

SHEREX[®] BY PEM[®] RIVET NUT CATALOG



Metric Body Rivet Nuts
Sherex Proprietary Rivet Nuts
Standard Rivet Nuts
Rivet Nut Tooling and Automation

Index

About Us
Rivet Nut Introduction

Metric Body Rivet Nuts

Product Overview - [Page 6](#)

Full Hex Body - Metric Threads

CFLM
Large flange - [Page 8](#)



CFKM
Small flange - [Page 9](#)



Half Hex Body - Metric Threads

CHLM
Large flange - [Page 10](#)



CHKM
Small flange - [Page 10](#)



Round Body - Metric Threads

CKLM
Large flange, knurled - [Page 11](#)



CKKM
Small flange, knurled - [Page 12](#)



COLM
Large flange, smooth body - [Page 13](#)



CKCM
Countersunk, knurled - [Page 14](#)



COCM
Countersunk, smooth - [Page 15](#)



Metric Thread - Inch Hole Sizes

COKI
Small flange, smooth - [Page 16](#)



CHKI
Half hex, small flange - [Page 16](#)



Sherex Proprietary Rivet Nuts

Product Line Overview - [Page 17](#)

Inch Body - Inch and Metric Threads

HHS
Full hex body, high strength - [Pages 18 & 19](#)



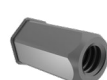
RHS
Round body, high strength - [Pages 20 & 21](#)



FHL
Full hex body, large flange - [Page 22](#)



FHK
Full hex body, small flange - [Page 23](#)



Optisert®
Round body, knurled, wedges - [Pages 24 & 25](#)



RIV-FLOAT®/RIV-FLOAT® Short
Floating nut, self-aligning - [Pages 26 & 27](#)



LRGH
Large size, full hex - [Page 28](#)



LRGR
Large size, round body - [Page 28](#)



Standard Rivet Nut Products

Standard Catalog Products - Inch and Metric Threads

CAL
Knurled, round body, large flange - [Page 29](#)



CAK
Knurled, round body, small flange - [Page 30](#)



CAH
Half hex body, large flange - [Page 31](#)



CPB
Prebullbed, slotted body,
large flange - [Page 32](#)



CPN
Straight shank, slotted body,
large flange - [Page 33](#)



Index

Specialty Fastener Solutions

Rivet Nut Studs

Rivet nut and screw combination - [Page 34](#)



Specialty Fasteners

Application specific rivet nuts - [Page 35 & 36](#)



Fastener Installation Systems

Product Showcase

[Page 37](#)

Hand Tool Calibration Unit

Measures pulling force for spin-spin and spin-pull tools

[Page 38](#)



FLEX-5

Hydro-pneumatic tool - installs M3-M10 rivet nuts

[Page 39 & 40](#)



RIV943

Hydro-pneumatic tool - installs M4-M12 rivet nuts

[Page 41](#)



FLEX-18

Hydro-pneumatic tool - installs M8-M16 rivet nuts

[Page 42](#)



Automation Systems from MDS

Stationary and robotic tools for high-volume installations

[Page 43](#)



SSG Tools (Spin-Spin)

Pneumatic rivet nut tools

[Page 44](#)



Manual Hand Tools

Hand tools for low volume installations

[Page 45](#)

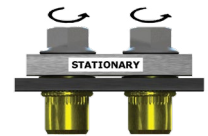


Technical Information

Testing Methods

Pull-out, spin-out, torque-out

[Page 46](#)



Rivet Nut Coatings

Variety of electroplated coatings to increase corrosion resistance

[Page 47](#)



Rivet Nut Sealants

Ideal solution when a leak proof joint is required

[Page 48](#)



Mechanical Lock & Locsert®

Resists vibrational loosening

[Page 49](#)





Company

Sherex Industries was founded in 1979 in Buffalo, NY primarily serving the Automotive and Fluid Power markets. In 2004, the rivet nut division was spun off and became Sherex Fastening Solutions. Throughout our 40 year history, we've remained steadfast in our mission to deliver high quality fastening solutions at the lowest total installed cost. We've expanded and improved our offerings and services by creating proprietary rivet nut products, forming strategic partnerships, and establishing world-class production facilities and customer support centers in Taiwan, Malaysia, Ireland, China, Mexico, U.K., Poland, and the US.

In 2024, Sherex was acquired by PennEngineering, joining their ecosystem of world-class fastening companies, including PEM®, PROFIL®, Haeger®, PEM® China, Heyco® and MDS.

We've assembled a team of experienced, knowledgeable engineering and technical sales professionals that are dedicated to exceeding our customers' needs by collaborating to create customized, application-specific solutions.

Quality

Each Sherex manufacturing facility is led by a team of seasoned engineering professionals charged with ensuring all products meet stringent quality requirements. Our facilities are certified to AS9100, ISO 9001:2015, ISO 14001:2015, and IATF 16949:2016. The Sherex Quality Management System, and our use of SPC (Statistical Process Control) ensures that all of our products are manufactured using reliable, repeatable, and compliant processes.

We also use tensile testing, accelerated corrosion salt spray testing machines, torque testing, standard measurement and gauging equipment, and optical sorting machines to ensure world class product quality. Please contact us for more information on our quality certifications and processes.

Industries

Rivet nuts are used in a variety of industries:

- | | | | |
|--------------------------|--------------------------|---------------|---------------------|
| • Automotive | • Construction Equipment | • Railways | • Data Centers |
| • HVAC | • General Industrial | • Heavy Truck | • Server Racks |
| • Aerospace and Defense | • Electronics | • Solar | • BESS |
| • Agricultural Equipment | • Medical | • Wind Power | • Fitness Equipment |





Global Presence

Sherex provides service and support to our customers around the world through a network of sales offices, technical support centers, distribution hubs, and manufacturing facilities.

World Class Manufacturing Facilities

Sherex has five strategically-located, ISO and IATF certified manufacturing facilities in Chungli City, Taiwan, Seremban, Malaysia, Kunshan China, Galway Ireland, and Danboro, PA, that produce a wide variety of fasteners.



PennEngineering Galway

PennEngineering Galway serves as the company's European headquarters and operates as a center of excellence for European innovation. From its Galway facility, PEM produces innovative fastening solutions, including self-clinching fasteners, rivet nuts, and other specialty fasteners.



PennEngineering Malaysia

PennEngineering Malaysia specializes in using cold forming technology to produce rivet nuts, rivet nut studs, and specialty fasteners for high-volume production.



PennEngineering Kunshan

PennEngineering Kunshan produces prototypes, and high volume rivet nut, rivet nut studs, and specialty fasteners to serve the China and Asia market.



Sherex Danboro, Pennsylvania

Sherex Danboro manufactures MS/NAS fasteners, Sherex standard rivet nuts, and other specialty parts using cold forming and machining technologies. Our small and large batch production capabilities allow us to offer reduced lead times and low minimum order quantities.



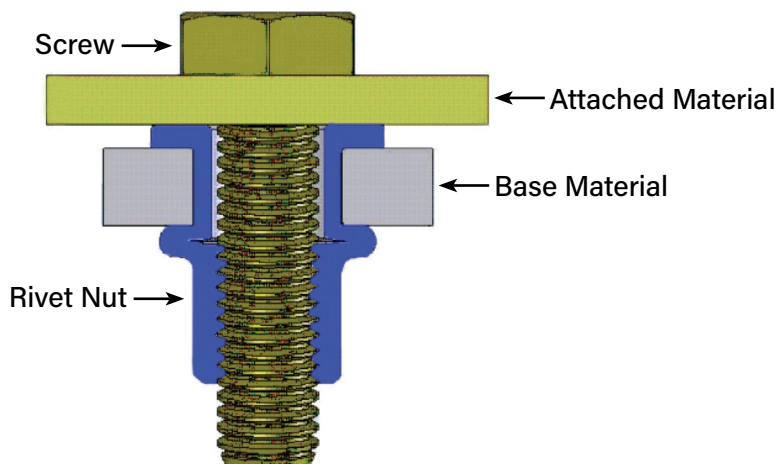
Sherex Taiwan

Sherex Taiwan specializes in using cold forming technology to produce rivet nuts, rivet nut studs, and specialty designs for both prototype and high-volume production.

Introduction to Rivet Nuts

Blind Rivet Nuts provide load-bearing threads in thin sheet materials that are too thin for a tapped thread. They are called “blind” because they can be installed from one side of the work piece.

Once the rivet nut is installed, additional components can be attached using threaded fasteners.



Advantages of Rivet Nuts

- Provide a strong thread in thin materials that cannot be tapped
- Can be installed from one side of the work piece as a “Blind Application”
- Are ideal when easy disassembly and reassembly of products is required
- Can be installed in many different kinds of material including steel, plastic and fiberglass
- High strength rivet nuts can meet Class 10/Grade 8 thread proof load
- Once Rivet Nuts are installed, additional components with threaded fasteners can be attached
- Prepainted material will not be damaged during the Rivet Nut installation process
- Rivet Nuts are available in many different styles & materials for many different types of applications
- Ideal replacement for weld nuts:
 - More efficient, simple installation
 - Will not distort base material
 - Eliminate weld spatter, toxic fumes, and other by-products of the welding process

Metric Body Styles

- Metric body styles are designed to be placed into metric drilled or punched holes
- Many metric body styles are available with metric or inch threads
- Metric body style products can be manufactured at our Malaysia, Taiwan, Galway, Kunshan, and United States manufacturing facilities
- Special designs are available to meet customer specific requirements. Contact Sherex with your application information



Unified Body Styles

- Unified body styles are designed to be placed in fractional or inch drill/punch hole sizes
- They are the most common styles used in the North American marketplace
- Most inch/imperial body styles are available with metric or inch threads
- Unified body style products can be manufactured at our Malaysia, Taiwan, Galway, Kunshan, and United States manufacturing facilities



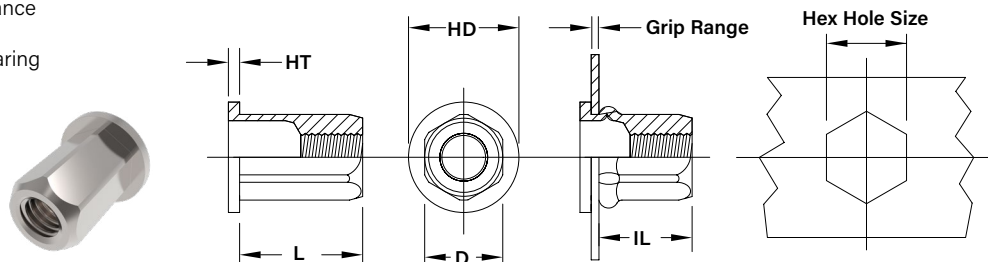
Catalog Attributes

Grip Range = Material Thickness	D(A/F) = Diameter Across Flats
L = Length	IL = Installed Length
HD = Head Diameter	LB = Length Closed End
HT = Head Thickness	ILB = Installed Length Closed End
D = Diameter	ITD = Installed Thread Depth

Metric Body Product Line								
Product Line	Body			Head (Flange)			Available (as an option)	
	Full Hex	Half Hex	Round	Large	Small	Countersunk	Closed End	Sealed End
CFLM	✓			✓			✓	✓
CKLM	✓				✓		✓	
CHLM		✓		✓				✓
CHKM		✓			✓			
CKLM			✓	✓			✓	✓
CKKM			✓		✓		✓	
COLM			✓	✓			✓	
CKCM			✓			✓	✓	
COCM			✓			✓	✓	
COKI			✓		✓			

CFLM – Metric Style Full-Hex Steel Rivet Nut, Large Flange, Open End

- Full hex body for best spin-out resistance
- Metric hole sizes and metric threads
- Large flange to provide increased bearing surface area

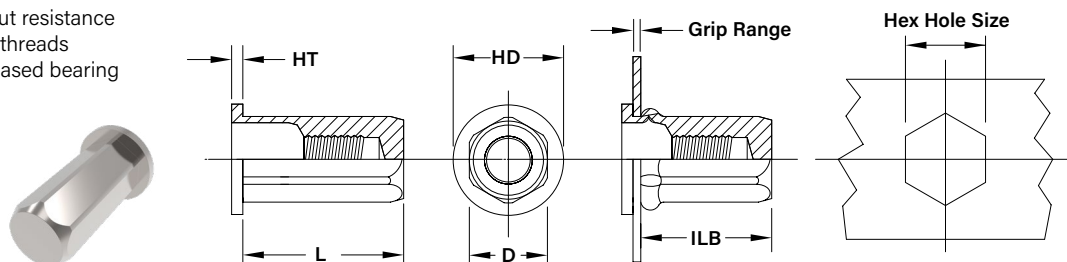


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Open						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D (A/F) Max.	IL Ref.	Hole Size in Sheet +0.1
M3x0.5	CFLM2-350-2.0	0.5 - 2.0	9.75	8	0.75	4.98	6	5
	CFLM2-350-3.5	2.0 - 3.5	11.25					
M4x0.7	CFLM2-470-2.5	0.5 - 2.5	9.8	9	1	5.98	6.3	6
	CFLM2-470-4.5	2.5 - 4.5	12.8					
M5x0.8	CFLM2-580-3.0	0.5 - 3.0	12.7	10	1	6.98	8	7
	CFLM2-580-5.5	3.0 - 5.5	14.5				6.6	
	CFLM2-580-8.0	5.5 - 8.0	17					
M6x1	CFLM2-610-3.0	0.5 - 3.0	14.2	12.9	1.5	8.98	10	9
	CFLM2-610-5.5	3.0 - 5.5	17.2					
	CFLM2-610-8.0	5.5 - 8.0	19.7					
M8x1.25	CFLM2-8125-3.0	0.5 - 3.0	16.25	16	1.5	10.98	11	11
	CFLM2-8125-5.5	3.0 - 5.5	19.25					
	CFLM2-8125-8.0	5.5 - 8.0	21.75					
M10x1.5	CFLM2-1015-3.5	0.7 - 3.5	20.8	19	2	12.98	15	13
	CFLM2-1015-6.0	3.5 - 6.0	23.3					
	CFLM2-1015-9.0	6.0 - 9.0	26.3					
M12x1.75	CFLM2-12175-4.0	1.0 - 4.0	24.8	23	2	15.98	17	16
	CFLM2-12175-7.0	4.0 - 7.0	27.8					

CFLM – Metric Style Full-Hex Steel Rivet Nut, Large Flange, Closed End

- Full hex body for best spin-out resistance
- Metric hole sizes and metric threads
- Large flange to provide increased bearing surface area

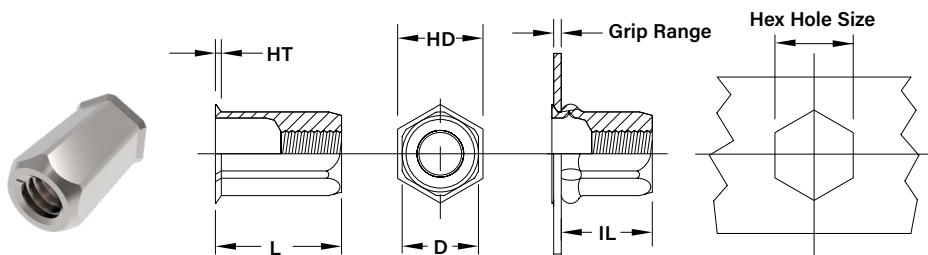


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Closed						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D (A/F) Max.	ILB Ref.	Hole Size in Sheet +0.1
M4x0.7	CFLM2-470-2.5B	0.5 - 2.5	13.8	9	1	5.98	10	6
M5x0.8	CFLM2-580-3.0B	0.5 - 3.0	18.7	10	1	6.98	14	7
M6x1	CFLM2-610-3.0B	0.5 - 3.0	21.3	12.9	1.5	8.98	17	9
M8x1.25	CFLM2-8125-3.0B	0.5 - 3.0	24.3	16	1.5	10.98	19	11
M10x1.5	CFLM2-1015-3.5B	0.7 - 3.5	30.75	19	2	12.98	25	13
M12x1.75	CFLM2-12175-4.0B	1.0 - 4.0	36.8	23	2	15.98	30	16

CFKM - Metric Style Full-Hex Body Steel Rivet Nut, Small Flange, Open End

- Full hex body for best spin-out resistance
- Metric hole sizes and metric threads
- Small flange to for near flush installation in base material

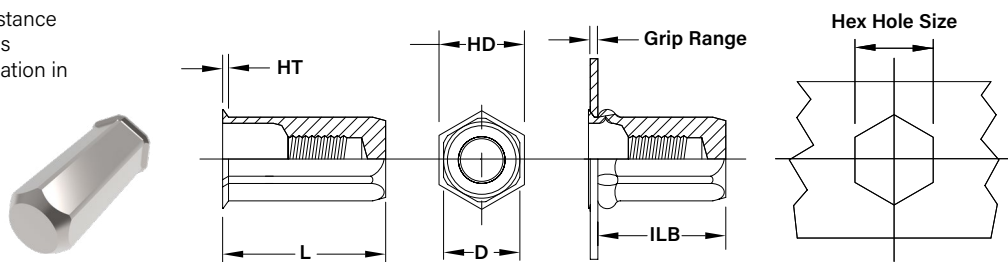


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Open						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D (A/F) Max.	IL Ref.	Hole Size in Sheet +0.1
M3x0.5	CFKM2-350-2.0	0.5 - 2.0	10.05	5.5	0.46	4.98	6.3	5
	CFKM2-350-3.5	2.0 - 3.5	11.55					
M4x0.7	CFKM2-470-2.5	0.5 - 2.5	10.8	6.60	0.46	5.98	6.5	6
	CFKM2-470-4.5	2.5 - 4.5	13.5					
M5x0.8	CFKM2-580-3.0	0.5 - 3.0	13.8	7.7	0.6	6.98	9	7
	CFKM2-580-5.5	3.0 - 5.5	16.5					
	CFKM2-580-8.0	5.5 - 8.0	19					
M6x1	CFKM2-610-3.5	0.5 - 3.5	16.2	10	0.75	8.98	10.2	9
	CFKM2-610-6.0	3.5 - 6.0	19.25					
	CFKM2-610-9.0	6.0 - 9.0	22.25					
M8x1.25	CFKM2-8125-3.5	0.5 - 3.5	17.8	12	0.8	10.98	12.5	11
	CFKM2-8125-6.0	3.5 - 6.0	20.8					
	CFKM2-8125-9.0	6.0 - 9.0	23.8					
M10x1.5	CFKM2-1015-3.5	0.7 - 3.5	22	14.2	0.9	12.98	16	13
	CFKM2-1015-6.0	3.5 - 6.0	25					
	CFKM2-1015-9.0	6.0 - 9.0	28					
M12x1.75	CFKM2-12175-4.0	1.0 - 4.0	24.8	17.6	1	15.98	16	16
	CFKM2-12175-7.0	4.0 - 7.0	27.8					

CFKM - Metric Style Full-Hex Body Steel Rivet Nut, Small Flange, Closed End

- Full hex body for best spin-out resistance
- Metric hole sizes and metric threads
- Small flange to for near flush installation in base material

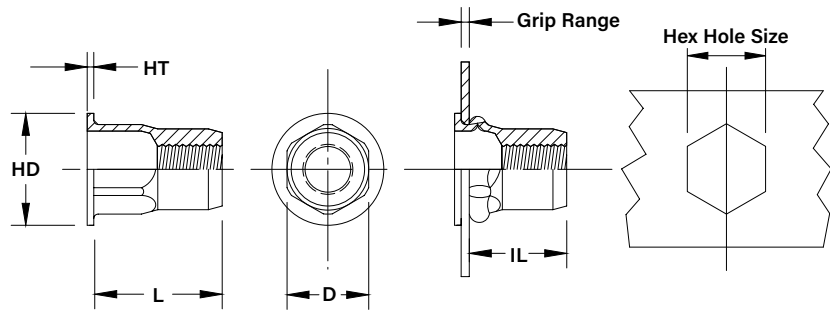


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Closed						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D (A/F) Max.	ILB Ref.	Hole Size in Sheet +0.1
M4x0.7	CFKM2-470-2.5B	0.5 - 2.5	17.8	6.6	0.46	5.98	13	6
M5x0.8	CFKM2-580-3.0B	0.5 - 3.0	20.2	7.7	0.6	6.98	15	7
M6x1	CFKM2-610-3.5B	0.5 - 3.5	23.2	10	0.75	8.98	17.2	9
M8x1.25	CFKM2-8125-3.5B	0.5 - 3.5	28.3	12	0.8	10.98	22.5	11
M10x1.5	CFKM2-1015-3.5B	0.7 - 3.5	35	14.2	0.9	12.98	27	13
M12x1.75	CFKM2-12175-4.0B	1.0 - 4.0	38	17.6	1	15.98	27	16

CHLM - Metric Style Steel Half Hex Body Rivet Nut, Large Flange, Open End

- Semi hex body for excellent spin-out resistance
- Metric hole sizes and metric threads
- Large flange for increased push-out resistance

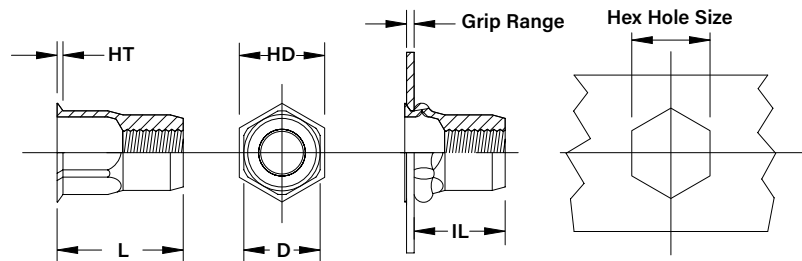


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Closed						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D (A/F) Max.	IL Ref.	Hole Size in Sheet +0.1
M3x0.5	CHLM2-350-2.0	0.5 - 2.0	9.75	8	0.75	4.98	6	5
M4x0.7	CHLM2-470-2.5	0.5 - 2.5	10	9	1	5.98	5.8	6
M5x0.8	CHLM2-580-3.0	0.5 - 3.0	12	10	1	6.98	7.3	7
	CHLM2-580-5.5	3.0 - 5.5	14.5					
M6x1	CHLM2-610-3.0	0.5 - 3.0	12.75	13	1.5	8.98	8	9
	CHLM2-610-5.5	3.0 - 5.5	15.25					
M8x1.25	CHLM2-8125-3.0	0.5 - 3.0	16.5	16	1.5	10.98	11.2	11
	CHLM2-8125-5.5	3.0 - 5.5	19					
M10x1.5	CHLM2-1015-3.5	0.7 - 3.5	19.75	19	2	12.98	11.7	13
	CHLM2-1015-6.0	3.5 - 6.0	22.25					
M12x1.75	CHLM2-12175-4.0	1.0 - 4.0	25	23	2	15.98	16	16

CHKM - Metric Style Steel Half Hex Body Rivet Nut, Small Flange, Open End

- Semi hex body for good spin-out resistance
- Metric hole sizes and metric threads
- Small flange for near flush installation in base material

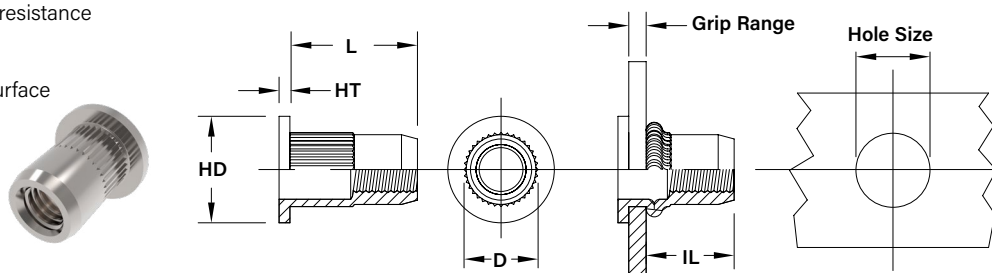


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Open						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D (A/F) Max.	IL Ref.	Hole Size in Sheet +0.1
M3x0.5	CHKM2-350-2.0	0.5 - 2.0	10.05	5.5	0.46	4.98	6.3	5
M4x0.7	CHKM2-470-2.5	0.5 - 2.5	10.7	6.7	0.46	5.98	6	6
M5x0.8	CHKM2-580-3.0	0.5 - 3.0	13	7.9	0.46	6.98	7.5	7
	CHKM2-580-5.5	3.0 - 5.5	15.5					
M6x1	CHKM2-610-3.0	0.5 - 3.0	13.75	10	0.5	8.98	8.3	9
	CHKM2-610-5.5	3.0 - 5.5	17.4					
M8x1.25	CHKM2-8125-3.0	0.5 - 3.0	17.25	12	0.63	10.98	11.3	11
	CHKM2-8125-5.5	3.0 - 5.5	19					
M10x1.5	CHKM2-1015-3.5	0.7 - 3.5	20.3	14.2	0.74	12.98	12.3	13
	CHKM2-1015-6.0	3.5 - 6.0	22.8					
M12x1.75	CHKM2-12175-4.0	1.0 - 4.0	25	17.6	1	15.98	16	16

CKLM - Metric Style Steel Round Body Knurled Rivet Nut, Large Flange, Open End

- Knurled body for increased spin-out resistance in softer materials
- Metric hole sizes and metric threads
- Large flange for increased bearing surface

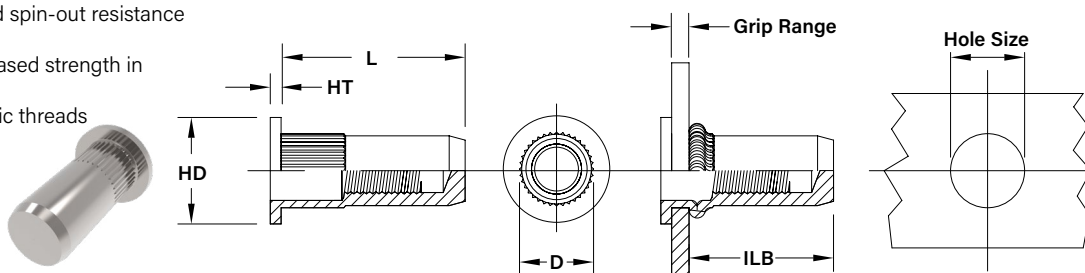


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Open						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D Max.	IL Ref.	Hole Size in Sheet +0.1
M3x0.5	CKLM2-350-2.0	0.5 - 2.0	9.75	7	1	4.98	6	5
	CKLM2-350-3.5	2.0 - 3.5	11.25					
M4x0.7	CKLM2-470-2.5	0.5 - 2.5	11	9	1	5.98	6.3	6
	CKLM2-470-4.5	2.5 - 4.5	12.5					
M5x0.8	CKLM2-580-3.0	0.5 - 3.0	11.75	10	1	6.98	7.3	7
	CKLM2-580-5.5	3.0 - 5.5	14.5				8	
	CKLM2-580-8.0	5.5 - 8.0	17				8	
M6x1	CKLM2-610-3.0	0.5 - 3.0	12.8	13	1.5	8.98	8	9
	CKLM2-610-5.5	3.0 - 5.5	15.4				8.2	
	CKLM2-610-8.0	5.5 - 8.0	17.9				8.2	
M8x1.25	CKLM2-8125-3.0	0.5 - 3.0	16.2	16	1.5	10.98	11	11
	CKLM2-8125-5.5	3.0 - 5.5	18.9					
	CKLM2-8125-8.0	5.5 - 8.0	21.4					
M10x1.5	CKLM2-1015-3.5	0.7 - 3.5	19.8	19	2	12.98	13.9	13
	CKLM2-1015-6.0	3.5 - 6.0	22.3				14	
	CKLM2-1015-9.0	6.0 - 9.0	25.3				14	
M12x1.75	CKLM2-12175-4.5	1.5 - 4.5	27.8	23	2	15.98	17.8	16
	CKLM2-12175-4.5	4.5 - 7.5	30.8					

CKLM - Metric Style Steel Round Body Knurled Rivet Nut, Large Flange, Closed End

- Knurled body for increased spin-out resistance in softer materials
- Large flange provide increased strength in punched and drilled holes
- Metric hole sizes and metric threads

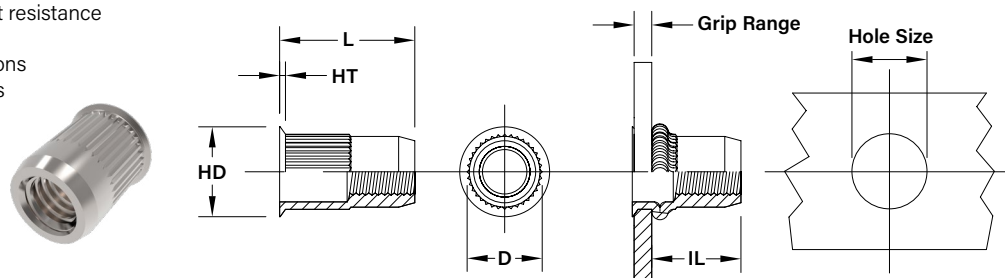


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Closed						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D Max.	ILB Ref.	Hole Size in Sheet +0.1
M4x0.7	CKLM2-470-2.5B	0.5 - 2.5	15.6	9	1	5.98	11.3	6
M5x0.8	CKLM2-580-3.0B	0.5 - 3.0	18.75	10	1	6.98	14.3	7
M6x1	CKLM2-610-3.0B	0.5 - 3.0	20	13	1.5	8.98	15	9
M8x1.25	CKLM2-8125-3.0B	0.5 - 3.0	25	16	1.5	10.98	19.5	11
M10x1.5	CKLM2-1015-3.5B	0.7 - 3.5	30.3	19	2	12.98	24.5	13
M12x1.75	CKLM2-12175-4.5B	1.5 - 4.5	35	23	2	15.98	25	16

CKKM - Metric Style Steel Round Body Knurled Rivet Nut, Small Flange, Open End

- Knurled body for increased spin-out resistance in softer materials
- Small flange for near flush installations
- Metric hole sizes and metric threads

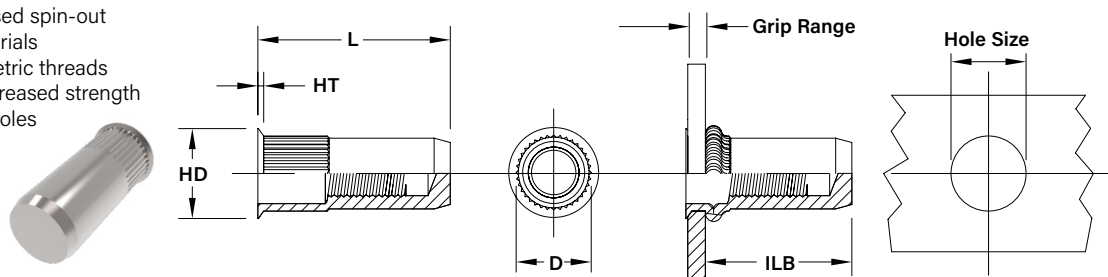


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Open						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D Max.	IL Ref.	Hole Size in Sheet +0.1
M3x0.5	CKKM2-350-2.0	0.5 - 2.0	9	5.7	0.46	4.98	6	5
	CKKM2-350-3.5	2.0 - 3.5	10.5					
M4x0.7	CKKM2-470-2.5	0.5 - 2.5	10.7	6.6	0.46	5.98	6.3	6
	CKKM2-470-4.5	2.5 - 4.5	12.5					
M5x0.8	CKKM2-580-3.0	0.5 - 3.0	12.75	7.7	0.46	6.98	7.4	7
	CKKM2-580-5.5	3.0 - 5.5	14.9				7	
	CKKM2-580-8.0	5.5 - 8.0	17.4				7	
M6x1	CKKM2-610-3.0	0.5 - 3.0	13.8	10	0.5	8.98	8.5	9
	CKKM2-610-5.5	3.0 - 5.5	17.4				8.8	
	CKKM2-610-8.0	5.5 - 8.0	19.9				8.8	
M8x1.25	CKKM2-8125-3.0	0.5 - 3.0	17.25	12	0.63	10.98	11.1	11
	CKKM2-8125-5.5	3.0 - 5.5	18.9				11.8	
	CKKM2-8125-8.0	5.5 - 8.0	21.4				11.8	
M10x1.5	CKKM2-1015-3.5	0.7 - 3.5	20.75	14.2	0.74	12.98	14	13
	CKKM2-1015-6.0	3.5 - 6.0	23.5					
	CKKM2-1015-9.0	6.0 - 9.0	26.5					
M12x1.75	CKKM2-12175-4.5	1.5 - 4.5	25.8	17	1	15.98	17.8	16
	CKKM2-12175-7.5	4.5 - 7.5	28.8					

CKKM - Metric Style Steel Round Body Knurled Rivet Nut, Small Flange, Closed End

- Knurled body for increased spin-out resistance in softer materials
- Metric hole sizes and metric threads
- Large flange provide increased strength in punched and drilled holes

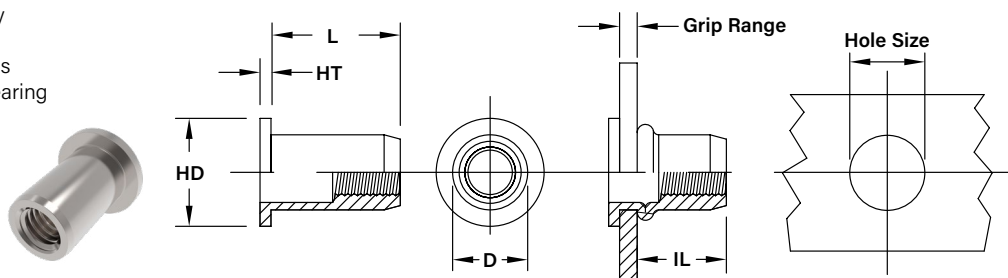


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Closed						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D Max.	ILB Ref.	Hole Size in Sheet +0.1
M4x0.7	CKKM2-470-2.5B	0.5 - 2.5	17.7	6.6	0.46	5.98	12.8	6
M5x0.8	CKKM2-580-3.0B	0.5 - 3.0	19.85	7.7	0.46	6.98	14.5	7
M6x1	CKKM2-610-3.0B	0.5 - 3.0	21.3	10	0.5	8.98	16	9
M8x1.25	CKKM2-8125-3.0B	0.5 - 3.0	25.3	12	0.63	10.98	18	11
M10x1.5	CKKM2-1015-3.5B	0.7 - 3.5	28.3	14.2	0.74	12.98	22.3	13
M12x1.75	CKKM2-12175-4.5B	1.5 - 4.5	34.8	17	1	15.98	21.1	16

COLM - Metric Style Steel Round Body Smooth Rivet Nut, Large Flange, Open End

- Smooth body rivet nut for light duty applications
- Metric hole sizes and metric threads
- Large flange provides increased bearing surface area

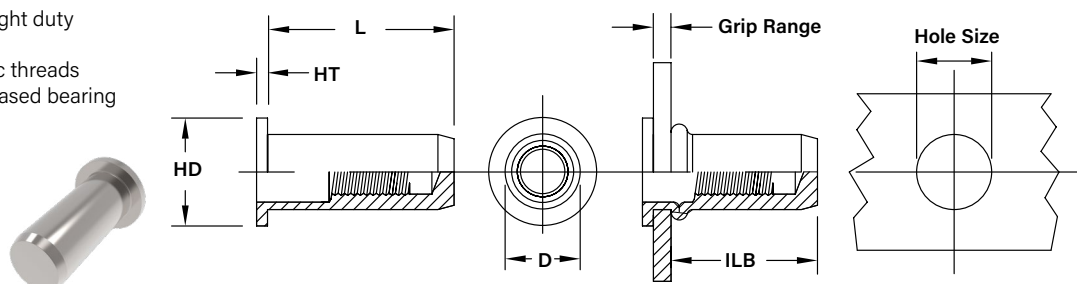


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Open						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D Max.	IL Ref.	Hole Size in Sheet +0.1
M3x0.5	COLM2-350-2.0	0.5 - 2.0	9.75	7	1	4.98	6	5
	COLM2-350-3.5	2.0 - 3.5	11.25					
M4x0.7	COLM2-470-2.5	0.5 - 2.5	11	9	1	5.98	6.3	6
	COLM2-470-4.5	2.5 - 4.5	12.5					
M5x0.8	COLM2-580-3.0	0.5 - 3.0	12.75	10	1	6.98	8	7
	COLM2-580-5.5	3.0 - 5.5	15.7				9.1	
	COLM2-580-8.0	5.5 - 8.0	18.8				10	
M6x1	COLM2-610-3.0	0.5 - 3.0	14.3	13	1.5	8.98	10	9
	COLM2-610-5.5	3.0 - 5.5	17.2				9.3	
	COLM2-610-8.0	5.5 - 8.0	20.2				10	
M8x1.25	COLM2-8125-3.0	0.5 - 3.0	16.3	16	1.5	10.98	11	11
	COLM2-8125-5.5	3.0 - 5.5	19.3				11.5	
	COLM2-8125-8.0	5.5 - 8.0	22.3				11.8	
M10x1.5	COLM2-1015-3.5	0.7 - 3.5	20.75	19	2	12.98	15	13
	COLM2-1015-6.0	3.5 - 6.0	23.75					
	COLM2-1015-9.0	6.0 - 9.0	25.75					
M12x1.75	COLM2-12175-4.0	1.0 - 4.0	24.7	23	2	15.98	17.1	16
	COLM2-12175-7.0	4.0 - 7.0	27.7				17.5	

COLM - Metric Style Steel Round Body Smooth Rivet Nut, Large Flange, Closed End

- Smooth body rivet nut for light duty applications
- Metric hole sizes and metric threads
- Large flange provides increased bearing surface area

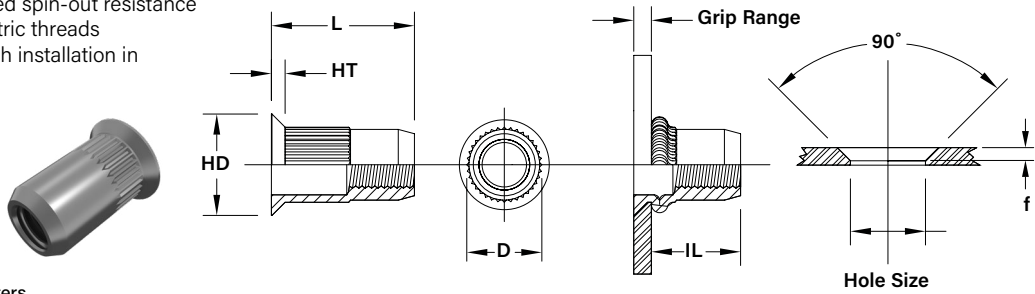


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Closed						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D Max.	ILB Ref.	Hole Size in Sheet +0.1
M4x0.7	COLM2-470-2.5B	0.5 - 2.5	16.9	9	1	5.98	12.2	6
M5x0.8	COLM2-580-3.0B	0.5 - 3.0	18.7	10	1	6.98	14.	7
M6x1	COLM2-610-3.0B	0.5 - 3.0	21.2	13	1.5	8.98	16.3	9
M8x1.25	COLM2-8125-3.0B	0.5 - 3.0	24.2	16	1.5	10.98	19	11
M10x1.5	COLM2-1015-3.5B	0.7 - 3.5	30.7	19	2	12.98	25	13
M12x1.75	COLM2-12175-4.0B	1.0 - 4.0	36.8	23	2	15.98	29.6	16

CKCM - Metric Style Steel Countersunk Knurled Body Rivet Nut, Open End

- Knurled body for increased spin-out resistance
- Metric hole sizes and metric threads
- Countersunk for near flush installation in countersunk holes

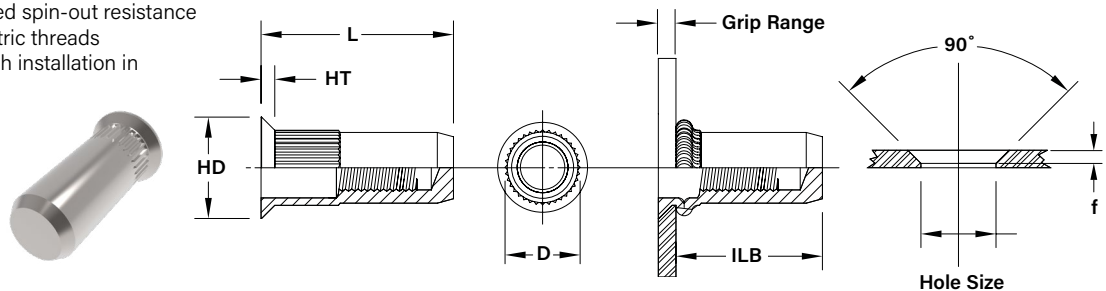


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Open							
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D Max.	IL Ref.	f	Hole Size in Sheet +0.1
M3x0.5	CKCM2-350-3.0	1.5 - 3.0	8.8	6.6	1.3	4.98	5.4	1.2	5
	CKCM2-350-4.5	3.0 - 4.5	10.4				4.8		
M4x0.7	CKCM2-470-3.5	1.5 - 3.5	11.5	7.8	1.3	5.98	5.9	1.2	6
	CKCM2-470-5.0	3.5 - 5.0	13						
M5x0.8	CKCM2-580-4.0	1.5 - 4.0	13.7	9	1.3	6.98	8	1.2	7
	CKCM2-580-6.5	4.0 - 6.5	16.7				8.6		
	CKCM2-580-9.0	6.5 - 9.0	19.8				9		
M6x1	CKCM2-610-4.0	1.5 - 4.0	15.7	11	1.3	8.98	10	1.2	9
	CKCM2-610-6.5	4.0 - 6.5	20.3				11.4		
	CKCM2-610-9.0	6.5 - 9.0	21.8						
M8x1.25	CKCM2-8125-4.0	1.5 - 4.0	17.8	13	1.3	10.98	11	1.2	11
	CKCM2-8125-6.5	4.0- 6.5	20.8						
	CKCM2-8125-9.0	6.5 - 9.0	23.75						
M10x1.5	CKCM2-1015-4.0	1.5 - 4.0	21.8	15	1.3	12.98	15	1.2	13
	CKCM2-1015-6.5	4.0 - 6.5	24.75				14.8		
	CKCM2-1015-9.0	6.5 - 9.0	28						
M12x1.75	CKCM2-12175-4.5	2.0 - 4.5	25.9	18.6	1.8	15.98	17.5	1.7	16
	CKCM2-12175-7.5	4.5 - 7.5	29						

CKCM - Metric Style Steel Countersunk Knurled Body Rivet Nut, Closed End

- Knurled body for increased spin-out resistance
- Metric hole sizes and metric threads
- Countersunk for near flush installation in countersunk holes

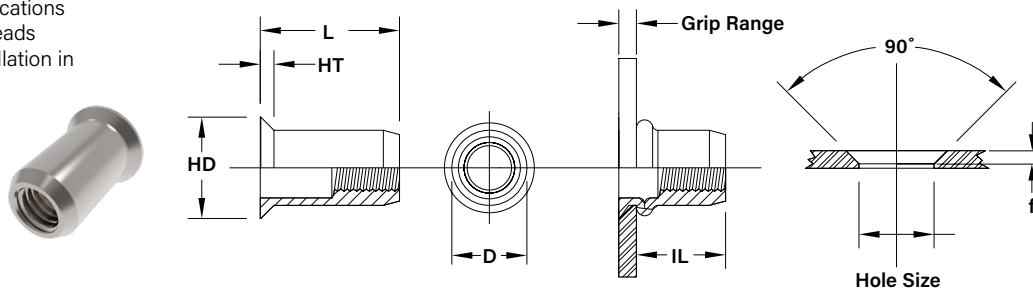


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Closed							
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D Max.	ILB Ref.	f	Hole Size in Sheet +0.1
M4x0.7	CKCM2-470-3.5B	1.5 - 3.5	16.3	7.8	1.3	5.98	10.7	1.2	6
M5x0.8	CKCM2-580-4.0B	1.5 - 4.0	21.3	9	1.3	6.98	14	1.2	7
M6x1	CKCM2-610-4.0B	1.5 - 4.0	22.7	11	1.3	8.98	17	1.2	9
M8x1.25	CKCM2-8125-4.0B	1.5 - 4.0	25.7	13	1.3	10.98	19	1.2	11
M10x1.5	CKCM2-1015-4.0B	1.5 - 4.0	31.8	15	1.3	12.98	25.4	1.2	13
M12x1.75	CKCM2-12175-4.5B	2.0 - 4.5	40.8	18.6	1.8	15.98	30.5	1.7	16

COCM - Metric Style Steel Countersunk Smooth Body Rivet Nut, Open End

- Smooth body for light duty applications
- Metric hole sizes and metric threads
- Countersunk for near flush installation in countersunk holes

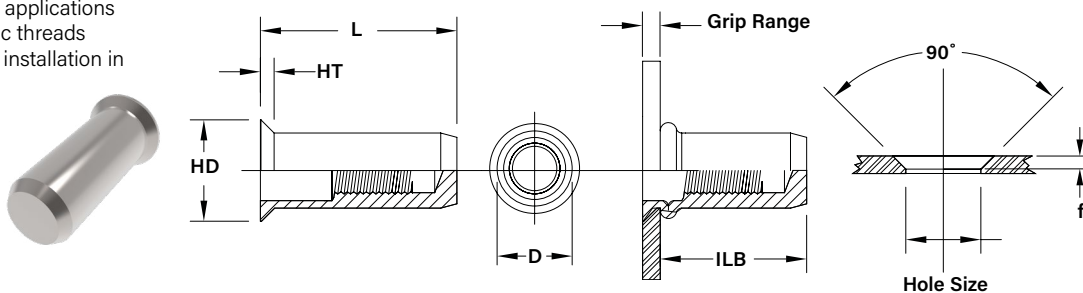


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Open							
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D Max.	IL Ref.	f	Hole Size in Sheet +0.1
M3x0.5	COCM2-350-3.0	1.5 - 3.0	8.8	6.6	1.3	4.98	5.4	1.2	5
	COCM2-350-4.5	3.0 - 4.5	10.4				4.8		
M4x0.7	COCM2-470-3.5	1.5 - 3.5	11.5	7.8	1.3	5.98	5.9	1.2	6
	COCM2-470-5.0	3.5 - 5.0	13						
M5x0.8	COCM2-580-4.0	1.5 - 4.0	13.7	9	1.3	6.98	8	1.2	7
	COCM2-580-6.5	4.0 - 6.5	16.7				8.6		
	COCM2-580-9.0	6.5 - 9.0	19.8				9		
M6x1	COCM2-610-4.0	1.5 - 4.0	15.7	11	1.3	8.98	10	1.2	9
	COCM2-610-6.5	4.0 - 6.5	20.3						
	COCM2-610-9.0	6.5 - 9.0	21.8				11.4		
M8x1.25	COCM2-8125-4.0	1.5 - 4.0	17.8	13	1.3	10.98	11	1.2	11
	COCM2-8125-6.5	4.0 - 6.5	20.8						
	COCM2-8125-9.0	6.5 - 9.0	23.75						
M10x1.5	COCM2-1015-4.0	1.5 - 4.0	21.8	15	1.3	12.98	15.0	1.2	13
	COCM2-1015-6.5	4.0 - 6.5	24.75						
	COCM2-1015-9.0	6.5 - 9.0	28				14.8		
M12x1.75	COCM2-12175-4.5	2.0 - 4.5	25.9	18.6	1.8	15.98	17.5	1.7	16
	COCM2-12175-7.0	4.5 - 7.5	29						

COCM - Metric Style Steel Countersunk Smooth Body Rivet Nut, Closed End

- Smooth body for light duty applications
- Metric hole sizes and metric threads
- Countersunk for near flush installation in countersunk holes

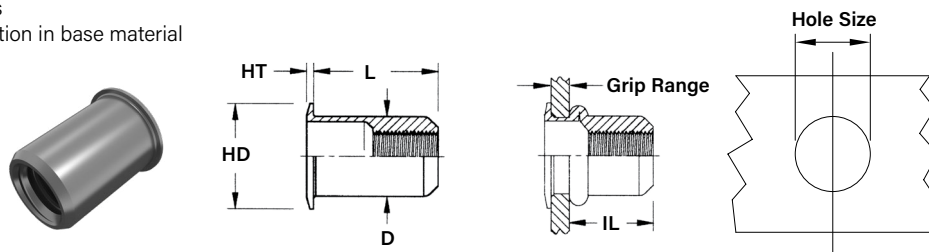


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Closed							
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D Max.	ILB Ref.	f	Hole Size in Sheet +0.1
M4x0.7	COCM2-470-3.5B	1.5 - 3.5	17.4	7.8	1.3	5.98	11.8	1.2	6
M5x0.8	COCM2-580-4.0B	1.5 - 4.0	21.3	9	1.3	6.98	14	1.2	7
M6x1	COCM2-610-4.0B	1.5 - 4.0	22.7	11	1.3	8.98	17	1.2	9
M8x1.25	COCM2-8125-4.0B	1.5 - 4.0	25.7	13	1.3	10.98	19	1.2	11
M10x1.5	COCM2-1015-4.0B	1.5 - 4.0	31.8	15	1.3	12.98	25.4	1.2	13
M12x1.75	COCM2-12175-4.5B	2.0 - 4.5	40.8	18.6	1.8	15.98	30.5	1.7	16

COKI - Metric Style Steel Smooth Body Rivet Nut, Small Flange, Open End, Inch Hole Size

- Smooth body for light duty applications
- Inch hole sizes and metric threads
- Small flange for near flush installation in base material

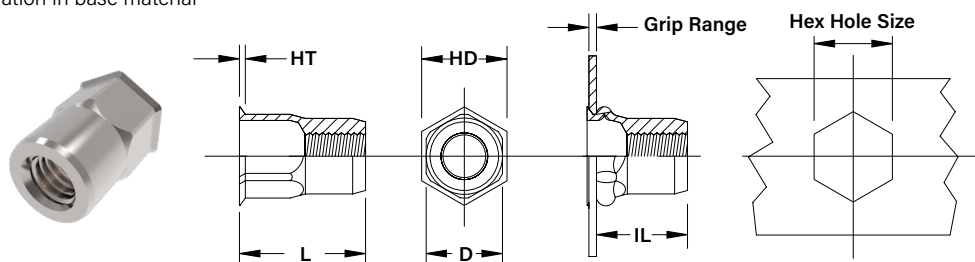


All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Closed						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D Max.	IL Ref.	Hole Size in Sheet +0.1
M3x0.5	COKI2-350-1.5	0.5 - 1.5	8.4	5.2	0.4	4.68	5.5	4.7
M4x0.7	COKI2-470-2.0	0.5 - 2.0	10.2	6.9	0.5	6.38	7.3	6.4
M5x0.8	COKI2-580-3.0	0.5 - 3.0	11.25	7.6	0.6	7.08	7.3	7.1
M6x1	COKI2-610-3.0	0.7 - 3.0	14.3	10.35	0.6	9.48	9.3	9.5
M8x1.25	COKI2-8125-4.5	0.8 - 4.5	16.6	11.5	0.7	10.48	9.6	10.5

CHKI - Metric Style Steel Half Hex Body Rivet Nut, Open End, Inch Hole Size

- Half hex body for good spin-out resistance
- Inch hole sizes and metric threads
- Small flange for near flush installation in base material



All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Closed						
		Grip Range	L ±0.25	HD ±0.25	HT ±0.13	D (A/F) Max.	IL Ref.	Hole Size in Sheet +0.1
M4x0.7	CHKI2-470-2.0	0.5 - 2.0	10.3	6.9	0.5	6.38	6.8	6.4
M5x0.8	CHKI2-580-3.0	0.5 - 3.0	11.45	8.1	0.45	7.28	7	7.3
M6x1	CHKI2-610-3.0	0.7 - 3.0	14.35	10.6	0.6	9.68	9	9.7
M8x1.25	CHKI2-8125-3.3	0.9 - 3.3	15.8	11.55	0.7	10.68	10.2	10.7

Material And Finish Specifications For Metric Style Rivet Nuts

Code	Material	Threads	Standard Finish
1	302 Stainless Steel	Metric, 6H per ASME B113M	Passivated plus wax
2	Steel C1010	Metric, 6H per ASME B113M	Zinc plated - clear trivalent chromate per Sherex SFS-01-001 SC4
3	5056 Aluminum	Metric, 6H per ASME B113M	None

Sherex Proprietary Lines

High Strength | Full Hex Body | Optisert® | RIV-FLOAT® | Large Size Rivet Nuts

All Sherex proprietary lines are designed to be best practice fasteners for all applications. These products are designed to be installed with spin-pull instillation tooling.

Sherex's High Strength Rivet Nut line is was made to be comparable for Class 10.9 / Grade 8 hardware in high clamp load environments. Available in both full hex body and round body, these are the best performing rivet nuts in the Sherex catalog in terms of spin-out resistance and pull- out resistance.

Sherex full hex body rivet nuts provide superior spin-out resistance compared to round body rivet nuts. When a hex shaped hole can be produced, we recommend using one of our full hex rivet nut products over a round body product. Full Hex rivet nuts are ideal for heavy duty applications, and should be installed with spin-pull tools.

Optisert® product line is a round body rivet nut with under head wedges and aggressive knurls to combat spin-out. If the application cannot product a hex hole, Optisert® rivet nuts will be the best part for the round hole, especially in softer materials like plastics, composite, aluminium.

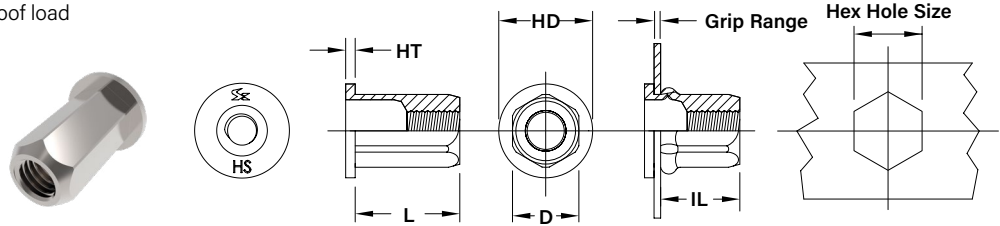
RIV-FLOAT® features a floating nut inside the rivet nut that can self-align bolts in off-center application. This patented product combats tolerance stack up, increases assembly times, and helps eliminate cross-threading. Can be used in applications in all industries.

Sherex Large Size Rivet Nuts are available in thread sizes up to 3/4-inch and M16, and offered in both round body and full hex body styles. These fasteners are popular in heavy duty applications where critical joint performance and high tensile loads are required.

Sherex Proprietary Lines - Unified and Metric								
Product Line	Body		Head (Flange)		Available (as an option)		Performance	
	Hex	Round	Small	Large	Closed End	Sealed End	Class 8/Grade 5 Thread Proof Load	Class 10/Grade 8 Thread Proof Load
HHS	✓			✓	✓	✓		✓
RHS		✓		✓	✓	✓		✓
FHL	✓			✓	✓	✓	✓	
FHK	✓		✓		✓		✓	
OPT		✓		✓	✓	✓	✓	
RFL		✓		✓			✓	
RFK		✓	✓				✓	
RFSL		✓		✓			✓	
RFSK		✓	✓				✓	
LRGH	✓			✓			✓	
LRGR		✓		✓			✓	

HHS - Steel High Strength, Hex-Body Rivet Nut, Open End

- HHS series is its best performing rivet nut
- Rated for Class 10/Grade 8 thread proof load
- Made from higher strength steel
- Superior clamp load, pull out, and spin-out resistance
- Fine threads available



All dimensions are in inches.

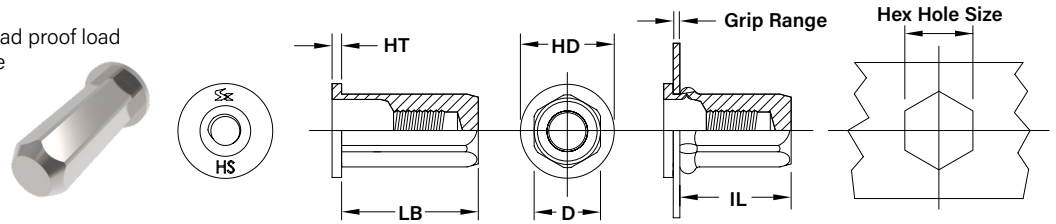
Thread Size	Part Number	Grip Range	L ±.015	HD (A/F) ±.015	HT ±.004	D (A/F) Max.	IL Max.	Hole Size (A/F) +.006 -.000
.190-24 #10-24	HHS2-1024-118	.040 - .118	.638	.394	.059	.275	.488	.276
	HHS2-1024-197	.118 - .197	.717					
	HHS2-1024-276	.197 - .276	.795					
.190-32 #10-32	HHS2-1032-118	.040 - .118	.638	.394	.059	.275	.488	.276
	HHS2-1032-197	.118 - .197	.717					
	HHS2-1032-276	.197 - .276	.795					
.250-20 1/4-20	HHS2-2520-118	.040 - .118	.736	.512	.059	.354	.547	.355
	HHS2-2520-197	.118 - .197	.815					
	HHS2-2520-276	.197 - .276	.894					
.313-18 5/16-18	HHS2-3118-118	.040 - .118	.870	.630	.059	.432	.634	.433
	HHS2-3118-197	.118 - .197	.949					
	HHS2-3118-276	.197 - .276	1.028					
.375-16 3/8-16	HHS2-3716-118	.040 - .118	1.028	.748	.079	.511	.807	.512
	HHS2-3716-197	.118 - .197	1.106					
	HHS2-3716-276	.197 - .276	1.185					
.438-16 7/16-20	HHS2-4320-118	.040 - .118	1.260	.959	.085	.656	.984	.657
	HHS2-4320-197	.118 - .197	1.339					
	HHS2-4320-276	.197 - .276	1.417					
.500-13 1/2-13	HHS2-5013-118	.040 - .118	1.260	.959	.085	.656	.984	.657
	HHS2-5013-197	.118 - .197	1.339					
	HHS2-5013-276	.197 - .276	1.417					

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HD (A/F) ±0.38	HT ±0.01	D (A/F) Max.	IL Max.	Hole Size (A/F) +0.15
M5x0.8	HHS2-580-3.0	1.0 - 3.0	16.2	10	1.5	6.98	12.4	7
	HHS2-580-5.0	3.0 - 5.0	18.2					
	HHS2-580-7.0	5.0 - 7.0	20.2					
M6x1	HHS2-610-3.0	1.0 - 3.0	18.7	13	1.5	8.98	13.9	9
	HHS2-610-5.0	3.0 - 5.0	20.7					
	HHS2-610-7.0	5.0 - 7.0	22.7					
M8x1.25	HHS2-8125-3.0	1.0 - 3.0	22.1	16	1.5	10.98	16.1	11
	HHS2-8125-5.0	3.0 - 5.0	24.1					
	HHS2-8125-7.0	5.0 - 7.0	26.1					
M10x1.5	HHS2-1015-3.0	1.0 - 3.0	26.1	19	2	12.98	20.5	13
	HHS2-1015-5.0	3.0 - 5.0	28.1					
	HHS2-1015-7.0	5.0 - 7.0	30.1					
M12x1.75	HHS2-12175-3.0	1.0 - 3.0	32	24.36	2.16	16.65	25	16.66
	HHS2-12175-5.0	3.0 - 5.0	34					
	HHS2-12175-7.0	5.0 - 7.0	36					

HHS - Steel High Strength, Hex-Body Rivet Nut, Closed End

- Closed end to deter fluid or dust entering through the thread
- Rated for Class 10/Grade 8 thread proof load
- Underhead seal option available
- Fine threads available



All dimensions are in inches.

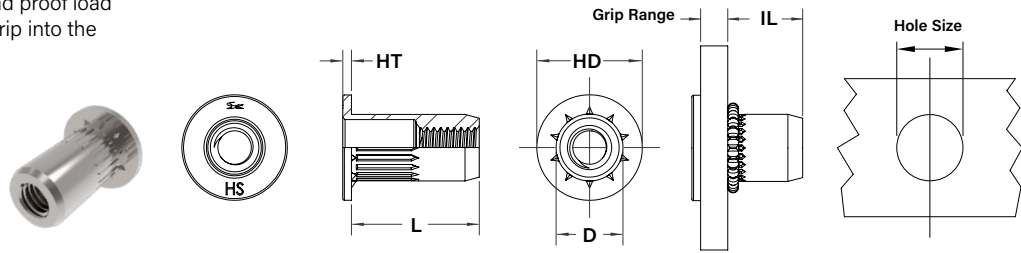
Thread Size	Part Number	Grip Range	LB ±.015	HD (A/F) ±.020 ±.025*	HT ±.004	D (A/F) Max.	ILB Max.	Hole Size (A/F) +.006 -.000
.190-24 #10-24	HHS2-1024-118B	.040 - .118	.941	.394	.059	.275	.791	.276
	HHS2-1024-197B	.118 - .197	1.020					
	HHS2-1024-276B	.197 - .276	1.098					
.190-32 #10-32	HHS2-1032-118B	.040 - .118	.941	.394	.059	.275	.791	.276
	HHS2-1032-197B	.118 - .197	1.020					
	HHS2-1032-276B	.197 - .276	1.098					
.250-20 1/4-20	HHS2-2520-118B	.040 - .118	1.071	.512	.059	.354	.882	.355
	HHS2-2520-197B	.118 - .197	1.150					
	HHS2-2520-276B	.197 - .276	1.228					
.313-18 5/16-18	HHS2-3118-118B	.040 - .118	1.244	.630	.059	.432	1.008	.433
	HHS2-3118-197B	.118 - .197	1.323					
	HHS2-3118-276B	.197 - .276	1.402					
.375-16 3/8-16	HHS2-3716-118B	.040 - .118	1.441	.748	.079	.511	1.220	.512
	HHS2-3716-197B	.118 - .197	1.520					
	HHS2-3716-276B	.197 - .276	1.598					
.438-16 7/16-20	HHS2-4320-118B	.040 - .118	1.713	.959	.085	.656	.984	.657
	HHS2-4320-197B	.118 - .197	1.791					
	HHS2-4320-276B	.197 - .276	1.870					
.500-13 1/2-13	HHS2-5013-118B	.040 - .118	1.713	.959*	.085	.656	.984	.657
	HHS2-5013-197B	.118 - .197	1.791					
	HHS2-5013-276B	.197 - .276	1.870					

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	LB ±0.38	HD (A/F)	HT ±0.01	D (A/F) Max.	ILB Max.	Hole Size (A/F) +0.15
M5x0.8	HHS2-580-3.0B	1.0 - 3.0	23.9	10	1.5	6.98	20.1	7
	HHS2-580-5.0B	3.0 - 5.0	25.9					
	HHS2-580-7.0B	5.0 - 7.0	27.9					
M6x1	HHS2-610-3.0B	1.0 - 3.0	27.2	13	1.5	8.98	22.4	9
	HHS2-610-5.0B	3.0 - 5.0	29.2					
	HHS2-610-7.0B	5.0 - 7.0	31.2					
M8x1.25	HHS2-8125-3.0B	1.0 - 3.0	31.6	16	1.5	10.98	25.6	11
	HHS2-8125-5.0B	3.0 - 5.0	33.6					
	HHS2-8125-7.0B	5.0 - 7.0	35.6					
M10x1.5	HHS2-1015-3.0B	1.0 - 3.0	36.6	19	2	12.98	31	13
	HHS2-1015-5.0B	3.0 - 5.0	38.6					
	HHS2-1015-7.0B	5.0 - 7.0	40.6					
M12x1.75	HHS2-12175-3.0B	1.0 - 3.0	43.5	24.36	2.16	16.65	36.5	16.66
	HHS2-12175-5.0B	3.0 - 5.0	45.5					
	HHS2-12175-7.0B	5.0 - 7.0	47.5					

RHS - Steel High Strength, Round Body Rivet Nut, Open End

- Rated for Class 10/Grade 8 thread proof load
- Small underhead wedges help grip into the base material
- Excellent spin-out resistance for round body rivet nut
- Fine threads available



All dimensions are in inches.

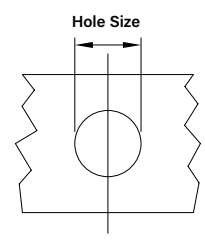
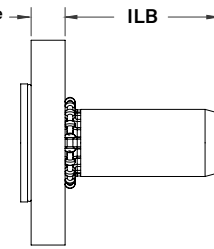
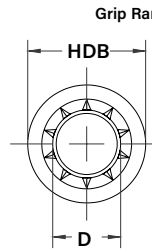
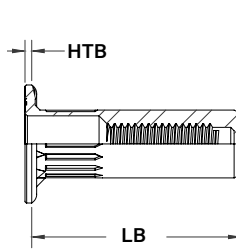
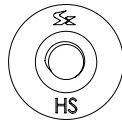
Thread Size	Part Number	Grip Range	L ±.015	HD ±.015 ±.025*	HT ±.004	D Max.	IL Max.	Hole Size +.006 -.000
.190-24 #10-24	RHS2-1024-138	.060 - .138	.634	.433	.037	.298	.476	.299
	RHS2-1024-217	.138 - .217	.713					
	RHS2-1024-296	.217 - .296	.792					
.190-32 #10-32	RHS2-1032-138	.060 - .138	.634	.433	.037	.298	.476	.299
	RHS2-1032-217	.138 - .217	.713					
	RHS2-1032-296	.217 - .296	.792					
.250-20 1/4-20	RHS2-2520-138	.060 - .138	.711	.610	.050	.393	.512	.394
	RHS2-2520-217	.138 - .217	.789					
	RHS2-2520-296	.217 - .296	.868					
.313-18 5/16-18	RHS2-3118-138	.060 - .138	.789	.857	.062	.531	.591	.531
	RHS2-3118-217	.138 - .217	.867					
	RHS2-3118-296	.217 - .296	.946					
.375-16 3/8-16	RHS2-3716-138	.060 - .138	1.044	1.024*	.074	.624	.768	.625
	RHS2-3716-217	.138 - .217	1.123					
	RHS2-3716-296	.217 - .296	1.202					
.438-16 7/16-20	RHS2-4320-138	.060 - .138	1.22	1.106*	.085	.685	1.004	.687
	RHS2-4320-217	.138 - .217	1.299					
	RHS2-4320-296	.217 - .296	1.378					
.500-13 1/2-13	RHS2-5013-138	.060 - .138	1.22	1.106*	.085	.685	1.004	.687
	RHS2-5013-217	.138 - .217	1.299					
	RHS2-5013-296	.217 - .296	1.378					

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HD ±0.38	HT ±0.1	D Max.	IL Max.	Hole Size +0.15
M5x0.8	RHS2-580-3.5	1.5 - 3.5	16.1	11	0.95	7.58	12.1	7.6
	RHS2-580-5.5	3.5 - 5.5	18.1					
	RHS2-580-7.5	5.5 - 7.5	20.1					
M6x1	RHS2-610-3.5	1.5 - 3.5	18.05	15.5	1.28	9.98	13	10
	RHS2-610-5.5	3.5 - 5.5	20.05					
	RHS2-610-7.5	5.5 - 7.5	22.05					
M8x1.25	RHS2-8125-3.5	1.5 - 3.5	20.03	21.77	1.58	13.48	15	13.5
	RHS2-8125-5.5	3.5 - 5.5	22.03					
	RHS2-8125-7.5	5.5 - 7.5	24.03					
M10x1.5	RHS2-1015-3.5	1.5 - 3.5	26.53	26	1.88	15.86	19.5	15.87
	RHS2-1015-5.5	3.5 - 5.5	28.53					
	RHS2-1015-7.5	5.5 - 7.5	30.53					
M12x1.75	RHS2-12175-3.5	1.5 - 3.5	31	28.1	2.16	17.4	25.5	17.45
	RHS2-12175-5.5	3.5 - 5.5	33					
	RHS2-12175-7.5	5.5 - 7.5	35					

RHS - Steel High Strength, Sealed, Round Body Rivet Nut, Closed End

- Rated for Class 10/Grade 8 thread proof load
- Underhead seal standard on closed end
- Seal does not compromise grip
- Fine threads available



All dimensions are in inches.

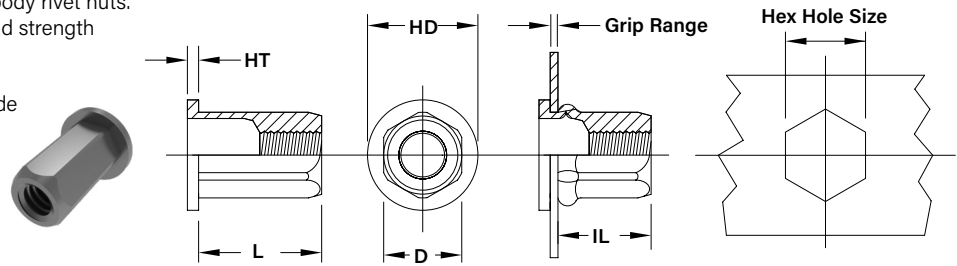
Thread Size	Part Number	Grip Range	LB ±.015	HDB ±.020 ±.025*	HTB ±.004	D Max.	ILB Max.	Hole Size +.006 -.000
.190-24 #10-24	RHS2-1024-138B	.060 - .138	.937	.548	.059	.298	.780	.299
	RHS2-1024-217B	.138 - .217	1.016					
	RHS2-1024-296B	.217 - .296	1.095					
.190-32 #10-32	RHS2-1032-138B	.060 - .138	0.937	.548	.059	.298	.780	.299
	RHS2-1032-217B	.138 - .217	1.016					
	RHS2-1032-296B	.217 - .296	1.095					
.250-20 1/4-20	RHS2-2520-138B	.060 - .138	1.045	.682	.059	.393	.846	.394
	RHS2-2520-217B	.138 - .217	1.124					
	RHS2-2520-296B	.217 - .296	1.203					
.313-18 5/16-18	RHS2-3118-138B	.060 - .138	1.163	.857*	.082	.531	.965	.531
	RHS2-3118-217B	.138 - .217	1.241					
	RHS2-3118-296B	.217 - .296	1.320					
.375-16 3/8-16	RHS2-3716-138B	.060 - .138	1.458	1.024*	.082	.624	1.181	.625
	RHS2-3716-217B	.138 - .217	1.537					
	RHS2-3716-296B	.217 - .296	1.615					
.438-16 7/16-20	RHS2-4320-138B	.060 - .138	1.673	1.106*	1.05	.685	1.457	.687
	RHS2-4320-217B	.138 - .217	1.752					
	RHS2-4320-296B	.217 - .296	1.831					
.500-13 1/2-13	RHS2-5013-138B	.060 - .138	1.673	1.106*	.105	.685	1.457	.687
	RHS2-5013-217B	.138 - .217	1.752					
	RHS2-5013-296B	.217 - .296	1.831					

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HDB ±0.50 ±0.64*	HTB ±0.1	D Max.	ILB Max.	Hole Size +0.15
M5x0.8	RHS2-580-3.5BS	1.5 - 3.5	23.8	13.93	1.5	7.58	19.8	7.6
	RHS2-580-5.5BS	3.5 - 5.5	25.8					
	RHS2-580-7.5BS	5.5 - 7.5	27.8					
M6x1	RHS2-610-3.5BS	1.5 - 3.5	26.55	17.33	1.5	9.98	21.5	10
	RHS2-610-5.5BS	3.5 - 5.5	28.55					
	RHS2-610-7.5BS	5.5 - 7.5	30.55					
M8x1.25	RHS2-8125-3.5BS	1.5 - 3.5	29.53	21.77*	2.08	13.48	24.5	13.5
	RHS2-8125-5.5BS	3.5 - 5.5	31.53					
	RHS2-8125-7.5BS	5.5 - 7.5	33.53					
M10x1.5	RHS2-1015-3.5BS	1.5 - 3.5	37.03	26*	2.08	15.86	30	15.87
	RHS2-1015-5.5BS	3.5 - 5.5	39.03					
	RHS2-1015-7.5BS	5.5 - 7.5	41.03					
M12x1.75	RHS2-12175-3.5BS	1.5 - 3.5	42.5	28.1*	2.66	17.4	37	17.45
	RHS2-12175-5.5BS	3.5 - 5.5	44.5					
	RHS2-12175-7.5BS	5.5 - 7.5	46.5					

FHL - Steel Full-Hex Body Rivet Nut, Large Flange

- The FHK/FHL series provides increased spin-out resistance over round body and half hex body rivet nuts.
- Proven to meet Class 8 and Grade 5 thread strength
- Inch body
- Inch and metric threads
- The FHL series has a large flange to provide increase in bearing surface area



All dimensions are in inches.

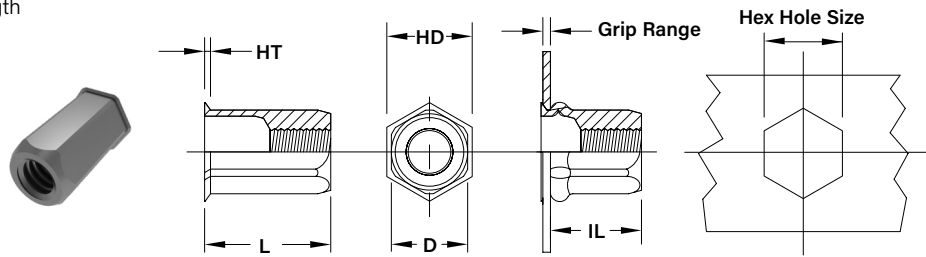
Thread Size	Part Number	Grip Range	L ±.015	HD (A/F) ±.014	HT ±.006	D (A/F) Max.	IL Ref.	Hole Size (A/F) +.004 -.000
.250-20 1/4-20	FHL2-2520-138	.039 - .138	.657	.511	.059	.354	.469	.354
	FHL2-2520-236	.138 - .236	.756					
	FHL2-2520-335	.236 - .335	.854					
.313-18 5/16-18	FHL2-3118-157	.031 - .157	.771	.630	.059	.432	.535	.433
	FHL2-3118-276	.157 - .276	.897					
	FHL2-3118-394	.276 - .394	1.020					
.375-16 3/8-16	FHL2-3716-177	.039 - .177	.910	.748	.079	.511	.689	.512
	FHL2-3716-295	.177 - .295	1.010					
	FHL2-3716-413	.295 - .413	1.140					

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HD (A/F) ±0.35	HT ±0.15	D (A/F) Max.	IL Ref.	Hole Size (A/F) +0.1
M6x1	FHL2-610-3.5	1.0 - 3.5	16.7	13	1.5	8.98	11.9	9
	FHL2-610-6.0	3.5 - 6.0	19.2					
	FHL2-610-8.5	6.0 - 8.5	21.7					
M8x1.25	FHL2-8125-4.0	0.8 - 4.0	19.6	16	1.5	10.98	13.6	11
	FHL2-8125-7.0	4.0 - 7.0	22.8					
	FHL2-8125-10.0	7.0 - 10.0	26					
M10x1.5	FHL2-1015-4.5	1.0 - 4.5	23.1	19	2	12.98	17.5	13
	FHL2-1015-7.5	4.5 - 7.5	25.6					
	FHL2-1015-10.5	7.5 - 10.5	29.1					

FHK - Steel Full-Hex Body Rivet Nut, Small Flange

- The FHK/FHL series provides increased spin-out resistance over round body and half hex body rivet nuts
- Meets Class 8 and Grade 5 thread strength
- Inch and metric threads
- The FHK series has a small flange for a near flush installation



All dimensions are in inches.

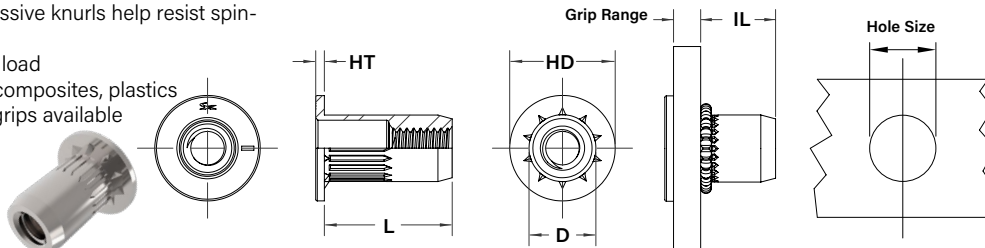
Thread Size	Part Number	Grip Range	L ±.015	HD (A/F) ±.010 ±.015* ±.025**	HT ±.005 ±.008*	D (A/F) Max.	IL Ref.	Hole Size (A/F) +.004 -.000
.250-20 1/4-20	FHK2-2520-138	.039 - .138	.673	.390	.016	.354	.469	.354
	FHK2-2520-236	.138 - .236	.772					
	FHK2-2520-335	.236 - .335	.870					
.313-18 5/16-18	FHK2-3118-157	.031 - .157	.787	.457	.016	.432	.535	.433
	FHK2-3118-276	.157 - .276	.913					
	FHK2-3118-394	.276 - .394	1.039					
.375-16 3/8-16	FHK2-3716-177	.039 - .177	.955	.559*	.025*	.511	.689	.512
	FHK2-3716-295	.177 - .295	1.053					
	FHK2-3716-413	.295 - .413	1.191					
.500-13 1/2-13	FHK2-5013-177	.039 - .177	1.215	.734**	.044*	.656	.866	.656

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HD (A/F) ±0.25 ±0.38* ±0.64**	HT ±0.13 ±0.18*	D (A/F) Max.	IL Ref.	Hole Size (A/F) +0.1
M6x1	FHK2-610-3.5	1.0 - 3.5	17.1	9.92	0.44	8.98	11.9	9
	FHK2-610-6.0	3.5 - 6.0	19.6					
	FHK2-610-8.5	6 - 8.5	22.1					
M8x1.25	FHK2-8125-4.0	0.8 - 4.0	20	11.6	0.41	10.98	13.6	11
	FHK2-8125-7.0	4.0 - 7.0	23.2					
	FHK2-8125-10.0	7.0 - 10.0	26.4					
M10x1.5	FHK2-1015-4.5	1.0 - 4.5	24.25	14.2*	0.64*	12.98	17.5	13
	FHK2-1015-7.5	4.5 - 7.5	26.75					
	FHK2-1015-10.5	7.5 - 10.5	30.25					
M12x1.75	FHK-12175-4.5	1.0 - 4.5	30.85	18.65**	1.12*	16.65	22	16.66

Optisert® Steel Wedged, Knurled Rivet Nut, Open End

- Best performing round body rivet nut
- Larger underhead wedges and aggressive knurls help resist spin-out
- Meets grade 8 / Class 5 thread proof load
- Excellent performance in aluminum, composites, plastics
- Inch and metric threads; fourth, fifth grips available
- Available in stainless steel
- Fine threads available



All dimensions are in inches.

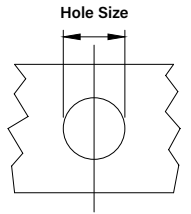
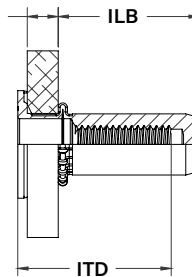
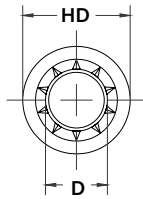
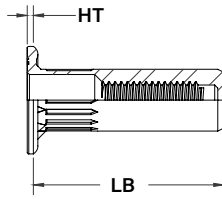
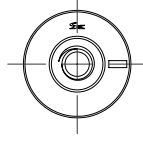
Thread Size	Part Number	Grip Range	L ±.015	HD ±.015 ±.025*	HT ±.003 ±.004*	D Max.	IL Max. Ref.*	Hole Size +.006 -.000
.164-32 #8-32	OPT2-0832-118	.059 - .118	.571	.433	.037	.298	.413	.300
	OPT2-0832-217	.118 - .217	.669					
	OPT2-0832-315	.217 - .315	.768					
.190-24 #10-24	OPT2-1024-118	.059 - .118	.571	.433	.037	.298	.413	.300
	OPT2-1024-217	.118 - .217	.669					
	OPT2-1024-315	.217 - .315	.768					
.190-32 #10-32	OPT2-1032-118	.059 - .118	.571	.433	.037	.298	.413	.300
	OPT2-1032-217	.118 - .217	.669					
	OPT2-1032-315	.217 - .315	.768					
.250-20 1/4-20	OPT2-2520-138	.059 - .138	.632	.610	.050	.393	.433	.394
	OPT2-2520-236	.138 - .236	.740					
	OPT2-2520-335	.236 - .335	.838					
.313-18 5/16-18	OPT2-3118-138	.059 - .138	.690	.857	.062	.531	.492	.532
	OPT2-3118-236	.138 - .236	.805					
	OPT2-3118-335	.236 - .335	.904					
.375-16 3/8-16	OPT2-3716-138	.059 - .138	.926	1.024*	.074	.624	.728	.625
	OPT2-3716-236	.138 - .236	1.025					
	OPT2-3716-335	.236 - .335	1.123					
.500-13 1/2-13	OPT2-5013-138	.059 - .138	1.083	1.106*	.085*	.685	.886*	.687
	OPT2-5013-236	.138 - .236	1.161					
	OPT2-5013-335	.236 - .335	1.240					

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HD ±0.38 ±0.64*	HT ±0.08 ±0.1*	D Max.	IL Max. Ref.*	Hole Size +0.15
M4x0.7	OPT2-470-3.0	1.5 - 3.0	14.5	11	0.95	7.58	10.5	7.6
	OPT2-470-5.5	3.0 - 5.5	17					
	OPT2-470-8.0	5.5 - 8.0	19.5					
M5x0.8	OPT2-580-3.0	1.5 - 3.0	14.5	11	0.95	7.58	10.5	7.6
	OPT2-580-5.5	3.0 - 5.5	17					
	OPT2-580-8.0	5.5 - 8.0	19.5					
M6x1	OPT2-610-3.5	1.5 - 3.5	16.05	15.5	1.28	9.98	11	10
	OPT2-610-6.0	3.5 - 6.0	18.79					
	OPT2-610-8.5	6.0 - 8.5	21.29					
M8x1.25	OPT2-8125-3.5	1.5 - 3.5	17.53	21.77	1.58	13.48	12.5	13.5
	OPT2-8125-6.0	3.5 - 6.0	20.45					
	OPT2-8125-8.0	6.0 - 8.5	22.95					
M10x1.5	OPT2-1015-3.5	1.5 - 3.5	23.53	26*	1.88	15.85	18.5	15.87
	OPT2-1015-6.0	3.5 - 6.0	26.03					
	OPT2-1015-8.5	6.0 - 8.5	28.53					
M12x1.75	OPT2-12175-3.5	1.5 - 3.5	27.5	28.1*	2.16*	17.4	22.5*	17.45
	OPT2-12175-6.0	3.5 - 6.0	29.5					
	OPT2-12175-8.5	6.0 - 8.5	31.5					

Optisert® Steel Wedged, Knurled Rivet Nut, Closed End

- Underhead seal standard on Optisert Closed End
- Closed end seal does not compromise performance
- Excellent performance in aluminum, composites, plastics
- Inch and metric threads; fourth, fifth grips available
- Fine threads available



All dimensions are in inches.

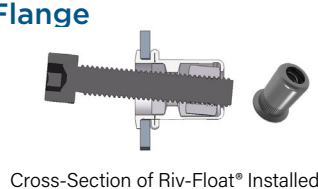
Thread Size	Part Number	Grip Range	LB ±.015	HD ±.020 ±.025*	HT ±.004	D Max.	ILB Max.	ITD Min.	Hole Size +.006 -.000
.164-32 #8-32	OPT2-0832-118BS	.059 - .118	1.108	.548	.059	.298	.951	.787	.300
	OPT2-0832-217BS	.118 - .217	1.108				.852	.787	
	OPT2-0832-315BS	.217 - .315	1.305				.951	.984	
.190-24 #10-24	OPT2-1024-118BS	.059 - .118	1.108	.548	.059	.298	.951	.787	.300
	OPT2-1024-217BS	.118 - .217	1.108				.852	.787	
	OPT2-1024-315BS	.217 - .315	1.305				.951	.984	
.190-32 #10-32	OPT2-1032-118BS	.059 - .118	1.108	.548	.059	.298	.951	.787	.300
	OPT2-1032-217BS	.118 - .217	1.108				.852	.787	
	OPT2-1032-315BS	.217 - .315	1.305				.951	.984	
.250-20 1/4-20	OPT2-2520-138BS	.059 - .138	1.190	.682	.059	.393	.994	.748	.394
	OPT2-2520-236BS	.138 - .236	1.190				.896	.748	
	OPT2-2520-335BS	.236 - .335	1.395				.994	.945	
.313-18 5/16-18	OPT2-3118-138BS	.059 - .138	1.190	.857*	.082	.531	.994	1.063	.531
	OPT2-3118-236BS	.138 - .236	1.190				.896	1.063	
	OPT2-3118-335BS	.236 - .335	1.395				.994	1.260	

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	LB ±0.38	HD ±0.5 ±0.64*	HT ±0.1	D Max.	ILB Max.	ITD Min.	Hole Size +0.15
M4x0.7	OPT2-470-3.0BS	1.5 - 3.0	28.15	13.93	1.5	7.58	24.15	20	7.6
	OPT2-470-5.5BS	3.0 - 5.5	28.15				21.65	20	
	OPT2-470-8.0BS	5.5 - 8.0	33.15				24.15	20	
M5x0.8	OPT2-580-3.0BS	1.5 - 3.0	28.15	13.93	1.5	7.58	24.15	20	7.6
	OPT2-580-5.5BS	3.0 - 5.5	28.15				21.65	20	
	OPT2-580-8.0BS	5.5 - 8.0	33.15				24.15	20	
M6x1	OPT2-610-3.5BS	1.5 - 3.5	30.23	17.33	1.5	9.98	25.25	19	10
	OPT2-610-6.0BS	3.5 - 6.0	30.23				22.75	19	
	OPT2-610-8.5BS	6.0 - 8.5	35.43				25.25	19	
M8x1.25	OPT2-8125-3.5BS	1.5 - 3.5	35.31	21.77*	2.08	13.48	30	27	13.5
	OPT2-8125-6.0BS	3.5 - 6.0	35.31				27.5	27	
	OPT2-8125-8.5BS	6.0 - 8.5	40.61				30	27	
M10x1.5	OPT2-1015-3.5BS	1.5 - 3.5	35.31	26*	2.08	15.85	29	20	15.87
	OPT2-1015-6.0BS	3.5 - 6.0	35.31					20	
	OPT2-1015-8.5BS	6.0 - 8.5	40.61					20	

RIV-FLOAT® Floating Rivet Nut, Large and Small Flange

- Accounts for tolerance stack up in joint design and misalignment during assembly of the joint
- Floating nut aligns to drive angle of screw helping to prevent cross threading and spin-out
- Allows for installation in post painted or powder coat applications where riveted nut plates or cage nuts are typically used
- RoHS compliant Zinc electroplate to 8µm with trivalent chromate - 96/240 hrs (WR/RR)
- Designed with higher thread strength than regular rivet nuts.
- Mechanically locked Riv-Float® is available with prevailing torque feature

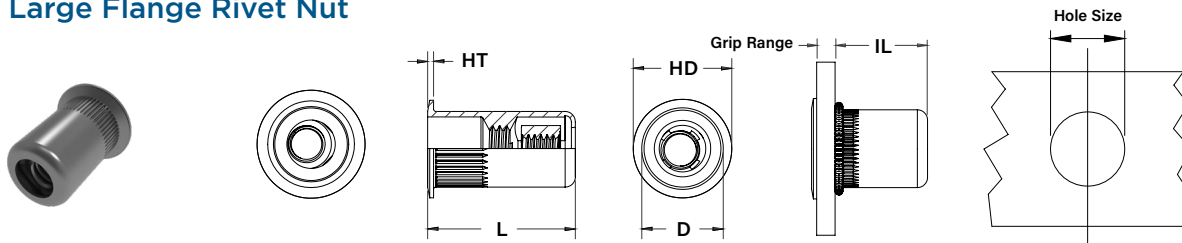


Cross-Section of Riv-Float® Installed



Standard Rivet Nut Installed

RFL - Steel Large Flange Rivet Nut



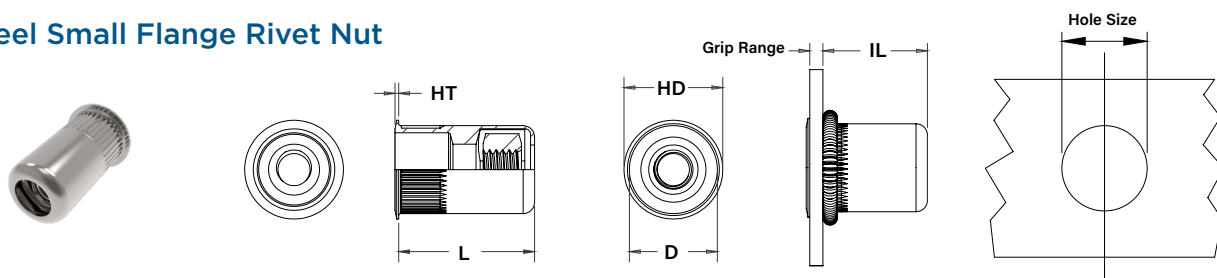
All dimensions are in inches.

Thread Size	Part Number	Radial Deflection	Grip Range	L ±.0215	HD ±.010	HT ±.003	D Max.	IL Ref.	Hole Size +.006 -.000
.138-32 #6-32	RFL2-0632-130	.020	.027 - .130	.7195	.500	.030	.390	.522	.391
.164-32 #8-32	RFL2-0832-130	.020	.027 - .130	.7195	.500	.030	.390	.522	.391
.190-32 #10-32	RFL2-1032-150	.015	.027 - .150	.7195	.500	.030	.390	.522	.391
.250-20 1/4-20	RFL2-2520-150	.030	.027 - .150	.8190	.500	.030	.530	.630	.531

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Radial Deflection	Grip Range	L ±0.55	HD ±0.25	HT ±0.08	D Max.	IL Ref.	Hole Size +0.15
M4x0.7	RFL2-470-3.3	0.51	0.7 - 3.3	18.28	12.7	0.76	9.91	13.25	10
M5x0.8	RFL2-580-3.8	0.38	0.7 - 3.8	18.28	12.7	0.76	9.91	13.25	10
M6x1	RFL2-610-3.8	0.76	0.7 - 3.8	20.8	17.4	0.89	13.46	16	13.5

RFK - Steel Small Flange Rivet Nut



All dimensions are in inches.

Thread Size	Part Number	Radial Deflection	Grip Range	L ±.0215	HD ±.010	HT ±.002	D Max.	IL Ref.	Hole Size +.006 -.000
.138-32 #6-32	RFK2-0632-130	.020	.027 - .130	.7195	.455	.022	.390	.522	.391
.164-32 #8-32	RFK2-0832-130	.020	.027 - .130	.7195	.455	.022	.390	.522	.391
.190-32 #10-32	RFK2-1032-150	.015	.027 - .150	.7195	.455	.022	.390	.522	.391
.250-20 1/4-20	RFK2-2520-150	.030	.027 - .150	.8190	.595	.022	.530	.630	.531

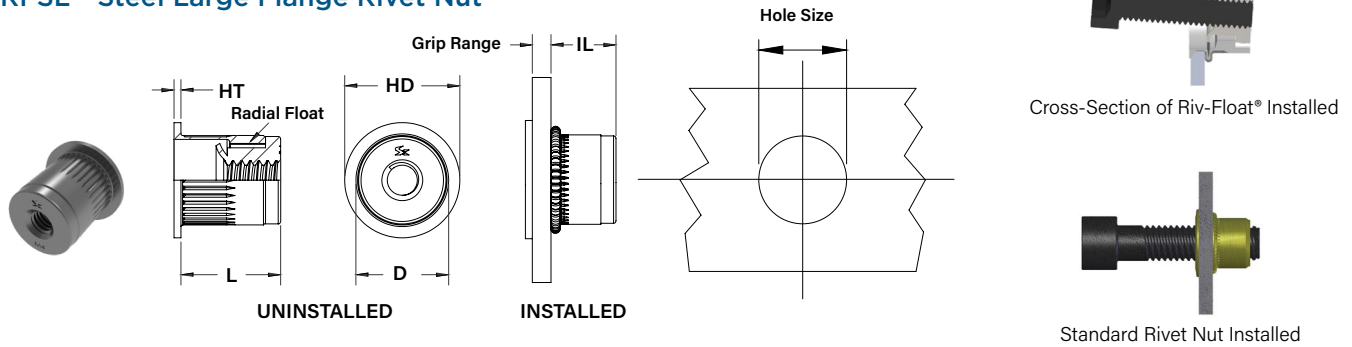
All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Radial Deflection	Grip Range	L ±0.55	HD ±0.25	HT ±0.05	D Max.	IL Ref.	Hole Size +0.15
M4x0.7	RFK2-470-3.3	0.51	0.7 - 3.3	18.28	11.56	0.55	9.91	13.25	10
M5x0.8	RFK2-580-3.8	0.38	0.7 - 3.8	18.28	11.56	0.55	9.91	13.25	10
M6x1	RFK2-610-3.8	0.76	0.7 - 3.8	20.8	15.11	0.55	13.46	16	13.5

RIV-FLOAT® Floating Rivet Nut, Large and Small Flange, Short Series

- The RIV-FLOAT® - Short series provides easy, accurate, and fast attachment of components in off-center applications with a shorter body
- Shorter body to accommodate smaller backside clearance
- Inch and metric threads

RFSL - Steel Large Flange Rivet Nut



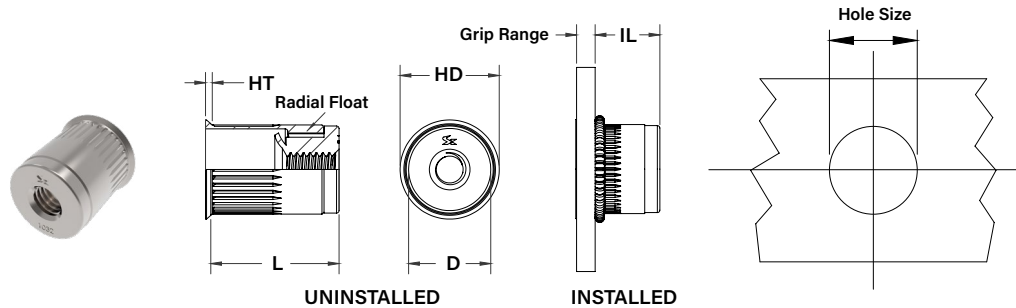
All dimensions are in inches.

Thread Size	Part Number	Radial Deflection	Grip Range	L ±.010	HD ±.015	HT ±.003	D Max.	IL Ref.	Hole Size +.006 -.000
.164-32 #8-32	RFSL2-0832-100	.020	.020 - .100	.406	.555	.033	.431	.246	.433
.190-24 10-24	RFSL2-1024-100	.020	.020 - .100	.406	.555	.033	.431	.246	.433
.190-32 #10-32	RFSL2-1032-100	.015	.020 - .100	.406	.555	.033	.431	.246	.433

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Radial Deflection	Grip Range	L ±0.55	HD ±0.25	HT ±0.08	D Max.	IL Ref.	Hole Size +0.15
M4x0.7	RFSL2-470-2.5	0.5	0.5 - 2.5	10.3	14.1	0.85	10.95	6.25	11
M5x0.8	RFSL2-580-2.5	0.5	0.5 - 2.5	10.3	14.1	0.85	10.95	6.25	11

RFSK - Steel Small Flange Rivet Nut



All dimensions are in inches.

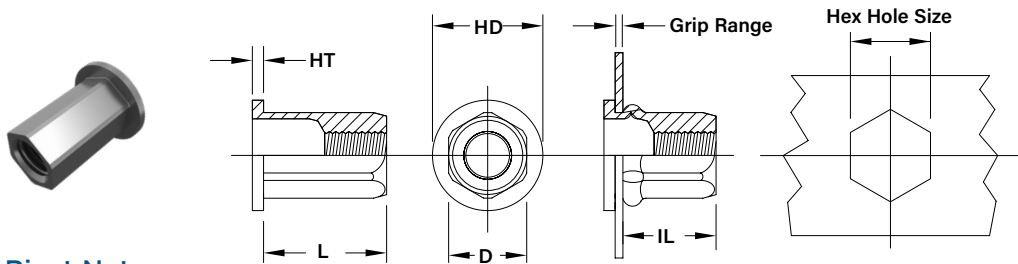
Thread Size	Part Number	Radial Deflection	Grip Range	L ±.010	HD ±.012	HT ±.003	D Max.	IL Ref.	Hole Size +.006 -.000
.164-32 #8-32	RFSK2-0832-100	.020	.020 - .100	.394	.480	.025	.431	.246	.433
.190-24 10-24	RFSK2-1024-100	.020	.020 - .100	.394	.480	.025	.431	.246	.433
.190-32 #10-32	RFSK2-1032-100	.020	.020 - .100	.394	.480	.025	.431	.246	.433

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Radial Deflection	Grip Range	L ±0.25	HD ±0.3	HT ±0.07	D Max.	IL Ref.	Hole Size +0.15
M4x0.7	RFSK2-470-2.5	0.5	0.5 - 2.5	10	12.2	0.63	10.95	6.25	11
M5x0.8	RFSK2-580-2.5	0.5	0.5 - 2.5	10	12.2	0.63	10.95	6.25	11

Large Size Rivet Nut Series, Large Flange

- Available in sizes up to M16 (hex body) and 3/4"-10 (round body)
- Round Body (LRGR Series) and Full Hex Body (LRGH Series) styles
- Heavy duty
- For applications in need of large threads in high clamp, high vibration environments



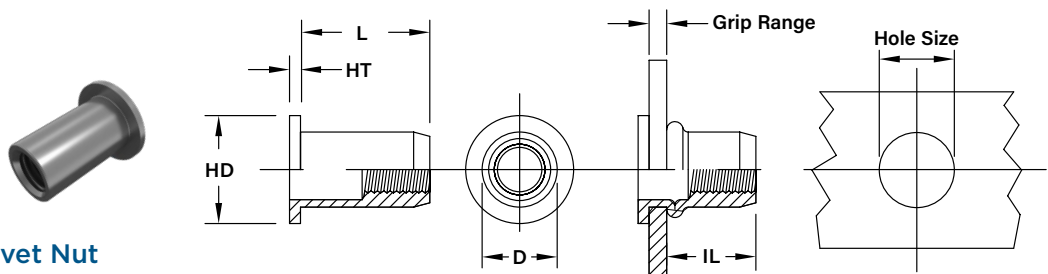
LRGH - Full-Hex Body Rivet Nut

All dimensions are in inches.

Thread Size	Part Number	Grip Range	L ±.015	HD ±.025	HT ±.004	D (A/F) Max.	IL Ref.	Hole Size (A/F) +.010 -.000
.500-13 1/2-13	LRGH2-5013-177	.040 - .177	1.181	.959	.085	.656	.866	.656
.625-11 5/8-11	LRGH2-6211-200	.080 - .200	1.260	1.260	.118	.826	.965	.824

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HD ±0.64	HT ±0.1	D (A/F) Max.	IL Ref.	Hole Size +0.25
M12x1.75	LRGH2-12175-4.5	1.0 - 4.5	30	24.36	2.16	16.65	22	16.66
M16x2.0	LRGH2-1620-5.0	2.0 - 5.0	32	32	3	20.98	24.5	21



LRGR - Round Body Rivet Nut

All dimensions are in inches.

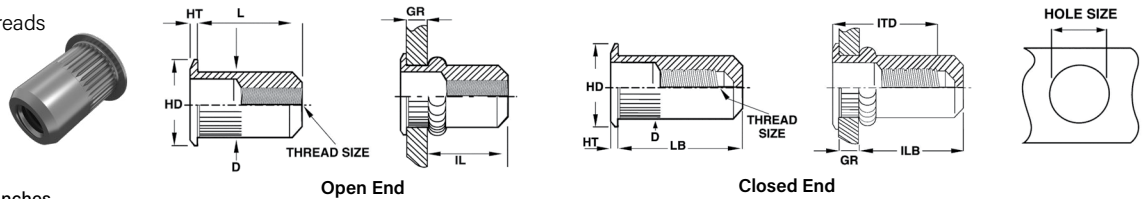
Thread Size	Part Number	Grip Range	L ±.015	HD ±.025	HT ±.004	D Max.	IL Ref.	Hole Size +.010 -.000
.500-13 1/2-13	LRGR2-5013-150	.050 - .150	1.260	.945	.085	.656	.984	.656
.625-11 5/8-11	LRGR2-6211-200	.080 - .200	1.428	1.181	.098	.826	1.142	.827
.750-10 3/4-10	LRGR2-7510-250	.048 - .250	1.210	1.235	.118	.906	.878	.907

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HD ±0.64	HT ±0.1	D Max.	IL Ref.	Hole Size +0.25
M12x1.75	LRGR2-12175-3.8	1.27 - 3.8	32	24	2.16	16.65	25	16.66
M16x2.0	LRGR2-1620-5.0	2.0 - 5.0	36.27	30	2.5	20.98	29	21

CAL - Steel Round Body, Knurled Rivet Nut, Large Flange

- The CAL series has a large flange to provide increased strength in punched and drilled holes
- Knurled body provides a higher resistance to spin-out when installed in soft materials
- Available in steel, stainless steel, aluminum, brass, and Monel
- Inch body
- Inch and metric threads



All dimensions are in inches.

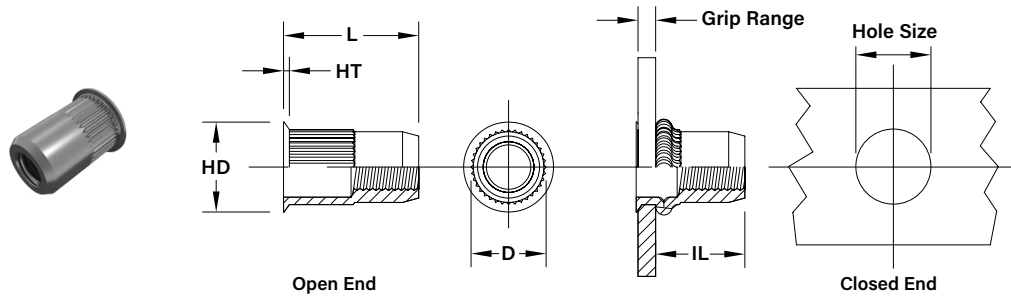
Thread Size	Part Number	Grip Range	L ±.015	HD ±.010 ±.025*	HT ±.003	D Max.	IL Ref.	LB ±.015	ILB Max.	ITD Ref.	Hole Size +.006 -.000
.138-32 #6-32	CAL2-0632-080	.020 - .080	.420	.390	.030	.265	.305	.740	.640	.610	.266
	CAL2-0632-130	.080 - .130							.580	.670	
.164-32 #8-32	CAL2-0832-080	.020 - .080	.420	.390	.030	.265	.305	.740	.640	.610	.266
	CAL2-0832-130	.080 - .130	.470						.580		
.190-24 #10-24	CAL2-1024-130	.020 - .130	.475	.415	.030	.296	.315	.990	.845	.730	.297
	CAL2-1024-225	.130 - .225	.585						.735	.0840	
.190-32 #10-32	CAL2-1032-130	.020 - .130	.475	.415	.030	.296	.315	.990	.845	.730	.297
	CAL2-1032-225	.130 - .225	.585						.735	.840	
.250-20 1/4-20	CAL2-2520-165	.027 - .165	.580	.500	.030	.390	.380	1.190	1.005	.895	.391
	CAL2-2520-260	.165 - .260	.680						.905	1.035	
.250-28 1/4-28	CAL2-2528-165	.027 - .165	.580	.500	.030	.390	.380	1.190	1.005	.895	.391
	CAL2-2528-260	.165 - .260	.680						.905	1.035	
.313-18 5/16-18	CAL2-3118-150	.027 - .150	.690	.685*	.035	.530	.470	1.390	1.175	.995	.531
	CAL2-3118-312	.150 - .312	.805				.425		1.025	1.120	
.313-24 5/16-24	CAL2-3124-150	.027 - .150	.690	.685*	.035	.530	.470	1.390	1.175	.995	.531
	CAL2-3124-312	.150 - .312	.805				.425		1.025	1.120	
.375-16 3/8-16	CAL2-3716-150	.027 - .150	.690	.685*	.035	.530	.470	1.390	1.175	.995	.531
	CAL2-3716-312	.150 - .312	.805				.425		1.025	1.120	
.375-24 3/8-24	CAL2-3724-150	.027 - .150	.690	.685*	.035	.530	.470	1.390	1.175	.995	.531
	CAL2-3724-312	.150 - .312	.805				.425		1.025	1.120	
.500-13 1/2-13	CAL2-5013-200	.063 - .200	1.150	.865*	.047	.685	.850	2.365	2.070	1.505	.688
	CAL2-5013-350	.200 - .350	1.300						1.920		

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HD ±0.25 ±0.64*	HT ±0.08	D Max.	IL Ref.	LB ±0.38	ILB Max.	ITD Ref.	Hole Size +0.15
M4x0.7	CAL2-470-2.0	0.5 - 2.0	10.68	9.91	0.76	6.73	7.75	18.8	16.26	15.49	6.75
	CAL2-470-3.3	2 - 3.3	11.94						14.73	17.02	
M5x0.8	CAL2-580-3.3	0.5 - 3.3	12.07	10.54	0.76	7.52	8	25.15	21.46	18.54	7.6
	CAL2-580-5.7	3.3 - 5.7	14.86						18.67	21.34	
M6x1	CAL2-610-4.2	0.7 - 4.2	14.73	12.7	0.76	9.91	9.65	30.23	25.53	22.73	10
	CAL2-610-6.6	4.2 - 6.6	17.27						22.99	26.29	
M8x1.25	CAL2-8125-3.8	0.7 - 3.8	17.53	17.4*	0.89	13.46	11.94	35.31	29.85	25.27	13.5
	CAL2-8125-7.9	3.8 - 7.9	20.45				10.8		26.04	28.45	
M10x1.5	CAL2-1015-3.8	0.7 - 3.8	17.53	17.4*	0.89	13.46	11.94	35.31	29.85	25.27	13.5
	CAL2-1015-7.9	3.8 - 7.9	20.45				10.8		26.04	28.45	
M12x1.75	CAL2-12175-5.1	1.6 - 5.1	29.21	21.97*	1.19	17.4	21.59	60.07	52.58	38.23	17.45
	CAL2-12175-8.9	5.1 - 8.9	33.02						48.77		

CAK - Steel Round Body, Knurled Rivet Nut, Small Flange

- The CAK series has a small flange for a near flush installation
- Knurled body provides a higher resistance to spin-out when installed in soft materials
- Available in steel, stainless steel, aluminum, brass, and monel
- Inch body
- Inch and metric threads



All dimensions are in inches.

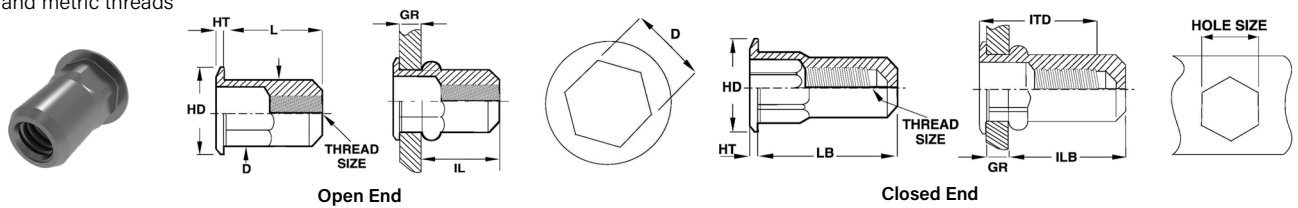
Thread Size	Part Number	Grip Range	L ±.015	HD ±.010 ±.015*	HT ±.002	D Max.	IL Max.	LB ±.015	ILB Max.	ITD Ref.	Hole Size +.006 -.000
.138-32 #6-32	CAK2-0632-080	.020 - .080	.420	.310	.019	.265	.305	.0740	.640	.610	.266
	CAK2-0632-130	.080 - .130	.470						.580	.670	
.164-32 #8-32	CAK2-0832-080	.020 - .080	.420	.310	.019	.265	.305	.0740	.640	.610	.266
	CAK2-0832-130	.080 - .130	.470						.580	.670	
.190-24 #10-24	CAK2-1024-130	.020 - .130	.475	.340	.019	.296	.315	.0990	.845	.730	.297
	CAK2-1024-225	.130 - .225	.585						.735	.840	
.190-32 #10-32	CAK2-1032-130	.020 - .130	.475	.340	.019	.296	.315	.0990	.845	.730	.297
	CAK2-1032-225	.130 - .225	.585						.735	.840	
.250-20 1/4-20	CAK2-2520-165	.027 - .165	.580	.455	.022	.390	.380	1.190	1.005	.895	.391
	CAK2-2520-260	.165 - .260	.680						.905	1.035	
.250-28 1/4-28	CAK2-2528-165	.027 - .165	.580	.455	.022	.390	.380	1.190	1.005	.895	.391
	CAK2-2528-260	.165 - .260	.680						.905	1.035	
.313-18 5/16-18	CAK2-3118-150	.027 - .150	.690	.595*	.022	.530	.470	1.390	1.175	.995	.531
	CAK2-3118-312	.150 - .312	.805						1.025	1.120	
.313-24 5/16-24	CAK2-3124-150	.027 - .150	.690	.595*	.0022	.530	.470	1.390	1.175	.995	.531
	CAK2-3124-312	.150 - .312	.805						1.025	1.120	
.375-16 3/8-16	CAK2-3716-150	.027 - .150	.690	.595*	.022	.530	.470	1.390	1.175	.995	.531
	CAK2-3716-312	.150 - .312	.805						1.025	1.120	
.375-24 3/8-24	CAK2-3724-150	.027 - .150	.690	.595*	.022	.530	.470	1.390	1.175	.995	.531
	CAK2-3724-312	.150 - .312	.805						1.025	1.120	

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HD ±0.25 ±0.38*	HT ±0.05	D Max.	IL Max.	LB ±0.38	ILB Max.	ITD Ref.	Hole Size +0.15
M4x0.7	CAK2-470-2.0	0.5 - 2.0	10.67	7.87	0.48	6.73	7.75	18.8	16.26	15.49	6.75
	CAK2-470-3.3	2.0 - 3.3	11.94						14.73	17.02	
M5x0.8	CAK2-580-3.3	0.5 - 3.3	12.07	8.64	0.48	7.52	8	25.15	21.46	18.54	7.6
	CAK2-580-5.7	3.3 - 5.7	14.86						18.67	21.34	
M6x1	CAK2-610-4.2	0.7 - 4.2	14.73	11.56	0.55	9.91	9.65	30.23	25.53	22.73	10
	CAK2-610-6.6	4.2 - 6.6	17.27						22.99	26.29	
M8x1.25	CAK2-8125-3.8	0.7 - 3.8	17.53	15.11*	0.55	13.46	11.94	35.31	29.85	25.27	13.5
	CAK2-8125-7.9	3.8 - 7.9	20.45				10.8		26.04	28.45	
M10x1.5	CAK2-1015-3.8	0.7 - 3.8	17.53	15.11*	0.55	13.46	11.94	35.31	29.85	25.27	13.5
	CAK2-1015-7.9	3.8 - 7.9	20.45				10.8		26.04	28.45	

CAH - Steel Half-Hex Body Rivet Nut, Large Flange

- The CAH series offers a semi hex body for excellent resistance to spin-out in the hole
- Available in steel, stainless steel, aluminum, brass, and monel
- Inch body
- Inch and metric threads



All dimensions are in inches.

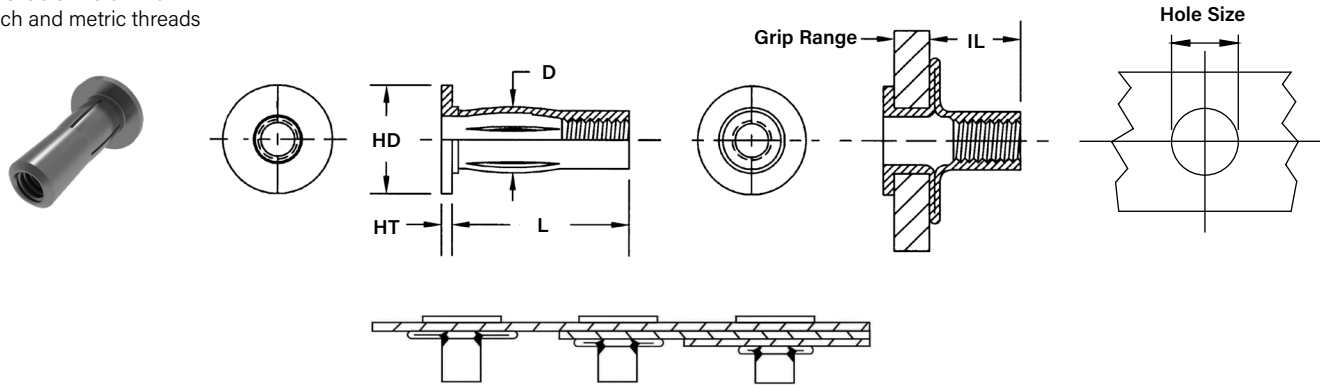
Thread Size	Part Number	Grip Range	L ±.015	HD ±.010 ±.025*	HT ±.003	D (A/F) Max.	IL Max.	LB ±.015	ILB Max.	ITD Ref.	Hole Size +.004 -.000
.138-32 #6-32	CAH2-0632-080	.020 - .080	.385	.375	.027	.249	.295	.740	.640	.575	.250
	CAH2-0632-130	.080 - .130	.435						.580	.640	
.164-32 #8-32	CAH2-0832-080	.020 - .080	.385	.375	.027	.249	.295	.740	.640	.575	.250
	CAH2-0832-130	.080 - .130	.435						.580	.640	
.190-24 #10-24	CAH2-1024-130	.020 - .130	.435	.390	.027	.280	.275	1.030	.845	.695	.281
	CAH2-1024-225	.130 - .225	.535						.735	.805	
.190-32 #10-32	CAH2-1032-130	.020 - .130	.435	.390	.027	.280	.275	1.030	.845	.695	.281
	CAH2-1032-225	.130 - .225	.535						.735	.805	
.250-20 1/4-20	CAH2-2520-165	.027 - .165	.585	.510	.030	.374	.400	1.190	1.015	.945	.375
	CAH2-2520-260	.165 - .260	.685						.915	1.085	
.250-28 1/4-28	CAH2-2528-165	.027 - .165	.585	.510	.030	.374	.400	1.190	1.015	.945	.375
	CAH2-2528-260	.165 - .260	.685						.915	1.085	
.313-18 5/16-18	CAH2-3118-150	.027 - .150	.685	.655*	.035	.499	.530	1.445	1.235	1.045	.500
	CAH2-3118-312	.150 - .312	.845						1.220	1.170	
.313-24 5/16-24	CAH2-3124-150	.027 - .150	.685	.655*	.035	.499	.530	1.445	1.235	1.045	.500
	CAH2-3124-312	.150 - .312	.845						1.220	1.170	
.375-16 3/8-16	CAH2-3716-150	.027 - .150	.685	.655*	.035	.499	.530	1.445	1.235	1.045	.500
	CAH2-3716-312	.150 - .312	.845						1.220	1.170	
.375-24 3/8-24	CAH2-3724-150	.027 - .150	.685	.655*	.035	.499	.530	1.445	1.235	1.045	.500
	CAH2-3724-312	.150 - .312	.845						1.220	1.170	

All dimensions are in millimeters.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HD ±0.25 ±0.64*	HT ±0.08	D (A/F) Max.	IL Max.	LB ±0.38	ILB Max.	ITD Ref.	Hole Size +0.1
M4x0.7	CAH2-470-2.0	0.5 - 2.0	9.78	9.53	0.68	6.35	7.49	18.8	16.26	14.61	6.35
	CAH2-470-3.3	2.0 - 3.3	11.05	9.53					14.73	16.26	
M5x0.8	CAH2-580-3.3	0.5 - 3.3	11.05	9.91	0.68	7.1	6.99	26.16	21.46	17.65	7.14
	CAH2-580-5.7	3.3 - 5.7	13.59	9.91					18.67	20.45	
M6x1	CAH2-610-4.2	0.7 - 4.2	14.86	12.96	0.76	9.5	10.16	30.23	25.78	24	9.53
	CAH2-610-6.6	4.2 - 6.6	17.4	12.96					23.24	27.56	
M8x1.25	CAH2-8125-3.8	0.7 - 3.8	17.4	16.64*	0.89	12.7	13.46	36.7	31.37	26.54	12.7
	CAH2-8125-7.9	3.8 - 7.9	21.46	16.64*					30.99	29.72	
M10x1.5	CAH2-1015-3.8	0.7 - 3.8	17.4	16.64*	0.89	12.7	13.46	36.7	31.37	26.54	12.7
	CAH2-1015-7.9	3.8 - 7.9	21.46	16.64*					30.99	29.72	

CPB - Prebulbed, Slotted Body Rivet Nut

- Excellent performance to resist pull out
- Great in softer materials like plastics and composites
- Prebulbed body for ease of installation (less force)
- Available in aluminum
- Inch and metric threads



Installs into single, variable, or multiple thickness materials.

All dimensions are in inches.

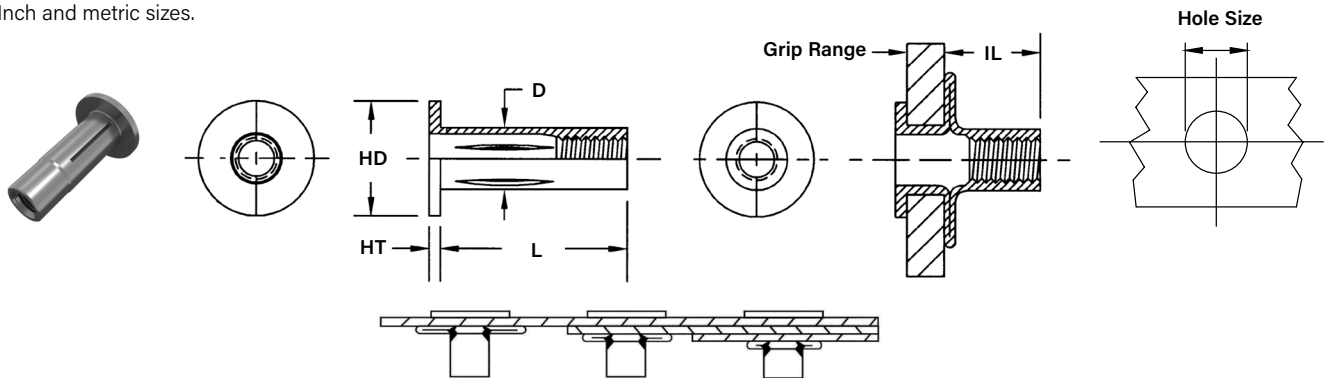
Thread Size	Part Number	Grip Range	L ±.015	HD		HT ±.005	D Max.	IL Ref.	Hole Size +.006 -.000
				Min.	Max.				
.190-24 #10-24	CPB2-1024-175	.020 - .175	.828	.490	.510	.038	.329	.410	.336
	CPB2-1024-320	.175 - .320	.921			.038			
.190-32 #10-32	CPB2-1032-175	.020 - .175	.828	.490	.510	.038	.329	.410	.336
	CPB2-1032-320	.175 - .320	.921			.038			
.250-20 1/4-20	CPB2-2520-280	.020 - .280	1.000	.610	.645	.059	.382	.505	.390
	CPB2-2520-500	.280 - .500	1.234			.059			
.313-18 5/16-18	CPB2-3118-280	.020 - .280	1.141	.740	.770	.062	.495	.570	.500
	CPB2-3118-500	.280 - .500	1.375			.062			

All dimensions are in inches.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HD		HT ±0.13	D Max.	IL Ref.	Hole Size +0.15
				Min.	Max.				
M5x0.8	CPB2-580-4.45	0.5 - 4.45	21.03	12.45	12.95	0.96	8.35	10	8.55
	CPB2-580-8.1	4.45 - 8.1	23.8						
M6x1	CPB2-610-7.1	0.5 - 7.1	25.4	15.5	16.38	1.5	9.7	12.8	10
	CPB2-610-12.7	7.1 - 12.7	31.32						
M8x1.25	CPB2-8125-7.1	0.5 - 7.1	28.95	18.8	19.65	1.57	12.57	14.48	12.7
	CPB2-8125-12.7	7.1 - 12.7	34.9						

CPN - Straight Shank, Slotted Body Rivet Nut

- Designed for superior pullout resistance in plastics and thin sheet metal
- Straight shank design uses smaller mounting holes
- Available in aluminum
- Inch and metric sizes.



Installs into single, variable, or multiple thickness materials.

All dimensions are in inches.

Thread Size	Part Number	Grip Range	L ±.015	HD		HT ±.005	D Max.	IL Ref.	Hole Size +.006 -.000
				Min.	Max.				
.190-24 #10-24	CPN2-1024-175	.020 - .175	.781	.490	.510	.038	.272	.425	.273
	CPN2-1024-320	.175 - .320	.921			.038			
.190-32 #10-32	CPN2-1032-175	.020 - .175	.781	.490	.510	.038	.272	.4125	.273
	CPN2-1032-320	.175 - .320	.921			.038			
.250-20 1/4-20	CPN2-2520-280	.020 - .280	1.000	.610	.645	.059	.346	.505	.347
	CPN2-2520-500	.280 - .500	1.234			.059			
.313-18 5/16-18	CPN2-3118-280	.020 - .280	1.141	.740	.770	.062	.437	.570	.438
	CPN2-3118-500	.280 - .500	1.375			.062			

All dimensions are in inches.

Thread Size x Pitch	Part Number	Grip Range	L ±0.38	HD		HT ±0.13	D Max.	IL Ref.	Hole Size +0.15
				Min.	Max.				
M5x0.8	CPN2-580-4.45	0.5 - 4.45	21.03	12.45	12.95	0.96	7.47	9.9	7.48
	CPN2-580-8.1	4.45 - 8.1	23.8						
M6x1	CPN2-610-7.1	0.5 - 7.1	25.4	15.5	16.38	1.5	8.79	12.8	8.8
	CPN2-610-12.7	7.1 - 12.7	31.32						
M8x1.25	CPN2-8125-7.1	0.5 - 7.1	28.95	18.8	19.65	1.57	11.1	14.48	11.11
	CPN2-8125-12.7	7.1 - 12.7	34.9						

Material And Finish Specifications For Standard Line Rivet Nuts

Code	Material	Threads	Standard Finish
1	304 Stainless Steel	Internal, ASME B1.1, 2B / ASME B1.13M, 6H	None
2	Steel C1010/C1022	Internal, ASME B1.1, 2B / ASME B1.13M, 6H	Zinc plated - clear trivalent chromate per Sherex SFS-01-0012
3	5056 Aluminum	Internal, ASME B1.1, 2B / ASME B1.13M, 6H	None
4	400 Monel	Internal, ASME B1.1, 2B / ASME B1.13M, 6H	Plain or Tin
5	260 Brass	Internal, ASME B1.1, 2B / ASME B1.13M, 6H	Plain or Tin Zinc

Rivet Nut Studs - Customized Rivet Nut Studs

A Rivet Nut Stud is a 2-piece fastener combining a rivet nut and a screw, ideal for thin sheet metal applications with blind installation requirements. Sherex Rivet Nut Studs are available in a variety of sizes, styles, materials, and finishes. Contact us with your thread size, length, and installation material thickness requirements.

Rivet nut studs work the same way as blind rivet nuts, and are installed in a similar way with standard rivet nut tooling, but the fastener already has the stud installed. This saves installers the step of putting in the through bolt.

Like most blind rivet nuts, rivet nut studs are great replacements for weld nuts and are an ideal fastener when installation is only possible from one side of the workpiece, or where access to the backside is not possible.

Sherex has the ability to make a variety of different styles of rivet nut studs: round body, knurled, hexagonal body, or even large flanged.

To create a custom rivet nut stud, the following information is required:

- **Installed Stud Length:** Taking into account material thickness (grip) & stud head thickness.
- **Material Thickness**
- **Stud Strength:** Class 8.8/9.8/10.9; Gr 5; Gr 8

Please contact Sherex by PEM if interested in using rivet nut studs for your application and if we have rivet nut studs in stock. Most rivet nut studs are made specific to the application. An engineer will help to design and offer a solution that will be beneficial for your application.

Features and Benefits

- Simple, blind installation
- Reduces processing cost of weld studs
- Eliminates risk of weld spatter and material distortion
- Eliminates cost of post installation paint process
- Can be used as a hanging point or centering pin
- Great for use in wire harnessing



Specialty Fastener Solutions - Custom Rivet Nuts

Sherex's application and design engineers can create custom, application-specific solutions that solve difficult fastening problems. We work with our customers to understand the application requirements and manufacturing scenario, and design high performance fasteners at the lowest-total-installed cost. We are available for line walks and to collaborate with your engineering and manufacturing teams to understand the needs of the application. Contact us today to learn more. Here are some recent examples of custom products created by Sherex:

This rivet nut was designed with a "compression limiting" collar, to act as a spacer between two assembled components. This custom 'compression limiting rivet nut' is used in an automotive application.



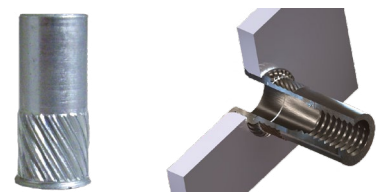
This rivet nut was developed for applications that may need to safely discharge electrical current. This grounding rivet nut comes with an underhead seal, and is used in battery tray applications in the automotive industry.



Designed with an extra-large head to act like a spacer and increase pull-out resistance. Applied zinc nickel plating to help resist corrosion.



Sherex developed this part to add increased spin-out resistance in soft materials. Special knurl design provides increased engagement with the base material. Small flange provided near flush installation.

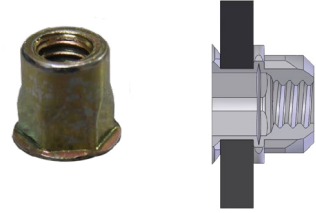


Special small grip part designed for materials thinner than .030 inches.

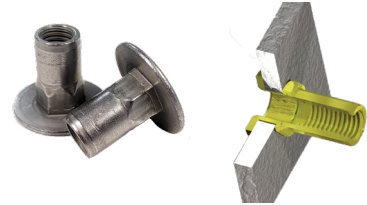


Specialty Fastener Solutions - Custom Rivet Nuts

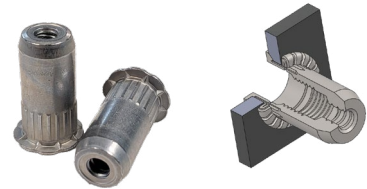
A replacement for a more expensive, machined component that would periodically spin-out. The customer required a low-profile insert with high spin-out resistance. Sherex developed this part has a half-hex body to increase spin performance, 0.145" max installed length, and higher strength threads to withstand installation forces.



Sherex developed a high strength rivet nut that is compatible with class 10.9 bolts. This design incorporates a full hex body for increased spin-out resistance. It also ensures the bolt is the failure mode, which is a best practice when working with structural applications. This was developed for the agricultural equipment industry. Sherex has a standard line of high strength rivet nuts with its HHS and RHS product lines.



Special head and wedge design to meet spin-out requirements and designed with an M4.2 thread for automotive applications.



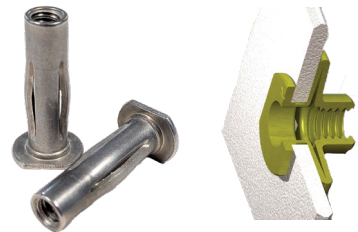
Sherex shouldered rivet nut was developed for attachments in plastics. The shoulder design provides a positive metal to metal installation redirecting the load of the joint through the rivet nut shoulder. This minimizes the plastic from creeping during assembly and maintains joint clamp load.



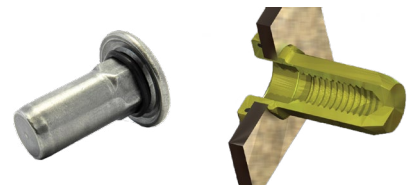
M6 prebulbed slotted body design incorporated under head wedges to increase the spin-out resistance in soft plastic.



5/16-18 prebulbed slotted body style with a trimmed head. This head feature allowed installation in the field by the consumer or assembler when used with a special low cost installation tool. Feature also allows head to sit flush within a slot to prevent spin-out.



Closed end design with o-ring and o-ring recess under head provides the ultimate sealing solution for attachment points in applications with chemicals and other fluids that breakdown other sealing compounds.



Fastener Installation Systems - Rivet Nut Tools

We are committed to providing comprehensive solutions that include the right-fit fastener and the right-fit installation tool at the lowest-total-installed-cost. In addition to our standard and specialty fasteners, we offer the following installation system options:

Hand Tool Calibration Unit

- Measure pulling force for both spin-spin and spin-pull rivet nut tools
- M4 to M12 and unified equivalent thread sizes
- View historical performance



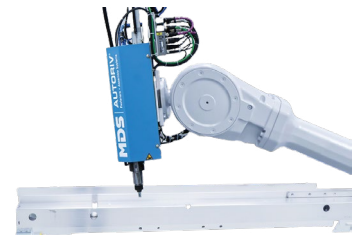
Hydro-Pneumatic Tools - Spin-Pull

- Powered by air pressure and hydraulic fluid
- Best Practices tools for installing all sizes of rivet nuts



Automation

- Best for large production environments
- Contact us to discuss your application requirements



Pneumatic Tools - Spin-Spin

- Powered by air pressure
- Available in pistol grip, right angle, and inline styles
- Feature quick change nose piece for headset replacement



Rivet Nut Hand Tools

- Best for small production work and prototyping
- Available in multiple sizes and styles



Sherex Hand Tool Calibration Unit

The Hand Tool Calibration Unit measures the pulling force for both pneumatic and hydro-pneumatic tools to ensure the tool is meeting the required setting force to install into the application.

With the ability to measure the pull force of a tool before performing an install, operators are assured the tool is calibrated correctly to make a perfect install.

Features and Benefits

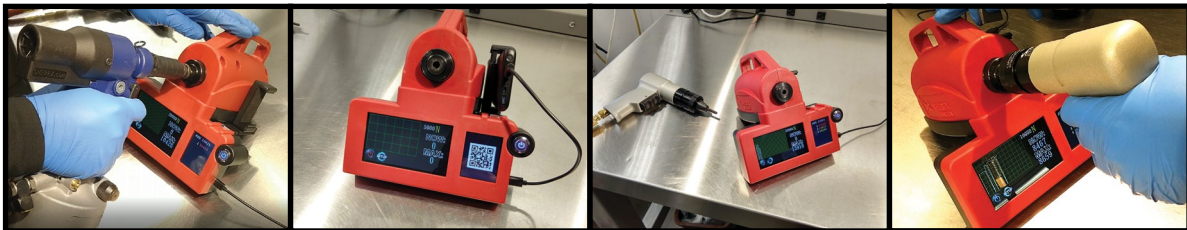
- Measures pulling force for spin-spin and spin-pull tools
- Start measuring tools immediately
- Displays value and curve when unit detects any load applied from rivet nut hand tools
- Secondary screen displays data from up to seven previous tests
- Aggregates average and maximum pull
- Interchangeable headsets for sizes M4 / #6-32 through M12 and 1/2"-13
- Rivet nut stud headsets available for M5 / #8-32 through M8 / 3/8"-16
- Integrated microSD card slot for data storage and transfer
- Ergonomically designed to for on a work station
- Optional power bank connected to the unit via USB-Type C



Other Benefits Include

- Schedule tool maintenance
- View historical performance
- Compare installation methods
- Mobile
- Installation efficiency
- Maintenance reductions
- Reduce scrap
- Improve tool functionality

Product Number	Description
SHTC-2A	Sherex Hand Tool Calibration Unit



Visit www.sherex.com/calibration-unit
for more information and videos on Sherex's Hand Tool Calibration Unit

FLEX-5P and FLEX-5S - Hydropneumatic Rivet Nut Tool

One Tool With Pull to Pressure & Pull to Stroke Capabilities

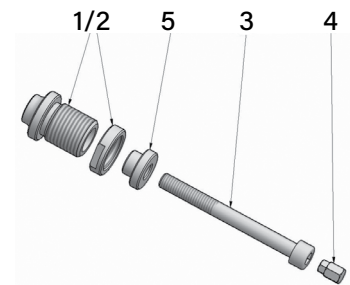
FLEX-5P: The Sherex FLEX-5P utilizes a Pull to Pressure method of installation. This method allows the same insert type to be installed into varying material thicknesses (within the Grip Range of the part) without any adjustment to the tool.

FLEX-5S: The Sherex FLEX-5S utilizes a Pull to Stroke method of installation. This method allows the insert to be installed to the same distance each time. This is helpful when installing into soft materials (prevents crushing of the base material) or when a specific Installed Length is required.

Features and Benefits

Change over kit for converting between pull to pressure and pull to stroke

- Installs Rivet Nuts from: M3-M10 and 4-40-3/8-16
- Push to start nose piece to spin on fastener
- Single stage trigger
- Automatic reverse with manual reverse bypass
- Quick change mandrel design
- Light weight (4.2 lbs)
- Can be suspended from a balancer
- Socket head cap screw mandrel
- Installs Rivet Nut Studs from M5-M8 and 10-24-5/16-24.
- Split tool available (remote booster for lighter tool)
- Upgradeable to process monitoring
- 5,000 lbs (22 kN) pulling force at 90 psi
- 7 mm (0.276 in.) of available stroke
- 2-3 second cycle time

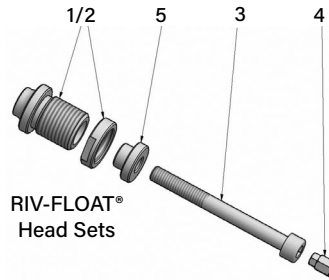
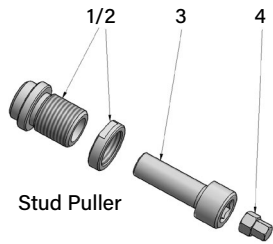


Product Number	Description
FLEX-5P	Hydropneumatic rivet nut installation pull-to-pressure tool
FLEX-5S	Hydropneumatic rivet nut installation pull-to-pressure tool

FLEX-5 Head Sets For Standard Rivet Nuts

Thread Size	Complete Headset	Anvil (1 + 2)	Mandrel (3)	Hex Driver (4)	Reducing Sleeve (5)
M3	FL5 - HS - M3	FL5 - HS - 00903	M -M3 -40	FL5 - HS - 01003	FL5 - HS - 09103
M4	FL5 - HS - M4	FL5 - HS - 00904	M -M4 - 55	FL5 - HS - 01004	FL5 - HS - 09104
M5	FL5 - HS - M5	FL5 - HS - 00905	M -M5 - 65	FL5 - HS - 01005	FL5 - HS - 09105
M6	FL5 - HS - M6	FL5 - HS - 00906	M -M6 - 65	FL5 - HS - 01006	FL5 - HS - 09106
M8	FL5 - HS - M8	FL5 - HS - 00908	M -M8 - 65	FL5 - HS - 01008	FL5 - HS - 09108
M10	FL5 - HS - M10	FL5 - HS - 00910	M -M10 - 65	FL5 - HS - 01010	N/A
#4-40	FL5 - HS - 0440	FL5 - HS - 00854	M -0440 - 175	FL5 - HS - 00754	FL5 - HS - 09154
#6-32	FL5 - HS - 0632	FL5 - HS - 00856	M -0632 - 175	FL5 - HS - 00756	FL5 - HS - 09156
#8-32	FL5 - HS - 0832	FL5 - HS - 00858	M -0832 - 175	FL5 - HS - 00758	FL5 - HS - 09158
#10-24	FL5 - HS - 1024	FL5 - HS - 00850	M -1024 - 250	FL5 - HS - 00750	FL5 - HS - 09150
#10-32	FL5 - HS - 1032	FL5 - HS - 00850	M -1032 - 250	FL5 - HS - 00750	FL5 - HS - 09150
1/4-20	FL5 - HS - 2520	FL5 - HS - 00848	M -2520 - 250	FL5 - HS - 00748	FL5 - HS - 09148
1/4-28	FL5 - HS - 2528	FL5 - HS - 00848	M -2528 - 250	FL5 - HS - 00748	FL5 - HS - 09148
5/16-18	FL5 - HS - 3118	FL5 - HS - 00840	M -3118 - 250	FL5 - HS - 00740	FL5 - HS - 09140
5/16-24	FL5 - HS - 3124	FL5 - HS - 00840	M -3124 - 250	FL5 - HS - 00740	FL5 - HS - 09140
3/8-16	FL5 - HS - 3716	FL5 - HS - 00842	M -3716 - 250	FL5 - HS - 00742	N/A
3/8-24	FL5 - HS - 3724	FL5 - HS - 00842	M -3724 - 25 0	FL5 - HS - 00742	N/A

FLEX-5P and FLEX-5S - Specialty Head Sets



FLEX-5 Head Sets For Rivet Nut Studs

Thread Size	Complete Headset	Anvil (1 + 2)	Mandrel (3)	Hex Driver (4)	Reducing Sleeve (5)
M5	FL5 - HS - M5S	FL5 - HS - S0905	FL5 - HS - 0S005	FL5 - HS - 01010	N/A
M6	FL5 - HS - M6S	FL5 - HS - S0906	FL5 - HS - 0S006	FL5 - HS - 01010	N/A
M8	FL5 - HS - M8S	FL5 - HS - S0908	FL5 - HS - 0S008	FL5 - HS - 01010	N/A
#10-24	FL5 - HS - 1024S	FL5 - HS - S0850	FL5 - HS - S1024	FL5 - HS - 01010	N/A
#10-32	FL5 - HS - 1032S	FL5 - HS - S0850	FL5 - HS - S1032	FL5 - HS - 01010	N/A
1/4-20	FL5 - HS - 2520S	FL5 - HS - S0848	FL5 - HS - S2520	FL5 - HS - 01010	N/A
1/4-28	FL5 - HS - 2528S	FL5 - HS - S0848	FL5 - HS - S2528	FL5 - HS - 01010	N/A
5/16-18	FL5 - HS - 3118S	FL5 - HS - S0840	FL5 - HS - S3118	FL5 - HS - 01010	N/A
5/16-24	FL5 - HS - 3124S	FL5 - HS - S0840	FL5 - HS - S3124	FL5 - HS - 01010	N/A

FLEX-5 Head Sets For RIV-FLOAT® Nuts

Thread Size	Complete Headset	Anvil (1 + 2)	Mandrel (3)	Hex Driver (4)	Reducing Sleeve (5)
M4	FL 5-HS-2528R	FL 5-HS-00848	M-2528-225	FL 5-HS-00748	FL 5-HS-09148
M5	FL 5-HS-M5R	FL 5-HS-R 0995	M-M5-65	FL 5-HS-01005	FL 5-HS-09105
M6	FL 5-HS-M6R	FL 5-HS-R 0996	M-M6-65	FL 5-HS-01006	FL 5-HS-09106
4-40 UNC	FL 5-HS-2528R	FL 5-HS-00848	M-2528-225	FL 5-HS-00748	FL 5-HS-09148
6-32 UNC	FL 5-HS-2528R	FL 5-HS-00848	M-2528-225	FL 5-HS-00748	FL 5-HS-09148
8-32 UNC	FL 5-HS-2528R	FL 5-HS-00848	M-2528-225	FL 5-HS-00748	FL 5-HS-09148
10-24 UNC	FL 5-HS-1024R	FL 5-HS-R 0950	M-1024-250	FL 5-HS-00750	FL 5-HS-09150
10-32 UNF	FL 5-HS-1032R	FL 5-HS-R 0950	M-1032-250	FL 5-HS-00750	FL 5-HS-09150
1/4-20 UNC	FL 5-HS-2520R	FL 5-HS-R 0948	M-2520-250	FL 5-HS-00748	FL 5-HS-09148
1/4-28 UNF	FL 5-HS-2528R 1	FL 5-HS-R 0948	M-2528-250	FL 5-HS-00748	FL 5-HS-09148

FLEX-5 Head Sets For RIV-FLOAT® Short Nuts

Thread Size	Complete Headset	Anvil (1 + 2)	Mandrel (3)	Hex Driver (4)	Reducing Sleeve (5)
M4	FL 5-HS-M4SR	FL 5-HS-SR 0994	M-M4-55	FL 5-HS-01004	FL 5-HS-09104
M5	FL 5-HS-M5SR	FL 5-HS-SR 0995	M-M5-65	FL 5-HS-01005	FL 5-HS-09105
8-32 UNC	FL 5-HS-0832SR	FL 5-HS-SR 0858	M-0832-150	FL 5-HS-00758	FL 5-HS-09158
10-24 UNC	FL 5-HS-1024SR	FL 5-HS-SR 0950	M-1024-225	FL 5-HS-00750	FL 5-HS-09150
10-32 UNF	FL 5-HS-1032SR	FL 5-HS-SR 0950	M-1032-225	FL 5-HS-00750	FL 5-HS-09150

RIV943 Headsets for Standard Rivet Nuts

The RIV943 is designed for use across various industries, including automotive, heavy truck, construction and agricultural equipment, and metalworking applications. Its powerful 32 kN of force, ergonomic design, and ability to install a wide range of sizes make it ideal for assembly line and medium to high volume installations.

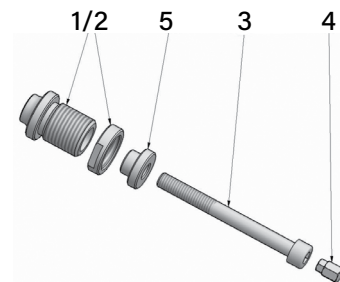
The RIV943 is available in a durable case, complete with essential accessories such as hydraulic oil, adjustment tools, and universal adjustment keys. Additional headsets are available for various metric and inch rivet nuts and rivet nut studs. See the available parts list below.

Features and Benefits

- Installs Rivet Nuts from: M4-M12 and 08-32-1/2"-13
- 32 kN Pulling Force
- Single stage trigger
- Automatic reverse with manual reverse bypass
- Direct Force and Stroke Adjustment
- Can be suspended from a balancer
- Socket head cap screw mandrel



Product Number	Description
RIV943	Hydropneumatic rivet nut installation tool



RIV943 Head Sets For Standard Rivet Nuts

Thread Size	Complete Headset	Anvil (1 + 2)	Mandrel (3)	Hex Driver (4)	Reducing Sleeve (5)
M3	FL5 - HS - M3	FL5 - HS - 00903	M - M3 - 40	FL5 - HS - 01003	FL5 - HS - 09103
M4	FL5 - HS - M4	FL5 - HS - 00904	M - M4 - 55	FL5 - HS - 01004	FL5 - HS - 09104
M5	FL5 - HS - M5	FL5 - HS - 00905	M - M5 - 65	FL5 - HS - 01005	FL5 - HS - 09105
M6	FL5 - HS - M6	FL5 - HS - 00906	M - M6 - 65	FL5 - HS - 01006	FL5 - HS - 09106
M8	FL5 - HS - M8	FL5 - HS - 00908	M - M8 - 65	FL5 - HS - 01008	FL5 - HS - 09108
M10	FL5 - HS - M10	FL5 - HS - 00910	M - M10 - 65	FL5 - HS - 01010	N/A
#4-40	FL5 - HS - 0440	FL5 - HS - 00854	M - 0440 - 175	FL5 - HS - 00754	FL5 - HS - 09154
#6-32	FL5 - HS - 0632	FL5 - HS - 00856	M - 0632 - 175	FL5 - HS - 00756	FL5 - HS - 09156
#8-32	FL5 - HS - 0832	FL5 - HS - 00858	M - 0832 - 175	FL5 - HS - 00758	FL5 - HS - 09158
#10-24	FL5 - HS - 1024	FL5 - HS - 00850	M - 1024 - 250	FL5 - HS - 00750	FL5 - HS - 09150
#10-32	FL5 - HS - 1032	FL5 - HS - 00850	M - 1032 - 250	FL5 - HS - 00750	FL5 - HS - 09150
1/4-20	FL5 - HS - 2520	FL5 - HS - 00848	M - 2520 - 250	FL5 - HS - 00748	FL5 - HS - 09148
1/4-28	FL5 - HS - 2528	FL5 - HS - 00848	M - 2528 - 250	FL5 - HS - 00748	FL5 - HS - 09148
5/16-18	FL5 - HS - 3118	FL5 - HS - 00840	M - 3118 - 250	FL5 - HS - 00740	FL5 - HS - 09140
5/16-24	FL5 - HS - 3124	FL5 - HS - 00840	M - 3124 - 250	FL5 - HS - 00740	FL5 - HS - 09140
3/8-16	FL5 - HS - 3716	FL5 - HS - 00842	M - 3716 - 250	FL5 - HS - 00742	N/A
3/8-24	FL5 - HS - 3724	FL5 - HS - 00842	M - 3724 - 25 0	FL5 - HS - 00742	N/A

FLEX-18 - Hydropneumatic Rivet Nut Tool

The most powerful tool on the market providing pull to pressure and pull to stroke installation capabilities.

Features and Benefits

- Installs Rivet Nuts from M8 to M16 and 5/16-18 to 3/4-10
- Push to start nose piece to spin on fastener
- Single stage trigger
- Automatic reverse with manual reverse bypass
- Quick change mandrel design
- Socket head cap screw mandrel for sizes up to M12 and 1/2-20
- Can be suspended from a balancer
- **18,000 lbs. (80 kN) of pulling force**
- **15 mm (.591 in) of available stroke**
- Upgradeable to process monitoring
- 2-3 second cycle time
- Light weight handle (8.0 lbs.)
- All aluminum handle design for improved durability



Product Number	Description
FLEX-18	Hydropneumatic rivet nut installation tool

Head Sets For Standard Size Nose Case

Thread Size	Complete Headset	Anvil	Mandrel	Hex Driver	Adaptor Nut
M8	FL18-HS-M8	FL18-HS-00908	M-M8-80	FL5-HS-01008	FL18-HS-09108
M10	FL18-HS-M10	FL18-HS-00910	M-M10-90	FL5-HS-01010	FL18-HS-09110
M12	FL18-HS-M12	FL18-HS-00912	M-M12-90	FL18-HS-10102	FL18-HS-09112
5/16-18 UNC	FL18-HS-3118	FL18-HS-00908	M-3118-300	FL5-HS-00740	FL18-HS-09108
5/16-24 UNF	FL18-HS-3124	FL18-HS-00908	M-3124-300	FL5-HS-00740	FL18-HS-09108
3/8-16 UNC	FL18-HS-3724	FL18-HS-00910	M-3716-350	FL5-HS-00742	FL18-HS-09110
3/8-24 UNF	FL18-HS-3724	FL18-HS-00910	M-3724-350	FL5-HS-00742	FL18-HS-09110
1/2-13 UNC	FL18-HS-5013	FL18-HS-00950	M-5013-350	FL18-HS-00750	FL18-HS-09150
1/2-20 UNF	FL18-HS-5020	FL18-HS-00950	M-5020-350	FL18-HS-00750	FL18-HS-09150

Thread Size	Complete Headset	Anvil	Mandrel
M16	FL-HS-M16	FL18-HS-00916	M-M16-FL18
5/8-11 UNC	FL18-HS-6211	FL18-HS-00962	M-6211-FL18
3/4-10 UNC	FL18-HS-7510	FL18-HS-00975	M-7510-FL18

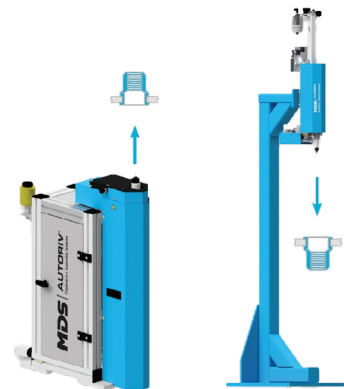
Sherex Automation by MDS® - Rivet Nut Automated Installation Systems

Sherex by PEM offers a wide range of advanced automated rivet nut installation systems and hand tools by MDS, designed to deliver efficient, accurate installations. MDS automation solutions are ideal for a variety of industries — automotive, aerospace, industrial equipment — and any application requiring high-volume installations with built-in quality assurance.

These state-of-the-art rivet nut automation systems combine ergonomic design with intelligent integration and robust performance. Systems can be fully automated — utilizing a robotic arm for rivet nut installation — or semi-automated, where an operator manually feeds components into the system.

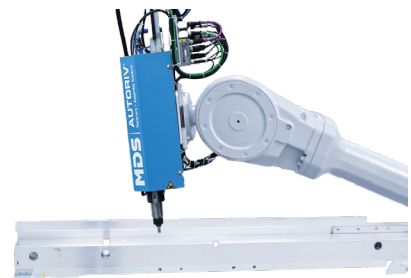
A240-BI - Automated Robotic Installation

The MDS A240-BI Workstation is a fully automated press. It is similar to the A230 system, except the setting head is in a fixed position and the component is moved to the setting position through robotic or other automated handling systems.



A230-BI Mobile Robotic Tools for End of Arm Installation

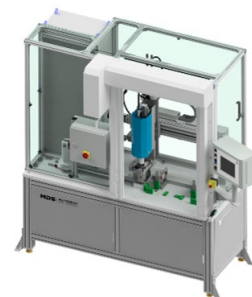
The MDS A230-BI is an end of arm robotic attachment (setting head) for installing rivet nuts into the application, eliminating the need for manual assembly. The robot positions the setting head to each installation position on the component, and the fastener is then placed into the hole and installed.



A220-BI - Manual Press Installation

The MDS A220-BI is a manual press designed for inserting rivet nuts and rivet nut studs. This semi-automated workstation provides a reliable solution for controlled, efficient assembly.

The setting process is similar to the A240-BI mobile robotic tool — but the operator moves the component into position for automated installation.



A210-BI and FLEX-5 Process Monitoring

MDS offers two hydropneumatic spin-pull tools with process monitoring: the FLEX-8 and FLEX-18. These tools install all types of blind rivet nuts and rivet nut studs in sizes M8–M16 and unified thread equivalents.

Each unit is custom-configured based on the application and fastener type. Integrated sensors record force-displacement curves in real time.



SSG Tools - Spin-Spin Rivet Nut tools

Designed for installing steel or aluminum CAL, CAK, CAH, CAO, CFT/CAT*, CFW/CAW* and CPB rivet nut inserts. Features quick change nose piece for head set replacement without tools.

*Can install stainless steel.

SSG-800
Pistol Grip Style



SSG-910
Right Angle Style



SSG-900
Inline Style



Part Number	Thread Size	Tool RPM	Air Pressure (Dynamic)	Weight	Air Inlet	Air Use	Minimum Hose Size		Complete Head Assembly	Hex Driver	Complete Head Assembly Rivet Nut Stud Bearing Set Mandrel
		801&901	911	PSI	LBS	NPT	CFM	IN		Make Up Complete Head Assembly	
SSG - 801, 901 & 911	4-40	3000	2200	35-45	3.0	1/4"	5	3/8	HS-0440	HD-4	BS-4M-0440-150
	6-32	3000	2200	70-80	3.0	1/4"	5	3/8	HS-0632	HD-6	HSS-0632BS-6M-0632-150
	8-32	3000	2200	70-90	3.0	1/4"	5	3/8	HS-0832	HD-8	BS-8M-0832-150
	M3	3000	2200	35-45	3.0	1/4"	5	3/8	HS-M3	HD-M3	BS-M3M-M3-30
	M4	3000	2200	35-45	3.0	1/4"	5	3/8	HS-M4	HD-M4	BS-M4M-M4-35
		802&902	912								
SSG - 802, 902 & 912	10-24	1500	1100	60-80	3.0	1/4"	5	3/8	HS-1024	HD-10	BS-10M-1024-175
	10-32	1500	1100	60-80	3.0	1/4"	5	3/8	HS-1032	HD-10	HSS-1032BS-10M-1032-175
	1/4-20	1500	1100	70-90	3.0	1/4"	5	3/8	HS-2520	HD-25	HSS-2520BS-25M-2520-175
	1/4-28	1500	1100	70-90	3.0	1/4"	5	3/8	HS-2528	HD-25	BS-25M-2528-200
	M5	1500	1100	60-80	3.0	1/4"	5	3/8	HS-M5	HD-M5	HSS-M5BS-M5M-M5-40
	M6	1500	1100	70-90	3.0	1/4"	5	3/8	HS-M6	HD-M6	HSS-M6BS-M6M-M6-40
		803&903	913								
SSG - 803, 903 & 913	5/16-18	600	400	90-110	3.0	1/4"	5	3/8	HS-3118	HD-31	BS-31M-3118-175
	5/16-24	600	400	90-110	3.0	1/4"	5	3/8	HS-3124	HD-31	BS-31M-3124-175
	3/8-16	600	400	90-110	3.0	1/4"	5	3/8	HS-3716	HD-37	HSS-3716BS-37M-3716-200
	3/8-24	600	400	90-110	3.0	1/4"	5	3/8	HS-3724	HD-37	BS-37M-3724-200
	M8	600	400	90-110	3.0	1/4"	5	3/8	HS-M8	HD-M8	HSS-M8BS-M8M-M8-40
	M10	600	400	90-110	3.0	1/4"	5	3/8	HS-M10	HD-M10	BS-M10M-M10-45
SSG - 804	5/16-18	400	—	90-110	3.0	1/4"	5	3/8	HS-3118	HD-31	BS-31M-3118-175
	5/16-24	400	—	90-110	3.0	1/4"	5	3/8	HS-3124	HD-31	BS-31M-3124-175
	3/8-16	400	—	90-110	3.0	1/4"	5	3/8	HS-3716	HD-37	BS-37M-3716-200
	3/8-24	400	—	90-110	3.0	1/4"	5	3/8	HS-3724	HD-37	BS-37M-3724-200
	M8	400	—	90-110	3.0	1/4"	5	3/8	HS-M8	HD-M8	HSS-M8BS-M8M-M8-40
	M10	400	—	90-110	3.0	1/4"	5	3/8	HS-M10	HD-M10	BS-M10M-M10-45
SSG-808	1/2-13	275	—	75-120	4.0	1/4"	5	3/8	HS-5013	HD-50	BS-50M-5013-250
	1/2-20	275	—	75-120	4.0	1/4"	5	3/8	HS-5020	HD-50	BS-50M-5020-225
	M12	275	—	75-120	4.0	1/4"	5	3/8	HS-M12	HD-M12	BS-M12M-M12-60

Sherex Hand Tools - Manual Rivet Nut Tools

DLHT
Hand Tool



DRHT
Hand Tool



DLHT (Unified Tool) Includes: 1/4-20, 5/16-18, 3/8-16, and 1/2-13 head sets.
DLHT (Metric Tool) Includes: M6, M8, M10, and M12 head sets.

DRHT (Unified Tool) Includes: 10-32, 1/4-20, 5/16-18, and 3/8-16 head sets.
DRHT (Metric Tool) Includes: M5, M6, M8, and M10 head sets.

Standard Head Sets

Thread Size	Complete Headset (Anvil & Mandrel)	Anvil	Mandrel
6-32	MHS-0632	MA-0632	M-0632
8-32	MHS-0832RFS	MA-0832	M-0832
10-24	MHS-1024RF	MA-1024	M-1024
10-32	MHS-1032RF	MA-1032	M-1032
1/4-20	MHS-2520	MA-2520	M-2520
1/4-28	MHS-2528	MA-2528	M-2528
5/16-18	MHS-3118	MA-3118	M-3118
3/8-16	MHS-716	MA-3716	M-3716
1/2-13	MHS-5013	MA-5013	M-5013
M4	MHS-M4	MA-M4	M-M4
M5	MHS-M5	MA-M5	M-M5
M6	MHS-M6	MA-M6	M-M6
M8	MHS-M8	MA-M8	M-M8
M10	MHS-M10	MA-M10	M-M10
M12	MHS-M12	MA-M12	M-M12

RIV-FLOAT® Head Sets

Thread Size	Complete Headset (Anvil & Mandrel)	Anvil	Mandrel
8-32	MHS-0832RF	MA-2520/2528	M-0832
10-32	MHS-1032RF	MA-1032RF	M-1032
1/4-20	MHS-2520RF	MA-2520/2528RF	M-2520
M4	MHS-M4RF	MA-2520/2528	M-2528
M5	MHS-M5RF	MA-M5RF	M-M5
M6	MHS-M6RF	MA-M6RF	M-M6

RIV-FLOAT® Short Head Sets

Thread Size	Complete Headset (Anvil & Mandrel)	Anvil	Mandrel
8-32	MHS-0832RFS	MA-0832RF	M-0832
10-24	MHS-1024RF	MA-1032RF	M-1024
10-32	MHS-1032RF	MA-10RFS	M-1032
M4	MHS-M4RFS	MA-M4RFS	M-M4
M5	MHS-M5RFS	MA-M5RFS	M-M5

Rivet Nut Testing Methods

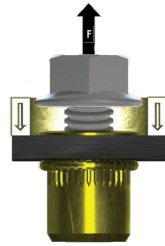
Pull-out

Definition:

- Pull Out occurs when threads are pulled from the rivet nut (ultimate thread strength) or base material is distorted and the entire rivet nut pulls through the base material.

Causes:

- Hole size is too large.
- Forces applied to the joint are higher than anticipated.



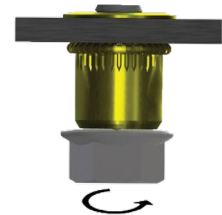
Spin-out

Definition:

- Spin-out is the amount of torque required to make a rivet nut spin in the hole in which it was installed.

Causes:

- Bolt cross threads into the rivet nut causing it to spin.
- Excessive corrosion causes bolt to bind in the nut.
- Using a screw with mechanical locking feature that has higher prevailing torque than the spin-out of the rivet nut.



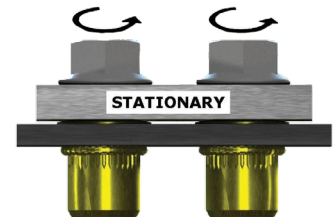
Torque-Out

Definition:

- Torque force required to strip threads out of the rivet nut.
- This method of testing sandwiches the head of the rivet nut between the non-rotational mating part and parent or base panel.
- Spin-out is not a factor because tightening the bolt on the non-rotating part holds the rivet nut in place and prevents it from spinning.

Causes:

- Assembly torque is too high causing thread failure.
- Improper grade of fastener used.



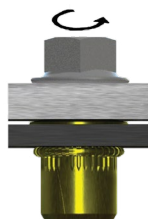
*Torque can be affected by various factors such as coefficient of friction of the finish, prevailing torque, washers, etc. Sherex recommends you test your application.

Suggested Assembly Torque

Definition:

- Recommended torque for assembling a rivet nut joint with Class 8.8/Grade 5 hardware.

Contact us if you require Grade 8, Class 10 or higher joint strength.



Thread Size	Suggested Assembly Torque in. lbs. / N•m Plated Screw Grade 5 Class 8
6 -32 UNC	12
8 -32 UNC	22
10 -24 UNC	32
10 -32 UNF	36
1/4-20 UNC	75
1/4-28 UNF	75
5/16 -18 UNC	156
5/16 -24 UNF	156
3/8-16 UNC	276
3/8-24 UNF	276
M4x0.7 ISO	2.5
M5x0.8 ISO	5.0
M6x1.0 ISO	8.6
M8x1.25 ISO	21.0
M10x1.5 ISO	42.0
M12x1.75 ISO	72.0

Rivet Nut Coatings

Sherex rivet nuts are coated in a variety of electroplated coatings to increase corrosion resistance. Electroplated coatings are metals within a solution applied via an electrical current, and are RoHS, Reach, and ELV compliant, EXCEPT for Cadmium.

Customer-specific and custom coatings are available on request.

Coating	Description	Salt Spray Test Results (per ASTM B117-16)
Zinc Nickel 	- Standard Zinc Nickel - Color: silver (clear) or black	120 hours before white rust 1,000 hours before red rust
Tin Zinc 	- Tin Zinc and Chromate - Color: silver	120+ hour before white rust 1,500 hours before red rust
Trivalent Chromate 	- Zinc plated then coated (passivated) with Trivalent Chromate - Color: yellow, clear, black	96 hours before white rust 240 hours before red rust
Tin 	- Proprietary - Cadmium replacement when RoHS compliance is needed	96 hours before red rust
CRE 	- Proprietary Zinc Nickel offering superior performance to standard - Color: silver or black	500 hours before red rust
CR 	- Proprietary Zinc Nickel offering superior performance standard - Color: silver or black	1,000 hours before red rust

Rivet Nut Sealants

Rivet nut head sealants are an ideal solution when a leak proof joint is required. We recommend using in conjunction with closed end rivet nuts for optimal performance.

Seal	Description	Performance Results
Seal2 	- For standard large flange rivet nuts - Prevents fluid or air from passing through	- Withstands temperatures up to 300F (150C) - No leakage up to 160 psi of backside pressure
Plastisol 	- For standard large flange rivet nuts - PVC particles suspended in plasticizer - Cost effective option for sealing out dirt, dust, and water	Not recommended in applications where contact with automotive fluids is possible
Silicone 	- For standard large flange rivet nuts - Compatible with plastics	- Withstands temperatures up to 425F (218C) - Can pass through paint bake for up to 30 minutes with no reduction in sealing performance

Mechanical Lock and Locsert®

Product	Description	Performance Results	Best Fit Applications
Mechanical Lock  Mechanical Lock	• The final thread of the rivet nut is mechanically deformed. The deformed thread acts as a prevailing torque feature, which resists vibrational loosening. • Available on most rivet nuts series, including Hex Body, Round Body with keyed head, and Round Body with wedge head • Spin-pull tools are required for installation	• Mechanical locks are applied onto rivet nuts to customer specifications, and can be applied to meet IFI, ISO, and NAS prevailing torque specifications. Contact us for more information.	• Where joints are susceptible to vibrational loosening • Where currently using locking patch on a bolt. Our Mechanical Lock feature is a cost-effective alternative.
Locksert® 	• For standard large flange rivet nuts • Adhesive preapplied under the head • During installation, the adhesive bonds the rivet nut to the base material • Increases spin-out performance	• Has been tested to increase spin-out performance on average 87%	• Where a round hole is the only option - not able to stamp a hex hole • Increased spin-out performance for a round rivet nut

Benefits of Full Hex Rivet Nuts vs. Welded Hex Fasteners

The challenge

A manufacturer of agricultural equipment was experiencing insufficient throughput rates in its baler product lines.

- The issue was determined to be a result of the welding process used in the numerous attachment points.
- The manufacturer wanted to improve the work environment by reducing the amount of emissions and vapors caused by the welding process.



The Solution

Working directly with the manufacturer, the Sherex engineering team designed a new line of full hex rivet nuts to meet the application performance requirements.

- The new full hex rivet nuts significantly increased the application spin-out resistance during installation.
- Sherex provided a complete installation solution to the customer: full hex rivet nuts and the FLEX-5 tool.
- This new process replaced the previous welding process, increasing throughput by 50%.
- Additionally, the new solution eliminated all emissions and vapors associated with the welding process, which led to a safer working environment for the assemblers.

The Savings

Annual usage of the rivet nuts: 1,000,000
Cost savings: \$0.12 per weld =
\$120,000 annual savings!



Benefits of Full Hex Rivet Nuts vs. Welded Rivet Nuts

Optisert® rivet nut prevents costly design change

The challenge



A Tier 1 automotive supplier in Michigan manufactures aluminum frames for a large electric vehicle truck OEM. On the assembly line, round body rivet nuts (Sherex CAL Series) were spinning out at 8 Nm — well below the required 10–12 Nm assembly torque — causing significant rework and logistics costs. With 37 rivet nut installation points across both rails, the OEM faced a costly decision: redesign the rails for hex body rivet nuts (FHL Series) and spend six figures on new tooling, or switch to an even more expensive fastening method.

The Solution

Sherex offered a better path — keep the round holes and upgrade to a higher-performing round body rivet nut. Sherex's newly released Optisert®, featuring underhead wedges and aggressive knurls, was the answer. Timing was ideal: Optisert had just launched weeks earlier, making this a real-world, high-volume validation opportunity. Results exceeded expectations — Optisert achieved over 20 Nm of spin-out resistance in the application. The tier also integrated Sherex Hand Tool Calibration Units on the line, allowing operators to verify their FLEX-5 spin-pull tool was pulling at the correct force at regular intervals.

The Savings

Since adopting Optisert and the Hand Tool Calibration Unit, the tier has recorded zero spin-outs and eliminated installation rework entirely. The OEM avoided six figures in redesign and tooling costs, plus the premium of switching to hex body rivet nuts. Rail returns for rework and OEM line downtime were eliminated — all with no design or tooling changes. Optisert delivered better quality, better throughput, and a faster path forward.



Cost savings:

Changing Rails from round to Hex Body:	\$150,000
CAL Series to Hex Body:	\$79,000
CAL Series to Optisert:	\$22,000
Rework / Shipping:	\$23,000
Total Savings:	\$230,000

Vibrational Loosening Prevention

Wedge Locking Washers

Disc-Lock® heavy duty, self-locking washers designed to secure safety critical applications against vibrational loosening. Provided in glued pairs; easy installation with standard tools, and vibration-proof according to MIL-STD-1312-7. Available in carbon steel from sizes M3-#6 to M38-1 1/2", and stainless steel from sizes M6-1/4" to M24-1"

DISC-LOCK®



TEC Series® washers are heavy duty, reusable, self locking washers designed to secure safety-critical applications against vibrational loosening. Manufactured using stamping process. Available in standard and large outer diameter carbon and stainless steel M3-M72, #5-3"

TEC SERIES®

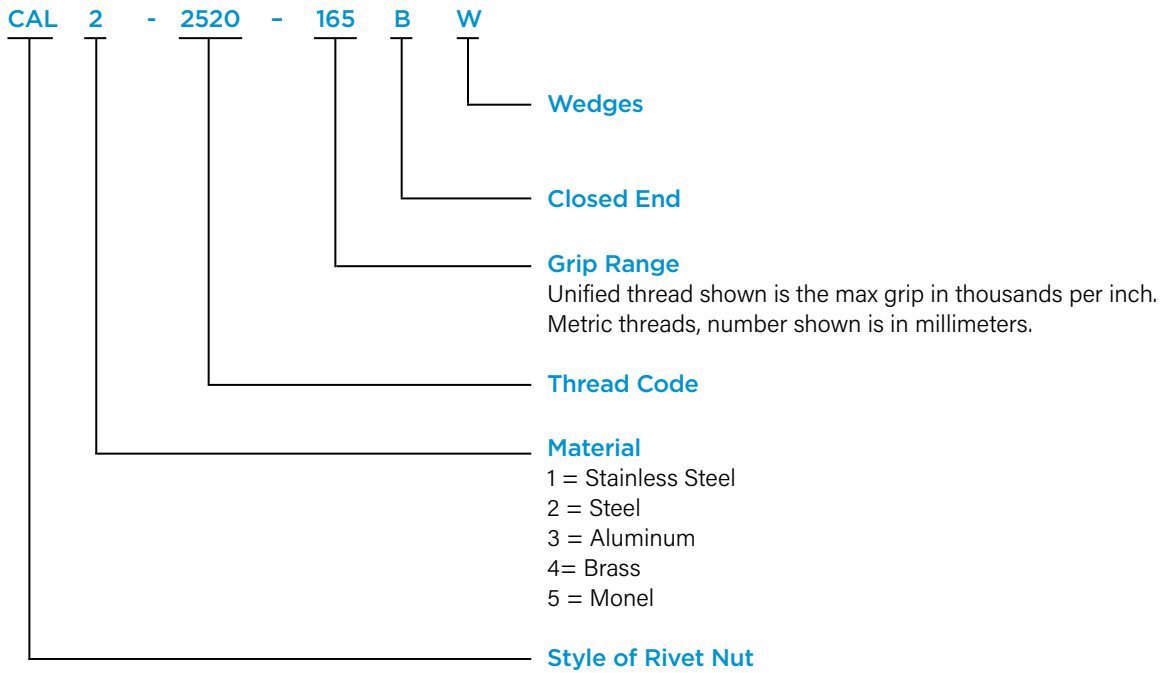


Wedge Locking Nuts

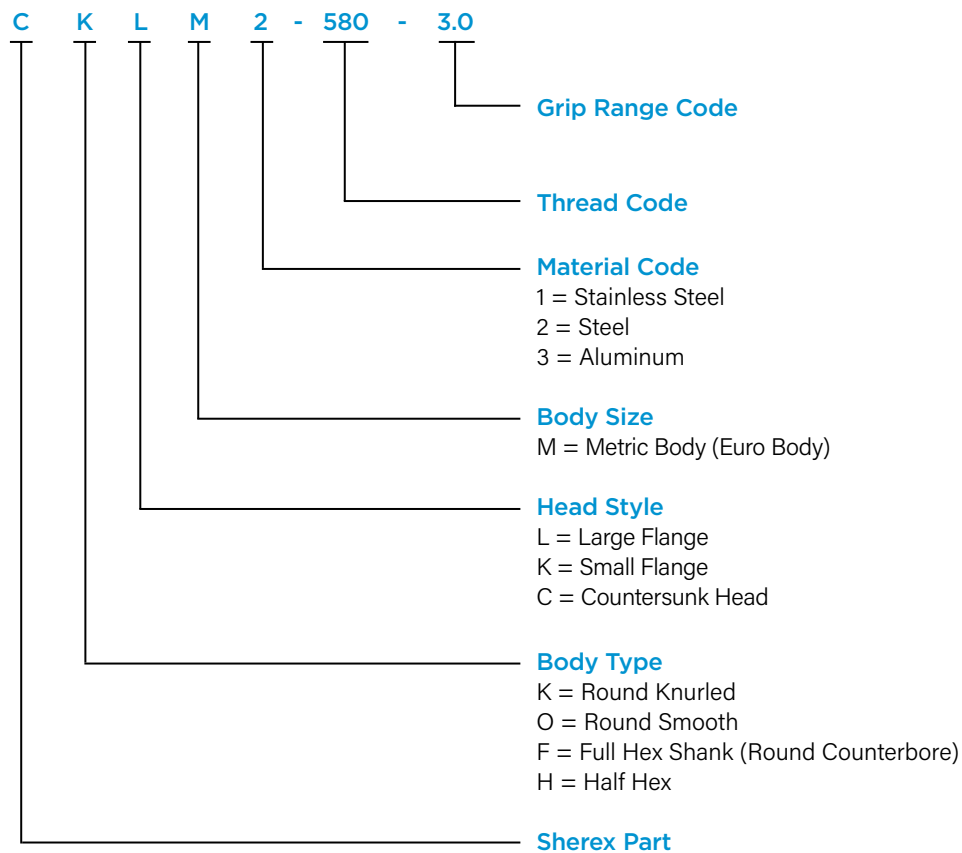
Patented, heavy duty, self-locking nuts designed to maintain joint integrity in high vibration applications. One piece assembly, easy installation and removal with standard tools, and vibration-proof according to MIL-STD-1312-7. Available in sizes from M10 to M22, 3/8" to 7/8". The M22 Safety Wheel Nut is specifically designed to prevent wheel loss from commercial vehicles such as trucks, trailers, and buses.



Sherex Line Part Number Key



Euro Body Line Part Number Key





Sherex® Fastening Solutions Headquarters

400 Riverwalk, Suite 600
Tonawanda NY, 14150
866.474.3739
Email: info@sherex.com

Sales and Distribution Offices

Mexico

Circuito Balvanera 5A Bodega 11
Parque Industrial Balvanera
Corregidora, Queretaro
C.P. 76900 Mexico
Phone: +52 (442) 196-8354
Email: sherexmexico@sherex.com

United Kingdom

Unit 14, Empire Business Park
Enterprise Way
Burnley, BB12 6LT, United Kingdom
Phone: +44 (0)1282 227164
Email: uksales@sherex.com

Poland

al. Krakowska 106,
02-256 Warszawa (PL)
Phone: +48 518 466 322
Email: sales@sherex.pl

Production Facilities

United States

5190 Old Easton Rd
Danboro, PA 18916
Phone: +1.800.237.4736
Email: info@sherex.com

Taiwan

No. 242, Zhongshan N. Rd. Dayuan Dist.
Taoyuan City 337055
Taiwan (R,O,C,)
Phone: +886 3 498-8689
Fax: +886 3 498-9395
Email: sales@sherex.com.tw

Galway

Mervue Business Park
Mervue, Galway, H91
AHW0, Ireland
Phone: +353 (91) 747100
Email: uksales@sherex.com

Malaysia

Lot 70, Lorong Senawang 4
Kawasan Perusahaan Senawang, 70450
Seremban, Negeri Sembilan, Malaysia
Phone: +60 (6) 6790 223
Email: sales@sherex.com

China

No.99, Middle Chenfeng Road, Kunshan City,
Jiangsu Province, China
Phone: +86 (512) 5726 9300
Email: sales@sherex.com