

STANLEY®
Engineered Fastening



SLOVAKIA s.r.o.

INTOOL



Blind Rivets, Rivet Nuts & Tooling
Catalogue

MASTERFIX®



The European Source for Distributor Fastening Solutions

Since 1984, Masterfix® has been a trusted name in the European market, with blind rivets, blind rivet nuts, and tools finding their way into thousands of industrial applications across the continent. Despite changes in ownership over the decades, the Masterfix® brand has consistently remained a strong and competitive solution for European industries.

Today, Masterfix® operates as part of Stanley® Engineered Fastening, a division of Stanley Black & Decker - a global leader with over 60,000 employees. This strategic ownership grants Masterfix® access to unparalleled resources in engineering and innovation, setting it apart from smaller competitors. As a result, Masterfix® offers industrial users unmatched expertise along with the added benefit of compatibility with installation tools from renowned brands like DEWALT™.

Masterfix® product line serves as a valuable complement to the Stanley Engineered Fastening portfolio, enhancing the company’s market-leading

position in engineered fastening solutions for industrial applications alongside the premium brands such as AVDEL® and POP®. This strategic approach enables Stanley® Engineered Fastening to meet diverse customer needs across various quality and performance requirements.

With a strategic focus on the European distribution market, Masterfix® combines its rich heritage with reliability to deliver products that meet the evolving needs of modern manufacturing and assembly processes. Experience the perfect blend of accessibility, versatility and performance with Masterfix® fastening solutions in the European market.

What’s Inside This Catalogue

MASTERFIX® BLIND RIVETS

- MFX® Open End Rivets
- MFX® Closed End Rivets
- MFX® Plia™ Multigrip Rivets
- MFX® -Peel Rivets
- MFX® -Groove Rivets
- MFX® -Tri Rivets
- MFX® -Hammerdrive™ Rivets
- MFX® -Bulb Rivets
- MFX® -Lock Rivets
- MFX® -P-Lock Rivets

MASTERFIX® BLIND RIVET NUTS

- Mastergrip Blind Rivet Nuts
- Masterbolt Bind Rivet Nuts
- MFX® Rubnut™ Blind Rivet Nuts

INSTALLATION TOOLS FROM STANLEY BLACK & DECKER

- POP® Hand Tools
- MFX® Hydro-Pneumatic Tools
- DEWALT™ Battery Tools



Get to Know the Stanley Black & Decker Industrial Brands



The European distributor market fastening solutions

- Blind rivets
- Blind rivet nuts
- Hand tools & hydro pneumatic tools



Engineered fasteners for specialized applications

- Specialist & structural blind fasteners
- Lockbolts
- Speed fastening
- Avseal® sealing plugs



Premium engineered blind rivets and rivet nuts

- Open & closed-end rivets
- VGrip® rivets
- Popnut®
- Hand tools



Worldwide manufacturer of power tools and hand tools for the construction, manufacturing and woodworking industries, as well as home craftspeople.

Masterfix® timeline

1984 2004 2010 2019 2023

Masterfix® is founded in the Netherlands. It quickly starts expansion in Europe, opening branches in Germany and Spain.

Masterfix® is acquired by Emhart Teknologies.

Black & Decker buys Emhart Teknologies. In March of this year, Stanley Works merges with Black and Decker, becoming Stanley Black & Decker.

Stanley Black & Decker renames Emhart Teknologies to Stanley Engineered Fastening and undergoes new branding and brand identity.

A new set of hand tools to install Masterfix® fasteners is launched under the POP® brand.



By choosing Masterfix®, you’re not just selecting a fastener – you’re tapping into a legacy of engineering reliability, backed by one of the most trusted names in the industry.

Blind Rivets



Blind Rivet Data Sheets

Product Type	Material	Head Style	Series	Page
MFX® Open End	Aluminium/Steel	Dome Head	1031 Series	9
MFX® Open End	Aluminium/Steel	Large Head	1032 Series	12
MFX® Open End	Aluminium/Steel	Extra Large Head	1033 Series	13
MFX® Open End	Aluminium/Steel	Countersunk Head	1034 Series	14
MFX® Open End	Aluminium/Aluminium	Dome Head	1021 Series	15
MFX® Open End	Aluminium/Stainless Steel	Dome Head	1071 Series	16
MFX® Open End	Steel/Steel	Dome Head	1041 Series	17
MFX® Open End	Steel/Steel	Countersunk Head	1044 Series	19
MFX® Open End	Stainless Steel/Stainless Steel	Dome Head	1051 Series	20
MFX® Open End	Stainless Steel/Stainless Steel	Large Head	1052 Series	21
MFX® Open End	Stainless Steel/Stainless Steel	Countersunk Head	1054 Series	21
MFX® Open End	A4 Stainless Steel/A4 Stainless Steel	Dome Head	1541 Series	22
MFX® Open End	Copper/Steel	Dome Head	1101 Series	23
MFX® Open End	Copper/Bronze	Dome Head	1851 Series	23
MFX® Closed End	Aluminium/Steel	Dome Head	1201 Series	24
MFX® Closed End	Aluminium/Steel	Countersunk Head	1204 Series	25
MFX® Closed End	Aluminium/Aluminium	Dome Head	1211 Series	26
MFX® Closed End	Aluminium/Stainless Steel	Dome Head	1231 Series	27
MFX® Closed End	Aluminium/Stainless Steel	Countersunk Head	1234 Series	27
MFX® Closed End	Steel/Steel	Dome Head	1241 Series	28
MFX® Closed End	Stainless Steel/Stainless Steel	Dome Head	1261 Series	29
MFX® Closed End	Copper/Steel	Dome Head	1251 Series	30
MFX® Closed End	Copper/Stainless Steel	Dome Head	1281 Series	30
MFX® Plia™ Multigrip	Aluminium/Steel	Dome Head	1001 Series	31
MFX® Plia™ Multigrip	Aluminium/Steel	Large Head	1002 Series	32
MFX® Plia™ Multigrip	Aluminium/Steel	Extra Large Head	1003 Series	33
MFX® Plia™ Multigrip	Aluminium/Steel	Countersunk Head	1004 Series	34
MFX® Plia™ Multigrip	Aluminium/Steel (White paint)	Dome Head	1171 Series	35
MFX® Plia™ Multigrip	Aluminium/Steel (Black paint)	Dome Head	1181 Series	36
MFX® Plia™ Multigrip	Aluminium/Stainless Steel	Dome Head	1441 Series	37
MFX® Plia™ Multigrip	Aluminium/Stainless Steel	Extra Large Head	1443 Series	38
MFX® Plia™ Multigrip	Aluminium/Stainless Steel	Countersunk Head	1444 Series	38
MFX® Plia™ Multigrip	Steel/Steel	Dome Head	1461 Series	39
MFX® Plia™ Multigrip	Stainless Steel/Stainless Steel	Dome Head	1451 Series	39
MFX®-Peel	Aluminium/Steel	Dome Head	1301 Series	40
MFX®-Groove	Aluminium/Steel	Dome Head	1601 Series	41
MFX®-Tri	Aluminium/Aluminium	Dome Head	1361 Series	41
MFX® Hammerdrive™	Aluminium/Stainless Steel	Extra Large Head	1803 Series	42
MFX®-Bulb	Steel/Steel	Dome Head	1621 Series	43
MFX®-Bulb	Stainless Steel/Stainless Steel	Dome Head	1611 Series	43
MFX®-Lock	Steel/Steel	Dome Head	1471 Series	44
MFX®-Lock	Steel/Steel	Countersunk Head	1474 Series	44
MFX®-P-Lock	Steel/Steel	Dome Head	1761 Series	45

Guide To Data Tables

 Ø 2.6 max	 [mm]	 [N]	 [N]
Hole size in the application	Grip range for the rivet	Single shear strength of rivet	Tensile strength of rivet

Performance

For reliable fastening, Masterfix® blind rivets should be installed with the recommended placing tools shown in this brochure. (Note that MFX® Hammerdrive™ rivets are installed with a hammer.)

The values in this brochure are for the strength of the installed rivet as it fails either in single-shear or in tension. This data is determined with representative rivet samples over multiple tests and represents the typical performance of the rivet.

Strength testing is conducted in hardened steel plates equating to the maximum grip thickness for the particular rivet. Please note that application joint materials may be weaker than the installed rivet, so practical testing of the fastened application by the end-user is always recommended.

Open End, Closed End & Plia™ Rivets

MFX® Open End Rivets

Standard open end rivet available in a variety of materials and combinations.

Key features and benefits

- Cost effective
- Quick and easy installation



Specifications

Sizes: 2.4mm – 6.4mm

Material: Aluminium, Steel, Stainless Steel, Copper

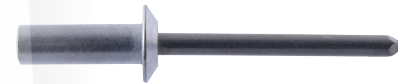
Head Style: Dome, Large Head, Extra Large Head, Countersunk

MFX® Closed End Rivets

Blind breakstem rivet designed for applications which require water tightness.

Key features and benefits

- Water and air tight
- Higher tensile and shear strengths
- 100% mandrel head retention



Specifications

Sizes: 3.2mm – 6.4mm

Material: Aluminium, Steel, Stainless Steel, Copper

Head Style: Dome, Countersunk

MFX® Plia™ Multigrip Rivets

MFX® Plia™ multigrip rivets offer several advantages over standard blind open end rivets.

Key features and benefits

- Offers a wider grip range than standard open end rivets, meaning fewer part numbers needed in stock
- Forms a larger bulb on the blind side spreading the clamping load over a wide area
- Mandrel head retained, providing vibration resistance
- Stainless steel Plia™ with grooved mandrel for extra grip on the jaws



Specifications

Sizes: 3mm – 4.8mm

Material: Aluminium, Steel, Stainless Steel

Head Style: Dome, Large head, Extra large head, Countersunk

Speciality Blind Rivets

MFX®-Peel Rivets

On setting, the body of the MFX®-Peel rivet 'peels' into 4 sections to fasten the application pieces together.

Key features and benefits

- Ideal for joining softer and more brittle materials such as plastics
- Depending on the application, the mandrel head may remain or be ejected after setting



Specifications

Sizes: 3.2mm - 4.8mm

Material: Aluminium

Head Style: Dome

MFX®-Groove Rivets

MFX®-Groove rivets provide a strong connection into dense materials like wood and plastics.

Key features and benefits

- Designed to be used in applications with no through hole
- Provide a strong connection into dense materials such as wood or plastics, or attaching metal to wood



Specifications

Sizes: 3.2mm - 4.8mm

Material: Aluminium

Head Style: Dome

MFX®-Tri Rivets

The MFX®-Tri rivet is uniquely constructed. During setting, the rivet body splits to form 3 folded legs to spread the load, preventing application material from being damaged.

Key features and benefits

- Large blind side bearing area, ideal for fastening soft, fragile materials



Specifications

Sizes: 4.0mm - 4.8mm

Material: Aluminium

Head Style: Dome head

MFX®-Hammerdrive™ Rivets

The MFX®-Hammerdrive™ rivet is a large headed rivet suitable for use in assembly applications such as roofing, sealing profiles and setting to brick and concrete.

Key features and benefits

- Easy installation
- No specialist equipment required
- Tamper resistant



Specifications

Sizes: 4.8mm

Material: Aluminium

Head Style: Extra large head

High Strength Blind Rivets

MFX®-Bulb Rivets

The MFX®-Bulb range of rivets form a large bulb setting on the blindside, making them ideal for thin sheet assembly.

Key features and benefits

- High tensile and shear strengths
- Permanent mandrel retention avoids rattling
- Provides a large blind side bearing area



Specifications

Sizes: 3.2mm - 4.8mm
Material: Steel, Stainless Steel
Head Style: Dome

MFX®-Lock Rivets

The MFX®-Lock rivet is ideal for high strength, thin sheet applications.

Key features and benefits

- High shear and tensile strength
- Large blindside bearing area
- Tapered tip for ease of installation



Specifications

Sizes: 4.8-6.4mm
Material: Steel
Head Style: Dome, Countersunk

MFX® P-Lock Rivets

The MFX® P-lock rivet is a high strength multi-grip rivet with a special locking mandrel to ensure stem retention after setting.

Key features and benefits

- High tensile and shear strengths
- Wide grip range
- High vibration resistance

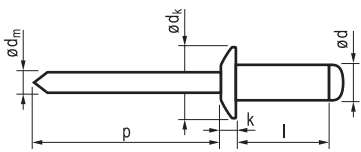


Specifications

Sizes: 6.4mm
Material: Steel
Head Style: Dome

1031 Series

MFX® Open End | Dome head

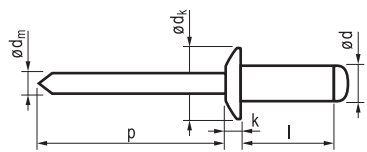


-  Aluminium - Polished
[AlMg2.5 Ø3 - 3.2mm] - [AlMg3.5 Ø2.4, 4.0mm]
-  Steel - Zinc plated

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
2.4 [2.48 max]	4.0	0.5-2.0	10312404	5.0	0.9	1.47	25	500	300
 Ø 2.6 max	6.0	2.0-4.0	2406						
	8.0	4.0-6.0	2408						
	10.0	6.0-8.0	2410						
3.0 [3.08 max]	4.0	0.5-1.5	10313004	6.3	1.1	1.8	25	550	400
 Ø 3.2 max	6.0	1.5-3.5	3006						
	8.0	3.5-5.0	3008						
	10.0	5.0-7.0	3010						
	12.0	7.0-9.0	3012						
	14.0	9.0-11.0	3014						
	16.0	11.0-13.0	3016						
3.2 [3.28 max]	4.0	0.5-1.5	10313204	6.3	1.1	1.85	25	700	500
 Ø 3.4 max	6.0	1.5-3.5	3206						
	8.0	3.5-5.0	3208						
	10.0	5.0-7.0	3210						
	12.0	7.0-9.0	3212						
	14.0	9.0-11.0	3214						
	16.0	11.0-13.0	3216						
	18.0	13.0-15.0	3218						
	20.0	15.0-17.0	3220						
4.0 [4.08 max]	6.0	1.0-3.0	10314006	8.0	1.4	2.25	27	1600	1200
 Ø 4.2 max	8.0	3.0-5.0	4008						
	10.0	5.0-6.5	4010						
	12.0	6.5-8.5	4012						
	14.0	8.5-10.5	4014						
	16.0	8.5-12.5	4016						
	18.0	12.5-14.5	4018						
	20.0	12.5-16.5	4020						
	23.0	15.5-19.5	4023						
	25.0	16.5-21.0	4025						

1031 Series

MFX® Open End | Dome head



Aluminium - Polished
[AlMg3.5]

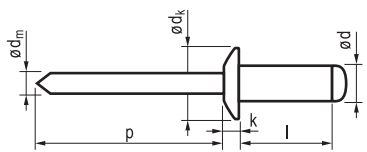


Steel - Zinc plated

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
4.8 [4.88 max]	6.0	1.5-2.5	10314806	9.5	1.5	2.73	27	2230	1690
	8.0	2.5-4.0	4808						
	10.0	4.0-6.0	4810						
	12.0	6.0-8.0	4812						
	14.0	8.0-10.0	4814						
	16.0	8.0-12.0	4816						
	18.0	12.0-14.0	4818						
	20.0	12.0-15.0	4820						
	22.0	14.0-17.0	4822						
	25.0	15.0-20.0	4825						
	28.0	18.0-23.0	4828						
	30.0	20.0-25.0	4830						
	35.0	25.0-30.0	4835						
	40.0	30.0-35.0	4840						
5.0 [5.08 max]	6.0	1.5-2.5	10315006	9.5	1.5	2.73	27	2500	2000
	8.0	2.5-4.0	5008						
	10.0	4.0-6.0	5010						
	12.0	6.0-8.0	5012						
	14.0	8.0-10.0	5014						
	16.0	8.0-12.0	5016						
	18.0	10.0-14.0	5018						
	21.0	13.0-16.0	5021						
	25.0	15.0-20.0	5025						
	27.0	17.0-22.0	5027						
	30.0	20.0-25.0	5030						
	35.0	25.0-30.0	5035						
	40.0	30.0-35.0	5040						
6.0 [6.08 max]	8.0	2.0-3.0	10316008	12.0	2.0	3.29	27	3900	3000
	10.0	3.0-5.0	6010						
	12.0	5.0-7.0	6012						
	14.0	7.0-9.0	6014						
	16.0	7.0-11.0	6016						
	18.0	11.0-13.0	6018						
	22.0	13.0-17.0	6022						

1031 Series

MFX® Open End | Dome head



Aluminium - Polished
[AlMg3.5]

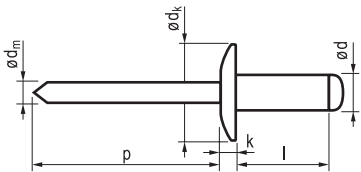
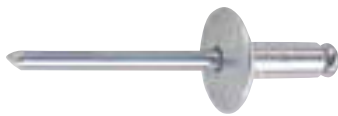


Steel - Zinc plated

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
6.0 [6.08 max]	26.0	16.0-20.0	10316026	12.0	2.0	3.29	27	3900	3000
 Ø 6.2 max	30.0	19.0-24.0	6030						
6.4 [6.48 max]	10.0	2.0-4.0	10316410	13.0	2.2	3.75	27	4090	3120
	12.0	4.0-6.0	6412						
 Ø 6.6 max	15.0	7.0-9.0	6415						
	18.0	10.0-12.0	6418						
	22.0	11.0-16.0	6422						
	26.0	14.0-19.0	6426						
	30.0	18.0-23.0	6430						

1032 Series

MFX® Open End | Large head

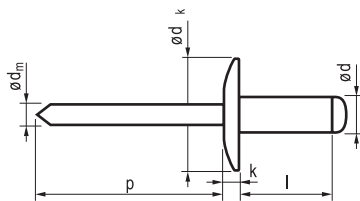
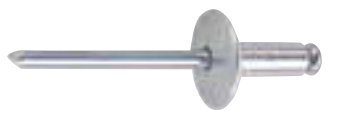


- Aluminium - Polished
[AlMg2.5 Ø 3.2mm] - [AlMg3.5 Ø 4.0-5.0mm]
- Steel - Zinc plated

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	6.0	1.5-3.5	10323206	9.75	1.4	1.85	25	700	500
 Ø 3.4 max	8.0	3.5-5.0	3208						
	10.0	5.0-7.0	3210						
	12.0	7.0-9.0	3212						
4.0 [4.08 max]	6.0	1.0-3.0	10324006	12.0	1.7	2.25	27	1600	1200
 Ø 4.2 max	8.0	3.0-5.0	4008						
	10.0	5.0-6.5	4010						
	12.0	6.5-8.5	4012						
	14.0	8.5-10.5	4014						
	16.0	10.5-12.5	4016						
4.8 [4.88 max]	8.0	2.5-4.0	10324808	14.0	1.8	2.73	27	2230	1690
 Ø 5.0 max	10.0	4.0-6.0	4810						
	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						
	20.0	12.0-15.0	4820						
	22.0	12.0-17.0	4822						
	24.0	14.0-19.0	4824						
	26.0	16.0-21.0	4826						
	28.0	18.0-23.0	4828						
	30.0	20.0-25.0	4830						
	35.0	25.0-30.0	4835						
5.0 [5.08 max]	8.0	2.5-4.0	10325008	14.0	1.8	2.73	27	2500	2000
 Ø 5.2 max	10.0	4.0-6.0	5010						
	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						
	21.0	12.0-16.0	5021						
	24.0	14.0-19.0	5024						

1033 Series

MFX® Open End | Extra large head

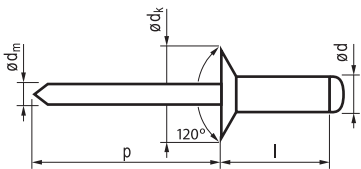


- Aluminium - Polished
[AlMg3.5]
- Steel - Zinc plated

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
4.8 [4.88 max]	10.0	4.0-6.0	10334810	16.0	2.0	2.73	27	2230	1690
 Ø 5.0 max	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						
	20.0	12.0-15.0	4820						
	22.0	12.0-17.0	4822						
	24.0	14.0-19.0	4824						
	26.0	16.0-21.0	4826						

1034 Series

MFX® Open End | Countersunk head



Aluminium - Polished
[AlMg2.5 ø3.0-3.2] - [AlMg3.5 ø2.4, 4.0-5.0]

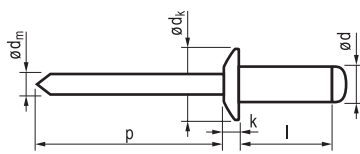


Steel - Zinc plated

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
2.4 [2.48 max]	6.0	2.0-4.0	10342406	5.0	-	1.47	25	500	300
 Ø 2.6 max	8.0	4.0-6.0	2408						
3.0 [3.08 max]	6.0	2.0-3.5	10343006	6.0	-	1.80	25	550	400
 Ø 3.2 max	8.0	3.5-5.0	3008						
	10.0	5.0-7.0	3010						
	12.0	7.0-9.0	3012						
3.2 [3.28 max]	6.0	2.0-3.5	10343206	6.0	-	1.85	25	700	500
 Ø 3.4 max	8.0	3.5-5.0	3208						
	10.0	5.0-7.0	3210						
	12.0	7.0-9.0	3212						
	14.0	9.0-11.0	3214						
4.0 [4.08 max]	6.0	2.0-3.0	10344006	7.5	-	2.25	27	1600	1200
 Ø 4.2 max	8.0	2.0-5.0	4008						
	10.0	5.0-6.5	4010						
	12.0	6.5-8.5	4012						
	14.0	8.5-10.5	4014						
	16.0	8.5-12.5	4016						
4.8 [4.88 max]	8.0	2.5-4.0	10344808	9.0	-	2.73	27	2230	1690
 Ø 5.0 max	10.0	4.0-6.0	4810						
	12.0	6.0-8.0	4812						
	14.0	8.0-10.0	4814						
	16.0	8.0-12.0	4816						
	18.0	10.0-14.0	4818						
	20.0	12.0-15.0	4820						
	25.0	15.0-20.0	4825						
5.0 [5.08 max]	8.0	2.5-4.0	10345008	9.0	-	2.73	27	2500	2000
 Ø 5.2 max	10.0	4.0-6.0	5010						
	12.0	6.0-8.0	5012						
	14.0	8.0-10.0	5014						
	16.0	8.0-12.0	5016						
	18.0	12.0-14.0	5018						
	20.0	12.0-15.0	5020						
	25.0	15.0-20.0	5025						

1021 Series

MFX® Open End | Dome head



Aluminium - Polished
[AlMg2.5]

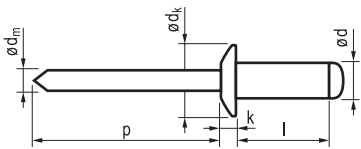


Aluminium - Polished

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	6.0	1.0-3.0	10213206	6.5	1.2	1.95	27	670	535
 Ø 3.4 max	8.0	3.0-5.0	3208						
	10.0	5.0-7.0	3210						
	12.0	7.0-9.0	3212						
	14.0	9.0-11.0	3214						
4.0 [4.08 max]	6.0	1.0-2.0	10214006	8.0	1.5	2.43	27	1025	845
	8.0	2.0-4.0	4008						
	10.0	4.0-6.0	4010						
	12.0	6.0-8.0	4012						
	14.0	8.0-10.0	4014						
4.8 [4.88 max]	6.0	1.0-2.0	10214006	9.5	1.6	2.90	27	1425	1155
	8.0	1.5-3.5	10214808						
	10.0	3.5-5.5	4810						
	12.0	5.5-7.5	4812						
	14.0	7.5-9.5	4814						
	16.0	9.5-11.5	4816						
	18.0	11.5-13.5	4818						
	20.0	13.5-15.5	4820						
	25.0	15.5-20.5	4825						

1071 Series

MFX® Open End | Dome head



Aluminium - Polished
[AlMg3.5]

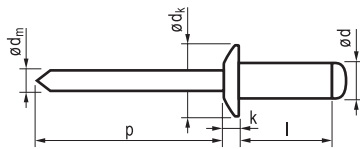


Stainless steel - Polished
[A2]

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.0 [3.08 max]	6.0	1.5-3.5	10713006	6.3	1.1	1.80	25	800	500
 Ø 3.2 max	8.0	3.5-5.0	3008						
	10.0	5.0-7.0	3010						
	12.0	7.0-9.0	3012						
3.2 [3.28 max]	6.0	1.5-3.5	10713206	6.3	1.1	1.85	25	980	760
 Ø 3.4 max	8.0	3.5-5.0	3208						
	10.0	5.0-7.0	3210						
	12.0	7.0-9.0	3212						
4.0 [4.08 max]	6.0	1.0-3.0	10714006	8.0	1.4	2.25	27	1600	1200
 Ø 4.2 max	8.0	3.0-5.0	4008						
	10.0	5.0-6.5	4010						
	12.0	6.5-8.5	4012						
4.8 [4.88 max]	10.0	4.0-6.0	10714810	9.5	1.5	2.73	27	2230	1690
 Ø 5.0 max	12.0	6.0-8.0	4812						
	14.0	8.0-10.0	4814						
	16.0	8.0-12.0	4816						
	18.0	12.0-14.0	4818						
	20.0	12.0-15.0	4820						
5.0 [5.08 max]	8.0	2.5-4.0	10715008	9.5	1.5	2.73	27	2500	2000
 Ø 5.2 max	10.0	4.0-6.0	5010						
	12.0	6.0-8.0	5012						
	16.0	8.0-12.0	5016						

1041 Series

MFX® Open End | Dome head



Steel - Zinc plated

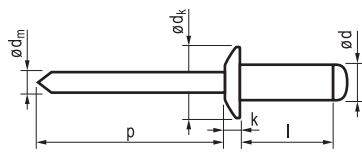


Steel - Zinc plated

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.0 [3.08 max]	6.0	1.0-3.0	10413006	6.5	1.2	1.90	27	1125	915
 Ø 3.2 max	8.0	3.0-5.0	3008						
	10.0	5.0-7.0	3010						
	12.0	7.0-9.0	3012						
3.2 [3.28 max]	6.0	1.0-3.0	10413206	6.5	1.2	1.90	27	1285	1060
 Ø 3.4 max	8.0	3.0-5.0	3208						
	10.0	5.0-7.0	3210						
	12.0	7.0-8.5	3212						
	14.0	8.5-10.5	3214						
	16.0	10.5-12.5	3216						
4.0 [4.08 max]	6.0	1.0-2.0	10414006	8.0	1.5	2.42	27	1990	1550
 Ø 4.2 max	8.0	2.0-4.0	4008						
	10.0	4.0-6.0	4010						
	12.0	6.0-8.0	4012						
	14.0	8.0-10.0	4014						
	16.0	10.0-12.0	4016						
	18.0	12.0-14.0	4018						
	20.0	14.0-16.0	4020						
4.8 [4.88 max]	6.0	1.0-1.5	10414806	9.5	1.6	2.87	27	2920	2300
 Ø 5.0 max	8.0	1.0-3.0	4808						
	10.0	3.0-5.0	4810						
	12.0	5.0-7.0	4812						
	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						
	22.0	15.0-17.0	4822						
	25.0	17.0-20.0	4825						
	28.0	20.0-23.0	4828						
	30.0	23.0-25.0	4830						

1041 Series

MFX® Open End | Dome head



Steel - Zinc plated

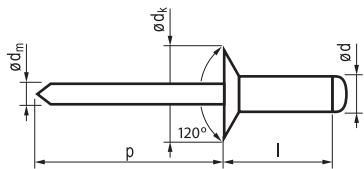


Steel - Zinc plated

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
5.0 [5.08 max]	8.0	2.0-3.0	10415008	9.5	1.6	2.87	27	3255	2575
 Ø 5.2 max	10.0	3.0-5.0	5010						
	12.0	5.0-7.0	5012						
	14.0	7.0-9.0	5014						
	16.0	9.0-11.0	5016						
	18.0	11.0-13.0	5018						
	20.0	13.0-15.0	5020						
6.0 [6.08 max]	12.0	3.5-6.0	10416012	12.0	1.9	3.58	31	5020	4040
 Ø 6.2 max	15.0	6.0-9.0	6015						
	18.0	9.0-12.0	6018						
	22.0	12.0-16.0	6022						
	26.0	16.0-20.0	6026						
	30.0	20.0-24.0	6030						
6.4 [6.48 max]	12.0	3.5-6.0	10416412	13.0	2.2	3.80	31	5415	4355
 Ø 6.6 max	15.0	6.0-9.0	6415						
	18.0	9.0-11.5	6418						
	22.0	11.5-15.5	6422						
	26.0	15.5-19.5	6426						
	30.0	19.5-23.5	6430						

1044 Series

MFX® Open End | Countersunk head



Steel - Zinc plated

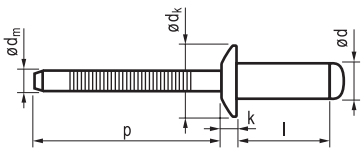


Steel - Zinc plated

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
3.0 [3.08 max]	6.0	1.0-3.0	10443006	6.0	-	1.9	27	1125	915
 Ø 3.2 max	8.0	3.0-5.0	3008						
	10.0	5.0-7.0	3010						
3.2 [3.28 max]	6.0	1.0-3.0	10443206	6.0	-	1.9	27	1285	1060
 Ø 3.4 max	8.0	3.0-5.0	3208						
	10.0	5.0-7.0	3210						
4.0 [4.08 max]	6.0	1.0-2.0	10444006	7.5	-	2.42	27	1990	1550
 Ø 4.2 max	8.0	2.0-4.0	4008						
	10.0	4.0-6.0	4010						
	12.0	6.0-8.0	4012						
4.8 [4.88 max]	8.0	1.0-3.0	10444808	9.0	-	2.87	27	2920	2300
 Ø 5.0 max	10.0	3.0-5.0	4810						
	12.0	5.0-7.0	4812						
	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						

1051 Series

MFX® Open End | Dome head



Stainless steel - Polished
[A2]

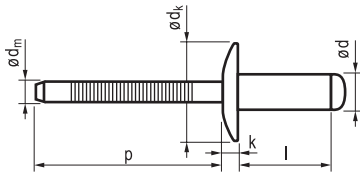


Stainless steel - Polished
[A2]

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
3.0 [3.08 max]	6.0	1.0-3.0	10513006	6.5	1.2	2.05	27	2000	1600
 Ø 3.2 max	8.0	3.0-5.0	3008						
	10.0	5.0-7.0	3010						
	12.0	7.0-9.0	3012						
3.2 [3.28 max]	4.0	0.5-2.0	10513204	6.5	1.2	2.05	27	2500	1800
 Ø 3.4 max	6.0	1.0-3.0	3206						
	8.0	3.0-5.0	3208						
	10.0	5.0-7.0	3210						
	12.0	7.0-9.0	3212						
	15.0	8.0-11.0	3215						
	18.0	12.0-15.0	3218						
4.0 [4.08 max]	6.0	1.0-2.5	10514006	8.5	1.6	2.55	27	3800	3100
 Ø 4.2 max	8.0	2.5-4.5	4008						
	10.0	4.5-6.5	4010						
	13.0	7.5-9.5	4013						
	16.0	9.5-12.0	4016						
	18.0	12.0-14.0	4018						
	20.0	14.0-16.0	4020						
4.8 [4.88 max]	8.0	1.5-4.0	10514808	10.1	1.8	2.95	27	6000	4500
 Ø 5.0 max	10.0	4.0-6.0	4810						
	12.0	6.0-8.0	4812						
	14.0	8.0-9.5	4814						
	16.0	9.5-11.0	4816						
	18.0	11.0-13.0	4818						
	20.0	11.0-15.0	4820						
5.0 [5.08 max]	8.0	2.0-4.0	10515008	10.1	1.8	2.95	27	6500	5000
 Ø 5.2 max	10.0	4.0-6.0	5010						
	12.0	6.0-8.0	5012						
	16.0	10.0-12.0	5016						
6.0 [6.08 max]	12.0	4.0-6.0	10516012	12.0	1.9	3.70	31	8850	6500
 Ø 6.2 max	15.0	6.0-9.0	6015						
	18.0	9.0-12.0	6018						
	20.0	10.0-14.0	6020						
6.4 [6.48 max]	12.0	4.0-6.0	10516412	13.0	2.1	3.95	31	8850	6500
 Ø 6.6 max	15.0	6.0-9.0	6415						
	18.0	9.0-13.0	6418						
	20.0	13.0-16.0	6420						
	25.0	16.0-20.0	6425						

1052 Series

MFX® Open End | Large head



Stainless steel - Polished
[A2]

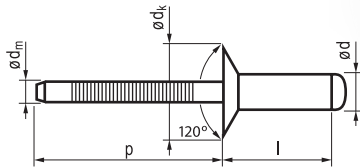


Stainless steel - Polished
[A2]

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
4.8 [4.88 max]	8.0	2.5-4.0	10524808	14.5	2.1	2.95	27	5335	4230
 Ø 5.0 max	10.0	4.0-6.0	4810						
	12.0	6.0-8.0	4812						
	14.0	8.0-9.5	4814						
	16.0	9.5-11.0	4816						

1054 Series

MFX® Open End | Countersunk head



Stainless steel - Polished
[A2]

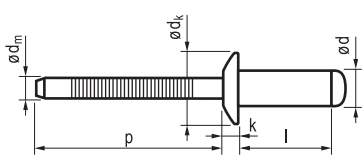


Stainless steel - Polished
[A2]

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	6.0	1.0-3.0	10543206	6.0	-	2.05	27	2500	1800
 Ø 3.4 max	8.0	3.0-5.0	3208						
	10.0	5.0-7.0	3210						
	12.0	7.0-9.0	3212						
4.0 [4.08 max]	6.0	1.0-2.5	10544006	7.5	-	2.55	27	3800	3100
 Ø 4.2 max	8.0	2.5-4.5	4008						
	10.0	4.5-6.5	4010						
	12.0	6.5-8.5	4012						
	15.0	9.0-11.0	4015						
4.8 [4.88 max]	8.0	1.5-4.0	10544808	9.0	-	2.95	27	6000	4500
 Ø 5.0 max	10.0	4.0-6.0	4810						
	12.0	6.0-8.0	4812						
	15.0	9.0-10.0	4815						
	18.0	11.0-13.0	4818						
	21.0	13.0-15.0	4821						

1541 Series

MFX® Open End | Dome head

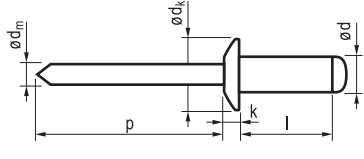


- Stainless steel - Polished [A4]
- Stainless steel - Polished [A4]

Ø d [mm]	l [+1/-0.2] [mm]	[mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	[N]	[N]
3.0 [3.08 max]	6.0	1.0-3.0	15413006	6.5	1.2	2.05	27	2000	1600
Ø 3.2 max	8.0	3.0-5.0	3008						
	10.0	5.0-7.0	3010						
3.2 [3.28 max]	6.0	1.0-3.0	15413206	6.5	1.2	2.05	27	2500	1800
Ø 3.4 max	8.0	3.0-5.0	3208						
	10.0	5.0-7.0	3210						
	12.0	7.0-9.0	3212						
4.0 [4.08 max]	6.0	1.0-2.5	15414006	8.5	1.6	2.55	27	3800	3100
Ø 4.2 max	8.0	2.5-4.5	4008						
	10.0	4.5-6.5	4010						
	13.0	6.5-9.5	4013						
	16.0	9.5-12.0	4016						
4.8 [4.88 max]	8.0	1.5-4.0	15414808	10.1	1.8	2.95	27	6000	4500
Ø 5.0 max	10.0	4.0-6.0	4810						
	12.0	6.0-8.0	4812						
	14.0	8.0-9.5	4814						
	16.0	9.5-11.0	4816						
	18.0	11.0-13.0	4818						

1101 Series

MFX® Open End | Dome head

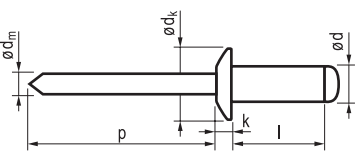


- Copper - Polished
- Steel - Zinc plated

Ø d [mm]	l [+1/-0.0] [mm]	[mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	[N]	[N]
3.0 [3.08 max]	6.0	1.0-3.0	11013006	6.3	1.0	1.8	25	950	760
Ø 3.2 max	8.0	3.0-5.0	3008						
	10.0	5.0-7.0	3010						
3.2 [3.28 max]	6.0	1.0-3.0	11013206	6.3	1.0	1.85	25	1000	800
Ø 3.4 max	8.0	3.0-5.0	3208						
	10.0	5.0-7.0	3210						
	12.0	7.0-9.0	3212						
4.0 [4.08 max]	6.0	1.0-2.5	11014006	8.0	1.3	2.25	25	1800	1500
Ø 4.2 max	8.0	2.5-4.5	4008						
	10.0	4.5-6.5	4010						
	12.0	6.5-8.5	4012						
	14.0	8.5-10.0	4014						
4.8 [4.88 max]	8.0	2.5-4.0	11014808	9.5	1.4	2.73	27	2500	2000
Ø 5.0 max									

1851 Series

MFX® Open End | Dome head

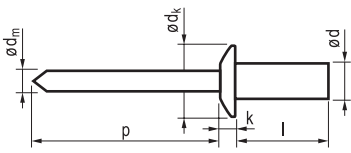


- Copper - Polished
- Bronze - Polished

Ø d [mm]	l [+1/-0.0] [mm]	[mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	[N]	[N]
3.0 [3.08 max]	6.0	2.0-3.0	18513006	6.3	1.0	1.9	25	950	760
Ø 3.2 max	8.0	3.0-5.0	3008						
3.2 [3.28 max]	6.0	2.0-3.0	18513206	6.3	1.0	2.05	25	1000	800
Ø 3.4 max	8.0	3.0-5.0	3208						
	10.0	5.0-7.0	3210						
4.0 [4.08 max]	6.0	1.0-2.5	18514006	8.0	1.3	2.55	25	1800	1500
Ø 4.2 max	8.0	2.5-4.5	4008						
	10.0	4.5-6.5	4010						

1201 Series

MFX® Closed End | Dome head



Aluminium - Polished
[AlMg5]

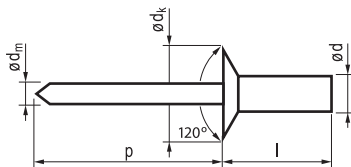


Steel - Phosphated

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	6.5	0.5-2.0	12013206						
 Ø 3.4 max	8.0	2.0-3.5	3208						
	9.5	3.5-5.0	3209	6.4	1.30	1.85	26	1450	1100
	11.0	5.0-6.5	3210						
	12.5	6.5-8.0	3212						
4.0 [4.08 max]	8.0	1.0-3.5	12014008						
 Ø 4.2 max	9.5	3.5-4.5	4009						
	11.0	4.5-6.5	4011	8.3	1.60	2.25	27	2200	1600
	13.0	6.5-8.0	4012						
	15.0	8.0-10.5	4015						
4.8 [4.88 max]	8.0	1.0-3.0	12014808						
 Ø 5.0 max	9.5	3.0-4.5	4809						
	11.0	4.5-6.0	4811						
	12.5	6.0-7.5	4812						
	14.0	7.5-9.0	4814	9.9	2.0	2.73	28	3100	2200
	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 [6.48 max]	12.5	1.5-6.5	12016412						
 Ø 6.6 max	16.0	5.0-10.0	6416	13.0	2.5	3.75	30	4900	3600

1204 Series

MFX® Closed End | Countersunk head



Aluminium - Polished
[AlMg5]

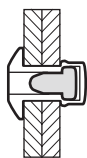
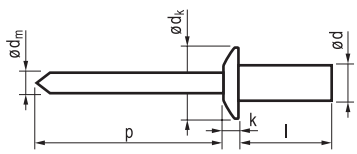


Steel - Phosphated

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	7.5	1.5-3.0	12043207						
 Ø 3.4 max	9.0	3.0-4.5	3209	6.2	-	1.85	26	1450	1100
	10.5	4.5-6.0	3210						
4.0 [4.08 max]	9.5	3.5-5.0	12044009						
 Ø 4.2 max	11.0	5.0-6.5	4011	8.3	-	2.25	27	2200	1600
	12.5	6.5-8.0	4012						
4.8 [4.88 max]	9.5	2.5-4.5	12044809						
 Ø 5.0 max	11.0	4.5-6.5	4811						
	12.5	6.0-7.5	4812	9.8	-	2.73	28	3100	2200
	14.0	7.5-9.0	4814						
	15.5	9.0-10.5	4815						
	19.5	12.0-14.0	4819						

1211 Series

MFX® Closed End | Dome head



Aluminium - Polished

[Al99.5]

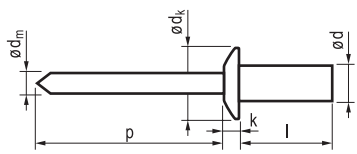


Aluminium - Phosphated

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	8.0	1.0-3.5	12113208	6.4	1.3	1.90	26	540	460
 Ø 3.4 max	9.5	3.5-5.0	3209						
4.0 [4.08 max]	9.5	1.0-5.0	12114009	8.3	1.6	2.30	27	760	720
 Ø 4.2 max	12.5	6.5-8.0	4012						
4.8 [4.88 max]	9.5	1.0-4.5	12114809	9.9	2.0	2.75	28	1400	1000
 Ø 5.0 max	11.5	4.5-6.5	4811						
	14.5	6.5-9.5	4814						
	18.0	9.5-13.0	4818						

1231 Series

MFX® Closed End | Dome head



Aluminium - Polished

[AlMg5]



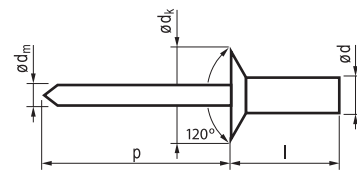
Stainless steel - Polished

[A2]

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	6.5	0.5-2.0	12313206	6.4	1.4	1.85	26	1250	1070
 Ø 3.4 max	8.0	2.0-3.5	3208						
	9.5	3.5-5.0	3209						
	11.0	5.0-6.5	3211	8.3	1.6	2.25	27	2200	1600
4.0 [4.08 max]	8.0	0.5-3.5	12314008						
 Ø 4.2 max	9.5	3.5-5.0	4009						
	11.0	5.0-6.5	4011	9.9	2.0	2.73	28	3100	2200
	12.5	6.5-8.0	4012						
4.8 [4.88 max]	8.0	1.0-3.0	12314808						
 Ø 5.0 max	9.5	3.0-4.5	4809						
	11.0	4.5-6.0	4811						
	12.5	6.0-7.5	4812						
	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						

1234 Series

MFX® Closed End | Countersunk head



Aluminium - Polished

[AlMg5]



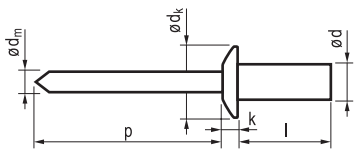
Stainless steel - Polished

[A2]

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
4.0 [4.08 max]	9.5	3.0-5.0	12344009	8.3	-	2.25	27	2200	1600
 Ø 4.2 max	11.0	5.0-6.5	4011						
4.8 [4.88 max]	11.0	4.0-6.0	12344811	9.8	-	2.73	28	3100	2200
 Ø 5.0 max	14.0	7.5-9.0	4814						

1241 Series

MFX® Closed End | Dome head



Steel - Zinc plated

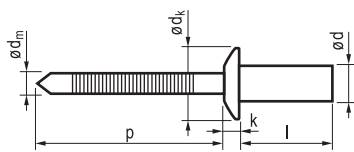


Steel - Zinc plated

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Ref. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	6.0	0.5-1.5	12413206	6.7	1.3	1.90	27	1300	1150
 Ø 3.4 max	8.0	1.5-3.0	3208						
	9.5	3.0-5.0	3209						
4.0 [4.08 max]	8.0	1.5-3.0	12414008	8.4	1.7	2.30	27	1860	1700
 Ø 4.2 max	10.0	3.0-5.0	4010						
	12.0	5.0-6.5	4012						
4.8 [4.88 max]	15.0	6.5-10.5	4015						
	9.5	3.0-5.0	12414809	10.1	2.0	2.90	27	2800	2400
	12.0	5.0-6.5	4812						
	16.0	6.5-10.5	4816						

1261 Series

MFX® Closed End | Dome head



Stainless steel - Polished

[A2]

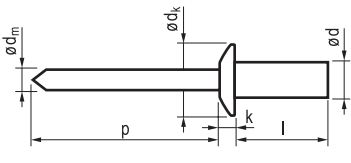


Stainless steel - Polished

Ø d [mm]	l [+/-0.5] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	6.5	0.5-1.5	12613206	6.7	1.3	2.15	25	2200	2000
 Ø 3.4 max	8.5	1.5-3.0	3208						
	10.5	3.0-5.0	3209						
	12.5	5.0-6.5	3212						
4.0 [4.08 max]	6.5	0.5-1.5	12614006	8.4	1.7	2.75	25	3500	3000
 Ø 4.2 max	8.5	1.5-3.0	4008						
	10.5	3.0-5.0	4009						
	12.5	5.0-6.5	4012						
	16.5	6.5-10.5	4016						
4.8 [4.88 max]	8.5	0.5-3.0	12614808	10.1	2.0	3.20	27	4400	4000
 Ø 5.0 max	10.5	3.0-5.0	4809						
	12.5	5.0-6.5	4812						
	16.5	6.5-9.0	4816						
	20.5	9.0-14.0	4820						

1251 Series

MFX® Closed End | Dome head



Copper - Polished

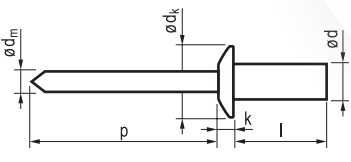


Steel - Protection layer

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	6.5	0.5-2.0	12513206	6.4	1.3	1.85	26	1300	850
 Ø 3.4 max	8.0	2.0-3.5	3208						
	9.5	3.5-5.0	3209						
	12.0	6.0-7.5	3212						
4.0 [4.08 max]	10.0	4.0-5.5	12514010	8.3	1.6	2.25	27	2000	1350
 Ø 4.2 max									
4.8 [4.88 max]	9.5	3.5-5.0	12514809	9.9	2.0	2.73	28	2800	1950
 Ø 5.0 max	11.5	5.0-6.5	4811						

1281 Series

MFX® Closed End | Dome head



Copper - Polished

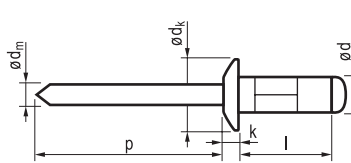


Stainless steel - Polished
[A2]

Ø d [mm]	l [+1/-0.0] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	6.5	0.5-2.0	12813206	6.4	1.4	1.85	26	1300	850
 Ø 3.4 max	8.0	2.0-3.5	3208						
	9.5	3.5-5.0	3209						
	12.5	6.5-8.0	3212						
4.0 [4.08 max]	8.0	1.5-3.5	12814008	8.3	1.7	2.25	27	2000	1350
 Ø 4.2 max	10.0	4.0-5.5	4010						

1001 Series

MFX® Plia™ | Multigrip | Dome head



Aluminium - Polished
[AlMg2.5]

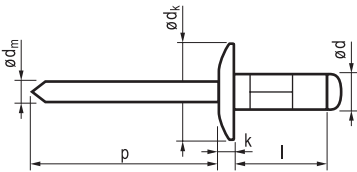
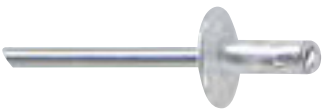


Steel - Zinc plated

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.0 [3.05 max]	6.0	1.0-3.0	10013006	6.5	1.15	1.75	27	650	520
 Ø 3.2 max	8.0	1.0-5.0	3008						
	10.0	2.5-7.0	3010						
	12.0	4.5-9.0	3012						
3.2 [3.25 max]	6.0	1.0-3.0	10013206	6.65	1.15	1.83	27	980	680
 Ø 3.4 max	8.0	1.0-5.0	3208						
	9.5	2.0-6.5	3209						
	10.0	2.5-7.0	3210						
	11.1	3.5-8.0	3211						
	12.0	4.5-9.0	3212						
	14.0	6.5-11.0	3214						
	16.0	8.5-13.0	3216						
4.0 [4.05 max]	6.0	1.0-2.5	10014006	8.33	1.35	2.22	27	1600	1150
 Ø 4.2 max	8.0	1.0-4.0	4008						
	9.5	1.5-5.5	4009						
	10.0	1.5-6.5	4010						
	12.0	3.5-8.0	4012						
	12.7	4.0-9.0	4013						
	14.0	5.5-10.0	4014						
	16.0	7.5-12.0	4016						
	17.0	8.5-13.0	4017						
	20.0	11.5-16.0	4020						
4.8 [4.85 max]	10.3	1.5-5.5	10014811	10.0	2.0	2.72	27	2350	1500
 Ø 5.0 max	12.0	2.0-7.0	4812						
	14.0	4.0-9.0	4814						
	15.1	5.0-10.0	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						
	24.8	14.5-20.0	4825						

1002 Series

MFX® Plia™ | Multigrip | Large head



Aluminium - Polished
[AlMg2.5]

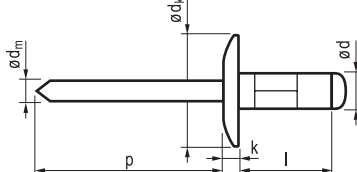


Steel - Zinc plated

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.25 max]	8.0	1.0-5.0	10023208	9.90	2.0	1.83	27	980	680
 Ø 3.4 max	9.5	2.0-6.5	3209						
	10.0	2.5-7.0	3210						
	12.0	4.5-9.0	3212						
4.0 [4.05 max]	8.0	1.0-4.0	10024008	12.4	2.5	2.22	27	1600	1150
 Ø 4.2 max	10.0	1.5-6.5	4010						
	11.1	2.5-7.5	4011						
	12.0	3.5-8.0	4012						
	16.0	7.5-12.0	4016						
	17.0	8.5-13.0	4017						
4.8 [4.85 max]	10.0	1.5-5.0	10024810	14.5	2.5	2.72	27	2350	1500
 Ø 5.0 max	12.0	2.0-7.0	4812						
	16.0	6.0-11.0	4816						
	18.0	8.0-13.0	4818						
	20.0	10.0-15.0	4820						

1003 Series

MFX® Plia™ | Multigrip | Extra large head



Aluminium - Polished
[AlMg2.5]

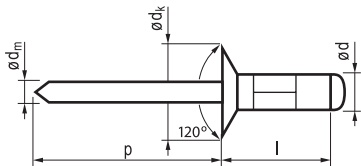


Steel - Zinc plated

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
4.8 [4.85 max]	10.3	1.5-5.5	10034811	16.5	2.5	2.72	27	2350	1500
 Ø 5.0 max	12.0	2.0-7.0	4812						
	14.0	4.0-9.0	4814						
	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						
	24.8	14.5-20.0	4825						
	27.0	16.0-22.0	4827						

1004 Series

MFX® Plia™ | Multigrip | Countersunk head



Aluminium - Polished
[AlMg2.5]

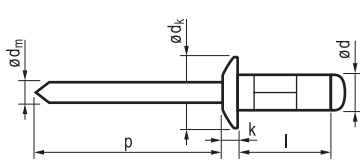


Steel - Zinc plated

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.25 max]	8.0	1.5-5.0	10043208	6.24	-	1.83	27	980	680
 Ø 3.4 max	9.7	2.5-6.5	3209						
	10.0	2.5-7.0	3210						
	12.0	4.5-9.0	3212						
4.0 [4.05 max]	8.0	1.5-4.5	10044008	8.29	-	2.22	27	1600	1150
 Ø 4.2 max	10.0	1.5-6.5	4010						
	11.3	2.5-7.5	4011						
	12.0	3.5-8.0	4012						
	14.0	5.5-10.0	4014						
4.8 [4.85 max]	10.0	1.5-5.0	10044810	9.79	-	2.72	27	2350	1500
 Ø 5.0 max	12.0	2.0-7.0	4812						
	16.9	7.0-12.0	4817						

1171 Series

MFX® Plia™ | Multigrip | Dome head white



Aluminium - White paint Ral 9016
[AlMg2.5]

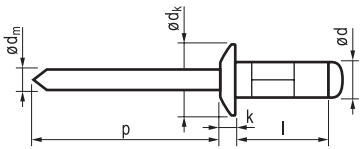


Steel - Zinc plated

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.25 max]	6.0	1.0-3.0	11713206	6.65	1.15	1.83	27	980	680
 Ø 3.4 max	8.0	1.0-5.0	3208						
	10.0	2.5-7.0	3210						
	11.1	3.5-8.0	3211						
4.0 [4.05 max]	8.0	1.0-4.0	11714008	8.33	1.35	2.22	27	1600	1150
 Ø 4.2 max	9.5	1.5-5.5	4009						
	10.0	1.5-6.5	4010						
	12.0	3.5-8.0	4012						
	12.7	4.0-9.0	4013						
	14.0	5.5-10.0	4014						
	16.0	7.5-12.0	4016						
4.8 [4.85 max]	10.3	1.5-5.5	11714811	10.0	2.0	2.72	27	2350	1500
 Ø 5.0 max	12.0	2.0-7.0	4812						
	15.1	5.0-10.0	4815						
	16.0	6.0-11.0	4816						
	18.0	8.0-13.0	4818						

1181 Series

MFX® Plia™ | Multigrip | Dome head black



Aluminium - Black Paint Ral 9005
[AlMg2.5]

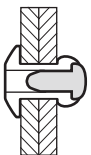
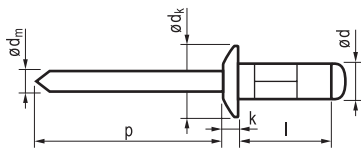


Steel - Zinc plated

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.25 max]	6.0	1.0-3.0	11813206	6.65	1.15	1.83	27	980	680
 Ø 3.4 max	8.0	1.0-5.0	3208						
	9.5	2.0-6.5	3209						
	10.0	2.5-7.0	3210						
	12.0	4.5-9.0	3212						
	16.0	8.5-13.0	3216						
4.0 [4.05 max]	8.0	1.0-4.0	11814008	8.33	1.35	2.22	27	1600	1150
 Ø 4.2 max	9.5	1.5-5.5	4009						
	10.0	1.5-6.5	4010						
	12.0	3.5-8.0	4012						
	12.7	4.0-9.0	4013						
	14.0	5.5-10.0	4014						
	16.0	7.5-12.0	4016						
	17.0	8.5-13.0	4017						
	18.0	9.4-14.0	4018						
4.8 [4.85 max]	10.3	1.5-5.5	11814811	10.00	2.00	2.72	27	2350	1500
 Ø 5.0 max	12.0	2.0-7.0	4812						
	14.0	4.0-9.0	4814						
	15.1	5.0-10.0	4815						
	16.0	6.0-11.0	4816						
	17.0	7.0-12.0	4817						
	20.0	10.0-15.0	4820						
	24.0	14.0-19.0	4824						

1441 Series

MFX® Plia™ | Multigrip | Dome head



Aluminium - Polished
[AlMg2.5]

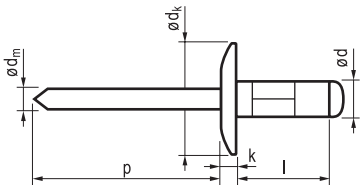


Stainless Steel - Polished
[A2]

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.25 max]	8.0	1.0-5.0	14413208	6.65	1.15	1.81	27	980	680
 Ø 3.4 max	11.1	3.5-8.0	3211						
4.0 [4.05 max]	9.5	1.5-5.5	14414009	8.33	1.35	2.18	27	1600	1150
 Ø 4.2 max	12.7	4.0-9.0	4012						
4.8 [4.85 max]	10.3	1.5-5.5	14414810	10.00	2.00	2.68	27	2350	1500
 Ø 5.0 max	15.1	5.0-10.0	4815						
	16.9	7.0-12.0	4816						
	24.8	14.5-20.0	4824						

1443 Series

MFX® Plia™ | Multigrip | Extra large head



Aluminium - Polished
[AlMg2.5]

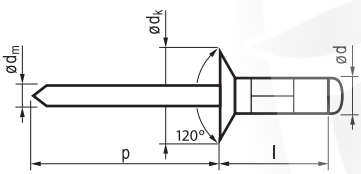


Stainless steel - Polished
[A2]

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
4.8 [4.85 max]	10.3	1.5-5.5	14434810	16.5	2.5	2.68	27	2350	1500
 Ø 5.0 max	16.9	7.0-12.0	4816						
	24.8	14.5-20.0	4824						

1444 Series

MFX® Plia™ | Multigrip | Countersunk head



Aluminium - Polished
[AlMg2.5]

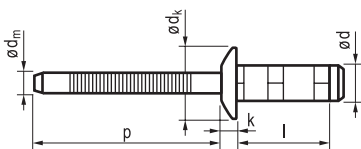


Stainless steel - Polished
[A2]

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
4.0 [4.05 max]	9.5	1.5-5.5	14444009	8.29	-	2.18	27	1600	1150
 Ø 4.2 max									
4.8 [4.85 max]	12.1	2.0-7.0	14444812	9.79	-	2.68	27	2350	1500
 Ø 5.0 max	16.9	7.0-12.0	4816						

1461 Series

MFX® Plia™ | Multigrip | Dome head



Steel - Zinc plated

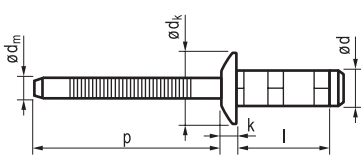


Steel - Zinc plated

Ø d [mm]	l [+/-0.3] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	11.4	1.6-6.4	14613211	6.65	1.02	2.05	27	1400	1100
 Ø 3.4 max									
4.0 [4.08 max]	12.0	1.6-6.4	14614012	8.33	1.27	2.65	27	2100	1800
 Ø 4.2 max	13.6	3.2-8.0	4013						
4.8 [4.88 max]	12.7	1.6-6.4	14614812	10.0	1.52	3.15	27	3100	2600
 Ø 5.0 max	14.3	3.2-8.0	4814						
	19.3	8.0-12.7	4819						

1451 Series

MFX® Plia™ | Multigrip | Dome head



Stainless steel - Polished
[A2]

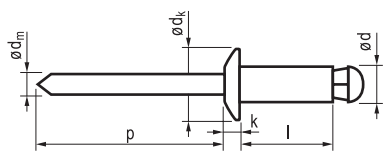


Stainless steel - Polished
[A2]

Ø d [mm]	l [+/-0.3] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.28 max]	9.9	1.0-4.8	14513210	6.65	1.02	2.3	27	2000	1700
 Ø 3.4 max									
4.0 [4.08 max]	12.0	1.6-6.4	14514012	8.33	1.27	2.85	27	3200	2900
 Ø 4.2 max	13.6	3.2-8.0	4013						
	16.8	6.4-11.2	4016						
4.8 [4.88 max]	12.7	1.6-6.4	14514812	10.00	1.52	3.25	27	4800	4100
 Ø 5.0 max	14.3	3.2-8.0	4814						
	17.5	6.4-11.2	4817						

1301 Series

MFX®-Peel | Dome head



Aluminium - Polished
[AlMg3.5]

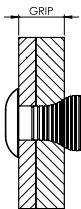
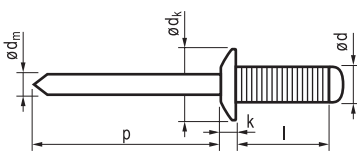


Steel - Zinc plated

Ø d [mm]	l [+1.0/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.35 max]	8.0	2.0-3.0	13013208						
 Ø 3.7 max	10.0	3.0-5.0	3210						
	12.0	5.0-7.0	3212	6.65	1.15	1.83	27	820	750
	16.0	9.0-11.0	3216						
	18.0	10.0-12.0	3218						
4.0 [4.15 max]	10.0	3.0-5.0	13014010						
 Ø 4.5 max	12.0	5.0-7.0	4012						
	14.0	6.0-8.0	4014						
	16.0	8.0-10.0	4016	8.33	1.35	2.22	27	1280	1140
	18.0	10.0-12.0	4018						
	20.0	12.0-14.0	4020						
4.8 [4.95 max]	10.0	2.0-4.0	13014810						
 Ø 5.3 max	12.0	4.0-6.0	4812						
	14.0	6.0-8.0	4814						
	16.0	8.0-10.0	4816						
	18.0	10.0-12.0	4818						
	20.0	12.0-14.0	4820	10.0	2.0	2.72	27	2450	2100
	22.0	14.0-16.0	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						

1601 Series

MFX®-Groove | Dome head



Blind Hole Application



Aluminium - Polished
[AlMg2.5]

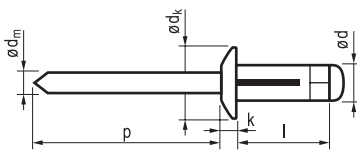


Steel - Zinc plated

Ø d [mm]	l [+1/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
3.2 [3.55 max]	10.0	Max. 6.0	16013210	6.65	1.15	1.81	27	930	525
 Ø 3.6 nom									
	8.0	Max. 4.0	16014008						
	12.0	Max. 8.0	4012	8.33	1.35	2.18	27	1410	885
 Ø 4.4 nom	16.0	Max. 12.0	4016						
4.8 [5.15 max]	8.0	Max. 3.0	16014808						
 Ø 5.2 nom	10.0	Max. 5.0	4810						
	11.0	Max. 6.0	4811						
	12.0	Max. 7.0	4812						
	14.0	Max. 9.0	4814	10.0	2.0	2.68	27	1575	1185
	16.0	Max. 11.0	4816						
	18.0	Max. 13.0	4818						
	20.0	Max. 15.0	4820						
	25.0	Max. 20.0	4825						

1361 Series

MFX®-Tri | Dome head



Aluminium - Polished
[AlMg3.5]

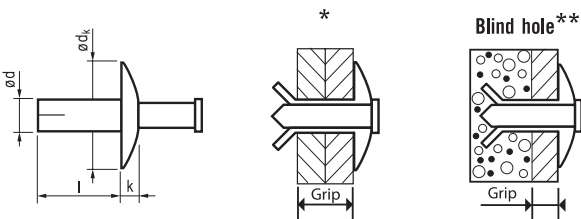


Aluminium - Polished
[AlMg5]

Ø d [mm]	l [+0.8/-0.2] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø dm Max. [mm]	p Min. [mm]	 [N]	 [N]
4.0 [4.1 max]	13.6	1.0-3.0	13614013						
 Ø 4.4 max	18.5	3.0-7.0	4018	8.3	1.6	2.4	27	750	550
4.8 [4.95 max]	15.3	1.0-4.0	13614815						
 Ø 5.2 max	20.3	1.0-9.0	4820	10.3	2.0	3.0	28	950	750
	24.5	4.0-12.0	4824						

1803 Series

MFx®-Hammerdrive™ | Extra large head



- Aluminium - Polished
- Stainless steel - Polished [A2]

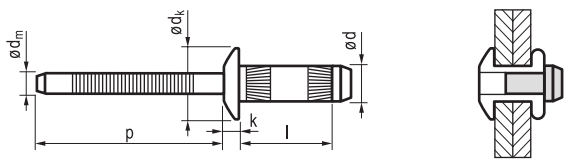
Ø d [mm]	l [+1/-0.2] [mm]	Item nr.	mm	mm	Ø d_k Max. [mm]	k Max. [mm]	Ø d_m Max. [mm]	[N]	[N]
4.8 [4.88 max]	16.0	18034816	11.5-13.0	11.0	15.0	2.5	2000	4500	
	20.0	4820	15.5-17.0	15.0					
	25.0	4825	20.5-22.0	20.0					
	30.0	4830	25.5-27.0	25.0					
	35.0	4835	30.5-32.0	30.0					
	40.0	4840	35.5-37.0	35.0					
	50.0	4850	45.5-47.0	45.0					

Min. depth for drilling: l + 6.0mm



1621 Series

MFx®-Bulb | High strength | Dome head

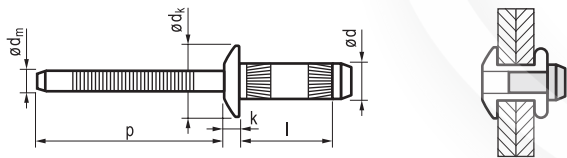


- Steel - Zinc plated
- Steel - Zinc plated

Ø d [mm]	l [+1/-0.5] [mm]	[mm]	Item nr.	Ø d_k Max. [mm]	k Max. [mm]	Ø d_m Max. [mm]	p Min. [mm]	[N]	[N]
3.2 [3.28 max]	7.0	1.0-3.0	16213207	6.5	1.2	2.1	27	1300	1700
	9.2	3.0-5.0	3209						
4.0 [4.08 max]	8.0	1.0-3.0	16214008	8.3	1.6	2.7	27	2800	3500
	12.5	5.0-7.0	4012						
4.8 [4.88 max]	9.0	1.5-3.5	16214809	10.0	1.7	3.1	27	3800	4200
	14.0	6.0-8.5	4814						

1611 Series

MFx®-Bulb | High strength | Dome head

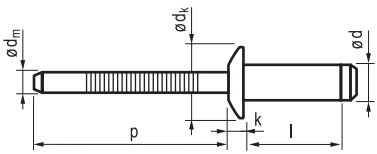


- Stainless steel - Polished
- Stainless steel - Polished

Ø d [mm]	l [+1/-0.5] [mm]	[mm]	Item nr.	Ø d_k Max. [mm]	k Max. [mm]	Ø d_m Max. [mm]	p Min. [mm]	[N]	[N]
3.2 [3.28 max]	7.0	1.0-3.0	16113207	6.5	1.2	2.10	27	1600	2000
	11.5	5.0-7.0	3211						
4.0 [4.08 max]	8.0	1.0-3.0	16114008	8.3	1.6	2.55	27	4000	4000
	12.5	5.0-7.0	4012						
4.8 [4.88 max]	10.0	1.5-3.5	16114809	10.0	1.7	3.25	27	5000	5500
	14.3	6.0-8.5	4814						

1471 Series

MFX®-Lock | High Strength | Dome head



Steel - Zinc plated

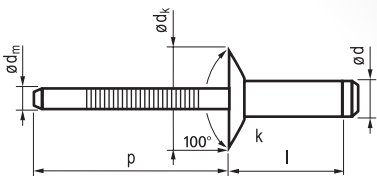


Steel - Zinc plated

Ø d [mm]	l [+1.0] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
4.8 [4.88 max]	11.5	3.5-6.0	14714811	10.2	2.5	3.4	28.0	3400	5800
 Ø 5.1 max	14.0	6.0-8.5	4814						6200
	16.5	8.5-11.0	4816						
6.4 [6.48 max]	10.5	2.8-4.8	14716410	13.4	3.5	4.2	30.0	6400	9200
 Ø 6.8 max	12.5	4.8-6.8	6412						10000
	14.5	6.8-8.8	6414						
	16.5	8.8-10.8	6416						
	18.5	10.8-12.8	6418						11000
	20.5	12.8-14.8	6420						

1474 Series

MFX®-Lock | High Strength | Countersunk head



Steel - Zinc plated

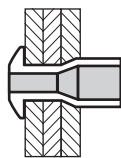
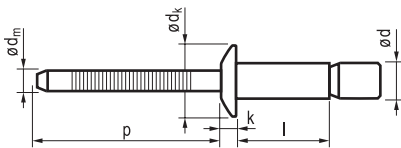


Steel - Zinc plated

Ø d [mm]	l [+1.0] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m Max. [mm]	p Min. [mm]	 [N]	 [N]
6.4 [6.48 max]	11.5	3.8-5.8	14746411	10.2	2.5	4.2	30	5400	5200
 Ø 6.8 max	12.5	4.8-6.8	6412						7200
	13.5	5.8-7.8	6413						9200
	15.5	7.8-9.8	6415						
	17.5	9.8-11.8	6417						10000
	19.5	11.8-13.8	6419						

1761 Series

MFX® P-Lock | High Strength | Dome head



Steel - Zinc plated



Steel - Zinc plated

Ø d [mm]	l [max] [mm]	 [mm]	Item nr.	Ø d _k Max. [mm]	k Max. [mm]	Ø d _m [mm]	p Min. [mm]	 [N]	 [N]
6.4 [6.58 max]	23.7	2.03-9.53	17616414	13.4	3.0	4.1	27.0	8230	10670
 Ø 7.0 max	33.0	2.03-15.87	6420						

Blind Rivet Nuts

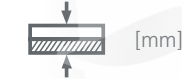
Blind Rivet Nut Data Sheets

Product Type	Material	Head Style	Series	Page
Mastergrip Open End	Steel	Cylindrical Head	23-CO Series	49
Mastergrip Closed End	Steel	Cylindrical Head	23-CG Series	50
Mastergrip Open End	Steel	Countersunk Head	23-VO Series	51
Mastergrip Closed End	Steel	Countersunk Head	23-VG Series	52
Mastergrip Open End	Steel	Reduced Countersunk Head	23-KVO Series	53
Mastergrip Open End	Steel	Reduced Countersunk Head	26-KVO Series	54
Mastergrip Hex Open End	Steel	Cylindrical Head	23-HCO Series	55
Mastergrip Hex Open End	Steel	Reduced Countersunk Head	23-HKVO Series	56
Mastergrip Open End	Stainless Steel	Cylindrical Head	24-CO Series	57
Mastergrip Open End	Stainless Steel	Countersunk Head	24-VO Series	58
Mastergrip Open End	Stainless Steel	Reduced Countersunk Head	24-KVO Series	59
Mastergrip Hex Open End	Stainless Steel	Cylindrical Head	24-HCO Series	60
Mastergrip Hex Open End	Stainless Steel	Reduced Countersunk Head	24-HKVO Series	61
Mastergrip Open End	A4 Stainless Steel	Cylindrical Head	28-CO Series	62
Mastergrip Open End	A4 Stainless Steel	Countersunk Head	28-VO Series	63
Mastergrip Open End	Aluminium	Cylindrical Head	20-CO Series	64
Mastergrip Closed End	Aluminium	Cylindrical Head	20-CG Series	65
Mastergrip Open End	Aluminium	Countersunk Head	20-VO Series	66
Mastergrip Open End	Aluminium	Reduced Countersunk Head	20-KVO Series	67
Masterbolt	Steel	Cylindrical Head	29 Series	68
MFX® Rubnut™	EPDM	Cylindrical Head	25CO Series	69

Guide To Data Tables



Hole size in the application. This can be round (diameter) or hexagonal (across flats)



Grip range for the rivet nut



Maximum applied torque to mating screw



Single shear strength of rivet nut



Pull-out strength of rivet nut

Performance

For reliable fastening, Masterfix® blind rivet nuts should be installed with the recommended placing tools shown in this brochure. (Note that MFX® Rubnut™ rivet nuts are installed by tightening of the mating screw upon final assembly of the joint).

The values in this brochure are for the strength of the installed rivet nut.

All data is determined using representative rivet nut samples over multiple tests and represents the typical performance of the rivet nut.

Applied torque testing is conducted with a mating test screw and a steel top plate which is prevented from rotating as the test torque is applied to the screw. The value presented is the maximum recommended tightening torque that may be applied to the mating screw.

Pull-out testing is conducted in steel plates equating to the maximum grip thickness for the particular rivet nut.

Single shear strength testing is conducted in hardened steel plates equating to the maximum grip thickness for the particular rivet nut. The value presented is for the rivet nut only and excludes any mating screw.

Please note that application joint materials or mating screw may be weaker than the installed rivet nut, so practical testing of the fastened application by the end-user is always recommended.

Blind Rivet Nuts

Mastergrip Blind Rivet Nuts

The Mastergrip blind rivet nuts include round and hexagonal shaped bodies to provide superior resistance to torque in soft material. The diameters of the Mastergrip blind rivet nuts are adapted to the use of standard hole diameters.

Key features and benefits

- Provides applications with a load bearing thread
- Can be easily set in thin material
- No need for time consuing tapping of threads
- Can be set from one side. where the rear of the material and the inside of the object are inaccessible



Specifications

- **Sizes:** M3 - M12
- **Material:** Aluminium, Steel, Stainless Steel A2 and A4
- **Head Style:** Cylindrical, Countersunk, Reduced countersunk
- **Body Types:** Round, Semi-Hexagonal, Open and closed end

Masterbolt

The Masterbolt is a blind riveting bolt providing an external thread connection.

Key features and benefits

- Suitable for thinsheet applications
- Enables mounting of components from one side only
- No deformation or discolouration of the application material



Specifications

- Sizes:** M4-M8
- Material:** Steel
- Head Style:** Dome, 8.8 class

MFx® Rubnut™

The elastic MFx® Rubnut™ blind rivet nut is available in various lengths and sizes with grip ranges from 0.4 up to 38.0mm.

Key features and benefits

- Easily installed from one side of the application when mating screw is tightened
- Absorbs vibration due to high elasticity

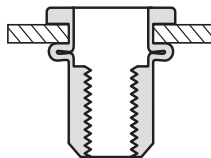
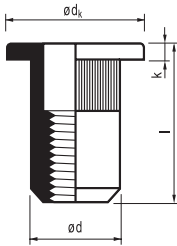


Specifications

- **Sizes:** M3 - M10
- **Material:** EPDM
- **Head Style:** Dome

23-CO Series

Mastergrip | Open end | Cylindrical head



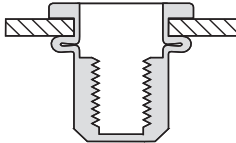
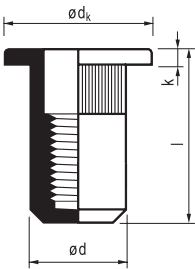
Steel - Zinc plated



Thread size [mm]	l [+0.5/-0] [mm]	 [mm]	Item nr.	Ø dk Max. [mm]	k Max. [mm]	Ø d Max. [mm]	 [Nm]	 [N]	 [N]
M3 Ø 5.1 max	10.5	0.5-2.5	23M03CO1	7.0	0.9	4.9	1.5	4900	900
M4 Ø 6.1 max	11.0	0.5-3.0	23M04CO1	9.0	1.1	5.9	5.1	6200	1600
	14.0	3.0-5.5	CO2						
M5 Ø 7.1 max	13.0	0.5-3.0	23M05CO1	10.0	1.1	6.9	7.9	10800	2400
	16.0	3.0-5.5	CO2						
M6 Ø 9.1 max	16.0	0.5-3.0	23M06CO1	12.0	1.6	8.9	12.4	17600	3400
	18.5	3.0-5.5	CO2						
	21.0	5.5-8.0	CO3						
M8 Ø 11.1 max	17.5	0.5-3.0	23M08CO1	15.0	1.6	10.9	32.0	24500	4400
	20.0	3.0-5.5	CO2						
	22.5	5.5-8.0	CO3						
	25.0	8.0-10.5	CO4						
M10 Ø 12.1 max	19.0	0.5-3.0	23M10CO1	16.0	2.1	11.9	45.0	29400	4900
	24.0	3.0-6.0	CO2						
	27.0	6.0-9.0	CO3						
M12 Ø 16.1 max	25.0	1.0-4.0	23M12CO1	22.0	2.1	15.9	60.0	48000	6800
	28.0	4.0-7.0	CO2						
	31.0	7.0-10.0	CO3						

23-CG Series

Mastergrip | Closed end | Cylindrical head



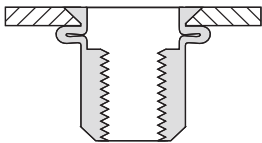
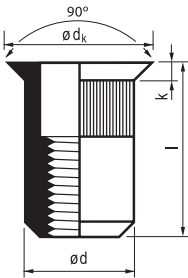
Steel - Zinc plated



Thread size	l [+0/-0.5]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M4	16.5	0.5-3.0	23M04CG1	9.0	1.1	5.9	5.1	6200	1600
 Ø 6.1 max									
M5	19.0	0.5-3.0	23M05CG1	10.0	1.1	6.9	7.9	10800	2400
 Ø 7.1 max									
M6	22.0	0.5-3.0	23M06CG1	12.0	1.6	8.9	12.4	17600	3400
 Ø 9.1 max	24.5	3.0-5.5	CG2						
M8	26.5	0.5-3.0	23M08CG1	15.0	1.6	10.9	32.0	24500	4400
 Ø 11.1 max	29.0	3.0-5.5	CG2						
M10	28.5	0.5-3.0	23M10CG1	16.0	2.1	11.9	45.0	29400	4900
 Ø 12.1 max	33.5	3.0-6.0	CG2						

23-VO Series

Mastergrip | Open end | Countersunk head



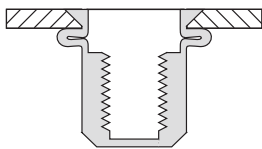
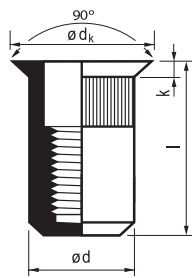
Steel - Zinc plated



Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M3	11.5	1.5-3.5	23M03VO1	7.4	1.5	4.9	1.5	4900	900
 Ø 5.1 max									
M4	12.5	1.5-4.0	23M04VO1	8.4	1.5	5.9	4.0	7800	2100
 Ø 6.1 max	15.0	4.0-6.5	VO2						
M5	13.5	1.5-4.0	23M05VO1	9.4	1.5	6.9	5.0	10700	2300
 Ø 7.1 max	16.0	4.0-6.5	VO2						
M6	15.5	1.5-4.0	23M06VO1	11.4	1.5	8.9	12.4	16600	3600
 Ø 9.1 max	18.0	4.0-6.5	VO2						
	20.5	6.5-9.0	VO3						
M8	18.5	1.5-4.0	23M08VO1	13.4	1.5	10.9	20.0	24500	4700
 Ø 11.1 max	21.0	4.0-6.5	VO2						
M10	21.0	2.0-4.5	23M10VO1	14.7	1.7	11.9	28.0	29400	4900
 Ø 12.1 max	24.0	4.5-7.5	VO2						
M12	24.5	2.0-4.5	23M12VO1	19.2	1.9	15.9	43.7	48000	6800
 Ø 16.1 max	27.5	4.5-7.5	VO2						

23-VG Series

Mastergrip | Closed end | Countersunk head



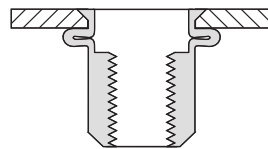
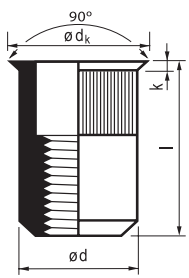
Steel - Zinc plated



Thread size	l [+0/-0.5]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M4	18.0	1.5-4.0	23M04VG1	8.4	1.5	5.9	4.0	7800	2100
 Ø 6.1 max									
M5	20.5	1.5-4.0	23M05VG1	9.4	1.5	6.9	5.0	10700	2300
 Ø 7.1 max									
M6	23.5	1.5-4.0	23M06VG1	11.4	1.5	8.9	12.4	16600	3600
 Ø 9.1 max									
M8	27.5	1.5-4.0	23M08VG1	13.4	1.5	10.9	20.0	24500	4700
 Ø 11.1 max			VG2						

23-KVO Series

Mastergrip | Open end | Reduced countersunk head



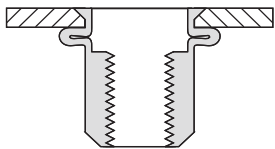
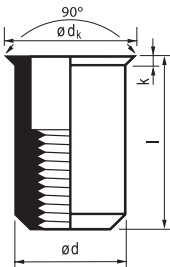
Steel - Zinc plated



Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M3	9.5	0.5-2.5	23M03KVO1	6.0	0.7	4.9	1.5	3900	900
 Ø 5.1 max									
M4	10.0	0.5-3.0	23M04KVO1	7.0	0.7	5.9	4.0	6300	1600
 Ø 6.1 max									
M5	11.5	0.5-3.0	23M05KVO1	8.0	0.7	6.9	5.0	9000	2100
 Ø 7.1 max									
M6	14.0	0.5-3.0	23M06KVO1	10.0	0.7	8.9	12.4	16600	2300
 Ø 9.1 max									
M8	15.5	0.5-3.0	23M08KVO1	12.0	0.7	10.9	18.0	21500	2800
 Ø 11.1 max									
M10	19.5	0.8-3.5	23M10KVO1	13.5	0.9	11.9	30.0	29400	4200
 Ø 12.1 max									

26-KVO Series (Imperial hole size)

Mastergrip | Open end | Reduced countersunk head



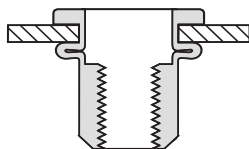
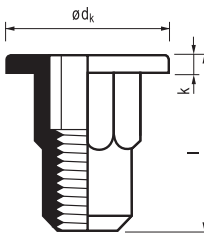
Steel - Zinc plated



Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M3	8.5	0.5-1.5	26M03KVO15	5.4	0.6	4.72	1.5	3900	900
 Ø 4.85 max									
M4	9.9	0.5-2.0	26M04KVO20	6.9	0.6	6.32	4.0	6300	1600
 Ø 6.45 max									
M5	11.3	0.5-3.0	26M05KVO30	7.7	0.6	7.11	5.0	9000	2100
 Ø 7.25 max									
M6	14.1	0.7-3.3	26M06KVO33	10.5	0.8	9.50	12.4	16600	2300
 Ø 9.65 max									
M8	15.5	0.9-3.7	26M08KVO37	11.5	0.8	10.57	18.0	21500	2800
 Ø 10.70 max									
M10	18.0	1.0-3.6	26M10KVO36	15.3	0.8	14.17	30.0	29400	4200
 Ø 14.30 max									

23-HCO Series

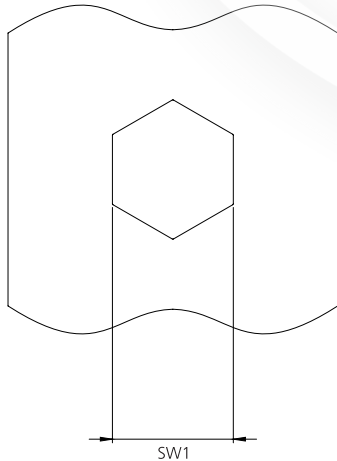
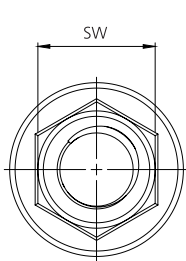
Mastergrip | Hex Open End | Cylindrical head



Steel - Zinc plated



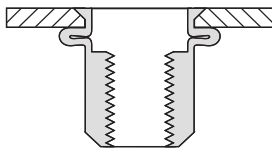
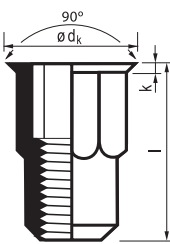
Thread size	l [+/-0.5]		Item nr.	Ø dk	k	Ø SW			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M4	13.0	0.5-3.0	23H04CO1	9.6	1.1	6.0	5.1	4800	1400
 SW1 6.2 max									
M5	14.5	0.5-3.0	23H05CO1	10.6	1.1	7.0	7.9	6000	1900
 SW1 7.2 max									
M6	17.0	0.5-3.0	23H06CO1	12.6	1.6	9.0	12.4	17600	2800
 SW1 9.2 max									
M8	19.0	0.5-3.0	23H08CO1	14.8	1.6	11.0	32.0	21500	3400
 SW1 11.2 max									
M10	24.0	1.0-4.0	23H10CO1	16.6	2.1	13.0	45.0	32300	3700
 SW1 13.2 max									



SW: Rivet nut exterior measurement flat side to flat side.
SW1: Hole interior measurement flat side to flat side.

23-HKVO Series

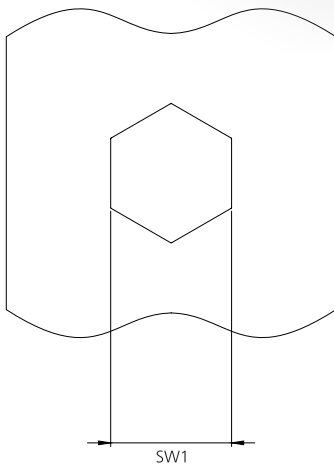
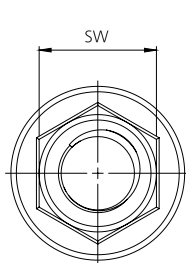
Mastergrip | Hex Open End | Reduced countersunk head



Steel - Zinc plated



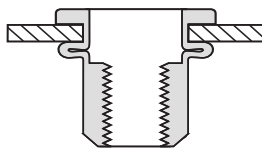
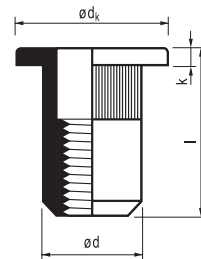
Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø SW			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M3	10.5	0.5-2.5	23H03KVO1	6.5	0.8	5.0	1.5	2900	900
 SW1 5.2 max									
M4	12.5	0.5-3.0	23H04KVO1	7.0	0.8	6.0	5.0	3500	1400
 SW1 6.2 max									
M5	14.0	0.5-3.0	23H05KVO1	8.0	0.8	7.0	7.9	4900	1700
 SW1 7.2 max									
M6	16.0	0.5-3.0	23H06KVO1	10.0	0.8	9.0	12.4	14700	2700
 SW1 9.2 max									
M8	17.0	0.5-3.0	23H08KVO1	12.0	0.8	11.0	21.0	21500	2900
 SW1 11.2 max									
M10	20.0	0.8-3.5	23H10KVO1	14.5	0.8	13.0	35.0	29400	3400
 SW1 13.2 max									



SW: Rivet nut exterior measurement flat side to flat side.
SW1: Hole interior measurement flat side to flat side.

24-CO Series

Mastergrip | Open end | Cylindrical head



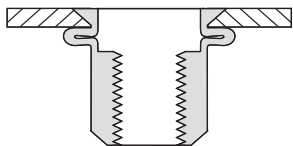
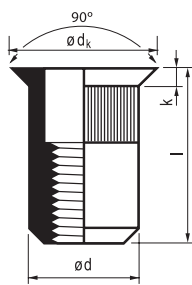
Stainless Steel - Polished
[A2]



Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M4	11.0	0.5-3.0	24M04CO1	9.0	1.1	5.9	6.9	6800	2600
 Ø 6.1 max	14.0	3.0-4.5	CO2						
M5	13.0	0.5-3.0	24M05CO1	10.0	1.1	6.9	11.0	11700	2900
 Ø 7.1 max	16.0	3.0-5.5	CO2						
M6	16.0	0.5-3.0	24M06CO1	12.0	1.6	8.9	22.2	18600	5300
 Ø 9.1 max	18.5	3.0-5.5	CO2						
M8	17.5	0.5-3.0	24M08CO1	15.0	1.6	10.9	30.5	26400	7800
 Ø 11.1 max	20.0	3.0-5.5	CO2						
M10	19.0	0.5-3.0	24M10CO1	16.0	2.1	12.9	37.0	35200	8800
 Ø 13.1 max	24.0	3.0-6.0	CO2						

24-VO Series

Mastergrip | Open end | Countersunk head



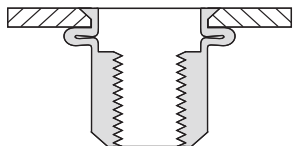
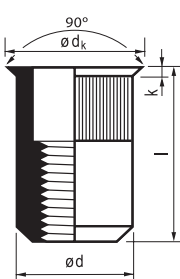
Stainless Steel - Polished
[A2]



Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M4	12.5	1.5-4.0	24M04VO1	8.4	1.5	5.9	9.0	9800	3700
 Ø 6.1 max									
M5	13.5	1.5-4.0	24M05VO1	9.4	1.5	6.9	10.0	11700	4000
 Ø 7.1 max	16.0	4.0-6.5	VO2						
M6	15.5	1.5-4.0	24M06VO1	11.4	1.5	8.9	21.0	20500	5300
 Ø 9.1 max	18.0	4.0-6.5	VO2						
M8	18.5	1.5-4.0	24M08VO1	13.4	1.5	10.9	30.2	27400	7600
 Ø 11.1 max	21.0	4.0-6.5	VO2						
M10	21.0	2.0-4.5	24M10VO1	15.7	1.8	12.9	33.0	32300	8000
 Ø 13.1 max	24.0	4.5-7.5	VO2						
M12	24.5	2.0-4.5	24M12VO1	19.2	2.0	15.9	50.0	53900	9800
 Ø 16.1 max	27.5	4.5-7.5	VO2						

24-KVO Series

Mastergrip | Open end | Reduced countersunk head



Stainless Steel - Polished
[A2]



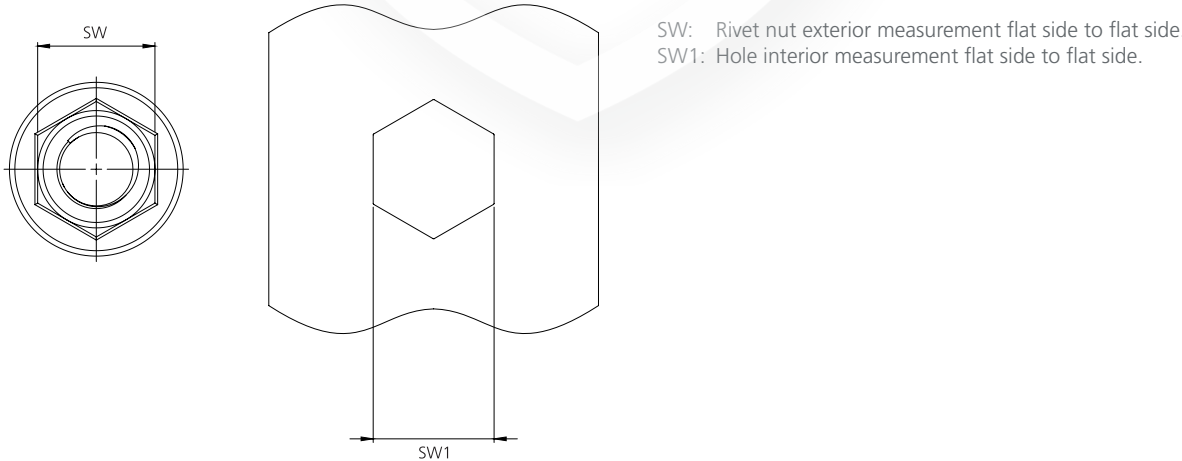
Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M4	10.0	0.5-3.0	24M04KVO1	7.0	0.9	5.9	6.9	6800	2600
 Ø 6.1 max									
M5	11.5	0.5-3.0	24M05KVO1	8.0	0.9	6.9	10.4	11700	2900
 Ø 7.1 max									
M6	14.0	0.5-3.0	24M06KVO1	10.0	0.9	8.9	21.2	18600	5100
 Ø 9.1 max									
M8	15.5	0.5-3.0	24M08KVO1	12.0	0.9	10.9	31.0	25400	5300
 Ø 11.1 max									
M10	19.5	0.8-3.5	24M10KVO1	14.5	1.1	12.9	32.0	33300	5800
 Ø 13.1 max									

24-HCO Series

Mastergrip | Hex Open End | Cylindrical head



Thread size	l [+/-0.5]		Item nr.	Ø dk	k	Ø SW			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M4  SW1 6.2 max	13.0	0.5-3.0	24H04CO1	9.6	1.1	6.0	9.0	9000	2600
M5  SW1 7.2 max	14.5	0.5-3.0	24H05CO1	10.6	1.1	7.0	11.0	12000	2600
M6  SW1 9.2 max	17.0	0.5-3.0	24H06CO1	12.6	1.6	9.0	21.0	21500	4500
M8  SW1 11.2 max	19.0	0.5-3.0	24H08CO1	14.8	1.6	11.0	35.0	35000	4500
M10  SW1 13.2 max	24.0	1.0-4.0	24H10CO1	16.6	2.1	13.0	43.0	55000	5500

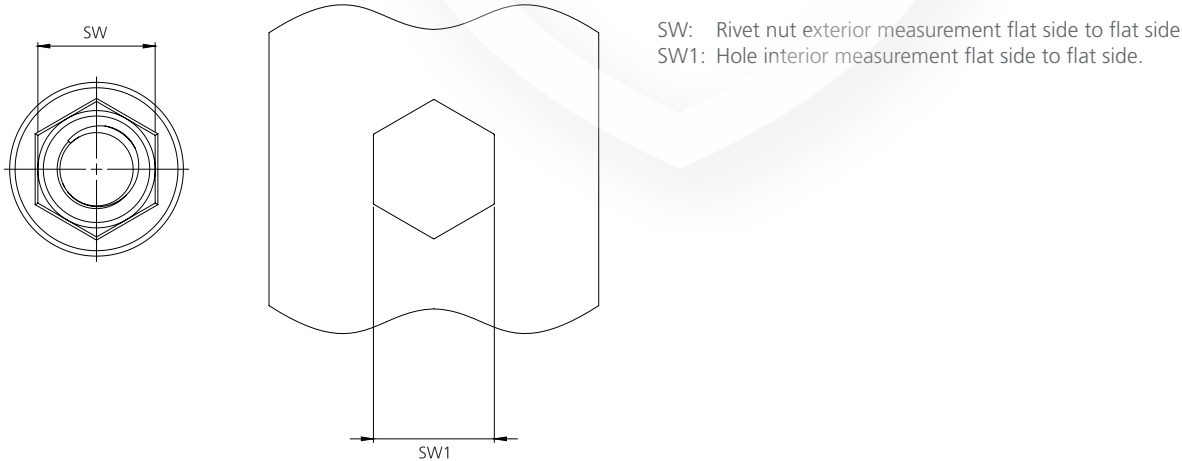


24-HKVO Series

Mastergrip | Hex Open End | Reduced countersunk head

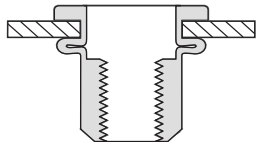
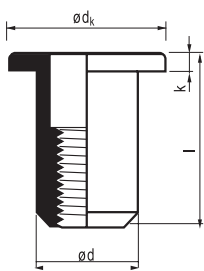


Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø SW			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M4  SW1 6.2 max	12.5	0.5-3.0	24H04KVO1	7.0	0.9	6.0	9.0	8200	2600
M5  SW1 7.2 max	14.0	0.5-3.0	24H05KVO1	8.0	0.9	7.0	11.0	11700	2600
M6  SW1 9.2 max	16.0	0.5-3.0	24H06KVO1	10.0	0.9	9.0	21.0	21500	3800
M8  SW1 11.2 max	17.0	0.5-3.0	24H08KVO1	12.0	0.9	11.0	30.0	24500	3900
M10  SW1 13.2 max	20.0	0.8-3.5	24H10KVO1	14.4	1.1	13.0	40.0	47000	4900



28-CO Series

Mastergrip | Open end | Cylindrical head



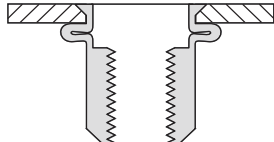
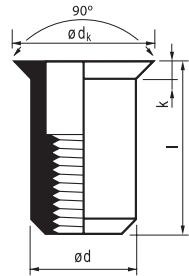
Stainless Steel - Polished
[A4]



Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M5	13.0	0.5-3.0	28M05CO1	10.0	1.1	6.9	11.0	11700	2900
 Ø 7.1 max									
M6	16.0	0.5-3.0	28M06CO1	12.0	1.6	8.9	22.2	18600	5300
 Ø 9.1 max									
M8	17.5	0.5-3.0	28M08CO1	15.0	1.6	10.9	30.5	26400	7800
 Ø 11.1 max									

28-VO Series

Mastergrip | Open end | Countersunk head



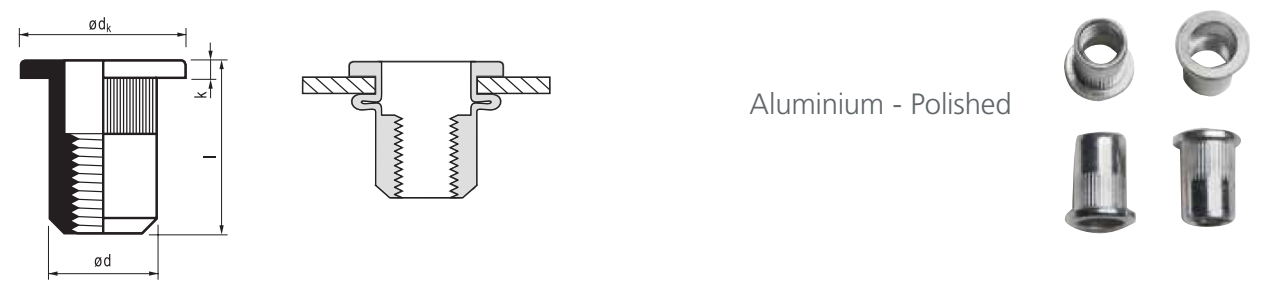
Stainless Steel - Polished
[A4]



Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M5	13.5	1.5-4.0	28M05VO1	9.4	1.5	6.9	10.0	11700	4000
 Ø 7.1 max									
M6	15.5	1.5-4.0	28M06VO1	11.4	1.5	8.9	21.0	20500	5300
 Ø 9.1 max									
M8	18.5	1.5-4.0	28M08VO1	13.4	1.5	10.9	30.2	27400	7600
 Ø 11.1 max									

20-CO Series

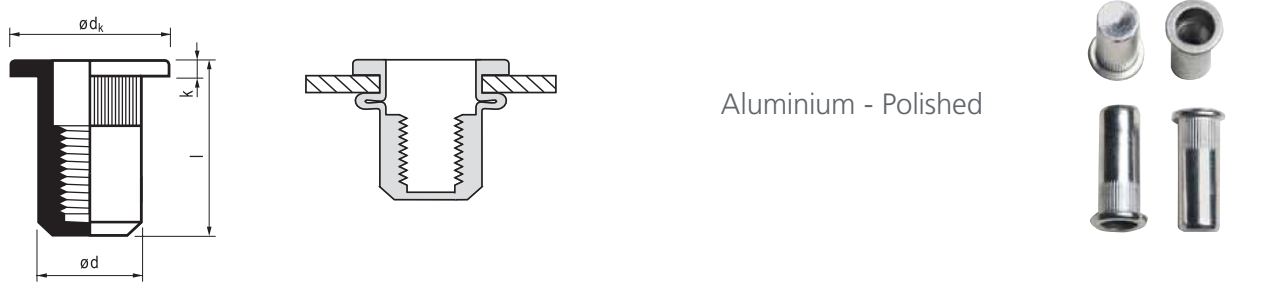
Mastergrip | Open end | Cylindrical head



Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M3	10.5	0.5-2.5	20M03CO1	7.0	0.9	4.9	2.0	2000	700
 Ø 5.1 max									
M4	11.0	0.5-3.0	20M04CO1	9.0	1.1	5.9	4.0	2800	1000
 Ø 6.1 max			CO2						
M5	13.0	0.5-3.0	20M05CO1	10.0	1.1	6.9	5.0	4900	1100
 Ø 7.1 max			CO2						
M6	16.0	0.5-3.0	20M06CO1	12.0	1.6	8.9	11.0	9300	2200
 Ø 9.1 max			CO2						
M8	17.5	0.5-3.0	20M08CO1	15.0	1.6	10.9	14.6	14700	2400
 Ø 11.1 max			CO2						
M10	19.0	0.5-3.0	20M10CO1	16.0	2.1	11.9	19.9	21500	3800
 Ø 12.1 max			CO2						
M12	25.0	1.0-4.0	20M12CO1	22.0	2.1	15.9	23.0	27400	4400
 Ø 16.1 max									

20-CG Series

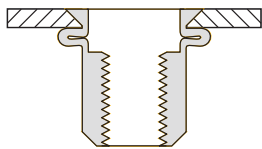
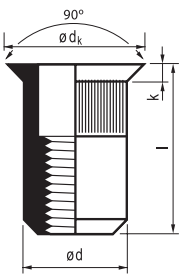
Mastergrip | Closed end | Cylindrical head



Thread size	l [+0/-0.5]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M4	16.5	0.5-3.0	20M04CG1	9.0	1.1	5.9	4.0	2800	1000
 Ø 6.1 max									
M5	19.0	0.5-3.0	20M05CG1	10.0	1.1	6.9	5.0	4900	1100
 Ø 7.1 max									
M6	22.0	0.5-3.0	20M06CG1	12.0	1.6	8.9	11.0	9300	2200
 Ø 9.1 max									
M8	26.5	0.5-3.0	20M08CG1	15.0	1.6	10.9	14.6	14700	2400
 Ø 11.1 max									
M10	28.5	0.5-3.0	20M10CG1	16.0	2.1	11.9	19.9	21600	3800
 Ø 12.1 max									

20-VO Series

Mastergrip | Open end | Countersunk head



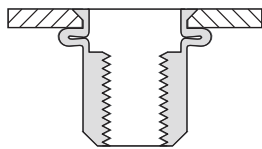
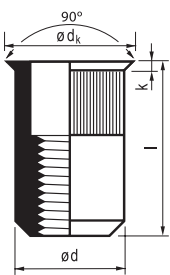
Aluminium - Polished



Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M4	12.5	1.5-4.0	20M04VO1	8.4	1.5	5.9	4.0	2800	1000
 Ø 6.1 max									
M5	13.5	1.5-4.0	20M05VO1	9.4	1.5	6.9	5.0	4900	1100
 Ø 7.1 max									
M6	15.5	1.5-4.0	20M06VO1	11.4	1.5	8.9	11.0	9300	2200
 Ø 9.1 max									
M8	18.5	1.5-4.0	20M08VO1	13.4	1.5	10.9	14.6	14700	2400
 Ø 11.1 max	21.0	4.0-6.5	VO2						
M10	21.0	2.0-4.5	20M10VO1	14.7	1.7	11.9	19.9	21500	3800
 Ø 12.1 max									

20-KVO Series

Mastergrip | Open end | Reduced countersunk head



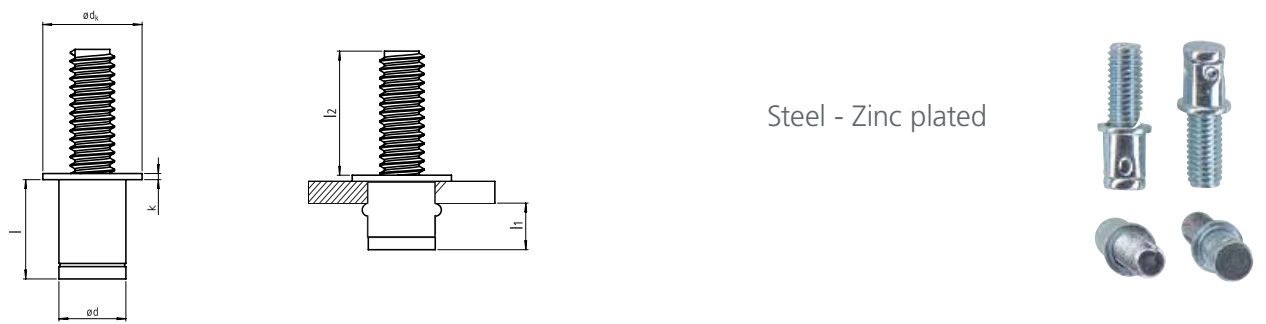
Aluminium - Polished



Thread size	l [+0.5/-0]		Item nr.	Ø dk	k	Ø d			
[mm]	[mm]	[mm]		Max. [mm]	Max. [mm]	Max. [mm]	[Nm]	[N]	[N]
M4	10.0	0.5-3.0	20M04KVO1	7.0	0.7	5.9	4.0	2800	1000
 Ø 6.1 max									
M5	11.5	0.5-3.0	20M05KVO1	8.0	0.7	6.9	4.5	4900	1100
 Ø 7.1 max									
M6	14.0	0.5-3.0	20M06KVO1	10.0	0.7	8.9	9.6	9300	1900
 Ø 9.1 max									
M8	15.5	0.5-3.0	20M08KVO1	12.0	0.7	10.9	14.0	14700	2000
 Ø 11.1 max									

29 Series

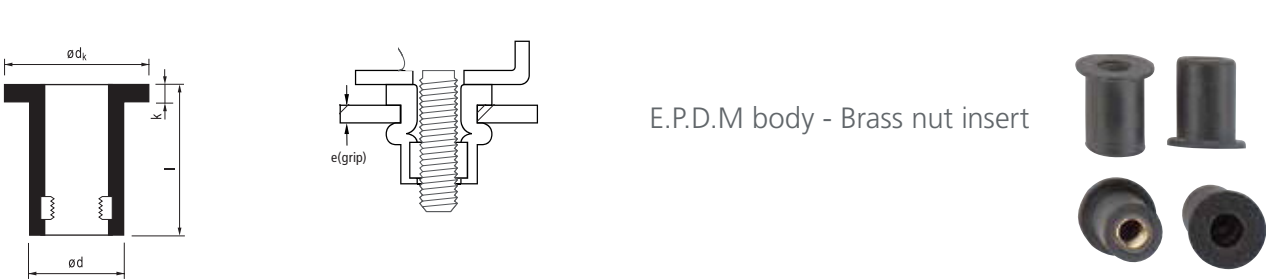
Masterbolt | Cylindrical head



Thread size	l		Item nr.	Ø dk	k	Ø d	l1	l2
[mm]	Nom. [mm]	[mm]		Nom. [mm]	Nom. [mm]	Max. [mm]	Nom. [mm]	Min. [mm]
M4	8.0	0.5-1.8	29M042010	8.0	0.5	5.4	3.5	10
 Ø 5.6 max	8.0	0.5-1.8	2015	8.0	0.5	5.4	3.5	15
M5	9.0	0.5-1.9	29M052010	9.0	0.75	6.5	4.5	10
 Ø 6.7 max	9.0	0.5-1.9	2015	9.0	0.75	6.5	4.5	15
M6	10.0	0.5-2.4	29M062510	10.0	1.0	7.7	5.0	10
 Ø 7.9 max	10.0	0.5-2.4	2515	10.0	1.0	7.7	5.0	15
	11.5	2.5-3.9	4010	10.0	1.0	7.7	5.0	10
	11.5	2.5-3.9	4015	10.0	1.0	7.7	5.0	15
M8	12.5	0.5-2.9	29M083015	12.0	1.5	9.8	7.0	15
 Ø 10.0 max	12.5	0.5-2.9	3020	12.0	1.5	9.8	7.0	20
	15.0	3.0-4.8	5015	12.0	1.5	9.8	7.0	15
	15.0	3.0-4.8	5020	12.0	1.5	9.8	7.0	20

25-CO Series

MFX® Rubnut™ | Open end | Cylindrical head



Thread size	l	 e	Item nr.	Ø dk	k	Ø d	 Tightning torque [Nm]
[mm]	Nom. [mm]	[mm]		Nom. [mm]	Nom. [mm]	Max. [mm]	
M3	12.6	0.4-4.0	25M03CO040	11.0	1.2	7.9	0.25-0.50
 Ø 8.3 max							
M4	12.6	0.4-4.0	25M04CO040	11.0	1.2	7.9	0.25-0.40
 Ø 8.3 max							
M5	14.1	0.4-4.9	25M05CO049	12.7	0.9	9.6	0.35-0.50
 Ø 9.9 max	21.5	7.9-11.4	CO116	14.0	0.9	9.6	0.30-0.90
	26.5	7.9-15.0	CO163	14.0	1.3	9.6	0.30-0.70
	39.0	20.5-30.0	CO300	14.0	1.3	9.6	0.60-1.00
M6	16.0	0.4-4.0	25M06CO028	16.0	1.3	12.7	0.60-1.00
 Ø 13.0 max	21.1	0.8-4.7	CO047	19.0	4.8	12.7	0.80-1.00
	26.7	6.4-11.5	CO110	16.3	2.0	12.7	0.80-1.00
M8	18.3	0.4-4.0	25M08CO040	21.5	3.2	15.9	1.00-1.50
 Ø 16.2 max	27.9	4.0-9.5	CO095	21.5	5.7	15.9	1.00-1.60
 Ø 18.3 max	50.0	15.0-35.0	25M08CO390	20.0	1.6	18.0	3.00-4.00
M10	55.0	19.0-38.0	25M10CO400	22.5	1.3	20.0	4.50-5.50
 Ø 20.3 max							

Stanley Black & Decker Installation Tools

A Tool for Every Application

Masterfix® blind rivets and blind rivet nuts can be installed using a range of tools from the Stanley Black & Decker family. This includes popular brands such as DEWALT™ and POP®, providing users with multiple options for their fastening needs.

From hand tools to pneumatic or hydraulic options, and battery-powered tools, we offer a suitable tool to install every fastener for specific customer applications. This flexibility in installation technologies is part of the broader offering from Stanley Black & Decker, demonstrating the company's holistic approach to fastening solutions for industrial applications.

How to Choose the Right Tool for Installing Masterfix®

The tables below shows which tool we recommend for a particular fastener size and material.

FOR BLIND RIVETS		Ø 2.4			Ø 3.0 - 3.2			Ø 4.0			Ø 4.8 - 5.0			Ø 6.0			Ø 6.4		
POWER	MODEL	Aluminium	Steel	Stainless Steel	Aluminium	Steel	Stainless Steel	Aluminium	Steel	Stainless Steel	Aluminium	Steel	Stainless Steel	Aluminium	Steel	Stainless Steel	Aluminium	Steel	Stainless Steel
Hand Tool	TT55D	•	•	•	•	•	•	•	•										
	PS15X	○	○	○	•	•	•	•	•	•	•	•							
	PS25X				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	PS40X				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
	PS45X				•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Hydro-pneumatic	EZM1000				•	•	•	•	•	•	•	•	•						
	EZM2000							•	•	•	•	•	•	•	•	•	•	•	•
Battery	DCF403	•	•	•	•	•	•	•	•	•	•	•	•						
	DCF414										•	•	•	•	•	•	•	•	•

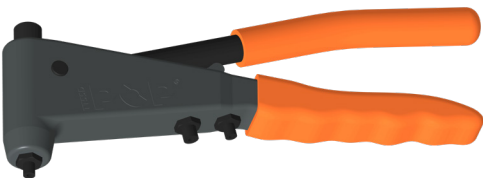
FOR RIVET NUTS		M3			M4			M5			M6			M8			M10			M12		
POWER	MODEL	Aluminium	Steel	Stainless Steel	Aluminium	Steel	Stainless Steel	Aluminium	Steel	Stainless Steel	Aluminium	Steel	Stainless Steel	Aluminium	Steel	Stainless Steel	Aluminium	Steel	Stainless Steel	Aluminium	Steel	Stainless Steel
Hand Tool	TT55N	•	•	•	•	•	•	•	•	•	•	•										
	PNT110X	•	•	•	•	•	•	•	•	•	•											
	PNT210X				○	○	○	○	○	○	•	•	•	•	•	•	•	•	•	•	•	
	PNT310X				○	○	○	•	•	•	•	•	•	•	•	•	•	•	•	•	○	○
	PNT410X							•	•	•	•	•	•	•	•	•	•	•	•	○	○	
	PNT510X				○	○	○	•	•	•	•	•	•	•	•	•	•	•	•			
Hydro-pneumatic	EZM4000	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•	•		•	•	
	XGrip N09QI	•	•		•	•	•	•	•	•	•	•	•	•	•	•	•		•	•		

• Standard ○ Optional - equipment sold separately

Blind Rivet Hand Tools

TT55D Classic Hand Plier Rivet Tool

- Ideal for on-site or low production use
- Robust and lightweight
- Rivet retaining handle design for one-handed riveting
- Supplied with nosepieces for 2.4mm, .0/3.2mm and 4.0mm rivets
- Supplied with nosepiece wrench



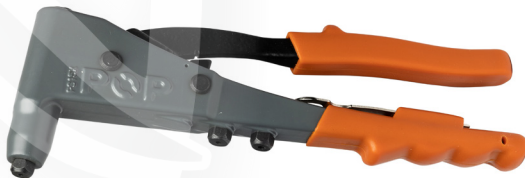
Specifications

Weight	0.4kg
Length	229mm
Item No.	TT55D

Rivet Material	Rivet Diameter [mm/(in)]		
	2.4 & 2.8 (3/32")	3.0 & 3.2 (1/8")	4.0 (5/32")
Aluminium	•	•	•
Steel	•	•	•
Stainless Steel	•	•	

PS15X Professional Hand Plier Rivet Tool

- Professional, robust cast aluminium and steel construction
- Contoured handle grips for comfort
- Rivet retaining handle design for one-handed riveting
- Supplied with nosepieces for 3.0/3.2mm, 4.0mm and 4.8/5.0mm rivets
- Supplied with nosepiece wrench



Specifications

Weight	0.6kg
Length	250mm
Item No.	PS15X

Rivet Material	Rivet Diameter [mm/(in)]		
	3.0 & 3.2 (1/8")	4.0 (5/32")	4.8 & 5.0 (3/16")
Aluminium	•	•	•
Steel	•	•	•
Stainless Steel	•	•	

PS25X Heavy Duty Lazy Tong Rivet Tool

- Professional heavy duty grade, robust aluminium and steel construction
- Contoured handle grip for comfort
- Supplied with nosepieces for 3.0/3.2mm, 4.0mm, 4.8/5.0mm, 6.0mm and 6.4mm rivets



Specifications

Weight	2.4kg
Length closed	305mm
Length extended	805mm
Item No.	PS25X

Rivet Material	Rivet Diameter [mm/(in)]			
	3.0 & 3.2 (1/8")	4.0 (5/32")	4.8 & 5.0 (3/16")	6.0 & 6.4 (1/4")
Aluminium	•	•	•	•
Steel	•	•	•	•
Stainless Steel	•	•	•	•

Blind Rivet Hand Tools

PS40X Professional Lever Rivet Tool

- Professional, robust steel construction
- Optimal pulling force
- Adjustable front sleeve to optimise stroke set up
- Integral removable stem collector
- Supplied with nosepieces for 3.0/3.2mm, 4.0mm, 4.8/5.0mm, 6.0mm and 6.4mm rivets
- Supplied with nosepiece wrench



Specifications

Weight	1.9kg
Length	515mm
Item No.	PS40X

Rivet Material	Rivet Diameter [mm/(in)]			
	3.0 & 3.2 (1/8")	4.0 (5/32")	4.8 & 5.0 (3/16")	6.0 & 6.4 (1/4")
Aluminium	•	•	•	•
Steel	•	•	•	•
Stainless Steel	•	•	•	•

PS45X Heavy Duty Lever Rivet Tool

- Professional standard, heavy duty steel construction
- Multi-position telescopic levers extend to maximize leverage and pulling force
- Adjustable front sleeve to optimise stroke set up
- Non-extended position makes tool more compact
- Integral removable stem collector
- Supplied with nosepieces for 3.0/3.2mm, 4.0mm, 4.8/5.0mm, 6.0mm and 6.4mm rivets
- Supplied with nosepiece wrench



Specifications

Weight	2.6kg
Length	490mm
Length extended	665mm
Item No.	PS45X

Rivet Material	Rivet Diameter [mm/(in)]			
	3.0 & 3.2 (1/8")	4.0 (5/32")	4.8 & 5.0 (3/16")	6.0 & 6.4 (1/4")
Aluminium	•	•	•	•
Steel	•	•	•	•
Stainless Steel	•	•	•	•

Blind Rivet Hydro-Pneumatic Tools

EZM1000 / EZM2000

The EZMaster hydro-pneumatic tools combine strength and reliability with a sleek, attractive and ergonomically sound design and are very well suited for continuous use.

The hydraulic 'housing' is made of ABS and the pneumatic 'housing' 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.



All Masterfix® Power tools meet the current CE-standard.



Blind Rivet Hydro-Pneumatic Tools

EZM1000

New hydro-pneumatic blind riveting tool with extraction. mandrel collector and suspension bracket.

Specifications

Capacity	ø3.0 - 5.0mm
Weight	1.25kg
Dimensions	264 x 272 x 102mm
Stroke	17.0mm
Pressure required	5 - 7Bar
Traction power(6Bar)	7.3kN (6Bar)
Equipment	Nose pieces ø3.0 - 5.0mm
Item No.	T451EZM1000



EZM2000

New hydro-pneumatic blind riveting tool with extraction. mandrel collector and suspension bracket.

Specifications

Capacity	ø4.0 - 6.4mm
Weight	1.65kg
Dimensions	275 x 272 x 125mm
Stroke	21.0mm
Pressure required	5 - 7Bar
Traction power(6Bar)	12.5kN (6Bar)
Equipment	Nose pieces ø4.0 - 6.4mm
Item No.	T451EZM2000



DEWALT™ Battery Powered Blind Rivet Tools

DCF403

- Install aluminium, steel, and stainless-steel blind rivets up to 4.8mm (3/16") with the Battery Powered 4.8mm (3/16") Rivet Tool
- Other features include a tool-free nose piece change and on-board nose piece storage help to maximise productivity on the jobsite

Specifications

Capacity	ø2.4 - 4.8mm
Weight	1.60kg bare unit
Dimensions	220 x 270mm
Stroke	25mm
Battery Platform	DEWALT 18V XR
Pull Force	10kN
Equipment	Nose pieces ø2.4, 3.2, 4.0 and 4.8mm
Item No.	EU: DCF403-2XR-QW UK: DCF403-2XR-GB



DCF414

- Install aluminium, steel, and stainless-steel blind rivets up to 6.4mm (1/4") with the Battery Powered 6.4mm (1/4") Rivet Tool
- Other features include a tool-free nose piece change and on-board nose piece storage help to maximise productivity on the jobsite

Specifications

Capacity	ø4.8 - 6.4mm
Weight	1.60kg bare unit
Dimensions	220 x 270mm
Stroke	30mm
Battery Platform	DEWALT 18V XR
Pull Force	20kN
Equipment	Nose pieces ø4.8, 6.0 and 6.4mm
Item No.	EU: DCF414-2PS-QW UK: DCF414-2PS-GB



Blind Rivet Nut Hand Tools

TT55N

Compact and practical hand tool for setting blind rivet nuts. Equipped with stroke setting mechanism and quick release mandrel system.

- Placing capacity: M3 up to M6

Specifications

Weight	0.5kg
Length	190mm
Item No.	TT55N



PNT110X Professional Hand Plier

Professional standard tool. robust cast aluminium and steel design. Ideal for maintenance, repair and site work.

- Placing capacity: M3 up to M6 aluminium, M5 steel and stainless steel
- Contoured handle grips for comfort
- Supplied with mandrel and nosepieces sizes M3 - M6

Specifications

Weight	0.8kg
Length	240mm
Item No.	PNT110X



PNT210X Ratchet Tool

Heavy duty high capacity tool with placing capacity up to M12 steel.

- Placing capacity: M4 up to M12
- Heavy duty steel construction
- Supplied with mandrel and nosepieces sizes M6 - M12

Specifications

Weight	1.3kg
Length	210mm
Item No.	PNT210X





Blind Rivet Nut Hand Tools

PNT310X Spindle Lever Tool

A heavy duty steel construction makes this professional lever tool the best choice for those who need optimum pulling forces.

- Placing capacity: M4 up to M12 aluminium. M10 steel & M8 stainless steel
- Quick-reverse spin arm for fast withdrawal from set rivet nuts
- Stroke adjustment with scale display
- Supplied with mandrel and nosepieces sizes M5 - M10

Specifications

Weight	2.4kg
Length	540mm
Item No.	PNT310X



PNT410X Lever Tool

Long lever tool with optimum pulling force for placing up to M12 Steel and M10 Stainless Steel.

- Placing capacity: M5 up to M12 steel. M10 stainless steel
- Professional standard. heavy duty steel construction
- Stroke adjustment with scale display

Specifications

Weight	2.1kg
Length	580mm
Item No.	PNT410X



PNT510X

Powerful tool for setting blind rivet nuts and bolts. Equipped with stroke setting mechanism ensuring every blind rivet nut and bolt are set with equal clamping forces.

- Placing capacity: M4 up to M10
- Equipped with stroke setting mechanism
- Quick release mandrel system

Specifications

Weight	2.5kg
Length	555mm
Item No.	PNT510X



Blind Rivet Hydro-Pneumatic Tools

EZM4000

Light weight hydro-pneumatic blind rivet nut tool.

- Mandrels, M4-M8
- Tool-free stroke setting mechanism with a scale on the front sleeve
- Quick release mandrel system
- Advanced hydraulic system for oil-free service
- Release button for motor release
- 360° revolvable air supply unit

Specifications

Capacity	M3 - M12 Aluminium/Steel M3 - M10 Stainless Steel
Weight	1.65kg
Dimensions	260 x 270 x 102mm
Stroke	7.0mm
Pressure required	5-7Bar
Traction power (6Bar)	18.5kN
Equipment	Conversion kits: M4 - M8
Also available	Separate conversion kits: M3. M10. M12
Item No.	T452EZM4000



XGRIP N09QI

The Masterfix® range of hydro-pneumatic XGRIP tools has been developed with an emphasis on reliability, ergonomics, and continuous operations.

- Equipped with quick interchange system
- Pressure regulation system to adjust applied force
- Automatic right and left-hand air connection

Specifications

Capacity	M3 - M12 Aluminium/Steel M4 - M8 Stainless Steel
Weight	2.00kg
Dimensions	262 x 270 x 125mm
Stroke	8.0mm
Pressure required	5-7Bar
Traction power (6Bar)	23.0kN
Item No.	T45209N09QI



STANLEY®

Engineered Fastening



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