SI CORPORATION

Total Global Fastening Technology Company

SI Technologies

Total Global Fastening Systems

As an one of leading fastening system company, we are specialized in providing total fastening services as like developing, producing, distributing and A/S in an industrial field.

Fasteners are used in wide range of areas from automotive, appliances, shipbuilding, elevator, construction to general industrial field. We develop and produce high quality of fasteners and propose the most suitable parts for customers.

With the customers reliability that gained from world-class technologies, productive capacity and sound growth with honesty, SI corp. also endeavor to provide the best hardware and development skills for auto roller blind ass'y & wind deflector ass'y products applicated to panorama sunroof systems based on our fastening technologies.

Under the belief that reliability with customer is an essential key to survive, we will dedicate our best effort for technical development, quality management and customer satisfaction based on strict quality control.

Thank you.

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▣ HISTORICAL MILESTONE

1999
Established SAMIL Co.
-RIVET, INSERT NUT (Mar)

2001
Changed to SI corporation (Dec)

2002
Technical Alliance with Emhart Teknologies (Mar)

2003
Registered as a business partner of
Renault Samsung Motors (Mar)
Acquired ISO 9001 certification (Dec)

2005
Acquired QS9000 certification (Feb)

2007
Selected as A MAIN-BIZ (Oct)
Relocated and expanded plant
in Dalchen–dong(Nov)

2008
Acquired ISO/TS16949 certification (Aug)
Acquired ISO14001 certification (Sep)

2009
Registered as a business partner of Hyundai & Kia Motors
and started transactions.(Nov)
- Code number (SM2G) - RIVET TOOL
Established R&D department (Jul)

2010
Selected as a INNO-BIZ (Oct)
Construction of AUTO ROLLER BLIND ass'y LINE(Dec)

2011
Acquired China Compulsory Certification(CCC) (Jan)
Selected as a Parts Specialized company (Mar)
Acquired SQ certification – Sewing A class (Aug)
Obtained certificate of patent– 10-1086090 (Nov)
Relocated and expanded plant
at Gilcheon Industrial Complex (Nov)

2012
Selected as A MAIN-BIZ (Mar)
Acquired Renault Samsung SES-Tier 2 certification (Aug)
Obtained certificate of patent -10-1193600 (Oct)

2013
Acquired SQ certification – Hardware A class (Apr)

▣ CERTIFICATIONS

ISO9001

ISO/TS16949

ISO14001

Certificate of patent
10-1193600

Certificate of patent
10-1086090

China Compulsory
Certification (CCC)

HKMC SQ certification
Sewing A class

HKMC SQ certification
Hardware A class

Renault Samsung
SES Tier 2

HARDWARE PRODUCTION LINE

EXHIBIT HALL

LABORATORY

▣ BUSINESS SECTION We design and produce fasteners & sunroof parts.

1. FASTENERS

- BLIND RIVET, BLIND NUT, HARDWARE, PRECISION PARTS

BLIND RIVET	NUT	BOLT & SCREW	OTHERS
STANDARD RIVET	BLIND TYPE NUT	GENERAL BOLT	PIN
MULTI BLIND RIVET	TETRA NUT	PRESS TYPE BOLT	CLINCH NUT
CAP RIVET	HEXA NUT	TAPTITE SCREW	INSERT NUT
PEEL TYPE RIVET	WELL NUT	DELTA PT SCREW	PRECISION PARTS
FOLDING TYPE RIVET	PRESS TYPE NUT		OTHERS
SPEED RIVET	INSERT NUT		

2. SUNROOF SYSTEM

- AUTO ROLLER BLIND ASS`Y / WIND DEFLECTOR ASS`Y

We have production system of
roller blind ass`y that blocks sunlight & UV,
and wind deflector ass`y that reduces wind & noise
when you open the sunroof in a car.

< ROLLER BLIND ASS`Y >

< WIND DEFLECTOR ASS`Y >

▣ APPLICATIONS

For improvement of work efficiency and weight reduction of vehicles,
our hardware products are used in specific parts of cars and sold throughout the world.
Our hardware is applied to wide range of applications not only vehicle but also ship building, appliances, machinery, and plays very important role for quality of products.

SUNROOF SYSTEM

ROLLER BLIND ASSY

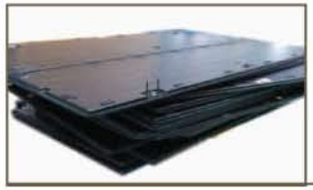
WIND DEFLECTOR ASSY

BLIND RIVET, SCREW,

PRECISION METAL CUTTING PARTS

COVERING SHELF

Ø3.2 BLIND RIVET



LUGGAFE BOARD

Ø4.0 TL RIVET, Ø10*5 MAGNETIC

AIR DUCT

Ø4.0 TL RIVET

DOOR MODULE

Ø4.8, 6.4 BLIND RIVET

BUMPER AL BEAM

INSERT NUT : M6, M8
Ø4.8 SPEED RIVET

OIL PIPE PROTECTOR

Ø4.8 BLIND RIVET

▣ TESTING EQUIPMENT

Our products are administered by fastidious quality control team and our high-standard quality control system leads to customer satisfaction.

Coating thickness gauge

Salt water spray

Projector

UTM

Vickers hardness tester

Rockwell hardness tester

Mounting & Fleecing M/

Metaloscope

▣ PRODUCING EQUIPMENT

< in 2013. March >

SEWING MACHINE (total 4 units)	
DLU-5490N-6	1
LS2-B737-415S	2
LU-1510N	1

ROLLER BLIND ASS'Y TOOL (total 17 units)	
Grease paint line	4
Spring caulking M/C	3
Tube forcer	3
Tension rewinder	3
FABRIC Roller	4

LASER CUTTING MACHINE (total 4 units)	
MPC-6515	3
JG – 13090	1

HARDWARE MACHINE (total 12 units)	
Parts former	2
NUT former	1
BOLT former	1
Heading M/C	2
Rolling M/C	2
Vision inspection M/C	1
Milling M/C	1
Lathe	1
Drill	1

Measuring Instruments	Total 10 units
Coating thickness gauge	1 unit
Projector	1 unit
UTM	1 unit
Vickers hardness tester	1 unit
Rockwell hardness tester	1 unit
Metaloscope	1 unit
Salt water spray	1 unit
Diamond saw	1 unit
Mounting M/C	1 unit
Fleecing M/C	1 unit

Gauges	Total 36 units
V-block	4 units
Electronic scale	4 units
Vernier callipers	9 units
micrometer	2 units
Granite Surface Plate	1 unit
Plug gauge	5 units
Torque gauge	1 unit
Ring pitch gauge	4 units
Gono gauge	5 units
Height gauge	1 unit

SI HARDWARE

BLIND RIVET

- BLIND TYPE RIVET 8
  - Standard Type 9
  - Multi Type 10
  - Sealed Type 12
  - Cap Type 13
  - Peel Type 13
  - Folding Type 14
  - Speed Type 15

NUT

- BLIND TYPE NUT 17
  - Standard 18
  - Hexa 19
  - Tetra 20
  - Sealed nut 21
  - Well Nut 22
- PRESS TYPE NUT 23
  - Clinch Nut 24
  - Spacer 25
- INSERT TYPE NUT 26

BOLT & SCREW

- PRESS TYPE BOLT 28
- TAPTITE SCREW 29
- DELTA PT® SCREW 30

OTHERS

- PRECISION PARTS & HARDWARE 31

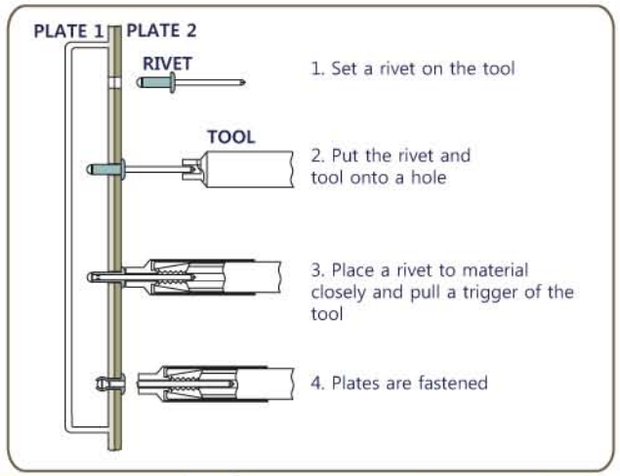
▣ HARDWARE _ BLIND RIVET

A blind rivet makes one direction work possible, so you can use it in closed space. Blind rivet doesn't require skilled technique so it brings higher productivity and cost efficiency. It is ideal for vibrating place instead of screw or welding.

< Features of Blind Rivet >

1. It's good for fastening different materials.
2. There are many kinds of rivets different from purpose, material, thickness.
3. Even novice can work easily with easy process of fastening
4. You can make durable products without looseness.
5. You can save the whole operational costs with fast work.

< Fastening Process of Blind Rivet >



1. STANDARD TYPE

Our standard blind rivet is well known for it's quality and it is applied to various applications as like cars, ships and appliances. Depending on materials and thickness, you should use defferent kinds of blind rivet.

Size : Φ2.4 3.2 4.0 4.8
Head Type : Dome, Countersunk
Material : AL, STEEL, SUS

2. MULTI TYPE

Multi-grip blind rivet is useful for various materials and thicknesses. It can be applied to wide ranges of standards.

Size : Φ3.2 4.0 4.8 6.4
Head Type : Dome, Countersunk
Material : AL, STEEL, SUS

4. SEALED TYPE

Sealed type rivets incorporates a unique cup-shaped end configuration that seals tight, preventing passage of vapor or liquid around or through the set rivet.

Size : Φ3.2 4.0 4.8 6.4
Head Type : Dome, Countersunk
Material : AL, SUS, BRASS

3. CAP TYPE

The outside of the rivet body is covered with nylon cap so it is useful when you need waterproof function.

Size : Φ3.2 4.0 4.8
Head Type : Dome
Material : AL, STEEL (Cap : Nylon)

5. PEEL TYPE

The specially designed mandrel splits the rivet body 4 ways. It's good for soft materials and also good when the space under the rivet is not enough.

Size : Φ4.0 4.8
Head Type : Dome
Material : AL

6. FOLDING TYPE

When you fastening, the body of folding type rivet is devided to three ways and then folded. This type rivet is used to soft materials as like plastic.

Size : Φ4.0 4.8
Head Type : Dome
Material : AL

7. SPEED TYPE

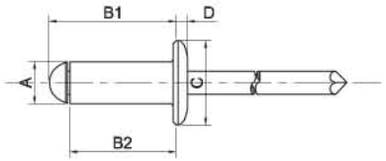
This kind of speed rivet increases riveting speed In the way that dozens of rivets are inserted in a tool and fires in rapid succession. It raise the efficiency of production and it's good for soft materials.

Size : Φ2.4 3.2 4.0 4.8
Head Type : Dome, Countersunk
Material : AL, STEEL, SUS, BRASS

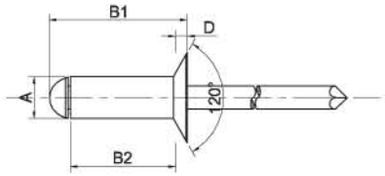
1. STANDARD TYPE

Our standare blind rivet is well known for it's quality and it is applied to various applications as like cars, ships and appliances. Depending on materials and thickness, you should use defferent kinds of blind rivet.

* Consult with us about special specifications



*ROD■■■: Dome type



*ROC■■■: Countersunk type

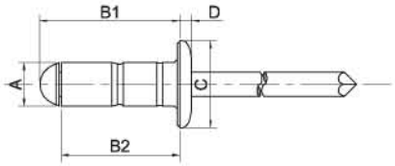
Classified Code	BODY		MANDREL	
	MATERIAL	FINISH	MATERIAL	FINISH
R■■A5T	A5056	Polished	Steel	Zinc plated
R■■STT	Steel	Zinc plated Cr^{3+}	Steel	Zinc plated Cr^{3+}
R■■SSS	Stainless steel	Polished	Stainless steel	Natural

Part Name		Fastener Size	Grip Range (mm)		Hole Size (mm)		Dimension (mm)							Strength (N)						Note
Classified Code	Size No.						A		B1	B2	C		D	Tensile			Shear			
			MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX	MIN	MAX	±0.2	R■■A5T	R■■STT	R■■SSS	R■■A5T	R■■STT	R■■SSS	
RODA5T RODSTT RODSSS ROCA5T ROCSTT ROCSSS	03006■	Φ 2.4	1.00	3.20	2.40	2.60	2.30	2.50	8.5	6.0	4.60	5.0	0.9	710			470			*R■■A5T type only
	03009■		3.20	6.40					11.8	9.0										
	04006■	Φ 3.2	1.60	3.20	3.30	3.40	3.10	3.30	8.6	6.4	6.20	6.60	1.1	1360	2160	2350	910	1370	2060	*In case of R■■SSS, Add Dim. D to 1.0
	04008■		3.20	4.80					10.2	8.0										
	04010■		4.80	6.40					11.7	9.5										
	04011■		6.40	8.00					13.4	11.2										
	04013■		8.00	9.60					14.9	12.7										
	04016■		9.60	12.80					18.1	15.9										
	05007■	Φ 4.0	1.60	3.20	4.10	4.30	3.90	4.10	9.9	7.0	7.80	8.20	1.4	2110	2940	4410	1390	2060	3040	*In case of R■■SSS, Add Dim. D to 0.8
	05009■		3.20	4.80					11.5	8.6										
	05010■		4.80	6.40					13.1	10.2										
	05013■		6.40	9.60					16.2	13.3										
	05017■		9.60	12.80					19.4	16.5										
	06008■	Φ 4.8	2.30	3.20	4.90	5.20	4.70	4.90	10.7	7.6	9.30	9.90	1.6	3120	4600	5600	2140	2350	3730	*In case of R■■SSS, Add Dim. D to 0.9
	06009■		3.20	4.80					12.3	9.2										
	06011■		4.80	6.40					13.9	10.8										
	06014■		6.40	9.60					17.1	14.0										
	06017■		9.60	12.80					20.3	17.2										
	06020■		12.80	16.00					23.4	20.3										

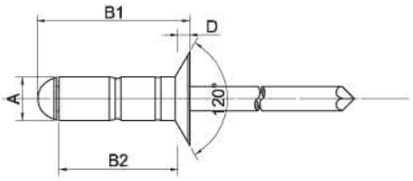
2. MULTI TYPE_1

Multi-grip blind rivet is useful for various materials and thicknesses.
It can be applied to wide ranges of standards.

* Consult with us about special specification



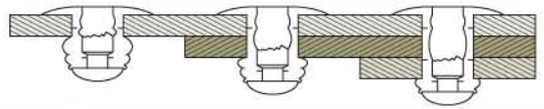
*RDO■■■: Dome type



*RCS■■■: Countersunk type

Fastened to thin plate

Fastened to thick plates



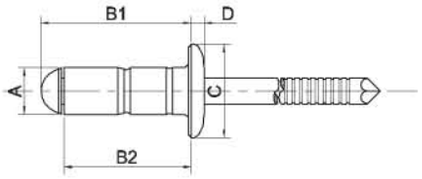
Classified Code	BODY		MANDREL	
	MATERIAL	FINISH	MATERIAL	FINISH
R■■A1T	A1100	Polished	Steel	Zinc coated
R■■A5T	A5052	Polished/Natural	Steel	Zinc coated

Part Name		Fastener Size	Grip Range (mm)		Hole Size (mm)		Dimension (mm)							Strength (N)				Note
Classified Code	Size No.		MIN	MAX	MIN	MAX	A MIN	A MAX	B1 MAX	B2 MAX	C MIN	C MAX	D ±0.2	Tensile R■■A1T	Tensile R■■A5T	Shear R■■A1T	Shear R■■A5T	
RDOA1T RDOA5T RCSA1T RCSA5T	04006P	Φ 3.2	0.50	3.20	3.30	3.40	3.10	3.30	8.2	6.0	6.2 (5.2)	6.6 (5.8)	1.3 (1.1)	740	780	490	540	* (xx.x) is Countersunk type size
	04008P		1.00	4.80					10.2	8.0								
	04011P		1.00	6.40					13.2	11.0								
	04013P		3.00	8.40					15.2	13.0								
	04016P		3.00	11.30					18.2	16.0								
	05008P	Φ 4.0	1.00	4.00	4.10	4.30	3.90	4.10	10.9	8.0	7.8 (6.1)	8.2 (6.7)	1.5 (1.3)	1130	1570	780	880	* (xx.x) is Countersunk type size
	05011P		1.00	7.00					13.9	11.0								
	05013P		3.00	9.00					15.9	13.0								
	05016P		5.00	11.00					18.9	16.0								
	05020P		5.00	14.00					22.9	20.0								
	06008P	Φ 4.8	1.00	3.60	4.90	5.20	4.70	4.90	11.1	8.0	9.3 (8.3)	9.9 (8.9)	1.7 (1.6)	1570	2160	1080	1470	* (xx.x) is Countersunk type size
	06011P		1.00	6.40					14.1	11.0								
	06016P		3.00	11.60					19.1	16.0								
	06020P		5.00	15.20					23.1	20.0								
	06022P		6.00	17.00					25.1	22.0								
	06025P		6.00	20.00					28.1	25.0								
	08013N	Φ 6.4	1.00	4.50	6.60	6.80	6.30	6.50	18.0	13.3	12.40	13.20	2.5	-	3400	-	2600	*RDOA5T type only
	08016N		4.50	8.00					21.0	16.3								
	08020N		8.00	14.00					25.0	20.3								
	08025N		14.00	17.50					30.0	25.3								

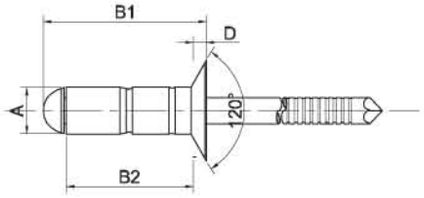
2. MULTI TYPE_2

Multi-grip blind rivet is useful for various materials and thicknesses.
It can be applied to wide ranges of standards.

* Consult with us about special specification



*RDO■■■: Dome type



*RCS■■■: Countersunk type

Classified Code	BODY		MANDREL	
	MATERIAL	FINISH	MATERIAL	FINISH
R■■STT	Steel	Zinc plated	Steel	Zinc plated
R■■SSS	Stainless Steel	Natural	Stainless Steel	Natural

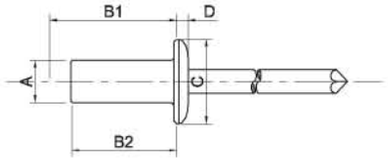
Part Name		Fastener Size	Grip Range (mm)		Hole Size (mm)		Dimension (mm)							Strength (N)		Note
Classified Code	Size No.		MIN	MAX	MIN	MAX	A MIN	A MAX	B1 MAX	B2	C MIN	C MAX	D ±0.2	Tensile	Shear	
RDOSSS	04014N	Φ 3.2	1.00	7.00	3.30	3.40	3.10	3.30	14.2	11.5	7.20	7.60	0.9	2200	1700	
	05016N	Φ 4.0	2.00	8.00	4.10	4.30	3.90	4.10	15.1	12.9	8.00	8.40	1.3	3400	2700	
	06011N	Φ 4.8	1.50	5.10	4.90	5.10	4.70	4.90	12.2	9.4	9.50	10.10	1.4	5000	4500	
	06014N		1.50	6.30					13.7	11.5						
	06018N		1.50	9.50					17.0	14.5						
RCSSSS	06018N	Φ 4.8	2.40	9.50	4.90	5.00	4.70	4.90	17.5	14.6	8.40	8.80	1.4	5000	4500	

Part Name		Fastener Size	Grip Range (mm)		Hole Size (mm)		Dimension (mm)							Strength (N)		Note
Classified Code	Size No.		MIN	MAX	MIN	MAX	A MIN	A MAX	B1 MAX	B2	C MIN	C MAX	D ±0.2	Tensile	Shear	
RDOSTT	04014P	Φ 3.2	5.00	7.00	3.30	3.40	3.10	3.30	14.2	11.5	7.20	7.60	0.9	1000	1400	
	05016P	Φ 4.0	2.00	8.00	4.10	4.30	3.90	4.10	15.1	12.9	7.80	8.20	1.3	1500	2000	
	06011P	Φ 4.8	1.50	5.10	4.90	5.10	4.70	4.90	12.2	9.4	9.50	10.10	1.4	2700	2900	
	06014P		1.50	6.30					13.7	11.5						
	06018P		1.50	9.50					17.0	14.5						
	08018P	Φ 6.4	1.50	7.60	6.50	6.60	6.30	6.48	19.0	16.5	12.80	13.20	2.6	3100	3600	
RCSSTT	06018P	Φ 4.8	2.40	9.50	4.90	5.00	4.70	4.90	17.5	14.6	8.40	8.80	1.4	2700	2900	

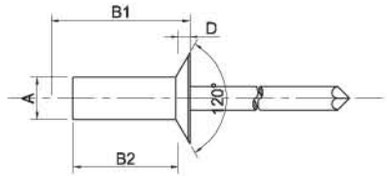
3. SEALED TYPE

Sealed type rivets incorporates a unique cup-shaped end configuration that seals tight, preventing passage of vapor or liquid around or through the set rivet. In addition Closed-End Sealed type Rivets provide up to 23% greater tensile strength than equivalent open-end typed. Finally these closed-end rivets provide 100% mandrel retention. Also this can be an important factor in such applications as electric and electronic equipment. This type rivet is available with dome or countersunk head styles and with solid core or hollow core mandrel in a variety of material combinations including stainless.

* Consult with us about special specification



*RLD■■■: Dome type



*RLC■■■: Countersunk type

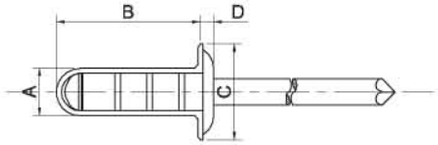
Classified Code	BODY		MANDREL	
	MATERIAL	FINISH	MATERIAL	FINISH
RL■A5T	Aluminum	Natural	Steel	Zinc plated
RL■A5A	Aluminum	Natural	Aluminum	Natural

Part Name		Fastener Size	Grip Range (mm)				Hole Size (mm)	Dimension (mm)							Strength (N)		Note
Classified Code	Size No.		RLDA5T		RLCA5T			A		B		C		D	Tensile	Shear	
			MIN	MAX	MIN	MAX		MIN	MAX	RLDA5T	RLCA5T	MIN	MAX	±0.3			
RLDA5T RLCA5T	04006N	Φ 3.2	1.0	1.6	-	-	3.3	3.09	3.31	6.0	-	5.7	6.3	1.0	1120	1580	
	04008N		1.6	3.2	4.6	3.2				7.6	8.6						
	04009N		3.2	4.8	3.2	4.8				9.2	10.2						
	04011N		4.8	6.4	4.8	6.4				10.8	11.8						
	04013N		6.4	8.0	6.4	8.0				12.4	13.4						
	05008N	Φ 4.0	1.2	3.2	2.2	3.2	4.1	3.89	4.07	8.0	9.4	7.6	8.4	1.4	1640	2480	
	05010N		3.2	4.8	3.2	4.8				9.6	11.0						
	05011N		4.8	6.4	4.8	6.4				11.2	12.6						
	05013N		6.4	8.0	-	-				12.8	-						
	06008N	Φ 4.8	1.6	3.2	2.5	3.2	4.9	4.69	4.87	8.4	10.1	9.1	11.1	1.7	2340	3350	
	06010N		3.2	4.8	3.2	4.8				10.0	11.7						
	06012N		4.8	6.4	4.8	6.4				11.6	13.2						
	06013N		6.4	8.0	6.4	8.0				13.1	14.8						
	06015N		8.0	9.6	8.0	9.6				14.7	16.4						
	06018N		9.6	12.8	9.6	12.8				17.9	19.6						
	08012N	Φ 6.4	3.2	6.4	-	-	4.9	6.29	6.47	12.3	-	12.2	13.4	2.3	4110	6320	
	08016N		6.4	9.6	-	-				15.5	-						
RLDA5A RLCA5A	04008N	Φ 3.2	1.0	3.2	-	-	3.3	3.09	3.31	7.6	-	5.7	6.3	1.0	550	570	
	04009N		3.2	4.8	-	-				9.2	-						
	05011N	Φ 4.0	1.2	6.4	-	-	4.1	3.89	4.07	11.2	-	7.6	8.4	1.4	880	1100	
	06008N	Φ 4.8	1.6	3.2	-	-	4.9	4.69	4.87	8.4	-	9.1	11.1	1.7	1230	1530	
	06012N		3.2	6.4	-	-				11.6	-						
	06015N		6.4	9.6	-	-				14.7	-						
	06018N		9.6	12.8	-	-				17.9	-						

4. CAP RIVET

The outside of the rivet body is covered with nylon cap so it is useful when you need waterproof function.

* Consult with us about special specification



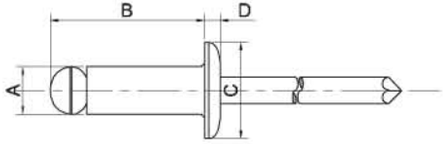
Classified Code	BODY		MANDREL		CAP
	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL
RCDA5T	A5052	Polished	Steel	Zinc Plated	Nylon

Part Name		Fastener Size	Grip Range (mm)		Hole Size (mm)		Dimension (mm)						Strength (N)		Note
Classified Code	Size No.		MIN	MAX	MIN	MAX	A MIN	A MAX	B MAX	C MIN	C MAX	D MAX	Tensile	Shear	
RCDA5T	05021P	Φ 4.0	4.70	10.70	4.90	5.00	4.70	4.90	20.0	11.00	12.00	3.0	1600	1100	

5. PEEL RIVET

The specially designed mandrel splits the rivet body 4 ways. It's good for soft materials and also good when the space under the rivet is not enough.

* Consult with us about special specification



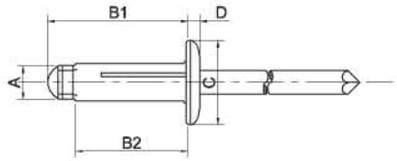
Classified Code	BODY		MANDREL	
	MATERIAL	FINISH	MATERIAL	FINISH
RPDA5T	A5154	Polished	Steel	Zinc Plated

Part Name		Fastener Size	Grip Range (mm)		Hole Size (mm)		Dimension (mm)						Strength (N)		Note
Classified Code	Size No.		MIN	MAX	MIN	MAX	A MIN	A MAX	B MAX	C MIN	C MAX	D MAX	Tensile	Shear	
RPDA5T	05011P	Φ 4.0	1.20	4.50	4.20	4.20	3.98	4.18	11.8	7.80	8.20	1.6	1260	1460	
	06013P	Φ 4.8	1.60	4.50	5.00	5.00	4.78	4.98	13.0	9.10	10.10	1.8	2050	2250	

6. FOLDING TYPE

When you fastening, the body of folding type rivet is devided to three ways and then folded. This type rivet is used to soft materials as like plastic.

* Consult with us about special specification
* Large Head & Black Head Type is avaiable on request.



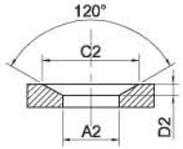
Classified Code	BODY		MANDREL	
	MATERIAL	FINISH	MATERIAL	FINISH
RTLA5A	A5052	Natural	Alumium	Natural

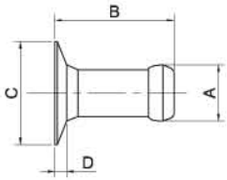
Part Name		Fastener Size	Grip Range (mm)		Hole Size (mm)		Dimension (mm)							Strength (N)		Note
Classified Code	Size No.		MIN	MAX	MIN	MAX	A MIN	A MAX	B1 MAX	B2 MAX	C MIN	C MAX	D ±0.2	Tensile	Shear	
RTLA5A	05013N	Φ 4.0	0.50	3.00	4.20	4.50	3.90	4.20	17.0	12.7	7.6	8.4	1.5	1000	800	
	05018N		0.50	6.40					22.0	18.0						
	05022N		5.60	9.60					25.6	21.6						
	05025N		8.80	12.80					29.2	25.2						
	06016N	Φ 4.8	0.50	4.00	5.00	5.30	4.70	5.00	20.3	15.8	9.2	10.2	1.7	1450	1100	
	06018N		0.50	6.40					22.7	18.4						
	06020N		4.60	8.60					24.6	20.5						
	06021N		5.60	9.60					26.2	21.2						
	06025N		8.80	12.80					29.1	25.0						
	06029N		10.40	14.40					32.6	28.5						

7. SPEED TYPE_1

Our speed rivet which has a bulb-tail is foreshortened and expanded radially during installation. This bulb-tail gives you high vibration resistance and nice hole-fit.
We supply speed rivets with many different materials and finishes, so you have various options in accordance with your needs.
Speed rivets are podded in a paper pod that you can install 20~70 rivets at one easy loading.

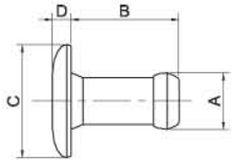
* Consult with us about special specification





Classified Code	BODY	
	MATERIAL	FINISH
RSCA5N	A5056	Polished & Lubricated
RSCSTN	Steel	Zinc plated Cr^{3+}

Part Name		Fastener Size	Grip Range (mm)		Hole Size (mm)				Dimension (mm)					Strength (N)				Note
Classified Code	Size No.				A2		D2		A	B	C		D	Tensile		Shear		
			MIN	MAX	MIN	MAX	MIN	MAX	MAX	MAX	MIN	MAX	±0.2	RSCA5N	RSCSTN	RSCA5N	RSCSTN	
RSCA5N RSCSTN	04048■	Φ 3.2	1.60	2.70	3.26 (0.81)	3.34 (0.90)	0.78	0.81	3.16 (3.15)	4.8	5.1	5.8 (3.15)	0.76 (0.89)	1160	1500	670	900	* The values in the (__) are applicable only to RSCA5N types.
	04058■		2.60	3.80						5.8								
	04068■		3.60	4.80						6.8								
	04078■		4.60	5.80						7.8								
	04088■		5.60	6.80						8.8								
	05052■	Φ 4.0	1.60	2.90	3.97	4.04	1.04	1.07	3.90	5.2	6.1	7.0 (6.9)	1.02	1620	2800	1090	1600	* The values in the (__) are applicable only to RSCA5N types.
	05057■		2.20	3.40						5.7								
	05062■		2.70	3.90						6.2								
	05072■		3.70	4.90						7.2								
	05082■		4.70	5.90						8.2								
	05092■		5.70	6.90						9.2								



Classified Code	BODY	
	MATERIAL	FINISH
RSDA5N	A5056	Polished & Lubricated
RSDSTN	Steel	Zinc plated Cr $^{3+}$
RSDSSN	SUS	Natural
RSDBRN	Brass	Brightened/Eletro tin plated

Part Name		Fastener Size	Grip Range (mm)		Hole Size (mm)		Dimension (mm)					Strength (N)								Note
Classified Code	Size No.		MIN	MAX	MIN	MAX	A MAX	B MAX	C MIN	C MAX	D ±0.2	Tensile RSDA5P	Tensile RSDSTZ	Tensile RSDBRN	Tensile RSDSSP	Shear RSDA5P	Shear RSDSTZ	Shear RSDBRN	Shear RSDSSP	
RSDA5N RSDBRN	03040■	Φ 2.4	1.20	2.40	2.36	2.44	2.35	4.0	3.8	4.2	0.9	400	_	800	_	250	_	400	_	
	03050■		2.20	3.40				5.0												
	03060■		3.20	4.40				6.0												
	03070■		4.20	5.40				7.0												
	03080■		5.20	6.40				8.0												
	03090■		6.20	7.50				9.0												
RSDA5N RSDSTN RSDSSN RSDBRN	04043■	Φ 3.2	1.20	2.40	3.26 (3.27)	3.34	3.15	4.3	5.9	6.4	1.0	1160	1500	1900	2000	670	900	1100	1300	* The values in the (__) are applicable only to RSDSSN types.
	04053■		2.20	3.40				5.3												
	04063■		3.20	4.40				6.3												
	04073■		4.20	5.40				7.3												
	04083■		5.20	6.40				8.3												
	04093■		6.20	7.50				9.3												
RSDA5P RSDSTZ RSDSSN	05049■	Φ 4.0	1.60	2.90	3.97	4.04	3.90	4.9	7.5	8.0	1.0	1620	2800	_	3500	1090	1600	_	2400	
	05054■		2.20	3.40				5.4												
	05059■		2.70	3.90				5.9												
	05069■		3.70	4.90				6.9												
	05079■		4.70	5.90				7.9												
	05089■		5.70	6.90				8.9												
	06054■	Φ 4.8	1.70	3.30	4.85	4.93	4.77	5.4	9.0	9.6	1.2	2250	3700	_	5100	1490	2200	_	3500	
	06061■		2.10	3.90				6.1												
	06073■		3.70	5.20				7.3												
	06086■		5.00	6.40				8.6												
	06099■		6.30	7.70				9.9												
	06111■		7.50	9.00				11.1												

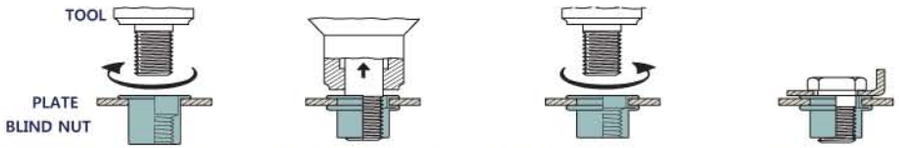
▣ HARDWARE _ BLIND TYPE NUT

A blind nut makes one direction work possible, so you can use it in closed space. As like blind rivets, blind nut also doesn't require skilled technique so it brings higher productivity and cost efficiency. It is ideal for vibrating place instead of bolt & nut.

< Advantages of blind Nuts >

1. They can be set from one side, where the rear of the material and the inside of the material are inaccessible
2. They can be easily set in thin materials
3. the material will not be damaged
4. The time consuming tapping of a thread or welding of a nut is not required
5. Even novice can work easily with easy process of fastening
6. You can save the whole operational costs with fast work.

< Fastening Process of Blind Type Nut >



1. Place a blind nut onto the material after installing the nut on the tool.
2. Put the blind nut to the material closely and pull the trigger of the tool.
3. The drive screw of the tool reverses and is disengaged from the thread leaving the insert securely in position.
4. Finished. Fasten other materials to the blind nut.

< APPLICATIONS >

Blind nuts are applied to wide ranges of applications. They'll make your work process efficient and increase productivity.

- Automotive: rear mirrors, spoilers, dashboard, hinges, caravans, repairs
- Building industry: elevators, kitchens, swimming pools, bridges
- Air-conditioning
- Ventilation systems
- Shipbuilding industry
- Appliances (domestic)
- Furniture
- Window-frames

1. Standard Blind Nut

Stand type blind nuts make you installing a nut on one side at a reasonable price. We also have knurling body type which protecting from turning. These nuts have two types of flange.

SIZE : M3~M12
MATERIAL : AL, STEEL, SUS

2. Hexa Type Blind Nut

Hexa-Type blind nuts have hexagonal body shape. This type improves torque-to-torque in metallic sheets by up to 200% compared to plain body inserts. It is used to hexagonal shape halls and has two types of flange.

SIZE : M4~M8
MATERIAL : STEEL, AL

3. Tetra Type Blind Nut

Tetra-Type blind nuts have tetragonal body shape, so they have maximum turning resistance. This type improves torque-to-torque in metallic sheets by up to 350% compared to plain body inserts.

SIZE : M4~M8
MATERIAL : STEEL

4. Sealed Nut

The bottom of the nut is closed, so this nut is ideal for using with sealed backsides and for protecting the interior of the material hole from the bolt point.

SIZE : M3~M10
MATERIAL : AL, STEEL

5. Well Nut

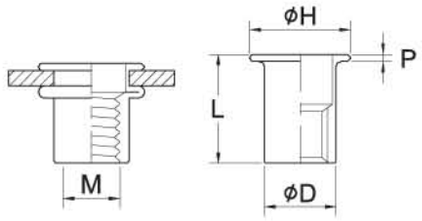
A well nut is a type of fastener used to blindly fasten a piece (much like a molly bolt) and to seal the bolt hole. It consists of a flanged neoprene bushing with a nut embedded in the non-flanged end. Well nuts are useful for sealing holes and/or isolating vibrations.

SIZE : M3~M8
MATERIAL : Chloroprene (outside), Brass (inside)

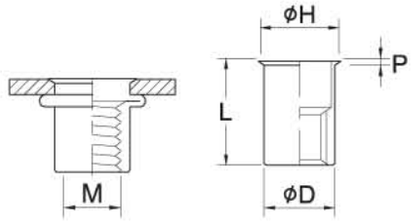
1. STANDARD BLIND NUT

Stand type blind nuts make you installing a nut on one side at a reasonable price. We also have knurling body type which protecting from turning. These nuts have two types of flange.

* Consult with us about special specification



*NBL■■P Type : Plate Flange



*NBL■■F Type : Small Flange

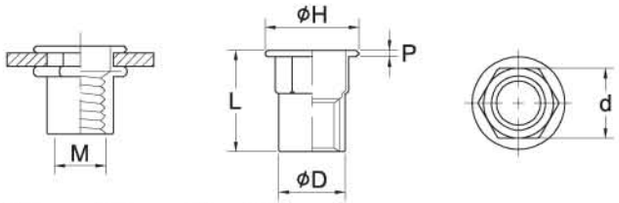
Classified Code	BODY	
	MATERIAL	FINISH
NBLST■	Steel	Zinc Plated
NBLAL■	Aluminum	Natural

Part Name		Fastener Size	HOLE SIZE	Grip Range (mm)		Dimension (mm)							Strength			
Classified Code	Size No.					L		D	H		P		Screw Torque (N·m)		Screw Tensile (kN)	
				MIN	MAX	NBL■■P	NBL■■F		NBL■■P	NBL■■F	NBL■■P	NBL■■F	NBLST■	NBLAL■	NBLST■	NBLAL■
NBLSTF NBLSTP NBLALF NBLALP	03015C	M3 X 0.5	5.1	0.5	1.5	8.8	8.5	5.0	8.3	6.0	0.8	0.5	3.4	1.9	5.4	2.9
	03025C			1.5	2.5	9.8	9.5									
	04015C	M4 X 0.7	6.1	0.5	1.5	10.3	10.0	6.0	9.3	7.0	0.8	0.5	4.4	3.4	7.4	4.9
	04025C			1.5	2.5	11.3	11.0									
	04035C			2.5	3.5	12.3	12.0									
	04045C			3.5	4.5	13.3	13.0									
	05015C	M5 X 0.8	7.1	0.5	1.5	11.5	11.0	7.0	10.3	8.0	1.0	0.5	10.8	6.9	10.8	6.7
	05025C			1.5	2.5	12.5	12.0									
	05035C			2.5	3.5	13.5	13.0									
	05045C			3.5	4.5	14.5	14.0									
	06025C	M6 X 1.0	9.1	0.5	2.5	15.0	14.0	9.0	12.3	10.0	1.5	0.5	16.7	13.7	17.7	10.8
	06040C			2.5	4.0	16.5	15.5									
	08025C	M8 X 1.25	11.1	1.0	2.5	16.5	15.5	11.0	14.3	12.0	1.5	0.5	27.5	25.5	25.5	15.7
	08040C			2.5	4.0	18.0	17.0									
	10025C	M10 X 1.5	13.1	1.0	2.5	17.0	16.0	13.0	16.3	14.0	1.5	0.5	58.8	44.1	29.4	18.6
	10040C			2.5	4.0	18.5	17.5									
	10060C			4.0	6.0	20.5	-									
	12040C	M12 X 1.75	16.1	1.6	4.0	20.2	-	15.9	21.3	-	1.7	-	100	_	34.3	_
	12060C			4.0	6.0	22.2	-									

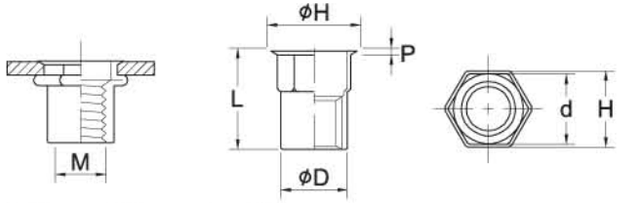
2. HEXA TYPE BLIND NUT

Hexa-Type blind nuts have hexagonal body shape. This type improves torque-to-torque in metallic sheets by up to 200% compared to plain body inserts. It is used to hexagonal shape halls and has two types of flange.

* Consult with us about special specification

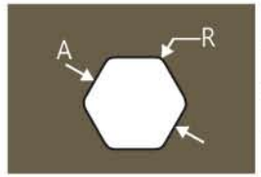


*NBL■■P Type : Plate Flange



*NBL■■F Type : Small Flange

< Hole Shape >



Size	Round
M4	R 0.4 Max
M5	R 0.5 Max
M6, M8	R 1.5 Max

Classified Code	BODY	
	MATERIAL	FINISH
NBLST■	Steel	Zinc Plated
NBLAL■	Aluminum	Natural

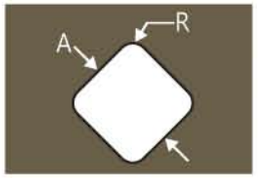
Part Name		Fastener Size	HOLE SIZE	Grip Range (mm)		Dimension (mm)								Strength			
Classified Code	Size No.			MIN	MAX	L		D	d	H		P		Screw Torque (N·m)		Screw Tensile (kN)	
						NBL■■P	NBL■■F			NBL■■P	NBL■■F	NBL■■P	NBL■■F	NBLST■	NBLAL■	NBLST■	NBLAL■
NBLSTP NBLSTF NBLALP NBLALF	04015H	M4 X 0.7	6.1	0.5	1.5	10.3	10.0	6.4	6.0	9.3	7.0	0.8	0.5	4.4	3.4	7.4	4.9
	04025H			1.5	2.5	11.3	11.0										
	04035H			2.5	3.5	12.3	12.0										
	05015H	M5 X 0.8	7.1	0.5	1.5	11.5	11.0	7.5	7.0	10.3	8.0	1.0	0.5	10.8	6.9	10.8	6.7
	05025H			1.5	2.5	12.5	12.0										
	05035H			2.5	3.5	13.5	13.0										
	06025H	M6 X 1.0	9.1	0.5	2.5	15.0	14.0	9.6	9.0	12.3	10.0	1.5	0.5	16.7	13.7	17.7	10.8
	06040H			2.5	4.0	16.5	15.5										
	08025H	M8 X 1.25	11.1	0.5	2.5	16.5	15.5	11.9	11.0	14.3	12.0	1.5	0.5	27.5	25.5	25.5	15.7
	08040H			2.5	4.0	18.0	17.0										

3. TETRA TYPE BLIND NUT

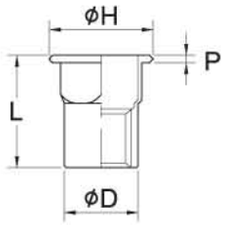
Tetra-Type blind nuts have tetragonal body shape, so they have maximum turning resistance. This type improves torque-to-torque in metallic sheets by up to 350% compared to plain body inserts.

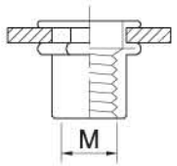
* Consult with us about special specification

< Hole Shape >



Size	Round
M4	R 0.7 Max
M5	R 1.0 Max
M6, M8	R 1.5 Max





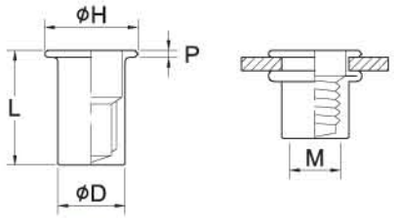
Classified Code	BODY	
	MATERIAL	FINISH
NBLSTP	Steel	Zinc Plated

Part Name		Fastener Size	HOLE SIZE	Grip Range (mm)		Dimension (mm)				Strength	
Classified Code	Size No.			MIN	MAX	L	D	H	P	Screw Torque (N·m)	Screw Tensile (kN)
NBLSTP	04015T	M4 X 0.7	6.2	0.5	1.5	10.0	7.2	9.5	0.5	4.4	7.4
	04025T			1.5	2.5	11.0					
	04035T			2.5	3.5	12.0					
	05015T	M5 X 0.8	7.2	0.5	1.5	11.0	8.4	10.5	0.5	10.8	10.8
	05025T			1.5	2.5	12.0					
	05035T			2.5	3.5	13.0					
	06025T	M6 X 1.0	9.2	0.5	2.5	14.3	10.7	14.0	0.8	16.7	17.7
	06040T			2.5	4.0	15.8					
	08040T	M8 X 1.25	11.2	2.5	4.0	17.5	12.7	17.0	1.0	27.5	25.5

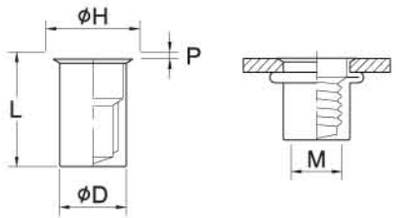
4. SEALED TYPE BLIND NUT

The bottom of the nut is closed, making it ideal in applications where the backside of the application needs to be sealed. Selaed type nut also can be installed into thin sheet metal, extrusions and tubing from one side of the work piece using light hand held tools. They can be installed either before or after the finish is applied to the parent material.

* Consult with us about special specification



*NLD■■P Type : Plate Flange



*NLD■■F Type : Small Flange

Classified Code	BODY	
	MATERIAL	FINISH
NLDST■	Steel	Zinc Plated
NLDAL■	Aluminum	Natural

Part Name		Fastener Size	HOLE SIZE	Grip Range (mm)		Dimension (mm)							Strength			
Classified Code	Size No.			MIN	MAX	L		D	H		P		Screw Torque (N·m)		Screw Tensile (kN)	
						NLD■■P	NLD■■F		NLD■■P	NLD■■F	NLD■■P	NLD■■F	NLDST■	NLDAL■	NLDST■	NLDAL■
NLDSTF NLDSTP NLDALF NLDALP	03015C	M3 X 0.5	5.1	0.5	1.5	13.2	14.0	5.0	8.0	6.0	0.8	0.5	3.4	1.9	5.4	2.9
	04015C	M4 X 0.7	6.1	0.5	1.5	15.3	15.0	6.0	9.0	7.0	0.8	0.5	4.4	3.4	7.4	4.9
	04025C			1.5	2.5	16.3	16.0									
	04035C			2.5	3.5	17.3	17.0									
	05015C	M5 X 0.8	7.1	0.5	1.5	17.0	16.5	7.0	10.0	8.0	1.0	0.5	10.8	6.6	10.8	6.7
	05025C			1.5	2.5	18.0	17.5									
	05035C			2.5	3.5	19.0	18.5									
	06025C	M6 X 1.0	9.1	0.5	2.5	21.5	20.5	9.0	12.0	10.0	1.5	0.5	16.7	13.7	17.7	10.8
	06040C			2.5	4.0	23.0	22.0									
	08025C	M8 X 1.25	11.1	0.5	2.5	24.0	23.0	11.0	14.0	12.0	1.5	0.5	27.5	25.5	25.5	15.7
	08040C			2.5	4.0	25.5	24.5									
	10025C	M10 X 1.5	13.1	1.0	2.5	25.5	24.5	13.0	16.0	14.0	1.5	0.5	58.8	44.1	29.4	18.6
	10040C			2.5	4.0	27.0	26.0									

5. WELL NUT

A well nut is a type of fastener used to blindly fasten a piece (much like a molly bolt) and to seal the bolt hole. It consists of a flanged neoprene bushing with a nut embedded in the non-flanged end. Well nuts are useful for sealing holes and/or isolating vibrations.

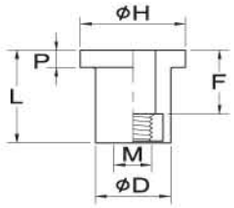
* Consult with us about special specification

< Features of blind Well Nuts >

1. Effectiveness of vibration reduction
2. Sealing effects of liquid and gas
3. Outstanding electric insulation
4. Easy work as like riveting

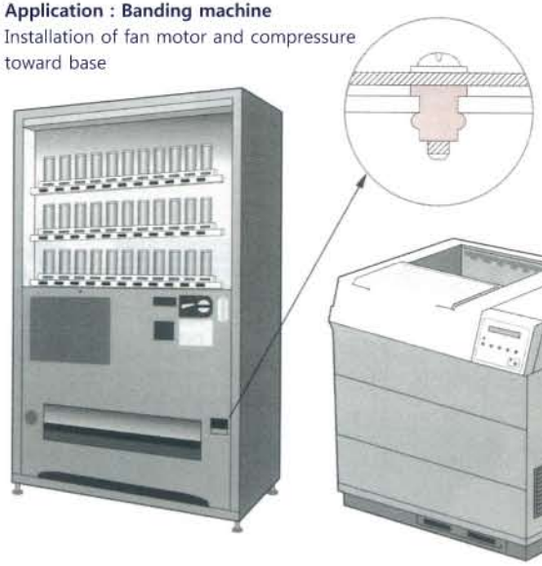
*NWE■■L Type : Large Flange, NWE■■P Type : Plate Flange

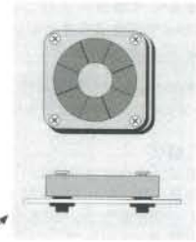
Classified Code	MATERIAL		
	BODY	NUT	HARDNESS
NWENR■	Neoprene Rubber	BRASS	70
NWEN5■	Neoprene Rubber	BRASS	50
NWEEP■	EPDM	BRASS	50~70



< APPLICATIONS >

Application : Banding machine
Installation of fan motor and compressure toward base





Application : Laser printer
Fastening a fan unit in the laser printer

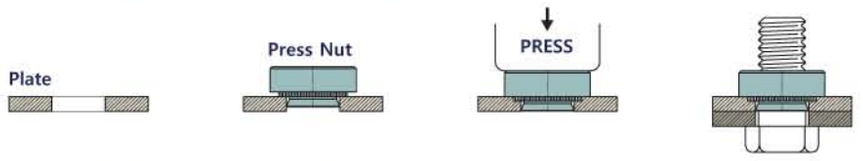
Part Name	Fastener Size	HOLE SIZE +0.3 -0	Grip Range (mm)		Dimension (mm)					Strength (N)			
			MIN	MAX	D	L	H	P	F	Tensile		Shear	Compression
										Permitted	Failure	Permitted	Permitted
NWENRL-03030C	M3 X 0.5	6.6	0.5	3.0	6.5	13.0	10.0	3.0	9.0	20	390	20	39
NWENRP-04040C	M4 X 0.7	8.0	0.5	4.0	7.9	12.2	11.0	1.2	7.7	34	665	34	69
NWENRL-04040C						14.5	12.0	3.5	10.0	34	625	34	69
NWEN5L-04040C						14.5	12.0	3.5	10.0	29	380	29	49
NWENRP-05050C	M5 X 0.8	9.6	0.5	5.0	9.5	14.2	12.7	1.2	9.0	44	610	44	78
NWENRL-05050C						17.0	14.0	4.0	11.8	44	530	44	78
NWENRP-06030C	M4 X 0.7	12.8	0.5	3.0	12.7	16.0	16.0	1.3	9.8	59	1370	59	110
NWENRL-06050C		1.28	0.5	5.0	12.7	21.0	17.8	4.5	14.8	59	980	59	110
NWEEPL-05060C						21.0	17.8	4.5	14.8	59	880	59	110

▣ HARDWARE _ PRESS TYPE NUT & INSERT TYPE NUT

< Features of Press Type Nut >

1. It can be installed on the thin plates with press-in method
2. It can be installed not only steel but also aluminum, stainless steel materials
3. You can get high torque with knurling under the nut
4. The opposite side of the plate is very flat after pressing the nut
5. It can be used after surface treatment
6. The air powered compressure and hydraulic compressure can be used

< Fastening Process of Press Type Nut >



1. A Plate with a hole
2. Put a press nut on the plate
3. Push the press nut with the press machine
4. Fastening a bolt with the press nut

PRESS TYPE NUT

1. CLINCH NUT

Clinch nut is pressed-in on the materials by press machine. We can get high turning resistance torque by precise machining. It is customized products for multipurpose. Contact us about specifications.

SIZE : M4~M12
MATERIAL : STEEL

2. SPACER

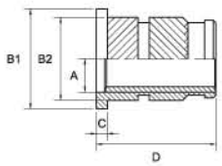
Spacer is a device to stabilize and support the frame base of display structure. It's used to keep space between two plates. It is pressed-in on the materials by press machine.

SIZE : M3~M4
MATERIAL : STEEL, AL

< Features of Insert Type Nut >

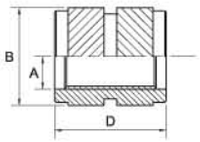
Insert nut is designed to provide strong wear resistant threads in thermoplastic Materials. The unique opposing herringbone knurl design provides exceptional resistance to torque loads. It is suitable for all molded components made from thermoplastics.

Type 1



A	Internal thread
B1	Head diameter
B2	External diameter
C	Head thickness
D	Insert length

Type 2



A	Internal thread
B	External diameter
D	Insert length

INSERT TYPE NUT

1. INSERT NUT

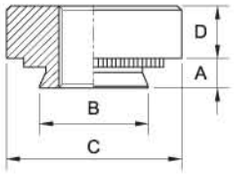
It is customized products for multipurpose. Contact us about specifications.

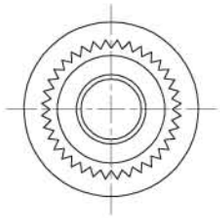
SIZE : M4~M8
MATERIAL : BRASS

1. CLINCH NUT

Clinch nut is pressed-in on the materials by press machine. We can get high turning resistance torque by precise machining. It is customized products for multipurpose.

*Contact us about specifications.





Classified Code	BODY	
	MATERIAL	FINISH
NNCSTN	Steel	Zinc-plated

Part Name		Thread Size	HOLE SIZE 0.00~ +0.07	Min. Sheet Thickness (mm)	Dimension (mm)				
Classified Code	Size No.				A MAX	B MAX	C ±0.1	D ±0.1	S
NNCSTN	04010C	M4	5.4	1.0	1.4	5.38	7.9	2.0	6.7
	04014C			1.4					
	05010C	M5	6.4	1.0	1.0	6.38	8.7	2.0	7.0
	05014C			1.4	1.4				
	06014C	M6	8.8	1.4	1.4	8.72	11.05	4.4	8.7
	06023C			2.3	2.3				
	08014C	M8	10.5	1.4	1.4	10.44	12.65	5.5	9.5
	08023C			2.3	2.3				
	10023C	M10	14.0	2.3	2.3	13.95	17.35	7.5	11.0
	10032C			3.2	3.2				
	12032C	M12	17.0	3.2	3.2	16.90	20.55	8.5	16.0

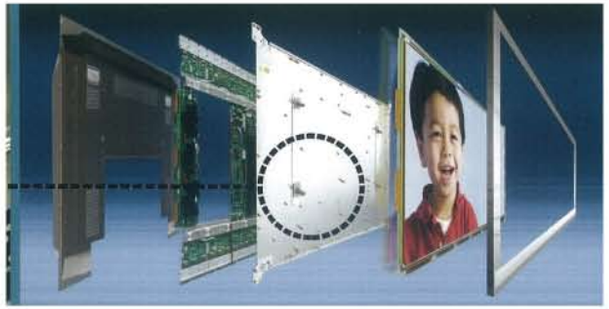
* S : Minimum distance from center line hole to sheet edge

2. SPACER

Spacer is a device to stabilize and support the frame base of display structure. It's used to keep space between two plates. It is pressed-in on the materials by press machine.

*To get the right parts for your product, we should check the material, uses, thickness, hole size of the application.
Please contact our tech-sales team after referring to products manual and home page.
Home page : www.sirivet.com
E-mail : sirivet@sirivet.com

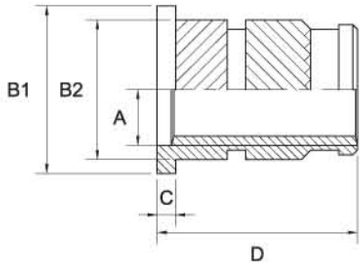
< APPLICATION >



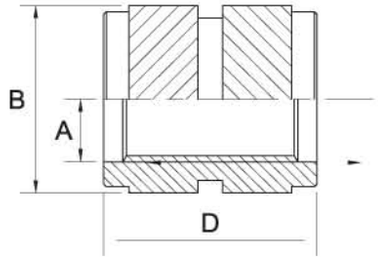
1. INSERT NUT

Insert nut is designed to provide strong wear resistant threads in thermoplastic Materials. The unique opposing herringbone knurl design provides exceptional resistance to torque loads. It is suitable for all molded components made from thermoplastics.

*Contact us about specifications.



A	Internal thread
B1	Head diameter
B2	External diameter
C	Head thickness
D	Insert length



A	Internal thread
B	External diameter
D	Insert length

Available designs :

-Standard lengths.
-Short lengths.
-Contact head for electrical
-Applications or for simultaneous attachement of serveral components.
-Stud with and without contact flange,

▣ HARDWARE _ BOLT & SCREW

We are dealing with many kinds of bolts and screws used to industrial field not only general type but also special types. We provide excellent mechanical, assembly ergonomic characreristics surpassed by no other technology.

1. PRESS TYPE BOLT

Press type bolt is called as threaded rod or stud bolt, and it is fastened by press-in method. It doesn't require post processing different from welding. The flange part of the bolt is inserted to the material so you can get high resistance torque to turn.

Size: M3, M4, M6
Material : AL, STEEL

2. TAPTITE SCREW

TAPTITE SCREW therad forming screws were developed to create strong mechanical joints with excellent thread engagement into untapped thin sheets, while providing the "LOWER IN-PLACE COST SAVINGS"The cross section of the screw body is nearing a triangle and fasting can be made almost concurrently with internal thread procession.

Size: M2~M12
Material : AL, STEEL

3. DELTA PT SCREW

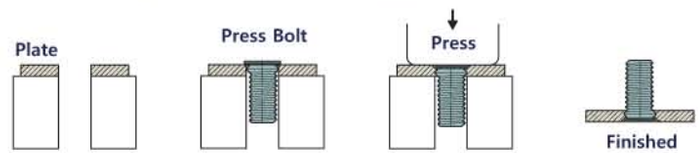
New designed flank geometry for a better deformation of rhe plastic material during the fastening process. The service life of the joints substantially increased, both in case of static and dynamic stress. Increased head diameter provides better load distribution on the contact area. Torsinal and tensile strength are improved up to 50%.

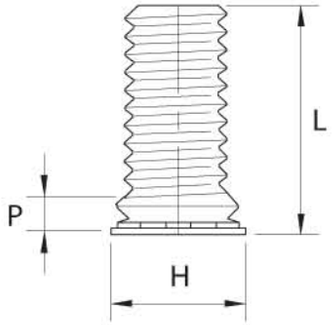
Size: M2.5~M7
Material : AL, STEEL

1. PRESS TYPE BOLT

Press type bolt is called as threaded rod or stud bolt, and it is fastened by press-in method. It doesn't require post processing different from welding. The flange part of the bolt is inserted to the material so you can get high resistance torque to turn.

< Fastening Process of Press Type Bolt >





Classified Code	BODY	
	MATERIAL	FINISH
BPRSTN	Steel	nickel-plated

Part Name		Fastener Size	HOLE SIZE +0.3 -0	Grip Range (mm) MIN	Dimention (mm)			Strength			
Classified Code	Size No.				L	H	P	Rcommended Pressure (kN)		Push-out (Kn)	Torque (Nm)
								Steel	Aluminum		
BPRSTN	03010K	M3 X 0.5	3.0	1.0	10.0	4.5	2.1	16	12	1.0	2.0
	04015K	M4 X 0.7	4.0	1.0	15.0	6.0	2.4	27	20	1.2	4.0
	06018K	M6 X 1.0	6.0	1.5	18.0	8.2	3.2	43	25	2.7	10.0

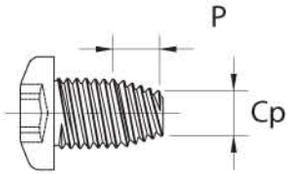
*To get the right parts for your product, we should check the material, uses, thickness, hole size of the application,
Please contact our tech-sales team after referring to products manual and home page.

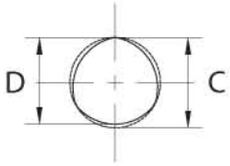
2. TAPTITE SCREW

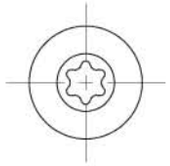
TAPTITE SCREW therad forming screws were developed to create strong mechanical joints with excellent thread engagement into untapped thin sheets, while providing the "LOWER IN-PLACE COST SAVINGS" associated with specially forming screws. TAPTITE screws result in cost effective joint with increased failure torque and resistance to stripping, when compared to other fastener types and assemblies.

< Features of Taptite Screw >

1. Superior in prevention unscrewing
2. Low torque but quick insertion
3. Functions well in repeated use
4. Excellent in mechanical function
5. No embeded in plastic material
6. Can bring about total cost down







Classified Code	BODY	
	MATERIAL	FINISH
STPSTD	Steel	Zinc plated Cr^{3+}
STPALD	Aluminum	Zinc plated Cr^{3+}

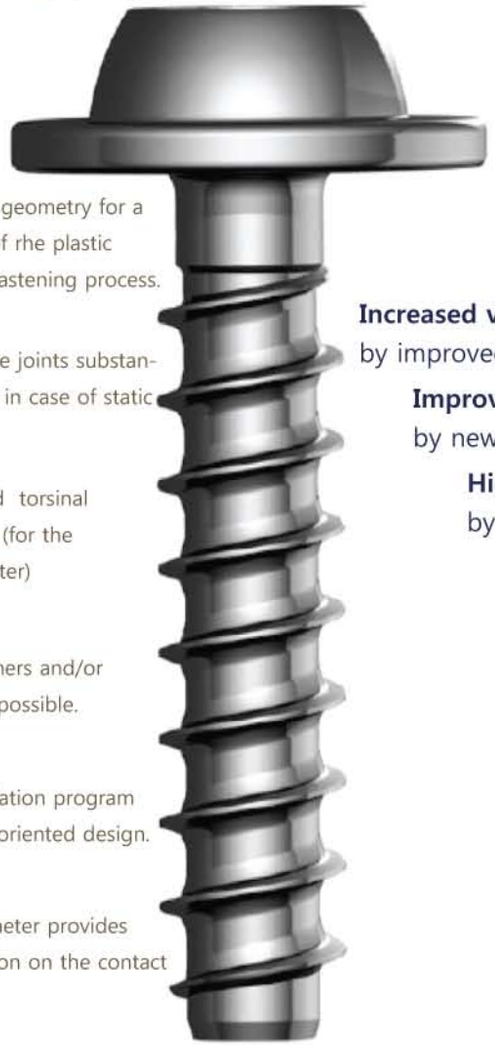
Part Name		Fastener Size	HOLE SIZE (mm)				Plate Thickness (mm)	Dimension (mm)			
Classified Code	Size No.		STPSTD		STPALD			BODY		Point	
			MIN	MAX	MIN	MAX		C	D	Cp(Max)	P(Ref)
STPSTD STPALD	020■■Z	M2.0 X 0.40	1.48	1.61	1.35	1.48	0.70 ~1.60	2.00	1.96	1.00	1.80
	025■■Z	M2.5 X 0.45	1.92	2.06	1.77	1.92		2.50	2.45	1.30	2.03
	030■■Z	M3.0 X 0.50	2.35	2.51	2.19	2.35		3.00	2.95	1.70	2.25
	035■■Z	M3.5 X 0.60	2.27	2.92	2.53	2.27		3.50	3.44	1.90	2.70
	040■■Z	M4.0 X 0.70	3.09	3.32	2.86	3.09		4.00	3.93	2.20	3.15
	050■■Z	M5.0 X 0.80	3.96	4.22	3.70	3.93		5.00	4.92	2.90	3.60
	060■■Z	M6.0 X 1.00	4.70	5.03	4.38	4.70		6.00	5.90	3.40	4.50

*To get the right parts for your product, we should check the material, uses, thickness, hole size of the application,
Please contact our tech-sales team after referring to products manual and home page.

3. DELTA PT SCREW

DELTA PT offers the well-known benefits of the PT screw
- Minimum radial tension
- Optimum pitch, high non-reversibility of the thread
- Optimum material flow

Calculated for improved performance!



·New designed flank geometry for a better deformation of rhe plastic material during the fastening process.

·The service life of the joints substantially increased, both in case of static and dynamic stress.

·Up to 50% improved torsinal and tensile strength. (for the same nominal diameter)

·Use of shorter fasteners and/or smaller diameters is possible.

·The DELTA PT calculation program allows a clamp load oriented design.

·Increased head diameter provides better load distribution on the contact area.

< Design guidelines >

The DELTA PT screw without cutting edge is suitable for assembly in many thermosets. To establish if the cutting notch is required the thoughness and impact strength of the thermoset material should be established. The initial evaluation can established. The initial evaluation can establish if the cutting edge is necessary.
Assembly test on original components will give final performance confirmation.

The germetry of the boss design should be in generally as shown on the right. It is important that the filling of it is homogeny, especially in conjunction with long fibre materials. Extra fins on the boss can be of benefit.

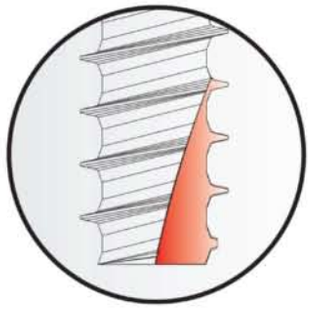
Increased vibrational safety
by improved pitch

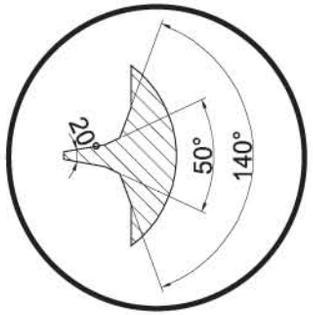
Improved dynamic safety
by new shear area

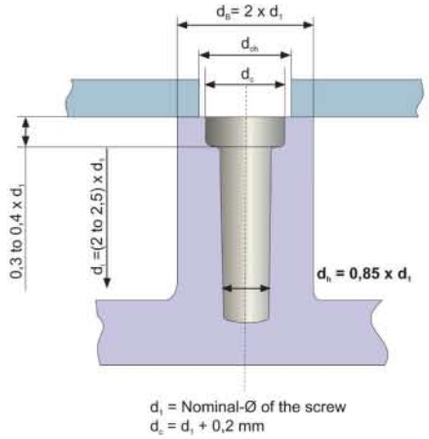
High clamp load at smaller contact pressure,
by increased flank engagement

< Dimensions >

The possible dimension of the DELTA PT screw with cutting edge is limited due to manufacturing technique.
Current lengths and diameters that are available are listed in the matrix to the right. Parts are produced with the standard DELTA PT styles.







DELTA PT® screw S	25	30	35	40	45	50	60
d1 [mm] / length [mm] L	2,5	3,0	3,5	4,0	4,5	5,0	6,0
7 ± 0,45							
8 ± 0,45							
9 ± 0,45							
10 ± 0,45							
11 ± 0,55							
12 ± 0,55							
14 ± 0,55							
15 ± 0,55							
16 ± 0,55							
18 ± 0,55							
20 ± 0,65							
21 ± 0,65							
22 ± 0,65							
24 ± 0,65							
25 ± 0,65							
30 ± 0,65							
35 ± 0,80							
40 ± 0,80							
45 ± 0,80							
50 ± 0,80							
60 ± 0,95							

head design acc. WN5412/WN5452
head design acc. WN5411, WN5451, WN5453, WN5454

Special geometries upon request.
Full thread only to 50mm length possible.

▣ SI HARDWARE _ OTHERS

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SI Corporation manufactures and distributes pins, shaft rods, magnetics, special type bolts and nuts, special type rivets as well. Some products can be developed on the basis of standard specifi-cation, feel free contact us.

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