	509	611	713	815	917	1019	1120	2037	3056	4074
7/16	262	349	437	524	611	698	786	873	960	1746	2619	3492
1/2	229	306	382	458	535	611	688	764	840	1528	2282	3056

If there is a choice between tools of about the same speed but of different sizes, final selection is made by preference for a lighter-weight tool or one with more power to maintain speed under load.

TRAINING

Our Commitment To Your Success

Our complete line of tools are carefully designed and built from the finest materials available in order to provide years of trouble free service. But, as with any piece of equipment, service problems can occur. All tools are designed to be easy to service...that is, of course, if you know what you're doing.

To facilitate quick repairs, and limit downtime...CooperTools conducts training seminars covering all aspects of every tool we make.

Introductory training seminars are designed to fully acquaint students with the entire line of tools and their fundamental operation. The emphasis is on thoroughly understanding each tool...its features, uses, and the best way to demonstrate the tool to a potential buyer.

Advanced training seminars, which are often tailored to individual needs, are designed to hone the skills of the experienced student. Hands-on experience, with an emphasis on troubleshooting and repairing, are the focus of this training.

For additional information on our training seminars, please call your local CooperTools Distributor.





Factory Certified Tool Service

You can depend on Factory Certified Service Centers to provide the service your tools need.

CooperTools has strategically located Certified Service Centers throughout the U.S. These Centers are staffed with professional Tool Repair Technicians who provide complete and comprehensive repairs for **all** air tools, regardless of manufacture. And to be sure all repairs are done right the first time, the latest in testing equipment and inspection instruments are used.

Each tool repaired in one of the Factory Certified Service Centers is calibrated and tested to new tool standards, and carries the New Tool Warranty of Performance.

Free Repair Estimates

The cost to repair your air tool is provided before any work is started. We think you should know in advance what to expect. Naturally, the repair estimates are free... with no obligation.



Tool Inspection Service

Representatives from the Certified Service Center can help you improve your air tool utilization by providing a free, no-obligation survey of your present tooling. By identifying air tools in your plant that are worn and inefficient, the Factory Trained Servicemen can recommend appropriate repairs to help you reduce costly down-time and improve your man-hour productivity.



New Tool Warranty

Because every Certified Service Center has all equipment necessary to repair and calibrate your tools, each tool that leaves our centers has a New Tool Warranty. You have our assurance that this tool will perform just like it did when it was new.

Sales & Service Centers

NOTE: All locations may not service all products. Please contact the nearest Sales & Service Center for the appropriate facility to handle your service requirements.

ATLANTA

CooperTools
Sales & Service Center
5600 Oakbrook Pkwy., Suite 140
Norcross, GA 30093
Tel: (770) 446-0368
Fax: (770) 446-9360

DALLAS

CooperTools
Sales & Service Center
1470 Post & Paddock
Grand Prairie, TX 75050
Tel: (972) 641-9563
Fax: (972) 641-9674

DETROIT

CooperTools
Sales & Service Center
4121 North Atlantic Blvd.
Auburn Hills, MI 48326
Tel: (248) 391-3700
Fax: (248) 391-6295

HOUSTON

CooperTools
Sales & Service Center
7007 Pinemont
Houston, TX 77040
Tel: (713) 460-7041
Fax: (713) 462-0482

LEXINGTON

CooperTools
670 Industrial Drive
Lexington, SC 29072
Tel: (800) 845-5629
Tel: (803) 359-1200
Fax: (803) 359-0822

LOS ANGELES

CooperTools
Sales & Service Center
2000 S. Santa Cruz Street
Anaheim, CA 92805-6816
Tel: (714) 712-5800
Fax: (714) 712-5801

NEW JERSEY

CooperTools
Sales & Service Center
20 Chapin Road, Suite 1011
P.O. Box 650
Pine Brook, NJ 07058
Tel: (973) 808-5071
Fax: (973) 808-5074

SPRINGFIELD

CooperTools
Airetool Operation
(Airetool products only)
302 South Center Street
Springfield, OH 45506
Tel: (937) 323-4981
Tel: (877) 739-7263
Fax: (937) 323-6524

TULSA

CooperTools
Sales & Service Center
5415 S. 125th East Avenue
Suite 202
Tulsa, OK 74146
Tel: (918) 250-9040
Fax: (918) 252-5931

BRAZIL

Cooper Tools Industrial Ltda.
Av. Liberdade, 4055
Zona Industrial - Iporanga
18087-170 Sorocaba, SP Brazil
Tel: (011) 55 15 238 3929
Fax: (011) 55 15 228 3260

CANADA

CooperTools
Sales & Service Center
6581 Kitimat Road Unit #10
Mississauga, Ont. L5N 3T5
Canada
Tel: (905) 826-3000
Fax: (905) 826-9443

FRANCE

CooperTools
Recoules Operation
Zone Industrielle
BP 28
Avenue Maurice Chevalier
77831 Ozoir-la-Ferrière Cedex
France
Tel: 011 33 1 4 43 22 00
Fax: 011 33 1 60 18 55 01

GERMANY

Cooper Power Tools
GmbH & Co.
Postfach 30
D-73461 Westhausen
Tel: +49 (0) 73 63-8 10
Fax: +49 (0) 73 63-8 12 22

MEXICO

Cooper Power Tools
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Ave. San Andrés Atoto No. 165A
Col. San Esteban
Naucalpan, Edo. de México C.P.
53550
Tel: (011) 525 576-7955
Fax: (011) 525 576-0096

CooperTools Is On The Web!

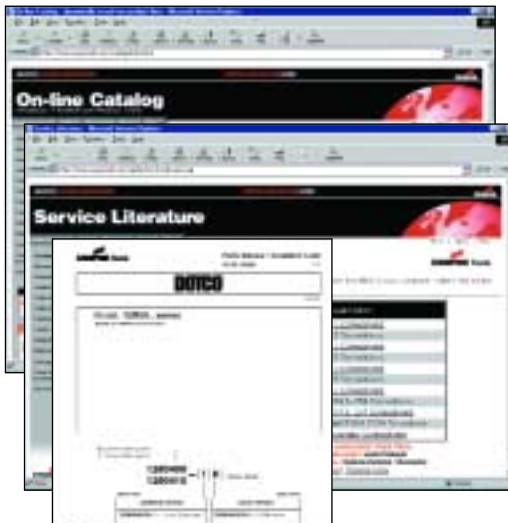
CooperTools is pleased to unveil a complete resource for power tools on-line. **www.coopertools.com** offers product information, service literature, brand catalogs, press releases and more. A dominant source of information, the CooperTools' web site is your source for application solutions on-line.



Making your job easier is our goal!

You can access service literature anytime. Choose a category such as Assembly Tools or Material Removal Tools from the main menu and then click on the brand you're looking for. You'll be on your way to any current service literature you need, whether it's Buckeye, Cleco, Dotco or any of our power tools' brands.

Up-to-date product catalogs are also available online providing you with current information on our broad product line. Even Material Safety Data Sheets (M.S.D.S.) for Safety and Disposal Information are available on our website.



It's simple!

Our *Customer Service* section provides you with information such as answers to frequently asked questions or contact phone numbers and addresses for your area of the country. You can learn more about CooperTools in the *About Us* section or browse through the *What's New* information to learn how CooperTools continues to be your source for solutions.



For even faster searches, you can go direct to a brand site by simply entering the brand name.

Entering

www.buckeye-tools.com, **www.clecotools.com** or **www.dotco-tools.com** takes you directly to the brand site.



What is the future of **www.coopertools.com**? A dynamic site continuing to focus on your need for up-to-date information on the latest CooperTools' offerings that you can access anytime you need...twenty-four hours a day, seven days a week!

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