MASTERFIX®

Blind Rivet Catalogue

In spite of the constant care and attention to ensure the accuracy of the information on this catalogue, Masterfix assumes no responsibility therefore.

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Notes

Masterfix – One-stop shopping for the blind riveting distributor market

Masterfix Products is one of Europe's main blind riveting technique professionals. We owe our excellent reputation to our successful distribution of the broadest range of blind rivets, blind rivet nuts and bolts in the business, and by offering extremely competitive prices and a reliable and continuous stock supply. The same goes for our line of accompanying hand- and power tools.

Our success is a result of more than 25 years of experience in the industry and by focusing on supplying our product range solely through the distributor market for blind fasteners and accompanying tools. In doing so we have become the leading name used in the field of service & repair and small-to-medium sized industry.

Over 20 years ago we already ventured into relations with a reliable co-partner in the Far East, which resulted into a joint venture operation. Because of this we are able to have a leading role in the product range, the technique and quality delivered, and can do this in a very cost efficient way.

Sales & Marketing

The Masterfix Group is spread out through Europe with branches in Spain, Poland, The United Kingdom and a head office in the Netherlands.

Our international sales teams are in close contact with our partners as well as each other. This enables us to continuously monitor and evaluate the field to make sure we stay in touch with the industry and on top of the market. In doing so we provide our clients with a well balanced and useful program, adjusted to market needs and ready to adapt to future developments.

The international Masterfix customer service centres are staffed by thoroughly trained multi-lingual professionals as are our regional service and repair centres, representing Masterfix throughout Europe and beyond.

We frequently welcome technical and commercial representatives of our partners in our International Training Center. Here they learn hands-on about the techniques of blind riveting with practical examples that show our products' extensive range of possible applications.

Masterfix

We have modern, well stocked warehouses at our disposal at all International Masterfix locations. We therefore are able to guarantee a reliable and continuous product supply to our clients.

Research & Development

Having our own R & D department enables us to translate partners wishes as well as market demands into applicable and useful new products. The introduction of the closed end rivet into the European market as early as 1985, was one of Masterfix' first innovations. The introduction of the EZM 12 hand tool with transmission of power being one of the latest. We continuously work on providing our clients with a reliable and affordable line of rivets and rivet nuts and an advanced and practical line of hand and power tools.

www.masterfix.com

On our website you find information about our operations in 6 different languages, as well technical information on all our products. Here we also keep our partners up to date on technical as well as practical developments, trade show participation of all our international offices, as well as company and industry news. You can simply order a pricelist by filling out the request form on our website.

Masterfix

MASTERFIX®

Contents

DH	dome head
LH	large head
ELH	extra large head
CSH	countersunk head
CH	cylindrical head
RCSH	reduced countersunk head

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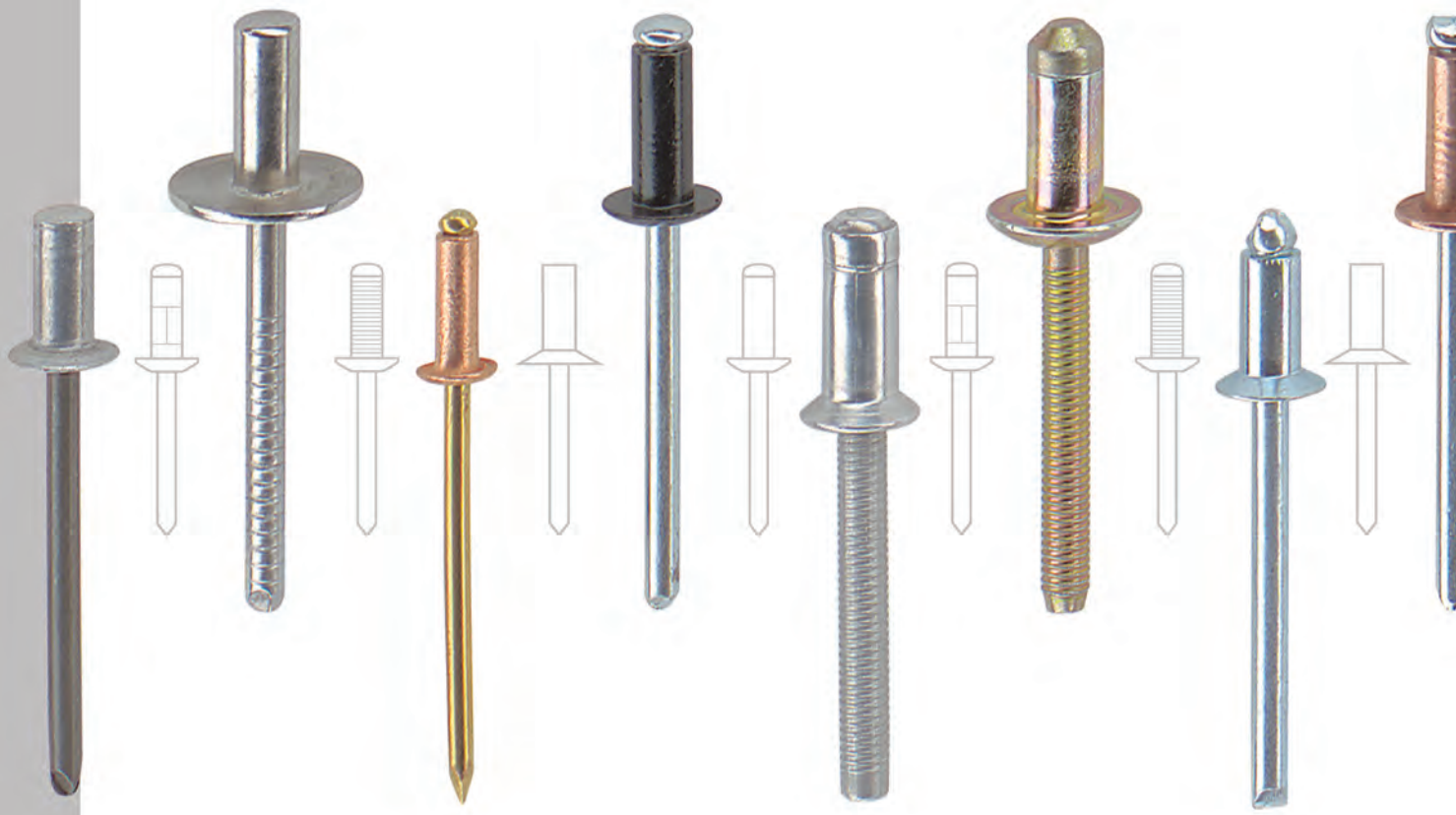
Blind Rivet Nut catalogue download or request hard copy at www.masterfix.com



Blind rivets

MASTERFIX®

Blind rivets

The time and costs saving technology of blind riveting is simple. The materials to be riveted only have to be reached from one side, which explains the term "blind" riveting.
The rivet is made of two parts namely, the body and the mandrel. The body is deformed when the rivet is set and it is this part which clamps the materials together. The function of the mandrel is to deform the body of the rivet. The mandrel is therefore always stronger than the body. The mandrel breaks off at its specific breaking point. This breaking point ensures that the mandrel breaks off at the right moment so that the body is correctly deformed, and the materials are clamped together in a correct way.

PLIA, a first class job turned out every time

Perhaps this is the best way to describe the Masterfix PLIA range of blind rivets. Masterfix PLIA rivets is a wide range of Multigrip rivets, offering substantial technical advantages over standard blind rivets, because of its special construction. This technique which was originally developed for the industry has been implemented in our standard PLIA range, which also includes a steel PLIA and a stainless steel PLIA with grooved mandrel for extra grip on the jaws.

What makes PLIA different from ordinary standard rivets?
A large bulb is formed at the back, spreading the clamping load over a wide area
After setting, the mandrel is retained in the rivet which makes it vibration resistant
A hole filling property, so the size of the predrilled hole is less critical
Large clamping capacity, so a significant reduction of stock can be achieved

PLIA is available with the following head shapes:	materials:
Dome head	Aluminium/Steel
Large flange	Aluminium/Stainless steel
Extra large head	Steel/Steel
Countersunk head	Stainless steel/Stainless steel

Applications

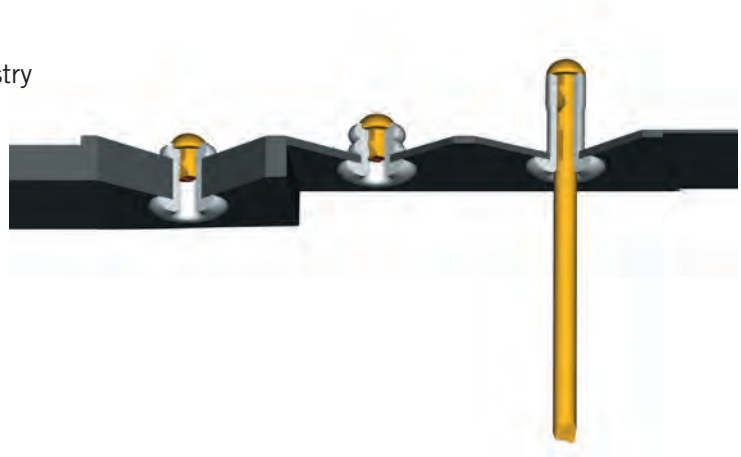
Combinations of hard and soft materials

Automotive, furniture & construction industry

HVAC applications

White goods

Repair & service industry

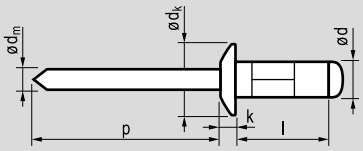


Info

MFX 1001

Aluminium [AlMg2,5]
Polished

Steel
Zinc plated



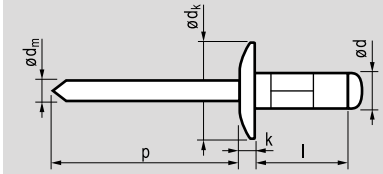
PLIA | multigrip | dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,0	6,0	0,5-3,0	**10013006**	6,0 [+/-0,24]	≤1,4	~1,70	≥27	655	520
[+0,05/-0,13]	8,0	0,5-5,0	**3008**						
	10,0	2,5-7,0	**3010**						
Ø 3,1 [3,3 max]	12,0	4,5-9,0	**3012**						
3,2	6,0	0,5-3,0	**10013206**	6,0 [+/-0,24]	≤1,4	~1,78	≥27	980	680
[+0,05/-0,13]	8,0	0,5-5,0	**3208**						
	9,5	2,0-6,5	**3209**						
Ø 3,3 [3,5 max]	10,0	2,5-7,0	**3210**						
	11,1	3,5-8,0	**3211**						
	12,0	4,5-9,0	**3212**						
	12,7	5,5-9,5	**3213**						
	14,0	6,5-11,0	**3214**						
	16,0	8,5-13,0	**3216**						
4,0	6,0	0,5-2,5	**10014006**	8,0 [+/-0,29]	≤1,7	~2,18	≥27	1.600	1.150
[+0,05/-0,13]	8,0	0,5-4,5	**4008**						
	9,5	1,0-6,0	**4009**						
Ø 4,1 [4,3 max]	10,0	1,5-6,5	**4010**						
	12,0	3,5-8,5	**4012**						
	12,7	4,0-9,5	**4013**						
	14,0	5,5-10,5	**4014**						
	16,0	7,5-12,5	**4016**						
	17,0	8,5-13,5	**4017**						
	18,0	9,5-14,5	**4018**						
	20,0	11,5-16,5	**4020**						
4,8	10,0	0,5-5,0	**10014810**	9,5 [+/-0,29]	≤2,0	~2,78	≥27	2.350	1.500
[+0,05/-0,13]	10,3	0,5-5,5	**4811**						
	12,0	2,0-7,0	**4812**						
Ø 4,9 [5,2 max]	14,0	4,0-9,0	**4814**						
	15,1	5,0-10,5	**4815**						
	16,0	6,0-11,0	**4816**						
	17,0	7,0-12,0	**4817**						
	18,0	8,0-13,0	**4818**						
	20,0	10,0-15,0	**4820**						
	22,0	12,0-17,0	**4822**						
	24,0	14,0-19,0	**4824**						
	24,8	14,5-19,5	**4825**						

MFX 1002

Aluminium [AlMg2,5]
Polished

Steel
Zinc plated



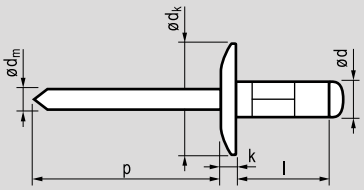
PLIA | multigrip | large head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	8,0	05,-5,0	**10023208**						
[+0,05/-0,13]	9,5	2,0-6,5	**3209**						
500	10,0	2,5-7,0	**3210**						
Ø 3,3 [3,5 max]	11,1	3,5-8,0	**3211**	9,5 [+0/-0,5]	≤2,0	~1,78	≥27	980	680
	12,0	4,5-9,0	**3212**						
	14,0	6,5-11,0	**3214**						
	16,0	8,5-13,0	**3216**						
4,0	8,0	0,5-4,5	**10024008**						
[+0,05/-0,13]	10,0	1,5-6,5	**4010**						
	11,1	2,5-7,5	**4011**						
Ø 4,1 [4,3 max]	12,0	3,5-8,5	**4012**						
	12,7	4,0-9,5	**4013**	12,0 [+0/-0,5]	≤2,5	~2,18	≥27	1.600	1.150
	14,0	5,5-10,5	**4014**						
	16,0	7,5-12,5	**4016**						
	17,0	8,5-13,5	**4017**						
	18,0	9,5-14,5	**4018**						
	20,0	11,5-16,5	**4020**						
4,8	10,0	0,5-5,0	**10024810**						
[+0,05/-0,13]	12,0	2,0-7,0	**4812**						
	14,0	4,0-9,0	**4814**	14,0 [+0/-0,5]	≤2,5	~2,78	≥27	2.350	1.500
Ø 4,9 [5,2 max]	16,0	6,0-11,0	**4816**						
	18,0	8,0-13,0	**4818**						
	20,0	10,0-15,0	**4820**						

MFX 1003

Aluminium [AlMg2,5]
Polished

Steel
Zinc plated



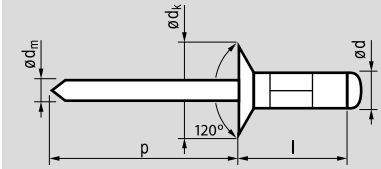
PLIA | multigrip | extra large head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
4,8	10,0	0,5-5,0	**10034810**						
[+0,05/-0,13]	10,3	0,5-5,5	**4811**						
	12,0	2,0-7,0	**4812**						
Ø 4,9 [5,2 max]	14,0	4,0-9,0	**4814**						
	16,0	6,0-11,0	**4816**						
	17,0	7,0-12,0	**4817**	16,0 [+0/-0,5]	≤2,5	~2,78	≥27	2.350	1.500
	18,0	8,0-13,0	**4818**						
	20,0	10,0-15,0	**4820**						
	22,0	12,0-17,0	**4822**						
	24,0	14,0-19,0	**4824**						
	24,8	14,5-19,5	**4825**						
	27,0	16,0-22,0	**4827**						

MFX 1004

Aluminium [AlMg2,5]
Polished

Steel
Zinc plated



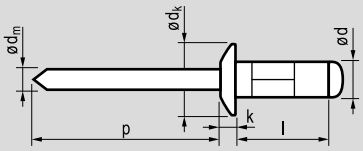
PLIA | multigrip | countersunk head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	8,0	1,5-5,0	**10043208**	6,0 [+/-0,24]	-	~1,78	≥27	980	680
[+0,05/-0,13]	9,7	2,5-6,5	**3209**						
	10,0	2,5-7,0	**3210**						
Ø 3,3 [3,5 max]	12,0	4,5-9,0	**3212**						
4,0	8,0	1,5-4,5	**10044008**	8,0 [+/-0,29]	-	~2,18	≥27	1.600	1.150
[+0,05/-0,13]	10,0	1,5-6,5	**4010**						
	11,3	2,5-7,5	**4011**						
Ø 4,1 [4,3 max]	12,0	3,5-8,5	**4012**						
	14,0	5,5-10,5	**4014**						
4,8	10,0	1,5-5,0	**10044810**	9,5 [+/-0,29]	-	~2,78	≥27	2.350	1.500
[+0,05/-0,13]	12,0	2,0-7,0	**4812**						
	14,0	4,0-9,0	**4814**						
Ø 4,9 [5,2 max]	16,0	6,0-11,0	**4816**						
	16,9	7,0-12,0	**4817**						

MFX 1171

Aluminium [AlMg2,5]
Polished

Steel
Zinc plated



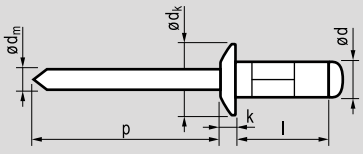
PLIA | multigrip | dome head (RAL 9010) white

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	6,0	0,5-3,0	**11713206**						
[+0,05/-0,13]	8,0	0,5-5,0	**3208**						
	9,5	2,0-6,5	**3209**						
Ø 3,3 [3,5 max]	10,0	2,5-7,0	**3210**						
	11,1	3,5-8,0	**3211**	6,0 [+/-0,24]	≤1,4	~1,78	≥27	980	680
	12,0	4,5-9,0	**3212**						
	12,7	5,5-9,5	**3213**						
	14,0	6,5-11,0	**3214**						
	16,0	8,5-13,0	**3216**						
4,0	6,0	0,5-2,5	**11714006**						
[+0,05/-0,13]	8,0	0,5-4,5	**4008**						
	9,5	1,0-6,0	**4009**						
Ø 4,1 [4,3 max]	10,0	1,5-6,5	**4010**						
	12,0	3,5-8,5	**4012**						
	12,7	4,0-9,5	**4013**	8,0 [+/-0,29]	≤1,7	~2,18	≥27	1.600	1.150
	14,0	5,5-10,5	**4014**						
	16,0	7,5-12,5	**4016**						
	17,0	8,5-13,5	**4017**						
	18,0	9,5-14,5	**4018**						
	20,0	11,5-16,5	**4020**						
4,8	10,0	0,5-5,0	**11714810**						
[+0,05/-0,13]	10,3	0,5-5,5	**4811**						
	12,0	2,0-7,0	**4812**						
Ø 4,9 [5,2 max]	14,0	4,0-9,0	**4814**						
	15,1	5,0-10,5	**4815**						
	16,0	6,0-11,0	**4816**	9,5 [+/-0,29]	≤2,0	~2,78	≥27	2.350	1.500
	17,0	7,0-12,0	**4817**						
	18,0	8,0-13,0	**4818**						
	20,0	10,0-15,0	**4820**						
	22,0	12,0-17,0	**4822**						
	24,0	14,0-19,0	**4824**						
	24,8	14,5-19,5	**4825**						

MFX 1181

Aluminium [AlMg2,5]
Polished

Steel
Zinc plated



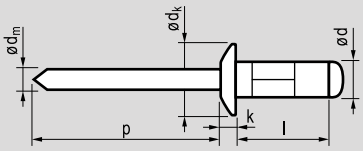
PLIA | multigrip | dome head (RAL 9005) black

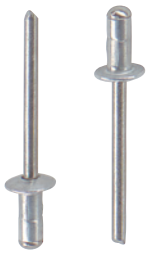
Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	6,0	0,5-3,0	**11813206**						
[+0,05/-0,13]	8,0	0,5-5,0	**3208**						
	9,5	2,0-6,5	**3209**						
Ø 3,3 [3,5 max]	10,0	2,5-7,0	**3210**						
	11,1	3,5-8,0	**3211**	6,0 [+/-0,24]	≤1,4	~1,78	≥27	980	680
	12,0	4,5-9,0	**3212**						
	12,7	5,5-9,5	**3213**						
	14,0	6,5-11,0	**3214**						
	16,0	8,5-13,0	**3216**						
4,0	6,0	0,5-2,5	**11814006**						
[+0,05/-0,13]	8,0	0,5-4,5	**4008**						
	9,5	1,0-6,0	**4009**						
Ø 4,1 [4,3 max]	10,0	1,5-6,5	**4010**						
	12,0	3,5-8,5	**4012**						
	12,7	4,0-9,5	**4013**	8,0 [+/-0,29]	≤1,7	~2,18	≥27	1.600	1.150
	14,0	5,5-10,5	**4014**						
	16,0	7,5-12,5	**4016**						
	17,0	8,5-13,5	**4017**						
	18,0	9,5-14,5	**4018**						
	20,0	11,5-16,5	**4020**						
4,8	10,0	0,5-5,0	**11814810**						
[+0,05/-0,13]	10,3	0,5-5,5	**4811**						
	12,0	2,0-7,0	**4812**						
Ø 4,9 [5,2 max]	14,0	4,0-9,0	**4814**						
	15,1	5,0-10,5	**4815**						
	16,0	6,0-11,0	**4816**	9,5 [+/-0,29]	≤2,0	~2,78	≥27	2.350	1.500
	17,0	7,0-12,0	**4817**						
	18,0	8,0-13,0	**4818**						
	20,0	10,0-15,0	**4820**						
	22,0	12,0-17,0	**4822**						
	24,0	14,0-19,0	**4824**						
	24,8	14,5-19,5	**4825**						

MFX 1441

Aluminium [AlMg2,5]
Polished

Stainless steel [A2]
Polished





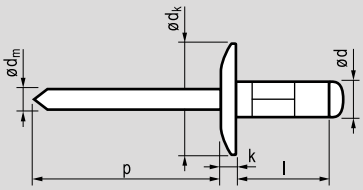
PLIA | multigrip | dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	8,0	0,5-5,0	**14413208**	6,0 [+/-0,24]	≤1,4	~1,78	≥27	980	680
[+0,05/-0,13]	9,5	2,0-6,5	**3209**						
	11,1	3,5-8,0	**3211**						
Ø 3,3 [3,5 max]									
4,0	9,5	1,0-6,0	**14414009**	8,0 [+/-0,29]	≤1,7	~2,18	≥27	1.600	1.150
[+0,05/-0,13]	12,7	4,0-9,5	**4012**						
	16,9	8,5-13,5	**4016**						
Ø 4,1 [4,3 max]									
4,8	10,3	0,5-5,5	**14414810**	9,5 [+/-0,29]	≤2,0	~2,78	≥27	2.350	1.500
[+0,05/-0,13]	15,1	5,0-10,5	**4815**						
	16,9	7,0-12,0	**4816**						
Ø 4,9 [5,2 max]	24,8	14,5-19,5	**4824**						

MFX 1443

Aluminium [AlMg2,5]
Polished

Stainless steel [A2]
Polished



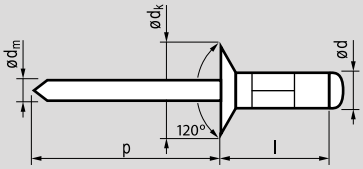
PLIA | multigrip | extra large head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	8,0	0,5-5,0	**14433208**	9,5 [+0/-0,5]	≤2,0	~1,78	≥27	980	680
[+0,05/-0,13]	9,5	2,0-6,5	**3209**						
	11,1	3,5-8,0	**3211**						
Ø 3,3 [3,5 max]									
4,0	12,7	4,0-9,5	**14434012**	12,0 [+0/-0,5]	≤2,5	~2,18	≥27	1.600	1.150
[+0,05/-0,13]	16,9	8,5-13,5	**4016**						
Ø 4,1 [4,3 max]									
4,8	10,3	0,5-5,5	**14434810**	16,0 [+0/-0,5]	≤2,5	~2,78	≥27	2.350	1.500
[+0,05/-0,13]	16,9	7,0-12,0	**4816**						
	24,8	14,5-19,5	**4824**						
Ø 4,9 [5,2 max]									

MFX 1444

Aluminium [AlMg2,5]
Polished

Stainless steel [A2]
Polished



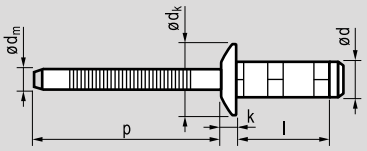
PLIA | multigrip | countersunk head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2 [+0,05/-0,13] Ø 3,3 [3,5 max]	9,7	2,0-6,5	**14443209**	6,0 [+0/-0,5]	-	~1,78	≥27	980	680
4,0 [+0,05/-0,13] Ø 4,1 [4,3 max]	9,5 11,3	1,5-6,0 3,0-8,0	**14444009** **4011**	7,5 [+0/-0,5]	-	~2,18	≥27	1.600	1.150
4,8 [+0,05/-0,13] Ø 4,9 [5,2 max]	12,1 16,9	2,0-7,0 7,0-12,0	**14444812** **4816**	9,0 [+0/-0,5]	-	~2,78	≥27	2.350	1.500

MFX 1451

Stainless steel [A2]
Polished

Stainless steel [A2]
Polished



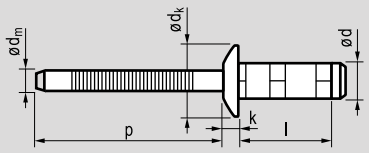
PLIA | multigrip | dome head

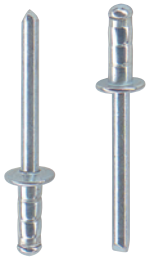
Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	8,0	1,5-4,0	**14513208**	7,2	1,00	~2,10	≥27	1.780	1.570
[+0,08/-0,15]									
Ø 3,3									
4,0	10,0	1,5-5,0	**14514010**						
[+0,08/-0,15]	12,0	3,5-7,0	**4012**	8,1 [+/-0,25]	1,20 [+/-0,15]	~2,60	≥27	3.350	4.200
	15,0	6,0-9,5	**4015**						
Ø 4,1									
4,8	10,0	1,5-5,0	**14514810**						
[+0,08/-0,15]	12,0	3,0-7,0	**4812**	9,8 [+/-0,25]	1,75 [+/-0,25]	~3,20	≥27	4.300	5.000
	15,0	6,5-10,0	**4815**						
Ø 4,9	17,5	9,0-12,5	**4817**						

MFX 1461

Steel
Zinc plated

Steel
Zinc plated





PLIA | multigrip | dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2 [+0,08/-0,15] Ø 3,3	9,0	1,5-4,0	**14613209**	7,2	1,00	~2,10	≥27	1.700	1.500
4,0 [+0,08/-0,15] Ø 4,1	10,8 12,5	1,5-4,5 3,0-6,0	**14614010** **4012**	8,1 [+/-0,25]	1,20 [+/-0,15]	~2,63	≥27	2.350	1.955
4,8 [+0,08/-0,15] Ø 4,9	10,2 12,7 17,5	1,5-4,5 3,5-7,5 8,0-12,0	**14614810** **4812** **4817**	9,8 [+/-0,25]	1,75 [+/-0,25]	~3,40	≥27	3.600	3.335

Masterfix Standard blind rivets

The diversity in standard rivets is enormous, in alloys as well as in (head) types: from copper or stainless dome head to aluminium with extra large flange. The standard rivet with dome head, is on request also available in different RAL-colors.

Applications

Automotive industry

Furniture industry

Heating & air conditioning

Domestic appliances

Containers

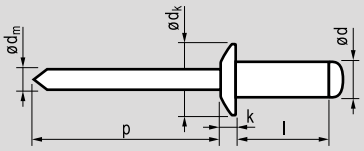
Etc.

Info

MFX 1031

Aluminium [AlMg2,5/3,5]
Polished

Steel
Zinc plated



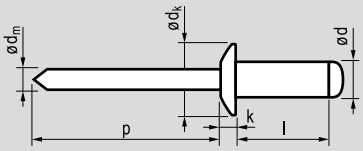
open type I dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
2,4	4,0	~2,0	**10312404**						
[+0,08/-0,10]	6,0	2,0-4,0	**2406**	5,0 [+0/-0,7]	0,7 [+/-0,15]	~1,45	≥27	355	315
	8,0	4,0-6,0	**2408**						
Ø 2,5	10,0	6,0-8,0	**2410**						
3,0	4,0	~1,5	**10313004**						
[+0,08/-0,10]	6,0	1,5-3,5	**3006**						
	8,0	3,5-5,5	**3008**						
Ø 3,1	10,0	5,5-7,5	**3010**	6,5 [+0/-0,7]	0,8 [+/- 0,2]	~1,75	≥27	810	620
	12,0	7,5-9,5	**3012**						
	14,0	9,5-11,5	**3014**						
	16,0	11,5-13,5	**3016**						
3,2	4,0	~1,5	**10313204**						
[+0,08/-0,10]	6,0	1,5-3,5	**3206**						
	8,0	3,5-5,5	**3208**						
Ø 3,3	10,0	5,5-7,5	**3210**						
	12,0	7,5-9,5	**3212**	6,5 [+0/-0,7]	0,8 [+/- 0,2]	~1,75	≥27	980	760
	14,0	9,5-11,5	**3214**						
	16,0	11,5-13,5	**3216**						
	18,0	13,5-15,5	**3218**						
	20,0	15,5-17,5	**3220**						
4,0	6,0	1,5-3,0	**10314006**						
[+0,08/-0,15]	8,0	3,0-5,0	**4008**						
	10,0	5,0-6,5	**4010**						
Ø 4,1	12,0	6,5-8,5	**4012**						
	14,0	8,5-10,5	**4014**	8,0 [+0/-1,0]	1,0 [+/- 0,3]	~2,10	≥27	1.600	1.200
	16,0	10,5-12,5	**4016**						
	18,0	12,5-14,5	**4018**						
	20,0	14,5-16,5	**4020**						
	23,0	16,5-19,0	**4023**						
	25,0	19,0-21,5	**4025**						

MFX 1031

Aluminium [AlMg2,5/3,5]
Polished

Steel
Zinc plated



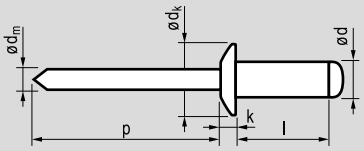
open type I dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
4,8	6,0	1,0-3,0	**10314806**						
[+0,08/-0,15]	8,0	3,0-4,5	**4808**						
	10,0	4,5-6,0	**4810**						
Ø 4,9	12,0	6,0-8,0	**4812**						
	14,0	8,0-10,0	**4814**						
	16,0	10,0-12,0	**4816**						
	18,0	12,0-14,0	**4818**	9,5 [+0/-1,0]	1,1 [+/- 0,3]	~2,70	≥27	2.230	1.690
	20,0	14,0-16,0	**4820**						
	22,0	16,0-18,0	**4822**						
	25,0	18,0-21,0	**4825**						
	28,0	21,0-23,5	**4828**						
	30,0	23,5-25,0	**4830**						
	35,0	25,0-30,0	**4835**						
	40,0	30,0-35,0	**4840**						
5,0	6,0	1,0-3,0	**10315006**						
[+0,08/-0,15]	8,0	3,0-4,5	**5008**						
	10,0	4,5-6,0	**5010**						
Ø 5,1	12,0	6,0-8,0	**5012**						
	14,0	8,0-10,0	**5014**						
	16,0	10,0-12,0	**5016**						
	18,0	12,0-14,0	**5018**	9,5 [+0/-1,0]	1,1 [+/- 0,3]	~2,70	≥27	2.500	2.000
	21,0	14,0-17,0	**5021**						
	25,0	17,0-20,0	**5025**						
	27,0	20,0-23,0	**5027**						
	30,0	23,0-25,0	**5030**						
	35,0	25,0-30,0	**5035**						
	40,0	30,0-35,0	**5040**						
6,0	8,0	2,0-4,0	**10316008**						
[+0,08/-0,15]	10,0	4,0-6,0	**6010**						
	12,0	6,0-8,0	**6012**						
Ø 6,1	14,0	7,0-9,0	**6014**						
	16,0	9,0-11,0	**6016**	12,0 [+0/-1,5]	1,5 [+/- 0,4]	~3,60	≥31	3.900	3.000
	18,0	11,0-13,0	**6018**						
	22,0	13,0-17,0	**6022**						
	26,0	17,0-20,0	**6026**						
	30,0	20,0-24,0	**6030**						

MFX 1031

Aluminium [AlMg2,5/3,5]
Polished

Steel
Zinc plated



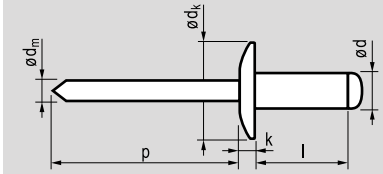
open type | dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
6,4	10,0	2,0-5,0	**10316410**						
[+0,08/-0,15]	12,0	4,0-6,0	**6412**						
	15,0	6,0-9,0	**6415**						
ø 6,5	18,0	9,0-13,0	**6418**	13,0 [+0/-1,5]	1,8 [+/- 0,4]	~3,85	≥31	4.090	3.120
	22,0	13,0-16,0	**6422**						
	26,0	16,0-20,0	**6426**						
	30,0	18,0-24,0	**6430**						

MFX 1032

Aluminium [AlMg3,5]
Polished

Steel
Zinc plated



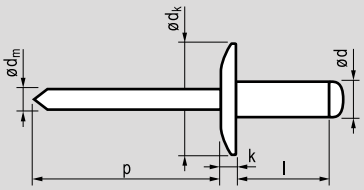
open type | large head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	6,0	1,5-3,5	**10323206**						
[+0,08/-0,10]	8,0	3,5-5,5	**3208**						
	10,0	5,5-7,5	**3210**	9,5 [+0/-0,5]	≤2,0	~1,70	≥27	980	760
Ø 3,3	12,0	7,5-9,5	**3212**						
	14,0	9,5-11,5	**3214**						
4,0	6,0	1,5-3,0	**10324006**						
[+0,08/-0,15]	8,0	3,0-5,0	**4008**						
	10,0	5,0-6,5	**4010**	12,0 [+0/-0,5]	≤2,5	~2,10	≥27	1.600	1.200
Ø 4,1	12,0	6,5-8,5	**4012**						
	14,0	8,5-10,5	**4014**						
	16,0	10,5-12,5	**4016**						
4,8	8,0	3,0-4,5	**10324808**						
[+0,08/-0,15]	10,0	4,5-6,0	**4810**						
	12,0	6,0-8,0	**4812**						
Ø 4,9	14,0	8,0-10,0	**4814**						
	16,0	10,0-12,0	**4816**						
	18,0	12,0-14,0	**4818**						
	20,0	14,0-16,0	**4820**	14,0 [+0/-0,5]	≤2,5	~2,70	≥27	2.230	1.690
	22,0	16,0-18,0	**4822**						
	24,0	18,0-21,0	**4824**						
	26,0	19,5-22,0	**4826**						
	28,0	21,0-23,5	**4828**						
	30,0	23,0-25,0	**4830**						
	35,0	25,0-30,0	**4835**						
5,0	8,0	3,0-4,5	**10325008**						
[+0,08/-0,15]	10,0	4,5-6,0	**5010**						
	12,0	6,0-8,0	**5012**						
Ø 5,1	14,0	8,0-10,0	**5014**	14,0 [+0/-0,5]	≤2,5	~2,70	≥27	2.500	2.000
	16,0	10,0-12,0	**5016**						
	18,0	12,0-14,0	**5018**						
	21,0	14,0-17,0	**5021**						
	24,0	17,0-20,0	**5024**						

MFX 1033

Aluminium [AlMg3,5]
Polished

Steel
Zinc plated



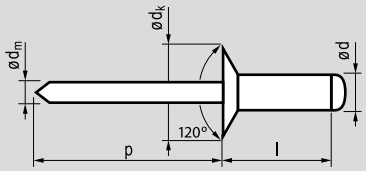
open type | extra large head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
4,8	10,0	4,5-6,0	**10334810**						
[+0,08/-0,15]	12,0	6,0-8,0	**4812**						
	14,0	8,0-10,0	**4814**						
Ø 4,9	16,0	10,0-12,0	**4816**						
	18,0	12,0-14,0	**4818**	16,0 [+0/-0,5]	≤2,5	~2,70	≥27	2.230	1.690
	20,0	14,0-16,0	**4820**						
	22,0	16,0-18,0	**4822**						
	24,0	18,0-20,0	**4824**						
	26,0	20,0-22,0	**4826**						

MFX 1034

Aluminium [AlMg2,5/3,5]
Polished

Steel
Zinc plated



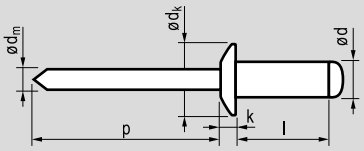
open type | countersunk head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
2,4	6,0	2,0-4,0	**10342406**	5,0 [+0/-0,4]	-	~1,45	≥27	355	315
[+0,08/-0,10]	8,0	4,0-6,0	**2408**						
	10,0	6,0-8,0	**2410**						
Ø 2,5									
3,0	6,0	1,5-3,5	**10343006**	6,0 [+0/-0,4]	-	~1,75	≥27	810	620
[+0,08/-0,10]	8,0	3,5-5,5	**3008**						
	10,0	5,5-7,5	**3010**						
Ø 3,1	12,0	7,5-9,5	**3012**						
3,2	6,0	1,5-3,5	**10343206**	6,0 [+0/-0,4]	-	~1,75	≥27	980	760
[+0,08/-0,10]	8,0	3,5-5,5	**3208**						
	10,0	5,5-7,5	**3210**						
Ø 3,3	12,0	7,5-9,5	**3212**						
	14,0	9,5-11,5	**3214**						
4,0	6,0	1,5-3,0	**10344006**	7,5 [+0/-0,5]	-	~2,10	≥27	1.600	1.200
[+0,08/-0,15]	8,0	3,0-5,0	**4008**						
	10,0	5,0-6,5	**4010**						
Ø 4,1	12,0	6,5-8,6	**4012**						
	14,0	8,5-10,5	**4014**						
	16,0	10,5-12,5	**4016**						
4,8	8,0	3,0-4,5	**10344808**	9,0 [+0/-0,5]	-	~2,70	≥27	2.230	1.690
[+0,08/-0,15]	10,0	4,5-6,0	**4810**						
	12,0	6,0-8,0	**4812**						
Ø 4,9	14,0	8,0-10,0	**4814**						
	16,0	10,0-12,0	**4816**						
	18,0	12,0-14,0	**4818**						
	20,0	14,0-16,0	**4820**						
	25,0	18,0-21,0	**4825**						
5,0	8,0	3,0-4,5	**10345008**	9,0 [+0/-0,5]	-	~2,70	≥27	2.500	2.000
[+0,08/-0,15]	10,0	4,5-6,0	**5010**						
	12,0	6,0-8,0	**5012**						
Ø 5,1	14,0	8,0-10,0	**5014**						
	16,0	10,0-12,0	**5016**						
	18,0	12,0-14,0	**5018**						
	21,0	14,0-17,0	**5020**						
	25,0	17,0-20,0	**5025**						

MFX 1021

Aluminium [AlMg2,5]
Polished

Aluminium
Polished



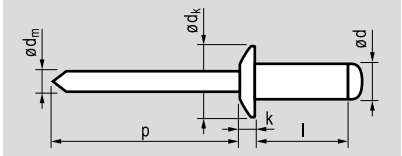
open type I dome head

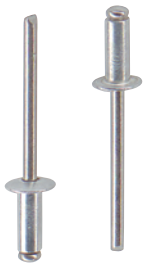
Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	6,0	1,5-3,5	**10213206**						
[+0,08/-0,10]	8,0	3,5-5,5	**3208**						
	10,0	5,5-7,5	**3210**	6,5 [+0/-0,7]	0,8 [+/-0,2]	~1,95	≥27	670	535
Ø 3,3	12,0	7,5-9,5	**3212**						
	14,0	9,5-11,5	**3214**						
	16,0	11,5-13,5	**3216**						
4,0	6,0	1,5-3,0	**10214006**						
[+0,08/-0,15]	8,0	3,0-5,0	**4008**						
	10,0	5,0-7,0	**4010**	8,0 [+0/-1,0]	1,0 [+/-0,3]	~2,45	≥27	1.025	845
Ø 4,1	12,0	7,0-9,0	**4012**						
	14,0	9,0-11,0	**4014**						
	16,0	11,0-13,0	**4016**						
4,8	8,0	2,5-4,5	**10214808**						
[+0,08/-0,15]	10,0	4,5-6,5	**4810**						
	12,0	6,5-8,5	**4812**						
Ø 4,9	14,0	8,5-10,5	**4814**	9,5 [+0/-1,0]	1,1 [+/-0,3]	~2,90	≥27	1.425	1.155
	16,0	10,5-12,5	**4816**						
	18,0	12,5-14,5	**4818**						
	20,0	14,5-16,5	**4820**						
	25,0	19,5-21,5	**4825**						

MFX 1071

Aluminium [AlMg3]
Polished

Stainless steel [A2]
Polished





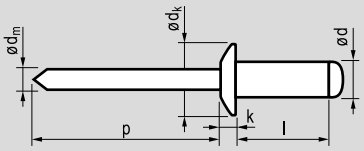
open type | dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,0	6,0	1,5-3,5	**10713006**	6,5 [+0/-0,7]	0,8 [+/-0,2]	~1,75	≥27	810	620
[+0,08/-0,10]	8,0	3,5-5,5	**3008**						
	10,0	5,5-7,0	**3010**						
Ø 3,1	12,0	7,0-9,0	**3012**						
3,2	6,0	1,5-3,5	**10713206**	6,5 [+0/-0,7]	0,8 [+/-0,2]	~1,95	≥27	980	760
[+0,08/-0,10]	8,0	3,5-5,5	**3208**						
	10,0	5,5-7,0	**3210**						
Ø 3,3	12,0	7,0-9,0	**3212**						
4,0	6,0	1,0-3,0	**10714006**	8,0 [+0/-1,0]	1,0 [+/-0,3]	~2,10	≥27	1.600	1.200
[+0,08/-0,15]	8,0	3,0-5,0	**4008**						
	10,0	5,0-7,0	**4010**						
Ø 4,1	12,0	7,0-9,0	**4012**						
4,8	8,0	2,5-4,5	**10714808**	9,5 [+0/-1,0]	1,1 [+/-0,3]	~2,70	≥27	2.230	1.690
[+0,08/-0,15]	10,0	4,5-6,5	**4810**						
	12,0	6,5-8,5	**4812**						
Ø 4,9	14,0	8,5-10,5	**4814**						
	16,0	10,5-12,5	**4816**						
	18,0	12,5-14,5	**4818**						
	20,0	14,5-16,5	**4820**						
5,0	8,0	2,5-4,5	**10715008**	9,5 [+0/-1,0]	1,1 [+/-0,3]	~2,70	≥27	2.500	2.000
[+0,08/-0,15]	10,0	4,5-6,5	**5010**						
	12,0	6,5-8,5	**5012**						
Ø 5,1	16,0	10,5-12,5	**5016**						

MFX 1041

Steel
Zinc plated

Steel
Zinc plated



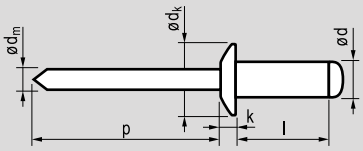
open type | dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,0	6,0	1,5-3,0	**10413006**						
[+0,08/-0,10]	8,0	3,0-5,0	**3008**						
	10,0	5,0-7,0	**3010**	6,5 [+0/-0,7]	0,8 [+/-0,2]	~1,90	≥27	1.125	915
Ø 3,1	12,0	7,0-9,0	**3012**						
	14,0	9,0-11,0	**3014**						
3,2	6,0	1,5-3,0	**10413206**						
[+0,08/-0,10]	8,0	3,0-5,0	**3208**						
	10,0	5,0-7,0	**3210**	6,5 [+0/-0,7]	0,8 [+/-0,2]	~2,00	≥27	1.285	1.060
Ø 3,3	12,0	7,0-9,0	**3212**						
	14,0	9,0-11,0	**3214**						
	16,0	11,0-13,0	**3216**						
4,0	6,0	1,5-2,5	**10414006**						
[+0,08/-0,15]	8,0	2,5-4,5	**4008**						
	10,0	4,5-6,5	**4010**						
Ø 4,1	12,0	6,5-8,5	**4012**	8,0 [+0/-1,0]	1,0 [+/-0,3]	~2,50	≥27	1.990	1.550
	14,0	8,5-10,5	**4014**						
	16,0	10,5-12,5	**4016**						
	18,0	12,5-14,5	**4018**						
	20,0	14,5-16,5	**4020**						
4,8	6,0	1,0-2,5	**10414806**						
[+0,08/-0,15]	8,0	2,5-4,5	**4808**						
	10,0	4,5-6,0	**4810**						
Ø 4,9	12,0	6,0-8,0	**4812**						
	14,0	8,0-10,0	**4814**						
	16,0	10,0-11,5	**4816**	9,5 [+0/-1,0]	1,1 [+/-0,3]	~2,90	≥27	2.920	2.300
	18,0	11,5-13,5	**4818**						
	20,0	13,5-15,0	**4820**						
	22,0	15,0-17,0	**4822**						
	25,0	17,0-20,0	**4825**						
	28,0	20,0-23,0	**4828**						
	30,0	23,0-26,0	**4830**						
5,0	8,0	2,5-4,0	**10415008**						
[+0,08/-0,15]	10,0	4,0-6,0	**5010**						
	12,0	6,0-8,0	**5012**						
Ø 5,1	14,0	8,0-10,0	**5014**	9,5 [+0/-1,0]	1,1 [+/-0,3]	~2,90	≥27	3.255	2.575
	16,0	10,0-11,5	**5016**						
	18,0	11,5-13,5	**5018**						
	20,0	13,5-15,0	**5020**						

MFX 1041

Steel
Zinc plated

Steel
Zinc plated



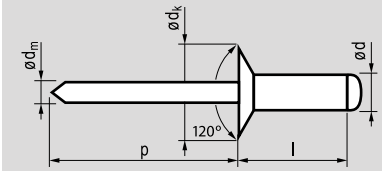
open type I dome head

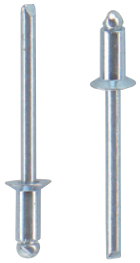
Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
6,0	12,0	3,5-6,5	**10416012**						
[+0,08/-0,15]	15,0	6,5-9,5	**6015**						
	18,0	9,5-12,5	**6018**	12,0 [+0/-1,5]	1,5 [+/-0,4]	~3,60	≥31	5.020	4.040
Ø 6,1	22,0	13,5-16,5	**6022**						
	26,0	17,5-20,5	**6026**						
	30,0	21,5-24,5	**6030**						
6,4	12,0	3,5-6,5	**10416412**						
[+0,08/-0,15]	15,0	6,5-9,5	**6415**						
	18,0	9,5-12,5	**6418**	13,0 [+0/-1,5]	1,8 [+/-0,4]	~3,85	≥31	5.415	4.355
Ø 6,5	22,0	14,5-16,5	**6422**						
	26,0	18,5-20,5	**6426**						
	30,0	22,5-24,5	**6430**						

MFX 1044

Steel
Zinc plated

Steel
Zinc plated





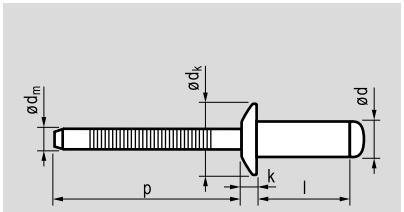
open type | countersunk head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,0	6,0	1,5-3,0	**10443006**	6,0 [+0/-0,4]	-	~1,90	≥27	1.125	915
[+0,08/-0,10]	8,0	3,0-5,0	**3008**						
	10,0	5,0-7,0	**3010**						
Ø 3,1	12,0	7,0-9,0	**3012**						
3,2	6,0	1,5-3,0	**10443206**	6,0 [+0/-0,4]	-	~2,00	≥27	1.285	1.060
[+0,08/-0,10]	8,0	3,0-5,0	**3208**						
	10,0	5,0-7,0	**3210**						
Ø 3,3	12,0	7,0-9,0	**3212**						
4,0	6,0	1,5-2,5	**10444006**	7,5 [+0/-0,5]	-	~2,50	≥27	1.990	1.550
[+0,08/-0,15]	8,0	2,5-4,5	**4008**						
	10,0	4,5-6,5	**4010**						
Ø 4,1	12,0	6,5-8,5	**4012**						
	14,0	8,5-10,5	**4014**						
	16,0	10,5-12,5	**4016**						
4,8	8,0	2,5-4,5	**10444808**	9,0 [+0/-0,5]	-	~2,90	≥27	2.920	2.300
[+0,08/-0,15]	10,0	4,5-6,0	**4810**						
	12,0	6,0-8,0	**4812**						
Ø 4,9	14,0	8,0-10,0	**4814**						
	16,0	10,0-11,5	**4816**						
	18,0	11,5-13,5	**4818**						
	20,0	13,5-15,5	**4820**						

MFX 1051

Stainless steel [A2]
Polished

Stainless steel [A2]
Polished



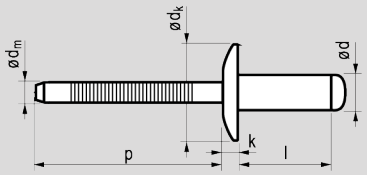
open type I dome head

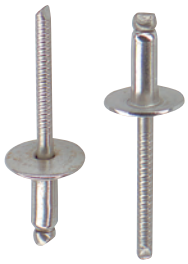
Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,0	6,0	1,5-2,5	**10513006**	6,5 [+0/-0,7]	0,8 [+/-0,2]	~1,90	≥27	2.000	1.600
[+0,08/-0,10]	8,0	2,5-4,5	**3008**						
	10,0	4,5-6,5	**3010**						
Ø 3,1	12,0	6,5-8,5	**3012**						
3,2	4,0	~1,5	**10513204**	6,5 [+0/-0,7]	0,8 [+/-0,2]	~2,00	≥27	2.500	1.800
[+0,08/-0,10]	6,0	1,5-2,5	**3206**						
	8,0	2,5-4,5	**3208**						
Ø 3,3	10,0	4,5-6,5	**3210**						
	12,0	6,5-8,5	**3212**						
	15,0	8,5-12,0	**3215**						
	18,0	12,0-15,0	**3218**						
4,0	6,0	~2,0	**10514006**	8,0 [+0/-1,0]	1,0 [+/-0,3]	~2,50	≥27	3.800	3.100
[+0,08/-0,15]	8,0	2,0-4,0	**4008**						
	10,0	4,0-6,0	**4010**						
Ø 4,1	13,0	7,0-9,0	**4013**						
	16,0	10,0-12,0	**4016**						
	18,0	12,0-14,0	**4018**						
	20,0	14,0-16,0	**4020**						
4,8	8,0	1,5-3,0	**10514808**	9,5 [+0/-1,0]	1,1 [+/-0,3]	~2,90	≥27	6.000	4.500
[+0,08/-0,15]	10,0	3,0-5,0	**4810**						
	12,0	5,0-7,0	**4812**						
Ø 4,9	14,0	7,0-9,0	**4814**						
	16,0	9,0-11,0	**4816**						
	18,0	11,0-13,0	**4818**						
	20,0	13,0-15,0	**4820**						
5,0	8,0	1,5-3,0	**10515008**	9,5 [+0/-1,0]	1,1 [+/-0,3]	~2,90	≥27	6.500	5.000
[+0,08/-0,15]	10,0	3,0-5,0	**5010**						
	12,0	5,0-7,0	**5012**						
Ø 5,1	16,0	9,0-11,0	**5016**						
6,0	12,0	4,0-6,0	**10516012**	12,0 [+0/-1,5]	1,5 [+/-0,4]	~3,60	≥31	8.830	6.500
[+0,08/-0,15]	15,0	6,0-9,0	**6015**						
	18,0	9,0-12,0	**6018**						
Ø 6,1	20,0	11,0-14,0	**6020**						
6,4	12,0	4,5-6,5	**10516412**	12,0 [+0/-1,5]	2,1 [+/-0,4]	~3,85	≥31	8.850	6.500
[+0,08/-0,15]	15,0	6,5-9,5	**6415**						
	18,0	9,5-12,5	**6418**						
Ø 6,5	20,0	11,5-14,5	**6420**						
	25,0	17,0-20,0	**6425**						

MFX 1052

Stainless steel [A2]
Polished

Stainless steel [A2]
Polished





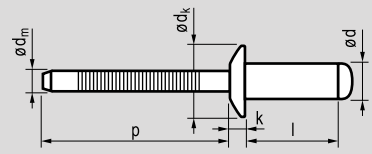
open type | large head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
4,8	8,0	1,5-3,0	**10524808**						
[+0,08/-0,15]	10,0	3,0-5,0	**4810**						
	12,0	5,0-7,0	**4812**	14 [+0/-1,0]	1,2 [+/-0,3]	~2,90	≥27	5.300	4.200
Ø 4,9	14,0	7,0-9,0	**4814**						
	16,0	9,0-11,0	**4816**						

MFX 1541

Stainless steel [A4]
Polished

Stainless steel [A4]
Polished



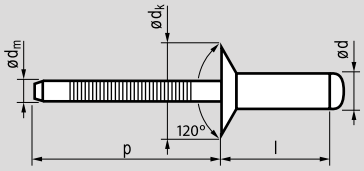
open type I dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,0	6,0	1,5-2,5	**15413006**	6,5 [+0/-0,7]	0,8 [+/-0,2]	~1,90	≥27	2.000	1.600
[+0,08/-0,10]	8,0	2,5-4,5	**3008**						
	10,0	4,5-6,5	**3010**						
Ø 3,1									
3,2	6,0	1,5-2,5	**15413206**	6,5 [+0/-0,7]	0,8 [+/-0,2]	~2,00	≥27	2.500	1.800
[+0,08/-0,10]	8,0	2,5-4,5	**3208**						
	10,0	4,5-6,5	**3210**						
Ø 3,3	12,0	6,5-8,5	**3212**						
4,0	6,0	~2,0	**15414006**	8,0 [+0/-1,0]	1,0 [+/-0,3]	~2,50	≥27	3.800	3.100
[+0,08/-0,15]	8,0	2,0-4,0	**4008**						
	10,0	4,0-6,0	**4010**						
Ø 4,1	13,0	7,0-9,0	**4013**						
	16,0	10,0-12,0	**4016**						
4,8	8,0	1,5-3,0	**15414808**	9,5 [+0/-1,0]	1,1 [+/-0,3]	~2,90	≥27	6.000	4.500
[+0,08/-0,15]	10,0	3,0-5,0	**4810**						
	12,0	5,0-7,0	**4812**						
Ø 4,9	14,0	7,0-9,0	**4814**						
	16,0	9,0-11,0	**4816**						
	18,0	11,0-13,0	**4818**						

MFX 1054

Stainless steel [A2]
Polished

Stainless steel [A2]
Polished



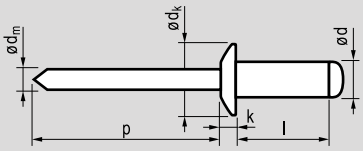
open type | countersunk head

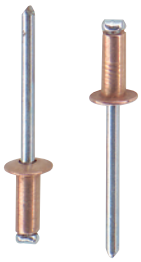
Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	6,0	1,5-2,5	**10543206**	6,0 [+0/-0,4]	-	~2,00	≥27	2.500	1.800
[+0,08/-0,10]	8,0	2,5-4,5	**3208**						
	10,0	4,5-6,5	**3210**						
Ø 3,3	12,0	6,5-8,5	**3212**						
4,0	6,0	~2,0	**10544006**	7,5 [+0/-0,5]	-	~2,50	≥27	3.800	3.100
[+0,08/-0,15]	8,0	2,0-4,0	**4008**						
	10,0	4,0-6,0	**4010**						
Ø 4,1	12,0	6,0-8,0	**4012**						
	15,0	9,0-11,0	**4015**						
4,8	8,0	1,5-3,0	**10544808**	9,0 [+0/-0,5]	-	~2,90	≥27	6.000	4.500
[+0,08/-0,15]	10,0	3,0-5,0	**4810**						
	12,0	5,0-7,0	**4812**						
Ø 4,9	15,0	8,0-10,0	**4815**						
	18,0	11,0-13,0	**4818**						
	21,0	14,0-16,0	**4821**						
	25,0	18,0-20,0	**4825**						

MFX 1101

Copper
Polished

Steel
Zinc plated





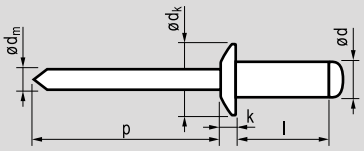
open type | dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,0	6,0	1,0-3,0	**11013006**	6,5 [+0/-0,7]	0,8 [+/-0,2]	~1,75	≥27	700	600
[+0,08/-0,10]	8,0	3,0-5,0	**3008**						
	10,0	5,0-7,0	**3010**						
Ø 3,1	12,0	7,0-9,0	**3012**						
3,2	6,0	1,0-3,0	**11013206**	6,5 [+0/-0,7]	0,8 [+/-0,2]	~1,95	≥27	800	700
[+0,08/-0,10]	8,0	3,0-5,0	**3208**						
	10,0	5,0-7,0	**3210**						
Ø 3,3	12,0	7,0-9,0	**3212**						
4,0	6,0	1,0-2,5	**11014006**	8,0 [+0/-1,0]	1,0 [+/-0,3]	~2,10	≥27	1.500	1.000
[+0,08/-0,15]	8,0	2,5-4,5	**4008**						
	10,0	4,5-6,5	**4010**						
Ø 4,1	12,0	6,5-8,5	**4012**						
	14,0	8,5-10,5	**4014**						
	16,0	10,5-12,5	**4016**						
4,8	8,0	1,5-3,5	**11014808**	9,5 [+0/-1,0]	1,1 [+/-0,3]	~2,70	≥27	2.000	1.500
[+0,08/-0,15]	10,0	3,5-5,5	**4810**						
	12,0	5,5-7,5	**4812**						
Ø 4,9	14,0	7,5-9,5	**4814**						
	16,0	9,5-11,5	**4816**						

MFX 1151

Copper
Polished

Bronze
Polished



open type | dome head

Ø d	l [+/-0,10]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	5,0	2,0-3,0	**11513205**						
[+0/-0,05]	6,0	2,5-3,5	**3206**						
	7,0	3,0-4,5	**3207**	6,2 [+/-0,2]	0,8 [+/-0,2]	~2,00	≥31	1.000	800
Ø 3,3	9,0	4,0-6,5	**3209**						
	10,0	5,0-7,5	**3210**						
	12,0	7,0-9,5	**3212**						

Masterfix Standard blind rivets for special applications

In addition to the standard range of blind rivets, Masterfix offers the supply of many other types of blind rivets for specific applications from stock.

Peel rivets for applications in soft materials such as

Wood

Insulation

Plastics

Plasterboard

TRIFORM rivets for applications in soft materials such as

Wood

Insulation

Plastics

Plasterboard

Grooved rivets for applications in materials such as

Wood

Plastics, e.g. flight cases

HAMMERDRIVE for applications in materials such as

Brick and concrete

Roofing

Sealing profiles

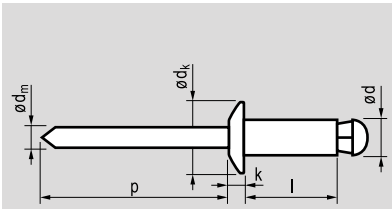
Insulation industry

If you are looking for a solution to a specific fastening problem, just contact us. Our Sales department, in cooperation with our Research and Development department, will find a suitable solution for you.

MFX 1301

Aluminium [AlMg3,5]
Polished

Steel
Zinc plated



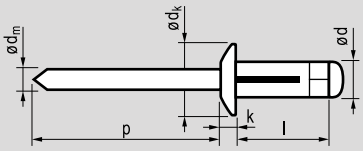
peel type | dome head

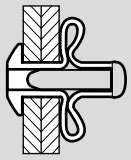
Ø d	l [+0,3/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	8,0	0,5-1,0	**13013208**						
[+/-0,15]	10,0	1,0-3,0	**3210**						
	12,0	3,0-5,0	**3212**	6,5 [+/-0,2]	1,0 [+/-0,1]	~1,80	≥27	750	820
Ø [3,5 min]	16,0	7,0-9,0	**3216**						
[3,7 max]	18,0	9,0-11,0	**3218**						
4,0	10,0	1,5-5,0	**13014010**						
[+/-0,15]	12,0	4,0-6,5	**4012**						
	14,0	6,0-9,0	**4014**	8,0 [+/-0,4]	1,2 [+/-0,2]	~2,10	≥27	1.140	1.280
Ø [4,3 min]	16,0	8,0-11,0	**4016**						
[4,5 max]	18,0	10,0-13,0	**4018**						
	20,0	12,0-15,0	**4020**						
4,8	10,0	1,5-4,0	**13014810**						
[+/-0,15]	12,0	2,0-6,0	**4812**						
	14,0	4,0-8,0	**4814**						
Ø [5,2 min]	16,0	6,0-10,0	**4816**						
[5,3 max]	18,0	8,0-12,0	**4818**						
	20,0	10,0-14,0	**4820**	9,0 [+/-0,4]	1,4 [+/-0,2]	~2,70	≥27	2.450	2.100
	22,0	12,0-16,0	**4822**						
	25,0	16,0-19,0	**4825**						
	30,0	19,0-24,0	**4830**						
	35,0	24,0-29,0	**4835**						
	40,0	29,0-34,0	**4840**						

MFX 1361

Aluminium [AlMg2,5]
Polished

Aluminium [AlMg5]
Polished





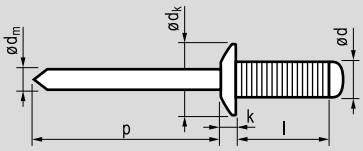
TRIFORM | dome head

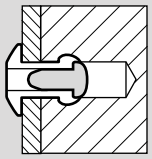
Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
4,0	13,6	1,0-3,0	**13614013**	8,0 [+/-0,29]	≤1,4	~2,30	≥27	800	600
[+/-0,1]	18,8	1,0-7,0	**4018**						
Ø 4,2 [4,4 max]									
4,8	15,3	1,0-4,0	**13614815**	9,6 [+/-0,29]	≤1,6	~2,90	≥27	1.100	800
[+/-0,1]	20,5	1,0-9,0	**4820**						
	24,5	4,0-12,0	**4824**						
Ø 5,0 [5,2 max]									

MFX 1601

Aluminium [AlMg2,5]
Polished

Steel
Zinc plated





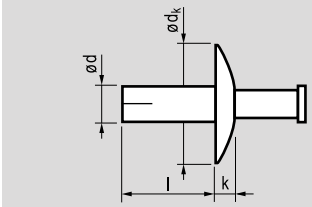
grooved type l dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	10,0	Max. 6,0	**16013210**	6,0 [+/-0,24]	≤1,4	~1,80	≥27	930	525
[+0,35/-0]	14,0	Max.10,0	**3214**						
Ø 3,4									
4,0	8,0	Max. 4,0	**16014008**	8,0 [+/-0,29]	≤1,7	~2,20	≥27	1.410	885
[+0,35/-0]	10,0	Max. 6,0	**4010**						
	12,0	Max. 8,0	**4012**						
Ø 4,3	16,0	Max.12,0	**4016**						
4,8	8,0	Max. 4,0	**16014808**	9,5 [+/-0,29]	≤2,0	~2,65	≥27	1.575	1.185
[+0,35/-0]	10,0	Max. 6,0	**4810**						
	11,0	Max. 7,0	**4811**						
Ø 5,1	12,0	Max. 8,0	**4812**						
	14,0	Max.10,0	**4814**						
	16,0	Max.12,0	**4816**						
	18,0	Max.14,0	**4818**						
	20,0	Max.16,0	**4820**						
	25,0	Max. 21,0	**4825**						
	30,0	Max. 26,0	**4830**						

MFX 1803

Aluminium [AlMg5]
Polished

Stainless steel [A2]
Polished



HAMMERDRIVE | extra large head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
4,8	9,0	4,5-7,0	**18034809**						
[+/-0,08]	11,0	6,5-9,0	**4811**						
	16,0	11,5-13,0	**4816**						
ø 4,9	20,0	15,5-17,0	**4820**						
	25,0	20,5-22,0	**4825**	16,0 [+/-0,4]	2,6 [+/-0,3]	-	-	2.950	4.900
	30,0	25,5-27,0	**4830**						
	35,0	30,5-32,0	**4835**						
	40,0	35,5-37,0	**4840**						
	45,0	40,5-42,0	**4845**						
	50,0	45,5-47,0	**4850**						

Masterfix Closed end rivets

Masterfix Closed end rivets have been specially developed to combine a strong fixing with a water- or air-proof sealing.

Advantages

During setting, the rivet body expands to fill the hole enabling the rivet to withstand pressures up to 35 bar (3500 kPa)

After setting, the mandrel head is 100% retained, providing high resistance to vibration

Air- and waterproof

Higher tensile and shear strengths

Applications

Coach work

Containers

HVAC applications

Shipbuilding industry

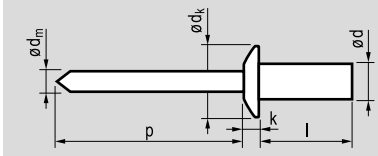
Cladding

Note: to ensure an optimum setting, a correct size of the pre-drilled hole is important with closed end rivets.

MFX 1201

Aluminium [AlMg5]
Polished

Steel
Phosphated



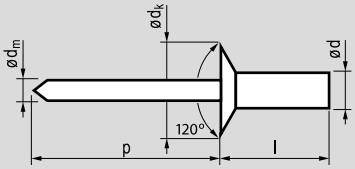
closed end | dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	6,5	0,5-2,0	**12013206**						
[+/-0,08]	8,0	2,0-3,5	**3208**						
	9,5	3,5-5,0	**3209**	6,0 [+/-0,24]	≤1,4	~1,70	≥27	1.250	1.070
Ø 3,3	10,7	5,0-6,5	**3210**						
	12,7	6,5-8,0	**3212**						
4,0	8,0	0,5-3,5	**12014008**						
[+/-0,08]	9,5	3,5-4,5	**4009**						
	11,0	4,5-6,5	**4011**	8,0 [+/-0,29]	≤1,7	~2,18	≥27	2.240	1.700
Ø 4,1	12,7	6,5-8,0	**4012**						
	15,0	8,0-10,5	**4015**						
4,8	8,0	1,0-3,0	**12014808**						
[+/-0,08]	9,5	3,0-4,5	**4809**						
	11,0	4,5-6,0	**4811**						
Ø 4,9	12,5	6,0-7,5	**4812**						
	14,0	7,5-9,0	**4814**	9,5 [+/-0,29]	≤2,0	~2,63	≥27	3.100	2.200
	16,0	9,0-11,0	**4816**						
	18,0	11,0-13,0	**4818**						
	21,0	13,0-16,0	**4821**						
	25,0	16,0-20,0	**4825**						
6,4	12,5	1,5-6,0	**12016412**	12,7 [+/-0,35]	≤2,5	~3,70	≥31	4.900	3.950
[+/-0,11]	16,0	6,0-8,0	**6416**						
Ø 6,5									

MFX 1204

Aluminium [AlMg5]
Polished

Steel
Phosphated



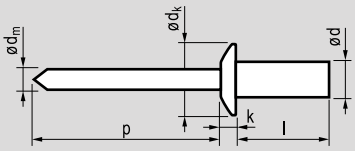
closed end | countersunk head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	7,5	1,5-3,5	**12043207**	6,0 [+0/-0,4]	-	~1,70	≥27	1.245	1.070
[+/-0,08]	9,0	3,0-5,0	**3209**						
	10,5	4,5-6,5	**3210**						
Ø 3,3									
4,0	9,5	3,0-5,0	**12044009**	7,5 [+0/-0,5]	-	~2,20	≥27	2.240	1.710
[+/-0,08]	11,0	4,5-6,5	**4011**						
	12,5	6,0-8,0	**4012**						
Ø 4,1									
4,8	9,5	2,5-4,5	**12044809**	9,0 [+0/-0,5]	-	~2,65	≥27	3.070	2.230
[+/-0,08]	11,0	4,0-6,0	**4811**						
	12,5	5,5-7,5	**4812**						
Ø 4,9	14,0	7,0-9,0	**4814**						
	15,5	8,5-10,5	**4815**						
	19,0	12,0-14,0	**4819**						

MFX 1211

Aluminium [Al99,5]
Polished

Aluminium
Polished



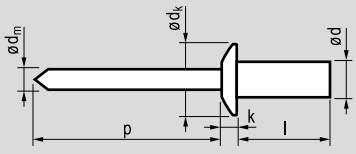
closed end | dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	8,0	0,5-3,5	**12113208**	6,0 [+/-0,24]	≤1,4	~1,80	≥27	490	450
[+/-0,08]	9,5	3,5-5,5	**3209**						
Ø 3,3									
4,0	9,5	0,5-5,0	**12114009**	8,0 [+/-0,29]	≤1,7	~2,20	≥27	820	580
[+/-0,08]	12,5	5,0-8,0	**4012**						
Ø 4,1									
4,8	9,5	1,0-4,5	**12114809**	9,5 [+/-0,29]	≤2,0	~2,65	≥27	1.120	900
[+/-0,08]	11,5	4,5-6,5	**4811**						
	14,5	6,5-9,5	**4814**						
Ø 4,9	18,0	9,5-13,0	**4818**						

MFX 1231

Aluminium [AlMg5]
Polished

Stainless steel [A2]
Polished



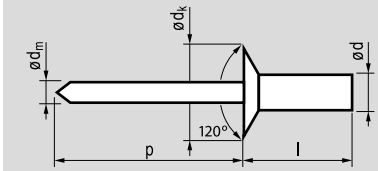
closed end | dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	6,5	0,5-2,0	**12313206**						
[+/-0,08]	8,0	2,0-3,5	**3208**						
	9,5	3,5-5,0	**3209**	6,0 [+/-0,24]	≤1,4	~1,70	≥27	1.250	1.070
Ø 3,3	11,0	5,0-6,5	**3211**						
	12,7	6,5-8,0	**3212**						
4,0	8,0	0,5-3,5	**12314008**						
[+/-0,08]	9,5	3,5-4,5	**4009**	8,0 [+/-0,29]	≤1,7	~2,18	≥27	2.240	1.700
	11,0	4,5-6,5	**4011**						
Ø 4,1	12,7	6,5-8,0	**4012**						
4,8	8,0	1,0-,3,0	**12314808**						
[+/-0,08]	9,5	3,0-4,5	**4809**						
	11,0	4,5-6,0	**4811**						
Ø 4,9	12,5	6,0-7,5	**4812**	9,5 [+/-0,29]	≤2,0	~2,63	≥27	3.100	2.200
	14,0	7,5-9,0	**4814**						
	16,0	9,0-11,0	**4816**						
	18,0	11,0-13,0	**4818**						
	21,0	13,0-16,0	**4821**						

MFX 1234

Aluminium [AlMg5]
Polished

Stainless steel [A2]
Polished



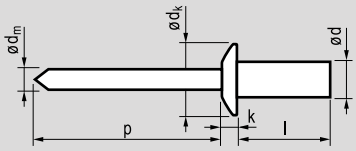
closed end | countersunk head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	9,0	3,0-5,0	**12343209**	6,0	-	~1,70	≥27	1.245	1.070
[+/-0,08]									
Ø 3,3									
4,0	9,5	3,0-5,0	**12344009**	7,5 [+0/-0,5]	-	~2,20	≥27	2.240	1.710
[+/-0,08]	11,0	4,5-6,5	**4011**						
Ø 4,1									
4,8	11,0	4,0-6,0	**12344811**	9,0 [+0/-0,5]	-	~2,63	≥27	3.070	2.230
[+/-0,08]	14,0	7,0-9,0	**4814**						
Ø 4,9	18,0	11,0-13,0	**4818**						

MFX 1241

Steel
Zinc plated

Steel
Zinc plated



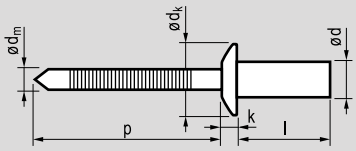
closed end | dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	6,0	0,5-1,5	**12413206**						
[+0,08/-0,10]	8,0	1,5-3,0	**3208**	6,0 [+/-0,24]	1,0 [+/- 0,3]	~1,90	≥27	2.200	1.600
	9,5	3,0-5,0	**3209**						
Ø 3,3	12,0	5,0-7,0	**3212**						
4,0	6,0	0,5-1,5	**12414006**						
[+0,08/-0,10]	8,0	1,5-3,0	**4008**						
	10,0	3,0-5,0	**4010**	8,0 [+/-0,29]	1,4 [+/- 0,3]	~2,30	≥27	2.500	2.300
Ø 4,1	12,0	5,0-6,5	**4012**						
	15,0	6,5-10,5	**4015**						
4,8	8,0	1,0-3,0	**12414808**						
[+0,08/-0,10]	9,5	3,0-5,0	**4809**	9,5 [+/-0,29]	1,7 [+/- 0,3]	~2,90	≥27	3.800	2.900
	12,0	5,0-6,5	**4812**						
Ø 4,9	16,0	6,5-10,5	**4816**						

MFX 1261

Stainless steel [A2]
Polished

Stainless steel [A2]
Polished



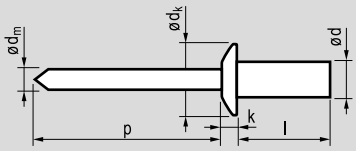
closed end | dome head

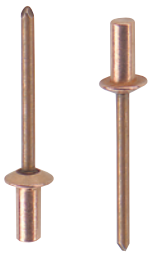
Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	6,0	0,5-1,5	**12613206**	6,0 [+/-0,24]	≤1,4	~1,90	≥27	2.500	2.000
[+0,08/-0,10]	8,0	1,5-3,0	**3208**						
	9,5	3,0-5,0	**3209**						
Ø 3,3	12,0	5,0-7,0	**3212**						
4,0	6,0	0,5-1,5	**12614006**	8,0 [+/-0,29]	≤1,7	~2,30	≥27	4.000	3.000
[+0,08/-0,10]	8,0	1,5-3,0	**4008**						
	9,5	3,0-5,0	**4009**						
Ø 4,1	12,0	5,0-6,5	**4012**						
	16,0	6,5-10,5	**4016**						
4,8	8,0	1,0-3,0	**12614808**	9,5 [+/-0,29]	≤2,0	~2,90	≥27	5.500	4.500
[+0,08/-0,10]	9,5	3,0-5,0	**4809**						
	12,0	5,0-6,5	**4812**						
Ø 4,9	16,0	6,5-10,5	**4816**						
	20,0	10,5-14,0	**4820**						

MFX 1251

Copper
Polished

Steel
Protection layer





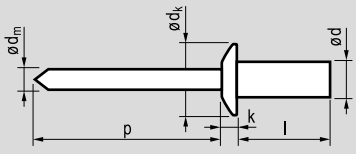
closed end | dome head

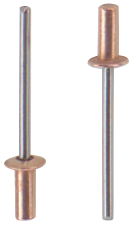
Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	6,5	0,5-1,5	**12513206**	6,0 [+/-0,24]	≤1,4	~1,70	≥27	1.300	850
[+0,08/-0,10]	8,0	1,5-3,0	**3208**						
	9,5	2,5-4,5	**3209**						
Ø 3,3	12,5	4,5-7,5	**3212**						
4,0	8,0	0,5-2,0	**12514008**	8,0 [+/-0,29]	≤1,7	~2,18	≥27	2.000	1.350
[+0,08/-0,10]	10,0	2,0-4,0	**4010**						
Ø 4,1									
4,8	9,5	1,0-2,5	**12514809**	9,5 [+/-0,29]	≤2,0	~2,63	≥27	2.800	1.950
[+0,08/-0,10]	11,5	2,5-4,5	**4811**						
Ø 4,9									

MFX 1281

Copper
Polished

Stainless steel [A2]
Polished





closed end | dome head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	6,5	0,5-1,5	**12813206**						
[+0,08/-0,10]	8,0	1,0-3,0	**3208**	6,0 [+/-0,24]	≤1,4	~1,70	≥27	1.300	850
	9,5	2,5-4,5	**3209**						
Ø 3,3	12,5	5,5-7,5	**3212**						
4,0	8,0	0,5-3,0	**12814008**	8,0 [+/-0,29]	≤1,7	~2,18	≥27	2.000	1.350
[+0,08/-0,10]	10,0	3,0-5,0	**4010**						
Ø 4,1									

Masterfix Masterbulb

The Masterfix Masterbulb is a newcomer in the assortment of standard high strength rivets Masterfix is offering.

The steel as well as the stainless steel Masterbulb rivets forms a very large secondary flange on the back side after setting. This makes this rivet ideal for high strength assembly in thin sheets.

Advantages

High tensile and shear strengthsgh tensile and shear strengths

Permanent mandrel retention, avoids rattling of rest-mandrels

Good hole filling capacity compensates oversized, slotted or misaligned holes

Provides a large back side bearing area

Good spreading of the clamping load

Vibration resistant

No special tooling or “nose piece” is neede

Applications

Automotive industry

Electronics & Telecom industry

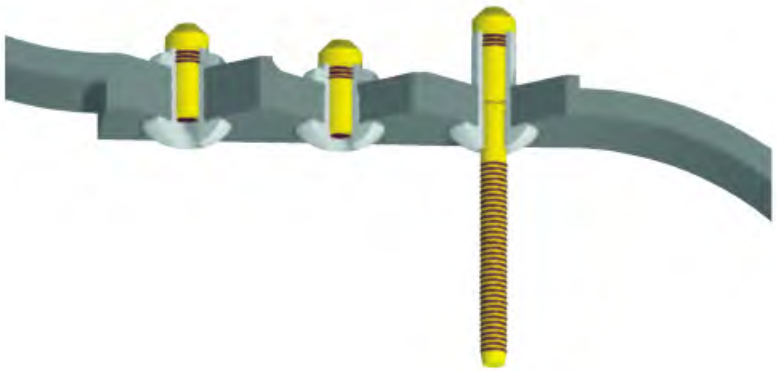
Cabinets and enclosures

White goods

HVAC industry

Construction work

Repair & Service industry

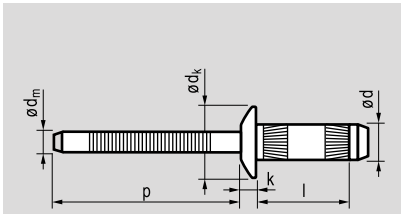


Info

MFX 1611

Stainless steel
Polished

Stainless steel
Polished



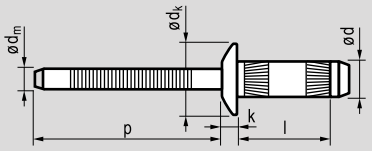
MASTERBULB | high strength | dome head

Ø d	l [+/-0,99]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	7,0	1,0-3,0	**16113207**	6,0 [+/-0,24]	≤1,4	~2,10	≥27	2.000	1.600
[+0,09/-0,15]	9,0	3,0-5,0	**3209**						
	11,0	5,0-7,0	**3211**						
Ø 3,3 [3,4 max]									
4,0	8,0	1,0-3,0	**16114008**	7,8 [+/-024]	≤1,7	~2,60	≥27	4.000	3.700
[+0,09/-0,15]	10,0	3,0-5,0	**4010**						5.200
	12,0	5,0-7,0	**4012**						5.200
Ø 4,1 [4,3 max]									
4,8	9,0	1,5-3,5	**16114809**	9,3 [+/-0,24]	≤2,0	~3,30	≥27	5.000	5.500
[+0,09/-0,15]	12,0	3,5-6,0	**4812**						
	14,0	6,0-8,5	**4814**						
Ø 4,9 [5,1 max]									

MFX 1621

Steel
Zinc plated

Steel
Zinc plated



MASTERBULB | high strength | dome head

Ø d	l [+/-0,99]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
3,2	7,0	1,0-3,0	**16213207**						1.200
[+0,09/-0,15]	9,0	3,0-5,0	**3209**	6,0 [+/-0,24]	≤1,4	~2,10	≥27	1.300	1.700
	11,0	5,0-7,0	**3211**						2.500
Ø 3,3 [3,4 max]									
4,0	8,0	1,0-3,0	**16214008**						3.700
[+0,09/-0,15]	10,0	3,0-5,0	**4010**	7,8 [+/-024]	≤1,7	~2,60	≥27	2.800	5.200
	12,0	5,0-7,0	**4012**						5.200
Ø 4,1 [4,3 max]									
4,8	9,0	1,5-3,5	**16214809**						3.600
[+0,09/-0,15]	12,0	3,5-6,0	**4812**	9,3 [+/-0,24]	≤2,0	~3,10	≥27	3.800	4.200
	14,0	6,0-8,5	**4814**						5.600
Ø 4,9 [5,1 max]									

Masterfix high strength rivets

Masterfix High strength rivets are especially designed for heavy applications, for example in the automotive industry and in the construction industry. In short, everywhere, where high loads are combined with a need for reliability.
High strength rivets are known for their high tensile and shear strengths and mandrel retention capacity.

MASTERLOCK

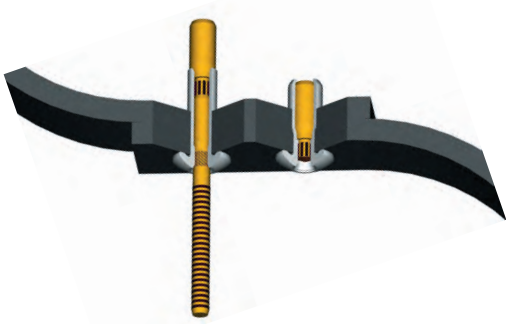
The Masterlock has been engineered to fulfil a market need for a high clamp blind fastener, for thin sheet applications. Large diameter head and broad secondary flange diffuses the load over a large area, ensuring permanent clamp. This unique fastener also offers a tapered hole-seeking tip, which ensures quick and easy installation.

P-LOCK

The blind rivet with a multigrip clamping range and a high tensile and shear strength offers a high resistance to vibrations and a good watertight connection. After setting, the rest mandrel is retained in the body permanently, because of the special mandrel locking system.
To set this rivet no special tooling or “nose piece” on the tool is needed.

Advantages

The special locking mechanism increases the clamping force
After setting, the mandrel is locked permanently
A 100% watertight connection
High resistance to vibrations
Large clamping capacity
No special nose piece needed



Applications

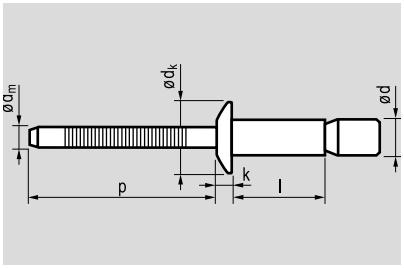
Automotive industry
Containers
Coach works
Truck building
Construction work

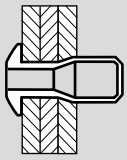
Info

MFX 1791

Steel
Zinc plated

Steel
Zinc plated





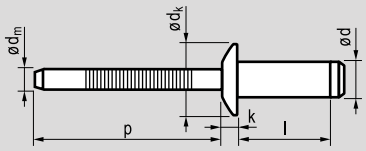
P-LOCK | high strength | dome head

Ø d	l [+/-0,99]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
6,4 [+/-0,11] Ø 6,6 [6,9 max]	14,0 20,0	2,0-9,5 2,0-15,9	**17916414** **6420**	13,0 [+/-0,35]	≤3,1	~4,00	≥27	10.000	11.700

MFX 1471

Steel
Zinc plated

Steel
Zinc plated



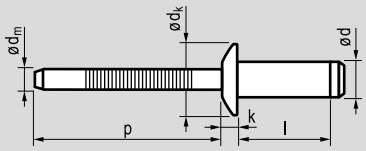
MASTERLOCK | high strength | dome head

Ø d	l [+1/-0,3]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
4,8	9,0	1,5-3,5	**14714809**	9,8 [+/-0,3]	2,2 [+/-0,2]	~3,02	≥32	3.600	min. 3.920 max. 6.270
[+0,11/-0,05]	11,5	3,5-6,0	**4811**						
	14,0	6,0-8,5	**4814**						
Ø 4,9 [5,1 max]	16,5	8,5-11,0	**4816**						
6,4	10,5	2,8-4,8	**14716410**	13,0 [+/-0,3]	3,0 [+/-0,2]	~4,17	≥32	6.600	min. 5.390 max. 11.180
[+0,11/-0,05]	12,5	4,8-6,8	**6412**						
	14,5	6,8-8,8	**6414**						
Ø 6,6 [6,8 max]	16,5	8,8-10,8	**6416**						
	18,5	10,8-12,8	**6418**						
	20,5	12,8-14,8	**6420**						

MFX 1561

Steel
Zinc plated

Steel
Zinc coated



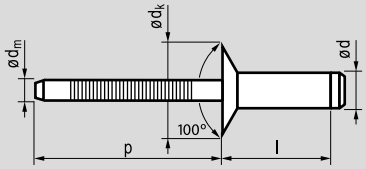
MASTERLOCK Ⅱ | high strength | dome head

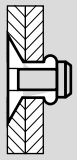
Ø d	l max.		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
6,4	12,5	2,8-4,8	**15616412**						
[+0,2/-0,1]	14,5	4,8-6,8	**6414**						
	16,5	6,8-8,8	**6416**	13,6 max	3,3 max	~4,00	≥25	7.120	11.560
Ø 6,65 [6,90 max]	18,5	8,8-10,8	**6418**						
	20,5	10,8-12,8	**6420**						
	22,5	12,8-14,8	**6422**						

MFX 1474

Steel
Zinc plated

Steel
Zinc plated





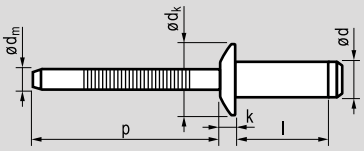
MASTERLOCK | high strength | countersunk head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
6,4	11,5	3,8-5,8	**14746411**						
[+0,11/-0,05]	12,5	4,8-6,8	**6412**						
	13,5	5,8-7,8	**6413**	10,0 [+/-0,3]	2,0 [+/-0,2]	~4,17	≥32	5.490	min. 5.390 max. 10.300
Ø 6,6 [6,8 max]	15,5	7,8-9,8	**6415**						
	17,5	9,8-11,8	**6417**						
	19,5	11,8-13,8	**6419**						

MFX 1511

Aluminium [AlMg2,5]
Polished

Aluminium [AlMg6,0]
Polished



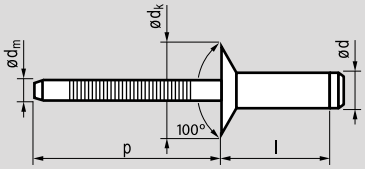
MASTERLOCK | high strength | dome head

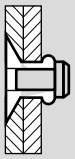
Ø d	l [+/-0,3]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
6,4	10,5	2,8-4,8	**15116410**						
[+0,11/-0,05]	12,5	4,8-6,8	**6412**						
	14,5	6,8-8,8	**6414**	13,0 [+0/-0,3]	3,0 [+/-0,2]	~4,17	≥32	3.500	5.000
Ø 6,6 [6,8 max]	16,5	8,8-10,8	**6416**						
	18,5	10,8-12,8	**6418**						
	20,5	12,8-14,8	**6420**						

MFX 1514

Aluminium [AlMg2,5]
Polished

Aluminium [AlMg6,0]
Polished





MASTERLOCK | high strength | countersunk head

Ø d	l [+1/-0,2]		Item nr.	Ø d_k	k	Ø d_m	p		
[mm]	[mm]	[mm]		[mm]	[mm]	[mm]	[mm]	[N]	[N]
6,4	11,5	3,8-5,8	**15146411**						
[+0,11/-0,05]	13,5	5,8-7,8	**6413**						
	15,5	7,8-9,8	**6415**	10,0 [+0/-0,3]	2,0 [+/-0,2]	~4,17	≥32	3.000	4.000
Ø 6,6 [6,8 max]	17,5	9,8-11,8	**6417**						
	18,5	11,8-13,8	**6418**						
	21,5	13,8-15,8	**6421**						

Hand tools

MASTERFIX®

Masterfix Hand tools for blind rivets

Distinguish themselves by

Wide choice

High professional quality

Competitive price levels

Continuous product development and innovations

Complete supply of tools with full set of nose pieces

Wide selection of service packs (tool-sets)

The table below shows which hand tool we recommend for particular rivet sizes and materials.
In case of questions we will of course be pleased to give you further advice.

Recommended capacity

Additional option

	Ø 2.4			Ø 3.0 - 3.2			Ø 4.0			Ø 4.8 - 5.0			Ø 6.0 - 6.4				Ø 8.0
	Aluminium	Steel	Stainl. steel	Aluminium	Steel	Stainl. steel	Aluminium	Steel	Stainl. steel	Aluminium	Steel	Stainl. steel	Aluminium	Steel	Stainl. steel	P-Lock steel	Stainl. steel
MFX 150	■	■	■	■	■	■	■	■	■	■	■						
MFX 10000	■	■	■	■	■	■	■	■		■							
MFX 80				■	■	■	■	■	■	■	■	■	■	■			
MFX 260				■	■	■	■	■	■	■	■	■	■	■	■		
MFX 280							■	■	■	■	■	■	■	■	■	■	■

Info

Hand tools for blind rivets

MFX 150A item nr. 43105150A

Professional blind riveting tool for small and light assembly work.

Capacity	ø2,4 - 5,0 mm
Weight	0,6 kg
Length	250 mm
Body material	Aluminium
Lever material	Steel
Equipment	Nose pieces ø3.0 - 5.0 mm
Also available	As set with assorted PLIA rivets item nr. 43105150AS

MFX 150B item nr. 43105150B

Professional blind riveting tool for small and light assembly work.
Equipped with an opening spring.

Capacity	ø2,4 - 5,0 mm
Weight	0,6 kg
Length	250 mm
Body material	Aluminium
Lever material	Steel
Equipment	Nose pieces ø3.0 - 5.0 mm
Also available	As set with assorted PLIA rivets item nr. 43105150BS

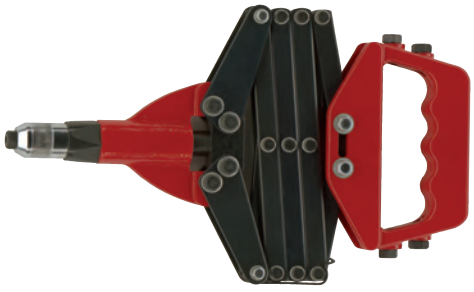
Hand tools for blind rivets

MFX 10000 item nr. 43105100

Practical blind riveting tool for small & light assembly work.
The front sleeve can be positioned horizontally as well as vertically.

Capacity	ø2,4 - 5,0 mm
Weight	0,85 kg
Length	300 mm
Body material	Aluminium
Lever material	Steel
Equipment	Nose pieces ø2.4 - 5.0 mm

MFX 80 item nr. 43106080



Improved Lazy Tong blind riveting tool for "one" handed setting. With reinforced links and capacity increase to 6,4 mm rivets in steel. This tool requires only minimal physical effort.

Capacity	ø3,0 - 6,4 mm
Weight	2,4 kg
Length	310 mm (folded)
Body material	Aluminium
Lever material	Steel
Equipment	Nose pieces ø3.0 - 6.4 mm

Hand tools for blind rivets

MFX 260 item nr. 43106260

Heavy duty long arm riveter with adjustable front sleeve, allowing the breaking point to be set in the most ideal position.

Capacity	ø3,0 - 6,4 mm
Weight	1,9 kg
Length	520 mm
Body material	ABS (plastic) with steel parts
Lever material	Steel
Equipment	Nose pieces ø3.0 - 6.4 mm

MFX 280 item nr. 43108280

Heavy duty long arm riviter with adjustable levers for easier setting of large rivets. The adjustible front sleeve, allows the breaking point to be set in the most ideal position.

Capacity	ø4,0 - 8,0 mm ø4,8 - 6,5 mm P-LOCK, Magna Lok® & Monobolt®
Weight	2,6 kg
Length	660 mm max.
Body material	ABS (plastic) with steel parts
Lever material	Steel
Equipment	- Nose pieces ø 4,0 - 6,4 mm - Monobolt® ø 4,8 - 6,4 mm - Magna-Lok® ø 4,8 - 6,5 mm

Power tools

MASTERFIX®

Masterfix EZM and XGRIP Power tools for blind rivets

XGRIP R50H

The hydraulic/pneumatic XGRIP tool is moulded in ABS (a glass fibre reinforced synthetic material) giving it high impact resistance with minimum weight. This XGRIP tools is equipped with a pressure relief valve which is operated as soon as the pressure exceeds 7.5 Bar.
This tool has an oil level indicator to show you when oil needs to be added.

EZM 1000 / EZM 2000

The new generation EZMaster hydraulic/pneumatic tools combine strength and reliability with a sleek, attractive and ergonomically sound design and are very well suited for continuous use.
The hydraulic 'house' is made of ABS and the pneumatic 'house' is made of a revolutionary new synthetic material with the strength and rigidity of cast metals or alloys. The tool is equipped with a pressure relief valve and the high-tech sealing makes this tool 'oil service free'.

The tools are equipped with an easy to use vacuum retraction system which is activated by simply turning the mandrel collection cup.
Position 1 (1st click) = mandrel collector is locked onto the tool - no retraction yet.
Position 2 (2nd click) = vacuum retraction is activated.

The collection cup is equipped with a silicon bottom providing an escape for excess air as well as a welcome sound reduction when the rest mandrel is released into the cup.

All Masterfix Power tools meet the current CE-standard.

The table below shows which XGRIP tool we recommend for a particular rivet size and material.

Recommended capacity

	Ø 2.4			Ø 3.0 - 3.2			Ø 4.0			Ø 4.8 - 5.0			Ø 6.0 - 6.4		
	Aluminium	Steel	Stainl. steel	Aluminium	Steel	Stainl. steel	Aluminium	Steel	Stainl. steel	Aluminium	Steel	Stainl. steel	Aluminium	Steel	Stainl. steel
XGRIP R50H	■	■	■	■	■	■	■	■	■	■	■				
EZM 1000				■	■	■	■	■	■	■	■	■			
EZM 2000							■	■	■	■	■	■	■	■	

Info

Power tools for blind rivets

X-GRIP R50H item nr. 45105R50HD

Light weight hydraulic/pneumatic blind riveting tool without extraction, with mandrel collector and suspension bracket.

Capacity	ø2,4 - 5,0 mm
Weight	1,3 kg
Dimensions	253 x 284 mm
Stroke	14,0 mm
Pressure required	5 - 7 Bar
Traction power(6 bar)	8 kN
Equipment	Nose pieces ø 2,4 - 5,0 mm

EZM 1000 item nr. 451EZM1000

New hydraulic/pneumatic blind riveting tool with extraction, mandrel collector and suspension bracket.

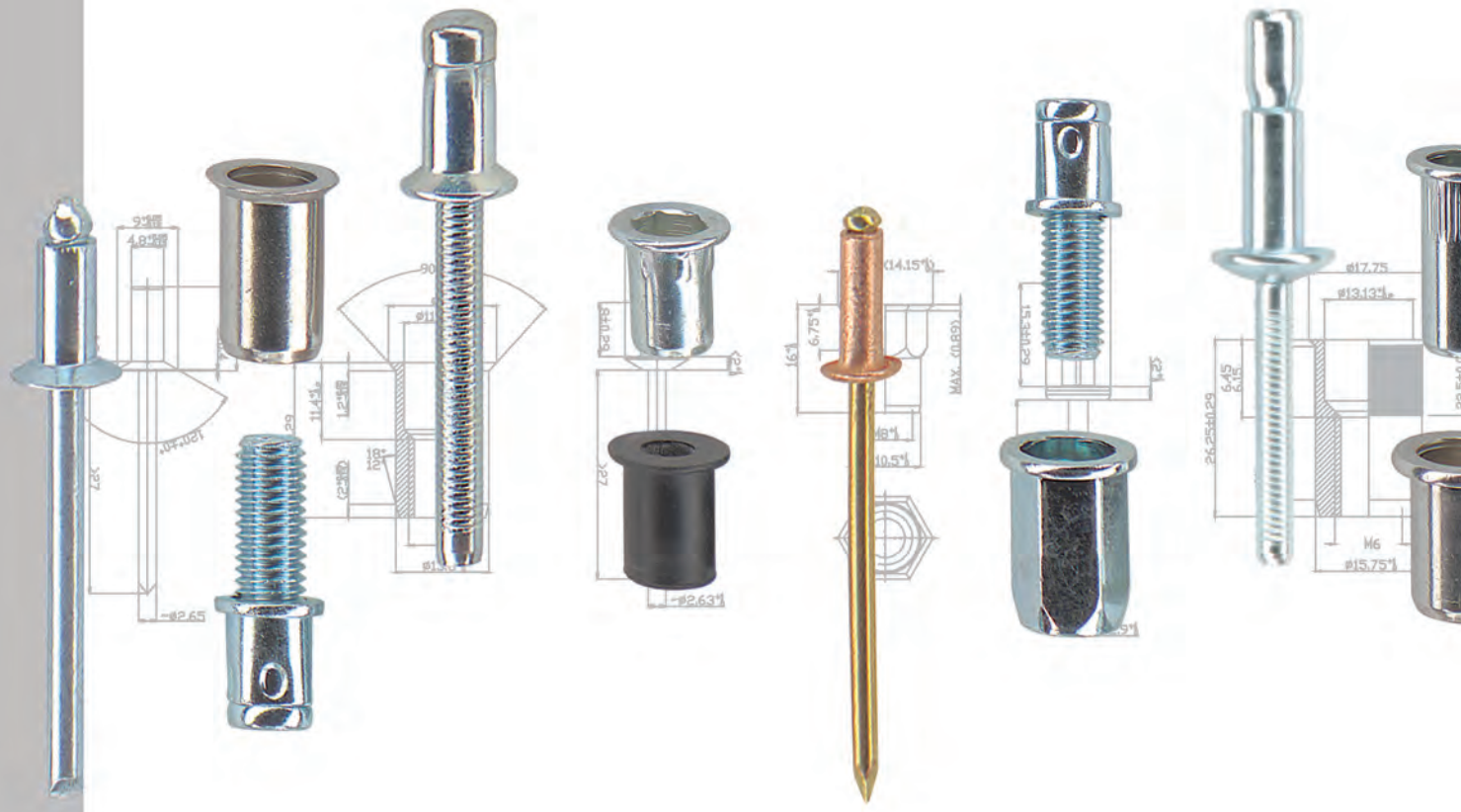
Capacity	ø3,0 - 5,0 mm
Weight	1,25 kg
Dimensions	264 x 272 x 102 mm
Stroke	17,0 mm
Pressure required	5 - 7 Bar
Traction power(6 bar)	7,3 kN (6 bar)
Equipment	Nose pieces ø 3,0 - 5,0 mm

Power tools for blind rivets

EZM 2000 item nr. 451EZM2000

New hydraulic/pneumatic blind riveting tool with extraction, mandrel collector and suspension bracket.

Capacity	ø4,0 - 6,4 mm
Weight	1,65 kg
Dimensions	275 x 272 x 125 mm
Stroke	21,0 mm
Pressure required	5 - 7 Bar
Traction power(6 bar)	12,5 kN (6 bar)
Equipment	Nose pieces ø 4,0 - 6,4 mm

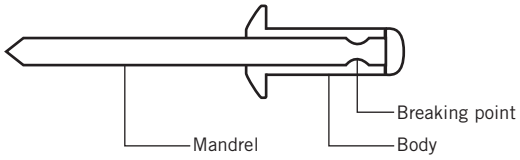


Technical info

MASTERFIX®

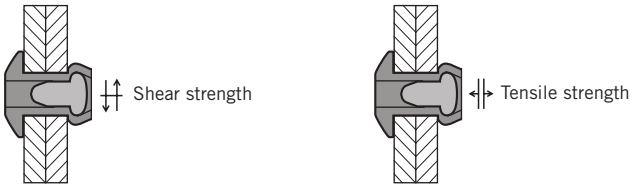
Blind rivet breaking point

The rivet is made of two parts namely, the body and the mandrel. The body is deformed when the rivet is set and it is this part which clamps the materials together. The function of the mandrel is to deform the body of the rivet. The mandrel is therefore always stronger than the body. The mandrel breaks off at its specific breaking point. The breaking point ensures that the mandrel breaks off at the right moment so that the body is correctly deformed. The breaking load can be adjusted so that the mandrel breaks at a sooner or a later point of time.

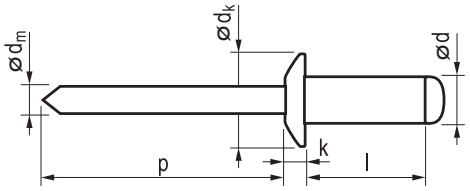


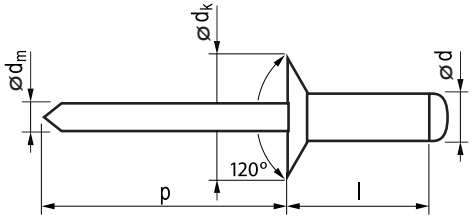
Tensile and shear strength

The tensile strength is the maximum force the rivet, rivet nut or rivet bolt can bear lengthways (see arrows) before it gives out. The tensile strength is obtained through tests and is always the smallest average value. The shear strength is the maximum force the rivet, rivet nut or rivet bolt can bear vertical to its length (see arrows) before it gives out. The shear strength is obtained through tests and is always the smallest average value. By changing the breaking point, the shear strength will be increased or decreased. Both tensile and shear strength are expressed in Newton (1 kg = 10 N).



Dimensioning rivets

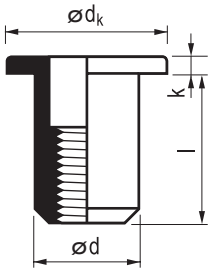


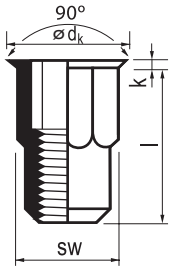


Standard rivet (all sizes in mm)

Ø d = Rivet body diameter
Ø d_k = Head diameter
Ø d_m = Mandrel diameter
k = Head height
l = Rivet body length
p = Mandrel length

Dimensioning rivet nuts



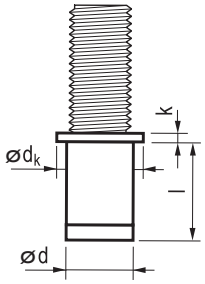


Standard rivet nut (all sizes in mm)

Ø d = Rivet nut body diameter
Ø d_k = Head diameter
k = Head height
l = Rivet nut body length
sw = Key size

Technical details

Dimensioning rivet bolts



Standard rivet bolt (all sizes in mm)

Ø d = Rivet nut body diameter

Ø d_k = Head diameter

k = Head height

l = Rivet nut body length

Technical details

Aluminium AL 99,5

Low weight

Easy to deform

Highly electrical and warmth conductive

Aluminium alloys AlMg

Solid and strong - easy to polish

If the degree of Mg increases, the strength of the rivet increases and the deformability decreases

Steel

Suitable for heavy constructions

Easy to deform

Easy to coat (e.g. with anti-corrosion coating)

Stainless steel

Highly resistant to corrosion

Suitable for heavy constructions

A4 has a higher resistance to acids than A2

Copper

Highly electrical and warmth conductive

Easy to deform

Suitable for soldering

Material features

Contact corrosion

When different metals come in contact with each other, contact corrosion will arise. The table below shows how the different materials combine.

Material rivet body	Material to be connected			
	Aluminium	Copper	Steel	Stainl.steel
Aluminium	++	--	+	+
Copper	--	++	--	+
Steel	+	--	++	++
Stainl. steel	+	+	++	++
i Monell"	--	+	++	+

++ very good I + good I - moderate I -- bad

Coatings

Corrosion can never be reduced to 0%. However, coatings can help to reduce the chance of corrosion or delay corrosion:

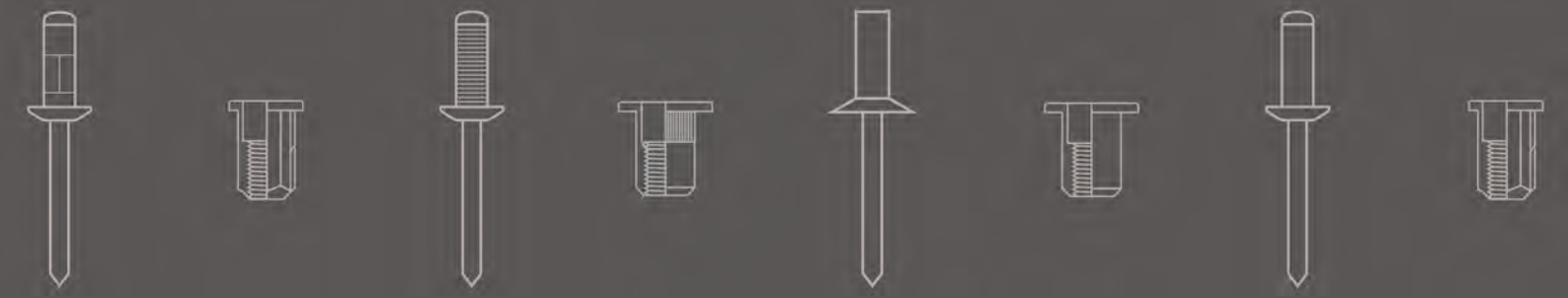
Painting

2-Components painting is possible in many colors. All RAL-colours can be delivered on request.

Zinc plating

This is a coating obtained through electrolysis and consists of a Zinc-iron alloy. This coating is characterized by a high resistance to wear and tear.

Material features



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