

RIVET NUT INSERT



ISO/TS 16949:2009 CERTIFIED

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RIVET NUT INTRODUCTION

RIVET NUT

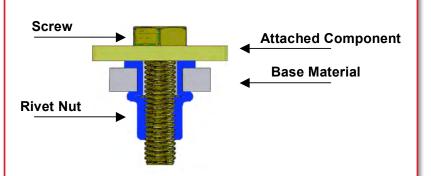
RIVET NUT INTRODUCTION

Blind Rivet Nuts provide load-bearing threads in thin sheet materials that are too thin for a tapped thread. Blind Rivet Nuts also are used when an application has little or no access to the backside as they can be installed from the front side of the work piece.









ADVANTAGES OF RIVET NUTS

- Rivet Nuts provide a strong thread in thin materials that cannot be tapped.
- Rivet Nuts can be installed from one side of the work piece, also known as a "Blind Application."
- Rivet Nuts work great when easy disassembly and reassembly of products is required.
- Rivet nuts can be installed in many different kinds of material including steel, plastic and fiberglass.
- Once Rivet Nuts are installed additional components with threaded fasteners can be attached.
- Rivet Nuts do not need to be welded to the base material.
- Prepainted material will not be damaged during the Rivet Nut installation process.
- · Rivet Nuts are available in many different styles & materials for many different kinds of applications.

RIVET NUT INTRODUCTION

RIVET NUT

APPLICATIONS: INDUSTRIES

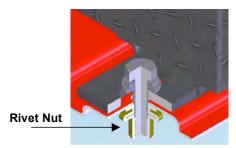
Rivet nuts are used in a variety of industries:

- Automotive
- HVAC
- Aerospace
- Ag/Construction Equipment

Examples are shown below.

- Lighting
- Electronics
- Medical
- Railways
- Any manufacturing that uses thin materials

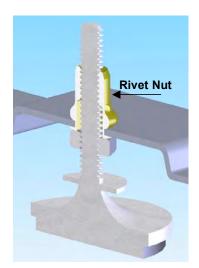
EXAMPLES OF RIVET NUT APPLICATIONS



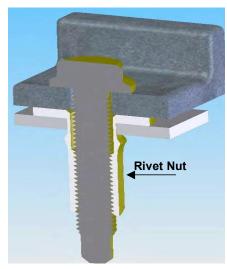
After Market Vehicle Retrofit - Tool Box



Vehicle Accessory - Pickup Side Rail



Appliance - Washer Tub Base



Agricultural – High Strength Rivet Nut

IMPERIAL/ INCH BODY STYLE Rivet Nuts

IMPERIAL/INCH BODY STYLE RIVET NUTS



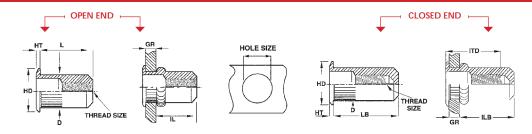
- Imperial/Inch body styles are designed to be placed in fractional or common inch drill/punch hole sizes.
- The most common styles used in the American marketplace.
- Most of the inch/imperial body styles are available with metric threads.
- All parts are manufactured by Sherex Taiwan, our ISO/TS 16949 certified production facility.
- Special designs are available to meet customer specific requirements. Contact Sherex with your application information.

CATALOG ATTRIBUTES - INCH BODY STYLE

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
			·



CAL LARGE FLANGE KNURLED BODY THIN WALL SERIES



UNIFIED THREAD (UNIT - INCHES)

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

METRIC THREAD (UNIT - MILLIMETERS)

Part Number	Thread Size	Grip I	Range	L	HD	нт	D	IL	LB	ILB	ITD	Hole Size
(Steel)		Min.	Max.	± .38	±.25 ±.64*	± .08	Max.	Max.	± .38	Max.	Ref.	+.15/000
CAL2-470-2.0	M4x0.7 ISO	0.50	2.00	10.68	9.91	0.76	6.73	7.75	18.80	16.26	15.49	6.75
CAL2-470-3.3	M4x0.7 ISO	2.00	3.30	11.94	9.91	0.76	6.73	7.75	18.80	14.73	17.02	6.75
CAL2-580-3.3	M5x0.8 ISO	0.50	3.30	12.07	10.54	0.76	7.52	8.00	25.15	21.46	18.54	7.60
CAL2-580-5.7	M5x0.8 ISO	3.30	5.70	14.86	10.54	0.76	7.52	8.00	25.15	18.67	21.34	7.60
CAL2-610-4.2	M6x1.0 ISO	0.70	4.20	14.73	12.70	0.76	9.91	9.65	30.23	25.53	22.73	10.00
CAL2-610-6.6	M6x1.0 ISO	4.20	6.60	17.27	12.70	0.76	9.91	9.65	30.23	22.99	26.29	10.00
CAL2-8125-3.8	M8x1.25 ISO	0.70	3.80	17.53	17.40*	0.89	13.46	11.94	35.31	29.85	25.27	13.50
CAL2-8125-7.9	M8x1.25 ISO	3.80	7.90	20.45	17.40*	0.89	13.46	10.80	35.31	26.04	28.45	13.50
CAL2-1015-3.8	M10x1.5 ISO	0.70	3.80	17.53	17.40*	0.89	13.46	11.94	35.31	29.85	25.27	13.50
CAL2-1015-7.9	M10x1.5 ISO	3.80	7.90	20.45	17.40*	0.89	13.46	10.80	35.31	26.04	28.45	13.50
CAL2-12175-5.1	M12x1.75 ISO	1.60	5.10	29.21	21.97*	1.19	17.40	21.59	60.07	52.58	38.23	17.45
CAL2-12175-8.9	M12x1.75 ISO	5.10	8.90	33.02	21.97*	1.19	17.40	21.59	60.07	48.77	38.23	17.45

PART NUMBERING SYSTEM

per Sherex SFS-01-001

CAL Specifications Part Number

Material: Steel 1008/1010 Example: CAL2-2520-165 Stainless Steel 302*

Aluminum 5056 CAL 2520 165 Product Style Material Thread Size Grip Range Empty-Open End Zinc Plated-Yellow Dichromate Large Flange 1-Stainless Steel B-Closed End

Finish: per ASTM B633 Fe/Zn 8, Type II Knurled Body 2-Steel T-Clear Trivalent per Sherex spec SFS-01-003, SC-1 Thin Wall Series W-Wedge Head 3-Aluminum S-Sealed RoHS Compliant: Zinc Plated-Clear Trivalent Chromate

Special finish or material available upon request

*Contact Sherex for exact product dimensions in Stainless Steel.

Grip range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. Contact Sherex for details.

CAL style rivet nuts are available in sealed, closed end, and wedge head designs by special order. Other specials available upon request.

Contact Sherex for test data.

INSTALLATION TOOLING

CAL Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38. Sherex rivet nuts are compatible with the following hardware:

GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8





- 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.



CLOSED END



WEDGE HEAD



SEALED HEAD



CAK series

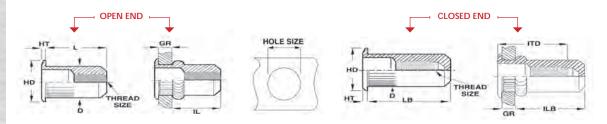


- The CAK series has a small flange for a near flush installation.
- Knurled body provides a higher resistance to spin out when installed in soft materials.



CLOSED END

CAK SMALL FLANGE KNURLED BODY THIN WALL SERIES



UNIFIED	THREAC) (L	TINI	- IN	CHES)							
Part Number (Steel)	Thread Size	Grip F Min.	Range Max.	L ± .015	HD ±.010 ±.015*	HT ± .002	D Max.	IL Max.	LB ± .015	ILB Max.	ITD Ref.	Hole Size +.006/000
CAK2-0632-080	6-32 UNC	.020	.080	.420	.310	.019	.265	.305	.740	.640	.610	.266
CAK2-0632-130	6-32 UNC	.080	.130	.470	.310	.019	.265	.305	.740	.580	.670	.266
CAK2-0832-080	8-32 UNC	.020	.080	.420	.310	.019	.265	.305	.740	.640	.610	.266
CAK2-0832-130	8-32 UNC	.080	.130	.470	.310	.019	.265	.305	.740	.580	.670	.266
CAK2-1024-130	10-24 UNC	.020	.130	.475	.340	.019	.296	.315	.990	.845	.730	.297
CAK2-1024-225	10-24 UNC	.130	.225	.585	.340	.019	.296	.315	.990	.735	.840	.297
CAK2-1032-130	10-32 UNF	.020	.130	.475	.340	.019	.296	.315	.990	.845	.730	.297
CAK2-1032-225	10-32 UNF	.130	.225	.585	.340	.019	.296	.315	.990	.735	.840	.297
CAK2-2520-165	1/4-20 UNC	.027	.165	.580	.455	.022	.390	.380	1.190	1.005	.895	.391
CAK2-2520-260	1/4-20 UNC	.165	.260	.680	.455	.022	.390	.380	1.190	.905	1.035	.391
CAK2-2528-165	1/4-28 UNF	.027	.165	.580	.455	.022	.390	.380	1.190	1.005	.895	.391
CAK2-2528-260	1/4-28 UNF	.165	.260	.680	.455	.022	.390	.380	1.190	.905	1.035	.391
CAK2-3118-150	5/16-18 UNC	.027	.150	.690	.595*	.022	.530	.470	1.390	1.175	.995	.531
CAK2-3118-312	5/16-18 UNC	.150	.312	.805	.595*	.022	.530	.425	1.390	1.025	1.120	.531
CAK2-3124-150	5/16-24 UNF	.027	.150	.690	.595*	.022	.530	.470	1.390	1.175	.995	.531
CAK2-3124-312	5/16-24 UNF	.150	.312	.805	.595*	.022	.530	.425	1.390	1.025	1.120	.531
CAK2-3716-150	3/8-16 UNC	.027	.150	.690	.595*	.022	.530	.470	1.390	1.175	.995	.531
CAK2-3716-312	3/8-16 UNC	.150	.312	.805	.595*	.022	.530	.425	1.390	1.025	1.120	.531
CAK2-3724-150	3/8-24 UNF	.027	.150	.690	.595*	.022	.530	.470	1.390	1.175	.995	.531
CAK2-3724-312	3/8-24 UNF	.150	.312	.805	.595*	.022	.530	.425	1.390	1.025	1.120	.531

	METRIC THREAD (UNIT - MILLIMETERS)														
	Part Number	Thread Size	Grip F	Range	L	HD	нт	D	IL	LB	ILB	ITD	Hole Size		
١	(Steel)		Min.	Max.	± .38	±.25 ±.38*	± .05	Max.	Max.	± .38	Max.	Ref.	+.15/000		
	CAK2-470-2.0	M4x0.7 ISO	0.50	2.00	10.67	7.87	0.48	6.73	7.75	18.80	16.26	15.49	6.75		
ı	CAK2-470-3.3	M4x0.7 ISO	2.00	3.30	11.94	7.87	0.48	6.73	7.75	18.80	14.73	17.02	6.75		
	CAK2-580-3.3	M5x0.8 ISO	0.50	3.30	12.07	8.64	0.48	7.52	8.00	25.15	21.46	18.54	7.60		
ı	CAK2-580-5.7	M5x0.8 ISO	3.30	5.70	14.86	8.64	0.48	7.52	8.00	25.15	18.67	21.34	7.60		
١	CAK2-610-4.2	M6x1.0 ISO	0.70	4.20	14.73	11.56	0.55	9.91	9.65	30.23	25.53	22.73	10.00		
ı	CAK2-610-6.6	M6x1.0 ISO	4.20	6.60	17.27	11.56	0.55	9.91	9.65	30.23	22.99	26.29	10.00		
١	CAK2-8125-3.8	M8x1.25 ISO	0.70	3.80	17.53	15.11*	0.55	13.46	11.94	35.31	29.85	25.27	13.50		
ı	CAK2-8125-7.9	M8x1.25 ISO	3.80	7.90	20.45	15.11*	0.55	13.46	10.80	35.31	26.04	28.45	13.50		
	CAK2-1015-3.8	M10x1.5 ISO	0.70	3.80	17.53	15.11*	0.55	13.46	11.94	35.31	29.85	25.27	13.50		
	CAK2-1015-7.9	M10x1.5 ISO	3.80	7.90	20.45	15.11*	0.55	13.46	10.80	35.31	26.04	28.45	13.50		

PART NUMBERING SYSTEM

Plated-Clear Trivalent Chromate

CAK Specifications Part Number Material: Steel 1008/1010 Example: CAK2-2520-165

Stainless Steel 302*

Aluminum 5056 CAK 2520 165

Product Style Material Thread Size Grip Range Empty-Open End Zinc Plated-Yellow Dichromate Small Flange 1-Stainless Steel B-Closed End T-Clear Trivalent

per ASTM B633 Fe/Zn 8, Type II Knurled Body 2-Steel

per Sherex spec SFS-01-003, SC-1 Thin Wall Series 3-Aluminum RoHS Compliant: Zinc

Special finish or material available upon request per Sherex SFS-01-001

*Contact Sherex for exact product dimensions in Stainless Steel.

Grip range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application.

Contact Sherex for details.

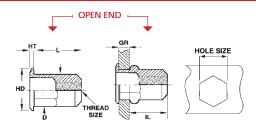
CAK style rivet nuts are available in closed end designs. Other specials available upon request. Contact Sherex for test data.

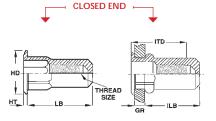
INSTALLATION TOOLING
CAK Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.

> Sherex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8 Please contact Sherex when using other grade fasteners



CAH HALF HEX BODY LARGE FLANGE THIN WALL SERIES





UNIFIED THREAD (UNIT - INCHES)

Part Number	Thread Size	Grip F	Range	L	HD	нт	D (A/F)	IL	LB	ILB	ITD	Hole Size (A/F)
(Steel)		Min.	Max.	± .015	±.010 ±.025*	± .003	Max.	Max.	± .015	Max.	Ref.	+.004/000
CAH2-0632-080	6-32 UNC	.020	.080	.385	.375	.027	.249	.295	.740	.640	.575	.250
CAH2-0632-130	6-32 UNC	.080	.130	.435	.375	.027	.249	.295	.740	.580	.640	.250
CAH2-0832-080	8-32 UNC	.020	.080	.385	.375	.027	.249	.295	.740	.640	.575	.250
CAH2-0832-130	8-32 UNC	.080	.130	.435	.375	.027	.249	.295	.740	.580	.640	.250
CAH2-1024-130	10-24 UNC	.020	.130	.435	.390	.027	.280	.275	1.030	.845	.695	.281
CAH2-1024-225	10-24 UNC	.130	.225	.535	.390	.027	.280	.275	1.030	.735	.805	.281
CAH2-1032-130	10-32 UNF	.020	.130	.435	.390	.027	.280	.275	1.030	.845	.695	.281
CAH2-1032-225	10-32 UNF	.130	.225	.535	.390	.027	.280	.275	1.030	.735	.805	.281
CAH2-2520-165	1/4-20 UNC	.027	.165	.585	.510	.030	.374	.400	1.190	1.015	.945	.375
CAH2-2520-260	1/4-20 UNC	.165	.260	.685	.510	.030	.374	.400	1.190	.915	1.085	.375
CAH2-2528-165	1/4-28 UNF	.027	.165	.585	.510	.030	.374	.400	1.190	1.015	.945	.375
CAH2-2528-260	1/4-28 UNF	.165	.260	.685	.510	.030	.374	.400	1.190	.915	1.085	.375
CAH2-3118-150	5/16-18 UNC	.027	.150	.685	.655*	.035	.499	.530	1.445	1.235	1.045	.500
CAH2-3118-312	5/16-18 UNC	.150	.312	.845	.655*	.035	.499	.515	1.445	1.220	1.170	.500
CAH2-3124-150	5/16-24 UNF	.027	.150	.685	.655*	.035	.499	.530	1.445	1.235	1.045	.500
CAH2-3124-312	5/16-24 UNF	.150	.312	.845	.655*	.035	.499	.515	1.445	1.220	1.170	.500
CAH2-3716-150	3/8-16 UNC	.027	.150	.685	.655*	.035	.499	.530	1.445	1.235	1.045	.500
CAH2-3716-312	3/8-16 UNC	.150	.312	.845	.655*	.035	.499	.515	1.445	1.220	1.170	.500
CAH2-3724-150	3/8-24 UNF	027	.150	.685	.655*	.035	.499	.530	1.445	1.235	1.045	.500
CAH2-3724-312	3/8-24 UNF	.150	.312	.845	.655*	.035	.499	.515	1.445	1.220	1.170	.500

METRIC THREAD (UNIT - MILLIMETERS)

Part Number	Thread Size	Grip F	Range	L	HD	нт	D (A/F)	IL	LB	ILB	ITD	Hole Size (A/F)
(Steel)		Min.	Max.	± .38	±.25 ±.64*	± .08	Max.	Max.	± .38	Max.	Ref.	+.10/000
CAH2-470-2.0	M4x0.7 ISO	0.50	2.00	9.78	9.53	0.68	6.35	7.49	18.80	16.26	14.61	6.35
CAH2-470-3.3	M4x0.7 ISO	2.00	3.30	11.05	9.53	0.68	6.35	7.49	18.80	14.73	16.26	6.35
CAH2-580-3.3	M5x0.8 ISO	0.50	3.30	11.05	9.91	0.68	7.10	6.99	26.16	21.46	17.65	7.14
CAH2-580-5.7	M5x0.8 ISO	3.30	5.70	13.59	9.91	0.68	7.10	6.99	26.16	18.67	20.45	7.14
CAH2-610-4.2	M6x1.0 ISO	0.70	4.20	14.86	12.96	0.76	9.50	10.16	30.23	25.78	24.00	9.53
CAH2-610-6.6	M6x1.0 ISO	4.20	6.60	17.40	12.96	0.76	9.50	10.16	30.23	23.24	27.56	9.53
CAH2-8125-3.8	M8x1.25 ISO	0.70	3.80	17.40	16.64*	0.89	12.70	13.46	36.70	31.37	26.54	12.70
CAH2-8125-7.9	M8x1.25 ISO	3.80	7.90	21.46	16.64*	0.89	12.70	13.08	36.70	30.99	29.72	12.70
CAH2-1015-3.8	M10x1.5 ISO	0.70	3.80	17.40	16.64*	0.89	12.70	13.46	36.70	31.37	26.54	12.70
CAH2-1015-7.9	M10x1.5 ISO	3.80	7.90	21.46	16.64*	0.89	12.70	13.08	36.70	30.99	29.72	12.70

PART NUMBERING SYSTEM

CAH Specifications Part Number

Material: Steel 1008/1010 Example: CAH2-2520-165

Stainless Steel 302*
Aluminum 5056 CAH 2 2520 165 (

Finish: Zinc Plated-Yellow Dichromate Finish: Zinc Plated-Yellow Dichr

Zinc Plated-Yellow Dichromate Semi Hex 1-Stainless Steel Clear B-Closed End per ASTM B633 Fe/Zn 8, Type II Thin Wall Series 2-Steel T-Clear Trivalent

per ASTM B633 Fe/Zn 8, Type II Thin Wall Series 2-Steel T-Clear Trivalent per Sherex spec SFS-01-003, SC-1 3-Aluminum

RoHS Compliant: Zinc Plated-Clear Trivalent Chromate

per Sherex SFS-01-001 Special finish or material available upon request

*Contact Sherex for exact product dimensions in Stainless Steel.

Grip range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application.

Contact Sherex for details.

CAH style rivet nuts are available in sealed head and closed end designs. Other specials available upon request.

Contact Sherex for test data

INSTALLATION TOOLING

CAH Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.

Sherex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8 Please contact Sherex when using other grade fasteners.

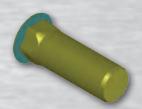




• The CAH series offers a semi hex body for excellent resistance to spin out in the hole.



CLOSED END



SEALED HEAD



series



- The CA series offers a thick head and thick collapse chamber wall thickness for heavy duty applications.
- Available with a countersunk head style for a flush installation.
- Available in a keyed head style for reduced spin out



CLOSED END



COUNTERSUNK HEAD



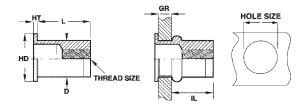
KEYED HEAD

MS/NAS available. **Contact Sherex for** more information.





CA HEAVY DUTY RIVET NUT FLAT HEAD SERIES



UNIFIED T	HREAD (JNIT	- IN	ICHES)				
Part Number	Thread Size	Grip F	Range	L	HD	нт	D	IL	Hole Size
(Steel)		Min.	Max.	± .015	± .015	Nom.	+.000/004	Ref.	+.003/000
CA-0440S-060	4-40 UNC	.010	.060	.345	.270	.025	.155	.230	.155
CA-0440S-085	4-40 UNC	.060	.085	.370	.270	.025	.155	.230	.155
CA-0440S-110	4-40 UNC	.085	.100	.400	.270	.025	.155	.230	.155
CA-0632S-075	6-32 UNC	.010	.075	.438	.325	.032	.189	.300	.189
CA-0632S-120	6-32 UNC	.075	.120	.500	.325	.032	.189	.315	.189
CA-0632S-160	6-32 UNC	.120	.160	.500	.325	.032	.189	.270	.189
CA-0832S-075	8-32 UNC	.010	.075	.438	.357	.032	.221	.300	.221
CA-0832S-120	8-32 UNC	.075	.120	.500	.357	.032	.221	.315	.221
CA-0832S-160	8-32 UNC	.120	.160	.500	.357	.032	.221	.270	.221
CA-1024S-080	10-24 UNC	.010	.080	.531	.406	.038	.250	.380	.250
CA-1024S-130	10-24 UNC	.080	.130	.594	.406	.038	.250	.390	.250
CA-1024S-180	10-24 UNC	.130	.180	.641	.406	.038	.250	.390	.250
CA-1032S-080	10-32 UNF	.010	.080	.531	.406	.038	.250	.380	.250
CA-1032S-130	10-32 UNF	.080	.130	.594	.406	.038	.250	.390	.250
CA-1032S-180	10-32 UNF	.130	.180	.641	.406	.038	.250	.390	.250
CA-2520S-080	1/4-20 UNC	.020	.080	.625	.475	.058	.332	.450	.332
CA-2520S-140	1/4-20 UNC	.080	.140	.687	.475	.058	.332	.450	.332
CA-2520S-200	1/4-20 UNC	.140	.200	.750	.475	.058	.332	.450	.332
CA-3118S-125	5/16-18 UNC	.030	.125	.750	.665	.062	.413	.505	.413
CA-3118S-200	5/16-18 UNC	.125	.200	.875	.665	.062	.413	.555	.413
CA-3118S-275	5/16-18 UNC	.200	.275	.937	.655	.062	.413	.540	.413
CA-3716S-115	3/8-16 UNC	.030	.115	.844	.781	.088	.490	.585	.490
CA-3716S-200	3/8-16 UNC	.115	.200	.938	.781	.088	.490	.595	.490
CA-3716S-285	3/8-16 UNC	.200	.285	1.031	.781	.088	.490	.605	.490
CA-5013S-150	1/2-13 UNC	.050	.150	.906	.906	.085	.625	.605	.625
CA-5013S-250	1/2-13 UNC	.150	.250	1.031	.906	.085	.625	.630	.625
CA-5013S-350	1/2-13 UNC	.250	.350	1.141	.906	.085	.625	.640	.625

PART NUMBERING SYSTEM

RoHS Compliant: Zinc

Part Number **CA Specifications**

Material: Steel 1008/1010/1110 Example: CA-2520S-080

Non-Magnetic Stainless Steel 302

Stainless Steel 430

Aluminum 5056/6053 Product Style Thread Size Empty-Open End S-Steel Grip Range

Heavy Duty A-Aluminum B-Closed End Finish:

Large Flange Zinc Plated-Clear Dichromate SS-Stainless Steel 430 T-Clear Trivalent Smooth Shank

per ASTM B633 Fe/Zn 8, Type II NM-Stainless Steel 302 per Sherex spec SFS-01-003, SC-1

Plated-Clear Trivalent Chromate Special finish or material available upon request per Sherex SFS-01-001

Material

Grip range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. Contact Sherex for details.

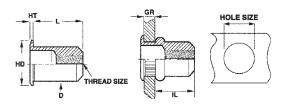
CA style rivet nuts are available in closed end, keyed, and countersunk head designs. Other specials available upon request. Contact Sherex for test data.

INSTALLATION TOOLING

CA Series can be installed with our Hand Tools, and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.

> Sherex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8 Please contact Sherex when using other grade fasteners

CAO SMALL FLANGE SMOOTH BODY THIN WALL SERIES



UNIFIED THREAD (UNIT - INCHES)

	Part Number	Thread Size	Grip F	Range	L	HD	нт	D	IL	Hole Size
1	(Steel)		Min.	Max.	± .015	± .010 ±.015*	± .003	Max.	Max.	+.006/000
1	CAO2-0632-080	6-32 UNC	.020	.080	.385	.295	.018	.249	.315	.250
1	CAO2-0832-080	8-32 UNC	.020	.080	.385	.295	.018	.249	.315	.250
1	CAO2-1024-130	10-24 UNC	.020	.130	.440	.320	.020	.280	.330	.281
1	CAO2-1032-130	10-32 UNF	.020	.130	.440	.320	.020	.280	.330	.281
1	CAO2-2520-165	1/4-20 UNC	.030	.165	.580	.425	.022	.374	.440	.375
1	CAO2-2528-165	1/4-28 UNF	.030	.165	.580	.425	.022	.374	.440	.375
١	CAO2-3118-200	5/16-18 UNC	.040	.200	.690	.560*	.022	.499	.540	.500
1	CAO2-3124-200	5/16-24 UNF	.040	.200	.690	.560*	.022	.499	.540	.500
١	CAO2-3716-200	3/8-16 UNC	.040	.200	.690	.560*	.022	.499	.540	.500
١	CAO2-3724-200	3/8-24 UNF	.040	.200	.690	.560*	.022	.499	.540	.500

METRIC THREAD (UNIT - MILLIMETERS)

Part Number	Thread Size	Grip F	Range	L	HD	НТ	D	IL	Hole Size
(Steel)		Min.	Max.	± .38	± .25 ± .38*	± .08	Max.	Max.	+.15/000
CAO2-470-2.0	M4x0.7 ISO	0.50	2.00	9.78	7.49	0.46	6.32	8.00	6.40
CAO2-580-3.3	M5x0.8 ISO	0.50	3.30	11.18	8.13	0.51	7.11	8.38	7.20
CAO2-610-4.2	M6x1.0 ISO	0.76	4.20	14.73	10.80	0.56	9.50	11.18	9.60
CAO2-8125-5.1	M8x1.25 ISO	1.02	5.10	17.53	14.22*	0.56	12.67	13.72	12.70
CAO2-1015-5.1	M10x1.5 ISO	1.02	5.10	17.53	14.22*	0.56	12.67	13.72	12.70

PART NUMBERING SYSTEM

CAO Specifications Part Number

Material: Steel 1008/1010 Example: CAO2-2520-165

Aluminum 5056

CAO 2520 165 Grip Range

Product Style Material Thread Size Finish: Inch: Zinc Plated Low Profile 2-Steel per ASTM B633 Fe/Zn 8, Type III

Empty-Open End B-Closed End Smooth Shank 3-Aluminum T-Clear Trivalent

Thin Wall Series

Metric: Plated Yellow Dichromate per ASTM B633 Fe/Zn 8, Type II per Sherex spec SFS-01-003, SC-1 RoHS Compliant: Zinc Plated-Clear Trivalent Chromate per Sherex SFS-01-001

Special finish or material available upon request

Grip range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. Contact Sherex for details. Contact Sherex for test data

INSTALLATION TOOLING

CAO Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.

> Sherex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8 Please contact Sherex when using other grade fasteners.





- The CAO series offers a line of body diameters that will fit in common hole sizes.
- The small flange head also allows for near flush installations.



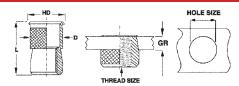
CLOSED END

CFW/ CAW series



- The CFW/CAW series offers a knurled body for increased spin out resistance in soft materials such as fiberglass and plywood.
- Increased wall thickness gives increased shear strength.
- Cadmium Free finish allows the CFW Series to be used in any industry, including automotive.

CFW/CAW DIAMOND KNURLED 360° SWAGING SERIES



Material thickness .062"/1.57 min

UNIFIED THREAD (UNIT - INCHES)

Part Number (Steel)	Thread Size	Cadmium Free & RoHS Compliant	HD ± .005	L ± .015	D Max.	Hole Size +.005/00
CAW2-0632	6-32 UNC	N	.255	.370	.233	.234
CAW2-0832	8-32 UNC	N	.285	.370	.264	.266
CAW2-1024	10-24 UNC	N	.320	.370	.295	.297
CAW2-1032	10-32 UNF	N	.320	.370	.295	.297
CAW2-2520	1/4-20 UNC	N	.415	.515	.389	.391
CAW2-3118	5/16-18 UNC	N	.550	.615	.528	.531
CAW2-3716	3/8-16 UNC	N	.615	.740	.590	.594
CFW2-0632	6-32 UNC	Υ	.255	.370	.233	.234
CFW2-0832	8-32 UNC	Υ	.285	.370	.264	.266
CFW2-1024	10-24 UNC	Υ	.320	.370	.295	.297
CFW2-1032	10-32 UNF	Υ	.320	.370	.295	.297
CFW2-2520	1/4-20 UNC	Υ	.415	.515	.389	.391
CFW2-3118	5/16-18 UNC	Υ	.550	.615	.528	.531
CFW2-3716	3/8-16 UNC	Υ	.615	.740	.590	.594

METRIC THREAD (UNIT - MILLIMETERS)

Ī	Part Number (Steel)	Thread Size	Cadmium Free & RoHS Compliant	HD ± .13	L ± .38	D Max.	Hole Size +.13/00
	CAW2-470	M4X0.7 ISO	N	7.24	9.40	6.71	6.75
	CAW2-580	M5X0.8 ISO	N	8.13	9.40	7.50	7.54
	CAW2-610	M6X1.0 ISO	N	10.54	13.08	9.88	9.92
	CAW2-8125	M8X1.25 ISO	N	13.97	15.62	13.41	13.49
	CAW2-1015	M10X1.5 ISO	N	15.62	18.80	14.99	15.00
	CFW2-470	M4X0.7 ISO	Υ	7.24	9.40	6.71	6.75
	CFW2-580	M5X0.8 ISO	Υ	8.13	9.40	7.50	7.54
	CFW2-610	M6X1.0 ISO	Υ	10.54	13.08	9.88	9.92
	CFW2-8125	M8X1.25 ISO	Υ	13.97	15.62	13.41	13.49
Т	CFW2-1015	M10X1.5 ISO	Y	15.62	18.80	14.99	15.00

PART NUMBERING SYSTEM

CFW/CAW Specifications Material: Stainless Steel, 304 L

Stainless Steel, 304 L Example: CAW2-2520 Steel, 12L14

Steel, 1215 CAW 2 2520
Cadmium W series Material Thread Size
Featuring 360° Swaging 1-Stainless Steel

Part Number

Finish: CAW is Cadmium Plated

per QQP-416 Type 1, Class 3 with clear protective coating

CFW is Proprietary Tin Plated

Special finish or material available upon request

3-Aluminum

2-Steel

*CFW and CAW rivet nut styles are dimensionally the same. CFW is Cadmium Free and RoHS Compliant.

Actual hole size can be affected by parent material and material thickness. Contact Sherex for details. CFW/CAW series available in different finishes. Other specials available upon request. Contact Sherex for test data.

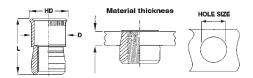
INSTALLATION TOOLING

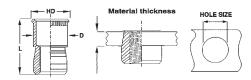
CFW/CAW Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.

Sherex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8 Please contact Sherex when using other grade fasteners.



CFT/CAT KNURLED 360° SWAGING SERIES





UNIFIED THREAD (UNIT - INCHES)

						Re	ecommended H	lole Size +.005/	00
Part Number (Steel)	Thread Size	Cadmium Free & RoHS Compliant	HD ± .005	L ± .015	D Max.	MAT. THICK .030090	MAT. THICK .091124	MAT. THICK .125186	MAT. THICK .187-Over
CAT2-0440	4-40 UNC	N	.211	.370	.1875	.1875	.1935	.1935	.1960
CAT2-0632	6-32 UNC	N	.240	.370	.2185	.2188	.2210	.2280	.2280
CAT2-0832	8-32 UNC	N	.269	.370	.2495	.2500	.2570	.2656	.2656
CAT2-1024	10-24 UNC	N	.306	.370	.2805	.2812	.2900	.2900	.2969
CAT2-1032	10-32 UNF	N	.306	.370	.2805	.2812	.2900	.2900	.2969
CAT2-2520	1/4-20 UNC	N	.400	.515	.3745	.3750	.3750	.3860	.3906
CAT2-3118	5/16-18 UNC	N	.528	.615	.4995	.5000	.5000	.5156	.5156
CAT2-3716	3/8-16 UNC	N	.588	.745	.5615	.5625	.5625	.5781	.5781
CAT2-5013	1/2-13 UNC	N	.800	.935	.7485	.7500	.7656	.7810	.7970
CFT2-0440	4-40 UNC	Y	.211	.370	.1875	.1875	.1935	.1935	.1960
CFT2-0632	6-32 UNC	Y	.240	.370	.2185	.2188	.2210	.2280	.2280
CFT2-0832	8-32 UNC	Y	.269	.370	.2495	.2500	.2570	.2656	.2656
CFT2-1024	10-24 UNC	Y	.306	.370	.2805	.2812	.2900	.2900	.2969
CFT2-1032	10-32 UNF	Y	.306	.370	.2805	.2812	.2900	.2900	.2969
CFT2-2520	1/4-20 UNC	Y	.400	.515	.3745	.3750	.3750	.3860	.3906
CFT2-3118	5/16-18 UNC	Y	.528	.615	.4995	.5000	.5000	.5156	.5156
CFT2-3716	3/8-16 UNC	Y	.588	.745	.5615	.5625	.5625	.5781	.5781
CFT2-5013	1/2-13 UNC	Y	.800	.935	.7485	.7500	.7656	.7810	.7970

METRIC THREAD (UNIT - MILLIMETERS)

						R	ecommended H	lole Size +.13/-	.00
Part Number (Steel)	Thread Size	Cadmium Free & RoHS Compliant	HD ± .13	L ± .38	D Max.	MAT. THICK 0.76-2.29	MAT. THICK 2.31-3.15	MAT. THICK 3.17-4.72	MAT. THICK 4.72-Over
CAT2-350	M3X0.5 ISO	N	5.36	9.40	4.76	4.75	4.90	4.90	4.97
CAT2-470	M4X0.7 ISO	N	6.83	9.40	6.34	6.35	6.52	6.74	6.74
CAT2-580	M5X0.8 ISO	N	7.77	9.40	7.12	7.14	7.36	7.36	7.54
CAT2-610	M6X1.0 ISO	N	10.16	13.08	9.51	9.52	9.52	9.80	9.92
CAT2-8125	M8X1.25 ISO	N	13.41	15.62	12.69	12.70	12.70	13.09	13.09
CAT2-1015	M10X1.5 ISO	N	14.94	18.92	14.26	14.28	14.28	14.68	14.68
CAT2-12175	M12X1.75 ISO	N	20.32	23.75	19.01	19.05	19.44	19.83	20.24
CFT2-350	M3X0.5 ISO	Υ	5.36	9.40	4.76	4.75	4.90	4.90	4.97
CFT2-470	M4X0.7 ISO	Υ	6.83	9.40	6.34	6.35	6.52	6.74	6.74
CFT2-580	M5X0.8 ISO	Υ	7.77	9.40	7.12	7.14	7.36	7.36	7.54
CFT2-610	M6X1.0 ISO	Y	10.16	13.08	9.51	9.52	9.52	9.80	9.92
CFT2-8125	M8X1.25 ISO	Υ	13.41	15.62	12.69	12.70	12.70	13.09	13.09
CFT2-1015	M10X1.5 ISO	Υ	14.94	18.92	14.26	14.28	14.28	14.68	14.68
CFT2-12175	M12X1.75 ISO	Y	20.32	23.75	19.01	19.05	19.44	19.83	20.24

PART NUMBERING SYSTEM

CFT/CAT Specifications Part Number
Material: Stainless Steel, 304 L Example: CAT2-2520

 Steel, 12L14

 Steel, 1215
 CAT
 2
 2520

 Cadmium T series
 Material
 Thread Size

Finish: CAT is Cadmium Plated

Featuring 360° Swaging

1-Stainless Steel
2-Steel

2-Steel

per QQP-416 Type 1, Class 3 with clear protective coating 3-Aluminum

CFT is Proprietary Tin Plated

Special finish or material available upon request

*CFT and CAT rivet nut styles are dimensionally the same. CFT is Cadmium Free and RoHS Compliant.

Actual hole size can be affected by parent material and material thickness. Contact Sherex for details. CFT/CAT series available in different finishes. Other specials available upon request. Contact Sherex for test data.

INSTALLATION TOOLING

CFT/CAT Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.

Sherex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8 Please contact Sherex when using other grade fasteners.





- The CFT/CAT series offers one rivet nut for materials of any thickness greater than .030 inches.
- Cadmium Free finish allows the CFT Series to be used in any industry, including automotive.
- CFT series should be used in metal applications.



CPB



- The CPB series offers a large grip range for installation into single, variable or multiple thickness materials.
- Large backside footprint provides increased pull out resistance.
- The CPB Series can be installed into thin plastics and will not distort the base material.



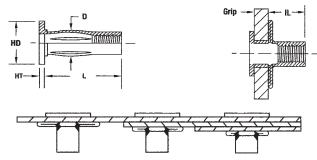
WEDGE HEAD



TRIM HEAD

CPB PREBULBED SLOTTED BODY SERIES





Installs into single, variable, or multiple thickness materials.

UNIFIED TH	IREAD (U	NIT ·	· INC	HES)					
Part Number	Thread Size	Grip F	Range	Н	D	L	HT	D	IL	Hole Size
(Steel)		Min.	Max.	Min.	Max.	±.015	±.005	Max.	Ref.	+.006/000
CPB2-1024-175	10-24 UNC	.020	.175	.490	.510	.828	.038	.329	.410	.336
CPB2-1024-320	10-24 UNC	.175	.320	.490	.510	.921	.038	.329	.410	.336
CPB2-1032-175	10-32 UNF	.020	.175	.490	.510	.828	.038	.329	.410	.336
CPB2-1032-320	10-32 UNF	.175	.320	.490	.510	.921	.038	.329	.410	.336
CPB2-2520-280	1/4-20 UNC	.020	.280	.610	.645	1.000	.059	.382	.505	.390
CPB2-2520-500	1/4-20 UNC	.280	.500	.610	.645	1.234	.059	.382	.505	.390
CPB2-3118-280	5/16-18 UNC	.020	.280	.740	.770	1.141	.062	.495	.570	.500
CPB2-3118-500	5/16-18 UNC	.280	.500	.740	.770	1.375	.062	.495	.570	.500

METRIC TH	READ (UI	VIT -	MIL	LIME	TER	s)				
Part Number	Thread Size	Grip F	Range	Н	D	L	нт	D	IL	Hole Size
(Steel)		Min.	Max.	Min.	Max.	±.0.38	±.0.13	Max.	Ref.	+.15/000
CPB2-580-4.45	M5x0.8 ISO	0.50	4.45	12.45	12.95	21.03	0.96	8.35	10.00	8.55
CPB2-580-8.1	M5x0.8 ISO	4.45	8.10	12.45	12.95	23.80	0.96	8.35	10.00	8.55
CPB2-610-7.1	M6x1.0 ISO	0.50	7.10	15.50	16.38	25.40	1.50	9.70	12.80	10.00
CPB2-610-12.7	M6x1.0 ISO	7.10	12.70	15.50	16.38	31.32	1.50	9.70	12.80	10.00
CPB2-8125-7.1	M8x1.25 ISO	0.50	7.10	18.80	19.65	28.95	1.57	12.57	14.48	12.70
CPB2-8125-12.7	M8x1.25 ISO	7.10	12.70	18.80	19.65	34.90	1.57	12.57	14.48	12.70

PART NUMBERING SYSTEM

per Sherex SFS-01-001

CPB Specifications Part Number

Material: Steel 1008/1010 Example: CPB2-2520-280

Aluminum 5056

2520 280 Finish: Zinc Plated-Yellow Dichromate Product Style 2-Steel Thread Size Grip Range Empty-Open End

per ASTM B633 Fe/Zn 8, Type II Slotted Body 3-Aluminum

B-Closed End per Sherex spec SFS-01-003, SC-1 Pre-bulbed T-Clear Trivalent W-Wedge Head RoHS Compliant: Zinc TR-Trim Head Plated-Clear Trivalent Chromate

Special finish or material available upon request

Grip range can be affected by parent material and hole size. Sherex recommends trials installations to determine the proper grip range for the application. Contact Sherex for details Contact Sherex for test data.

INSTALLATION TOOLING

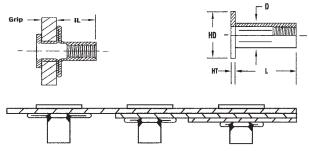
CPB Series can be installed with our Hand Tools, Pneumatic Tools, and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.

> Sherex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8 Please contact Sherex when using other grade fasteners



CPN STRAIGHT SHANK SLOTTED BODY SERIES





Installs into single, variable, or multiple thickness materials.

Į	JNIFIED TH	IREAD (U	NIT	- INC	CHES	3)					
	Part Number	Thread Size	Grip F	Range	Н	ID	L	нт	D	IL	Hole Size
L	(Steel)		Min.	Max.	Min.	Max	± .015	± .005	Max.	Ref.	+.006/000
	CPN2-1024-175	10-24 UNC	.020	.175	.490	.510	.781	.038	.272	.425	.273
	CPN2-1024-320	10-24 UNC	.175	.320	.490	.510	.921	.038	.272	.425	.273
	CPN2-1032-175	10-32 UNF	.020	.175	.490	.510	.781	.038	.272	.425	.273
L	CPN2-1032-320	10-32 UNF	.175	.320	.490	.510	.921	.038	.272	.425	.273
	CPN2-2520-280	1/4-20 UNC	.020	.280	.610	.645	1.000	.059	.346	.505	.347
L	CPN2-2520-500	1/4-20 UNC	.280	.500	.610	.645	1.234	.059	.346	.505	.347
	CPN2-3118-280	5/16-18 UNC	.020	.280	.740	.770	1.141	.062	.437	.570	.438
١	CPN2-3118-500	5/16-18 UNC	.280	.500	.740	.770	1.375	.062	.437	.570	.438

METRIC THI	READ (UI	TIV	MIL	LIME	TER	s)				
Part Number	Thread Size	Grip F	Range	Н	ID	L	HT	D	IL	Hole Size
(Steel)		Min.	Max.	Min.	Max	± 0.38	± .13	Max.	Ref.	+.15/-0.00
CPN2-580-4.45	M5x0.8 ISO	0.50	4.45	12.45	12.95	21.03	0.96	7.47	9.90	7.48
CPN2-580-8.1	M5x0.8 ISO	4.45	8.10	12.45	12.95	23.80	0.96	7.47	9.90	7.48
CPN2-610-7.1	M6x1.0 ISO	0.50	7.10	15.50	16.38	25.40	1.50	8.79	12.80	8.80
CPN2-610-12.7	M6x1.0 ISO	7.10	12.70	15.50	16.38	31.32	1.50	8.79	12.80	8.80
CPN2-8125-7.1	M8x1.25 ISO	0.50	7.10	18.80	19.65	28.95	1.57	11.10	14.48	11.11
CPN2-8125-12.7	M8x1.25 ISO	7.10	12.70	18.80	19.65	34.90	1.57	11.10	14.48	11.11

PART NUMBERING SYSTEM

CPN Specifications Part Number

Material: Steel 1008/1010 Example: CPN2-2520-280

Aluminum 5056

Finish: Zinc Plated-Yellow Dichromate Product Style 2-Steel Thread Size Grip Range Empty-Open End per ASTM B633 Fe/Zn 8, Type II Slotted Body 3-Aluminum B-Closed End per Sherex spec SF5-01-003. SC-1 Straight Shank T-Clear Trivalent

2520

280

per Sherex spec SFS-01-003, SC-1 Straight Shank T-Clear Trivalent

RoHS Compliant: Zinc W-Wedge Head

Plated-Clear Trivalent Chromate
per Sherex SFS-01-001 Special finish or material available upon request

Grip range can be affected by parent material and hole size.

Sherex recommends trials installations to determine the proper grip range for the application.

Contact Sherex for details.

Contact Sherex for test data.

INSTALLATION TOOLING

CPN Series must be installed with spin pull tooling. For more information see pages 33-38.

Sherex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8 Please contact Sherex when using other grade fasteners.

CPN series



- The CPN series offers a large grip range for installation into single, variable or multiple thickness materials.
- Large backside footprint provides increased pull out resistance.
- The CPN series can be installed into thin plastics and will not distort the base material.
- CPN must be installed with spin-pull installation tooling.



WEDGE HEAD



CFH/ **CFHD** series

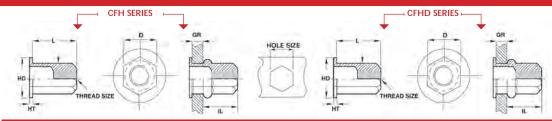


• The CFH series offers a full hexagonal body for exceptional spin out resistance



• The CFHD series offers the same benefits as the CFH series but with higher strength.

CFH & CFHD FULL HEX BODY SERIES



CFH UNIFI	ED THREA	70 (r	TINL	- IN	CHE	s)				
SHEREX Part Number	Thread Size	Grip I Min.	Range Max.	H Min.	Max.	L ± .015	HT Nom.	D (A/F) Max.	IL Ref.	Hole Size (A/F) +.005/000
CFH2-1024-085	10-24 UNC	.010	.085	.329	.359	.344	.043	.223	.200	.224
CFH2-1024-135	10-24 UNC	.085	.135	.329	.359	.406	.043	.223	.210	.224
CFH2-1024-185	10-24 UNC	.135	.185	.329	.359	.453	.043	.223	.210	.224
CFH2-1032-085	10-32 UNF	.010	.085	.329	.359	.344	.043	.223	.200	.224
CFH2-1032-135	10-32 UNF	.085	.135	.329	.359	.406	.043	.223	.210	.224
CFH2-1032-185	10-32 UNF	.135	.185	.329	.359	.453	.043	.223	.210	.224
CFH2-2520-085	1/4-20 UNC	.020	.085	.422	.452	.406	.043	.296	.250	.297
CFH2-2520-145	1/4-20 UNC	.085	.145	.422	.452	.469	.043	.296	.250	.297
CFH2-2520-205	1/4-20 UNC	.145	.205	.422	.452	.531	.043	.296	.250	.297
CFH2-3118-105	5/16-18 UNC	.030	.105	.547	.577	.562	.048	.368	.375	.369
CFH2-3118-175	5/16-18 UNC	.105	.175	.547	.577	.640	.048	.368	.380	.369
CFH2-3118-245	5/16-18 UNC	.175	.245	.547	.577	.703	.048	.368	.375	.369
CFH2-3716-115	3/8-16 UNC	.030	.115	.641	.671	.625	.058	.437	.400	.438
CFH2-3716-205	3/8-16 UNC	.115	.205	.641	.671	.718	.058	.437	.405	.438
CFH2-3716-295	3/8-16 UNC	.205	.295	.641	.671	.812	.058	.437	.410	.438

_	CFH METR	IC THREA	D (u	TINI	- MI	LLIM	ETER	s)			
	SHEREX	Thread Cine	Grip F	Range	Н	D	L	НТ	D (A/F)	IL	Hole Size (A/F)
	Part Number	Thread Size	Min.	Max.	Min.	Max.	± .38	Nom.	Max.	Ref.	+.13/000
	CFH2-580-2.1	M5x0.8 ISO	0.50	2.15	9.14	9.90	10.30	1.09	6.35	6.72	6.35
	CFH2-580-3.5	M5x0.8 ISO	2.15	3.55	9.14	9.90	11.90	1.09	6.35	6.72	6.35
	CFH2-580-5.0	M5x0.8 ISO	3.55	5.05	9.14	9.90	13.48	1.09	6.35	6.72	6.35
	CFH2-610-2.1	M6x1.0 ISO	0.50	2.15	10.71	11.47	10.30	1.09	7.51	6.22	7.51
	CFH2-610-3.6	M6x1.0 ISO	2.15	3.65	10.71	11.47	11.90	1.09	7.51	6.22	7.51
	CFH2-610-5.2	M6x1.0 ISO	3.65	5.20	10.71	11.47	13.48	1.09	7.51	6.22	7.51
	CFH2-8125-2.5	M8x1.25 ISO	0.50	2.55	14.69	15.45	15.86	1.57	10.08	10.35	10.08
	CFH2-8125-4.5	M8x1.25 ISO	2.50	4.55	14.69	15.45	17.84	1.57	10.08	10.35	10.08
	CFH2-8125-6.6	M8x1.25 ISO	4.55	6.60	14.69	15.45	19.82	1.57	10.08	10.35	10.08
	CFH2-1015-2.9	M10x1.50 ISO	0.75	2.95	17.10	17.86	15.88	1.57	11.89	13.08	11.89
	CFH2-1015-5.2	M10x1.50 ISO	2.95	5.20	17.10	17.86	18.24	1.57	11.89	13.08	11.89
	CFH2-1015-7.5	M10x1.50 ISO	5.20	7.50	17.10	17.86	20.62	1.57	11.89	13.08	11.89

CFHD UNIFI	ED THRE	AD (UNI	r - ı	NCH	ES)				
SHEREX	Thread Size	Grip I	Range	Н	ID	L	нт	D (A/F)	IL	Hole Size (A/F)
Part Number	Thread Size	Min.	Max.	Min.	Max.	± .015	Nom.	Max.	Ref.	+.010/000
CFHD2-2520-080	1/4-20 UNC	.020	.080	.454	.484	.500	.058	.312	.340	.312
CFHD2-2520-150	1/4-20 UNC	.080	.150	.454	.484	.578	.058	.312	.345	.312
CFHD2-3118-100	5/16-18 UNC	.020	.100	.579	.609	.625	.062	.397	.405	.397
CFHD2-3118-180	5/16-18 UNC	.100	.180	.579	.609	.703	.062	.397	.405	.397
CFHD2-3716-125	3/8-16 UNC	.020	.125	.673	.703	.703	.088	.468	.450	.468
CFHD2-3716-230	3/8-16 UNC	.125	.230	.673	.703	.812	.088	.468	.450	.468

PART NUMBERING SYSTEM

CFH/CFHD Specifications

Material: Steel 1008/1010 Stainless Steel 302

Aluminum 5056 Zinc Plated - Yellow Dichromate

per ASTM B633 Fe/Zn 8, Type II RoHS Compliant: Zinc

Plated-Clear Trivalent Chromate per Sherex SFS-01-001

Part Number

Example: CFH2-2520-085

CFH 2520 Full Hex Thread Size Heavy Duty Large Flange

CFHD - High Strength

Material 1-Stainless Steel Empty-Open End B-Closed End

2-Steel 3-Aluminum

Special finish or material available upon request



CHEREV EACTENING COLUTIONS
SHEREX FASTENING SOLUTIONS

METRIC BODY STYLE RIVET NUTS





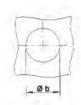
- Metric body styles are designed to be placed into metric drill/punched holes.
- Many of the metric body styles are available with inch/imperial thread.
- Manufactured in our ISO/TS 16949 certified production facility or by our Belgium partner Dejond.
- Special designs are available to meet customer specific requirements. Contact Sherex with your application information.

CATALOG ATTRIBUTES - METRIC BODY STYLE

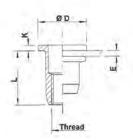
Grip Range(E)	Material Thickness	d	Diameter
L	Length	d(A/F)	Diameter Across Flats
D	Head Diameter	b	Hole Size
K	Head Thickness		



UPO LARGE FLANGE METRIC SERIES







METRIC TH	METRIC THREAD (UNIT - MILLIMETERS)											
Part Number Steel	Thread Size	Grip Ra Min.	mge (E) Max.	L ± 0.35	D ± 0.35	K ± 0.15	d -0.02/-0.15	Hole Size (b ^{+0.1})				
TU-SM3UPO20	M3 X 0.5 ISO	0.5	2.0	9.8	8.0	0.8	5.0	5.1				
TU-SM3UPO30	M3X0.5 ISO	2.0	3.0	10.8	0.0	0.0	3.0	3.1				
TU-SM4UPO30	M4X0.7 ISO	0.5	3.0	10.8	10.0	0.8	6.0	6.0				
TU-SM4UPO45	M4X0.7 ISO	3.0	4.5	12.3	10.0	0.6	6.0	0.0				
TU-SM5UPO30	M5X0.8 ISO	0.5	3.0	12.0	11.0	1.0	7.0	7.0				
TU-SM5UPO55	M5X0.8 ISO	3.0	5.5	15.0	11.0	1.0	7.0	7.0				
TU-SM6UPO30	M6X1.0 ISO	0.5	3.0	14.5								
TU-SM6UPO55	M6X1.0 ISO	3.0	5.5	16.5	13.0	1.5	9.0	9.0				
TU-SM6UPO80	M6X1.0 ISO	5.5	8.0	19.0								
TU-SM8UPO30	M8X1.25 ISO	0.5	3.0	16.0								
TU-SM8UPO55	M8X1.25 ISO	3.0	5.5	18.5	16.0	1.5	11.0	11.0				
TU-SM8UPO80	M8X1.25 ISO	5.5	8.0	21.5								
TU-SM10UPO35	M10X1.5 ISO	0.8	3.5	19.8	18.5	2.3	12.4	12.5				
TU-SM10UP060	M10X1.5 ISO	3.5	6.0	22.8	10.5	2.3	12.4	12.5				
TU-SM10SP035	M10X1.5 ISO	0.8	3.5	21.0	19.0	2.0	13.0	13.0				
TU-SM10SP060	M10X1.5 ISO	3.5	6.0	24.0	19.0	2.0	13.0	13.0				
TU-SM12UPO40	M12X1.75 ISO	1.0	4.0	25.0	23.0	2.0	16.0	16.0				
TU-SM12UP070	M12X1.75 ISO	4.0	7.0	28.0	23.0	2.0	10.0	10.0				

PART NUMBERING SYSTEM

UPO Specifications Material

Part Number

TU

Example: TU-SM5UPO30

Steel QST 34-3 Stainless Steel 304 Cu

Stainless Steel 316 Cu Aluminum ALMG 2.5

Finish:

M5 Product Style Thread Size Material S-Steel

UP Product Type O-Open End Grip Range

Metric

Large Flange, Flat Head X-Closed End

A-Aluminum SS-304 Stainless Steel

Zinc Plated - Yellow Dichromate RoHs Compliant: Zinktop (Clear) 96 w / 480 r

*316-316 Stainless Steel

Special finish or material available upon request

*316 Stainless Steel has extra corrosion resistance and can be used in the medical, chemical and food industries.

Grip Range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. Closed End sizes available: M4, M5, M6, and M8. Also available with imperial threads - minimum order quantity is 25,000 pieces if not in stock. Contact Sherex for test data.

INSTALLATION TOOLING

UPO Series can be installed with our Hand Tools, and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.

All Parts have been manufactured by: 🕦 📭 📆 🔼



TUBTARA®- A DEJOND PRODUCT

Sherex rivet nuts are compatible with the following hardware:

GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8





- The UPO series offers a large flange for increased strength and better containment of round or oversized holes.
- The metric body dimensions allow for use in metric holes.

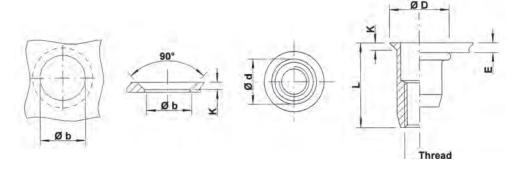


UFO



- The UFO series offers a contersunk head for flush installation into the parent materials.
- The metric body dimensions allow for use in metric holes.

UFO COUNTERSUNK HEAD METRIC SERIES



METRIC TH	METRIC THREAD (UNIT - MILLIMETERS)											
Part Number		Grip Ra	nge (E)	L	D	К	d	Hole Size				
Steel	Thread Size	Min. Max. ± 0.35 +0.00/-0.5		+0.3/-0.05	-0.02/-0.15	(b ^{+0.1})						
TU-SM3UFO35	M3X0.5 ISO	1.7	3.5	11.25	8.0	1.5	5.0	5.1				
TU-SM4UFO35	M4X0.7 ISO	1.7	3.5	11.5	9.0	1.5	6.0	6.0				
TU-SM4UFO50	M4X0.7 ISO	3.5	5.0	13.0	9.0	1.5	0.0	0.0				
TU-SM5UFO40	M5X0.8 ISO	1.7	4.0	13.0	10.0	1.5	7.0	7.0				
TU-SM5UFO65	M5X0.8 ISO	4.0	6.5	16.0	10.0	1.5	7.0	7.0				
TU-SM6UFO45	M6X1.0 ISO	1.7	4.5	17.0	12.0	1.5	9.0	9.0				
TU-SM6UFO65	M6X1.0 ISO	4.5	6.5	19.0	12.0	1.5	9.0	9.0				
TU-SM8UFO45	M8X1.25 ISO	1.7	4.5	19.0	14.0	1.5	11.0	11.0				
TU-SM8UFO65	M8X1.25 ISO	4.5	6.5	21.0	14.0	1.5	11.0	11.0				
TU-SM10UFO45	M10X1.5 ISO	1.7	4.5	21.0	15.4	1.5	12.4	12.5				
TU-SM10UFO65	M10X1.5 ISO	4.5	6.5	23.0	13.4	1.5	12.4	12.5				
TU-SM12UFO45	M12X1.75 ISO	2.0	4.5	26.0	19.0	1.8	16.0	16.0				
TU-SM12UFO75	M12X1.75 ISO	4.5	7.5	29.0	13.0	1.0	10.0	10.0				

PART NUMBERING SYSTEM

UFO Specifications Part Number

Material: Example: TU-SM5UFO35

Steel QST 34-3 Stainless Steel 304 Cu M5 UF Product Style: Material Product Type Aluminum ALMG 2.5 Thread Size O-Open End Grip range X-Closed End

Smooth Shank S-Steel Metric Finish: Countersunk Head A-Aluminum Zinc Plated - Yellow Dichromate

SS-304 Stainless Steel Metric Body RoHs Compliant: Zinktop (Clear)

Special finish or material available upon request 96 w / 480 r

Grip Range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. Closed end sizes available: M4, M5, M6, and M8. Also available with imperial threads - minimum order quantity is 25,000 pieces if not in stock. Contact Sherex for test data.

INSTALLATION TOOLING

UFO Series can be installed with our Hand Tools and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.

All Parts have been manufactured by: 1 DEJOND



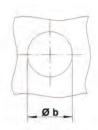
TUBTARA®- A DEJOND PRODUCT

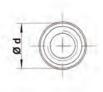
Sherex rivet nuts are compatible with the following hardware:

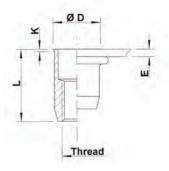
GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8



UKO SMALL FLANGE METRIC SERIES







METRIC THREAD (UNIT - MILLIMETERS) Grip Range (E) D L Κ **Part Number** d **Hole Size Thread Size** +0.3/- 0.15 $(b^{+0.1})$ Steel ± 0.35 +0.3/-0.05 -0.02/-0.15 Min. Max. TU-SM4UKO30 M4X0.7 ISO 0.5 3.0 10.75 6.5 0.5 6.0 6.0 TU-SM5UKO30 M5X0.8 ISO 0.5 3.0 12.0 7.5 0.5 7.0 7.0 TU-SM5UKO55 M5X0.8 ISO 3.0 5.5 15.0 TU-SM6UKO30 M6X1.0 ISO 0.5 3.0 14.5 9.5 0.5 9.0 9.0 TU-SM6UKO55 M6X1.0 ISO 3.0 5.5 16.5 TU-SM8UKO30 M8X1.25 ISO 0.5 3.0 16.0 0.5 11.5 11.0 11.0 TU-SM8UKO55 M8X1.25 ISO 3.0 5.5 18.5

19.5

12.9

0.5

3.5

0.8





- The UKO series offers a small flange head for near flush installation.
- The metric body dimensions allow for use in metric size holes.

PART NUMBERING SYSTEM

M10X1.5 ISO

UKO Specifications Material:

TU-SM10UKO35

Part Number

Example: TU-SM5UKO30

Material

A-Aluminum

S-Steel

Steel QST 34-3 Stainless Steel 304 Cu

Stainless Steel 304 Cu Stainless Steel 316 Cu Aluminum ALMG 2.5

TU Product Style: Metric M5 Thread Size UK Product Type Smooth Shank O 30 O-Open End Grip range X-Closed End

12.4

12.5

Small Flange, Round Body Metric Body

SS-304 Stainless Steel
*316-316 Stainless Steel

Zinc Plated - Yellow Dichromate RoHs Compliant: Zinktop (Clear)

96 w / 480 r

Special finish or material available upon request

*316 Stainless Steel has extra corrosion resistance and can be used in the medical, chemical and food industries.

Grip Range can be affected by parent material and hole size.

Sherex recommends trial installations to determine the proper grip range for the application.

Closed End sizes available: M4, M5, M6, and M8.

Also available with imperial threads - minimum order quantity is 25,000 pieces if not in stock.

Contact Sherex for test data.

INSTALLATION TOOLING

UKO Series can be installed with our Hand Tools and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.

All Parts have been manufactured by: 1



TUBTARA®- A DEJOND PRODUCT
Sherex rivet nuts are compatible with the following hardware:
GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8

HUPO/ **HUKO** series

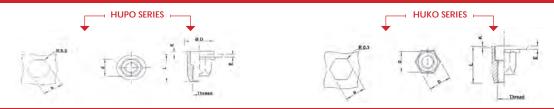


- The HUPO series has a large flange that provides increased strength.
- · Hexagonal shank body for improved spin out.
- The metric body dimensions allow for use in metric holes.



- The HUKO series has a smaller flange head that gives a near flush installation into the parent material.
- Hexagonal shank body for improved spin out.
- The metric body dimensions allow for use in metric holes.

HUPO & HUKO LARGE AND SMALL FLANGE HEXAGONAL METRIC SERIES



HUPO MET	HUPO METRIC THREAD (UNIT - MILLIMETERS)												
Part Number Steel	Thread Size	Grip Ra Min.	nge (E) Max.	L ± 0.35	D ± 0.35	K ± 0.15	d (A/F) -0.02/-0.15	Hole Size (b ^{+0.1}) (A/F)					
TU-SM4HUPO20	M4X0.7 ISO	0.5	2.0	10.0	9.0	1.0	6.0	6.0					
TU-SM5HUPO30	M5X0.8 ISO	0.5	3.0	13.0	10.0	1.0	7.0	7.0					
TU-SM6HUPO30	M6X1.0 ISO	0.5	3.0	14.5	13.0	1.5	9.0	9.0					
TU-SM6HUPO55	M6X1.0 ISO	3.0	5.5	16.5	13.0	1.5	9.0	9.0					
TU-SM8HUPO30	M8X1.25 ISO	0.5	3.0	16.5									
TU-SM8HUPO55	M8X1.25 ISO	3.0	5.5	19.0	16.0	1.5	11.0	11.0					
TU-SM8HUPO80	M8X1.25 ISO	5.5	8.0	22.0									
TU-SM10HSP035	M10X1.5 ISO	0.8	3.5	21.0	19.0	2.0	13.0	13.0					
TU-SM10HSP060	M10X1.5 ISO	3.5	6.0	23.5	15.0	2.0	13.0	15.0					
*TU-SM12HUPO40	M12X1.75 ISO	1.0	4.0	25.0	23.0	2.0	16.0	16.0					

HUKO MET	HUKO METRIC THREAD (UNIT - MILLIMETERS)												
Part Number		Grip Ra	nge (E)	L	D	к	d (A/F)	Hole Size					
Steel	Thread Size	Min.	Max. ± 0.35		+0.3/-0.15	+0.3/-0.05	-0.02/-0.15	(b ^{+0.1})(A/F)					
TU-SM4HUKO20	M4X0.7 ISO	0.5	2.0	11.0	6.6	0.6	6.0	6.0					
TU-SM5HUKO30	M5X0.8 ISO	0.5	3.0	14.0	7.7	0.6	7.0	7.0					
TU-SM5HUKO55	M5X0.8 ISO	3.0	5.5	16.5	7.7	0.6	7.0	7.0					
TU-SM6HUKO30	M6X1.0 ISO	0.5	3.0	16.0	9.8	0.7	9.0	9.0					
TU-SM6HUKO55	M6X1.0 ISO	3.0	5.5	18.5	9.0	0.7	9.0	9.0					
TU-SM8HUKO30	M8X1.25 ISO	0.5	3.0	18.0	11.8	0.7	11.0	11.0					
TU-SM8HUKO55	M8X1.25 ISO	3.0	5.5	20.5	11.0	0.7	11.0	11.0					
TU-SM10HUKO35	M10X1.5 ISO	0.8	3.5	23.0	13.8	0.7	13.0	13.0					

PART NUMBERING SYSTEM

HUPO/HUKO Specifications Part Number Example: TU-SM5HUPO30

Material:

Steel QST 34-3 Stainless Steel 304 Cu Stainless Steel 316 Cu

Zinc Plated - Yellow Dichromate RoHs Compliant: Zinktop (Clear)

96 w / 480 r

M5 TU HUP Product Type Thread Size Product Style Material Metric S-Steel Large Flange

SS-304 Stainless Steel Flat Head *316-316 Stainless Steel Hexagonal Shank Metic Body

*Semi-Hexagonal Shank

Part Number

Example: TU-SM5HUKO30

TU M5 HUK 30 Product Style Material Thread Size Product Type O-Open End Grip Range Small Flange Metric S-Steel X-Closed End

Metric Body

30

O-Open End Grip Range

X-Closed End

SS-304 Stainless Steel Round Body *316-316 Stainless Steel Hexagonal Shank

Special finish or material available upon request All Stainless Steel parts are semi-hexagonal shank.

*316 Stainless Steel has extra corrosion resistance and can be used in the medical, chemical and food industries

Grip Range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. RoHS Compliant Trivalent Plating available upon request.

Closed End sizes available: M4, M5, M6, M8. Also available with imperial threads - minimum order quantity is 25,000 pieces if not in stock. Contact Sherex for test data.

INSTALLATION TOOLING

HUPO/HUKO Series can be installed with our Hand Tools and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.

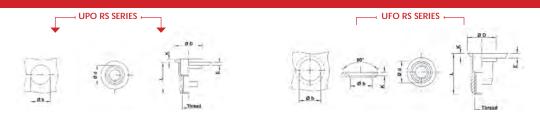
All Parts have been manufactured by: 🍏 DEJOND

TURTARA®- A DEIOND PRODUCT Sherex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8





UPO RS & UFO RS LARGE AND COUNTERSUNK KNURLED METRIC SERIES



UPO RS METRIC THREAD (UNIT - MILLIMETERS)												
Part Number Steel	Thread Size	Thread Size		K ± 0.15	d -0.02/-0.15	Hole Size (b ^{+0.1})						
TU-SM4UPO30R	M4X0.7 ISO	0.5	3.0	10.75	10.0	0.75	6.3	6.4				
TU-SM4UPO45R	M4X0.7 ISO	3.0	4.5	12.25	10.0	0.73	0.5	0.4				
TU-SM5UPO30R	M5 X 0.8 ISO	0.5	3.0	12.0	11.0	1.0	7.3	7.4				
TU-SM5UPO55R	M5 X 0.8 ISO	3.0	5.5	15.0	11.0	1.0	7.3	7.4				
TU-SM6UPO30R	M6X1.0 ISO	0.5	3.0	14.5	13.0	1.5	9.3	9.4				
TU-SM6UPO55R	M6X1.0 ISO	3.0	5.5	16.5	13.0	1.5	9.5	9.4				
TU-SM8UPO30R	M8X1.25 ISO	0.5	3.0	16.0	16.0	1.5	11.4	11.5				
TU-SM8UPO55R	M8X1.25 ISO	3.0	5.5	18.5	16.0	1.5	11.4	11.5				
TU-SM10UPO35R	M10X1.5 ISO	0.8	3.5	19.75	18.5	2,25	12.9	13.0				
TU-SM10UPO60R	M10X1.5 ISO	3.5	6.0	22.75	10.5	2.25	12.9	13.0				

UFO RS ME	UFO RS METRIC THREAD (UNIT - MILLIMETERS)											
Part Number		Grip Ra		L	D	к	d	Hole Size				
Steel	Thread Size	Min.	Max.	± 0.35	+0.00/-0.5	+0.3/- 0.05	-0.02/-0.15	(b ^{+0.1})				
TU-SM4UFO35R	M4X0.7 ISO	1.7	3.5	11.5	9.0	1.5	6.3	6.4				
TU-SM4UFO50R	M4X0.7 ISO	3.5	5.0	13.0	5.0	1.5	0.5	0.1				
TU-SM5UFO40R	M5X0.8 ISO	1.7	4.0	13.0	10.0	1.5	7.3	7.4				
TU-SM5UFO65R	M5X0.8 ISO	4.0	6.5	16.0	10.0	1.5	7.5	7.7				
TU-SM6UFO45R	M6X1.0 ISO	1.7	4.5	17.0	12.0	1.5	9.3	9.4				
TU-SM6UFO65R	M6X1.0 ISO	4.5	6.5	19.0	12.0	1.5	9.5	9.4				
TU-SM8UFO45R	M8X1.25 ISO	1.7	4.5	19.0	14.0	1.5	11.4	11.5				
TU-SM8UFO65R	M8X1.25 ISO	4.5	6.5	21.0	14.0	1.5	11.4	11.5				
TU-SM10UFO45R	M10X1.5 ISO	1.7	4.5	21.0	15.4	1.5	12.9	13.0				
TU-SM10UFO65R	M10X1.5 ISO	4.5	6.5	23.0	13.4	1.5	12.9	13.0				

PART NUMBERING SYSTEM

UPO RS/UFO RS Specifications

Zinc Plated - Yellow Dichromate

Part Number

Example: TU-SM5UPO30R

Material: Steel QST 34-3

Product Style: Material Thread Size Product Type Metric

S-Steel

Large Flange, Flat Head

UF

Metic Body

RoHs Compliant: Zinktop (Clear) Part Number

Metric

96 w / 480 r

Example: SM5UFO40R

Product Style: Material

S-Steel

Thread Size Product Type

M5

Smooth Shank

Countersunk Head

Metric Body

Special finish or material available upon request

30

O-Open End Grip Ribbed

O-Open End Grip Ribbed

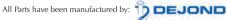
Grip Range can be affected by parent material and hole size.

Sherex recommends trial installations to determine the proper grip range for the application.

RoHS Compliant Trivalent Plating available upon request. Also available with imperial threads - minimum order quantity is 25,000 pieces if not in stock. Contact Sherex for test data

INSTALLATION TOOLING

UPO RS/ UFO RS Series can be installed with our Hand Tools and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.



TUBTARA®- A DEJOND PRODUCT Sherex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8 Please contact Sherex when using other grade fasteners.

UPO RS/ **UFO RS** series



- The UPO RS series has a large flange that provides increased strength and better containment of round or oversized holes.
- Unique knurling increases spin out resistance in soft materials.



- The UFO RS has a countersunk head style for flush installations.
- Unique knurling increases spin out resistance.



UKO/ **HUKO** INCH series



- UKO inch series has a smaller flange head that gives a near flush installation.
- Round shank body.
- · Dimensions in inches.

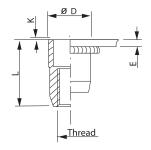


- HUKO inch series has a smaller flange head that gives a near flush installation.
- · Hexagonal shank body.
- · Dimensions in inches.

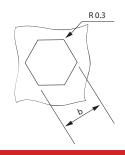
UKO AND HUKO IMPERIAL THREAD SERIES - STAINLESS STEEL

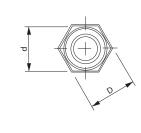


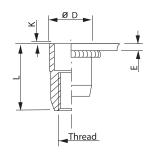




UKO UNIFIED THREAD (UNIT - INCHES)													
		Grip Ra	nge (E)				Diameter-Inch	Diameter-Metric	Hole Size - Inch	Hole Size - Metric			
Part Number (304 Stainless Steel)	Thread Size Min. Max.		Max.	L D K	(d)	(d)	(b ^{+.004})	(b ^{+0.1})					
TU-SS1032UKO30	10-32 UNF	.020	.118	.472	.295	.020	.276	7.0	.276	7.0			
TU-SS2520UKO30	1/4-20 UNC	.020	.118	.571	.374	.020	.354	9.0	.354	9.0			
TU-SS3118UKO30	5/16-18 UNC	.020	.118	.630	.453	.020	.433	11.0	.433	11.0			







1	HUKO UNIFIED THREAD (UNIT - INCHES)												
	Part Number		Grip Ra	nge (E)				Diameter-Inch	Diameter-Metric	Hole Size - Inch	Hole Size - Metric		
	(304 Stainless Steel)	Thread Size	Min.	Max.	L	LDK		(d) (A/F)	(d) (A/F)	(b ^{+.004}) (A/F)	(b ^{+0.1})(A/F)		
	TU-SS1032HUKO30	10-32 UNF	.020	.118	.472	.295	.020	.276	7.0	.276	7.0		
	TU-SS2520HUKO30	1/4-20 UNC	.020	.118	.571	.374	.020	.354	9.0	.354	9.0		
	TU-SS3118HUKO30	5/16-18 UNC	.020	.118	.630	.453	.020	.433	11.0	.433	11.0		

PART NUMBERING SYSTEM

UKO/HUKO Specifications Part Number Material:

Example: SS1032HUKO30 Stainless Steel 304 Cu

Stainless Steel 316 Cu TU 1032 HUK Product Style Material Thread Size Product Type O-Open End Grip Range

Metric SS-304 Stainless Steel Small Flange X-Closed End

*316-316 Stainless Steel Hexagonal Shank Inch Body

Special finish or material available upon request

*316 Stainless Steel has extra corrosion resistance and can be used in the medical, chemical and food industries

Grip Range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. RoHS Compliant Trivalent Plating available upon request. Also available with imperial threads - minimum order quantity is 25,000 pieces if not in stock. Contact Sherex for test data.

INSTALLATION TOOLING

UKO/HUKO Inch Series can be installed with our Hand Tools and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.



TUBTARA®- A DEJOND PRODUCT

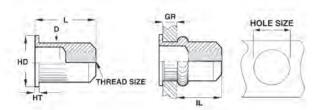
Sherex rivet nuts are compatible with the following hardware:

GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8





CLM & CKM LARGE & SMALL FLANGE KNURLED METRIC BODY SERIES



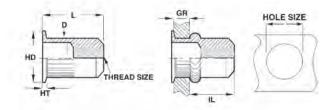
CLM METRIC THREAD (UNIT - MILLIMETERS) Grip Range (GR) L HD ΗТ D ΙL Hole Size Sherex **Part Number Thread Size** Min. ±.013 +0.10/-.000 Min. Nom. Max. Max. Ref. Max. Metric - Steel CLM2-470-3.0 M4X0.7 ISO 0.25 3.00 11.5 8.62 9.38 0.75 5.95 7.10 6.00 CLM2-580-3.0 M5X0.8 ISO 0.25 3.00 13.0 9.62 10.38 1.00 6.95 7.90 7.00 13.38 CLM2-610-3.0 M6X1.0 ISO 0.50 3.00 16.0 12.62 1.50 8.95 9.40 9.00 CLM2-8125-3.0 M8X1.25 ISO 0.50 3.00 17.5 15.62 16.38 1.50 10.95 11.00 11.00

2.25

12.95

14.50

13.00



22.0

18.12 18.88

CKM METR	CKM METRIC THREAD (UNIT - MILLIMETERS)												
Sherex	TI 10:	Grip Range (GR)		L	н	D	нт	D	IL	Hole Size			
Part Number Metric - Steel		Min.	Max.	Nom.	Min.	Max.	±.013	Max.	Ref.	+0.10/000			
CKM2 -470-3.0	M4X0.7 ISO	0.25	3.00	11.3	6.70	7.20	0.46	5.95	7.10	6.00			
CKM2 -580-3.0	M5X0.8 ISO	0.25	3.00	12.7	7.70	8.20	0.46	6.95	7.90	7.00			
CKM2-610-3.0	M6X1.0 ISO	0.50	3.00	15.3	9.70	10.20	0.50	8.95	9.40	9.00			
CKM2 -8125-3.0	M8X1.25 ISO	0.50	3.00	17.3	11.62	12.38	0.63	10.95	11.00	11.00			
CKM2 -1015-3.5	M10X1.5 ISO	0.50	3.50	20.4	13.62	14.38	0.80	12.95	14.50	13.00			

PART NUMBERING SYSTEM

M10X1.5 ISO

0.50

3.50

CLM/CKM Specifications	Part Number
Material: Steel 1008/1010	Evample: CLM2-610-3 (

Aluminum 5056

Finish:

CLM2-1015-3.5

610 Product Style Material Thread Size Grip Range Large Flange

2-Steel 3-Aluminum

Metric Body

per ASTM B633 Fe/Zn 8, Type II Knurled Body

RoHS Compliant: Zinc Plated-Clear Trivalent Chromate per Sherex SFS-01-001

Zinc Plated-Yellow Dichromate

CKM 610 3.0 Product Style

Material Thread Size Grip Range Empty-Open End Small Flange 2-Steel B-Closed End Knurled Body 3-Aluminum T-Trivalent

Metric Body

Special finish or material available upon request

Empty-Open End

B-Closed End

T-Trivalent

Grip range can be affected by parent material and hole size. Sherex recommends trial installations to determine the proper grip range for the application. Contact Sherex for details. CLM & CKM style rivet nut specials available upon request. Contact Sherex for test data.

INSTALLATION TOOLING

CLM/CKM Series can be installed with our Hand Tools, and Hydro-Pneumatic Tools. For additional tooling information see pages 33-38.

Sherex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8 Please contact Sherex when using other grade fasteners.

CLM/ series



• The CLM series is the true metric version of the CAL series.



 The CKM series is the true metric version of the CAK series.



SHEREX CR/CRE SERIES





PLATING: CR AND CRE SERIES

Corrosion Resistant - Long Life Plating Options CR SERIES

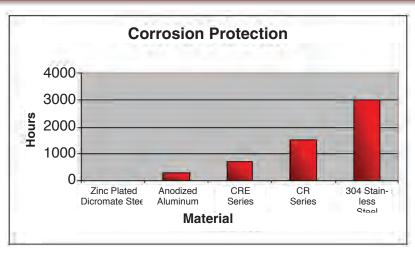
- Proprietary Zinc Nickel Plating
- CR Series is certified to over 1,000 hrs of corrosion protection before red rust
- Available on all rivet nuts in silver (standard), black, or yellow

CRE SERIES

- Proprietary Zinc Plating
- More economical for lower corrosion resistant requirements
- CRE Series is certified to over 500 hrs of corrosion protection before red rust
- Available in silver (standard) or black

ROHS REQUIREMENTS

- The CR & CRE Series are RoHS compliant
- Our plating process contains neither hexavalent nor trivalent chromate
- This saves cost as now there is no need to test for hexavalent presence



Additional information and Sherex white paper available at www.sherex.com

RoHS Requirements

The **CR and CRE Series** are RoHS Compliant. Our plating process contains neither hexavalent nor trivalent chromate. This saves cost as now there is no need to test for hexavalent presence.

Ordering & Inquires

When inquiring about the **CR and CRE Series** finishes, simply replace the first 2 letters of the part number with **CR** or **CRE**.

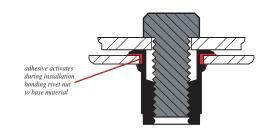
Example: **CAL2-2520-165** becomes **CREL2-2520-165**For non-standard finish, contact Sherex for ordering details.

Sherex CR Black = **CRB**, Sherex CR Yellow = **CRY**, Sherex CRE Black = **CREB**



SHEREX LOCSERT®

Sherex Locsert® is a proprietary adhesive that is pre-applied under the head of the rivet nut. When installed, the adhesive bonds the rivet nut to the base material which greatly increases the force required to spin the rivet nut. This is commonly referred to as, "spin out."



PRODUCT FEATURES AND BENEFITS

- Base material must be a ferrous or non-ferrous metal.
- Base material should not be painted or powder coated (finish will reduce performance).
- Base material should be as clean as possible prior to rivet nut installation.
- Hole should be relatively free of burrs.
- Bonding begins immediately, but allow 2-3 hours for approximately 75% curing. Locsert® will be fully cured within 24 hours.
- Locsert® performance will improve 20-30% when post bake associated with e-coat, powdercoat or paint finish is performed AFTER Locsert® installation.

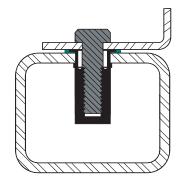
Base Material: 1018 steel, 70HRB, .063 thickness

Part Number	Spin Out (in - lb)	As Locsert®	Set Time
CAL 2-252 0-165	42.90	90.08	3 hours

For additional testing data, please contact Sherex

SHEREX SEAL 2 SEALING SYSTEM

Sherex Seal 2 has been designed for use in applications where it is necessary to seal fluid or air leakage from under the head. Seal 2 provides greater performance over conventional sealing materials such as PVC foam.



BENEFITS

- Resistant to automotive fluids.
- Can withstand temperatures up to 150° C.
- Has been pressure tested to 160 psi of backside pressure with no leakage.
- Seal 2 processed rivet nuts can be installed into any finished materials.
- Seal 2 can pass through a paint bake or other baking process for up to 30 minutes with no reduction in sealing capabilities.
- Can be applied to a standard rivet nut.











RIV-FLOAT®



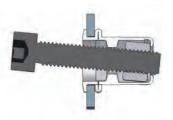
 Ensure easy, accurate, and fast attachment of components in off-center applications.

CENTERING NOSEPIECE



 RIV-FLOAT® is installed with FLEX-5 Hydro-Pneumatic Tool with RIV-FLOAT®Anvil.





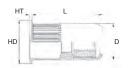
CROSS SECTION OF RIV-FLOAT® INSTALLED



STANDARD RIVET NUT INSTALLED

FEATURES AND BENEFITS

- Accounts for tolerance stack up in joint design and misalignment during service of the joint.
- · Floating nut aligns to drive angle of screw virtually eliminating cross threading and spin out.
- Allows for installation in post painted or powder coat applications where weld nuts 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 to IFI spec 100/107





UNINSTALLED

INSTALLED

RFK INCH/METRIC SMALL FLANGE THREAD SERIES **Grip Range** L HD нт D IL **Hole Size** Part Number Radial **Thread Size** Inch (Steel) Deflection ± .0215 ± .010 ± .002 Ref. +.006/-.000 0.027 RFK2-0832-130 8-32 UNC 0.020 .130 .7195 .455 .022 390 .522 .391 0.027 RFK2-1032-150 10-32 UNF 0.015 150 7195 455 390 522 391 RFK2-2520-150 1/4-20 UNC 0.030 .8190 0.027 .530 .630

5 . 1 N 1		n. P. I	Grip R	ange	L	HD	нт	D	IL	Hole Size
Part Number Metric (Steel)	Thread Size	Radial Deflection	Min.	Max.	± .55	± .25	± .05	Max.	Ref.	+.15/000
RFK2-470-3.3	M4x0.7 ISO	0.51	0.7	3.3	18.28	11.56	0.55	9.91	13.25	10.00
RFK2-580-3.8	M5X0.8 ISO	0.38	0.7	3.8	18.28	11.56	0.55	9.91	13.25	10.00
RFK2-610-3.8	M6x1.0 ISO	0.76	0.7	3.8	20.80	15.11	0.55	13.46	16.00	13.50

RFL INCH/METRIC LARGE FLANGE THREAD SERIES **Grip Range** L HD HT D ΙL **Hole Size Part Number** Radial **Thread Size** Inch (Steel) Deflection ± .0215 ± .010 ± .003 Ref. +.006/-.000 Min. Max. Max. RFL2-0832-130 8-32 UNC 0.020 .027 .130 .7195 .500 .030 .390 .522 .391 RFL2-1032-150 10-32 UNF 0.015 027 150 7195 522 500 030 390 391 RFL2-2520-150 1/4-20 UNC 0.030 .027 .8190 .531

Part Number	Dort Number		Grip F	Grip Range		HD	нт	D	IL	Hole Size
Metric (Steel)	Thread Size	Radial Deflection	Min.	Max.	± .55	± .25	± .08	Max.	Ref.	+.15/000
RFL2-470-3.3	M4x0.7 ISO	0.51	0.7	3.3	18.28	12.70	0.76	9.91	13.25	10.00
RFL2-580-3.8	M5x0.8 ISO	0.38	0.7	3.8	18.28	12.70	0.76	9.91	13.25	10.00
RFL2-610-3.8	M6x1.0 ISO	0.76	0.7	3.8	20.80	17.40	0.89	13.46	16.00	13.50





TEST DATA

Thread Size	Material Thickness (Steel)	Pull Out	Failure Mode (Pull Out)	Torque Out	Failure Mode (Torque Out)	Suggested Assembly Torque Grade 5 Class 8.8
# 8-32 UNC	.130"	2205 lbf	Bolt Breaks	71 in-lb	Bolt Breaks	22.0 in-lb
# 10-32 UNF	.150"	3530 lbf	Bolt Breaks	128 in-lb	Bolt Breaks	36.0 in-lb
1/4-20 UNC	.150"	5510 lbf	Bolt Breaks	265 in-lb	Bolt Breaks	75.0 in-lb
M4x0.7 ISO	3.3 mm	1000 kgf	Bolt Breaks	9 N•m	Bolt Breaks	2.5 N•m
M5x0.8 ISO	3.8 mm	1900 kgf	Bolt Breaks	21 N•m	Bolt Breaks	5.0 N•m
M6x1.0 ISO	3.8 mm	2500 kgf	Bolt Breaks	30 N•m	Bolt Breaks	8.6 N•m



RIV-FLOAT® Rivet Nut Hand Tool Kits

	Inch Kit Metric Kit Mini Inch		6-32 / 8-32 Mini Inch Kit	10-32 / ¼-20 Mini Inch Kit
Part Number: RNHT RF INCH KIT RNHT RF METRIC KIT		RNHT RF METRIC KIT	RNHT 6-32/8-32 RF MINI KIT	RNHT 10-32/2520 RF MINI KIT
Tools Sizes:	6-32 to 1/4-20	M4 to M6	1/4-28	10-32 and ¼-20
	30 pieces of RFL2-0632-130	30 pieces of RFL2-470-3.3	20 pieces of RFL2-0632-130	20 pieces of RFL2-1032-150
Rivet Nuts:	30 pieces of RFL2-0832-130	30 pieces of RFL2-580-3.8	20 pieces of RFL2-0832-130	10 pieces of RFL2-2520-150
Rivet Nuts:	30 pieces of RFL2-1032-150	20 pieces of RFL2-610-3.8		
	20 pieces of RFL2-2520-150			

Each tool comes with an extra mandrel

MECHANICALLY LOCKED PARTS

	Mechanically Locked Inch Kit	Mechanically Locked Metric Kit
Part Number:	RNHT RF ML INCH KIT	RNHT RF ML METRIC KIT
Tools Sizes:	1/4-28	1/4-28
	20 pieces of SH-22-0632	20 pieces of SH-22-470
Rivet Nuts:	20 pieces of SH-22-0832	20 pieces of SH-22-580
	20 pieces of SH-22-1032	

Each tool comes with an extra mandrel



RIV-FLOAT® Rivet Nut Hand Tool Bag

	6-32 BAG	8-32 BAG	10-32 BAG	1/4-20 BAG		
Part Number:	RNHT-0632RF BAG	RNHT-0832RF BAG	RNHT-1032RF BAG	RNHT-2520RF BAG		
Tools Sizes:	1/4-28	1/4-28	10-32	1/4-20		
Rivet Nuts:	15 pieces of RFL2-0632-130	15 pieces of RFL2-0832-130	15 pieces of RFL2-1032-150	10 pieces of RFL2-2520-150		

Each tool comes with an extra mandrel

	M4 BAG	M5 BAG	M6 BAG		
Part Number:	RNHT-M4RF BAG	RNHT-M5RF BAG	RNHT-M6RF BAG		
Tools Sizes:	1/4-28	M5	M6		
Rivet Nuts:	15 pieces of RFL2-470-3.3	15 pieces of RFL2-580-3.8	10 pieces of RFL2-610-3.8		

Each tool comes with an extra mandrel

MECHANICALLY LOCKED PARTS

	Mechanically Locked 6-32 BAG	Mechanically Locked 8-32 BAG	Mechanically Locked 10-32 BAG		
Part Number:	RNHT-0632RF ML BAG	RNHT-0832RF ML BAG	RNHT-1032RF ML BAG		
Tools Sizes:	1/4-28	1/4-28	1/4-28		
Rivet Nuts:	15 pieces of SH-22-0632	15 pieces of SH-22-0832	15 pieces of SH-22-1032		

Each tool comes with an extra mandrel

MECHANICALLY LOCKED PARTS

	Mechanically Locked M4 BAG	Mechanically Locked M5 BAG			
Part Number:	RNHT-M4RF ML BAG	RNHT-M5RF ML BAG			
Tools Sizes:	1/4-28	1/4-28			
Rivet Nuts:	15 pieces of SH-22-470	15 pieces of SH-22-580			

Each tool comes with an extra mandrel

Contact Sherex for Riv-Float® Short kits and bags

Contact Sherex for availability and lead times
Private label available upon request
RIV-FLOAT® is covered under US Patent No. "7,713,011"





RIV-FLOAT® SHORT



 Ensure easy, accurate, and fast attachment of components in off-center applications.

RIV-FLOAT® SHORT



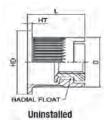
CROSS SECTION OF RIV-FLOAT® - SHORT Installed



Standard Rivet Nut Installed

FEATURES AND BENEFITS

- Accounts for tolerance stack up in joint design and misalignment during service of the joint.
- New Low-Profile design provides greater backside clearance.
- · Allows for installation post finish in applications where weld nuts or cage nuts are typically used.
- Mechanically locked RIV-FLOAT®- Short available with prevailing torque feature to IFI SPEC 100/107
- 0.020" Radial Float
- RoHS Compliant







Installed

RFK INCH/METRIC SMALL FLANGE THREAD SERIES SHEREX **Grip Range** HD нт D ΙL **Hole Size** Radial Thread Size Part Number Float Inch - Steel ± .01 +.006/-.000 Min. Max. ± .012 ± .003 Max. Ref. RFSK2-0832-100 8-32 UNC 0.020 .020 .100 .433 394 .480 .025 .431 .246 RFSK2-1024-100 10-24 UNC 0.020 .020 100 394 .480 .025 .431 246 433 RFSK2-1032-100 10-32 UNF 0.020 .020 .100 .431 .433 SHEREX **Grip Range** HD нт D ΙL **Hole Size** L Radial **Part Number Thread Size** Float Metric - Steel Min. Max. ± .25 ± .30 ± .07 Max. Ref. +.15/-.00 2.50 10.00 11.00 RFSK2-470-2.5 M4x0.7 ISO 0.50 0.50 12.20 .63 10.95 6.25 RFSK2-580-2.5 M5X0.8 ISO 0.50 0.50 2.50 10.00 12.20 .63 10.95 6.25 11.00

RFL INCH/METRIC LARGE FLANGE THREAD SERIES											
SHEREX Part Number		Radial	Grip Range		L	HD	нт	D	IL	Hole Size	
Inch - Steel		Float	Min.	Max.	± .01	± .015	± .003	Max.	Ref.	+.006/000	
RFSL2-0832-100	8-32 UNC	0.020	.020	.100	.406	.555	.033	.431	.246	.433	
RFSL2-1024-100	10-24 UNC	0.020	.020	.100	.406	.555	.033	.431	.246	.433	
RFSL2-1032-100	10-32 UNF	0.020	.020	.100	.406	.555	.033	.431	.246	.433	
SHEREX Part Number	Thread Size	Radial	Grip R	ange	L	HD	нт	D	IL	Hole Size	
Metric - Steel		Float	Min.	Max.	± .30	± .38	± .08	Max.	Ref.	+.15/00	
RFSL2-470-2.5	M4x0.7 ISO	0.50	0.50	2.50	10.30	14.10	.85	10.95	6.25	11.00	
RFSL2-580-2.5	M5x0.8 ISO	0.50	0.50	2.50	10.30	14.10	.85	10.95	6.25	11.00	





RIV-FLOAT® SHORT

FLOATING TECHNOLOGIES

RIV-FLOAT® -SHORT vs. Riveted Nut Plates vs. Cage Nuts

RIVETED NUT PLATE

- Requires three holes to be drilled (1 for the plate & 2 for the rivets)
- Requires access to both sides of the work piece
- 15-20 second installation time

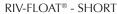
CAGE NUT

- Requires a Square Hole to be punched
- Requires access to both sides of the work piece
- 15-20 second installation time

RIV-FLOAT® -SHORT

- Only 1 round hole needs to be drilled
- Access from only one side of the work is necessary for installation
- 2-3 second installation time







RIV-FLOAT®-SHORT is installed with **FLEX-5**Hydro-Pneumatic Tool with RIV-FLOAT®-SHORT Anvil







LARGE THREAD RIVET NUT FAMILY

LARGE **THREAD RIVET NUT FAMILY**

LARGE & IN CHARGE

The first product line of its kind offering Rivet Nuts up to 34-10 (M20)



FEATURES AND BENEFITS

- Provide a Strong Thread in Thin Sheet Materials
- Can be Installed from One Side of the Work Piece
- Do Not Need to be Welded to the Base Material
- Available in a Round Body or a Full Hex Body for Increased Spin Out Resistance
- Plated with a ROHS Complaint Zinc Trivalent Clear Plating

SIZES AND STYLES

- Unified Sizes Available:
- 1/2" Round Body & Hex Body
- 5/8" Round Body & Hex Body
- 3/4" Round Body

- Metric Sizes Available:
 - M12 Round Body & Hex Body
 - M16 Round Body & Hex Body



All LARGE thread Rivet Nuts are installed with the Sherex Flex 18

See Page 38 for details



LARGE THREAD RIVET NUT APPLICATIONS

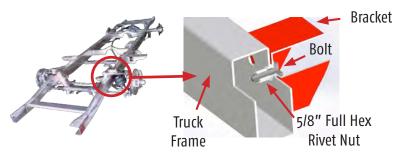
Utility Poles Attachments

Utility Pole Hex Nut

3/4" Round
STEP-NUT™

3/4" Step Bolt

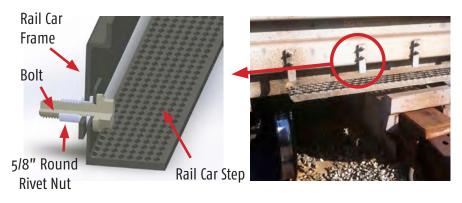
Truck Frame Attachments



Vending Machine Leg Leveler



Attach Components on Railcars

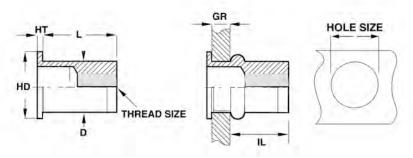


LARGE THREAD RIVET NUT FAMILY

LARGE THREAD RIVET NUT FAMILY

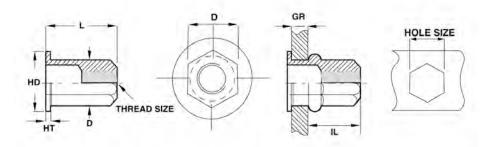
LARGE THREAD RIVET NUT SPECIFICATIONS

Round Body



I	LRGR SERIES - ROUND BODY										
	SHEREX		Grip R	ange	L	HD	HT	D	IL	Hole Size	
	Part Number Inch - Steel	Thread Size	Min.	Max.	± .015	± .025	± .004	Max.	Ref.	+.010/000	
	LRGR2-5013-150	1/2-13 UNC	.050	.150	1.260	.945	.085	.656	.984	.656	
	LRGR2-6211-200	5/8-11 UNC	.080	.200	1.428	1.181	.098	.826	1.142	.827	
	LRGR2-7510-250	3/4-10 UNC	.010	.250	1.210	1.235	.118	.906	.878	.907	
					-						
	SHEREX		Grip R	ange	L	HD	HT	D	IL	Hole Size	
	Part Number Metric - Steel	Thread Size	Min.	Max.	± .38	± .64	± .10	Max.	Ref.	+.25/000	
	LRGR2-12175-3.8	M12x1.75 ISO	1.27	3.80	32.00	24.00	2.16	16.65	25.00	16.66	
	LRGR2-1620-5.0	M16x2.0 ISO	2.00	5.00	36.27	30.00	2.50	20.98	29.00	21.00	

Full Hex Body



LRGH SERIES - FULL HEX BODY										
SHEREX		Grip R	lange	L	HD	HT	D (A/F)	IL	Hole Size (A/F)	
Part Number Inch - Steel	Thread Size	Min.	Max.	± .015	± .025	± .004	Max.	Ref.	+.010/000	
LRGH2-5013-150	1/2-13 UNC	.050	.150	1.181	1.024	.085	.656	.866	.656	
LRGH2-6211-200	5/8-11 UNC	.080	.200	1.260	1.260	.118	.826	.965	.827	
			-							
SHEREX		Grip R	lange	L	HD	HT	D (A/F)	IL	Hole Size (A/F)	
Part Number Metric - Steel	Thread Size	Min.	Max.	± .38	± .64	± .10	Max.	Ref.	+.25/000	
LRGH2-12175-3.8	M12x1.75 ISO	1.27	3.80	30.00	26.00	2.16	16.65	22.00	16.66	
LRGH2-1620-5.0	M16x2.0 ISO	2.00	5.00	32.00	32.00	3.00	20.98	24.50	21.00	

Contact Sherex for test data.
Sherex rivet nuts are compatible with the following hardware: GRADE 2, GRADE 5, CLASS 8.8 and CLASS 9.8 Please contact Sherex when using other grade fasteners.



RIVET NUT HAND TOOLS

LHF 202 (Imperial Tool) Includes: 8-32, 10-24, 1/4-20 head sets LHF 202M (Metric Tool) Includes: M4, M5, M6 head sets

This hand tool was designed to install any rivet nut ranging in size from 6-32 to 1/4-28 (M4-M6). This tool is ideal for small production work and prototyping. It replaces previously offered hand tools (MS510, MS511, and MS480).

RIV-FLOAT®	RIV-FLOAT®	RIV-FLOAT®
Thread Size	Mandrel	Anvil
6-32	LHFM 2528	LHFA 25
8-32	LHFM 2528	LHFA 25
10-32	LHFM 1032	LHFA 10RF
1/4-20	LHFM 2520	LHFA 25RF
M4	LHFM 2528	LHFA 25
M5	LHFM M5	LHFA M5RF
M6	LHFM M6	LHFA M6RF

Thread Size	Mandrel	Anvil			
6-32	LHFM 0632	LHFA 0632			
8-32	LHFM 0832	LHFA 0832			
10-24	LHFM 1024	LHFA 10			
10-32	LHFM 1032	LHFA 10			
1/4-20	LHFM 2520	LHFA 25			
1/4-28	LHFM 2528	LHFA 25			
5/16-18	LHFM 3118	LHFA 31			
5/16-24	LHFM 3124	LHFA 31			
3/8-16	LHFM 3716	LHFA 37			

M4 (Imperial Tool) Includes: 1/4-20, 5/16-18, 3/8-16, and 1/2-13 head sets

M4 (Metric Tool) Includes: M6, M8, M10, and M12 head sets

M5 (Imperial Tool) Includes: 10-32, 1/4-20, 5/16-18, and 3/8-16 head sets

M5 (Metric Tool) Includes: M5, M6, M8, and M10 head sets

HEAVY DUTY









M5 HAND TOOL

Thread Size	Head Sets (Includes Anvil & Mandrel)	Anvil	Mandrel
6-32	MHS-0632	MA-0632	M-0632
8-32	MHS-0832	MA-0832	M-0832
10-24	MHS-1024	MA-1024	M-1024
10-32	MHS-1032	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
5/16-24	MHS-3124	MA-3124	M-3124
3/8-16	MHS-3716	MA-3716	M-3716
3/8-24	MHS-3724	MA-3724	M-3724
1/2-13	MHS-5013	MA-5013	M-5013
1/2-20	MHS-5020	MA-5020	M-5020
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



Part Number	Thread			
RNHT-0632	6-32			
RNHT-0832	8-32			
RNHT-1024	10-24			
RNHT-1032	10-32			
RNHT-2520	1/4-20			
RNHT-2528	1/4-28			
RNHT-3118	5/16-18			
RNHT-3124	5/16-24			
RNHT-3716	3/8-16			
RNHT-3724	3/8-24			
RNHT-4320	7/16-20			
RNHT-M3	M3			
RNHT-M4	M4			
RNHT-M5	M5			
RNHT-M6	M6			
RNHT-M8	M8			

RIV-FLOAT®	RIV-FLOAT®
Thread Size	Part Number
6-32	RNHT-2528RF
8-32	RNHT-2528RF
10-32	RNHT-1032RF
1/4-20	RNHT-2520RF
M4	RNHT-2528RF
M5	RNHT-M5RF
M6	RNHT-M6RF

Rivet Nut Hand Tool - The Only Hand Tool You Will Ever Need!

Tired of buying multiple tools to install the different styles of rivet nuts? Presenting the Sherex design hand installation tool, which is capable of handling all styles of rivet nuts from 6-32 to 3/8 and M3 to M10. Tools may be purchased individually by size or in a wide variety of convenient kits. Each tool has the same body size, thereby requiring only 11/16" ratchet and one 7/8" wrench to install all sizes and styles of rivet nuts. In addition, this line of hand installation tool uses a standard socket head cap screw as a mandrel, making replacement convenient and economical.

TOOLS

RIVET NUT PNEUMATIC SPIN -SPIN TOOLS

RIVET NUT PNEUMATIC SPIN - SPIN 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 in these series







Part Number	Thread Size	Tool RPM	Air Pressure (Dynamic)	Weight	Air Inlet	Air Use	Minimum Hose Size	Complete Head Assembly	Hex Driver	Mandrel	Bearing Set	Complete Head Assembly Rivet Nut Stud
			PSI	LBS	NPT	CFM	IN		Make Up	Complete Head As	sembly	
	4-40	3000	35-45	3.0	1/4"	5	3/8	HS-0440	HD-4	M-0440-150	BS-4	
SSG - 801, 901 & 911	6-32	3000	70-80	3.0	1/4"	5	3/8	HS-0632	HD-6	M-0632-150	BS-6	HSS-0632
	8-32	3000	70-90	3.0	1/4"	5	3/8	HS-0832	HD-8	M-0832-150	BS-8	
	М3	3000	35-45	3.0	1/4"	5	3/8	HS-M3	HD-M3	M-M3-30	BS-M3	
	M4	3000	35-45	3.0	1/4"	5	3/8	HS-M4	HD-M4	M-M4-35	BS-M4	
	10-24	1500	60-80	3.0	1/4"	5	3/8	HS-1024	HD-10	M-1024-175	BS-10	
	10-32	1500	60-80	3.0	1/4"	5	3/8	HS-1032	HD-10	M-1032-175	BS-10	HSS-1032
SSG - 802,	1/4-20	1500	70-90	3.0	1/4"	5	3/8	HS-2520	HD-25	M-2520-175	BS-25	HSS-2520
902 & 912	1/4-28	1500	70-90	3.0	1/4"	5	3/8	HS-2528	HD-25	M-2528-200	BS-25	
	M5	1500	70-80	3.0	1/4"	5	3/8	HS-M5	HD-M5	M-M5-40	BS-M5	HSS-M5
	M6	1500	70-80	3.0	1/4"	5	3/8	HS-M6	HD-M6	M-M6-40	BS-M6	HSS-M6
	5/16-18	600	90-110	3.0	1/4"	5	3/8	HS-3118	HD-31	M-3118-175	BS-31	
	5/16-24	600	90-110	3.0	1/4"	5	3/8	HS-3124	HD-31	M-3124-175	BS-31	
SSG - 803,	3/8-16	600	90-110	3.0	1/4"	5	3/8	HS-3716	HD-37	M-3716-200	BS-37	HSS-3716
903 & 913	3/8-24	600	90-110	3.0	1/4"	5	3/8	HS-3724	HD-37	M-3724-200	BS-37	
	M8	600	90-110	3.0	1/4"	5	3/8	HS-M8	HD-M8	M-M8-40	BS-M8	HSS-M8
	M10	600	90-110	3.0	1/4"	5	3/8	HS-M10	HD-M10	M-M10-45	BS-M10	
	5/16-18	400	90-110	3.0	1/4"	5	3/8	HS-3118	HD-31	M-3118-175	BS-31	
	5/16-24	400	90-110	3.0	1/4"	5	3/8	HS-3124	HD-31	M-3124-175	BS-31	
	3/8-16	400	90-110	3.0	1/4"	5	3/8	HS-3716	HD-37	M-3716-200	BS-37	
SSG - 804	3/8-24	400	90-110	3.0	1/4"	5	3/8	HS-3724	HD-37	M-3724-200	BS-37	
	M8	400	90-110	3.0	1/4"	5	3/8	HS-M8	HD-M8	M-M8-40	BS-M8	HSS-M8
	M10	400	90-110	3.0	1/4"	5	3/8	HS-M10	HD-M10	M-M10-45	BS-M10	
	1/2-13	275	75-120	4.0	1/4"	5	3/8	HS-5013	HD-50	M-5013-250	BS-50	*Contact Sherex for
SSG-808	1/2-20	275	75-120	4.0	1/4"	5	3/8	HS-5020	HD-50	M-5020-225	BS-50	additional thread sizes
	M12	275	75-120	4.0	1/4"	5	3/8	HS-M12	HD-M12	M-M12-60	BS-M12	

^{*}Contact Sherex for Prebulbed (CPB) Mandrel part numbers

Contact SHEREX for SSG Replacement part numbers.

*Weight for 800 series only.

High temperature grease should be used to lubricate the bearing set. Contact Sherex for availability.

Sherex recommends the use of an air regulator, air filter, and lubrication system to reduce the wear of internal components. It is also recommended to lubricate the mandrel to increase performance. Mandrels should be replaced when excessive thread wear occurs with a high quality socket head cap screw.



HYDRO-PNEUMATIC FLEX-5 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.

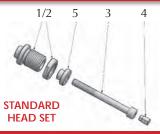
*Check out our FLEX-5 videos at www.sherex.com

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
 Installs Rivet Nut Studs from:
- Push to start nose piece to spin on fastener
- Single stage trigger
- Automatic reverse with manual reverse bypass
- Quick change mandrel design
- Light weight tool (4.2 lbs)
- Can be suspended from a balancer
- Socket head cap screw mandrel

- M5-M8 and #10-24-5/16-24
- · Available in an in-line version
- 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
- · All aluminum design for improved durability



HEAD SETS FOR STANDARD RIVET NUTS

Thread Size	Complete Headset	Anvil Mandrel (1 + 2) (3)		Hex Driver (4)	Reducing sleeve (5)
М3	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
M 5	FL5 - HS - M5	FL5 -HS -00905	M-M5-65	FL5 -HS -01005	FL5 - HS - 09105
M 6	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
M 10	FL5 - HS - M10	FL5 - HS- 00910	M-M10-65	FL5 - HS - 01010	XXXX
# 4-40 UNC	FL5 - HS - 0440	FL5 - HS- 00854	M -0440 - 175	FL5 - HS - 00754	FL5 - HS - 09154
# 6-32 UNC	FL5 - HS - 0632	FL5 -HS -00856	M -0632 - 175	FL5 - HS - 00756	FL5 - HS - 09156
# 8-32 UNC	FL5 - HS - 0832	FL5 -HS -00858	M -0832 - 175	FL5 -HS -00758	FL5 - HS - 09158
# 10-24 UNC	FL5 - HS - 1024	FL5 -HS -00850	M-1024-250	FL5 -HS -00750	FL5 - HS - 09150
# 10-32 UNF	FL5 - HS - 1032	FL5 - HS - 00850	M-1032-250	FL5 - HS - 00750	FL5 - HS - 09150
1/4-20 UNC	FL5 - HS - 2520	FL5 -HS -00848	M -2520 - 250	FL5 - HS - 00748	FL5 - HS - 09148
1/4-28 UNF	FL5 - HS -2528	FL5 -HS -00848	M -2528 - 250	FL5 - HS - 00748	FL5 - HS - 09148
5/16-18 UNC	FL5 -HS -3118	FL5 - HS - 00840	M -3118 - 250	FL5 - HS - 00740	FL5 - HS - 09140
5/16-24 UNF	FL5 -HS -3124	FL5 - HS - 00840	M -3124 - 250	FL5 - HS - 00740	FL5 - HS -09140
3/8-16 UNC	FL5 - HS - 3716	FL5 - HS - 00842	M -3716 - 250	FL5 - HS - 00742	XXXX
3/8-24 UNF	FL5 - HS - 3724	FL5 - HS - 00842	M -3724 - 250	FL5 - HS - 00742	XXXX



HYDRO-**PNEUMATIC** FLEX-5

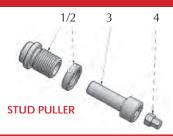
TOOL





HYDRO-PNEUMATIC FLEX-5 TOOL

HYDRO-PNEUMATIC FLEX-5 TOOL



HEAD SETS	HEAD SETS FOR RIVET NUT STUDS							
Thread Size	Thread Size Complete Headset		Mandrel (3)	Hex Driver (4)	Reducing sleeve (5)			
M 5	FL5 - HS - M5S	FL5 - HS - S0905	FL5 - HS - 0S005	FL5 - HS - 01010	XXXX			
M6	FL5 - HS - M6S	FL5 - HS - S0906	FL5 - HS - 0S006	FL5 - HS - 01010	XXXX			
M8*	FL5 - HS - M8S	FL5 - HS - S0908	FL5 - HS - 0S008	FL5 - HS - 01010	XXXX			
# 10-24 UNC	FL5 - HS - 1024S	FL5 - HS - S0850	FL5 - HS - S1024	FL5 - HS -01010	XXXX			
# 10-32 UNF	FL5 - HS - 1032S	FL5 - HS - S0850	FL5 - HS - S1032	FL5 - HS -01010	XXXX			
1/4-20 UNC	FL5 - HS - 2520S	FL5 - HS - S0848	FL5 - HS - S2520	FL5 - HS -01010	XXXX			
1/4-28 UNF	FL5 - HS - 2528S	FL5 - HS - S0848	FL5 - HS - S2528	FL5 - HS -01010	XXXX			
5/16-18 UNC*	FL5- HS - 3118S	FL5 - HS - S0840	FL5 - HS - S3118	FL5 - HS - 01010	XXXX			
5/16-24 UNF*	FL5 - HS - 3124S	FL5 - HS - S0840	FL5 - HS - S3124	FL5 - HS - 01010	XXXX			

^{*}Head sets include p/n FL5-HS-12S92 adaptor nut



HEAD SETS F	HEAD SETS FOR RIV-FLOAT [®]							
Thread Size	Complete Headset	Anvil (1 + 2)	Mandrel (3)	Hex Driver (4)	Reducing sleeve (5)			
M4	FL5-HS-2528R	FL5-HS-00848	M-2528-225	FL5-HS-00748	FL5-HS-09148			
M5	FL5-HS-M5R	FL5-HS-R0995	M-M5-65	FL5-HS-01005	FL5-HS-09105			
M6	FL5-HS-M6R	FL5-HS-R0996	M-M6-65	FL5-HS-01006	FL5-HS-09106			
#4-40 UNC	FL5-HS-2528R	FL5-HS-00848	M-2528-225	FL5-HS-00748	FL5-HS-09148			
#6-32 UNC	FL5-HS-2528R	FL5-HS-00848	M-2528-225	FL5-HS-00748	FL5-HS-09148			
#8-32 UNC	FL5-HS-2528R	FL5-HS-00848	M-2528-225	FL5-HS-00748	FL5-HS-09148			
# 10-24 UNC	FL5-HS-1024R	FL5-HS-R0950	M-1024-250	FL5-HS-00750	FL5-HS-09150			
#10-32 UNF	FL5-HS-1032R	FL5-HS-R0950	M-1032-250	FL5-HS-00750	FL5-HS-09150			
1/4-20 UNC	FL5-HS-2520R	FL5-HS-R0948	M-2520-250	FL5-HS-00748	FL5-HS-09148			
1/4-28 UNF	FL5-HS-2528R1	FL5-HS-R0948	M-2528-250	FL5-HS-00748	FL5-HS-09148			

HEAD SETS I	HEAD SETS FOR RIV-FLOAT [®] SHORT							
Thread Size	Complete Headset	Anvil (1 + 2)	Mandrel (3)	Hex Driver (4)	Reducing sleeve (5)			
M4	FL5-HS-M4SR	FL5-HS-SR0994	M-M4-55	FL5-HS-01004	FL5-HS-09104			
M5	FL5-HS-M5SR	FL5-HS-SR0995	M-M5-65	FL5-HS-01005	FL5-HS-09105			
#8-32 UNC	FL5-HS-0832SR	FL5-HS-SR0858	M-0832-150	FL5-HS-00758	FL5-HS-09158			
#10-24 UNC	FL5-HS-1024SR	FL5-HS-SR0950	M-1024-225	FL5-HS-00750	FL5-HS-09150			
# 10-32 UNF	FL5-HS-1032SR	FL5-HS-SR0950	M-1032-225	FL5-HS-00750	FL5-HS-09150			





MS 100 RIVET NUT TOOL



MS 100 RIVET NUT TOOL



	MS100						
Thread Size	Mandrel	Anvil					
5/16-18	MA-373-3118	MA-369-3118					
5/16-24	MA-377-3124	MA-369-3118					
3/8-16	MA-374-3716	MA-370-3716					
3/8-24	MA-378-3724	MA-370-3716					
7/16-14	MA-375-4314	MA-371-4314					
7/16-20	MA-301-4320	MA-371-4314					
1/2-13	MA-376-5013	MA-372-5013					
1/2-20	MA-379-5020	MA-372-5013					
M8	MA-308-08MM	MA-318-08MM					
M10	MA-310-10MM	MA-320-10MM					
M12	MA-312-12MM	MA-322-12MM					
M14	MA-314-14MM	MA-324-14MM					

The MS 100 Rivet Nut installation tool installs rivet nuts from 5/16-18 to 1/2-20 and M8 and M14. It also installs 5/16 -18 and M8 Riv-Float[®]. The MS 100 tool comes with one mandrel and one anvil.

The MS 100 Rivet Nut Installation tools should be operated at 80-100 psi. Sherex recommends the use of an air regulator, air filter and lubrication system to reduce the wear of internal components. It is also recommended to lubricate the mandrel to increase performance. Mandrels should be replaced when excessive thread wear occurs.



HYDRO-PNEUMATIC FLEX - 18 TOOL

HYDRO
PNEUMATIC
FLEX18
TOOL



FEATURES AND BENEFITS

The most powerful tool on the market able to utilize Pull to Pressure and Pull to Stroke installation methods.

- 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

HEAD SE	HEAD SETS FOR STANDARD NOSE CASE								
Thread Size	Complete Headset	Anvil	Mandrel	Hex Driver	Adaptor Nut				
M8	FL18 - H S - M8	FL18 - HS-00908	M-M8-65	FL5 - HS - 010 08	FL18 - HS -09108				
M10	FL18 - HS -M10	FL18 - HS-00910	M-M10-65	FL5 -HS-01010	FL18 - HS -09110				
M12	FL18 - HS -M12	FL18 - HS -00912	M-M12-65	FL18 -HS-01012	FL18 - HS-09112				
5/16-18 UNC	FL18 - HS -3118	FL18 - HS-00908	M-3118 -250	FL5 - HS - 00740	FL18 - HS-09108				
5/16-24 UNF	FL18 - HS -3124	FL18 - HS-00908	M-3124 -250	FL5 - HS - 00740	FL18 - HS-09108				
3/8-16 UNC	FL18 - HS-3716	FL18 - HS-00910	M-3716 -300	FL5 - HS - 00742	FL18 - HS-09110				
3/8-24 UNF	FL18 - HS -3724	FL18 - HS-00910	M-3724-300	FL5 - HS - 00742	FL18 - HS-09110				
1/2-13 UNC	FL18 - HS -5013	FL18 - HS-00950	M-5013 -300	FL18 -HS-00750	FL18 - HS -09150				
1/2-20 UNF	FL18-HS-5020	FL18 - HS-00950	M-5020 -300	FL18 - HS -00750	FL18 - HS -09150				

HEAD SETS FOR LARGE THREAD NOSE CASE							
Thread Size	Complete Headset	Anvil	Mandrel				
M16	FL18 - 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				

CHECK OUT OUR FULL FLEX-18 TOOL DEMO AT WWW.SHEREX.COM



VALIDATION CAPABILITY

VALIDATION CAPABILITY

This case study is provided to highlight Sherex design support capabilities. Contact Sherex to review your application.

CASE STUDY

A Tier One automotive manufacturer needed to attach a composite (SMC) covered magnesium roof panel reinforced with aluminum roof bows to an aluminum bracket necessary to attach the roof assembly to the vehicle. The roof assembly weighed approximately 35 kg and the material was 4mm thick at its fastening point.

The manufacturer conducted FEA simulations on the joint, and concluded the fastening points would be subjected to approximately 260 kgF of dynamic loading in service. Based on this, the OEM determined they would use a P.C. 8.8 hex washer head bolt with a dog point to mate with the Sherex recommended CAL2-610-6.6W rivet nuts.

A validation testing program incorporating the principles of Six Sigma (DFSS) was conducted on the actual assembly to assure the hardware selected would meet the necessary performance requirements with appropriate safety factors.

Pull Out - Pull Out testing of the M6 rivet nut installed in the application yielded an average 1563 kgF with an upper specification limit (+3 Sigma) of 1603 kgF and a lower specification limit (-3 Sigma) equal to 1501 kgF. This provides a comfortable safety factor for any in-service dynamic loading the fastening points may see not detected during the FEA simulation.

Torque Out – The rivet nut was required to meet Class 8 performance characteristics after installation. All Sherex rivet nuts are manufactured to meet a minimum of Class 8 thread strength requirements.

Spin Out – The bolts were to be assembled to 8.0 Nm of torque using a DC driver and a "Torque" drive strategy (as opposed to Torque – Angle or Torque – Yield). This drive strategy generally has a torque delivery accuracy of +/- 10%. To account for this variation as well as additional variables introduced in a production environment, a 10.0 Nm minimum performance requirement was established.

Sherex developed a testing program to analyze how different upset forces and distances would affect spin out. Testing concluded that the optimal upset force was 7.5 kN, as it produced the highest average spin-out of 11.6 Nm with minimal performance variation.

Corrosion Resistance – The application would be assembled and disassembled regularly and would be exposed to moisture along with cleaning chemicals quite frequently. Corrosion of the nut could cause binding of the bolt during service which could result in damage to the rivet nut upon bolt removal. If this occurred, the repair procedure would be time consuming and costly.

Additionally, corrosion from the joint could cause staining on the Class A roof surface which would require an expensive service procedure. Stainless Steel was cost prohibitive for the application.

Sherex introduced its CR Series Zinc-Nickel finish as an alternative to stainless steel rivet nuts. CR Series plated rivet nuts were installed in the application and the entire assembly was subjected to salt spray testing to ensure no galvanic corrosion would occur. The application surpassed 1400 hours with no red rust when tested per ASTM B-117 neutral salt spray test procedure. Given it's impressive performance, the CR Series plating is currently the only approved plating for application.

Tooling – Given the critical nature of the application, Sherex recommended and the customer implemented the Sherex process monitoring installation tooling which measures the installation force and upset distance of the rivet nut installation. The system generates an installation curve graphically representing the installation process. A tolerance window is established based on the validation testing performed and if the installation curve falls outside of the tolerance window the system notifies the operator and shuts down the cell to ensure a zero defect production environment.

*Test Data can vary greatly due to application.

Sherex recommends you contact us to get testing data for your specific application.



TESTING METHODS

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 it was installed in.

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 Sherex should you require Grade 8, Class 10 or higher joint strength.

	SUGGESTED ASSEMBLY TORQUE			
THREAD SIZE	INCH LBSNm			
	PLATED SCREW			
	GRADE 5 CLASS 8.8			
# 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 UNC	156			
3/18-16 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			

TEST DATA IS FOR REFERENCE ONLY.

SHEREX PRODUCT SHOWCASE

PRODUCT SHOWCASE



M6 stud was developed for an attachment point to a truck frame. Design incorporated wedgehead feature for increased spin out resistance and the MAThread® screw design for reduced cross thread risk during assembly. Application incorporated Sherex Process Monitoring Tooling to ensure each part was properly installed.





Was developed to attach a molded plastic cover to a base unit. If the rivet nut has an outside thread to accept a nut, the plastic cover could be altered and the external thread of the rivet nut could be used for the attachment point.





Designed with an extra large head to act like a spacer.





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.





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.



^{*} MAThread® is a registered trademark of MAThread Inc.

SHEREX PRODUCT SHOWCASE



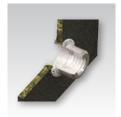


Sherex developed a high strength rivet nut that is compatible with class 10.9 bolts. This design incorporates a full hex body for increased spin out resistance. It also ensures the bolt is the failure mode, which is a best practice when working with structural applications.





Special head and wedge design to meet spin-out requirements in an application.





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.



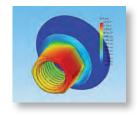


ENGINEERING GUIDE

ENGINEERING GUIDE

DESIGN SUPPORT CAPABILITIES

- Sherex USA combines design & engineering support
 - Ensures the end user is using the correct fastener for the application
- Sherex USA utilizes Solidworks 3D modeling
 - Simulates specialty rivet nut designs
 - The Finite Element Analysis portion of the software allows us to create simulations of the application to ensure it will meet the load requirements of the application.



SHEREX PRODUCTION

- Sherex Production Capabilities
 - Multi-station progressive forming machines for deep extrusions
- Production methods used:
 - Machining
 - Tapping
 - Drilling
 - Additional supporting equipment





SHEREX QUALITY

- Statistical Process Control (SPC)
 - Used in the manufacturing process
 - Critical for use in Level 3, Rev 4 PPAP
- Sherex quality labs
 - Use the latest in testing equipment to ensure our products meet stringent quality requirements.
 - Computerized tensile machine

 - Salt spray booth • Torque machine

- Standard measuring equipment
- Gauging equipment
- · Advanced optical sorting equipment is available for automotive and critical parts











SHEREX DECIMAL EQUIVALENTS & DRILL SIZE CHART

Size	Inch (Dec.)	Metric (mm)	Drill Size	Inch (Dec.)	Metric (mm)	Drill Size	Inch (Dec.)	Metric (mm)	Drill Size	Inch (Dec.)	Metric (mm)	Drill Size	Inch (Dec.)	Metric (mm)
80	.0135	,343	50	.0700	1,778	22	,	3,988	G G	.2610	6,630	31/64	,	12,304
79	.0135	,343	49	.0730	1,776	21	.1570 .1590	4,039	17/64	.2656	6,746	•	.4844	12,304
1/64	.0145	,306	48	.0760	1,930	20	.1610	4,039	17/04 H	.2660	6,756	1/2 33/64	.5156	13,096
78	.0160	.406	5/64	.0781	1,930	20 19	.1660	4,089	I	.2720	6,909	17/32	.5312	13,492
76 77	.0180	.457	5/0 4 47	.0785	1,964	19	.1695	4,305	J	.2720	7,036	35/64	.5312	13,492
76	.0200	,508	46	.0810	2,057	11/64	.1719	4,366	K	.2810	7,030	9/16	.5625	14,288
75 75	.0200	,533	45	.0820	2,037	17/04	.1719	4,394	9/32	.2812	7,137	37/64	.5025	14,684
75 74	.0210	,533 ,572	45 44	.0860	2,083	16	.1730	4,496	9/32 L	.2900	7,142	19/32	.5938	15,083
73	.0225	,609	43	.0890	2,164	15	.1800	4,496	M	.2900	7,366	19/32 39/64	.6094	15,063
73 72	.0250	,635	42	.0690	2,375	14	.1820	4,623	19/64	.2969	7,493	5/8	.6250	15,479
71	.0250	,660	3/32	.0938	2,383	13	.1850	4,700	19/04 N	.3020	7,541	41/64	.6406	16,271
70	.0280	,711	3/32 41	.0956	2,438	3/16	.1875	4,763	5/16	.3125	7,071	21/32	.6562	16,667
69	.0292	,711 ,742	40	.0980	2,436	12	.1890	4,801	5/10 O	.3160	8,026	43/64	.6719	17,066
68	.0292	,742	39	.0980	2,409	11	.1910	4,851	P	.3230	8,204	11/16	.6875	17,463
1/32	.0310	,767	38	.1015	2,578	10	.1935	4,915	21/64	.3281	8,334	45/64	.7031	17,403
67	.0320	,813	37	.1013	2,642	9	.1960	4,978	Q	.3320	8,433	23/32	.7188	18,258
66	.330	,838	36	.1065	2,705	8	.1990	5,055	Q R	.3390	8,611	47/64	.7344	18,654
65	.0350	,889	7/64	.1003	2,779	7	.2010	5,105	11/32	.3438	8,733	3/4	.7500	19,050
64	.0360	,914	35	.1100	2,794	13/64	.2010	5,159	11/32 S	.3480	8.839	49/64	.7656	19,446
63	.0370	,940	34	.1110	2,819	6	.2040	5,182	T	.3580	9,093	25/32	.7812	19,842
62	.0380	,965	33	.1130	2,870	5	.2055	5,220	23/64	.3594	9,129	51/64	.7969	20,241
61	.0390	,991	32	.1160	2,946	4	.2090	5,309	25/01 U	.3680	9,347	13/16	.8125	20,638
60	.0400	1,016	31	.1200	3,048	3	.2130	5,410	3/8	.3750	9,525	53/64	.8281	21,034
59	.0410	1,041	1/8	.1250	3,175	7/32	.2188	5,558	V	.3770	9,576	27/32	.8438	21,433
58	.0420	1,067	30	.1285	3,264	2	.2210	5,613	W	.3860	9,804	55/64	.8594	23,829
57	.0430	1,092	29	.1360	3,454	1	.2280	5,791	25/64	.3906	9,921	7/8	.8750	22,225
56	.0465	1,181	28	.1405	3,569	A	.2340	5,944	X	.3970	10,084	57/64	.8906	22,621
3/64	.0469	1,191	9/63	.1406	3,571	15/64	.2344	5,954	Υ	.4040	10,262	29/32	.9062	23,017
55	.0520	1,321	27	.1440	3,658	В	.2380	6,045	13/32	.4062	10,317	59/64	.9219	23,416
54	.0550	1,397	26	.1470	3,734	C	.2420	6,147	Z	.4130	10,490	15/16	.9375	23,813
53	.0595	1,511	25	.1495	3,797	D	.2460	6,248	27/64	.4219	10,716	61/64	.9531	24,209
1/16	.0625	1,588	24	.1520	3,861	1/4	.2500	6,350	7/16	.4375	11,113	31/32	.9688	24,608
52	.0635	1,613	23	.1540	3,912	Ε	.2500	6,350	29/64	.4531	11,509	63/64	.9844	25,004
51	.0670	1,702	5/32	.1562	3,967	F	.2570	6,528	15/32	.4688	11,908	1	1.000	25,400

No. of Gauge	Aluminum (B & S)	Steel (U.S. Std.)
10	0.101	0.1345
11	0.0907	0.1196
12	0.0808	0.1046
13	0.072	0.0897
14	0.0641	0.0747
15	0.0571	0.0673
16	0.0508	0.0598
17	0.0453	0.0538
18	0.0403	0.0478
19	0.0359	0.0418
20	0.0320	0.0359

No. of Gauge	Aluminum (B & S)	Steel (U.S. Std.)
21	0.0285	0.0329
22	0.0253	0.0299
23	0.0226	0.0269
24	0.0201	0.0239
25	0.0179	0.0209
26	0.0159	0.0179
27	0.0142	0.0164
28	0.0126	0.0149
29	0.0113	0.0135
30	0.0100	0.0120

ADDITIONAL SHEREX SERVICES

ADDITIONAL SHEREX SERVICES

SHEREX WEBSITE



- Complete product catalog.
- Download the catalog, drawings, installation methods and installation videos.
- Links to the 3D models.

INSTALLED 3D MODEL DOWNLOAD



- Choose your: style of interest, type of material, material thickness, open or closed end, and thread size.
- Creates an installed 3D model of the fastener for placement into your modeling system.
- The model is available in 21 different file formats.
- Models are available for the Imperial/Inch body style rivet nuts, RIV-FLOAT® and Brass Inserts.

MARKETING TOOLS



Rivet Nut Plate

 Features installed samples of: CAL, CAK, CAH, CA, CAS, CFT, Seal 2, Dejond Tubtara®, RIV-FLOAT® and RIV-FLOAT®-SHORT Rivet Nuts. ACN and ASN Clinch Nuts



Sherex Sample Cases

• Contains various samples of rivet nuts and brass inserts. Ideal for countertop displays.



Sherex Binder

 Filled with useful information, such as: training presentation, specialty rivet nut sell sheets, competitive cross reference guide, and much more.



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