

POP[®]

Riveting Systems



Edition 05 2013

emhart.eu

EMHART[®]
TEKNOLOGIES

Expertise in Fastening Solutions

With over 100 years experience in the design and manufacture of assembly technology, Emhart has the expertise to provide fastening solutions to a wide range of industries from Automotive, Construction, and Electronics through to sheet metal assembly and general industry.

We offer consulting, technical advice, a wide range of volume parts and high quality setting equipment to meet the varying needs of our customers.



Emhart in Europe

Emhart has experienced technical experts and application engineers available throughout Europe ready to support customers with application and assembly processes and fastener specifications.

We service our European customers directly through our manufacturing and warehousing facilities around Europe or through our network of highly experienced distributors.



- Emhart Facilities and Distribution Network
- Distribution Network

Riveting Systems

www.emhart.eu

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POP® Rivets

The POP® rivet range includes a wide variety of high quality fasteners that will meet the needs of your demanding manufacturing assembly process.

The POP® range now includes soft setting rivets and rivets with superior clamping performance and grip range capabilities. Available in Steel, Stainless Steel, Aluminium, Copper & Nickel Copper alloy, POP® rivets are widely respected throughout the industry.

Don't compromise - ask for Genuine POP®.



Hand Tools, Power Tools and Riveting Systems

POP® setting equipment includes a range of tools and systems designed to offer the user the best features available in the market today. Durable, reliable and high quality, these tools and systems can increase the efficiency of your production lines.

The POP® rivet installation sequence is simple.

1. Place the mandrel of the POP® rivet into the nosepiece of the setting tool.
2. Insert the POP® rivet body through the hole of the materials to be fastened.
3. Pull the trigger of the setting tool. The POP® Rivet body clamps the materials together and expands to form a secondary head on the blind side of the joint. The mandrel breaks at a pre-determined force.
4. The materials are now fastened together.



Rivet Types



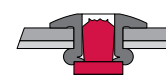
Break Stem Open

General purpose open rivet available in wide range of materials and head styles. Suitable for applications with normal load bearing requirements.



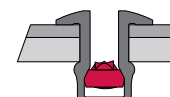
Vgrip®

High performance, Multi-Grip rivet with excellent clamp properties and a wide blind side spread. Also features a positively retained mandrel head and grooved stem for optimum tool jaw life.



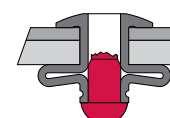
Closed End

Designed with a completely closed body, this rivet is ideal for applications that need to be water/pressure tight or where mandrel head retention is paramount.



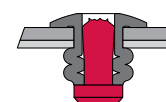
LSR (Load Spreading Rivet)

Load spreading characteristics make this rivet ideal for use in vulnerable, friable and the softest of materials.



MGR (Multi-Grip Rivet)

The Multi-Grip rivet is designed to accommodate a wider grip range than other rivets allowing for lower inventory levels. Also provides good, rattle free, joint construction even in irregular holes.



FSR (Flush Setting Rivet)

Open rivet that sets flush on both sides of the application when set into a double countersunk hole. This space saving rivet offers near zero protrusion and eliminates loose mandrels.



Peel

Ideal for joining softer and more brittle materials such as plastics, rubber, wood, GFRP or laminates.

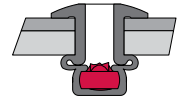


Rivet Types



TVD

This unique closed end stainless steel range provides additional support to assemblies where weak or thin blind side materials are present.



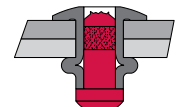
T-Rivet

The T-Rivet offers all the features of a peel rivet with the added benefit of pull-up. Improved shear strength is also achieved due to mandrel head retention after setting.



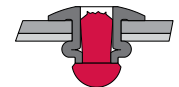
HS (High Strength)

The POP® rivet with the strength of an M6 Bolt also provides excellent claim properties, a positively retained mandrel head and wide blind side expansion.



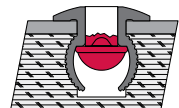
HR (High Retention)

Exceptional pull-up capability and increased blind side expansion give the perfect combination for overcoming air gaps whilst spreading the load during setting. Excellent mandrel head retention and rattle resistance after setting.



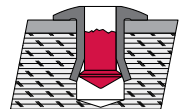
Grooved

Aluminium rivet for fixing into wood and other soft/fibrous base materials. Suitable for use in blind non-through holes.



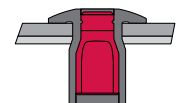
STR

This steel rivet has a peeling body ideal for use in wood and providing high resistance to pull out loads and mandrel head retention.



Ultra-Grip

Ultra-Grip (UG) Structural POP® Rivets offer high shear strength across wide grip ranges. The product also features excellent pull-up capability, provides hole filling and the resultant set product is rattle free.



Rivet Materials

POP® Rivets are available in Steel, Stainless Steel, Nickel Copper Alloy, Copper and several grades of Aluminium to meet the requirements of a wide variety of applications.



Rivet Material Selection

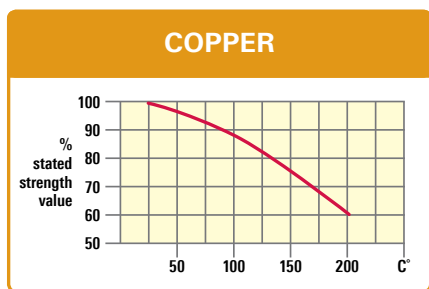
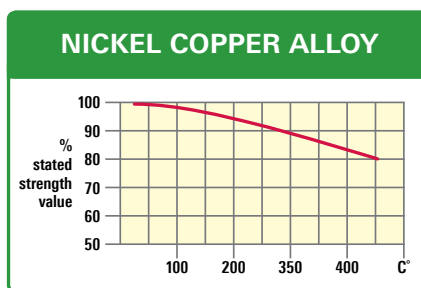
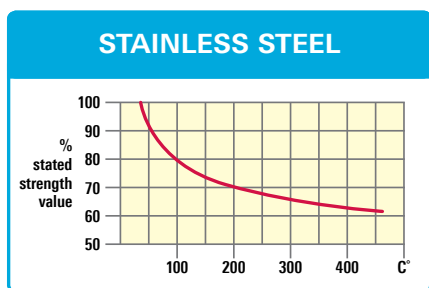
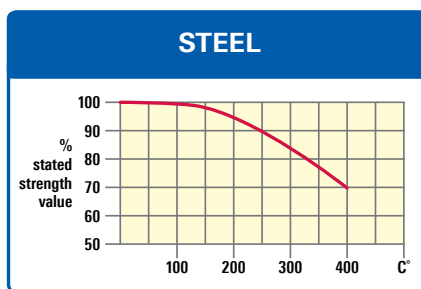
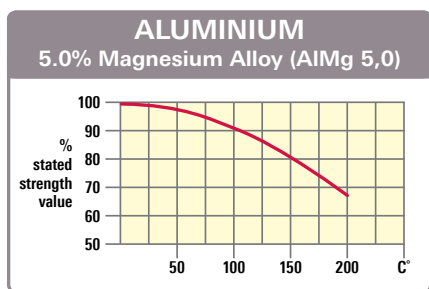
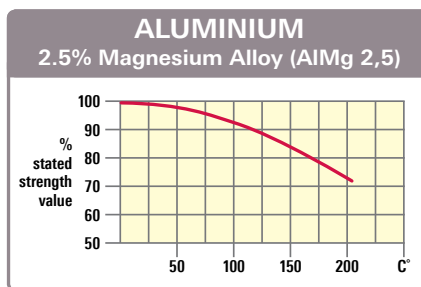
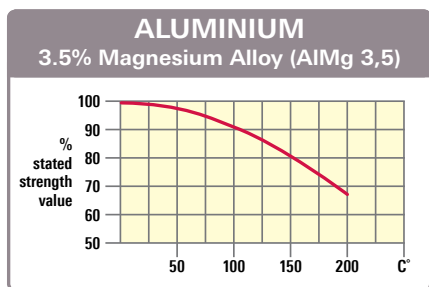
Generally the rivet selected should have the same physical and mechanical properties as the components to be joined.

ALUMINIUM 3.5% Magnesium Alloy (AlMg 3,5)	General purpose use
ALUMINIUM 2.5% Magnesium Alloy (AlMg 2,5)	Softer setting aluminium suitable for more vulnerable materials
ALUMINIUM 5.0% Magnesium Alloy (AlMg 5,0)	Harder aluminium suitable for applications requiring higher shear and tensile strengths
STEEL	General purpose use
STAINLESS STEEL	Suitable for applications in hostile or clinical environments
NICKEL COPPER ALLOY	Suitable for extremely hostile and high temperature environments
COPPER	Provides good electrical and thermal conductivity

Elevated Temperature Performance

Elevated Temperature Performance

Elevated temperature strengths will vary from the figures quoted in the data tables.
The following performance curves are offered for guidance.



Rivet Head Styles

Head Styles

POP® Rivets are available with the following flange configurations:



**Standard Low Profile
Domed Head**

Standard low profile head, suitable for most applications.



Large Flange

For use where thin or vulnerable materials are fastened to a rigid backing. The large flange is also useful for covering enlarged holes or slots in the upper component.



120° Countersunk

For use wherever a flush surface is required.

Customer Specific Solutions*

We support the design and application needs of our customers through highly skilled and experienced application and design engineers.

If you require a rivet with a special feature or if you need advice as to the best solution for your application please contact Emhart Customer Service with the following application details:-

- Application description
- Materials to be fastened - material types, thicknesses
- Hole sizes
- Annual volume
- Extraordinary fastener requirements

* Subject to minimum order quantities

Typical Customer Specific Solutions:



**Extended Length
Grooved Mandrel**



Collar Assembly



Splined Rivet Body

Rivet Finishes

Finishes

POP® Rivets in Steel are supplied with Zinc and Clear passivation as standard and are RoHS, EoIV and WEEE compliant.

POP® Rivets in Nickel Copper are supplied zinc plated.

There are a wide variety of other finishes also available for aesthetic and environmental needs including:- Xylan, Anodisation & Zinc Nickel.



We offer the complete colour palette of paint finishes.

We can also match your application to a paint colour if required. Please enquire to Emhart Customer Service.

Subject to minimum order quantities.



POP® Rivets are supplied with the following finishes as standard:-

Standard Finishes

Base Material	Finish
Aluminium	Clean
Copper	Clean
Steel	Zinc Plate & Clear CrVI Free Passivate
Nickel Copper	Zinc Plate and Clear Passivate
Stainless Steel	Clean

Alternative Finishes

Finish Code	Description	Colour	Base Material	Thickness
042	Anodise	Black	Aluminium	1 - 2µm
772	Xylan Paint	Black	Aluminium	8µm
275	Epoxy Paint	White	Aluminium	8µm
293	Epoxy Paint	Black	Aluminium	8µm
217	Zinc & Xylan Paint	Black	Steel	5+6µm
222	Zinc	Clear	Steel	8µm
223	Zinc Nickel	Black	Steel	8µm
224	Zinc Nickel	Clear	Steel	8µm

Our corrosion resistant testing procedures conform to automotive industry standards. For corrosion resistance performance details please contact Emhart Customer Service.

Technical Data

Galvanic Corrosion

Galvanic corrosion can occur where two dissimilar metals are in contact in the presence of an electrolyte.

Where metals cannot be exactly matched, a coating such as zinc will help to minimise the area of contact.

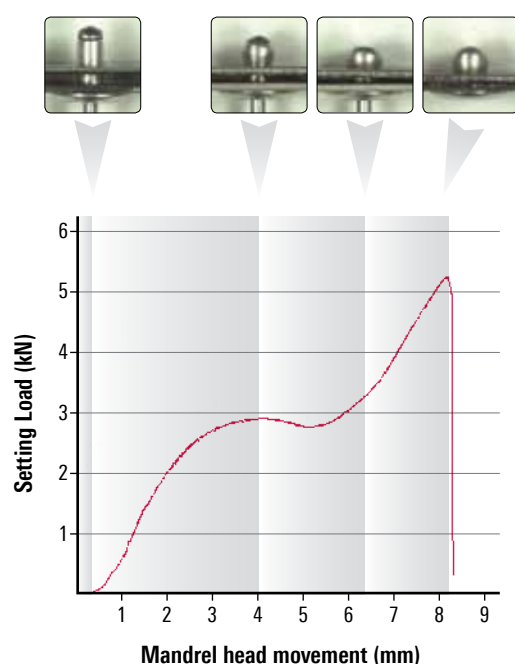
The following table is a general guide to the possible effect of corrosion on the rivet body when in contact with various component materials.

Metal Contact Chart

RIVET MATERIAL	CONTACT METAL					
	NC	SS	Cu	CS	AL & A	Zn
Nickel Copper Alloy (NC)						
Stainless Steel (SS)						
Copper (Cu)						
Carbon Steel (CS)						
Aluminium and Alloys (Al & A)						
Zinc (Zn)						

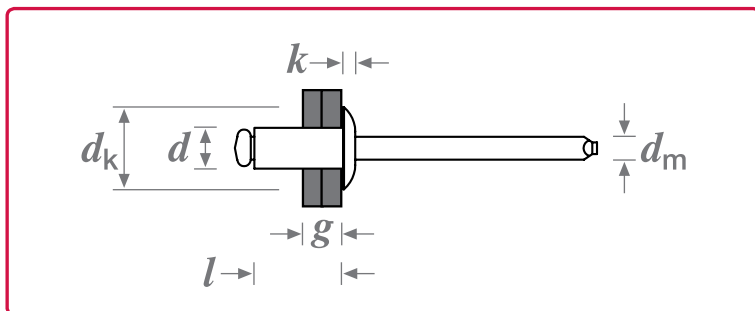
Key: ■ None ■ Slight Corrosion ■ Acceleration of Corrosion ■ High Acceleration ■ Not Recommended

Typical Setting Cycle for an Open Rivet



- 1** The rivet is placed into the holes of the work pieces
- 2** The setting tool applies a load to the mandrel and the mandrel head starts to enter the rivet body
- 3** Continued pulling of the mandrel causes the rivet body to expand, clamping the work piece plates
- 4** The pulling load gradually increases until the plates are clamped firmly together and, at a predetermined setting load, the mandrel breaks

Explanation of Table Legends



d

Nominal Diameter Min-Max Diameter

The nominal diameter of the rivet body and the minimum and maximum diameter dimensions are stated.

l

Body Length (+/- 0.5mm)

The nominal rivet body length is stated. A tolerance of +/- 0.5mm should be allowed for.

g

Grip Range (Min-Max)

This is the recommended thickness range over which the body length will consistently provide a good setting in a hole of the specified diameter.

d_h



Hole Size

This is the recommended diameter range of the drilled/punched hole which should be burr free.

d_k

Flange Diameter (Min-Max)

The rivet flange diameter is stated at minimum and maximum dimensions.

k

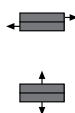
Flange Thickness (Max)

The maximum flange thickness is stated.

d_m

Nominal Mandrel Diameter

The nominal (or maximum value for grooved mandrels) is shown to assist in the selection of the correct rivet tool nose piece.



Shear / Tensile Performance

The shear and tensile figures quoted are indicative of the performance of the rivet. Actual performance will depend on workpiece material types and thickness.

Rivet Usage Guide

The POP® rivet range has been designed to meet the needs of a wide variety of industry requirements.

The technical features and setting characteristics of each range are suitable for many different applications. An overview of typical rivet usage is shown here.

General Industry

- ✓ Low load bearing
- ✓ Multiple thicknesses



Break Stem Open

General purpose rivet



Multi-Grip Rivet

General purpose Multi-Grip rivet accommodates a wide grip range



Automotive

- ✓ Multiple thicknesses
- ✓ Pull up
- ✓ Locked-in mandrel
- ✓ Composite materials



Vgrip®

Multi-Grip rivet with excellent claim properties



Load Spreading Rivet (LSR)

Load spreading rivet ideal for use in vulnerable material



Appliance

- ✓ Water / Air tight
- ✓ Locked-in mandrel
- ✓ Wide blind side



Closed End

Water / pressure tight



TVD

Unique closed end stainless steel rivet for additional support



Rivet Usage Guide

Transport

- ✓ Improved strength
- ✓ Multiple thicknesses
- ✓ Pull up
- ✓ Locked-in mandrel



Ultra-Grip Rivet (UG)

High shear and tensile strength with wide grip range capability



High Strength Rivet (HS)

6.4mm diameter POP® rivet range with the strength of an M6 bolt



Electronics

- ✓ Low profile
- ✓ Multiple thicknesses



Flush Setting Rivet (FSR)

Sets flush on both sides of the application



Vgrip®

Multi-Grip rivet with excellent claim properties



Construction

- ✓ Wood to metal
- ✓ Locked-in mandrel
- ✓ Improved strength



Grooved

Good for wood and blind non-through holes



Ultra-Grip Rivet (UG)

High shear and tensile strength with wide grip range capability



Product Index

BODY STYLE	MANDREL		
	Steel	Stainless Steel	Aluminium

Break Stem Open

Micro Rivet

Domed Head	21		
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Aluminium 3.5%

Domed Head	22	27	
Large Flange	24		
Countersunk	25, 26		

Aluminium 2.5%

Domed Head			28
Large Flange			29

Soft Set

Domed Head			37
------------	--	--	----

Steel

Domed Head	44		
Large Flange	46		
Countersunk	47		

Stainless Steel

Domed Head		56	
Large Flange		57	
Countersunk		57	

Nickel Copper Alloy

Domed Head	62	64	
Countersunk	63	65	

Copper

Domed Head	67		
Terminal Tag	68		

BODY STYLE	MANDREL		
	Steel	Stainless Steel	Aluminium

Vgrip®

Aluminium

Domed Head	30		
Large Flange	30		

Steel

Domed Head	48		
Large Flange	48		

Closed End

Aluminium

Domed Head	38	41	
Large Flange	39		
Countersunk	40	42	

Steel

Domed Head	54		
------------	----	--	--

Stainless Steel

Domed Head		59	
------------	--	----	--

Nickel Copper Alloy

Domed Head	66		
------------	----	--	--

Copper

Domed Head	68	69	
Countersunk	69		

LSR (Load Spreading Rivet)

Aluminium

Domed Head		31	
Large Flange		31	

Steel

Domed Head	51		
------------	----	--	--

BODY STYLE

MANDREL

Steel Stainless Steel Aluminium

MGR (Multi-Grip Rivet)

Aluminium

Domed Head 32

Large Flange 33

Steel

Domed Head 50

Large Flange 50

FSR (Flush Setting Rivet)

Steel

Countersunk 49

Peel

Aluminium

Domed Head 34

Large Flange 34

TVD

Stainless Steel

Domed Head 60

T-Rivet

Aluminium

Domed Head 35

HS (High Strength)

Aluminium

Domed Head 36

Steel

Domed Head 53

BODY STYLE

MANDREL

Steel Stainless Steel Aluminium

HR (High Retention)

Steel

Domed Head 52

Stainless Steel

Domed Head 58

Grooved

Aluminium

Domed Head 36

STR

Steel

Domed Head 51

Ultra-Grip

Aluminium

Domed Head 43

Countersunk 43

Steel

Domed Head 55

Countersunk 55

Stainless Steel

Domed Head 61

Countersunk 61

Feature Icon Glossary

Rivet Features and Benefits

POP® Rivets are designed to provide setting features to benefit the relevant application. See the Icon Glossary below:

General Purpose



General Purpose Rivets can be used in a wide range applications with normal load bearing requirements.

Load Spreading



Load Spreading rivets are designed specifically for applications with soft, weak and brittle materials. The rivets are designed with "legs" or "petals" that expand, reducing the setting force required.

Wide Grip Range



Rivets designed to accommodate a wider grip range provide the benefit of reducing inventory and easing line-side product control.

No Rattle



Designed to provide a rattle free joint, there are many POP® Rivet ranges with the No Rattle feature.

Water / Pressure Tight



Designed with a completely closed body, these rivets are ideal for applications that need to be water/pressure tight.

Low Profile



For applications where space is at a premium, rivets with Low Profile are the ideal choice. Designed to set flush on both sides of the application these rivets provide an unobtrusive setting.

High Pull-Up Capability



Rivets designed with High Pull-Up Capability can overcome air gaps that are present before assembly and bring the application pieces together before final rivet setting takes place.

Improved Strength



Structural POP® rivets have Improved Strength when compared to other POP® rivet ranges. They are ideal for Heavy Duty applications.

Positively Retained Stem



Rivets designed with Positively Retained Stem retain the mandrel stem in the shear plane after setting. This increases strength, prevents rattle and stops mandrel heads falling into enclosed applications.

Good For Wood



Rivets designed to fasten within the no-through hole that has been drilled into the wood or other soft/fibrous materials. The rivets expand and "bite" into the wood creating a firm, secure setting.

Large Secondary Expansion



Large Secondary Expansion has the benefit of spreading the load during the rivet setting process. This prevents buckling of the blind side material. The subsequent set end provides additional support and increased tensile strength.

Lead-in Feature

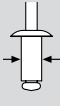
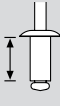
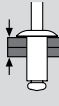


A smooth, rounded profile to assist rivet entry into the application hole.



Micro Rivet Domed Head

Aluminium 3.5% Magnesium Alloy
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
2.0 2.08 - 2.13	4.6	Up To 1.6	TAPD20M1BS	2.03 - 2.13	3.60 - 4.00	0.75	1.10	370	560	62996	1,000	0.43
	6.2	1.6 - 3.2	TAPD20M2BS							62997	1,000	0.46
	7.9	3.2 - 4.8	TAPD20M3BS							62998	1,000	0.50
	9.5	4.8 - 6.4	TAPD20M4BS							63132	1,000	0.54
	11.2	6.4 - 8.0	TAPD20M5BS							63118	1,000	0.57

d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max);
k=Flange Thickness (Max); *d_m*=Nominal Mandrel Diameter; *S*=Nominal Shear Strength; *T*=Nominal Tensile Strength

The POP® Riveting Systems catalogue contains details of our core range only. Other rivet configurations are available. Items marked "on request" are subject to minimum order quantities or values and made to order lead times.
Please enquire to Emhart Customer Service. For the latest catalogue digital version please visit www.emhart.eu

Break Stem Open

Domed Head

Aluminium 3.5% Magnesium Alloy
Mandrel: Carbon Steel



 <i>d</i>	 <i>l</i>	 <i>g</i>	DESCRIPTION	 <i>d_h</i>	 <i>d_k</i>	 <i>k</i>	 <i>d_m</i>	 <i>S</i>	 <i>T</i>	BULK PACK		 /1,000
										ARTICLE	BOX QTY	
mm	mm	mm		mm	mm	mm	mm	N	N			kg
2.4 2.30 - 2.48	3.5	Up To 0.8	TAPD31BS	2.5 - 2.6	4.40 - 5.00	0.90	1.42	400	500	23758	10,000	0.53
	5.0	0.8 - 2.4	TAPD33BS							22806	10,000	0.54
	7.5	2.4 - 4.8	TAPD36BS							22807	10,000	0.59
3.0 2.90 - 3.08	5.0	Up To 2.0	SNAD3050BS	3.1 - 3.2	5.70 - 6.30	1.10	1.83	800	1,000	22486	10,000	0.90
	6.5	2.0 - 3.5	SNAD3065BS							22487	10,000	0.94
	8.0	3.5 - 5.0	SNAD3080BS							22489	10,000	1.00
	10.0	5.0 - 7.0	SNAD3100BS							22490	10,000	1.05
	12.0	7.0 - 9.0	SNAD3120BS							22492	8,000	1.29
	15.0	9.0 - 12.0	SNAD3150BS							22493	5,000	1.33
3.2 3.10 - 3.28	4.5	Up To 1.6	TAPD42BS	3.3 - 3.4	6.05 - 6.65	1.10	1.83	800	1,200	20124	10,000	0.87
	6.0	1.6 - 3.2	TAPD44BS							20125	10,000	0.92
	8.0	3.2 - 4.8	TAPD46BS							20127	10,000	0.98
	9.7	4.8 - 6.4	TAPD48BS							20128	10,000	1.04
	11.5	6.4 - 7.9	TAPD410BS							20129	10,000	1.11
	13.5	7.9 - 9.5	TAPD412BS							21196	8,000	1.20
	15.0	9.5 - 11.1	TAPD414BS							20056	8,000	1.26
	17.0	11.1 - 12.7	TAPD416BS							21305	8,000	1.36
	18.5	12.7 - 14.3	TAPD418BS							21519	8,000	1.37
	20.0	14.3 - 16.7	TAPD421BS							77898	7,000	1.47
	24.0	16.7 - 20.7	TAPD425BS							25243	5,000	1.65
4.0 3.90 - 4.08	5.0	Up To 1.6	TAPD52BS	4.1 - 4.2	7.62 - 8.22	1.22	2.29	1,330	1,910	21246	8,000	1.56
	7.0	1.6 - 3.2	TAPD54BS							20130	8,000	1.54
	8.5	3.2 - 4.8	TAPD56BS							20131	8,000	1.63
	10.5	4.8 - 6.4	TAPD58BS							20132	8,000	1.73
	12.2	6.4 - 7.9	TAPD510BS							20133	5,000	1.82
	14.0	7.9 - 9.5	TAPD512BS							20134	5,000	1.90
	15.7	9.5 - 11.1	TAPD514BS							21262	5,000	2.00
	17.5	11.1 - 12.7	TAPD516BS							21250	5,000	2.10
	18.5	12.7 - 13.5	TAPD517BS							75003	5,000	2.28
	19.4	12.7 - 14.5	TAPD518BS							22112	5,000	2.32
	20.2	13.5 - 15.9	TAPD520BS							21186	5,000	2.33
	22.5	15.9 - 17.4	TAPD522BS							25316	5,000	2.56
	24.7	17.4 - 19.8	TAPD525BS							80911	5,000	2.59

d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max);
k=Flange Thickness (Max); *d_m*=Nominal Mandrel Diameter; *S*=Nominal Shear Strength; *T*=Nominal Tensile Strength

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Break Stem Open

Domed Head

Aluminium 3.5% Magnesium Alloy
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		
										ARTICLE	BOX QTY	
mm	mm	mm		mm	mm	mm	mm	N	N			kg
4.8 4.70 - 4.88	6.5	Up To 2.4	TAPD63BS	4.9 - 5.0	9.20 - 9.80	1.60	2.64	2,020	2,800	21313	5,000	2.35
	7.5	2.4 - 3.2	TAPD64BS							20136	5,000	2.16
	9.2	3.2 - 4.8	TAPD66BS							20137	5,000	2.28
	11.0	4.8 - 6.4	TAPD68BS							20138	5,000	2.42
	12.7	6.4 - 7.9	TAPD610BS							20139	5,000	2.56
	14.7	7.9 - 9.5	TAPD612BS							20140	4,000	2.68
	16.5	9.5 - 11.1	TAPD614BS							20141	4,000	2.90
	19.0	11.1 - 13.5	TAPD617BS							21190	4,000	3.05
	21.0	13.5 - 15.5	TAPD621BS							22928	3,000	3.48
	23.0	15.5 - 17.5	TAPD623BS							23248	3,000	3.63
	25.5	17.5 - 19.8	TAPD625BS							22968	3,000	3.47
	32.5	19.8 - 26.2	TAPD633BS							23776	2,000	4.10
5.0 4.94 - 5.08	6.5	Up To 3.5	SNAD5065BS	5.1 - 5.2	8.70 - 9.30	1.60	2.64	2,200	2,600	22976	5,000	2.35
	8.0	3.5 - 4.5	SNAD5080BS							22977	5,000	2.47
	10.0	4.5 - 6.0	SNAD5100BS							22978	5,000	2.62
	12.0	6.0 - 7.5	SNAD5120BS							22979	5,000	2.77
	15.0	7.5 - 9.5	SNAD5140BS							22980	5,000	2.81
	16.0	9.5 - 11.5	SNAD5160BS							22981	5,000	3.04
	19.0	11.5 - 13.5	SNAD5180BS							22982	5,000	3.11
	20.0	13.5 - 15.5	SNAD5200BS							22983	4,000	3.18
	22.0	16.5 - 17.5	SNAD5220BS							22984	3,000	3.55
	25.0	17.5 - 20.5	SNAD5250BS							22985	3,000	3.77
6.0 5.93 - 6.08	8.0	0.5 - 3.5	SNAD6080BS	6.1 - 6.2	11.70 - 12.30	2.10	3.20	3,000	3,800	23387	4,000	4.03
	10.0	3.5 - 5.5	SNAD6100BS							23345	2,000	4.14
	12.0	5.5 - 7.5	SNAD6120BS							23346	2,000	4.58
	15.0	7.5 - 9.5	SNAD6140BS							23347	2,000	4.90
	16.0	9.5 - 11.5	SNAD6160BS							23373	2,000	5.00
	19.0	11.5 - 13.5	SNAD6180BS							23389	2,000	5.25
	20.0	13.5 - 15.5	SNAD6200BS							23354	2,000	5.34
6.4 6.25 - 6.48	12.7	Up To 6.4	TAPD88BS	6.5 - 6.6	12.40 - 13.00	2.10	3.66	3,200	4,525	22941	2,000	5.58
	16.2	6.4 - 9.5	TAPD812BS							75786	2,000	6.33
	19.5	9.5 - 12.7	TAPD816BS							22730	2,000	6.50
	26.2	12.7 - 19.8	TAPD824BS							22234	2,000	7.36

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Break Stem Open

Large Flange

Aluminium 3.5% Magnesium Alloy
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
<i>d</i>	<i>l</i>	<i>g</i>		<i>d_h</i>	<i>d_k</i>	<i>k</i>	<i>d_m</i>	<i>S</i>	<i>T</i>	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.10 - 3.28	6.2	1.6 - 3.2	TAPD44BSLF9.5	3.3 - 3.4	9.00 - 10.00	1.50	1.83	800	1,200	22056	8,000	1.07
	8.0	3.2 - 4.8	TAPD46BSLF9.5							21930	8,000	1.22
	9.7	4.8 - 6.4	TAPD48BSLF9.5							22574	8,000	1.25
	11.5	6.4 - 7.9	TAPD410BSLF9.5							22025	8,000	1.31
	13.5	7.9 - 9.5	TAPD412BSLF9.5							21881	5,000	1.44
	15.2	9.5 - 11.1	TAPD414BSLF9.5							on request		1.46
	17.0	11.1 - 12.7	TAPD416BSLF9.5							21882	5,000	1.48
	18.7	12.7 - 14.3	TAPD418BSLF9.5							on request		1.77
4.0 3.94 - 4.08	8.5	Up To 4.8	TAPD56BSLF12	4.1 - 4.2	11.50 - 12.50	1.60	2.29	1,330	1,910	21523	5,000	1.84
	10.5	4.8 - 6.4	TAPD58BSLF12							22237	5,000	1.98
	12.2	6.4 - 7.9	TAPD510BSLF12							22033	5,000	2.04
	14.0	7.9 - 9.5	TAPD512BSLF12							23356	5,000	2.16
	15.7	9.5 - 11.1	TAPD514BSLF12							21886	5,000	2.26
	17.5	11.1 - 12.7	TAPD516BSLF12							23450	4,000	2.45
	19.4	12.7 - 14.3	TAPD518BSLF12							24680	4,000	2.50
	20.3	14.3 - 15.9	TAPD520BSLF12							on request		2.65
	4.8 4.70 - 4.88	9.2	Up To 4.8							TAPD66BSLF14	4.9 - 5.0	13.70 - 14.30
11.0		4.8 - 6.4	TAPD68BSLF14	22050	4,000	3.14						
12.7		6.4 - 7.9	TAPD610BSLF14	22021	3,000	3.13						
14.5		7.9 - 9.5	TAPD612BSLF14	22053	3,000	3.38						
16.5		9.5 - 11.1	TAPD614BSLF14	22052	3,000	3.40						
18.2		11.1 - 12.7	TAPD616BSLF14	22030	3,000	3.50						
19.0		12.7 - 13.5	TAPD617BSLF14	22042	3,000	3.51						
25.5		13.5 - 19.8	TAPD625BSLF14	23355	2,000	4.00						

d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max);
k=Flange Thickness (Max); *d_m*=Nominal Mandrel Diameter; *S*=Nominal Shear Strength; *T*=Nominal Tensile Strength

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Break Stem Open 120° Countersunk

Aluminium 3.5% Magnesium Alloy
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	/1,000 kg
2.4 2.30 - 2.48	4.5	Up To 1.6	TAPK31BS	2.5 - 2.6	4.50 - 4.90	-	1.42	400	500	81259	10,000	0.53
	6.0	1.6 - 3.2	TAPK33BS							23175	10,000	0.53
	8.5	3.2 - 5.6	TAPK36BS							23010	10,000	0.57
3.0 2.90 - 3.08	5.2	Up To 2.0	SNAK350BS	3.1 - 3.2	5.70 - 6.30	-	1.83	800	1,000	23054	10,000	0.91
	6.7	2.0 - 3.5	SNAK365BS							22754	10,000	1.00
	8.2	3.5 - 5.0	SNAK380BS							22760	10,000	1.02
	10.2	5.0 - 7.0	SNAK3100BS							on request		1.05
	12.2	7.0 - 9.0	SNAK3120BS							on request		1.12
	15.2	9.0 - 12.0	SNAK3150BS							on request		1.35
3.2 3.10 - 3.28	5.5	Up To 2.7	TAPK42BS	3.3 - 3.4	6.05 - 6.65	-	1.83	800	1,200	21067	10,000	0.91
	7.5	2.7 - 4.3	TAPK44BS							24484	10,000	0.93
	9.0	4.3 - 5.8	TAPK46BS							20144	10,000	1.02
	11.0	5.8 - 7.4	TAPK48BS							21207	10,000	1.05
	12.7	7.4 - 9.0	TAPK410BS							20145	10,000	1.14
	14.5	9.0 - 10.6	TAPK412BS							21304	8,000	1.29
	16.2	10.6 - 12.2	TAPK414BS							20075	8,000	1.31
	18.0	12.2 - 13.8	TAPK416BS							21306	8,000	1.34
	19.7	13.8 - 15.4	TAPK418BS							21542	8,000	1.39
	21.4	15.4 - 17.7	TAPK421BS							81298	8,000	1.46
	25.4	17.7 - 20.9	TAPK425BS							on request		1.54
4.0 3.90 - 4.08	6.5	Up To 2.9	TAPK52BS	4.1 - 4.2	7.75 - 8.05	-	2.29	1,330	1,910	21248	8,000	1.56
	8.5	2.9 - 4.5	TAPK54BS							20146	8,000	1.60
	10.0	4.5 - 6.1	TAPK56BS							20147	8,000	1.65
	12.0	6.1 - 7.7	TAPK58BS							20148	8,000	1.78
	13.5	7.7 - 9.3	TAPK510BS							21312	5,000	1.93
	15.5	9.3 - 10.9	TAPK512BS							21069	5,000	1.96
	17.0	10.9 - 12.4	TAPK514BS							21070	5,000	2.06
	19.0	12.4 - 14.0	TAPK516BS							21071	5,000	2.26
	20.0	14.0 - 14.8	TAPK517BS							80685	5,000	2.28
	22.0	14.8 - 17.2	TAPK520BS							80858	5,000	2.37

Continued overleaf

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
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Break Stem Open

120° Countersunk

Aluminium 3.5% Magnesium Alloy

Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
										ARTICLE	BOX QTY	
mm	mm	mm		mm	mm	mm	mm	N	N			kg
4.8 4.70 - 4.88	8.5	Up To 1.6	TAPK63BS	4.9 - 5.0	9.33 - 9.73	-	2.64	2,020	2,800	21314	5,000	2.35
	9.5	1.6 - 4.8	TAPK64BS							21279	5,000	2.38
	11.0	4.8 - 6.4	TAPK66BS							21256	5,000	2.44
	13.0	6.4 - 7.9	TAPK68BS							21269	5,000	2.70
	14.5	7.9 - 9.5	TAPK610BS							20150	5,000	2.76
	16.5	9.5 - 11.1	TAPK612BS							21072	4,000	2.80
	18.2	11.1 - 12.7	TAPK614BS							20151	4,000	3.04
	20.0	12.7 - 14.3	TAPK616BS							on request		3.08
	21.0	14.3 - 15.1	TAPK617BS							21174	4,000	3.13
	27.5	15.1 - 21.4	TAPK625BS							22969	3,000	3.63
	34.0	21.4 - 27.8	TAPK633BS							81310	2,000	4.08
5.0 4.85 - 5.08	6.7	Up To 3.5	SNAK5065BS	5.1 - 5.2	8.50 - 9.00	-	2.64	2,200	2,600	on request		2.47
	8.2	3.5 - 4.5	SNAK5080BS							on request		2.58
	10.2	4.5 - 6.0	SNAK5100BS							on request		2.71
	12.2	6.0 - 7.5	SNAK5120BS							on request		2.88
	14.2	7.5 - 9.5	SNAK5140BS							on request		2.93
	16.2	9.5 - 11.5	SNAK5160BS							on request		3.14
	18.2	11.5 - 13.5	SNAK5180BS							on request		3.22
	20.2	13.5 - 15.5	SNAK5200BS							on request		3.29
	22.2	15.5 - 17.5	SNAK5220BS							on request		3.66
	25.2	17.5 - 20.5	SNAK5250BS							on request		3.88
	28.2	19.5 - 23.5	SNAK5280BS							on request		4.36
	30.2	20.5 - 25.5	SNAK5300BS							on request		4.67

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Break Stem Open Domed Head

Aluminium 3.5% Magnesium Alloy
Mandrel: Stainless Steel

			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
2.4 2.30 - 2.48	5.0	0.8 - 2.4	TAPD33SS	2.5 - 2.6	4.40 - 5.00	0.90	1.42	400	500	on request		0.58
3.2 3.10 - 3.28	4.5	Up To 1.6	TAPD42SS	3.3 - 3.4	6.05 - 6.65	1.10	1.83	800	1,200	21992	10,000	0.89
	6.0	1.6 - 3.2	TAPD44SS							21991	10,000	0.93
	8.0	3.2 - 4.8	TAPD46SS							21189	10,000	1.02
	9.7	4.8 - 6.4	TAPD48SS							21932	10,000	1.04
	11.5	6.4 - 7.9	TAPD410SS							21522	10,000	1.08
	13.5	7.9 - 9.5	TAPD412SS							on request		1.28
	15.0	9.5 - 11.1	TAPD414SS							on request		1.30
	17.0	11.1 - 12.7	TAPD416SS							on request		1.32
	18.5	12.7 - 14.3	TAPD418SS							22576	8,000	1.35
4.0 3.90 - 4.08	7.0	1.6 - 3.2	TAPD54SS	4.1 - 4.2	7.62 - 8.22	1.35	2.29	1,330	1,910	21144	8,000	1.63
	8.5	3.2 - 4.8	TAPD56SS							20007	8,000	1.64
	10.5	4.8 - 6.4	TAPD58SS							20061	8,000	1.84
	12.2	6.4 - 7.9	TAPD510SS							20010	5,000	1.94
	14.0	7.9 - 9.5	TAPD512SS							21839	5,000	2.01
	15.7	9.5 - 11.1	TAPD514SS							21990	5,000	2.12
	17.5	11.1 - 12.7	TAPD516SS							21844	5,000	2.28
	19.4	12.7 - 14.5	TAPD518SS							24370	5,000	2.31
4.8 4.70 - 4.88	7.5	2.4 - 3.2	TAPD64SS	4.9 - 5.0	9.20 - 9.80	1.60	2.64	2,020	2,800	22024	5,000	2.44
	9.2	3.2 - 4.8	TAPD66SS							20013	5,000	2.43
	11.0	3.8 - 6.4	TAPD68SS							20015	5,000	2.66
	12.7	6.4 - 7.9	TAPD610SS							20016	5,000	2.72
	14.7	7.9 - 9.5	TAPD612SS							20017	4,000	3.07
	16.5	9.5 - 11.1	TAPD614SS							21286	4,000	3.11
	19.0	11.1 - 13.5	TAPD617SS							20050	4,000	3.18
	21.0	13.5 - 16.0	TAPD621SS							23586	4,000	3.49

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Break Stem Open

Domed Head

Aluminium 2.5% Magnesium Alloy
Mandrel: Aluminium Alloy



			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
2.4 2.34 - 2.44	5.7	0.8 - 3.2	AD32ABS	2.5 - 2.6	4.52 - 5.03	0.80	1.45	400	500	22146	10,000	0.24
	8.9	3.2 - 6.4	AD34ABS							23657	10,000	0.26
	12.1	6.4 - 9.5	AD36ABS							75180	10,000	0.28
3.2 3.10 - 3.28	4.8	0.8 - 1.6	AD41ABS	3.3 - 3.4	6.04 - 6.65	1.10	1.93	680	1,040	23658	10,000	0.42
	6.5	1.6 - 3.2	AD42ABS							81666	10,000	0.44
	8.0	3.2 - 4.8	AD43ABS							77173	10,000	0.46
	9.5	4.8 - 6.4	AD44ABS							77174	10,000	0.51
	11.1	6.4 - 7.9	AD45ABS							21083	10,000	0.54
	12.7	7.9 - 9.5	AD46ABS							21084	10,000	0.56
	15.9	9.5 - 12.7	AD48ABS							75189	8,000	0.65
	19.0	12.7 - 15.9	AD410ABS							23659	8,000	0.70
4.0 3.88 - 4.08	7.0	1.6 - 3.2	AD52ABS	4.1 - 4.2	7.51 - 8.40	1.20	2.41	1,000	1,550	21085	8,000	0.76
	8.6	3.2 - 4.8	AD53ABS							75100	8,000	0.82
	10.2	4.8 - 6.4	AD54ABS							75382	7,000	0.87
	13.3	6.4 - 9.5	AD56ABS							20343	7,000	0.95
	16.5	9.5 - 12.7	AD58ABS							21087	6,000	1.06
	19.7	12.7 - 15.9	AD510ABS							on request		1.18
4.8 4.65 - 4.88	7.6	1.6 - 3.2	AD62ABS	4.9 - 5.0	9.06 - 9.98	1.40	2.90	1,400	2,220	25552	5,000	1.15
	10.8	3.2 - 6.4	AD64ABS							77282	5,000	1.20
	14.0	6.4 - 9.5	AD66ABS							81669	4,500	1.45
	17.2	9.5 - 12.7	AD68ABS							23662	4,000	1.60
	20.3	12.7 - 15.9	AD610ABS							25661	4,000	1.71
	23.5	15.9 - 19.1	AD612ABS							81658	3,000	1.86
	26.7	19.1 - 22.2	AD614ABS							78141	3,000	2.28
	29.8	22.3 - 25.4	AD616ABS							75038	2,500	3.64
6.4 6.17 - 6.48	8.9	1.6 - 3.8	AD82ABS	6.5 - 6.6	12.07 - 13.33	1.85	3.80	2,669	3,336	on request		2.69
	12.1	3.8 - 6.4	AD84ABS							75202	2,000	2.81
	15.2	6.4 - 9.5	AD86ABS							75204	2,000	3.08
	18.4	9.5 - 12.7	AD88ABS							on request		3.29
	21.6	12.7 - 15.9	AD810ABS							on request		3.58
	24.8	15.9 - 19.1	AD812ABS							75027	1,500	3.83
	27.9	19.1 - 22.2	AD814ABS							on request		4.04
	31.1	22.2 - 25.4	AD816ABS							on request		4.22

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max); k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Break Stem Open Large Flange

Aluminium 2.5% Magnesium Alloy
Mandrel: Aluminium Alloy

			DESCRIPTION							BULK PACK		
d	l	g		dh	dk	k	dm	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.10 - 3.28	6.5	1.6 - 3.2	AD42ABSLF	3.3 - 3.4	9.14 - 9.91	1.14	1.93	680	1,040	22350	10,000	0.49
	8.0	3.2 - 4.8	AD43ABSLF							on request		0.54
	9.5	4.8 - 6.4	AD44ABSLF							22351	8,000	0.59
	12.7	7.9 - 9.5	AD46ABSLF									0.64
4.0 3.90 - 4.08	10.2	3.2 - 6.4	AD54ABSLF	4.1 - 4.2	11.38 - 12.40	1.42	2.41	1,000	1,550	23661	4,000	0.98
	13.5	6.4 - 9.5	AD56ABSLF							on request		1.09
	16.5	9.5 - 12.7	AD58ABSLF							81643	4,000	1.25
4.8 4.65 - 4.88	10.8	3.2 - 6.4	AD64ABSLF	4.9 - 5.0	15.24 - 16.51	2.30	2.90	1,400	2,220	25009	3,000	1.84
	14.0	6.4 - 9.5	AD66ABSLF							75369	2,500	2.17
	17.2	9.5 - 12.7	AD68ABSLF							81659	2,000	2.25
	20.3	12.7 - 15.9	AD610ABSLF							81657	2,000	2.31
	23.5	15.9 - 19.1	AD612ABSLF							22400	2,000	2.47
	26.7	19.0 - 22.0	AD614ABSLF							on request		
	29.8	22.2 - 25.4	AD616ABSLF							on request		

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Vgrip®

Domed Head

Aluminium 2.5% Magnesium Alloy
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	/1,000
4.8 4.74 - 4.88	10.8 16.5	1.5 - 6.0 6.0 - 10.0	VG11-04810-511 VG11-04816-511	4.9 - 5.0 4.9 - 5.0	9.1 - 9.9	1.7	3.1	1,200 1,200	1,900 1,900	79200 79201	5,000 4,000	3.15 4.26

Vgrip®

Large Flange

Aluminium 2.5% Magnesium Alloy
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	/1,000
4.8 4.74 - 4.88	10.8 16.5	1.5 - 6.0 6.0 - 10.0	VG12-04810-511 VG12-04816-511	4.9 - 5.0 4.9 - 5.0	15.6 - 16.4	2.25	3.1	1,200 1,200	1,900 1,900	79202 79203	4,000 3,000	3.71 4.28

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

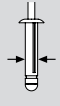
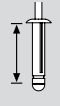
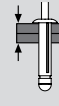
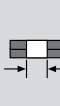
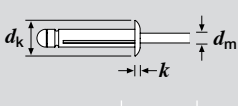
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LSR (Load Spreading Rivet)

Domed Head

Aluminium 3.5% Magnesium Alloy
Mandrel: Aluminium Alloy



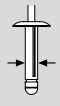
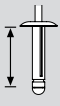
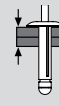
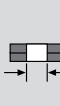
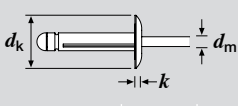
			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.15 - 3.28	17.1 21.30	Up To 6.35 Up To 9.5	ACD408ASM ACD412ASM	3.4 - 3.5	6.05 - 6.65	1.00	1.83	400	500	79126 79268	8,000 8,000	0.58
4.0 3.94 - 4.18	17.5 21.3 25.0	Up To 6.35 3.0 - 9.5 5.0 - 12.0	ACD508ASM ACD512ASM ACD516ASM	4.2 - 4.3	7.60 - 8.25	1.34	2.29	700	900	80579 76416 80574	5,000 3,000 5,000	0.94 1.07 1.14
4.8 4.70 - 4.97	17.5 19.8 23.5	Up To 6.35 3.0 - 9.5 5.0 - 12.0	ACD608ASM ACD612ASM ACD616ASM	5.0 - 5.2	9.23 - 9.83	1.57	2.64	1,000	1,400	77467 77553 77470	4,000 4,000 3,000	1.26 1.43 1.52

LSR (Load Spreading Rivet)

Large Flange

Aluminium 3.5% Magnesium Alloy
Mandrel: Aluminium Alloy



			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
4.8 4.70 - 4.97	17.5 19.8 23.5	Up To 6.35 3.0 - 9.5 5.0 - 12.0	ACD608ASM LF12 ACD612ASM LF12 ACD616ASM LF12	5.0 - 5.2	11.70 - 12.25	1.90	2.64	1,000	1,400	77468 77469 77567	3,000 3,000 3,000	1.47 1.54 1.68
4.8 4.70 - 4.97	17.5 19.8 23.5	Up To 6.35 3.0 - 9.5 5.0 - 12.0	ACD608ASM LF14 ACD612ASM LF14 ACD616ASM LF14	5.0 - 5.2	13.70 - 14.30	1.90	2.64	1,000	1,400	77549 78254 77568	3,000 3,000 3,000	1.60 1.77 1.82

d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max);
k=Flange Thickness (Max); *d_m*=Nominal Mandrel Diameter; *S*=Nominal Shear Strength; *T*=Nominal Tensile Strength

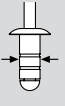
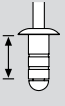
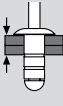
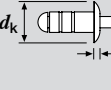
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Multi-Grip

Domed Head

Aluminium 2.5% Magnesium Alloy
Mandrel: Carbon Steel



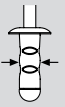
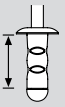
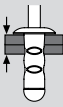
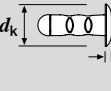
			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
3.2 3.10 - 3.28	7.9	Up To 4.8	EBD406BS	3.3 - 3.4	6.00 - 6.60	1.10	1.83	690	930	82786	10,000	1.02
	11.5	4.8 - 7.9	EBD410BS	3.3 - 3.4	6.00 - 6.60	1.10	1.83	690	930	82785	10,000	1.14
	15.1	6.4 - 11.1	AD45-47BS	3.3 - 3.6	6.00 - 6.65	1.02	1.93	670	980	78135	8,000	1.26
4.0 3.85 - 4.08	10.5	Up To 6.4	EBD508BS	4.1 - 4.2	7.74 - 8.10	1.25	2.29	1,000	1,570	82784	8,000	1.83
	14.0	3.0 - 9.5	EBD512BS	4.1 - 4.2	7.74 - 8.10	1.25	2.29	1,000	1,570	82783	5,000	1.97
	18.2	6.4 - 12.7	AD56-58BS	4.1 - 4.3	7.54 - 8.30	1.25	2.40	1,100	1,601	on request		2.12
4.8 4.65 - 4.88	11.0	0.8 - 6.4	EBD608BS	4.9 - 5.0	9.20 - 9.80	1.60	2.64	1,570	2,250	82782	5,000	2.66
	16.5	6.4 - 11.1	EBD614BS	4.9 - 5.0	9.20 - 9.80	1.60	2.64	1,570	2,250	82781	4,000	3.10
	26.5	11.1 - 19.1	AD68-612BS	4.9 - 5.0	9.14 - 9.91	1.40	2.90	1,550	2,250	78493	2,500	3.40
6.4 6.32 - 6.53	15.2	2.0 - 8.9	AD82-86BS	6.6 - 7.0	12.06 - 13.34	1.87	3.84	2,040	2,490	on request		4.85

Multi-Grip

Domed Head

Aluminium 3.5% Magnesium Alloy
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
6.4 6.25 - 6.48	11.0	2.0 - 4.8	TAVD806BS	6.5 - 6.9	10.60 - 11.20	2.10	3.70	2,800	4,000	77807	2,000	5.75
	16.4	3.5 - 8.5	TAVD812BS		12.40 - 13.00					78287	2,000	6.04

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Multi-Grip Large Flange

Aluminium 2.5% Magnesium Alloy
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		 /1,000
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.10 - 3.28	8.0 11.5	1.0 - 4.8 4.0 - 7.9	AD41-43BSLF AD43-45BSLF	3.3 - 3.6	9.14 - 9.91	1.33	1.93	680	980	on request 77161	7,000	1.08 1.43
4.0 3.85 - 4.08	10.2 12.3	1.2 - 6.4 3.2 - 7.9	AD52-54BSLF AD53-55BSLF	4.1 - 4.3	11.38 - 12.50	1.80	2.41	1,100	1,600	75637 on request	4,000	2.07 2.67
4.8 4.64 - 4.88	10.8 18.2 26.7	1.6 - 6.4 6.4 - 12.7 11.1 - 19.1	AD62-64BSLF AD66-68BSLF AD68-612BSLF	4.9 - 5.2	15.24 - 16.52	2.10	2.90	1,550	2,240	75665 82773 77587	2,000 2,000 2,000	3.40 3.96 4.42

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

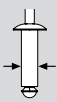
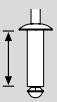
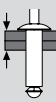
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Peel Rivet

Domed Head

Aluminium 3.5% Magnesium Alloy
Mandrel: Carbon Steel



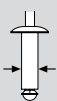
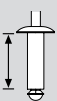
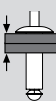
			DESCRIPTION							BULK PACK		KG /1,000
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
3.2 3.15 - 3.38	10.00	1.0 - 6.0	TAPD408SO	3.6 - 3.7	6.15 - 6.65	1.20	1.83	800	800	25960	10,000	1.10
	13.40	5.0 - 9.0	TAPD412SO							25961	8,000	1.32
	18.70	8.0 - 14.0	TAPD418SO							25970	8,000	1.41
4.0 3.85 - 4.08	10.50	1.0 - 6.0	TAPD508SO	4.4 - 4.5	7.62 - 8.22	1.35	2.45	1,000	1,000	25963	8,000	2.06
	14.00	5.0 - 9.0	TAPD512SO							25964	5,000	2.31
	19.50	8.0 - 14.0	TAPD518SO							25965	5,000	2.67
4.8 4.73 - 4.88	11.10	1.0 - 6.0	TAPD608SO	5.2 - 5.3	9.20 - 9.80	1.60	2.64	2,000	2,000	25966	5,000	2.82
	14.70	5.0 - 9.0	TAPD612SO							25967	4,000	3.14
	19.10	8.0 - 14.0	TAPD617SO							25968	4,000	3.36
	25.50	14.0 - 20.0	TAPD625SO							25969	3,000	3.56

Peel Rivet

Large Flange

Aluminium 3.5% Magnesium Alloy
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		KG /1,000
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
4.8 4.73 - 4.88	11.00	1.0 - 6.0	TAPD608SOLF14	5.2 - 5.3	10.70 - 11.30	2.00	2.64	2,000	2,000	25991	4,000	3.06
	14.70	5.0 - 9.0	TAPD612SOLF14							25993	3,000	3.48
	19.20	8.0 - 14.0	TAPD617SOLF14							25995	3,000	3.66
	25.60	14.0 - 20.0	TAPD625SOLF14							25997	2,000	4.06

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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**T-Rivet****Domed Head**

Aluminium 5% Magnesium Alloy
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	/1,000 kg
4.8 4.72 - 4.89	11.4	0.8 - 3.6	AD6140TFBS	4.9 - 5.0	9.52 - 10.37	2.10 - 2.62	2.95	4,220	2,670	62680	4,500	3.06
	13.0	3.6 - 4.8	AD6187TFBS					4,560	2,670	75380	4,300	3.28
	14.5	4.8 - 6.4	AD6250TFBS					4,670	2,670	75245	4,300	3.32
	16.1	6.4 - 7.9	AD6312TFBS					5,000	2,670	on request		3.43
	17.7	8.0 - 9.5	AD6375TFBS					5,340	2,670	75256	3,600	3.55
	19.3	9.5 - 11.1	AD6437TFBS					5,670	2,670	75246	3,500	3.75
	20.9	11.1 - 13.2	AD6519TFBS					6,000	2,670	75247	3,500	3.82
6.4 6.30 - 6.50	12.7	0.8 - 3.6	AD8140TFBS	6.53 - 6.63	12.32 - 13.70	2.70 - 3.23	3.84	6,340	4,940	62691	2,600	6.07
	14.0	3.6 - 4.8	AD8187TFBS					7,000	4,940	76448	2,400	6.14
	15.6	4.8 - 6.4	AD8250TFBS					7,340	4,940	62684	2,000	6.67
	17.2	6.4 - 7.9	AD8312TFBS					7,900	4,940	62685	2,000	6.87
	18.8	8.0 - 9.5	AD8375TFBS					9,120	4,940	62686	2,000	7.10
	20.4	9.5 - 11.1	AD8437TFBS					9,570	4,940	62687	2,000	7.22
	22.0	11.1 - 13.2	AD8519TFBS					10,350	4,940	62688	2,000	7.34
	23.8	13.2 - 15.8	AD8620TFBS					10,680	4,940	75257	1,900	7.46

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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HS (High Strength)

Domed Head

Aluminium 2.5% Magnesium Alloy
Mandrel: Aluminium Alloy



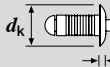
			DESCRIPTION						BULK PACK			
<i>d</i>	<i>l</i>	<i>g</i>		<i>d_h</i>	<i>d_k</i>	<i>k</i>	<i>d_m</i>	<i>S</i>	<i>T</i>	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	N	N			kg	
6.4	12.0	3.4 - 5.4	AD854AHS	6.6 - 6.9	12.5 - 13.5		4.0	4,100	3,500	79145	2,000	3.22

Grooved

Domed Head

Aluminium 3.5% Magnesium Alloy
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		 /1,000
<i>d</i>	<i>l</i>	<i>g</i>		<i>d_h</i>	<i>d_k</i>	<i>k</i>	<i>d_m</i>	<i>S</i>	<i>T</i>	ARTICLE	BOX QTY	
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.3 3.30 - 3.45	9.7	-	TASD48BS	3.5 - 3.6	6.05 - 6.65	1.10	1.83	-	-	24657	10,000	1.07
4.1 4.00 - 4.28	8.5 12.1	- -	TASD56BS TASD510BS	4.3 - 4.4	7.62 - 8.22	1.34	2.29	-	-	24682 24658	8,000 5,000	1.69 2.02
5.0 4.85 - 5.15	7.9	-	TASD64BS	5.2 - 5.3	9.22 - 9.82	1.60	2.64	-	-	24926	5,000	2.37
	11.3	-	TASD68BS							24660	5,000	2.71
	13.4	-	TASD610BS							82582	5,000	2.80
	15.0	-	TASD612BS							24656	4,000	3.06
	26.0	-	TASD625BS							24512	3,000	3.66

d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_m*=Flange Diameter (Min - Max);
k=Flange Thickness (Max); *d_k*=Nominal Mandrel Diameter; *S*=Nominal Shear Strength; *T*=Nominal Tensile Strength

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Soft Set Domed Head

Aluminium 99.5%
Mandrel: Aluminium Alloy

			DESCRIPTION							BULK PACK		/1,000 kg
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	
mm	mm	mm		mm	mm	mm	mm	N	N			
2.5 2.41 - 2.56	7.3	3.2 - 4.8	PAD25M3ABS	2.60	4.10 - 4.40	0.71	1.50	270	330	62999	1,000	0.40
	8.9	4.8 - 6.4	PAD25M4ABS							62947	1,000	0.43
	11.4	6.4 - 8.0	PAD25M5ABS							62948	1,000	0.47
3.0 2.92 - 3.07	8.0	3.2 - 4.8	PAD30M3ABS	3.10	5.70 - 6.30	1.10	1.80	310	420	62949	1,000	0.48
	9.8	4.8 - 6.4	PAD30M4ABS							62956	1,000	0.51
	11.6	6.4 - 8.0	PAD30M5ABS							62957	1,000	0.55
3.2 3.10 - 3.28	4.8	Up To 1.6	PAD41ABS	3.3 - 3.4	6.10 - 6.70	1.10	1.93	360	490	76292	10,000	0.39
	6.4	1.6 - 3.2	PAD42ABS							76293	10,000	0.41
	8.0	3.2 - 4.8	PAD43ABS							75209	10,000	0.43
	9.5	4.8 - 6.4	PAD44ABS							81664	10,000	0.48
	12.7	6.4 - 9.5	PAD46ABS							75210	10,000	0.54
	15.9	9.5 - 12.7	PAD48ABS							75211	8,000	0.62
4.0 3.88 - 4.08	10.2	4.8 - 6.4	PAD54ABS	4.1 - 4.2	7.60 - 8.40	1.20	2.41	460	640	75368	7,000	0.83
	13.3	6.4 - 9.5	PAD56ABS							75213	7,000	0.87
4.8 4.65 - 4.88	10.8	3.2 - 6.4	PAD64ABS	4.9 - 5.0	9.10 - 10.00	1.40	2.90	640	910	76294	5,000	1.38
	14.0	6.4 - 9.5	PAD66ABS							76415	4,500	1.51
	17.2	9.5 - 12.7	PAD68ABS							75093	4,000	1.65

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 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

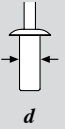
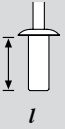
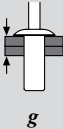
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Closed End

Domed Head

Aluminium 5% Magnesium Alloy
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
3.2 3.10 - 3.28	6.0	Up To 1.6	AD42SB	3.3 - 3.4	5.70 - 6.30	1.10	1.63	1,110	1,400	80387	10,000	0.75
	7.5	1.6 - 3.2	AD44SB							80392	10,000	0.77
	9.0	3.2 - 4.8	AD46SB							80402	10,000	0.80
	11.0	4.8 - 6.4	AD48SB							80407	10,000	0.88
	12.5	6.4 - 7.9	AD410SB							80448	10,000	0.90
4.0 3.90 - 4.08	8.0	Up To 3.2	AD54SB	4.1 - 4.2	7.62 - 8.22	1.50	2.18	1,640	2,220	80414	8,000	1.59
	9.5	3.2 - 4.8	AD56SB							80419	8,000	1.61
	11.0	4.8 - 6.4	AD58SB							80423	8,000	1.65
	12.5	6.4 - 7.9	AD510SB							80376	5,000	1.68
4.8 4.73 - 4.88	8.3	Up To 3.2	AD64SB	4.9 - 5.0	9.20 - 9.85	1.75	2.64	2,260	3,110	80427	5,000	2.38
	10.0	3.2 - 4.8	AD66SB							80434	5,000	2.44
	11.5	4.8 - 6.4	AD68SB							80442	5,000	2.48
	13.0	6.4 - 7.9	AD610SB							80458	5,000	2.54
	14.5	7.9 - 9.5	AD612SB							80466	5,000	2.72
	18.0	9.5 - 12.7	AD616SB							80472	4,000	2.93
	22.0	12.7 - 15.9	AD620SB							80476	4,000	3.35
6.4 6.32 - 6.48	13.0	Up To 6.4	AD84H	6.5 - 6.6	12.06 - 13.34	2.51	3.66	4,000	4,800	23481	2,000	4.80
	16.0	6.4 - 9.5	AD86H							80258	2,000	5.12

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
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Closed End Large Flange

Aluminium 5% Magnesium Alloy
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		/1,000
d	l	g		dh	dk	k	dm	S	T	ARTICLE	BOX QTY	
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.10 - 3.28	6.7	Up To 1.6	AD402SBM LF 8	3.3 - 3.4	7.50 - 8.50	1.20	1.65	1,110	1,400	76232	5,000	0.88
	8.3	1.6 - 3.2	AD404SBM LF 8							76233	5,000	0.90
	9.9	3.2 - 4.8	AD406SBM LF 8							76234	5,000	0.92
	11.5	4.8 - 6.4	AD408SBM LF 8							on request		0.94
4.0 3.90 - 4.08	8.5	Up To 3.2	AD504SBM LF 10	4.1 - 4.2	9.50 - 10.50	1.70	2.19	1,640	2,220	76611	5,000	1.90
	10.2	3.2 - 4.8	AD506SBM LF 10							76235	5,000	1.94
	11.8	4.8 - 6.4	AD508SBM LF 10							75753	5,000	1.96
	13.4	6.4 - 7.9	AD510SBM LF 10							76236	5,000	2.00
4.8 4.70 - 4.88	8.9	Up To 3.2	AD604SBM LF 11	4.9 - 5.0	10.50 - 11.50	1.95	2.64	2,260	3,110	76237	5,000	2.78
	10.5	3.2 - 4.8	AD606SBM LF 11							76238	5,000	2.82
	12.1	4.8 - 6.4	AD608SBM LF 11							76239	5,000	2.84
	13.5	6.4 - 7.9	AD610SBM LF 11							76240	5,000	2.86
	15.1	7.9 - 9.5	AD612SBM LF 11							76241	5,000	2.98

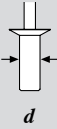
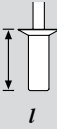
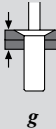
d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
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Closed End 120° Countersunk

Aluminium 5% Magnesium Alloy
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
3.2 3.10 - 3.28	7.0	Up To 2.5	AK42SB	3.3 - 3.4	5.69 - 6.29	-	1.65	1,110	1,400	80493	10,000	0.75
	8.5	2.5 - 4.1	AK44SB							80499	10,000	0.77
	10.0	4.1 - 5.6	AK46SB							80505	10,000	0.80
	11.7	5.6 - 7.2	AK48SB							80508	10,000	0.88
	13.3	7.2 - 8.8	AK410SB							80536	10,000	0.90
4.0 3.90 - 4.08	9.5	Up To 4.4	AK54SB	4.1 - 4.2	7.62 - 8.22	-	2.18	1,640	2,220	80512	8,000	1.59
	11.0	4.4 - 6.0	AK56SB							80516	8,000	1.61
	12.5	6.0 - 7.6	AK58SB							80520	8,000	1.65
	14.0	7.6 - 9.2	AK510SB							80540	5,000	1.68
4.8 4.70 - 4.88	10.0	Up To 4.7	AK64SB	5.0 - 5.1	9.25 - 9.85	-	2.62	2,260	3,110	80524	5,000	2.38
	11.5	4.7 - 6.3	AK66SB							80528	5,000	2.44
	13.0	6.3 - 7.9	AK68SB							80533	5,000	2.48
	14.7	7.9 - 9.4	AK610SB							80544	5,000	2.54
	16.3	9.4 - 11.0	AK612SB							80549	5,000	2.72
	19.5	11.0 - 14.2	AK616SB							80551	4,000	2.93
	23.5	14.2 - 18.4	AK620SB							80553	4,000	3.35

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Closed End Domed Head

Aluminium 5% Magnesium Alloy
Mandrel: Stainless Steel

			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.10 - 3.28	6.0	Up To 1.6	AD42SS	3.3 - 3.4	5.70 - 6.30	1.10	1.63	1,110	1,400	80389	10,000	0.83
	7.5	1.6 - 3.2	AD44SS							80397	10,000	0.86
	9.0	3.2 - 4.8	AD46SS							80406	10,000	0.88
	11.0	4.8 - 6.4	AD48SS							80410	10,000	0.90
	12.5	6.4 - 7.9	AD410SS							80450	10,000	0.93
4.0 3.90 - 4.08	8.0	Up To 3.2	AD54SS	4.1 - 4.2	7.62 - 8.22	1.50	2.18	1,640	2,220	80256	8,000	1.59
	9.5	3.2 - 4.8	AD56SS							80254	8,000	1.61
	11.0	4.8 - 6.4	AD58SS							80253	8,000	1.65
	12.5	6.4 - 7.9	AD510SS							75135	5,000	1.68
4.8 4.73 - 4.88	8.3	Up To 3.2	AD64SS	4.9 - 5.0	9.20 - 9.85	1.75	2.64	2,260	3,110	80431	5,000	2.38
	10.0	3.2 - 4.8	AD66SS							80439	5,000	2.44
	11.5	4.8 - 6.4	AD68SS							80447	5,000	2.48
	13.0	6.4 - 7.9	AD610SS							80463	5,000	2.54
	14.5	7.9 - 9.5	AD612SS							80471	5,000	2.74
	18.0	9.5 - 12.7	AD616SS							80475	4,000	2.98
	22.0	12.7 - 15.9	AD620SS							80478	4,000	3.30

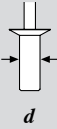
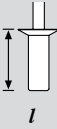
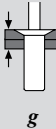
d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max);
k=Flange Thickness (Max); *d_m*=Nominal Mandrel Diameter; *S*=Nominal Shear Strength; *T*=Nominal Tensile Strength

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Closed End 120° Countersunk

Aluminium 5% Magnesium Alloy
Mandrel: Stainless Steel



 <i>d</i>	 <i>l</i>	 <i>g</i>	DESCRIPTION	 <i>d_h</i>	 <i>d_k</i>	 <i>k</i>	 <i>d_m</i>	 <i>S</i>	 <i>T</i>	BULK PACK		 /1,000
										ARTICLE	BOX QTY	
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.10 - 3.28	7.0	Up To 2.5	AK42SS	3.3 - 3.4	5.69 - 6.29	-	1.65	1,110	1,400	80495	10,000	0.83
	8.5	2.5 - 4.1	AK44SS							80501	10,000	0.86
	10.0	4.1 - 5.6	AK46SS							80507	10,000	0.88
	11.7	5.6 - 7.2	AK48SS							80240	10,000	0.90
	13.3	7.2 - 8.8	AK410SS							80321	10,000	0.95
4.0 3.90 - 4.08	9.5	Up To 4.4	AK54SS	4.1 - 4.2	7.62 - 8.22	-	2.18	1,640	2,220	75653	8,000	1.59
	11.0	4.4 - 6.0	AK56SS							75919	8,000	1.61
	12.5	6.0 - 7.6	AK58SS							76460	8,000	1.65
	14.0	7.6 - 9.2	AK510SS							75394	8,000	1.69
4.8 4.70 - 4.88	10.0	Up To 4.7	AK64SS	5.0 - 5.1	9.25 - 9.85	-	2.62	2,260	3,110	80338	5,000	2.38
	11.5	4.7 - 6.3	AK66SS							80530	5,000	2.44
	13.0	6.3 - 7.9	AK68SS							80535	5,000	2.48
	14.7	7.9 - 9.4	AK610SS							80546	5,000	2.54
	16.3	9.4 - 11.0	AK612SS							80378	5,000	2.74
	19.5	11.0 - 14.2	AK616SS							80339	4,000	2.98
	23.5	14.2 - 18.4	AK620SS							77860	4,000	3.30

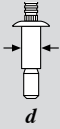
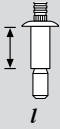
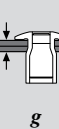
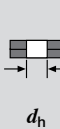
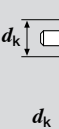
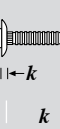
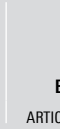
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k=Flange Thickness (Max); *d_m*=Nominal Mandrel Diameter; *S*=Nominal Shear Strength; *T*=Nominal Tensile Strength

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Ultra-Grip Domed Head

Aluminium 5% Magnesium Alloy
Mandrel: Aluminium Alloy

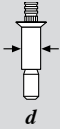
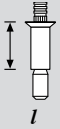
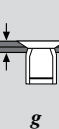
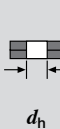
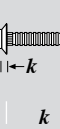
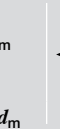
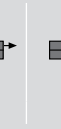
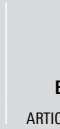


			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
4.8	10.1	1.6 - 7.0	AD670UG	4.9 - 5.1	9.2 - 9.8	2.1	3.0	3,000	2,220	62318	2,000	
	14.1	5.5 - 11.1	AD6110UG							62319	2,000	
	14.1	1.6 - 11.1	AD6110UGX							62320	2,000	
6.4	13.8	2.0 - 9.5	AD895UG	6.6 - 7.0	12.7 - 13.3	2.8	4.0	5,780	4,000	62333	1,000	
	20.3	9.0 - 16.0	AD8160UG							62334	1,000	
	20.3	2.0 - 16.0	AD8160UGX							62335	1,000	

Ultra-Grip 100° Countersunk

Aluminium 5% Magnesium Alloy
Mandrel: Aluminium Alloy



			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
4.8	11.9	3.2 - 8.5	AK685UG	4.9 - 5.1	8.1 - 8.7	1.7	3.0	3,000	2,220	62321	2,000	
	16.2	7.5 - 12.5	AK6125UG							62322	2,000	
6.4	16.6	4.0 - 12.0	AK8120UG	6.6 - 7.0	9.7 - 10.3	2.0	4.0	5,780	4,000	62336	1,000	
	23.1	10.5 - 18.5	AK8185UG							62337	1,000	

d =Nominal Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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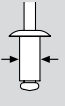
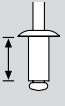
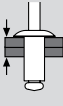
Break Stem Open

Domed Head

Carbon Steel

Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
d	l	g		dh	dk	k	dm	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
2.8 2.73 - 2.88	5.3	0.5 - 2.9	TSPD33BS	2.9 - 3.0	5.24 - 5.84	1.32	1.83	715	930	78619	10,000	1.06
3.0 2.94 - 3.08	5.0	Up To 2.0	SNSD3050BS	3.1 - 3.2	5.70 - 6.30	1.10	1.83	1,100	1,400	78446	10,000	1.12
	6.5	2.0 - 3.5	SNSD3065BS							78441	10,000	1.18
	8.0	3.5 - 5.0	SNSD3080BS							78442	10,000	1.30
	10.0	5.0 - 7.0	SNSD3100BS							78443	10,000	1.47
	12.0	7.0 - 9.0	SNSD3120BS							78444	8,000	1.54
	15.0	9.0 - 12.0	SNSD3150BS							78445	5,000	1.70
3.2 3.10 - 3.28	4.5	Up To 1.6	TSPD42BS	3.3 - 3.4	6.05 - 6.65	1.10	1.93	1,150	1,550	81939	10,000	1.17
	6.0	1.6 - 3.2	TSPD44BS							81796	10,000	1.27
	8.0	3.2 - 4.8	TSPD46BS							81728	10,000	1.39
	9.5	4.8 - 6.4	TSPD48BS							75645	10,000	1.77
	11.5	6.4 - 7.9	TSPD410BS							77994	8,000	1.60
	13.5	7.9 - 9.5	TSPD412BS							75647	8,000	1.81
	15.0	9.5 - 11.1	TSPD414BS							81780	8,000	1.85
	17.0	11.1 - 12.7	TSPD416BS							81779	8,000	1.93
	19.0	12.7 - 14.3	TSPD418BS							77996	6,000	2.03
4.0 3.85 - 4.08	5.0	Up To 1.6	TSPD52BS	4.1 - 4.2	7.72 - 8.22	1.35	2.29	1,730	2,500	78719	6,000	2.00
	7.0	1.6 - 3.2	TSPD54BS							77932	6,000	2.10
	8.5	3.2 - 4.8	TSPD56BS							78009	6,000	2.22
	10.5	4.8 - 6.4	TSPD58BS							81789	5,000	2.45
	12.2	6.4 - 7.9	TSPD510BS							75650	5,000	2.62
	14.0	7.9 - 9.5	TSPD512BS							81769	5,000	2.78
	15.9	9.5 - 11.1	TSPD514BS							81768	5,000	2.99
	17.6	11.1 - 12.7	TSPD516BS							78004	4,000	3.18
	19.5	12.7 - 13.5	TSPD517BS							on request		3.27
4.8 4.65 - 4.88	6.5	Up To 2.4	TSPD63BS	4.9 - 5.0	9.22 - 9.82	1.60	2.90	2,620	3,500	78585	4,000	3.35
	7.5	2.4 - 3.2	TSPD64BS							78042	4,000	3.40
	9.3	3.2 - 4.8	TSPD66BS							78049	4,000	3.55
	11.0	4.8 - 6.4	TSPD68BS							81727	4,000	3.88
	12.7	6.4 - 7.9	TSPD610BS							77939	3,000	4.00
	14.5	7.9 - 9.5	TSPD612BS							78032	3,000	4.53
	16.5	9.5 - 11.1	TSPD614BS							77942	3,000	4.67
	18.3	11.1 - 12.7	TSPD616BS							77944	3,000	4.83
	19.0	12.7 - 13.5	TSPD617BS							78038	3,000	4.90
	20.3	12.7 - 15.9	SD610BS							78518	2,000	4.00
	23.5	15.9 - 19.1	SD612BS							78519	2,500	4.44
	26.7	19.1 - 22.2	SD614BS							on request		5.36
	29.8	22.3 - 25.4	SD616BS							78520	2,000	6.25

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max); k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Break Stem Open

Domed Head

Carbon Steel
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
5.0 4.85 - 5.08	6.5	Up To 2.5	SNSD5065BS	5.1 - 5.2	8.70 - 9.30	1.60	2.90	2,880	3,790	77928	4,000	3.40
	8.0	2.5 - 4.0	SNSD5080BS							78463	4,000	3.55
	10.5	4.0 - 6.0	SNSD5100BS							78464	4,000	3.88
	12.0	6.0 - 8.0	SNSD5120BS							78468	3,000	4.00
	14.0	8.0 - 10.0	SNSD5140BS							78469	3,000	4.43
	16.0	10.0 - 12.0	SNSD5160BS							78470	3,000	4.67
	18.0	12.0 - 14.0	SNSD5180BS							78471	3,000	4.83
	22.0	16.0 - 18.0	SNSD5220BS							on request		5.17
6.0 5.85 - 6.08	8.0	Up To 2.0	SNSD6080BS	6.1 - 6.2	11.70 - 12.30	2.10	3.65	4,200	5,500	on request		6.40
	10.0	2.0 - 4.0	SNSD6100BS							78450	2,000	6.74
	12.0	4.0 - 6.0	SNSD6120BS							78452	2,000	7.56
	14.0	6.0 - 8.0	SNSD6140BS							78454	2,000	7.70
	16.0	8.0 - 10.0	SNSD6160BS							on request		7.88
	18.0	10.0 - 12.0	SNSD6180BS							on request		8.02
	20.0	12.0 - 14.0	SNSD6200BS							on request		8.20
6.4 6.40 - 6.51	9.5	0.5 - 3.8	TSPD8095BS	6.53 - 6.63	10.55 - 11.15	1.55	3.86	5,000	5,700	78620	2,000	6.80
	13.0	3.8 - 7.6	TSPD8130BS							78586	1,500	8.25
	18.5	7.6 - 12.7	TSPD8185BS							78607	1,500	8.47
	21.6	12.7 - 15.9	SD810BS							78521	1,000	9.20
	24.8	15.9 - 19.1	SD812BS							78522	1,000	9.92
	27.9	19.1 - 22.2	SD814BS							on request		10.60
	31.1	22.2 - 25.4	SD816BS							78562	1,000	11.30

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Break Stem Open

Large Flange

Carbon Steel

Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
d	l	g		dh	dk	k	dm	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.15 - 3.28	6.2	1.6 - 3.2	TSPD44BSLF9.5	3.3 - 3.4	9.20 - 9.80	1.50	1.91	1,150	1,550	78679	8,000	1.86
	8.0	3.2 - 4.8	TSPD46BSLF9.5							78472	6,000	2.02
	9.8	4.8 - 6.4	TSPD48BSLF9.5							78473	6,000	2.10
4.0 3.85 - 4.08	7.0	1.6 - 3.2	TSPD54BSLF12	4.1 - 4.2	11.70 - 12.30	1.65	2.29	1,730	2,500	on request		3.14
	8.5	3.2 - 4.8	TSPD56BSLF12							78477	4,000	3.28
	10.5	4.8 - 6.4	TSPD58BSLF12							78478	4,000	3.50
	12.2	6.4 - 7.9	TSPD510BSLF12							78474	4,000	3.73
	14.0	7.9 - 9.5	TSPD512BSLF12							78475	4,000	3.83
	15.9	9.5 - 11.1	TSPD514BSLF12							78476	3,000	4.07
4.8 4.65 - 4.88	7.5	Up To 3.2	TSPD64BSLF14	4.9 - 5.0	13.70 - 14.30	2.00	2.90	2,620	3,500	78661	3,000	4.60
	9.3	3.2 - 4.8	TSPD66BSLF14							on request		4.85
	11.0	4.8 - 6.4	TSPD68BSLF14							78459	3,000	5.08
	12.7	6.4 - 7.9	TSPD610BSLF14							78448	3,000	5.21
	14.5	7.9 - 9.5	TSPD612BSLF14							78479	2,000	5.75
	16.5	9.5 - 11.1	TSPD614BSLF14							78480	2,000	5.90
	19.0	11.1 - 13.5	TSPD617BSLF14							78481	2,000	6.35

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max); k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Break Stem Open

120° Countersunk

Carbon Steel
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
2.4 2.33 - 2.48	6.1	0.8 - 3.2	TSPK33BS	2.5 - 2.6	4.40 - 5.00	-	1.42	700	1,000	77570	10,000	0.78
	8.5	3.2 - 6.0	TSPK36BS							78451	10,000	0.81
3.2 3.15 - 3.28	5.4	0.8 - 2.7	TSPK42BS	3.3 - 3.4	6.05 - 6.65	-	1.93	1,150	1,550	78490	10,000	1.20
	7.3	2.7 - 4.3	TSPK44BS							81751	10,000	1.26
	9.0	4.3 - 5.8	TSPK46BS							75739	10,000	1.42
	10.8	5.8 - 7.4	TSPK48BS							81750	10,000	1.50
	12.6	7.4 - 9.0	TSPK410BS							78489	10,000	1.67
	14.4	9.0 - 10.6	TSPK412BS							81749	8,000	1.82
	16.1	10.6 - 12.2	TSPK414BS							78447	8,000	1.85
4.0 3.92 - 4.08	6.5	Up To 2.9	TSPK52BS	4.1 - 4.2	7.63 - 8.23	-	2.29	1,730	2,500	78483	6,000	2.00
	8.5	2.9 - 4.5	TSPK54BS							78288	6,000	2.10
	10.0	4.5 - 6.1	TSPK56BS							78058	6,000	2.22
	12.0	6.1 - 7.7	TSPK58BS							81746	5,000	2.44
	13.5	7.7 - 9.3	TSPK510BS							81745	5,000	2.66
	15.5	9.3 - 10.9	TSPK512BS							78488	5,000	2.77
	17.0	10.9 - 12.4	TSPK514BS							78440	5,000	3.00
4.8 4.60 - 4.83	8.4	Up To 2.4	TSPK63BS	4.9 - 5.0	9.20 - 9.80	-	2.90	2,620	3,500	78484	4,000	3.35
	9.3	2.4 - 4.8	TSPK64BS							78065	4,000	3.40
	11.1	4.8 - 6.4	TSPK66BS							78485	4,000	3.55
	12.8	6.4 - 7.9	TSPK68BS							81743	4,000	3.88
	14.6	7.9 - 9.5	TSPK610BS							78599	3,000	4.00
	16.4	9.5 - 11.1	TSPK612BS							75954	4,000	4.37
	18.2	11.1 - 12.7	TSPK614BS							78466	3,000	4.67
	20.0	12.7 - 14.3	TSPK616BS							78467	3,000	4.83
	21.0	14.3 - 15.1	TSPK617BS							78061	3,000	4.90

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);

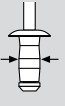
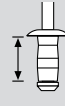
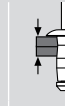
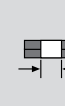
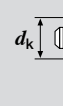
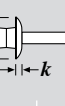
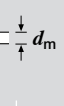
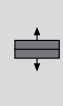
k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Vgrip® Domed Head

Carbon Steel
Mandrel: Carbon Steel

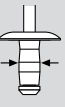
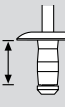
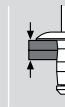
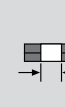
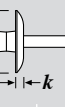
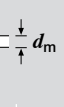
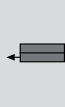
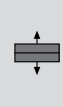


			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	
mm	mm	mm		mm	mm	mm	mm	N	N			kg
4.8 4.74 - 4.88	10.8 16.4	1.5 - 6.0 6.0 - 10.0	VG21-04810-511 VG21-04816-511	4.9 - 5.2 4.9 - 5.2	9.1 - 9.9	2.65	3.1	2,840 2,660	3,680 3,350	79204 79205	4,000 3,000	3.86 4.63

Vgrip® Large Flange

Carbon Steel
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	
mm	mm	mm		mm	mm	mm	mm	N	N			kg
4.8 4.74 - 4.88	10.6 16.2	1.5 - 6.0 6.0 - 10.0	VG22-04810-511 VG22-04816-511	4.9 - 5.2 4.9 - 5.2	15.6 - 16.4	2.25	3.1	2,840 2,658	3,680 3,346	79206 79207	3,000 2,000	5.83 6.52

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.3mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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FSR (Flush Setting Rivet) 120° Countersunk

Carbon Steel
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
d	l	g		dh	dk	k	dm	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.0 2.90 - 3.08	2.5	1.5 - 2.0	SNSK3025BHM452	3.3 - 3.4	4.90 - 5.50	1.00	1.83	800	700	78820	10,000	0.88
	2.8	2.0 - 2.4	SNSK3030BHM428							78514	10,000	0.90
	3.3	2.5 - 3.0	SNSK3035BHM446							78763	10,000	0.91
	3.8	3.0 - 3.5	SNSK3040BHM452							78821	10,000	0.93
	4.3	3.5 - 4.0	SNSK3045BHM428							78750	10,000	0.95
	4.8	4.0 - 4.5	SNSK3050BHM446							78822	10,000	0.97
	5.3	4.5 - 5.0	SNSK3055BHM452							78760	10,000	0.99
	5.8	5.0 - 5.5	SNSK3060BHM428							78819	10,000	1.01
	6.3	5.5 - 6.0	SNSK3065BHM446							78823	10,000	1.02

To ensure ultimate performance this product requires a double countersunk hole

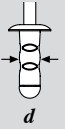
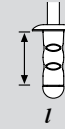
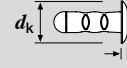
d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.3mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
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Multi-Grip Domed Head

Carbon Steel
Mandrel: Carbon Steel

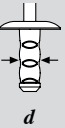
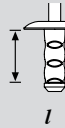
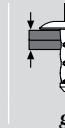
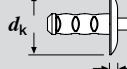


			DESCRIPTION							BULK PACK		 /1,000
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
3.2 3.05 - 3.28	8.5 12.5	1.5 - 5.0 4.0 - 8.0	MG21-03208-510 MG21-03212-510	3.3 - 3.4	5.80 - 6.60	1.20	1.93	1,200	1,600	78663 78664	10,000 8,000	1.42 1.64
4.0 3.85 - 4.08	10.5 16.5	1.5 - 6.0 4.0 - 12.0	MG21-04010-510 MG21-04016-510	4.1 - 4.2	7.40 - 8.30	1.40	2.41	1,650	2,400	78665 78666	6,000 3,000	2.48 3.10
4.8 4.65 - 4.89	10.5 16.5	1.5 - 6.0 4.0 - 11.0	MG21-04810-510 MG21-04816-510	4.9 - 5.0	9.00 - 9.80	1.60	2.90	2,700	3,200	78667 78668	4,000 3,000	3.80 4.70

Multi-Grip Large Flange

Carbon Steel
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		 /1,000
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
3.2 3.05 - 3.28	8.5 12.5	1.5 - 5.0 4.0 - 8.0	MG22-03208-510 MG22-03212-510	3.3 - 3.4	9.03 - 10.03	1.47	1.93	1,200	1,600	78669 78670	8,000 6,000	2.60 3.15
4.0 3.85 - 4.08	10.5 16.5	1.5 - 6.5 4.0 - 12.0	MG22-04010-510 MG22-04016-510	4.1 - 4.2	11.43 - 12.43	1.78	2.41	1,650	2,400	78671 78672	4,000 3,000	4.20 5.10
4.8 4.65 - 4.89	10.5 16.5	1.5 - 6.0 4.0 - 11.0	MG22-04810-510 MG22-04816-510	4.9 - 5.0	15.50 - 16.50	2.13	2.90	2,700	3,200	78673 78674	2,000 2,000	5.60 6.40

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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LSR (Load Spreading Rivet)

Domed Head

Carbon Steel
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		
<i>d</i>	<i>l</i>	<i>g</i>		<i>d_h</i>	<i>d_k</i>	<i>k</i>	<i>d_m</i>	<i>S</i>	<i>T</i>	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
4.8 4.70 - 4.97	17.2 19.5	Up To 6.35 3.0 - 8.5	SCD68BS SCD612BS	5.0 - 5.2	9.60 - 9.90	1.60	2.90	2,000	2,500	78596 78580	3,000 3,000	4.63 4.77

STR

Domed Head

Carbon Steel
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		
<i>d</i>	<i>l</i>	<i>g</i>		<i>d_h</i>	<i>d_k</i>	<i>k</i>	<i>d_m</i>	<i>S</i>	<i>T</i>	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
4.0 4.28	9.0	-	STR506RM	4.3 - 4.4	7.62 - 8.22	1.35	2.29	-	-	78711	3,000	2.37

d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max);
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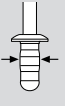
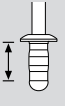
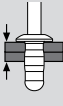
HR (High Retention)

Domed Head

Carbon Steel

Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
3.2 3.15 - 3.37	8.0	1.6 - 3.2	SD42HR	3.4 - 3.6	6.10 - 6.70	1.30	2.20	1,450	1,700	75250	1,000	1.70
	9.6	3.2 - 4.8	SD43HR							89686	1,000	1.75
	11.2	4.8 - 6.4	SD44HR							89687	1,000	1.80
4.0 3.95 - 4.17	9.0	1.6 - 3.2	SD52HR	4.2 - 4.4	7.70 - 8.30	1.70	2.80	2,000	2,600	89688	1,000	2.80
	10.6	3.2 - 4.8	SD53HR							78501	1,000	3.00
	12.2	4.8 - 6.4	SD54HR							89689	1,000	3.20
4.8 4.75 - 4.97	9.2	1.6 - 3.2	SD62HR	5.0 - 5.4	9.20 - 10.00	2.10	3.40	3,100	3,400	89690	1,000	4.30
	10.8	3.2 - 4.8	SD63HR							89691	1,000	4.60
	12.4	4.8 - 6.4	SD64HR							89692	1,000	4.90
	14.0	6.4 - 8.0	SD65HR							89693	500	5.32
6.4 6.35 - 6.57	11.3	1.2 - 4.8	SD83HR	6.6 - 7.0	12.50 - 13.50	2.70	4.60	3,900	5,350	89694	1,000	10.10
	14.5	4.8 - 8.0	SD85HR							89695	500	10.90

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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HS (High Strength) Domed Head

Carbon Steel
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		 /1,000
<i>d</i>	<i>l</i>	<i>g</i>		<i>d_h</i>	<i>d_k</i>	<i>k</i>	<i>d_m</i>	<i>S</i>	<i>T</i>	ARTICLE	BOX QTY	
mm	mm	mm		mm	mm	mm	mm	N	N			kg
6.4 6.30 - 6.57	11.4	2.8 - 4.8	SD848HS	6.6 - 7.0	12.5 - 13.5		4.0	12,000	9,000	79141	2,000	9.07
	12.0	3.4 - 5.4	SD854HS	6.6 - 7.0	12.5 - 13.5		4.0			79142	2,000	9.22
	13.4	4.8 - 6.8	SD868HS	6.6 - 7.0	12.5 - 13.5		4.0			79143	2,000	9.38
	15.4	6.8 - 8.8	SD888HS	6.6 - 7.0	12.5 - 13.5		4.0			79144	2,000	9.67

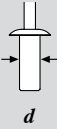
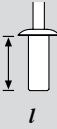
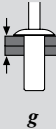
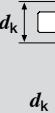
d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max);
k=Flange Thickness (Max); *d_m*=Nominal Mandrel Diameter; *S*=Nominal Shear Strength; *T*=Nominal Tensile Strength

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Closed End Domed Head

Carbon Steel
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	/1,000 kg
3.2 3.10 - 3.28	8.0	Up To 3.2	SD44SB	3.3 - 3.4	6.12 - 6.58	1.00	1.93	1,150	1,200	on request		1.46
	9.7	3.2 - 4.8	SD46SB							78641	10,000	1.48
	11.3	4.8 - 6.4	SD48SB							on request		1.56
4.0 3.85 - 4.08	8.6	Up To 3.2	SD54SB	4.1 - 4.2	7.62 - 8.22	1.20	2.29	1,730	1,860	on request		2.27
	10.2	1.6 - 4.8	SD56SB							77341	6,000	2.35
	11.8	4.8 - 6.4	SD58SB							on request		2.41
4.8 4.65 - 4.88	9.2	Up To 3.2	SD64SB	4.9 - 5.0	9.23 - 9.83	1.30	2.90	2,420	2,840	77414	4,000	3.64
	10.8	3.2 - 4.8	SD66SB							on request		3.71
	12.4	4.8 - 6.4	SD68SB							78591	4,000	3.78
	15.5	6.4 - 9.5	SD612SB							on request		4.02

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Ultra-Grip Domed Head

Carbon Steel
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
4.8	10.1	1.6 - 7.0	SD670UG	4.9 - 5.1	9.2 - 9.8	2.1	3.0	6,500	5,330	62323	2,000	
	14.1	5.5 - 11.1	SD6110UG							62324	2,000	
	14.1	1.6 - 11.1	SD6110UGX							62325	2,000	
6.4	13.8	2.0 - 9.5	SD895UG	6.6 - 7.0	12.7 - 13.3	2.8	4.0	11,800	10,000	62338	1,000	
	20.3	9.0 - 16.0	SD8160UG							62339	1,000	
	20.3	2.0 - 16.0	SD8160UGX							62340	1,000	



Ultra-Grip 100° Countersunk

Carbon Steel
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
4.8	11.9	3.2 - 8.5	SK685UG	4.9 - 5.1	8.1 - 8.7	1.7	3.0	6,500	5,330	62326	2,000	
	16.2	7.5 - 12.5	SK6125UG							62327	2,000	
6.4	16.6	4.0 - 12.0	SK8120UG	6.6 - 7.0	9.7 - 10.3	2.0	4.0	11,800	10,000	62341	1,000	
	23.1	10.5 - 18.5	SK8185UG							62342	1,000	

d =Nominal Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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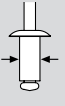
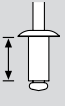
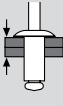
Break Stem Open

Domed Head

Stainless Steel

Mandrel: Stainless Steel



 <i>d</i>	 <i>l</i>	 <i>g</i>	DESCRIPTION	 <i>d_h</i>	 <i>d_k</i>	 <i>k</i>	 <i>d_m</i>	 <i>S</i>	 <i>T</i>	BULK PACK		 /1,000 kg
										ARTICLE	BOX QTY	
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.10 - 3.28	4.8	0.8 - 1.6	SSD41SSBS	3.3 - 3.4	6.04 - 6.65	1.10	1.93	2,400	3,000	75234	10,000	1.18
	6.4	1.6 - 3.2	SSD42SSBS							22000	10,000	1.23
	8.0	3.2 - 4.8	SSD43SSBS							22001	10,000	1.30
	9.5	4.8 - 6.4	SSD44SSBS							22002	10,000	1.40
	11.1	6.4 - 7.9	SSD45SSBS							on request		1.46
	12.7	7.9 - 9.5	SSD46SSBS							22874	10,000	1.52
	15.9	9.5 - 12.7	SSD48SSBS							24499	8,000	1.66
4.0 3.88 - 4.08	7.0	1.6 - 3.2	SSD52SSBS	4.1 - 4.2	7.53 - 8.33	1.20	2.41	4,000	5,000	78526	7,000	2.04
	8.6	3.2 - 4.7	SSD53SSBS							on request		2.06
	10.2	3.2 - 6.4	SSD54SSBS							78528	6,000	2.08
	13.3	6.4 - 9.5	SSD56SSBS							78592	5,000	2.56
4.8 4.65 - 4.88	7.6	1.6 - 3.2	SSD62SSBS	4.9 - 5.0	9.06 - 9.98	1.40	2.90	4,400	6,100	78531	4,000	3.20
	10.8	3.2 - 6.4	SSD64SSBS							78534	4,000	3.58
	14.0	6.4 - 9.5	SSD66SSBS							78495	4,000	3.80
	17.2	9.5 - 12.7	SSD68SSBS							78496	3,000	3.98
	20.3	12.7 - 15.9	SSD610SSBS							on request		4.18
	29.7	22.3 - 25.4	SSD616SSBS							on request		4.58

d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max);
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Break Stem Open

Large Flange

Stainless Steel
Mandrel: Stainless Steel

			DESCRIPTION							BULK PACK		KG /1,000
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
3.2 3.10 - 3.28	4.8	0.8 - 1.6	SSD41SSBSLF	3.3 - 3.4	9.22 - 9.98	1.65	1.93	2,400	3,000	on request		1.39
	6.4	1.6 - 3.2	SSD42SSBSLF							81525	10,000	1.43
	8.0	3.2 - 4.8	SSD43SSBSLF							76468	9,000	1.47
	9.5	4.8 - 6.4	SSD44SSBSLF							81524	8,000	1.62
	12.7	6.4 - 9.5	SSD46SSBSLF							on request		1.83
	15.9	9.5 - 12.7	SSD48SSBSLF							on request		2.05
4.0 3.89 - 4.04	13.3	6.4 - 9.5	SSD56SSBSLF	4.1 - 4.2	11.38 - 12.40	1.90	2.41	4,000	5,020	on request		
4.8 4.65 - 4.85	17.2	9.6 - 12.7	SSD68SSBSLF	4.9 - 5.0	15.24 - 16.51	2.30	2.90	4,440	6,110	77653	2,000	
	20.3	12.7 - 15.9	SSD610SSBSLF							on request		
	23.5	15.9 - 19.1	SSD612SSBSLF							on request		



Break Stem Open

120° Countersunk

Stainless Steel
Mandrel: Stainless Steel

			DESCRIPTION							BULK PACK		KG /1,000
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
3.2 3.10 - 3.28	6.4	1.6 - 3.2	SSK42SSBS	3.3 - 3.4	5.26 - 5.92	-	1.93	2,440	3,110	77204	10,000	1.22
	8.0	3.2 - 4.8	SSK43SSBS							75243	10,000	1.28
	9.5	4.8 - 6.4	SSK44SSBS							75244	10,000	1.33
4.8 4.65 - 4.85	10.8	3.2 - 6.4	SSK64SSBS	4.9 - 5.0	8.46 - 9.22	-	2.90	4,440	6,110	on request		
	17.1	9.6 - 12.7	SSK68SSBS									

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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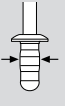
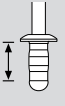
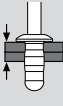
HR (High Retention)

Domed Head

Stainless Steel

Mandrel: Stainless Steel



			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
3.2 3.15 - 3.37	8.0	1.3 - 3.2	SSD42SSHR	3.4 - 3.6	6.10 - 6.70	1.30	2.20	1,900	2,500	89710	1,000	
	9.6	3.2 - 4.8	SSD43SSHR							78502	1,000	
	11.3	4.8 - 6.4	SSD44SSHR							89711	1,000	
4.0 3.95 - 4.17	9.0	1.6 - 3.2	SSD52SSHR	4.2 - 4.4	7.70 - 8.30	1.70	2.80	2,800	3,800	89712	1,000	
	10.6	3.2 - 4.8	SSD53SSHR							89713	1,000	
	12.2	4.8 - 6.4	SSD54SSHR							89714	1,000	
4.8 4.75 - 4.97	9.2	1.3 - 3.2	SSD62SSHR	5.0 - 5.4	9.20 - 10.00	2.10	3.40	4,700	5,000	89715	1,000	4.30
	10.8	3.2 - 4.8	SSD63SSHR							89716	1,000	4.60
	12.4	4.8 - 6.4	SSD64SSHR							89717	1,000	4.90

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max); k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Closed End Domed Head

Stainless Steel
Mandrel: Stainless Steel

			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.15 - 3.28	6.6	Up To 1.6	TD42GT	3.3 - 3.4	6.12 - 6.65	0.87	2.00	2,100	2,220	76462	10,000	1.45
	8.0	1.6 - 3.2	TD44GT							82068	10,000	1.46
	9.7	3.2 - 4.8	TD46GT							82067	10,000	1.47
	11.3	4.8 - 6.4	TD48GT							82066	10,000	1.52
	12.9	6.4 - 7.9	TD410GT							78235	8,000	1.60
4.0 3.94 - 4.08	8.6	Up To 3.2	TD54GT	4.1 - 4.2	7.62 - 8.22	1.00	2.36	3,300	4,000	77425	6,000	2.30
	10.2	3.2 - 4.8	TD56GT							77424	6,000	2.36
	11.8	4.8 - 6.4	TD58GT							77423	6,000	2.41
	13.4	6.4 - 7.9	TD510GT							76463	5,000	2.47
4.8 4.73 - 4.88	9.2	Up To 3.2	TD64GT	4.9 - 5.0	9.23 - 9.83	1.25	2.97	4,300	4,400	77422	4,000	3.42
	10.8	3.2 - 4.8	TD66GT							77421	4,000	3.56
	12.5	4.8 - 6.4	TD68GT							77426	4,000	3.66
	15.5	6.4 - 9.5	TD612GT							77415	4,000	3.88
	18.5	9.5 - 12.7	TD616GT							76447	3,000	5.03
6.4 3.38 - 6.48	14.2	Up To 6.4	TD808GT	6.5 - 6.6	12.40 - 13.00	1.35	3.93	6,800	8,700	25870	2,000	7.13
	15.7	6.4 - 7.9	TD810GT							77427	1,500	8.43
	20.5	7.9 - 12.7	TD816GT							77428	1,500	9.03

d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max);
k=Flange Thickness (Max); *d_m*=Nominal Mandrel Diameter; *S*=Nominal Shear Strength; *T*=Nominal Tensile Strength

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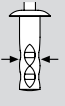
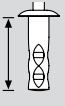
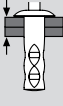
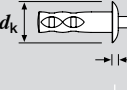
TVD Closed End

Domed Head

Stainless Steel

Mandrel: Stainless Steel



			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
4.0 3.94 - 4.08	12.9	4.0 - 6.0	TVD505GT	4.1 - 4.2	7.37 - 8.22	1.1	2.29	3,000	3,000	78231	6,000	2.43
4.8 4.73 - 4.88	12.3	2.0 - 4.5	TVD603GT	5.0 - 5.1	9.10 - 9.95	1.25	2.97	4,300	4,800	77695	4,000	3.75
	13.7	3.5 - 6.0	TVD605GT							76897	3,000	3.83
	15.3	5.0 - 7.5	TVD607GT							77697	3,000	4.87
	16.8	6.5 - 9.0	TVD609GT							77698	3,000	4.80
	19.7	9.0 - 11.5	TVD613GT							77699	3,000	5.13

d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max); *k*=Flange Thickness (Max); *d_m*=Nominal Mandrel Diameter; *S*=Nominal Shear Strength; *T*=Nominal Tensile Strength

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Ultra-Grip

Domed Head

Stainless Steel
Mandrel: Stainless Steel

			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	/1,000
4.8	10.1	1.6 - 7.0	SSD670UG	4.9 - 5.1	9.2 - 9.8	2.1	3.0	5,780	4,220	62328	2,000	
	14.1	5.5 - 11.1	SSD6110UG							62329	2,000	
	14.1	1.6 - 11.1	SSD6110UGX							62330	2,000	
6.4	13.8	2.0 - 9.5	SSD895UG	6.6 - 7.0	12.7 - 13.3	2.8	4.0	10,450	8,000	62343	1,000	
	20.3	9.0 - 16.0	SSD8160UG							62344	1,000	
	20.3	2.0 - 16.0	SSD8160UGX							62345	1,000	

Ultra-Grip

100° Countersunk

Stainless Steel
Mandrel: Stainless Steel

			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	/1,000
4.8	11.9	3.2 - 8.5	SSK685UG	4.9 - 5.1	8.1 - 8.7	1.7	3.0	5,780	4,220	62331	2,000	
	16.2	7.5 - 12.5	SSK6125UG							62332	2,000	
6.4	16.6	4.0 - 12.0	SSK8120UG	6.6 - 7.0	9.7 - 10.3	2.0	4.0	10,450	8,000	62346	1,000	
	23.1	10.5 - 18.5	SSK8185UG							62347	1,000	

d =Nominal Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
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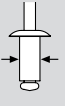
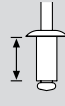
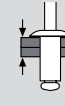
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Break Stem Open

Domed Head

Nickel Copper Alloy
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
2.8 2.74 - 2.88	5.0 5.5	Up To 1.8 1.8 - 2.3	TLPD319BS TLPD321BS	2.9 - 3.0	4.70 - 5.06	0.60	1.83	1,150	1,300	78717 78685	10,000 10,000	0.95 0.95
3.2 3.15 - 3.25	5.0	0.5 - 1.8	TLPD419BS	3.3 - 3.4	5.80 - 6.17	0.72	1.93	1,500	1,900	82268	10,000	1.22
	6.2	1.8 - 3.1	TLPD424BS							25329	10,000	1.30
	7.5	3.1 - 4.3	TLPD429BS							25330	10,000	1.42
	9.0	4.3 - 5.8	TLPD435BS							25331	10,000	1.44
	10.3	5.8 - 7.1	TLPD440BS							25332	10,000	1.52
4.0 3.85 - 4.08	6.2	Up To 2.5	TLPD524BS	4.1 - 4.2	6.50 - 6.90	0.80	2.29	2,200	3,000	25350	8,000	2.10
	7.8	2.5 - 4.1	TLPD530BS							78415	6,000	2.24
	9.5	4.1 - 5.8	TLPD537BS							77490	6,000	2.51
	10.3	5.8 - 6.6	TLPD540BS							77494	6,000	2.58
	11.5	6.6 - 7.9	TLPD545BS							79302	6,000	2.66
4.8 4.70 - 4.88	7.7	2.3 - 3.8	TLPD630BS	4.9 - 5.0	7.85 - 8.40	1.27	2.90	3,300	3,750	78073	4,000	3.22
	9.3	3.8 - 5.1	TLPD636BS							77614	4,000	3.32
	10.0	5.1 - 5.8	TLPD639BS							77619	4,000	3.72
	12.8	5.8 - 8.6	TLPD650BS							78593	4,000	3.90
	16.5	8.6 - 12.5	TLPD665BS							78588	3,000	4.51
	19.0	12.5 - 15.0	TLPD675BS							77678	3,000	4.68
6.4 6.32 - 6.48	13.0	Up To 7.6	TLPD850BS	6.5 - 6.7	10.50 - 11.10	1.60	3.86	5,400	6,750	78613	1,500	8.2
	18.0	7.6 - 12.7	TLPD870BS							78614	1,500	8.8

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
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Break Stem Open

120° Countersunk

Nickel Copper Alloy
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		
d	l	g		dh	dk	k	dm	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
2.8 2.74 - 2.88	5.5 6.0	0.5 - 2.3 2.3 - 2.8	TLPK319BS	2.9 - 3.0	4.7 - 5.1	-	1.83	1,150	1,300	79096	10,000	0.96
			TLPK321BS							79097	10,000	0.97
3.2 3.15 - 3.25	5.8 7.0 8.5 10.0 11.2	0.8 - 2.5 2.5 - 3.8 3.8 - 5.1 5.1 - 6.6 6.6 - 7.9	TLPK419BS	3.3 - 3.4	5.8 - 6.2	-	1.93	1,500	1,900	25338	10,000	1.25
			TLPK424BS							25339	10,000	1.30
			TLPK429BS							25340	10,000	1.40
			TLPK435BS							25341	10,000	1.47
			TLPK440BS							25342	10,000	1.50
4.0 3.92 - 4.08	7.2 8.7 10.5 11.3	Up To 3.3 3.3 - 4.8 4.8 - 6.6 6.6 - 7.4	TLPK524BS	4.1 - 4.2	6.5 - 6.9	-	2.29	2,200	3,000	25363	8,000	2.10
			TLPK530BS							78416	6,000	2.24
			TLPK537BS							77500	6,000	2.51
			TLPK540BS							77504	6,000	2.58
4.8 4.70 - 4.88	9.0 10.5 11.0 14.0 18.0 20.5	3.1 - 4.6 4.6 - 5.8 5.8 - 6.6 6.6 - 9.4 9.4 - 13.2 13.2 - 15.8	TLPK630BS	4.9 - 5.0	7.85 - 8.40	-	2.90	3,300	3,750	78075	4,000	3.18
			TLPK636BS							78896	4,000	3.32
			TLPK639BS							77634	4,000	3.72
			TLPK650BS							77640	4,000	4.87
			TLPK665BS							77683	3,000	4.51
			TLPK675BS							77685	3,000	4.67
6.4 6.40 - 6.50	14.5 19.4	4.6 - 8.4 8.4 - 13.5	TLPK850BS	6.6 - 6.7	10.60 - 11.10	-	3.86	5,400	6,750	78611	1,500	7.87
			TLPK870BS							78612	1,500	8.60

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
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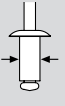
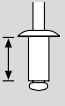
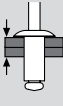
Break Stem Open

Domed Head

Nickel Copper Alloy

Mandrel: Stainless Steel



			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.15 - 3.25	5.0	0.5 - 1.8	TLPD419SS	3.3 - 3.4	5.80 - 6.17	0.72	1.93	1,500	1,900	25333	10,000	1.24
	6.2	1.8 - 3.1	TLPD424SS							25334	10,000	1.27
	7.5	3.1 - 4.3	TLPD429SS							25335	10,000	1.40
	9.0	4.3 - 5.8	TLPD435SS							25336	10,000	1.50
	10.3	5.8 - 7.1	TLPD440SS							25337	10,000	1.50
4.0 3.85 - 4.08	6.2	Up To 2.5	TLPD524SS	4.1 - 4.2	6.50 - 6.90	0.80	2.29	2,200	3,000	76166	6,000	2.08
	7.8	2.5 - 4.1	TLPD530SS							78071	6,000	2.22
	9.5	4.1 - 5.8	TLPD537SS							77492	6,000	2.48
	10.3	5.8 - 6.6	TLPD540SS							77496	6,000	2.57
	11.5	6.6 - 7.9	TLPD545SS							77498	6,000	2.67
4.8 4.70 - 4.88	7.7	2.3 - 3.8	TLPD630SS	4.9 - 5.0	7.85 - 8.40	1.27	2.90	3,300	3,750	78074	4,000	3.18
	9.3	3.8 - 5.1	TLPD636SS							77617	4,000	3.37
	10.0	5.1 - 5.8	TLPD639SS							77621	4,000	3.72
	12.8	5.8 - 8.6	TLPD650SS							77627	4,000	3.90
	16.5	8.6 - 12.5	TLPD665SS							77675	3,000	4.51
	19.0	12.5 - 15.0	TLPD675SS							77681	3,000	4.68
	21.7	15.0 - 17.5	TLPD685SS							82151	3,000	5.76

d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max);
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Break Stem Open

120° Countersunk

Nickel Copper Alloy
Mandrel: Stainless Steel



			DESCRIPTION							BULK PACK		
d	l	g		dh	dk	k	dm	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.15 - 3.25	5.8	0.8 - 2.5	TLPK419SS	3.3 - 3.4	5.80 - 6.20	-	1.93	1,500	1,900	25344	10,000	1.22
	7.0	2.5 - 3.8	TLPK424SS							25345	10,000	1.30
	8.5	3.8 - 5.1	TLPK429SS							25346	10,000	1.37
	10.0	5.1 - 6.6	TLPK435SS							25347	10,000	1.47
	11.2	6.6 - 7.9	TLPK440SS							25348	10,000	1.50
4.0 3.92 - 4.08	7.2	Up To 3.3	TLPK524SS	4.1 - 4.2	6.50 - 6.90	-	2.29	2,200	3,000	25368	6,000	2.08
	8.7	3.3 - 4.8	TLPK530SS							25369	6,000	2.22
	10.5	4.8 - 6.6	TLPK537SS							77502	6,000	2.48
	11.0	6.6 - 7.4	TLPK540SS							77505	6,000	2.57
4.8 4.70 - 4.88	9.0	3.1 - 4.6	TLPK630SS	4.9 - 5.0	7.85 - 8.40	-	2.90	3,300	3,750	78076	4,000	3.18
	11.0	5.8 - 6.6	TLPK639SS							77635	4,000	3.73
	14.0	6.6 - 9.4	TLPK650SS							on request		4.23
	18.0	9.4 - 13.2	TLPK665SS							77684	3,000	4.49
	20.5	13.2 - 15.8	TLPK675SS							77686	3,000	4.67

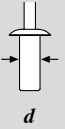
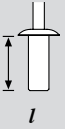
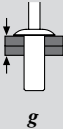
d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_f =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Please enquire to Emhart Customer Service. For the latest catalogue digital version please visit www.emhart.eu

Closed End Domed Head

Nickel Copper Alloy
Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	/1,000 kg
3.2 3.10 - 3.28	8.0	Up To 3.2	LD44SB	3.3 - 3.4	6.12 - 6.58	1.00	1.93	1,500	1,900	82112	10,000	1.45
	9.7	3.2 - 4.8	LD46SB							24570	10,000	1.56
	11.3	4.8 - 6.4	LD48SB							on request		1.59
	13.0	6.4 - 7.9	LD410SB							78232	8,000	1.64
4.0 3.85 - 4.08	8.5	Up To 3.2	LD54SB	4.1 - 4.2	7.67 - 8.17	1.20	2.29	2,200	3,000	on request		2.40
	10.2	3.2 - 4.8	LD56SB							77406	6,000	2.45
	11.8	4.8 - 6.4	LD58SB							77429	6,000	2.50
	13.4	6.4 - 7.9	LD510SB							on request		2.59
4.8 4.65 - 4.88	9.2	Up To 3.2	LD64SB	4.9 - 5.0	9.23 - 9.83	1.30	2.90	3,300	3,750	77407	4,000	3.62
	10.8	3.2 - 4.8	LD66SB							77713	4,000	3.85
	12.4	4.8 - 6.4	LD68SB							77408	4,000	3.97
	15.5	6.4 - 9.5	LD612SB							on request		4.19

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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Break Stem Open Domed Head

Copper

Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.10 - 3.28	4.5	Up To 1.3	TCPD42BS	3.3 - 3.4	6.05 - 6.65	1.10	1.83	800	1,200	22379	10,000	1.23
	5.3	1.3 - 2.1	TCPD43BS							81624	10,000	1.30
	6.3	2.1 - 2.9	TCPD44BS							22375	10,000	1.37
	8.0	2.9 - 4.5	TCPD46BS							22380	10,000	1.43
	9.8	4.5 - 6.1	TCPD48BS							22235	10,000	1.52
4.0 3.85 - 4.08	7.0	Up To 3.2	TCPD54BS	4.1 - 4.2	7.75 - 8.15	1.25	2.29	1,330	1,910	78120	8,000	1.85
	10.5	3.2 - 6.4	TCPD58BS							24107	5,000	2.01
	14.0	6.4 - 9.5	TCPD512BS							81632	5,000	2.14

d=Nominal Diameter, Min - Max Diameter; *l*=Body Length (+/- 0.5mm); *g*=Grip Range (Min - Max); *d_h*=Hole Size (Min - Max); *d_k*=Flange Diameter (Min - Max);
k=Flange Thickness (Max); *d_m*=Nominal Mandrel Diameter; *S*=Nominal Shear Strength; *T*=Nominal Tensile Strength

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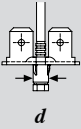
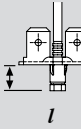
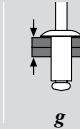
Terminal Tag

Domed Head

Copper

Mandrel: Carbon Steel (Copper Finish)



			DESCRIPTION									BULK PACK		
mm	mm	mm		mm	mm	mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
4.0	5.3	Up To 2.0	PMC46/01	5.15 - 5.20	1	10.5	6.3	8	2.3	1,330	1,910	on request		
4.0	5.3	Up To 2.0	PMC2/6.3	5.15 - 5.20	2	21	6.3	8	2.3	1,330	1,910	on request		
	5.3	Up To 2.0	PMC4/6.3	5.15 - 5.20	4	42	6.3	8	2.3	1,330	1,910	on request		

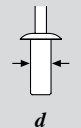
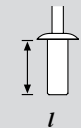
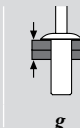
Closed End

Domed Head

Copper

Mandrel: Carbon Steel



			DESCRIPTION							BULK PACK		
mm	mm	mm		mm	mm	mm	mm	N	N	ARTICLE	BOX QTY	kg
3.2	6.0	Up To 1.6	CD42SB	3.3 - 3.4	5.70 - 6.30	1.10	1.65	1,020	1,420	75338	10,000	1.08
3.10 - 3.28	7.5	1.6 - 3.2	CD44SB							75339	10,000	1.23
	9.0	3.2 - 4.8	CD46SB							75340	10,000	1.24
	12.3	4.8 - 7.9	CD410SB							75341	10,000	1.46
4.0	9.5	Up To 4.8	CD56SB	4.1 - 4.2	7.62 - 8.22	1.50	2.18	1,550	2,260	77474	6,000	2.42
3.85 - 4.08	12.7	4.8 - 7.9	CD510SB							75343	5,000	2.58
4.8	8.5	Up To 3.2	CD64SB	4.9 - 5.0	9.23 - 9.83	1.75	2.64	2,130	3,110	77476	4,000	3.45
4.70 - 4.88	11.5	3.2 - 6.4	CD68SB							77477	4,000	3.82
	13.0	6.4 - 7.9	CD610SB							75346	5,000	3.91
	14.5	7.9 - 9.5	CD612SB							77475	3,000	4.21
	18.0	9.5 - 12.7	CD616SB							on request		4.74

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max); k =Flange Thickness (Max);

d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength; t =Number of Tags; sw =Shoulder Width; tw =Tag Width; tl =Tag Length

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Closed End 120° Countersunk

Copper
Mandrel: Carbon Steel

			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.15 - 3.28	6.9	Up To 2.5	CK42SB	3.3 - 3.4	5.70 - 6.30	-	1.63	1,020	1,420	on request		0.98
	8.5	2.5 - 4.1	CK44SB							on request		1.09
	10.1	4.1 - 5.6	CK46SB							on request		1.15
	13.3	7.2 - 8.8	CK410SB							on request		1.23
4.0 3.94 - 4.01	10.9	4.4 - 6.0	CK56SB	4.06 - 4.17	7.62 - 8.22	-	2.18	1,550	2,260	on request		2.31
	14.1	7.6 - 9.2	CK510SB							on request		2.58
4.8 4.73 - 4.82	9.9	Up To 4.7	CK64SB	4.88 - 4.99	9.23 - 9.83	-	2.64	2,130	3,110	on request		3.65
	13.1	6.3 - 7.9	CK68SB							77478	4,000	3.82
	16.3	9.4 - 11.0	CK612SB							on request		3.91



Closed End Domed Head

Copper
Mandrel: Stainless Steel

			DESCRIPTION							BULK PACK		
d	l	g		d _h	d _k	k	d _m	S	T	ARTICLE	BOX QTY	/1,000
mm	mm	mm		mm	mm	mm	mm	N	N			kg
3.2 3.10 - 3.28	6.0	Up To 1.6	CD42SS	3.3 - 3.4	5.70 - 6.30	1.10	1.65	1,020	1,420	24341	10,000	1.16
	7.5	1.6 - 3.2	CD44SS							23312	10,000	1.22
	9.0	3.2 - 4.8	CD46SS							23384	10,000	1.33
	12.0	6.4 - 7.9	CD410SS							25538	10,000	1.49
4.0 3.85 - 4.08	9.5	Up To 4.8	CD56SS	4.1 - 4.2	7.62 - 8.22	1.50	2.18	1,550	2,260	on request		2.11
	12.7	4.8 - 7.9	CD510SS							on request		2.28
4.8 4.70 - 4.88	8.5	Up To 3.2	CD64SS	4.9 - 5.0	4.23 - 4.83	1.75	2.64	2,130	3,110	78423	4,000	3.38

d =Nominal Diameter, Min - Max Diameter; l =Body Length (+/- 0.5mm); g =Grip Range (Min - Max); d_h =Hole Size (Min - Max); d_k =Flange Diameter (Min - Max);
 k =Flange Thickness (Max); d_m =Nominal Mandrel Diameter; S =Nominal Shear Strength; T =Nominal Tensile Strength

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POP® Rivet Setting Tools

POP® setting equipment includes a range of tools and systems designed to offer the user the best features available in the market today. Durable, reliable and high quality, these tools and systems can increase the efficiency of your production lines.



Power Tools

The ProSet® range of power tools have been designed with the needs of the production line in mind. Lightweight and ergonomic with high force-to-weight ratio with quick disconnect front end and MCS assembly, ProSet® power tools improve efficiency and reduce maintenance down time.

Classic POP® Tools

The PRG range of power tools have proved to be the “work horse” choice for many manufacturing environments. Robust and heavy duty, these tools have earned the title of “Classic POP® Tools”.

Battery Tool

The POP® MCS5800 battery tool is ideal for site and maintenance work and comes complete with steel carry case and battery charger.

Hand Tools

POPSet® rivet hand tools are the choice of the professional. Reliable, robust and lightweight, the POPSet® range includes hand plier, lazy tong and lever tools.

POP® Rivet Setting Tools

This quick guide can help you to select the right tool for your setting requirements.

		Capacity mm (Rivet Dia)	Weight	Open	Closed	T Rivet	HR	Ultra-Grip	HS
TT55D		2.4 - 4.0	0.56kg	●	●	●	●	●	●
PS15		2.4 - 4.8	0.6kg	●	●	●	●	●	●
PS25		2.4 - 6.4	2.4kg	●	●	●	●	●	●
PS40		2.4 - 6.4	1.9kg	●	●	●	●	●	●
PS45		2.4 - 6.4	2.6kg	●	●	●	●	●	●
ProSet® 1600		2.0 - 4.0	1.0kg	●	●	●	●	●	●
ProSet® 2500		2.8 - 4.8	1.3kg	●	●	●	●	●	●
ProSet® 3400		2.8 - 6.4	2.0kg	●	●	●	●	●	●
PRG510		2.4 - 4.0	1.8kg	●	●	●	●	●	●
PRG540		2.8 - 6.4	2.2kg	●	●	●	●	●	●
5250		2.8 - 4.8	1.8kg	●	●	●	●	●	●
5800		2.8 - 4.8	2.2kg	●	●	●	●	●	●

Key	● Recommended	● Not recommended
	● Rivet diameter does not suit tool capacity	● Requires additional nosepiece

To ensure best practise we have provided a detailed chart showing the recommended nosepiece configurations for each tool and rivet range.

Please refer to "POP® Nosepieces" on page 79.

ProSet® Rivet Power Tools

Setting a New Standard



The ProSet® range of pneumatic power tools are ideal for production line environments.

- Lightweight polymer construction
- High force-to-weight ratio
- Comfortable two finger activation
- Quick disconnect front end assembly
- Quick disconnect MCS
- Energy saving On/Off, left or right swivel air fitting
- Directionable air exhaust (MCS models)
- Air isolation during MCS removal
- Spring return for reliable, fast setting cycle
- Available in MCS or deflector (PRT) version

Compatible with

Rivet Presenter



MCS5000



Speciality Heads



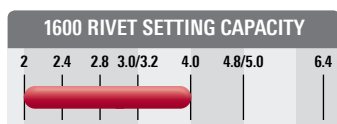
ProSet® Rivet Power Tools

ProSet® MCS version



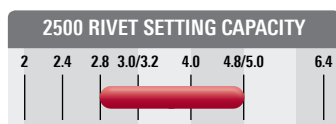
ProSet® 1600 MCS

Compact, lightweight and reliable pneumatic power tool, ideal for production line environments.



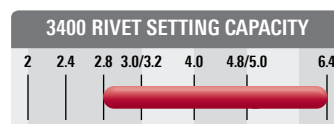
ProSet® 2500 MCS

Sets a new standard for pneumatic rivet tools. High force to weight ratio and innovative ergonomic design for maximum user efficiency and comfort.



ProSet® 3400 MCS

High capacity pneumatic rivet tool. Capable of setting the full range of POP® rivets up to 6.4mm Stainless Steel.



Also available
in Deflector version



ProSet® 1600

1600 MCS 1600

ProSet® 2500

2500 MCS 2500

ProSet® 3400

3400 MCS 3400

Article:	13492	13491	14063	14062	63408	63407
Weight:	1.04kg	0.97kg	1.31kg	1.2kg	2.0kg	1.9kg
Length:	274mm	275mm	304mm	290mm	334mm	309mm
Height:	227mm	227mm	259mm	259mm	316mm	316mm
Tool Stroke:	18mm	18mm	18mm	18mm	26mm	26mm
Pulling Force:	4850N @ 6.2 bar	4850N @ 6.2 bar	9400N @ 6.2 bar	9400N @ 6.2 bar	18500N @ 6.2 bar	18500N @ 6.2 bar
Force/Weight ratio:	4.6kN/kg	5kN/kg	7.18kN/kg	7.83kN/kg	9.25kN/kg	9.74kN/kg
Air Consumption:	70 l/min (max)	1.22 litres/rivet	70 l/min (max)	2.15 litres/rivet	80 l/min (max)	4.86 litres/rivet

Classic POP® Tools



PRG510

Robust, heavy duty pneumatic riveting tool for setting POP® rivets up to 4.0mm.



PRG540

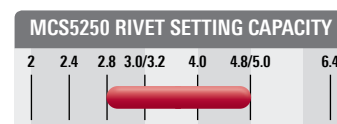
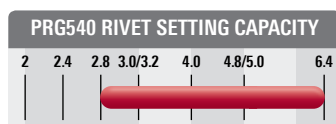
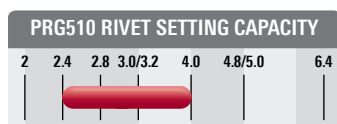
Robust, heavy duty pneumatic hydraulic riveting tool for setting the full range of POP® rivets.



MCS5250

In-Line Pneumatic-Hydraulic rivet tool design for suspension and riveting in a vertical plane.

The MCS5250 system is complete with the remote vacuum mandrel collector MCS5000.



	PRG510	MCS510	PRG540	MCS540	MCS5250
Article:	16260	16317	16500	16450	15685
Weight:	1.8kg	1.8kg	2.2kg	2.2kg	1.8kg
Length:	166mm	310mm	230mm	343mm	397mm
Height:	293mm	293mm	293mm	293mm	—
Tool Stroke:	15.87mm	15.87mm	17.4mm	17.4mm	15.87mm
Pulling Force:	4.48kN	4.48kN	14.2kN	14.2kN	7.56kN

Compatible with



POP® MCS5800 Battery Tool

For setting rivets up to 5.0mm. Ideal for site and maintenance work and applications where compressed air is not available.

Features & Benefits:

- High capacity, rechargeable battery pack included
- Supplied with or without steel carry case and charger
- Mandrel collection system included

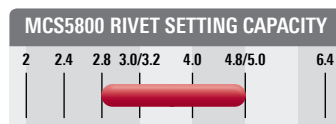
Article: 15700 (UK version)
15701 (EU version)

Weight: 2.2kg

Length: 265mm

Height: 300mm

Tool Stroke: 20mm



Comes complete with NEW Li-Ion battery

Benefits of Li-Ion battery technology:

- Lighter battery
- High energy yield per charge
- No memory effect, or reduction of performance in case of partial charge
- High life expectancy

Article: 16000 Battery
16002 UK Charger
16001 EU Charger



Tool Accessories

Corner Heads

The POP® range of 90° corner heads offer a solution for setting POP® rivets where access is restricted.

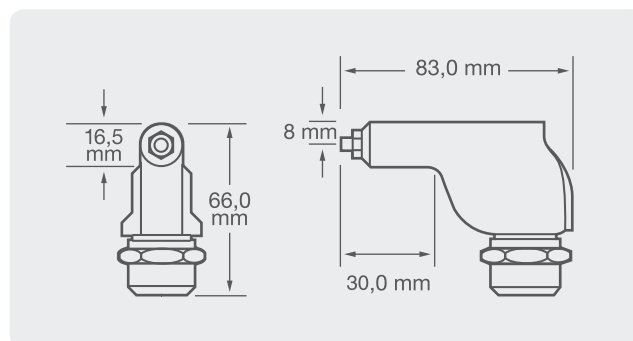
PRH830

Article: 19480

Capacity: up to 3.2mm

Weight: 0.31kg

For use with:	
ProSet® 2500	Adaptor Kit: 18731
PRG510	19490
PRG540	19488



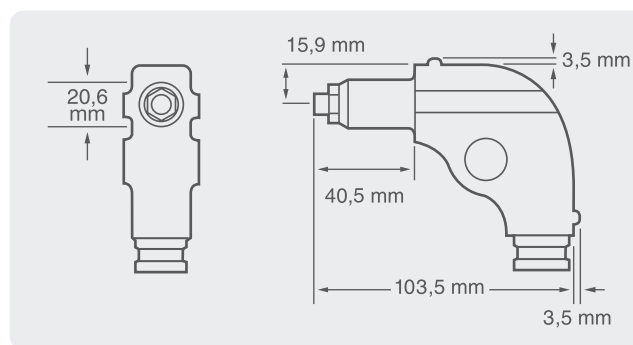
PRH840

Article: 19024

Capacity: up to 4.8mm

Weight: 0.5kg

For use with:	
ProSet® 2500	Adaptor Kit: 18737
ProSet® 3400	18750
PRG510	19153
PRG540	19145



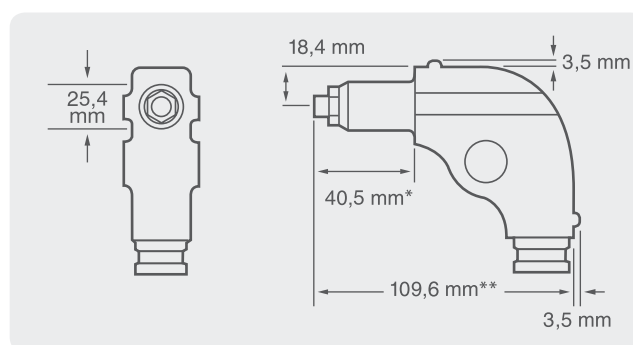
PRH850

Article: 19240

Capacity: up to 6.4mm

Weight: 0.76kg

For use with:	
ProSet® 3400	Adaptor Kit: 18869
PRG540	19254



* This dimension is for the 8 size rivet version.
The dimension is 43.5 for the 6 size and smaller rivet version.

** This dimension is for the 8 size rivet version.
The dimension is 112.6 for the 6 size and smaller rivet version.

ProSet® Front End Kits

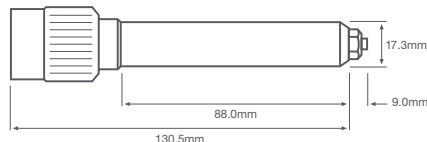
The ProSet® range of front end kits provides the ability to set rivets in deep or narrow access applications.

ProSet® 1600

Extended front end for deep applications

Article: 13495

Capacity: 2.4 - 4.0mm

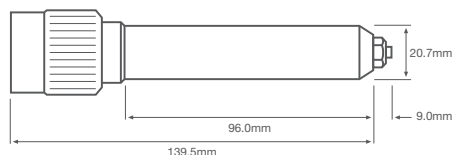


ProSet® 2500

Extended front end for deep applications

Article: 13163

Capacity: 3.0 - 4.8mm

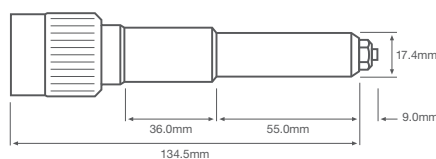


ProSet® 2500

Reduced diameter extended front end for narrow applications

Article: 13164

Capacity: 3.0 - 4.0mm

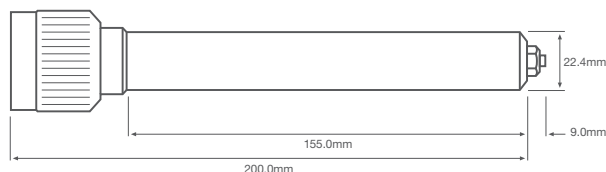


ProSet® 3400

Extended front end for deep applications

Article: 13172

Capacity: 3.2 - 6.4mm



MCS5000

Supplied with the MCS5250, the MCS5000 remote vacuum mandrel collector can hold upto 8500 spent mandrels increasing production line efficiency and promoting easy removal and recycling of scrap mandrels.

Article:	15684
Weight:	2.2kg
Height:	414mm
Diameter:	527mm
Air pressure:	6.1bar max.
Air consumption:	317 litres/min
Max tube length:	4.5m
Max rise:	1.8m
Max mandrel length:	50mm
Capacity:	upto 8500 spent mandrels

For use with:	
	Adaptor Kit:
ProSet® 1600	16637
ProSet® 2500	16637
ProSet® 3400	16637
PRG510	15686
PRG540	15687

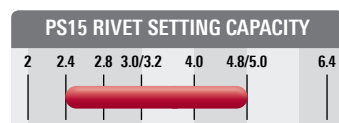


POPSet® Rivet Hand Tools

The POPSet® range of professional hand tools are lightweight, robust and easy to use. POPSet® tools are ideal for low volume manufacturing environments and site work.

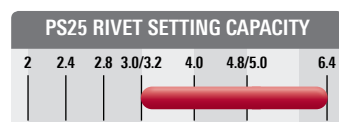
PS15 Professional Hand Plier Rivet Tool

Article: 17492
Weight: 0.6kg
Length: 245mm



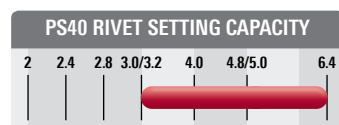
PS25 Heavy Duty Lazy Tong Rivet Tool

Article: 17496
Weight: 2.4kg
Length closed: 305mm
Length extended: 805mm



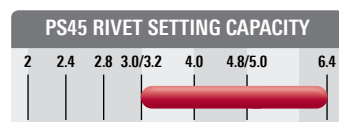
PS40 Lever Rivet Tool

Article: 17493
Weight: 1.9kg
Length: 515mm



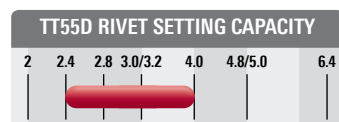
PS45 Heavy Duty Lever Rivet Tool

Article: 17494
Weight: 2.6kg
Length: 490mm
Length extended: 665mm



TT55D Robust Lightweight Hand Plier Rivet Tool

Article: 15370
Weight: 0.56kg
Length: 229mm



All hand tools are supplied with a nosepiece wrench and nosepieces to suit their capacity.

POP® Nosepieces

POP® Rivet Power Tools

Article	Nosepieces	Rivet Type	Riv Dia	ProSet® 1600	PRG 510	ProSet® 2500	MCS 5250	PRG 540	ProSet® 3400
15801*	PRN214	Open	2.00	●					
17595	PRN314	Open	2.40	●	●				
16216	PRN414	Open: all materials; Closed: St, SS, NC / Steel mandrel	2.80 - 3.20	●	●	●	●	●	●
16214	PRN514	Open: all materials; Closed: St, SS, NC / Steel mandrel	4.00	●	●	●	●	●	●
17623	PRN614	Open & Closed: St, SS, NC	4.80		●	●	●	●	●
16546	PRN811	Open: all materials; Closed: St, SS, NC / Steel mandrel	6.40					●	●
16213	PRN424	Closed: Aluminium / Steel mandrel	3.20	●	●	●	●	●	●
16215	PRN524	Closed: Aluminium / Steel mandrel	4.00	●	●	●	●	●	●
17598	PRN624	Open & Closed: Aluminium / Steel mandrel	4.80			●	●	●	●
16547	PRN822	Open & Closed: Aluminium / Steel mandrel	6.40					●	●
16548	PRN434	Closed: Aluminium / Aluminium mandrel	3.20	●	●	●	●	●	●
17597	PRN534	Closed: Aluminium / Aluminium mandrel	4.00	●	●	●	●	●	●
16549	PRN634	Closed: Aluminium / Aluminium mandrel	4.80			●	●	●	●
16490	PRN625	T-Rivet	4.80			●	●	●	●
16491	PRN825	T-Rivet	6.40					●	●
19422	PRN4HR	HR	3.20	●	●	●	●	●	●
19423	PRN5HR	HR	4.00	●	●	●	●	●	●
19424	PRN6HR	HR	4.80			●	●	●	●
15406	N-406	Ultra-Grip	4.80			●		●	●
19496	N-407	Ultra-Grip	6.40					●	●
42257	PRN8PS	HS	6.40					●	●

* Requires PRG402-02 Jaws and FAN239-176 Jaw Pusher. Refer to tool manual.

● Nosepiece supplied with tool ● Recommended nosepiece, supplied separately

POP® Rivet Hand Tools

Article	Nosepieces	Rivet Type	Riv Dia	TT55D	PS15	PS25	PS40	PS45
15371	TT55 Nosepiece 3/32	Open	2.40	●				
15372	TT55 Nosepiece 1/8	Open and Closed	2.80 - 3.20	●				
15373	TT55 Nosepiece 5/32	Open and Closed	4.00	●				
12213	DPM400-A08	Open	2.40		●			
12214	DPM400-B08	Open and Closed	2.80 - 3.20		●			
12216	DPM400-C08	Open and Closed	4.00		●			
12218	DPM400-D08	Open and Closed	4.8 - 5.0		●			
12215	DPM400-B10	Open and Closed	2.80 - 3.20			●	●	●
12217	DPM400-C10	Open and Closed	4.00			●	●	●
12219	DPM400-D10	Open and Closed	4.8 - 5.0			●	●	●
12220	DPM400-E10	Open	6.00			●	●	●
12221	DPM400-F10	Open and Closed	6.40			●	●	●
49952	DPM400-DUG	Ultra-Grip	4.80			●	●	●
49953	DPM400-FUG	Ultra-Grip	6.40			●	●	●

● Nosepiece supplied with tool ● Recommended nosepiece, supplied separately

POP® Rivet Battery Tool

Article	Nosepieces	Rivet Type	Riv Dia	MCS 5800
15709	MCS5800-14	Open & Closed / Steel mandrel	2.40 - 3.20	●
15711	MCS5800-15	Open: all materials	2.80 - 3.20	●
15713	MCS5800-16	Open & Closed: Alu / Steel mandrel*	3.20 - 4.00	●
15713	MCS5800-16	Open & Closed / Aluminium mandrel	4.0	●
15715	MCS5800-17	Open & Closed / Steel mandrel*	4.0	●
15717	MCS5800-18	Open & Closed: all materials	4.8/5.0	●

Further tool / nosepiece configurations may be possible for the rivet you have selected. Please contact Emhart for further technical advice.

Open rivets incorporate: Break Stem Open, Vgrip®, LSR, MGR, FSR, Peel, Grooved and STR rivet types

Closed rivets incorporate: Closed end and TVD rivet types

A further selection of nosepieces are available for MCS5800, please refer to POP® Tools Spares Guide.

* Use this nosepiece for Grooved, Multigrip and pure aluminium open rivets in 3.2mm diameter.

Riveting Systems

Rivet Presenter



Rotary bowl rivet feeding system

Used in conjunction with a POP® rivet tool the Rivet Presenter System offers single-handed, high-speed rivet feeding and setting. Automatic mandrel collection of up to 8500 mandrels can be achieved by adding the MCS5000 remote mandrel collector.

Each time the front of the rivet tool is inserted into the receptacle at the front of the Rivet Presenter a rivet is automatically and instantaneously loaded into the front of the tool. Rivets are stored in a rotary feeder bowl and continuously fed down a track into the receptacle ready for the next cycle.

Features & Benefits:

- Feeder bowl capacity up to 1,000 rivets
- Feeder bowl refilled in a few seconds
- Significant reductions in riveting cycle times possible
- Manual rivet feeding is eliminated enabling a white glove environment
- Single-handed operation leaves one hand free for other operations
- Enclosed feeder bowl and mandrel collection help keep working environment free from spilt rivets and mandrels
- For use with 3.2mm - 4.8mm rivets
- Height: 336mm, Length: 546mm, Width: 222mm, Weight: 10.4kg
- Air pressure: 5.8bar

DESCRIPTION	FOR RIVET DIAMETER	ARTICLE	RIVET CAPACITY
RP4E	3.2mm	14960	1,000 rivets
RP5E	4.0mm	14961	600 rivets
RP6E	4.8mm	14962	400 rivets

Multi-Head



Multiple rivet setting and assembly fixture workstations

Emhart's Multi-Head riveting systems are purpose-built solutions designed to suit specific customer applications.

Using modular components, complete workstations are designed and built for individual customer needs. A single pneumatic-hydraulic intensifier provides hydraulic power to multiple rivet-setting heads. Any number of setting heads can be incorporated into the design*.

Single or multiple rivet setting heads are mounted onto a plate or rail and can be configured in different positions in the X and Y axes to suit the location of rivets in a given application.



Features & Benefits:

- Riveting workstation doubles as fixture for building complex assemblies
- De-cluttered working environment
- Simultaneous rivet setting saves time and equalises stress throughout the assembly, preserving product quality
- Foot operated trigger frees up both hands for rivet loading and component assembly to reduce assembly cycle time and limit operator fatigue
- High reliability minimises downtime
- Integral assembly jiggig ensures accuracy of fastening
- Integral bulk mandrel collection eliminates hazard of dropped mandrels

**Note: as the number of heads increases, multiple intensifiers may become necessary.*

Marketing Support

www.emhart.eu

For all the latest POP® information.

The website contains many new and exciting features to assist you in choosing the right fastener for your application.

Only three clicks to end product with fast web page navigation.

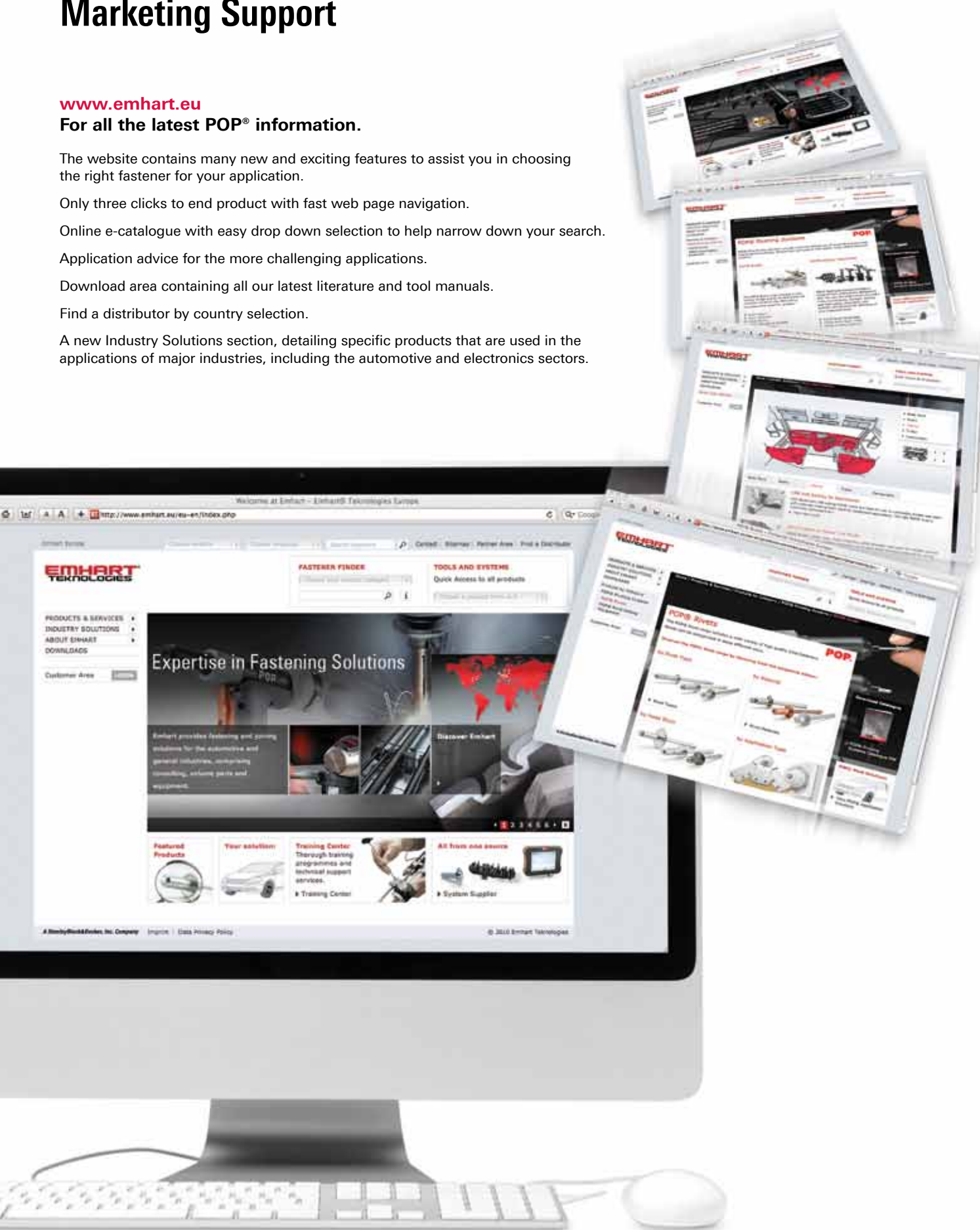
Online e-catalogue with easy drop down selection to help narrow down your search.

Application advice for the more challenging applications.

Download area containing all our latest literature and tool manuals.

Find a distributor by country selection.

A new Industry Solutions section, detailing specific products that are used in the applications of major industries, including the automotive and electronics sectors.



Marketing Support

Emhart partners its distributors by offering many innovative marketing initiatives.



Point-of-Sale Material

POP® branded high quality displays

Places POP® products where your customers can get their hands on them. Items include: Counter Display, Midi-System, Wobblers, Posters and Door Stickers.

Branded Advertising

Proud to stock POP®

Be proud to stock POP® Rivets and Tools, with our joint branded advertising and literature.

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EUROPE

United Kingdom

Emhart Teknologies
Tucker Fasteners
177 Walsall Road
Birmingham, B42 1BP
United Kingdom
Tel: +44 121 356 4811
Fax: +44 121 356 1598
csduk@bdk.com

The Netherlands

Emhart Teknologies
P.O. Box 70
6120 AB Born
The Netherlands
Tel: +31 43 750 2020
Fax: +31 43 750 2030

Spain

Emhart Teknologies
Sistemas de Fijacion Tucker
Carretera M-300
KM. 29,700
28802 Alcalá de Henares
Madrid, Spain
Tel: +34 91 887 1470
Fax: +34 91 882 3602
sft.pedidos@bdk.com

France

Emhart Teknologies
Emhart SNC
Zone Immoparc
Route de Chartres, Bât Loire 4
78190 TRAPPES
France
Tel: +33 1 30 50 91 00
Fax: +33 1 30 51 07 08
csdfr@bdk.com

Germany

Emhart Teknologies
Tucker Fasteners GmbH
Max-Eyth-Strasse 1
D-35394 Giessen
Germany
Tel: +49 641 405 0
Fax: +49 641 405 366
pop.de@bdk.com

Norway

Emhart Teknologies
Emhart Sjong
P.O. Box 203
Skjutbanevägen 6
S-701 44 Örebro
Sweden
Tel: +47 22 90 99 90
Fax: +46 19 26 00 38
info@emhart-teknik.se

Denmark

Emhart Teknologies
Emhart Harttung A/S
Roskildevej 22
2620 Albertslund
Denmark
Tel: +45 44 84 11 00
Fax: +45 44 84 62 12
salg.danmark@bdk.com

Sweden

Emhart Teknologies
Emhart Teknik AB
P.O. Box 203
Skjutbanevägen 6
S-701 44 Örebro
Sweden
Tel: +46 19 20 58 00
Fax: +46 19 26 00 38
info@emhart-teknik.se

Finland

Emhart Teknologies
Emhart Finland
Kumpulantie 13B
PL47
FI-00521, Helsinki
Finland
Tel: +358 9 819 0060
Fax: +358 9 812 428
myynti.emhart@bdk.com

Czech Republic

Emhart Teknologies
Tucker s.r.o.
Tel: +420 725 800 454
Fax: +420 493 546 567

Poland

Emhart Teknologies
Masterfix Poland LTD
ul. Daleka 16
60-124 Poznań, Poland
Tel: +48 61 86 66 297
Fax: +48 61 86 65 733

AMERICAS

USA - Connecticut

Emhart Teknologies
4 Corporate Drive, Suite 395
Shelton, CT 06484
USA
Tel: +1 203 925 2260
Fax: +1 203 925 2279

Canada

Emhart Teknologies
9870 Boulevard Du Golf
Anjou, Quebec
Canada H1J 2Y7
Tel: +1 514 351 0330
Fax: +1 514 351 0458

Mexico

Emhart Teknologies
Bosque De Cidros
Acceso Radiatas No 42
Bosque De Las Lomas,
3a Seccion, Mexico City
Mexico DF 05120
Tel: +52 55 5326 7100
Fax: +52 55 5236 7141

Brazil

Emhart Teknologies
Emhart Refal
Rua Ricardo Cavatton, 226
CEP: 05038-110 São Paulo
Brazil
Tel: +55 11 3871 6460
Fax: +55 11 3611 3505

ASIA

China

Emhart Teknologies
Shanghai Emhart Fastening
Systems
488 Jialou Road
Jaiding District
Shanghai 201807, China
Tel: +86 21 5954 8626
Fax: +86 21 5954 8775

Japan

Emhart Teknologies
Shuwa Kioicho Park Building 302
3-6 Kioicho, Chiyoo-Ku
Tokyo, 1020094, Japan
Tel: +81 3 3265 7291
Fax: +81 3 3265 7298

Korea

Emhart Teknologies
Seorin Building
45-15 Yeoido-Dong
Yeongdeungpo-Ku
Seoul, 150-891, R.O. Korea
Tel: +82 2 783 9226
Fax: +82 2 783 9228

India

Emhart Teknologies
APEX Towers, 5th Floor
No 54, 2nd Main Road
R.A. Puram, Chennai- 600028
India
Tel: +91 44 4306 0639
Fax: +91 44 4306 0768

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