

HANSON RIVET & SUPPLY CO.

13241 Weidner Street
Pacoima, CA 91331



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FAX: 818-485-0540

Outside CA: 1-800-RRRIVET
www.hansonrivet.com



SERVICE SINCE 1929

HANSON - A Better Service to Rivet Users

HANSON RIVET has been serving rivet users since it was established in 1929. During this time, Hanson has grown to become a major supplier of aerospace and commercial rivets and riveting equipment to all types of manufacturers, large and small. A major factor in this growth has been the expert advice and "old fashioned" service given to our customers. Be it an emergency supply of rivets or a repair part for a rivet machine needed right away, Hanson's experienced service personnel are there to help.

Our customers rely on us to assist with their fastening needs from the original design and prototype samples to rivet installation tools, machines and complete automated assembly equipment. We can also reduce your inventory and delivery issues by keeping parts in stock at all times and making shipments to meet your production requirements.

Hanson's inventory consists of millions of rivets and threaded inserts in different types, sizes, materials and finishes. The many rows of inventory are continually being replenished systematically based on our customers' needs. Most orders are pulled, counted, inspected and shipped the same day they are received. Our quality system is based on MIL-I-45208A.

The many years of experience of the Hanson team can help you with your toughest fastening requirements. You can count on fast dependable service! Let us show you how rivets can be the most economical solution to almost any fastening application.

This fact-filled catalog is just an example of the complete line of products and services we provide.

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All standards, specifications, and technical data included in this catalog are advisory only and their use by anyone is entirely voluntary. Reliance on their contents for any purpose by anyone is at the sole risk of that person and Hanson Rivet is not responsible for any loss, claim or damage arising therefrom. In compiling this catalog, Hanson Rivet has made a determined effort to present its contents accurately. Hanson Rivet is not responsible, however, for any claim traceable to any errors (typographical or otherwise) as contained herein.

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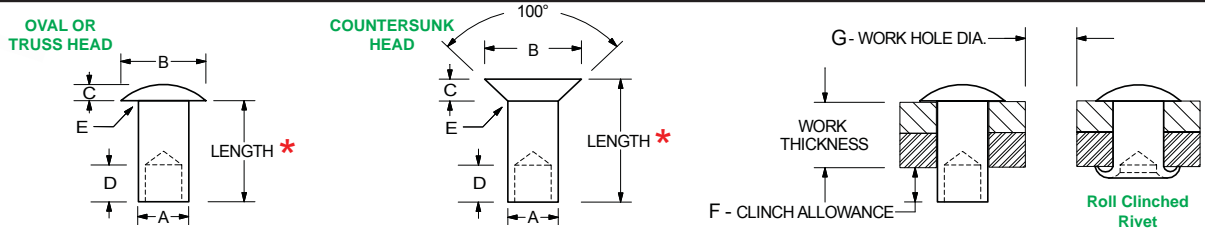
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TUBULAR RIVETS



* LENGTH (in 32nds) = WORK THICKNESS + CLINCH ALLOWANCE "F" (Example Part #: C1-9-ST for 1/8 x 9/32 - specify material and finish)

NOMINAL BODY DIAMETER	PART NUMBER PREFIX	HEAD STYLE	BODY DIAMETER "A" MIN / MAX	HEAD DIAMETER "B" MIN / MAX	HEAD HEIGHT "C" MIN / MAX	HOLE DEPTH "D" CAN VARY	FILLET RADIUS "E"	CLINCH ALLOWANCE "F"	WORK HOLE "G"	
3/64	AAA1- *-ST	OVAL	.046/.049	.078/.083	.011/.014	.035	.003	.027	.052	
	AAA2- *-ST	TRUSS	.046/.049	.090/.094	.018/.022	.035	.003	.027	.052	
1/16	AA1- *-ST	OVAL	.058/.061	.104/.114	.015/.019	.044	.005	.037	.064	
	AA2- *-ST	TRUSS	.058/.061	.120/.130	.015/.019	.044	.005	.037	.064	
	AAX2- *-ST	TRUSS	.062/.065	.123/.128	.023/.027	.047	.005	.039	.070	
	AA100- *-ST	100° COUNTERSUNK	.058/.061	.106/.112	.020/.024	.043	.005	.037	.064	
3/32	AB1- *-ST	OVAL	.085/.089	.142/.152	.020/.026	.064	.010	.054	.096	
	AB8- *-ST	TRUSS	.085/.089	.182/.192	.020/.026	.064	.010	.054	.096	
	BC1- *-ST	TRUSS	.095/.099	.182/.192	.026/.032	.071	.012	.060	.107	
	AB100- *-ST	100° COUNTERSUNK	.085/.089	.164/.172	.037/.043	.064	.010	.054	.096	
	AB101- *-ST	100° COUNTERSUNK	.085/.089	.142/.152	.028/.033	.064	.010	.054	.096	
1/8	C1- *-ST	OVAL	.118/.123	.213/.223	.030/.038	.089	.016	.074	.129	
	C4- *-ST	TRUSS	.118/.123	.276/.286	.030/.038	.089	.016	.074	.129	
	CD1- *-ST	OVAL	.120/.125	.214/.222	.030/.035	.089	.016	.075	.136	
	C100- *-ST	100° COUNTERSUNK	.118/.123	.245/.255	.059/.065	.089	.016	.074	.129	
	C101- *-ST	100° COUNTERSUNK	.118/.123	.213/.223	.044/.050	.089	.016	.074	.129	
	C120- *-ST	120° COUNTERSUNK	.118/.123	.214/.222	.030/.035	.089	.016	.074	.129	
9/64	D1- *-ST	OVAL	.141/.146	.229/.239	.035/.045	.106	.020	.088	.156	
	D3- *-ST	TRUSS	.141/.146	.306/.318	.035/.045	.106	.020	.088	.156	
	D5- *-ST	TRUSS	.141/.146	.370/.380	.059/.065	.106	.020	.088	.156	
	D100- *-ST	100° COUNTERSUNK	.141/.146	.307/.317	.075/.081	.106	.020	.088	.156	
	D101- *-ST	100° COUNTERSUNK	.141/.146	.229/.239	.041/.046	.106	.020	.088	.156	
5/32	DF4- *-ST	OVAL	.150/.156	.245/.255	.043/.049	.113	.020	.094	.166	
	DF11- *-ST	TRUSS	.150/.156	.307/.317	.043/.049	.113	.020	.094	.166	
	DF100- *-ST	100° COUNTERSUNK	.150/.156	.273/.283	.050/.060	.113	.020	.094	.166	
3/16	E1- *-ST	OVAL	.182/.188	.306/.318	.055/.065	.137	.020	.122	.201	
	E3- *-ST	TRUSS	.182/.188	.369/.381	.055/.065	.137	.025	.122	.201	
	E100- *-ST	100° COUNTERSUNK	.182/.188	.354/.364	.078/.084	.137	.020	.122	.201	
	E101- *-ST	100° COUNTERSUNK	.182/.188	.306/.318	.057/.067	.137	.020	.122	.201	
7/32	FE1- *-ST	TRUSS	.210/.217	.430/.444	.061/.075	.159	.025	.140	.234	
1/4	G4- *-ST	OVAL	.244/.252	.430/.444	.073/.083	.182	.030	.164	.266	
	G11- *-ST	TRUSS	.244/.252	.490/.510	.071/.085	.182	.030	.164	.266	
	G100- *-ST	100° COUNTERSUNK	.244/.252	.455/.475	.093/.103	.182	.030	.164	.266	
5/16	T1- *-ST	OVAL	.302/.310	.490/.510	.071/.085	.227	.030	.203	.332	
	T2- *-ST	OVAL	.302/.310	.550/.570	.086/.100	.227	.030	.203	.332	
	T5- *-ST	TRUSS	.302/.310	.745/.755	.150/.160	.227	.030	.203	.332	
3/8	U2- *-ST	OVAL	.370/.380	.615/.635	.095/.105	.281	.032	.225	.390	
	U3- *-ST	TRUSS	.370/.380	.680/.700	.120/.130	.281	.040	.225	.390	
7/16		We carry limited sizes of 7/16" and 1/2" diameter tubular rivets in stock.								
1/2		Please call us with your requirements.								

Standard materials: **STEEL • ALUMINUM • BRASS • COPPER • STAINLESS STEEL • MONEL**

Many finishes and colors available. We also stock many non-standard sizes.

NOTE: Countersunk head dimensions may be theoretical to sharp edge of head. For other Head Styles please call our sales department.



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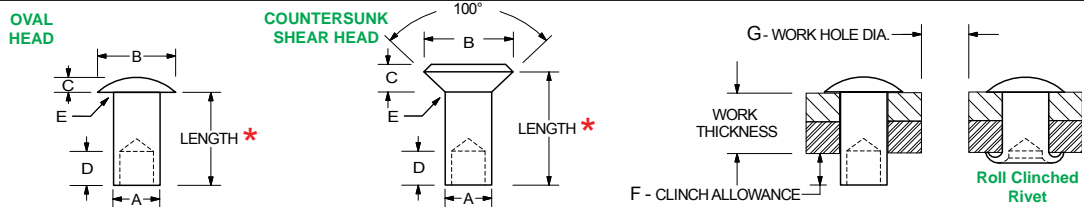
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MIL-SPEC TUBULAR RIVETS



* LENGTH (in 32nds) = WORK THICKNESS + CLINCH ALLOWANCE "F" (Example Part #: MS20450-C8-9 for 1/8 x 9/32 specify material and finish)

BASIC MIL-SPEC PART NUMBER	HEAD STYLE	BODY DIAMETER "A" MIN / MAX	HEAD DIAMETER "B" MIN / MAX	HEAD HEIGHT "C" MIN / MAX	HOLE DEPTH "D"	FILLET RADIUS "E"	CLINCH ALLOWANCE "F"	WORK HOLE "G"
MS20450-C4-*	OVAL	.058/.061	.104/.114	.015/.019	.044	.005	.037	.064
MS20450-C6-*	OVAL	.085/.089	.142/.152	.020/.026	.064	.010	.054	.096
MS20450-D6-*	100° SHEAR	.085/.089	.164/.172	.065 REF.	.062	.010	.054	.096
MS20450-C8-*	OVAL	.118/.123	.213/.223	.030/.038	.089	.016	.074	.129
MS20450-D8-*	100° SHEAR	.118/.123	.245/.255	.075/.085	.062	.010	.074	.129
MS20450-C9-*	OVAL	.141/.146	.229/.239	.035/.045	.106	.020	.088	.156
MS20450-D9-*	100° SHEAR	.141/.146	.307/.317	.086/.096	.125	.010	.088	.156
MS20450-C12-*	OVAL	.182/.188	.306/.318	.055/.065	.137	.020	.122	.201

Standard materials: **STEEL • ALUMINUM • BRASS • COPPER • STAINLESS STEEL • MONEL**

Many finishes and colors available. We also stock many non-standard sizes.

NOTE: Countersunk head dimensions may be theoretical to sharp edge of head. For other Head Styles please call our sales department.

BINDER RIVETS

PART NUMBER	LENGTH	CARTON QUANTITY	CARTON WEIGHT	DESCRIPTION
D3-6-DT	3/16	30,000	33 Lbs.	BINDER RIVET STEEL, DEEP TUBULAR
D3-8-DT	4/16	27,000	37 Lbs.	
D3-10-DT	5/16	22,000	37 Lbs.	
D3-12-DT	6/16	19,000	36 Lbs.	
D3-14-DT	7/16	17,000	38 Lbs.	
D3-16-DT	8/16	16,000	40 Lbs.	
D3-18-DT	9/16	14,000	39 Lbs.	
D3-20-DT	10/16	13,000	40 Lbs.	
D3-24-DT	12/16	12,000	40 Lbs.	
4-3S	3/16	30,000	33 Lbs.	FLAT / 150° COUNTERSUNK BINDER RIVET STEEL, DEEP TUBULAR
4-4S	4/16	27,000	37 Lbs.	
4-5S	5/16	22,000	37 Lbs.	
4-6S	6/16	19,000	36 Lbs.	
4-7S	7/16	17,000	38 Lbs.	
4-8S	8/16	16,000	40 Lbs.	
4-9S	9/16	14,000	39 Lbs.	
4-10S	10/16	12,000	38 Lbs.	
4-12S	12/16	10,000	35 Lbs.	
4-3A	3/16	30,000	14 Lbs.	"CONCEALED" BINDER RIVET FLAT / 150° COUNTERSUNK ALUMINUM SEMI-TUBULAR
4-4A	4/16	27,000	14 Lbs.	
4-5A	5/16	22,000	13 Lbs.	
4-6A	6/16	19,000	14 Lbs.	
4-7A	7/16	17,000	14 Lbs.	
4-8A	8/16	16,000	15 Lbs.	
4-9A	9/16	14,000	15 Lbs.	
4-10A	10/16	13,000	15 Lbs.	
BAF-4	4/16	26,000	13 Lbs.	"CONCEALED" BINDER RIVET FLAT NAIL HEAD ALUMINUM SEMI-TUBULAR
BAF-5	5/16	24,000	13 Lbs.	
BAF-6	6/16	20,000	13 Lbs.	
BAF-7	7/16	18,000	13 Lbs.	
BAF-8	8/16	16,000	13 Lbs.	
BAF-9	9/16	14,000	13 Lbs.	
BAF-10	10/16	13,000	13 Lbs.	
RA-40721	5/16	QUANTITY PRICE BREAKS (BULK PACKAGED) 5,000 • 10,000 • 25,000 • 50,000 100,000 • 250,000 • 500,000	13 Lbs.	"STAKING" BINDER RIVET ALUMINUM SEMI-TUBULAR
RA-41474	6/16		13 Lbs.	
RA-40723	7/16		13 Lbs.	
RA-40720	8/16		13 Lbs.	
RA-40722	9/16		13 Lbs.	

LOOSE LEAF BINDER ASSEMBLY MACHINE
The machine pictured below combines the rugged dependability of two automatic feed National Model 500B Riveters with a fully adjustable base to provide the most efficient way to rivet loose leaf binders. A hand crank allows the two riveting heads to be quickly and easily moved to any center distance between 2-1/2" and 18". The locating fixture is designed to optimize both the production rate and accuracy of part location, and is easily adjustable for various binder sizes.



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BRAKE & CLUTCH LINING RIVETS

BRAKE LINING RIVETS	PART NUMBER	LENGTH UNDER HEAD
<p>Body Dia. 9/64 Head Dia. .296 Hole Depth .125</p>	4-3	3/16
	4-3.5	7/32
	4-4	1/4
	4-5	5/16
	4-6	3/8
	4-8	1/2
	4-12	3/4
<p>Body Dia. 9/64 Head Dia. .359 Hole Depth .125</p>	5-2.5	5/32
	5-3.5	7/32
	5-4	1/4
	5-4.5	9/32
	5-5	5/16
	5-6	3/8
	5-8	1/2
	5-9	9/16
	5-10	5/8
	5-12	3/4
<p>Body Dia. 3/16 Head Dia. .359 Hole Depth .187</p>	7-3	3/16
	7-4	1/4
	7-5	5/16
	7-6	3/8
	7-7	7/16
	7-8	1/2
	7-8.5	17/32
	7-10	5/8
	7-11	11/16
	7-12	3/4
	7-16	1
	7-22	1-3/8
	7-23	1-7/16
	7-24	1-1/2

BRAKE LINING RIVETS	PART NUMBER	LENGTH UNDER HEAD	
<p>Body Dia. 3/16 Head Dia. .468 Hole Depth .187</p>	8-9	9/16	
	8-10	5/8	
	8-11	11/16	
	8-12	3/4	
	8-13	13/16	
	8-14	7/8	
	8-16	1	
	8-18	1-1/8	
<p>Body Dia. .197 Head Dia. .468 Hole Depth .218</p>	20-6	3/8	
	20-7	7/16	
	20-8	1/2	
	20-9	9/16	
	20-10	5/8	
	20-11	11/16	
	<p>Body Dia. 1/4 Head Dia. .468 Hole Depth .250</p>	10-6	3/8
10-7		7/16	
10-8		1/2	
10-9		9/16	
10-10		5/8	
10-20		1-1/4	
<p>Body Dia. 9/64 Head Dia. .296 Hole Depth .187</p>	22-4	1/4	
	22-6	3/8	
	<p>Body Dia. .210 Head Dia. .360 Hole Depth .157</p>	23-4	1/4
		23-5	5/16
		23-6	3/8
<p>Body Dia. 3/16 Head Dia. .360 Hole Depth .141</p>	24-4	1/4	
	24-4.5	9/32	
	24-5	5/16	
	24-5.5	11/32	
	24-6	3/8	

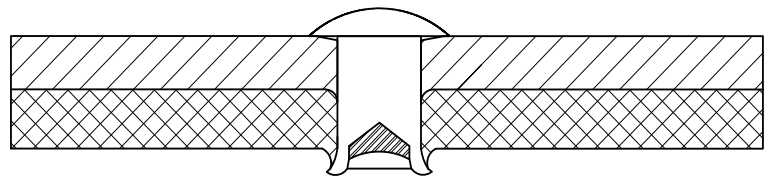
CLUTCH RIVETS	PART NUMBER	LENGTH UNDER HEAD
<p>Body Dia. 9/64 Head Dia. .296 Hole Depth .218</p>	3-3	3/16
	3-4	1/4
	3-12	3/4
<p>Body Dia. 5/32 Head Dia. .359 Hole Depth .188</p>	11-3	3/16
	11-4	1/4
	11-5	5/16
<p>Body Dia. 9/64 Head Dia. .359 Hole Depth .218</p>	16-3	3/16
	16-4	1/4
	16-6	3/8
	<p>Body Dia. 3/16 Head Dia. .359 Hole Depth .218</p>	17-3
17-4		1/4
<p>SOLID RIVET</p> <p>Body Dia. 5/32 Head Dia. .285</p>	156-3	3/16
	156-3.5	7/32
	156-4	1/4
	<p>Body Dia. 3/16 Head Dia. .359</p>	256-3
256-4		1/4

Standard Materials for
Brake and Clutch Rivets are:
STEEL PLATED & PURE BRASS

METAL-PIERCING RIVETS

PIERCING POSSIBILITIES

RIVET DIAMETER	WORK THICKNESS THAT CAN BE PIERCED (SEE BELOW)
1/8"	.015" to .060"
9/64"	.060" to .100"
5/32"	.060" to .100"
3/16"	.100" to .200"
- SPECIAL QUOTE -	.200" to PLUS



FASTENING by means of Metal-Piercing rivets is a method that holds tremendous advantages. The main advantage is that pre-punched holes in your work are not necessary. This type of riveting is done with an automatic feed rivet machine as seen on page C88. Considering the speed, low cost, and reliability of the joint, Metal-Piercing rivets often replace spot welding.

FAST - Rivets can be installed as fast as 90 per minute.

STRONG - Metal-Piercing rivets are exceptionally strong. Under extreme tension, the material will usually distort before the rivet is dislodged.

RELIABLE - Better than spot welding because this is a mechanical joint. Visual inspection is possible, no guess work, no tips to clean, and low electric consumption.

COMBINATIONS of steel, aluminum, stainless, and other metals, along with many other materials, including plastics and fibers, can be joined successfully. The ability of Metal-Piercing rivets to penetrate any material depends upon the material hardness, thickness, and the number of pieces to be joined.

APPLICATIONS ARE ENDLESS, some of which include: sheet metal work, HVAC, pail handles, gas cans, component chassis, hardware, panels, guards, athletic gear, and awnings.

SIZES AND MATERIALS of Metal-Piercing rivets are dependent on the application. We will test your material for piercing feasibility.



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Phone: 818-485-0500

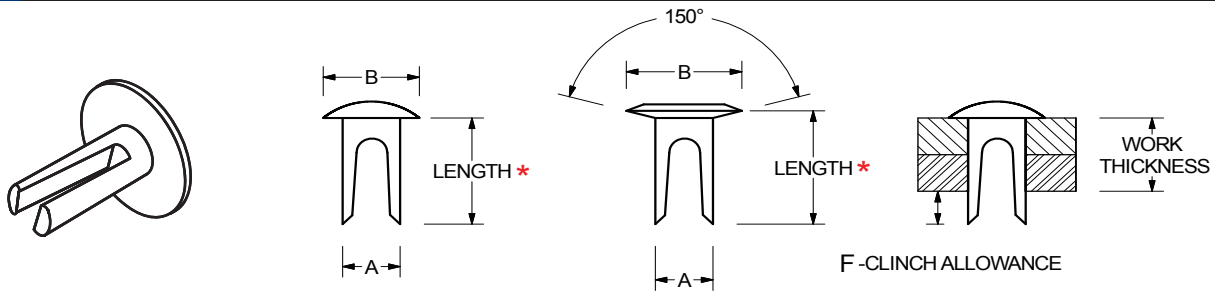
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SPLIT RIVETS



OVAL OR TRUSS STYLE HEAD 150° COUNTERSUNK STYLE HEAD

PART NUMBER	HEAD STYLE	BODY DIAMETER "A"	HEAD DIAMETER "B"	CLINCH ALLOWANCE "F"
SC1-*	OVAL	1/8	7/32	1/8
SC4-*	TRUSS	1/8	5/16	1/8
SC3-*	COUNTERSUNK	1/8	1/4	1/8
SD3-*	OVAL	9/64	5/16	9/64
SD5-*	TRUSS	9/64	3/8	9/64
SD9-*	COUNTERSUNK	9/64	5/16	9/64

***PART NUMBER SYSTEM**

Example: SD3-8-BL

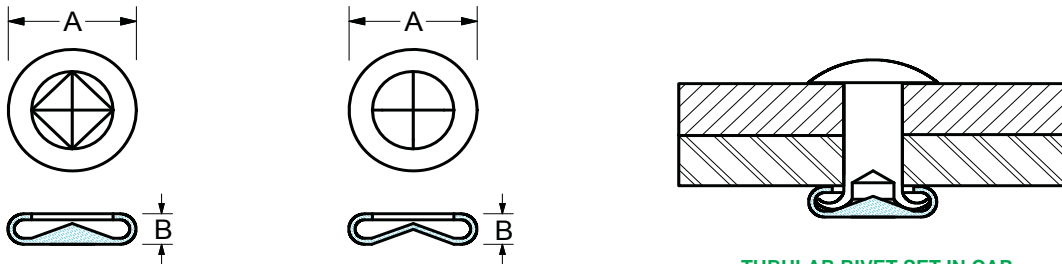
SD3-	8-	BL
PART NUMBER	LENGTH IN 32nds.	FINISH
9/64 Dia. Body 5/16 Dia. Head	8/32 = 1/4"	NI=Nickel BL=Black BZ=Black Zinc BR = Brass

***LENGTH (in 32nds) = WORK THICKNESS + CLINCH ALLOWANCE "F"**

Split Rivets are designed to pierce through soft materials such as wood, plastics, and leather. They are usually installed using Automatic Feed Riveters like those featured on page C88.

We stock Split Rivets made of steel. Other materials available by special order.

RIVET CAPS



CAP FOR TUBULAR RIVETS

CAP FOR SPLIT RIVETS

TUBULAR RIVET SET IN CAP
This gives a finished look on both sides of your work.

FOR RIVET BODY DIAMETER	PART NUMBER	RIVET TYPE	DIAMETER "A" MIN. / MAX.	HEIGHT "B" MIN. / MAX.
1/8	RCT-8-*	TUBULAR	.240/.260	.075/.085
	RCS-8-*	SPLIT	.270/.290	.075/.085
9/64	RCT-9-*	TUBULAR	.325/.345	.075/.085
	RCS-9-*	SPLIT	.325/.345	.075/.085
3/16	RCT-12-*	TUBULAR	.420/.440	.105/.115
	RCS-12-*	SPLIT	.420/.440	.105/.115

We stock Rivet Caps made of STEEL and BRASS.

Standard finishes are: **NICKEL (NI)** • **BLACK (BL)** • **BLACK ZINC (BZ)** • **BRASS (BR)**

*Part number example: RCT-9-NI (Steel Rivet Cap used with 9/64" diameter Tubular Rivets, Nickel Plated).

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Pacoima, CA 91331

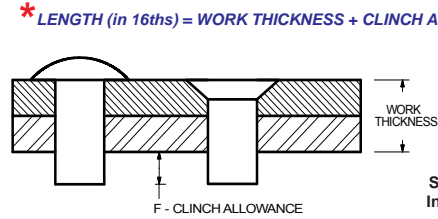
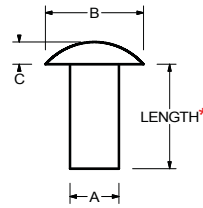
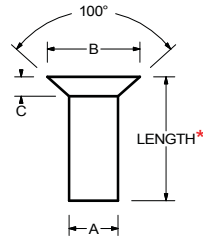
See pages B78-B92 for installation tools and machines

Phone: 818-485-0500
FAX: 818-485-0540

Outside CA: 1-800-RRRIVET
www.hansonrivet.com



AEROSPACE SOLID RIVETS



* LENGTH (in 16ths) = WORK THICKNESS + CLINCH ALLOWANCE "F"

See page C93 for Installation Guide

Nominal Body Diameter:

		1/16	3/32	1/8	5/32	3/16	1/4	5/16	3/8
MS20426 100° COUNTERSUNK	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.128	.155/.159	.186/.190	.249/.253	.311/.315	.374/.378
	"B" HEAD DIAMETER	.110/.118	.175/.183	.221/.229	.282/.290	.349/.357	.472/.480	.560/.568	.690/.698
	"C" HEAD HEIGHT	.022 REF.	.036 REF.	.042 REF.	.055 REF.	.070 REF.	.095 REF.	.106 REF.	.134 REF.
MS20427 100° COUNTERSUNK	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.128	.155/.159	.186/.190	.249/.253	.311/.315	.374/.378
	"B" HEAD DIAMETER	.0898/.1346	.1548/.1900	.2006/.2360	.2566/.2976	.3234/.3654	.4412/.4890	.5288/.5772	.6586/.7074
	"C" HEAD HEIGHT	.0317 MAX.	.0418 MAX.	.0483 MAX.	.0614 MAX.	.0769 MAX.	.1034 MAX.	.1147 MAX.	.1436 MAX.
AN430 ROUND HEAD	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.1285	.155/.160	.186/.191	.249/.254	.311/.316	.374/.379
	"B" HEAD DIAMETER	.119/.131	.178/.196	.250/.262	.296/.328	.356/.394	.475/.525	.594/.656	.713/.787
	"C" HEAD HEIGHT	.042/.052	.065/.075	.089/.099	.112/.122	.134/.148	.179/.197	.222/.246	.267/.295
MS20435 ROUND HEAD	"A" BODY DIAMETER	.059/.066	.090/.097	.121/.129	.152/.160	.183/.192	.245/.254	.305/.317	.365/.380
	"B" HEAD DIAMETER	.109	.166	.219	.273	.327	.438	.546	.656
	"C" HEAD HEIGHT	.047	.071	.094	.117	.140	.188	.234	.281
AN441 FLAT HEAD	"A" BODY DIAMETER	.059/.066	.090/.097	.121/.129	.152/.160	.183/.192	.245/.254	.305/.317	.365/.380
	"B" HEAD DIAMETER	.126	.190	.250	.312	.374	.500	.624	.750
	"C" HEAD HEIGHT	.021	.032	.042	.052	.062	.083	.104	.125
AN442 FLAT HEAD	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.1285	.155/.160	.186/.191	.249/.254	.311/.316	.374/.379
	"B" HEAD DIAMETER	.119/.131	.178/.196	.238/.262	.296/.328	.356/.394	.475/.525	.594/.656	.713/.787
	"C" HEAD HEIGHT	.020/.030	.033/.043	.045/.055	.057/.067	.070/.080	.095/.105	.120/.130	.143/.157
AN455 BRAZIER HEAD	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.1285	.155/.160	.186/.191	.249/.254	.311/.316	.374/.379
	"B" HEAD DIAMETER	.148/.164	.222/.246	.296/.328	.371/.411	.446/.492	.594/.656	.742/.820	.890/.984
	"C" HEAD HEIGHT	.026/.036	.042/.052	.057/.067	.073/.083	.089/.099	.119/.131	.148/.164	.178/.196
AN456 MODIFIED BRAZIER HEAD	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.1285	.155/.160	.186/.191	.249/.254	.311/.316	.374/.379
	"B" HEAD DIAMETER	.106/.126	.146/.166	.225/.245	.302/.322	.380/.400	.458/.478	.613/.637	.766/.796
	"C" HEAD HEIGHT	.020/.030	.026/.036	.042/.052	.058/.068	.073/.083	.089/.099	.120/.130	.151/.161
MS20470 UNIVERSAL HEAD	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.128	.155/.159	.186/.190	.249/.253	.311/.315	.374/.378
	"B" HEAD DIAMETER	.119/.131	.178/.196	.238/.262	.296/.328	.356/.394	.475/.525	.594/.656	.713/.787
	"C" HEAD HEIGHT	.027/.037	.040/.050	.054/.064	.067/.077	.080/.090	.107/.117	.133/.143	.161/.171
MS20613 UNIVERSAL HEAD	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.128	.155/.160	.186/.191	.249/.254	.311/.316	.374/.379
	"B" HEAD DIAMETER	.119/.131	.178/.196	.238/.262	.296/.328	.356/.394	.475/.525	.594/.656	.713/.787
	"C" HEAD HEIGHT	.027/.037	.040/.050	.054/.064	.067/.077	.080/.090	.107/.117	.133/.143	.161/.171
MS20615 UNIVERSAL HEAD	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.128	.155/.160	.186/.191	.249/.254	.311/.316	.374/.379
	"B" HEAD DIAMETER	.119/.131	.178/.196	.238/.262	.296/.328	.356/.394	.475/.525	.594/.656	.713/.787
	"C" HEAD HEIGHT	.027/.037	.040/.050	.054/.064	.067/.077	.080/.090	.107/.117	.133/.143	.161/.171
AN123151 thru AN123450 UNIVERSAL HEAD	"A" BODY DIAMETER	.061/.063	.093/.095	.123/.126	.154/.157	.186/.189	.248/.252	.310/.314	.373/.377
	"B" HEAD DIAMETER	.119/.131	.179/.197	.238/.262	.296/.328	.356/.394	.475/.525	.594/.656	.713/.787
	"C" HEAD HEIGHT	.027/.037	.040/.050	.054/.064	.067/.077	.080/.090	.107/.117	.133/.143	.161/.171
AN123451 thru AN135100 100° COUNTERSUNK	"A" BODY DIAMETER	.061/.063	.093/.095	.123/.126	.154/.157	.186/.189	.248/.252	.310/.314	.373/.377
	"B" HEAD DIAMETER	.099/.107	.164/.172	.210/.218	.272/.280	.337/.347	.460/.470	.548/.558	.678/.688
	"C" HEAD HEIGHT	.019/.023	.033/.037	.039/.043	.052/.056	.067/.071	.092/.096	.103/.107	.131/.135
AN125401 thru AN125700 UNIVERSAL HEAD	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.128	.155/.160	.186/.191	.249/.254	.311/.316	.374/.379
	"B" HEAD DIAMETER	.119/.131	.178/.196	.238/.262	.296/.328	.356/.394	.475/.525	.594/.656	.713/.787
	"C" HEAD HEIGHT	.027/.037	.040/.050	.054/.064	.067/.077	.080/.090	.107/.117	.133/.143	.161/.171
NAS508 UNIVERSAL HEAD	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.128	.155/.160	.186/.191	.249/.254		
	"B" HEAD DIAMETER	.119/.131	.178/.196	.238/.262	.296/.328	.356/.394	.475/.525		
	"C" HEAD HEIGHT	.027/.037	.040/.050	.054/.064	.067/.077	.080/.090	.107/.117		
NAS1097 100° FLUSH SHEAR	"A" BODY DIAMETER		.093/.097	.124/.127	.155/.158	.186/.189	.249/.252		
	"B" HEAD DIAMETER		.1263/.1478	.1742/.1957	.2254/.2469	.2824/.3016	.3756/.3948		
	"C" HEAD HEIGHT		.021 REF.	.0286 REF.	.0372 REF.	.046 REF.	.060 REF.		
NAS1198 UNIVERSAL HEAD	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.128	.155/.160	.186/.191	.249/.254		
	"B" HEAD DIAMETER	.119/.131	.178/.196	.238/.262	.296/.328	.356/.394	.475/.525		
	"C" HEAD HEIGHT	.027/.037	.040/.050	.054/.064	.067/.077	.080/.090	.107/.117		
NAS1199 100° COUNTERSUNK	"A" BODY DIAMETER	.061/.065	.093/.097	.124/.128	.155/.160	.186/.190	.249/.254		
	"B" HEAD DIAMETER	.0898/.1346	.1548/.1900	.2006/.2360	.2566/.2976	.3234/.3654	.4412/.4890		
	"C" HEAD HEIGHT	.0317 MAX.	.0418 MAX.	.0483 MAX.	.0614 MAX.	.0769 MAX.	.1034 MAX.		
	"F" SUGGESTED CLINCH ALLOWANCE:	.062	.094	.125	.156	.187	.250	.312	.375
	SUGGESTED WORK HOLE DIAMETER:	.067	.098	.129	.161	.191	.257	.323	.386
	SUGGESTED DRILL SIZE:	51	40	30	20	11	F	P	W

HANSON RIVET

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Pacoima, CA 91331

Phone: 818-485-0500

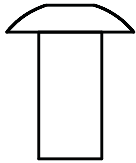
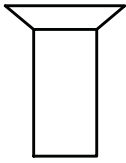
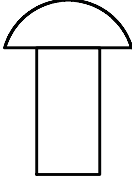
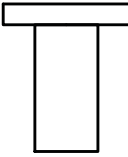
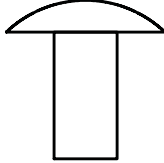
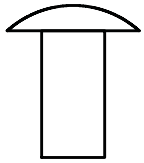
FAX: 818-485-0540

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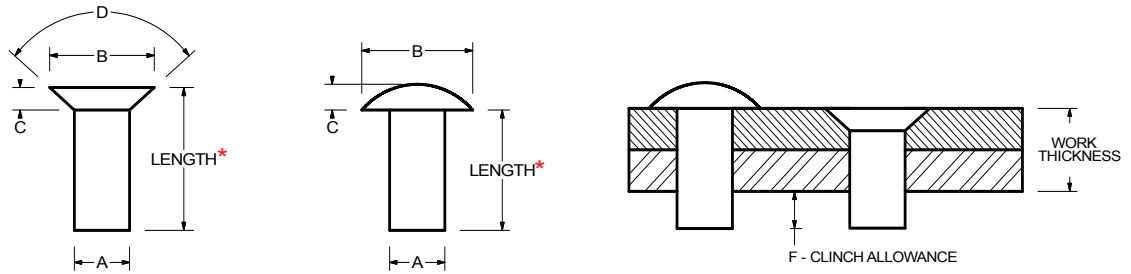


AEROSPACE SOLID RIVETS MATERIALS, HEAD STYLES & MARKS

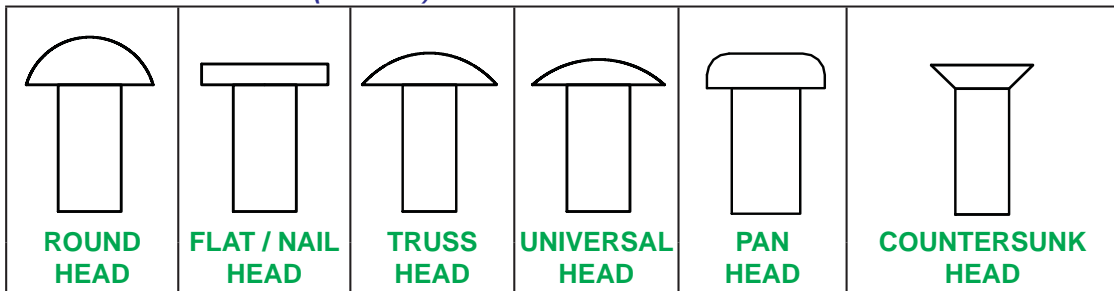
MATERIAL & HEAD MARKING	 UNIVERSAL HEAD	 100° COUNTERSUNK	 ROUND HEAD	 FLAT HEAD	 BRAZIER HEAD	 MODIFIED BRAZIER HEAD
1100-F ALUMINUM No Head Mark	MS20470A	MS20426A	AN430A	AN442A	AN455A	AN456A
2117-T4 ALUMINUM Dimple	MS20470AD	MS20426AD	AN430AD	AN442AD	AN455AD	AN456AD
5056-H32 ALUMINUM Raised Cross	MS20470B	MS20426B	AN430B	AN442B	AN455B	AN456B
2017-T4 ALUMINUM Raised Dot	MS20470D	MS20426D	AN430D	AN442D	AN455D	AN456D
2024-T4 ALUMINUM Raised Double Dash	MS20470DD	MS20426DD	AN430DD	AN442DD	AN455DD	AN456DD
2219-T81 ALUMINUM Indented Square	MS20470K	MS20426K				
7050-T73 ALUMINUM Indented Ring	MS20470E	MS20426E				
45Cb TITANIUM Indented Diamond	MS20470T	MS20426T				
2219-T62 ALUMINUM Indented Triangle	MS20470J	MS20426J				
CARBON STEEL Head Mark Varies	MS20613_P AN125551 to AN125700	MS20427	MS20435	AN441		
COPPER No Head Mark	MS20615_CU	MS20427C	MS20435C	AN441C		
BRASS No Head Mark	MS20615_B	MS20427B	MS20435B	AN441B		
300 SERIES STAINLESS Head Mark Varies	MS20613_C AN125401 to AN125550	MS20427F AN124951 to AN125100	MS20435F	AN441F		
MONEL Head Mark Varies	MS20615_M NAS508	MS20427M	MS20435M	AN441M		
INCONEL No Head Mark	AN123301 to AN123450	AN123601 to AN123750				
347 STAINLESS No Head Mark	AN123151 to AN123300	AN123451 to AN123600				
A286 HIGH TEMP STAINLESS Raised Dot	NAS1198	NAS1199				



COMMERCIAL SOLID RIVETS



***LENGTH OF RIVET (in 16ths) = WORK THICKNESS + CLINCH ALLOWANCE "F"**



BODY DIAMETER "A"	HEAD DIA. "B"		HEAD HEIGHT "C"		HEAD DIA. "B"		HEAD HEIGHT "C"		HEAD DIA. "B"		HEAD HEIGHT "C"		C.S. DEGREE "D"	SUGGESTED CLINCH ALLOWANCE "F"	
	NOMINAL	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.	MIN./MAX.*	REF.			
1/16	.059/.064	.102/.122	.042/.052	.120/.140	.017/.027			.115/.135	.027/.037	.098/.118	.030/.040	.110/.118	.027	90°	.062
3/32	.090/.096	.162/.182	.065/.077	.180/.200	.026/.038	.206/.226	.026/.038	.177/.197	.039/.051	.153/.173	.048/.060	.163/.176	.040	90°	.094
1/8	.121/.127	.215/.235	.088/.100	.240/.260	.036/.048	.277/.297	.036/.048	.240/.260	.053/.065	.205/.225	.066/.078	.217/.235	.053	90°	.125
5/32	.152/.158	.268/.290	.110/.124	.301/.323	.045/.059	.348/.368	.045/.059	.301/.323	.065/.079	.257/.279	.082/.096	.272/.293	.066	90°	.156
3/16	.182/.191	.322/.348	.133/.147	.361/.387	.055/.069	.422/.442	.055/.069	.361/.387	.078/.092	.308/.334	.100/.114	.326/.351	.079	90°	.187
1/4	.244/.253	.430/.460	.180/.196	.485/.515	.075/.091	.560/.590	.075/.091	.485/.515	.104/.120	.414/.444	.135/.151	.437/.469	.106	90°	.250
5/16	.304/.316	.538/.572	.225/.243	.607/.641	.095/.113	.702/.732	.095/.113	.607/.641	.129/.147	.518/.552	.169/.187	.547/.588	.133	90°	.312
3/8	.365/.380	.646/.684	.271/.291	.731/.769	.115/.135	.848/.878	.115/.135	.731/.769	.156/.176	.625/.663	.205/.225	.656/.704	.159	90°	.375
7/16	.428/.443	.754/.798	.317/.339	.852/.896	.135/.157	.990/1.020	.135/.157			.728/.772	.239/.261	.765/.823	.186	90°	.438
1/2	.478/.520	.844/.938	.375/.406	.844/.938	.250/.281							.872/.936	.260	78°	.500
5/8	.600/.655	1.063/1.157	.469/.500	1.063/1.157	.313/.344							1.112/1.194	.339	78°	.625
3/4	.725/.780	1.281/1.390	.562/.593	1.281/1.390	.375/.406							1.322/1.421	.400	78°	.750
7/8	.850/.905	1.500/1.609	.656/.687	1.500/1.609	.438/.469							1.532/1.647	.460	78°	.875
1	.975/1.030	1.719/1.828	.750/.781	1.719/1.828	.500/.531							1.745/1.873	.520	78°	1.000

Standard materials: STEEL ● ALUMINUM ● BRASS ● COPPER ● STAINLESS STEEL ● MONEL

Many finishes and colors are available. We also stock many non-standard sizes, please call us with your requirements.

*NOTE: Countersunk head dimensions may be theoretical to sharp edge of head.

HANSON RIVET & SUPPLY CO.

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Pacoima, CA 91331

Phone: 818-485-0500
FAX: 818-485-0540

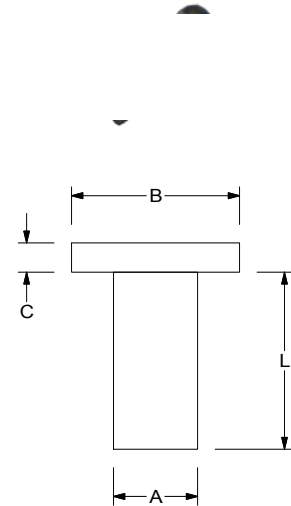
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TINNERS RIVETS

PART NUMBER	SIZE	BODY DIAMETER "A" MIN / MAX	HEAD DIAMETER "B" MIN / MAX	HEAD HEIGHT "C" MIN / MAX	LENGTH "L" MIN / MAX
TRS006	6 OZ	.075/.081	.193/.213	.016/.028	.115/.135
TRS008	8 OZ	.085/.091	.205/.225	.024/.036	.146/.166
TRS010	10 OZ	.091/.097	.230/.250	.025/.037	.162/.182
TRS012	12 OZ	.101/.107	.245/.265	.025/.037	.178/.198
TRS014	14 OZ	.105/.111	.255/.275	.026/.038	.178/.198
TRSL01	1 LB	.107/.113	.265/.285	.028/.040	.193/.213
TRSL01.25	1 1/4 LB	.116/.122	.275/.295	.033/.045	.209/.229
TRSL01.5	1 1/2 LB	.126/.132	.294/.316	.034/.046	.224/.244
TRSL01.75	1 3/4 LB	.130/.136	.309/.331	.035/.049	.240/.260
TRSL02	2 LB	.140/.146	.319/.341	.036/.050	.256/.276
TRSL02.5	2 1/2 LB	.144/.150	.289/.311	.055/.069	.271/.291
TRSL03	3 LB	.154/.163	.303/.329	.059/.073	.303/.323
TRSL03.5	3 1/2 LB	.159/.168	.322/.348	.060/.074	.318/.338
TRSL04	4 LB	.170/.179	.342/.368	.062/.076	.334/.354
TRSL05	5 LB	.181/.190	.362/.388	.070/.084	.365/.385
TRSL06	6 LB	.197/.206	.393/.419	.076/.090	.381/.401
TRSL07	7 LB	.214/.223	.405/.431	.080/.094	.396/.416
TRSL08	8 LB	.218/.227	.445/.475	.085/.101	.428/.448
TRSL09	9 LB	.232/.241	.460/.490	.087/.103	.443/.463
TRSL10	10 LB	.232/.241	.475/.505	.088/.104	.459/.479
TRSL12	12 LB	.251/.263	.498/.532	.090/.108	.490/.510
TRSL14	14 LB	.276/.288	.543/.577	.095/.113	.505/.525
TRSL16	16 LB	.292/.304	.563/.597	.110/.128	.521/.541
TRSL18	18 LB	.335/.347	.668/.706	.136/.156	.583/.603

Tinners Rivets are solid steel rivets with either a tin or zinc finish. They are typically used in sheet metal fabrication.



Size numbers in ounces and pounds refer to the approximate weight of 1,000 pieces of steel rivets.

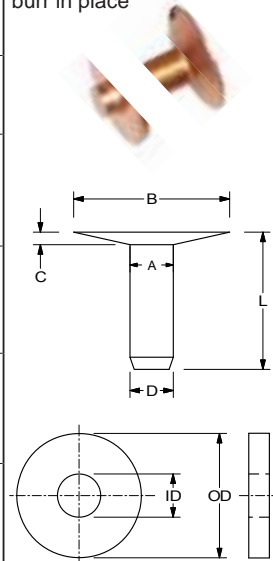
COPPER BELT RIVETS & BURRS

COPPER BELT RIVETS

PART NUMBER	SIZE	BODY DIAMETER Under Head "A"	BODY DIAMETER Tip of Shank "D"	LENGTH OVER ALL "L"	HEAD DIAMETER (Nominal) "B"	HEAD HEIGHT (Nominal) "C"
CBR0608	#6 x 1/2			.500		
CBR0610	#6 x 5/8	.228	.190	.625	.687	.090
CBR0612	#6 x 3/4			.750		
CBR0708	#7 x 1/2			.500		
CBR0710	#7 x 5/8	.191	.160	.625	.562	.070
CBR0712	#7 x 3/4			.750		
CBR0806	#8 x 3/8			.375		
CBR0808	#8 x 1/2			.500		
CBR0810	#8 x 5/8	.181	.155	.625	.500	.063
CBR0812	#8 x 3/4			.750		
CBR0906	#9 x 3/8			.375		
CBR0908	#9 x 1/2			.500		
CBR0910	#9 x 5/8	.161	.135	.625	.468	.058
CBR0912	#9 x 3/4			.750		
CBR1006	#10 x 3/8			.375		
CBR1008	#10 x 1/2			.500		
CBR1010	#10 x 5/8	.151	.130	.625	.437	.055
CBR1012	#10 x 3/4			.750		
CBR1206	#12 x 3/8			.375		
CBR1208	#12 x 1/2			.500		
CBR1210	#12 x 5/8	.137	.120	.625	.375	.045
CBR1212	#12 x 3/4			.75		

COPPER BURRS

Copper Belt Rivets are typically used in leather work. The burr is placed over the end of the rivet shank then the end of the rivet is peened with a hammer locking the burr in place.



HANSON RIVET & SUPPLY CO.

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Pacoima, CA 91331

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FAX: 818-485-0540

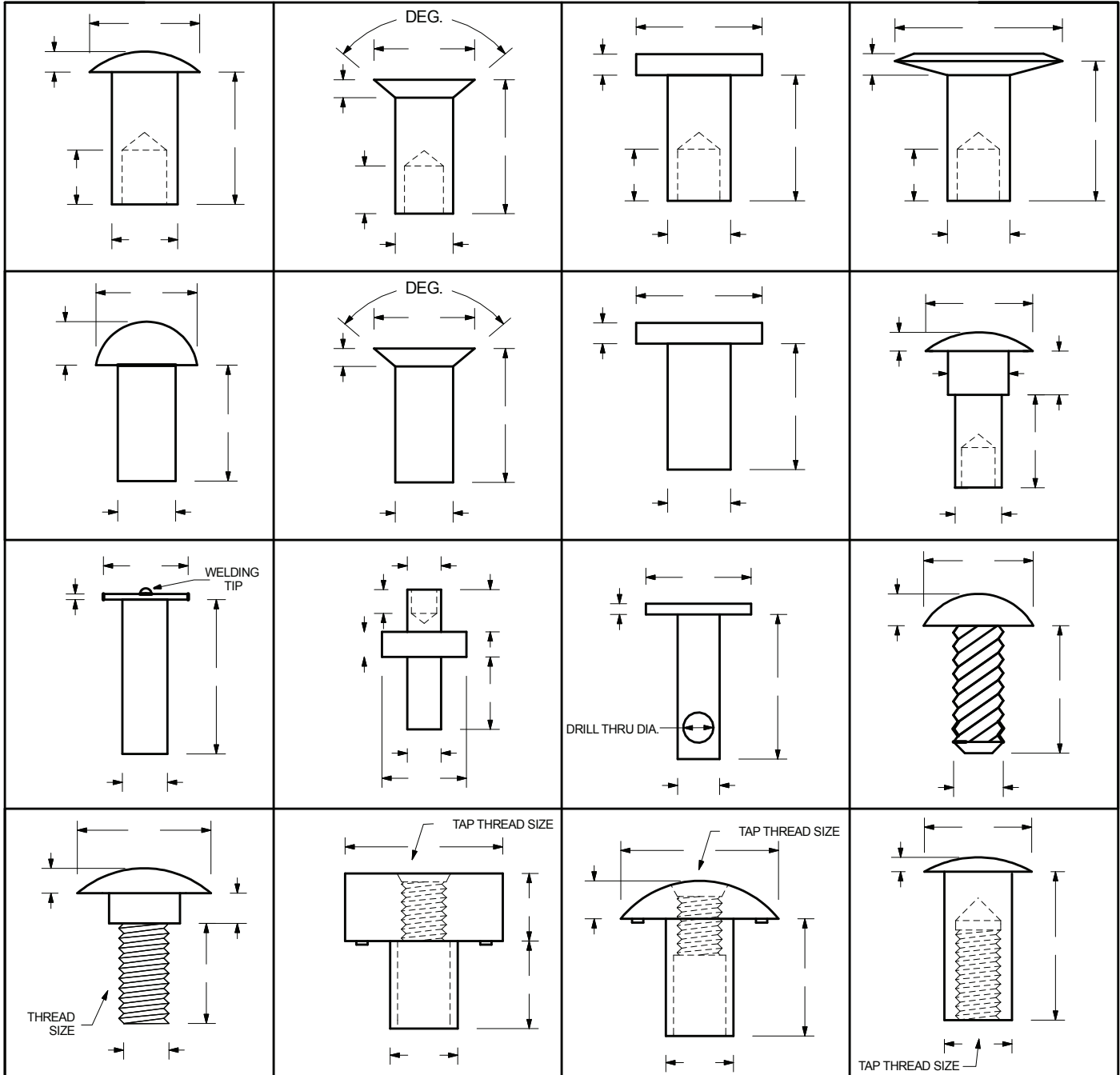
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www.hansonrivet.com



DESIGN-A-RIVET

Can't find what you're looking for? We can supply custom cold-headed rivets and parts from .028" to 1.5" diameter! Simply FAX us your drawing or fill in dimensions on this sheet and FAX it to us. Cold-heading is an economical way to produce fasteners and many parts. Often screw machined parts can be cold-headed at reduced cost and increased strength! We look forward to your inquiry and quoting your requirements.



HEAD STYLE		BODY STYLE		MATERIAL		FINISH		
OVAL	TRUSS	SOLID	TAPPED	STEEL	MONEL	ZINC	PLAIN	CAD
ROUND	FLAT/NAIL	TUBULAR	THREADED	BRASS	STAINLESS	BRASS	TIN	COPPER
COUNTERSUNK	UNIVERSAL	CROSS-DRILLED	KNURLED	COPPER	ALUMINUM	NICKEL	BLACK	ANODIZE

C10

PLEASE CIRCLE THE APPROPRIATE CHOICES ABOVE:

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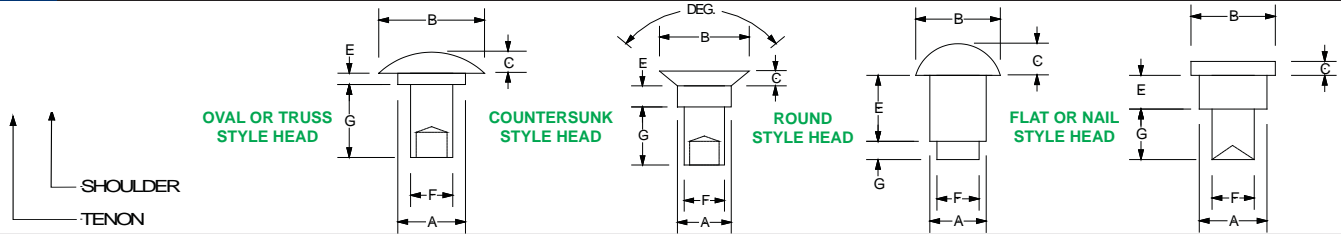
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SHOULDER RIVETS



PART NUMBER	HEAD STYLE	SHOULDER DIAMETER	SHOULDER LENGTH	TENON DIAMETER	TENON LENGTH	HEAD DIAMETER	HEAD HEIGHT	RIVET TYPE	MATERIAL	FINISH
		"A"	"E"	"F"	"G"	"B"	"C"			
6-0306-0302	OVAL	.110	.187	.095	.060	.185	.035	SOLID	STEEL	BRASS
6-0402-0303	OVAL	.118	.056	.090	.085	.221	.035	SEMI-TUBULAR	STEEL	NICKEL
6-0402-0303.1	OVAL	.120	.085	.087	.104	.220	.034	SEMI-TUBULAR	ALUMINUM	PLAIN
6-0402-0304	TRUSS	.135	.071	.091	.110	.310	.035	SEMI-TUBULAR	STEEL	NICKEL
6-0404-0304	100°CTSK	.140	.140	.110	.120	.215	.045	SEMI-TUBULAR	STEEL	ZINC
6-0404-0306	OVAL	.120	.135	.095	.200	.230	.034	SEMI-TUBULAR	STEEL	PLAIN
6-0404-0403	FLAT	.141	.130	.125	.090	.210	.035	SEMI-TUBULAR	304 STAINLESS	PASSIVATED
6-0406-0302	OVAL	.112	.187	.095	.060	.285	.034	SOLID	STEEL	PLAIN
6-0408-0304	FLAT	.125	.247	.090	.135	.250	.035	SEMI-TUBULAR	STEEL	TRIVALENT
6-0417-0303	OVAL	.120	.525	.085	.100	.205	.042	SEMI-TUBULAR	STEEL	NICKEL
6-0501-0403.5	120°CTSK	.140	.040	.121	.110	.240	.035	SEMI-TUBULAR	STEEL	ZINC
6-0503-0303	FLAT	.160	.093	.093	.094	.250	.093	SEMI-TUBULAR	STEEL	PLAIN
6-0505-0309	OVAL	.150	.150	.095	.295	.220	.030	SEMI-TUBULAR	STEEL	ZINC
6-0508-0304	TRUSS	.150	.250	.080	.110	.370	.065	SOLID	BRASS	PLAIN
6-0514-0303	OVAL	.155	.437	.090	.100	.285	.087	SOLID	ALUMINUM	PLAIN
6-0602-0402	OVAL	.175	.050	.120	.084	.280	.035	SEMI-TUBULAR	STEEL	TRIVALENT
6-0602-0403	OVAL	.179	.041	.120	.090	.280	.165	SEMI-TUBULAR	STEEL	TRIVALENT
6-0602-0403.1	FLAT	.170	.060	.125	.100	.360	.060	SEMI-TUBULAR	STEEL	TRIVALENT
6-0602-0502	FLAT	.198	.067	.151	.075	.312	.030	SEMI-TUBULAR	STEEL	TRIVALENT
6-0602-0502.1	FLAT	.198	.065	.151	.076	.312	.030	SOLID	STEEL	ZINC
6-0602-0504	OVAL	.198	.064	.151	.119	.312	.057	SEMI-TUBULAR	CRS STEEL	TRIVALENT
6-0602-0504.1	OVAL	.198	.056	.151	.120	.312	.062	SEMI-TUBULAR	STEEL	TRIVALENT
6-0602-0504.2	OVAL	.198	.060	.151	.119	.312	.062	SEMI-TUBULAR	STEEL	TRIVALENT
6-0602-0505	OVAL	.187	.074	.143	.161	.312	.065	SEMI-TUBULAR	ALUMINUM	PLAIN
6-0603-0405	FLAT	.186	.090	.123	.160	.385	.050	SOLID	STEEL	ZINC
6-0603-0405.1	OVAL	.186	.190	.120	.144	.442	.078	SEMI-TUBULAR	STEEL	ZINC
6-0603-0407	FLAT	.192	.090	.123	.218	.375	.032	SOLID	STEEL	PLAIN
6-0603-0504.1	TRUSS	.198	.109	.151	.135	.312	.062	SEMI-TUBULAR	STEEL	TRIVALENT
6-0603-0505.1	TRUSS	.185	.075	.145	.156	.375	.062	SEMI-TUBULAR	STEEL	ZINC
6-0603-0508	OVAL	.187	.093	.153	.250	.312	.062	SEMI-TUBULAR	5052	BLACK
6-0604-0404	OVAL	.155	.437	.090	.100	.285	.087	SOLID	ALUMINUM	PLAIN
6-0604-0404.1	OVAL	.185	.135	.120	.120	.310	.087	SOLID	1100F ALUMINUM	PLAIN
6-0605-0514	150°CTSK	.175	.150	.140	.250	.315	.032	SEMI-TUBULAR	ALUMINUM	PLAIN
6-0608-0504	FLAT	.185	.250	.156	.125	.250	.030	SEMI-TUBULAR	STEEL	ZINC
6-0691-0404	OVAL	.185	2.850	.145	.150	.310	.060	SEMI-TUBULAR	STEEL	PLAIN
6-0703-0605	FLAT	.227	.080	.187	.158	.375	.046	SOLID	STEEL	PLAIN
6-0703-0605.1	FLAT	.227	.080	.187	.158	.375	.046	SOLID	STEEL	TRIVALENT
6-0803-0502.5	FLAT	.245	.082	.152	.078	.402	.040	SOLID	STEEL	ZINC
6-0803-0503	FLAT	.236	.106	.154	.106	.394	.039	SOLID	STEEL	ZINC
6-0803-0504	FLAT	.271	.078	.154	.125	.375	.060	SEMI-TUBULAR	STEEL	ZINC
6-0803-0604	FLAT	.249	.094	.187	.132	.376	.060	SOLID	STEEL	ZINC
6-0803-0605.1	FLAT	.248	.102	.186	.140	.381	.062	SOLID	STEEL	ZINC
6-0805-0603	FLAT	.245	.149	.181	.093	.375	.027	SEMI-TUBULAR	STEEL	ZINC
6-0805-0605	FLAT	.248	.158	.185	.158	.400	.100	SEMI-TUBULAR	430 STAINLESS	PASSIVATED
6-0805-0608	OVAL	.248	.140	.185	.247	.440	.078	SEMI-TUBULAR	430 STAINLESS	PLAIN
6-0806-0605	FLAT	.246	.177	.185	.145	.400	.035	SEMI-TUBULAR	STEEL	BLACK ZINC
6-0806-0607.1	FLAT	.245	.180	.185	.218	.437	.062	SOLID	STEEL	ZINC
6-0812-0606	FLAT	.250	.375	.187	.187	.375	.065	SOLID	STEEL	ZINC
6-0814-0506	FLAT	.248	.433	.169	.188	.437	.215	SEMI-TUBULAR	STEEL	PLAIN
6-0904-0809	OVAL	.277	.136	.248	.284	.495	.085	SEMI-TUBULAR	STEEL	ZINC
6-1003-0807	FLAT	.314	.102	.247	.215	.500	.120	SOLID	C1006 STEEL	ZINC
6-1003-0807.1	FLAT	.315	.105	.245	.205	.445	.105	SOLID	STEEL	PLAIN
6-1003-0808	FLAT	.304	.100	.243	.218	.440	.077	SEMI-TUBULAR	STEEL	ZINC
6-1003-0808.1	FLAT	.290	.076	.248	.268	.437	.087	SEMI-TUBULAR	STEEL	PLAIN
6-1003-0808.2	FLAT	.290	.100	.248	.268	.437	.087	SEMI-TUBULAR	STEEL	PLAIN
6-1004-0807	FLAT	.314	.117	.247	.215	.314	.117	SOLID	C1006 STEEL	ZINC
6-1005-0807	FLAT	.312	.140	.250	.210	.500	.125	SOLID	C1106 STEEL	YELLOW ZINC
6-1005-0809	FLAT	.312	.159	.244	.281	.500	.060	SEMI-TUBULAR	430 STAINLESS	PLAIN
6-1006-0606	FLAT	.312	.188	.185	.188	.612	.093	SEMI-TUBULAR	5056ALUMINUM	PLAIN
6-1006-0609	OVAL	.313	.188	.188	.290	.612	.093	SEMI-TUBULAR	5056ALUMINUM	PLAIN
6-1009-0810	PAN	.312	.275	.248	.330	.500	.150	SEMI-TUBULAR	STEEL	PLAIN
6-1010-0808.1	FLAT	.310	.312	.247	.260	.500	.070	SEMI-TUBULAR	STEEL	BLACK ZINC
6-1010-0809	FLAT	.312	.312	.250	.281	.500	.062	SEMI-TUBULAR	430 STAINLESS	PLAIN
6-1020-0618	FLAT	.320	.630	.195	.560	.500	.100	SOLID	C1006 STEEL	PLAIN
6-1203-0805	FLAT	.375	.085	.250	.146	.625	.060	SEMI-TUBULAR	STEEL	CLEAR ZINC
6-1205-0807	OVAL	.375	.150	.250	.210	.500	.055	SOLID	STEEL	PLAIN
6-1209-1011	FLAT	.375	.280	.312	.338	.750	.100	SEMI-TUBULAR	STEEL	BLACK ZINC
6-1225-1011	FLAT	.375	.780	.312	.338	.750	.100	SEMI-TUBULAR	STEEL	BLACK ZINC
6-2006-1413	FLAT	.625	.170	.435	.400	.980	.135	SEMI-TUBULAR	STEEL	BLACK OXIDE

The Shoulder Rivets on this page are sizes we typically have in stock. We are constantly adding new sizes and can supply Shoulder Rivets made to your specifications. If you don't see what you are looking for please give us a call. We may have a limited supply of some sizes of Shoulder Rivets and may require a minimum order to produce more.

D11

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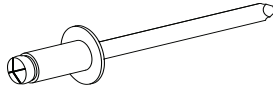
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BLIND RIVETS

Open-End Rivets

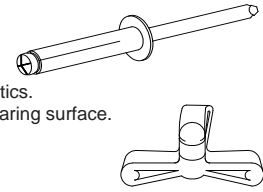
- Strong, low cost fastener.
- Available in a variety of materials.
- Ideal for a wide range of applications.
- Dome, Large Flange, and Countersunk head styles.



Pages C14 - C21

Tri-Grip Rivets

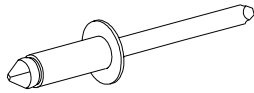
- Resists pull-out and cracking the work piece.
- Excellent for brittle and soft materials like plastics.
- Extra large secondary head provides more bearing surface.



Pages C36 - C37

Easy-Entry Rivets

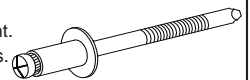
- Increase productivity.
- Same advantages of Open-End rivets.
- Rivet tip cone shaped for faster installation.
- Large expansion capabilities for strong joints.



Page C20

Q Rivets

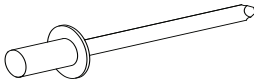
- Greater shear strength.
- 100% mandrel retention.
- Designed to be weather-tight and vibration resistant.
- Dome, Large Flange, and Countersunk head styles.



Pages C27 - C31

Closed-End Rivets

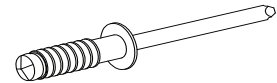
- 100% mandrel retention
- Provides greater strength.
- Prevents leakage of liquid and vapor.
- Large expansion capabilities for strong joints.



Pages C22 - C23

Groove Rivets

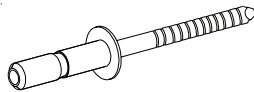
- Fasten metal to wood!
- Great for blind non-through holes.



Pages C32

Structural Rivets

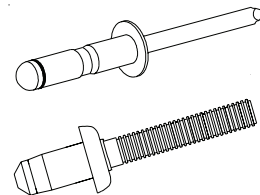
- High strength blind rivet.
- 100% mandrel retention.
- Positive mechanical locking system.
- Dome, Large-Flange, and Countersunk head styles.



Pages C24 - C25

High Strength Rivets

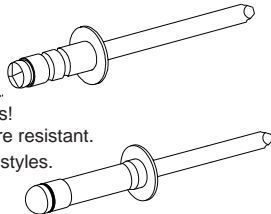
- Large blind-side footprint.
- Positive mandrel retention.
- Good choice for thin and brittle materials.



Pages C38 - C39

Multi-Grip Rivets

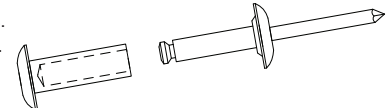
- Optimum work clamp-up force.
- Accommodates oversized and irregular holes.
- Extra Wide grip range reduces inventory items!
- High mandrel retention, vibration, and moisture resistant.
- Dome, Large-Flange, and Countersunk head styles.



Pages C40 - C41

Mate Rivets

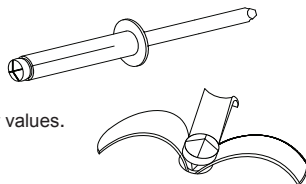
- 2 piece fastener.
- Very clean finish on both sides.
- Large grip range - up to 3-7/8".



Page C42

T-Rivets

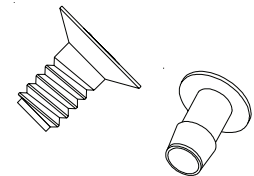
- Exceptional pull-up force.
- Wide "flower style" secondary head.
- Designed for structural applications.
- Mandrel breaks flush for greater shear values.



Pages C32 - C35

Speed Fastening®

- Rivets automatically feed in a hand held tool!
- Available in a variety of materials.
- Ideal for a wide range of applications.
- Low cost investment for tools.



Pages C49 - C53



BLIND RIVETS

HOW THEY WORK!

A Blind Rivet consists of two parts: the rivet body and, within it, the setting mandrel.

1. The Blind Rivet body is inserted in a hole in the materials to be joined.
2. The Blind Rivet tool is placed over the mandrel. The tool is actuated and the jaws of the tool grip the mandrel.
3. The jaws retract, extracting the mandrel which pulls the mandrel head into the rivet body setting the rivet. At a predetermined tensile load, the mandrel breaks from its head and is discarded.

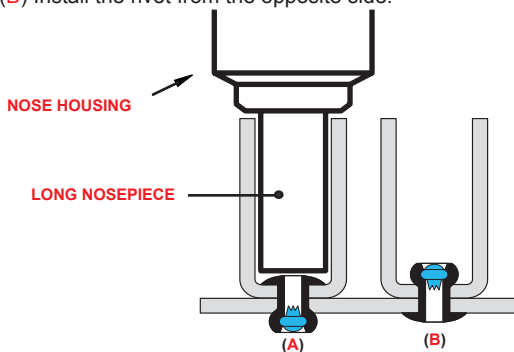
This forms a strong, tight, reliable joint. Because this is all done from one side these are called **BLIND** rivets.

DESIGN GUIDELINES

Channel Material

(A) If the nose housing of the tool is too large in diameter to reach the bottom of a channel, use a long nosepiece on the tool. A rivet with an extra long mandrel may be required.

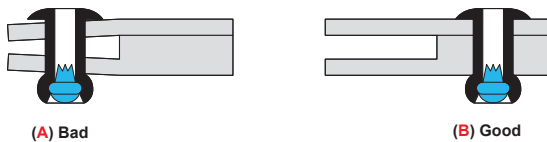
(B) Install the rivet from the opposite side.



Gap Fastening

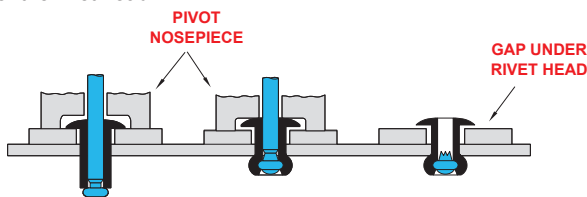
(A) Avoid riveting unsupported internal sections which may result in collapsing, dimpling or buckling the material.

(B) Select supported sections for best success.



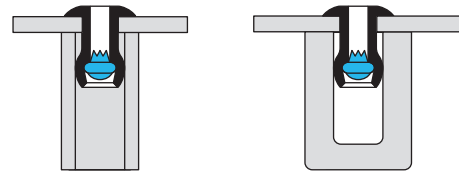
Pivot Fastening

When the fastened part must rotate on the rivet, a "pivot style" nosepiece on the rivet tool may be necessary to provide a small gap under the rivet head.



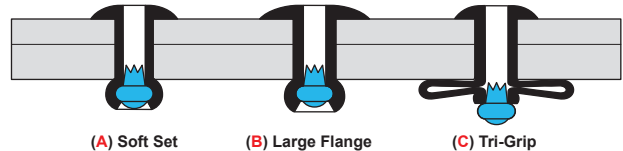
Fastening in a Blind Hole

Blind rivets may be set in a blind hole or milled slot. The success of this depends on the material of the parts to be riveted and the material of the rivet. Testing will be required.



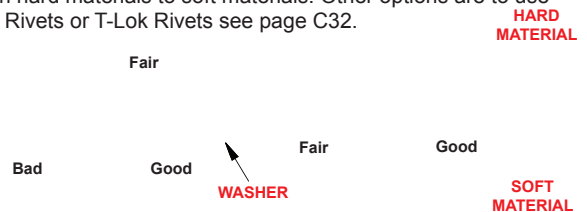
Riveting Plastic Material

Select: (A) "Soft Set" aluminum rivets see page C20, (B) Large Flange style rivets or (C) "Tri-Grip" rivets.



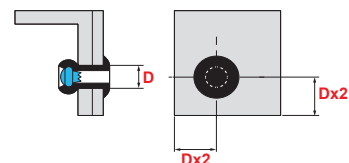
Hard to Soft Materials

The following illustration is a guide for using standard blind rivets to fasten hard materials to soft materials. Other options are to use Groove Rivets or T-Lok Rivets see page C32.



Edge Distance

We recommend 2 times the rivet body diameter (D) or more from the center of the rivet to the edge of the work piece to avoid material fracture.



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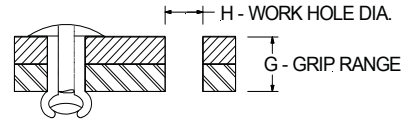
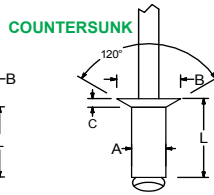
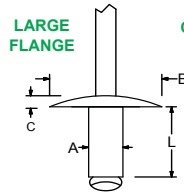
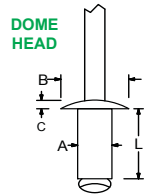
FAX: 818-485-0540

Outside CA: 1-800-RRRIVET

www.hansonrivet.com



BLIND RIVETS



RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	POP®	Avdel®	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)			
											SHEAR	TENSILE		
ALUMINUM RIVET PLAIN FINISH	DOME HEAD	PASD302	AD32BS	BSPS-03-02	.094	.097/.100	.031-.125	.240	.188	.032	125	175		
		PASD304	AD34BS	BSPS-03-04	3/32	#41	.126-.250	.365						
		PASD306					.078-.118	.236						
		PASD308				.118	.122/.126	.188-.197	.315			160	200	
		PASD318				1/8		.512-.590	.740	.242	.047			
		PASD320						.591-.670	.819					
		PASD325						.671-.866	1.016					
		PASD330						.867-1.024	1.214					
		PASD401	AD41BS	BSPS-04-01				.031-.062	.203					
		PASD402	AD42BS	BSPS-04-02				.063-.125	.265					
		PASD403	AD43BS	BSPS-04-03				.126-.187	.328					
		PASD404	AD44BS	BSPS-04-04			.125	.129/.133	.188-.250	.390			210	325
		PASD405	AD45BS	BSPS-04-05			1/8	#30	.251-.312	.453				
		PASD406	AD46BS	BSPS-04-06					.313-.375	.515				
		PASD408	AD48BS	BSPS-04-08					.376-.500	.640				
		PASD410	AD410BS	BSPS-04-10					.501-.625	.765				
		PASD502	AD52BS	BSPS-05-02			.156	.160/.164	.063-.125	.290				
		PASD503	AD53BS	BSPS-05-03					.126-.187	.353				
		PASD504	AD54BS	BSPS-05-04			5/32	#20	.188-.250	.415	.312	.047	340	490
		PASD506	AD56BS	BSPS-05-06					.251-.375	.540				
		PASD508	AD58BS	BSPS-05-08					.376-.500	.665				
		PASD510	AD510BS	BSPS-05-10					.501-.625	.770				
		PASD418					.157	.160/.164	.490-.570	.740				
		PASD420					5/32	#20	.571-.650	.819				
		PASD425							.651-.845	1.016	.296	.059	190	225
		PASD430							.846-1.025	1.214				
		PASD435							1.026-1.180	1.411				
		PASD440							1.181-1.380	1.608				
		PASD602	AD62BS	BSPS-06-02			.187	.192/.196	.063-.125	.315				
		PASD604	AD64BS	BSPS-06-04					.126-.250	.440				
PASD606	AD66BS	BSPS-06-06					.251-.375	.565						
PASD608	AD68BS	BSPS-06-08			3/16	#11	.376-.500	.690	.375	.055	445	720		
PASD610	AD610BS	BSPS-06-10					.501-.625	.815						
PASD612	AD612BS	BSPS-06-12					.626-.750	.940						
PASD614	AD614BS	BSPS-06-14					.751-.875	1.065						
PASD616	AD616BS	BSPS-06-16					.876-1.000	1.190						
PASD535					.197	.200/.204	.984-1.181	1.411						
PASD540					3/16	#7	1.182-1.378	1.608						
PASD545							1.379-1.575	1.805						
PASD550							1.576-1.770	2.002	.355	.063	450	630		
PASD555							1.771-1.890	2.199						
PASD560							1.891-2.047	2.396						
PASD565							2.048-2.244	2.593						
PASD570							2.245-2.440	2.790						
PASD580							2.441-2.835	3.184						
PASD804	AD84BS	BSPS-08-04			.250	.257/.261	.063-.250	.490						
PASD806	AD86BS	BSPS-08-06					.251-.375	.615						
PASD808	AD88BS	BSPS-08-08			1/4	F	.376-.500	.740	.500	.073	890	1200		
PASD810	AD810BS	BSPS-08-10					.501-.625	.865						
PASD812	AD812BS	BSPS-08-12					.626-.750	.990						
PASD816	AD816BS	BSPS-08-16					.751-1.000	1.240						
PASL402	AD42BSLF	BSLS-04-02			.125	.129/.133	.031-.125	.265						
PASL403	AD43BSLF	BSLS-04-03					.126-.187	.328						
PASL404	AD44BSLF	BSLS-04-04			1/8	#30	.188-.250	.390	.375	.045	210	325		
PASL405	AD45BSLF	BSLS-04-05					.251-.312	.438						
PASL406	AD46BSLF	BSLS-04-06					.251-.375	.515						
PASL504	AD54BSLF	BSLS-05-04			.156	.160/.164	.126-.250	.415	.468	.075	340	490		
PASL602	AD62BSLF	BSLS-06-02			.187	.192/.196	.063-.125	.315						
PASL604	AD64BSLF	BSLS-06-04					.063-.250	.450						
PASL606	AD66BSLF	BSLS-06-06					.251-.375	.565						
PASL608	AD68BSLF	BSLS-06-08			3/16	#11	.376-.500	.690	.625	.092	445	720		
PASL610	AD610BSLF	BSLS-06-10					.501-.625	.815						
PASL612	AD612BSLF	BSLS-06-12					.626-.750	.940						
PASL614	AD614BSLF	BSLS-06-14					.751-.875	1.065						
PASL616	AD616BSLF	BSLS-06-16					.876-1.000	1.190						
PASL618	AD618BSLF	BSLS-06-18					1.01-1.125	1.325						
PASK302		BSCS-03-02			.094	.097/.100	.031-.125	.250	.188	.032	125	175		
PASK304		BSCS-03-04			3/32	#41	.126-.250	.375						
PASK402	AK42BS	BSCS-04-02					.063-.125	.265						
PASK403	AK43BS	BSCS-04-03					.126-.187	.328						
PASK404	AK44BS	BSCS-04-04			.125	.129/.133	.188-.250	.390	.220	.035	210	325		
PASK405	AK45BS	BSCS-04-05			1/8	#30	.251-.312	.453						
PASK406	AK46BS	BSCS-04-06					.313-.375	.515						
PASK408	AK48BS	BSCS-04-08					.376-.500	.640						
PASK502	AK52BS	BSCS-05-02			.156	.160/.164	.063-.125	.290						
PASK504	AK54BS	BSCS-05-04			5/32	#20	.126-.250	.415	.281	.040	340	490		
PASK506	AK56BS	BSCS-05-06					.251-.375	.540						
PASK604	AK64BS	BSCS-06-04			.187	.192/.196	.126-.250	.440	.348	.050	445	720		
PASK606	AK66BS	BSCS-06-06					.251-.375	.565						
PASK608	AK68BS	BSCS-06-08			3/16	#11	.376-.500	.690						

OTHER COLORS
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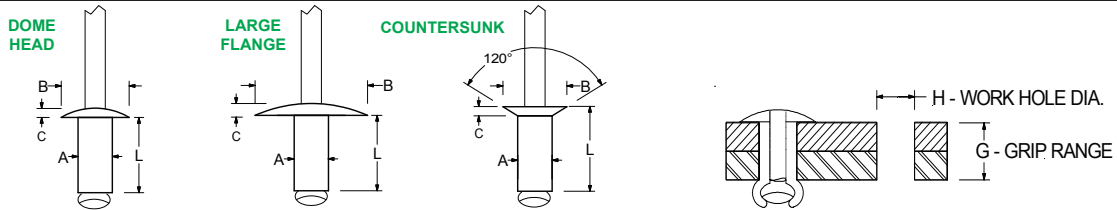
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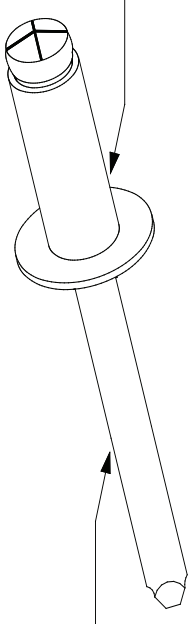
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BLIND RIVETS



RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	POP®	Avdel®	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)								
											SHEAR	TENSILE							
ALUMINUM RIVET PLAIN FINISH	DOME HEAD	PAAD302	AD32ABS	AAPS-03-02	.094	.097/.100	.031-.125	.240	.188	.032	85	135							
		PAAD304	AD34ABS	AAPS-03-04	3/32	#41	.126-.250	.365											
		PAAD306	AD36ABS	AAPS-03-06			.251-.375	.490											
		PAAD401	AD41ABS	AAPS-04-01	.125	.129/.133	#30	.031-.062	.203	.250	.040	155	235						
		PAAD402	AD42ABS	AAPS-04-02				.063-.125	.265										
		PAAD403	AD43ABS	AAPS-04-03				.126-.187	.328										
		PAAD404	AD44ABS	AAPS-04-04				.188-.250	.390										
		PAAD405	AD45ABS	AAPS-04-05				.251-.312	.453										
		PAAD406	AD46ABS	AAPS-04-06				.313-.375	.515										
		PAAD408	AD48ABS	AAPS-04-08				.376-.500	.640										
		PAAD410	AD410ABS	AAPS-04-10				.501-.625	.765										
		PAAD502	AD52ABS	AAPS-05-02	.156	.160/.164	#20	.063-.125	.290	.312	.047	225	350						
		PAAD503	AD53ABS	AAPS-05-03				.126-.187	.353										
		PAAD504	AD54ABS	AAPS-05-04				.188-.250	.415										
		PAAD506	AD56ABS	AAPS-05-06				.251-.375	.540										
	PAAD508	AD58ABS	AAPS-05-08	.376-.500				.665											
	PAAD510	AD510ABS	AAPS-05-10	.501-.625				.770											
	PAAD602	AD62ABS	AAPS-06-02	.187	.192/.196	#11	.063-.125	.315	.375	.055	315	500							
	PAAD604	AD64ABS	AAPS-06-04				.126-.250	.440											
	PAAD606	AD66ABS	AAPS-06-06				.251-.375	.565											
	PAAD608	AD68ABS	AAPS-06-08				.376-.500	.690											
	PAAD610	AD610ABS	AAPS-06-10				.501-.625	.815											
	PAAD612	AD612ABS	AAPS-06-12				.626-.750	.940											
	PAAD614	AD614ABS	AAPS-06-14				.751-.875	1.065											
	PAAD616	AD616ABS	AAPS-06-16				.876-1.000	1.190											
	PAAD802	AD82ABS	AAPS-08-02				.250	.257/.261					F	.062-.150	.350	.500	.073	600	750
	PAAD804	AD84ABS	AAPS-08-04											.063-.250	.490				
	PAAD806	AD86ABS	AAPS-08-06	.251-.375	.615														
	PAAD808	AD88ABS	AAPS-08-08	.376-.500	.740														
	PAAD810	AD810ABS	AAPS-08-10	.501-.625	.865														
PAAD812	AD812ABS	AAPS-08-12	.626-.750	.990															
PAAD814	AD814ABS	AAPS-08-14	.751-.875	1.120															
PAAD816	AD816ABS	AAPS-08-16	.876-1.000	1.245															
PAAL402	AD42ABSLF	AALS-04-02	.125	.129/.133	#30	.031-.125			.265	.375	.045	155		235					
PAAL403	AD43ABSLF	AALS-04-03				.126-.187			.313										
PAAL404	AD44ABSLF	AALS-04-04				.126-.250	.390												
PAAL406	AD46ABSLF	AALS-04-06				.251-.375	.515												
PAAL504	AD54ABSLF	AALS-05-04	.156	.160/.164	#20	.126-.250	.415	.468	.075	225	350								
PAAL506	AD56ABSLF	AALS-05-06				.251-.375	.540												
PAAL508	AD58ABSLF	AALS-05-08				.376-.500	.675												
PAAL604	AD64ABSLF	AALS-06-04	.187	.192/.196	#11	.063-.250	.450	.625	.092	315	500								
PAAL606	AD66ABSLF	AALS-06-06				.251-.375	.565												
PAAL608	AD68ABSLF	AALS-06-08				.376-.500	.690												
PAAL610	AD610ABSLF	AALS-06-10				.501-.625	.815												
PAAL612	AD612ABSLF	AALS-06-12				.626-.750	.940												
PAAL616	AD616ABSLF	AALS-06-16				.876-1.000	1.175												
PAAL618	AD618ABSLF	AALS-06-18				1.00-1.125	1.325												
PAAK302		AACS-03-02				.094	.097/.100					#41	.031-.125	.250	.188	.032	85	135	
PAAK304		AACS-03-04											.126-.250	.375					
PAAK402	AK42ABS	AACS-04-02	.125	.129/.133	#30	.063-.125	.265	.220	.035	155	235								
PAAK403	AK43ABS	AACS-04-03				.126-.187	.328												
PAAK404	AK44ABS	AACS-04-04				.188-.250	.390												
PAAK405	AK45ABS	AACS-04-05				.251-.312	.453												
PAAK406	AK46ABS	AACS-04-06				.313-.375	.515												
PAAK408	AK48ABS	AACS-04-08				.376-.500	.640												
PAAK410	AK410ABS	AACS-04-10				.501-.625	.765												
PAAK502	AK52ABS	AACS-05-02				.156	.160/.164					#20	.063-.125	.290	.281	.040	225	350	
PAAK504	AK54ABS	AACS-05-04	.126-.250	.415															
PAAK506	AK56ABS	AACS-05-06	.251-.375	.540															
PAAK604	AK64ABS	AACS-06-04	.187	.192/.196	#11	.125-.250	.425	.375	.075	315	500								
PAAK608	AK68ABS	AACS-06-08				.376-.500	.690												
PAAK616	AK616ABS	AACS-06-16				.876-1.000	1.190												
PAAK804	AK84ABS	AACS-08-04				.250	.257/.261					F	.063-.250	.490	.468	.073	600	750	



ALUMINUM
MANDREL

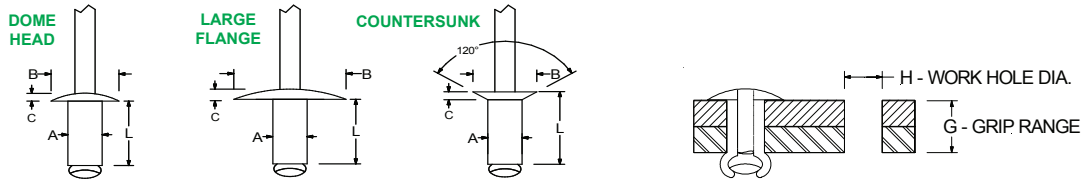
OTHER COLORS
AND FINISHES AVAILABLE

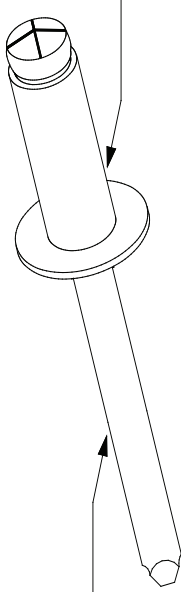
NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

See pages C43-C46 for
 installation tools



BLIND RIVETS

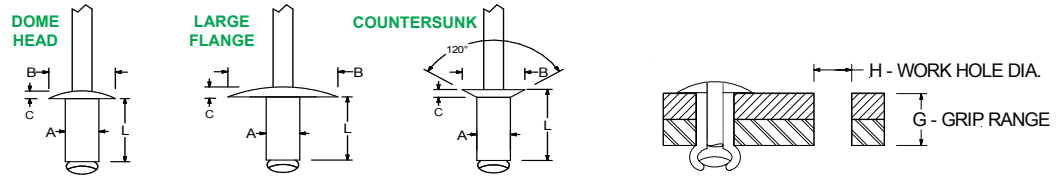


RIVET MATERIAL MANDREL FINISH	HEAD STYLE	PART NUMBER	POP®	Avdel®	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)		
											SHEAR	TENSILE	
STEEL RIVET ZINC FINISH  STEEL MANDREL	DOME HEAD	PSSD302	SD32BS	SSPS-03-02	.094	.097/.100	.031-.125	.240	.188	.032	150	205	
		PSSD304	SD34BS	SSPS-03-04	3/32	#41	.126-.250	.365					
		PSSD306			.118	.122/.126	.078-.118	.236				247	270
		PSSD308			1/8		.188-.197	.315		.242	.047		
		PSSD312					.275-.354	.472					
		PSSD401	SD41BS	SSPS-04-01			.031-.062	.203					
		PSSD402	SD42BS	SSPS-04-02			.063-.125	.265					
		PSSD403	SD43BS	SSPS-04-03			.126-.187	.328					
		PSSD404	SD44BS	SSPS-04-04			.188-.250	.390					
		PSSD405	SD45BS	SSPS-04-05		.125	.129/.133	.251-.312	.453	.250	.040	295	425
		PSSD406	SD46BS	SSPS-04-06		1/8	#30	.313-.375	.515				
		PSSD408	SD48BS	SSPS-04-08			.376-.500	.640					
		PSSD410	SD410BS	SSPS-04-10			.501-.625	.775					
		PSSD412	SD412BS	SSPS-04-12			.626-.750	.900					
		PSSD502	SD52BS	SSPS-05-02			.063-.125	.290					
		PSSD503	SD53BS	SSPS-05-03			.126-.187	.353					
		PSSD504	SD54BS	SSPS-05-04		.156	.160/.164	.188-.250	.415	.312	.047	410	570
		PSSD506	SD56BS	SSPS-05-06		5/32	#20	.251-.375	.540				
	PSSD508	SD58BS	SSPS-05-08			.376-.500	.665						
	PSSD510	SD510BS	SSPS-05-10			.501-.625	.770						
	PSSD512	SD512BS	SSPS-05-12			.626-.750	.925						
	PSSD602	SD62BS	SSPS-06-02			.063-.125	.315						
	PSSD604	SD64BS	SSPS-06-04			.126-.250	.440						
	PSSD606	SD66BS	SSPS-06-06			.251-.375	.565						
	PSSD608	SD68BS	SSPS-06-08		.187	.192/.196	.376-.500	.690	.375	.055	590	815	
	PSSD610	SD610BS	SSPS-06-10		3/16	#11	.501-.625	.815					
	PSSD612	SD612BS	SSPS-06-12			.626-.750	.940						
	PSSD614	SD614BS	SSPS-06-14			.751-.875	1.075						
	PSSD616	SD616BS	SSPS-06-16			.876-1.000	1.190						
	PSSD803	SD83BS	SSPS-08-03			.063-.187	.428						
	PSSD804	SD84BS	SSPS-08-04			.063-.250	.490						
	PSSD806	SD86BS	SSPS-08-06			.251-.375	.615						
	PSSD808	SD88BS	SSPS-08-08		.250	.257/.261	.376-.500	.740	.500	.073	1245	1505	
	PSSD810	SD810BS	SSPS-08-10		1/4	F	.501-.625	.865					
	PSSD812	SD812BS	SSPS-08-12			.626-.750	.990						
	PSSD814	SD814BS	SSPS-08-14			.751-.875	1.120						
PSSD816	SD816BS	SSPS-08-16			.876-1.000	1.240							
PSSL402	SD42BSLF	SSLS-04-02			.063-.125	.265							
PSSL403	SD43BSLF	SSLS-04-03			.126-.187	.328							
PSSL404	SD44BSLF	SSLS-04-04		.125	.129/.133	.188-.250	.390	.375	.065	295	425		
PSSL406	SD46BSLF	SSLS-04-06		1/8	#30	.251-.375	.515						
PSSL408	SD48BSLF	SSLS-04-08			.376-.500	.640							
PSSL503	SD53BSLF	SSLS-05-03			.126-.187	.353							
PSSL504	SD54BSLF	SSLS-05-04		.156	.160/.164	.188-.250	.415	.468	.075	410	570		
PSSL506	SD56BSLF	SSLS-05-06		5/32	#20	.251-.375	.540						
PSSL602	SD62BSLF	SSLS-06-02			.063-.125	.300							
PSSL604	SD64BSLF	SSLS-06-04			.063-.250	.440							
PSSL606	SD66BSLF	SSLS-06-06		.187	.192/.196	.251-.375	.565	.625	.092	590	815		
PSSL608	SD68BSLF	SSLS-06-08		3/16	#11	.376-.500	.690						
PSSL610	SD610BSLF	SSLS-06-10			.501-.625	.815							
PSSL612	SD612BSLF	SSLS-06-12			.626-.750	.940							
PSSL806	SD86BSLF	SSLS-08-06			.251-.375	.625							
PSSL808	SD88BSLF	SSLS-08-08		.250	.257/.261	.376-.500	.750	.720	.107	1245	1505		
PSSL810	SD810BSLF	SSLS-08-10		1/4	F	.501-.625	.600						
PSSL812	SD812BSLF	SSLS-08-12			.625-.750	1.000							
PSSL814	SD814BSLF	SSLS-08-14			.751-.875	1.100							
PSSK302		SSCS-03-02			.094	.097/.100	.031-.125	.240	.188	.032	150	205	
PSSK304		SSCS-03-04			3/32	#41	.126-.250	.375					
PSSK306		SSCS-03-06					.251-.375	.500					
PSSK402	SK42BS	SSCS-04-02			.063-.125	.265							
PSSK403	SK43BS	SSCS-04-03			.126-.187	.328							
PSSK404	SK44BS	SSCS-04-04		.125	.129/.133	.188-.250	.390	.220	.030	295	425		
PSSK406	SK46BS	SSCS-04-06		1/8	#30	.251-.375	.515						
PSSK408	SK48BS	SSCS-04-08			.376-.500	.640							
PSSK504	SK54BS	SSCS-05-04			.188-.250	.425							
PSSK506	SK56BS	SSCS-05-06		.156	.160/.164	.251-.375	.550	.281	.045	410	570		
PSSK508	SK58BS	SSCS-05-08		5/32	#20	.376-.500	.650						
PSSK603	SK63BS	SSCS-06-03			.020-.187	.387							
PSSK604	SK64BS	SSCS-06-04		.187	.192/.196	.188-.250	.440	.355	.050	590	815		
PSSK608	SK68BS	SSCS-06-08		3/16	#11	.376-.500	.700	.348					

See pages C43-C46 for
installation tools



BLIND RIVETS



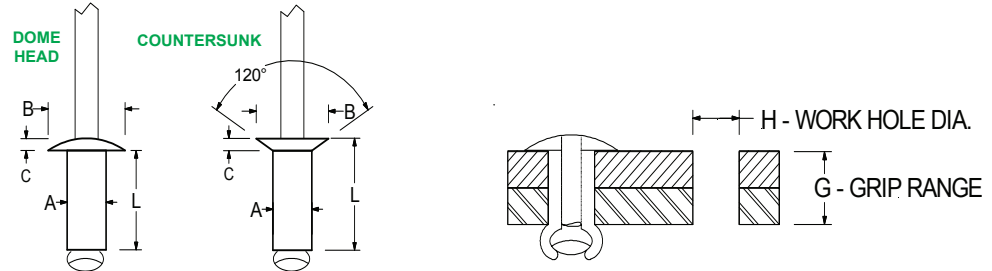
RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	POP®	Avdel®	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "C"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)	
											SHEAR	TENSILE
STAINLESS RIVET PLAIN FINISH STEEL MANDREL	DOME HEAD	PTSD302		CSPS-03-02	.094 3/32	.097/.100 #41	.031-.125	.250	.180	.032	230	320
		PTSD401	SSD41BS	CSPS-04-01	.125 1/8	.129/.133 #30	.031-.062 .063-.125 .126-.187 .188-.250 .251-.312 .313-.375 .376-.500	.203 .265 .328 .390 .453 .515 .640	.250	.040	550	700
		PTSD402	SSD42BS	CSPS-04-02								
		PTSD403	SSD43BS	CSPS-04-03								
		PTSD404	SSD44BS	CSPS-04-04								
		PTSD405	SSD45BS	CSPS-04-05								
		PTSD406	SSD46BS	CSPS-04-06								
		PTSD408	SSD48BS	CSPS-04-08								
		PTSD502	SSD52BS	CSPS-05-02	.156 5/32	.160/.164 #20	.063-.125 .126-.250 .251-.375	.290 .415 .540	.312	.047	900	1130
		PTSD504	SSD54BS	CSPS-05-04								
		PTSD506	SSD56BS	CSPS-05-06								
		PTSD602	SSD62BS	CSPS-06-02	.187 3/16	.192/.196 #11	.063-.125 .126-.250 .251-.375 .376-.500 .501-.625 .626-.750	.315 .440 .565 .690 .815 .950	.375	.055	1000	1375
	PTSD604	SSD64BS	CSPS-06-04									
	PTSD606	SSD66BS	CSPS-06-06									
	PTSD608	SSD68BS	CSPS-06-08									
	PTSD610	SSD610BS	CSPS-06-10									
	PTSD612	SSD612BS	CSPS-06-12									
	PTSD804		CSPS-08-04	.250 1/4	.257/.261 F	.020-.250 .251-.375 .376-.500	.500 .625 .750	.500	.069	1400	1920	
PTSD810		CSPS-08-10										
PTSD812		CSPS-06-12										
LARGE FLANGE	PTSL402	SSD42BSLF	CCLS-04-02	.125 1/8	.129/.133 #30	.031-.125 .126-.187 .188-.250	.265 .328 .390	.375	.065	550	700	
	PTSL403	SSD43BSLF	CCLS-04-03									
	PTSL404	SSD44BSLF	CCLS-04-04									
	PTSL610	SSD610BSLF	CCLS-06-10	.187 3/16	.192/.196 #11	.501-.625 .626-.750	.815 .950	.625	.065	1000	1375	
	PTSL612	SSD612BSLF	CCLS-06-12									
	120° COUNTERSUNK	PTSK402	SSK42BS	CSCS-04-02	.125 1/8	.129/.133 #30	.063-.125 .126-.187	.265 .328	.226	.032	550	700
PTSK403		SSK43BS	CSCS-04-03									
PTSK604		SSK64BS	CSCS-06-04									
STAINLESS RIVET PLAIN FINISH STAINLESS MANDREL <small>OTHER COLORS AND FINISHES AVAILABLE</small>	DOME HEAD	PTTD302		CCPS-03-02	.094 3/32	.097/.100 #41	.020-.125 .126-.250	.250 .375	.188 .180	.024 .032	230	320
		PTTD304		CCPS-03-04	.125 1/8	.129/.133 #30	.031-.062 .063-.125 .126-.187 .188-.250 .251-.312 .313-.375 .376-.500	.203 .265 .328 .390 .453 .515 .640	.250	.040	550	700
		PTTD401	SSD41SSBS	CCPS-04-01								
		PTTD402	SSD42SSBS	CCPS-04-02								
		PTTD403	SSD43SSBS	CCPS-04-03								
		PTTD404	SSD44SSBS	CCPS-04-04								
		PTTD405	SSD45SSBS	CCPS-04-05								
		PTTD406	SSD46SSBS	CCPS-04-06								
		PTTD408	SSD48SSBS	CCPS-04-08								
		PTTD412 (316 STAINLESS)			.157 5/32	.160/.164 #20	.063-.125 .126-.187 .188-.250 .251-.375	.290 .353 .415 .540	.256	.059	899	1011
		PTTD502	SSD52SSBS	CCPS-05-02								
		PTTD503	SSD53SSBS	CCPS-05-03								
	PTTD504	SSD54SSBS	CCPS-05-04	.156 5/32	.160/.164 #20	.063-.125 .126-.187 .188-.250 .251-.375	.290 .353 .415 .540	.312	.047	900	1130	
	PTTD506	SSD56SSBS	CCPS-05-06									
	PTTD602	SSD62SSBS	CCPS-06-02									
	PTTD604	SSD64SSBS	CCPS-06-04	.187 3/16	.192/.196 #11	.063-.125 .126-.250 .251-.375 .376-.500 .501-.625 .626-.750 .751-1.00	.315 .440 .565 .690 .815 .950 1.190	.375	.055	1000	1375	
	PTTD606	SSD66SSBS	CCPS-06-06									
	PTTD608	SSD68SSBS	CCPS-06-08									
	PTTD610	SSD610SSBS	CCPS-06-10									
	PTTD612	SSD612SSBS	CCPS-06-12									
	PTTD616	SSD616SSBS	CCPS-06-16									
	PTTD804		CCPS-08-04	.250 1/4	.257/.261 F	.020-.250 .251-.375 .376-.500	.500 .625 .750	.500	.069	1400	1920	
	PTTD806		CCPS-08-06									
	PTTD808		CCPS-08-08									
LARGE FLANGE	PTTL402	SSD42SSBSLF	CCLS-04-02	.125 1/8	.129/.133 #30	.031-.125 .126-.187 .188-.250	.265 .328 .390	.375	.065	550	700	
	PTTL403	SSD43SSBSLF	CCLS-04-03									
	PTTL404	SSD44SSBSLF	CCLS-04-04									
	PTTL506	SSD56SSBSLF	CCLS-05-06	.156 5/32	.160-.164 #20	.251-.375	.525	.468	.083	900	1130	
	PTTL604		CCLS-06-04									
	PTTL606		CCLS-06-06	.187 3/16	.192/.196 #11	.062-.250 .251-.375 .375-.500 .500-.625 .626-.750	.550 .575 .800 .815 .950	.615	.082	1150	1300	
PTTL608	SSD68SSBSLF	CCLS-06-08										
PTTL610	SSD610SSBSLF	CCLS-06-10										
PTTL612	SSD612SSBSLF	CCLS-06-12										
120° COUNTERSUNK	PTTK302		CCCS-03-02	.094 3/32	.094 3/32	.020-.125 .126-.250	.250 .375	.180	.028	230	280	
	PTTK304		CCCS-03-04									
	PTTK402	SSK42SSBS	CCCS-04-02									
	PTTK403	SSK43SSBS	CCCS-04-03	.125 1/8	.129/.133 #30	.031-.125 .126-.187 .188-.250	.275 .328 .400	.220	.032	550	700	
	PTTK404	SSK44SSBS	CCCS-04-04									
	PTTK604	SSK64SSBS	CCCS-06-04									
PTTK608	SSK68SSBS	CCCS-06-08	.187 3/16	.192/.196 #11	.126-.250 .376-.500	.425 .690	.348	.050	1000	1375		
PTTK608	SSK68SSBS	CCCS-06-08										

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

See pages C43-C46 for
 installation tools



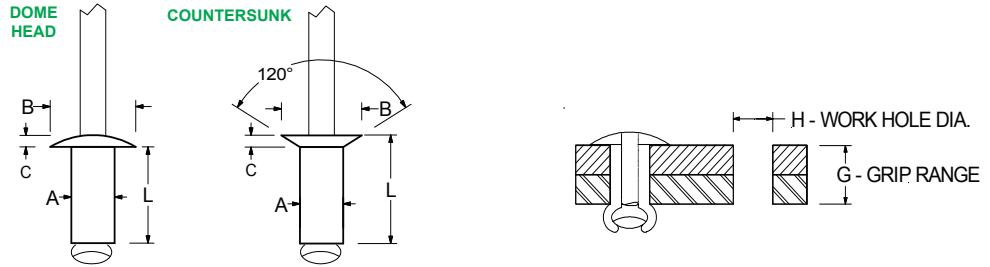
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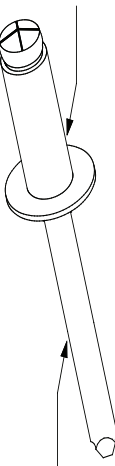


RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	POP®	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)			
										SHEAR	TENSILE		
MONEL RIVET ZINC FINISH	DOME HEAD	PMSD319	MD319BS	.109	.113/.117	.020-.070	.215	.192	.028	258	292		
		PMSD321	MD321BS	7/64	#33	.070-.090	.217						
		PMSD419	MD419BS	.125	.129/.133	.020-.070	.215	.246	.043	394	562		
		PMSD424	MD424BS	1/8	#30	.071-.120	.265						
		PMSD429	MD429BS			.121-.170	.315						
		PMSD435	MD435BS			.171-.230	.375						
		PMSD440	MD440BS			.231-.280	.425						
		PMSD524	MD524BS	.156	.161/.165	.000-.098	.242	.305	.053	675	900		
		PMSD530	MD530BS	5/32	#20	.101-.160	.325						
		PMSD537	MD537BS			.161-.230	.395						
		PMSD540	MD540BS			.231-.260	.425						
		PMSD545	MD545BS			.261-.310	.475						
		PMSD624	MD624BS	3/16	#11	.020-.090	.265	.020-.090	.265	.320			
		PMSD630	MD630BS			.091-.150	.325						
PMSD636	MD636BS	.151-.200	.385										
PMSD639	MD639BS	.201-.230	.415										
PMSD650	MD650BS	.231-.340	.525					.055	742	844			
PMSD665	MD665BS	.341-.490	.675										
PMSD675	MD675BS	.491-.590	.775										
PMSD610	MD610BS	.501-.625	.820										
PMSD850	MD850BS	.250	.257/.261	.151-.300	.525	.427	.068	1215	1519				
PMSD870	MD870BS	1/4	F	.301-.500	.725								
STEEL MANDREL	120° COUNTERSUNK	PMSK319	MK319BS	.109	.113/.117	.051-.090	.238	.192	.038	258	292		
		PMSK321	MK321BS	7/64	#33	.091-.110	.258						
		PMSK419	MK419BS	.125	.129/.133	.020-.100	.246	.245	.050	394	562		
		PMSK424	MK424BS	1/8	#30	.101-.150	.296						
		PMSK429	MK429BS			.151-.200	.346						
		PMSK435	MK435BS			.201-.260	.406						
		PMSK440	MK440BS			.261-.310	.456						
		PMSK524	MK524BS	.156	.153/.159	.081-.130	.299	.304	.064	675	900		
		PMSK530	MK530BS	5/32	#20	.131-.190	.359						
		PMSK537	MK537BS			.191-.260	.429						
		PMSK540	MK540BS			.261-.290	.459						
		PMSK545	MK545BS			.291-.340	.489						
		PMSK624	MK624BS	3/16	#11	.050-.120	.305	.050-.120	.305	.320	.055	742	844
		PMSK630	MK630BS			.121-.180	.365						
PMSK636	MK636BS	.181-.230	.425										
PMSK639	MK639BS	.231-.260	.485										
PMSK650	MK650BS	.261-.370	.565										
PMSK665	MK665BS	.371-.520	.715										
PMSK675	MK675BS	.521-.620	.815										
PMSK850	MK850BS	.250	.257/.261			.000-.297	.500	.425	.069	1215	1519		
PMSK870	MK870BS	1/4	F	.297-.496	.703								



BLIND RIVETS



RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	POP®	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)	
										SHEAR	TENSILE
MONEL RIVET ZINC FINISH  STAINLESS MANDREL	DOME HEAD	PMTD419	MD419SSBS	.125 1/8	.129/.133 #30	.000-.070 .070-.121 .121-.168 .168-.227 .227-.277	.195 .242 .293 .352 .402	.246	.043	394	562
		PMTD424	MD424SSBS								
		PMTD429	MD429SSBS								
		PMTD435	MD435SSBS								
		PMTD440	MD440SSBS								
		PMTD524	MD524SSBS	.156 5/32	.161/.165 #20	.000-.098 .098-.160 .160-.228 .228-.260 .260-.311	.242 .305 .375 .405 .453	.305	.053	675	900
		PMTD530	MD530SSBS								
		PMTD537	MD537SSBS								
	PMTD540	MD540SSBS									
	PMTD545	MD545SSBS									
	PMTD624	MD624SSBS	.187 3/16	.192/.196 #11	.000-.090 .090-.148 .148-.199 .199-.227 .227-.336 .336-.488 .488-.586	.242 .301 .363 .391 .500 .645 .742	.320	.055	742	843	
	PMTD630	MD630SSBS									
	PMTD636	MD636SSBS									
	PMTD639	MD639SSBS									
	PMTD650	MD650SSBS									
	PMTD665	MD665SSBS									
PMTD675	MD675SSBS										
120° COUNTERSUNK	PMTK419	MK419SSBS	.125 1/8	.129/.133 #30	.000-.098 .098-.148 .148-.199 .199-.259 .259-.309	.227 .273 .332 .391 .438	.236	.050	394	562	
	PMTK424	MK424SSBS									
	PMTK429	MK429SSBS									
	PMTK435	MK435SSBS									
	PMTK440	MK440SSBS									
	PMTK524	MK524SSBS	.156 5/32	.161/.165 #20	.000-.129 .129-.188 .188-.258 .258-.289 .289-.336	.281 .340 .410 .441 .488	.307	.064	675	900	
	PMTK530	MK530SSBS									
	PMTK537	MK537SSBS									
PMTK540	MK540SSBS										
PMTK545	MK545SSBS										
PMTK630	MK630SSBS	.187 3/16	.192/.196 #11	.000-.180 .180-.227 .227-.259 .259-.367 .367-.516 .516-.617	.383 .410 .430 .547 .703 .801	.315	.055	742	843		
PMTK636	MK636SSBS										
PMTK639	MK639SSBS										
PMTK650	MK650SSBS										
PMTK665	MK665SSBS										
PMTK675	MK675SSBS										

COPPER RIVET STEEL MANDREL	DOME HEAD	PCSD402 PCSD404 PCSD406	CD42BS CD44BS CD46BS	.125 1/8	.129/.133 #30	.063-.125 .126-.250 .251-.375	.265 .390 .515	.250	.040	215	300
COPPER RIVET BRASS MANDREL	DOME HEAD	PCBD402 PCBD404 PCBD406		.125 1/8	.129/.133 #30	.063-.125 .126-.250 .251-.375	.275 .400 .515	.250	.040	215	300

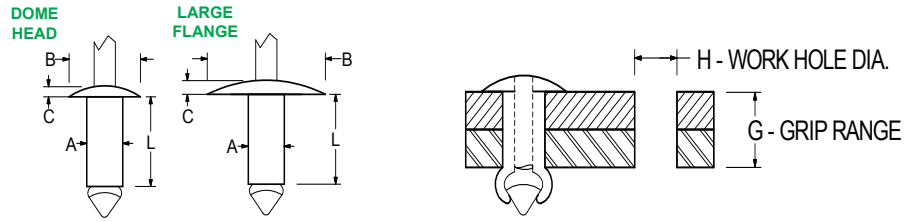
NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

See pages C43-C46 for
 installation tools



BLIND RIVETS

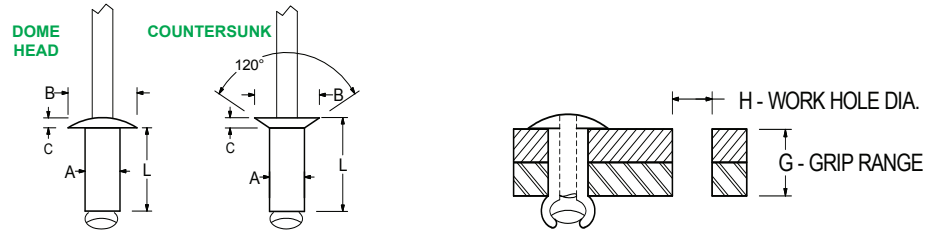
Hanson's Easy Entry Rivets have a pointed end on the tip of the mandrel to help the operator locate the hole in the assembly and insert the rivet quickly.



EASY ENTRY RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	POP®	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)	
										SHEAR	TENSILE
ALUMINUM RIVET STEEL MANDREL	DOME HEAD	PASD402E PASD403E PASD404E	EAD42BS EAD43BS EAD44BS	.125 1/8	.129/.133 #30	.063-.125 .126-.187 .188-.250	.265 .328 .390	.250	.040	210	325
		PASD504E	EAD54BS	.156 5/32	.160/.164 #20	.188-.250	.415	.312	.047	340	490
	LARGE FLANGE	PASL404E	EAD44BSLF	.125 1/8	.129/.133 #30	.188-.250	.390	.375	.065	210	325
STEEL RIVET STEEL MANDREL	DOME HEAD	PSSD402E PSSD403E PSSD404E	ESD42BS ESD43BS ESD44BS	.125 1/8	.129/.133 #30	.063-.125 .126-.187 .188-.250	.265 .328 .390	.250	.040	295	425
		PSSD604E PSSD606E	ESD64BS ESD66BS	.187 3/16	.192/.196 #11	.126-.250 .251-.375	.440 .565	.375	.055	590	815
	LARGE FLANGE	PSSL404E	ESD44BSLF	.125 1/8	.129/.133 #30	.188-.250	.390	.375	.040	295	425

Soft Set Rivets are made of a soft alloy aluminum to help reduce cracking and breakage of the parts being riveted when fastening plastics and brittle materials.



SOFT SET ALUMINUM RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	POP®	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)			
										SHEAR	TENSILE		
1100 ALLOY ALUMINUM RIVET PLAIN FINISH	DOME HEAD	PPAD25M3 PPAD25M4 PPAD25M5	PAD25M3ABS PAD25M4ABS PAD25M5ABS	.098 3/32	.100/.104 #41	.126-.189 .189-.252 .252-.315	.287 .350 .448	.166	.031	60	74		
		PPAD30M3 PPAD30M4 PPAD30M5	PAD30M3ABS PAD30M4ABS PAD30M5ABS	.118 1/8	.120/.124 #31	.126-.189 .189-.252 .252-.315	.315 .385 .456	.235	.043	69	94		
		PPAD401 PPAD402 PPAD403 PPAD404 PPAD405 PPAD406 PPAD408	PAD41ABS PAD42ABS PAD43ABS PAD44ABS PAD45ABS PAD46ABS PAD48ABS	.125 1/8	.129/.133 #30	.031-.062 .063-.125 .126-.187 .188-.250 .251-.312 .251-.375 .376-.500	.203 .265 .328 .390 .438 .515 .640	.250	.040	65	85		
		PPAD504 PPAD506	PAD54ABS PAD56ABS	.156 5/32	.160/.164 #20	.063-.250 .251-.375	.415 .540	.312	.047	105	145		
		PPAD604 PPAD606 PPAD608	PAD64ABS PAD66ABS PAD68ABS	.187 3/16	.192/.196 #11	.188-.250 .251-.375 .376-.500	.440 .565 .690	.375	.055	145	205		
		PPAK402 PPAK403 PPAK404	PAK42ABS PAK43ABS PAK44ABS	.125 1/8	.129/.133 #30	.063-.125 .126-.187 .188-.250	.265 .328 .390	.220	.030	65	85		
		PPAK506	PAK56ABS	.156 5/32	.160/.164 #20	.251-.375	.540	.281	.040	105	145		
			120° COUNTERSUNK										
		ALUMINUM MANDREL											

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Pacoima, CA 91331

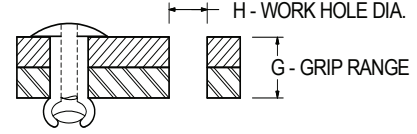
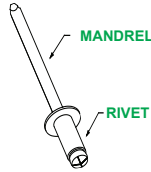
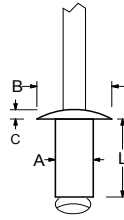
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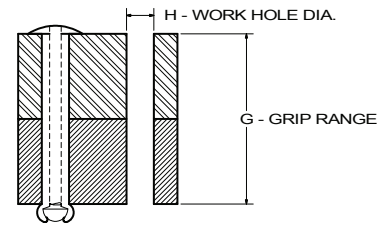
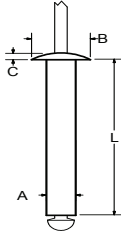


BLIND RIVETS & MUSHROOM PLUGS



MICRO RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	POP®	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)			
										SHEAR	TENSILE		
ALUMINUM RIVET STEEL MANDREL	DOME HEAD	PASD201	TAPD20M1BS	.078	.080/.084 #41	.000-.063	.161	.148	.029	66	87		
		PASD202	TAPD20M2BS									.039-.126	.224
		PASD203	TAPD20M3BS									.126-.189	.291
		PASD204	TAPD20M4BS									.189-.252	.354
		PASD205	TAPD20M5MS									.252-.315	.421

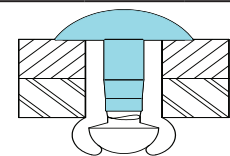
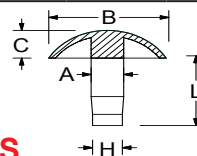
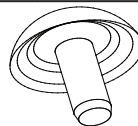


EXTRA LONG BLIND RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	SIZE	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)			
										SHEAR	TENSILE		
ALUMINUM RIVET PLAIN FINISH STEEL MANDREL	DOME HEAD	PASD318	3 x 18	.118 1/8	.122/.126	.512-.590	.740	.242	.047	160	200		
		PASD320	3 x 20									.591-.670	.819
		PASD325	3 x 25									.671-.866	1.016
		PASD330	3 x 30	.867-1.024	1.214								
		PASD418	4 x 18	.157 5/32	.160/.164 #20	.490-.570	.740	.296	.059	190	225		
		PASD420	4 x 20									.571-.650	.819
		PASD425	4 x 25									.651-.845	1.016
		PASD430	4 x 30									.846-1.025	1.214
		PASD435	4 x 35									1.026-1.180	1.411
		PASD440	4 x 40									1.181-1.380	1.608
		PASD535	5 x 35	.197 3/16	.200/.204 #7	.984-1.181	1.411	.355	.063	470	630		
		PASD540	5 x 40									1.182-1.378	1.608
		PASD545	5 x 45									1.379-1.575	1.805
		PASD550	5 x 50									1.576-1.770	2.002
		PASD555	5 x 55									1.771-1.890	2.199
PASD560	5 x 60	1.891-2.047	2.396										
PASD565	5 x 65	2.048-2.244	2.593										
PASD570	5 x 70	2.245-2.440	2.790										
PASD580	5 x 80	2.441-2.835	3.184										
STEEL RIVET STEEL MANDREL	DOME HEAD	PSSD535	5 x 35	.197 3/16	.200/.204 #7	1.00-1.187	1.411	.355	.063	765	900		
		PSSD540	5 x 40									1.188-1.375	1.608
		PSSD545	5 x 45									1.376-1.625	1.805
		PSSD550	5 x 50									1.626-1.750	2.002

NOTE: SOME SIZES MAY BE AVAILABLE IN OTHER MATERIALS INCLUDING: STEEL, 304 & 316 STAINLESS. PLEASE CALL FOR AVAILABILITY.

Mushroom Plugs are decorative caps that are to be pressed or driven into the hole in the head of an installed 3/16" body diameter POP® rivet. This gives the rivet a very clean look!



MUSHROOM PLUGS

MATERIAL	HEAD STYLE	PART NUMBER	POP®	THE RIVET THE MUSHROOM PLUG IS DESIGNED TO BE USED WITH:	BODY DIAMETER "A"	TIP OF SHANK DIAMETER "H"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"
ALUMINUM	DOME HEAD	PMPA6	MPA-6	3/16" DRAWN STEEL RIVETS	.127	.116	.350	.432	.125
		PMPA6-1	MPA-6-1	3/16" EXTRUDED ALUMINUM RIVETS	.119	.108	.350	.432	.125

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

HANSON RIVET & SUPPLY CO.

13241 Weidner Street
Pacoima, CA 91331

See pages C43-C46 for installation tools

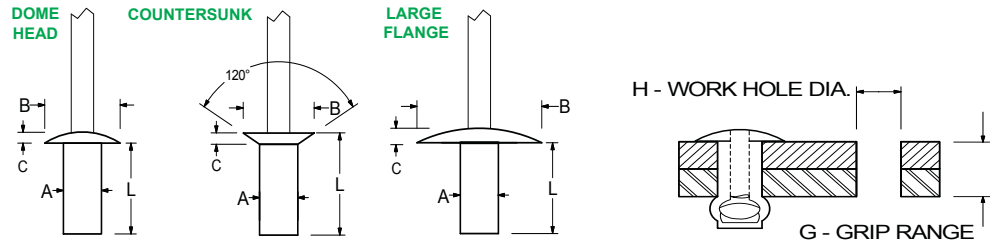
Phone: 818-485-0500
FAX: 818-485-0540

Outside CA: 1-800-RRRIVET
www.hansonrivet.com

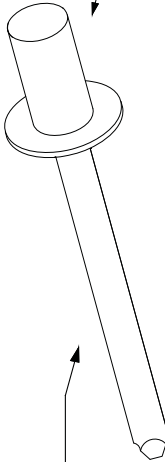


CLOSED-END BLIND RIVETS

Hanson's Closed-End rivets prevent the passage of vapor or liquid through the set rivet. They also provide 100% mandrel retention. This means the head of the mandrel that breaks off stays in the set rivet. This assures that it won't fall into your assembly and rattle around or short out electronics!



CLOSED-END SELF SEALING RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	POP®	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)							
										SHEAR	TENSILE						
ALUMINUM RIVET PLAIN FINISH  STEEL MANDREL <small>OTHER COLORS AND FINISHES AVAILABLE</small>	DOME HEAD	PASD401H	AD41H	.125 1/8	.129/.133 #30	.032-.062	.252	.236	.051	305	385						
		PASD402H	AD42H														
		PASD403H	AD43H														
		PASD404H	AD44H														
		PASD405H	AD45H														
		PASD406H	AD46H														
		PASD408H	AD48H														
		PASD502H	AD52H														
		PASD503H	AD53H														
		PASD504H	AD54H														
	PASD505H	AD55H															
	PASD602H	AD62H	.187 3/16	.192/.196 #11	.063-.125	.345	.375	.081	575	840							
	PASD603H	AD63H															
	PASD604H	AD64H															
	PASD605H	AD65H															
	PASD606H	AD66H															
	PASD608H	AD68H															
	PASD610H	AD610H															
	PASD804H	AD84H															
	PASD806H	AD86H															
	PASL401H	AD402SBMLF8									.125 1/8	.129/.133 #30	.000-.063	.262	.315	.047	305
	PASL402H	AD404SBMLF8															
	PASL403H	AD406SBMLF8															
	PASL502H	AD504SBMLF10															
PASL503H	AD506SBMLF10																
PASL504H	AD508SBMLF10																
PASL505H	AD510SBMLF10																
PASL602H	AD604SBMLF11	.187 3/16	.192/.196 #11	.000-.125	.348	.433	.076	575	840								
PASL603H	AD606SBMLF11																
PASL604H	AD608SBMLF11																
PASL605H	AD610SBMLF11																
PASL606H	AD612SBMLF11																
PASK400H	AK40H									.125 1/8	.129/.133 #30	.040 MAX	.210	.233	.051	305	385
PASK401H	AK41H																
PASK402H	AK42H																
PASK403H	AK43H																
PASK404H	AK44H																
PASK405H	AK45H																
PASK406H	AK46H																
PASK501H	AK51H	.156 5/32	.160/.164 #20	.032-.062	.327	.312	.066	430	605								
PASK502H	AK52H																
PASK503H	AK53H																
PASK504H	AK54H																
PASK505H	AK55H																
PASK506H	AK56H																
PASK602H	AK62H									.187 3/16	.192/.196 #11	.062-.125	.415	.375	.075	500	690
PASK604H	AK64H																
PASK606H	AK66H																
PASK606H	AK66H																

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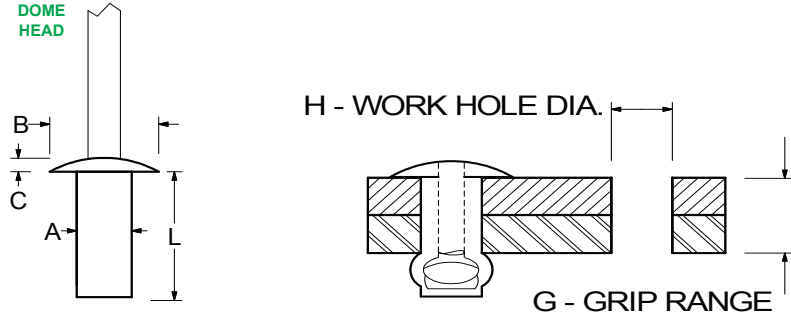
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CLOSED-END BLIND RIVETS

Hanson's Closed-End rivets prevent the passage of vapor or liquid through the set rivet. They also provide 100% mandrel retention. This means the head of the mandrel that breaks off stays in the set rivet. This assures that it won't fall into your assembly and rattle around or short out electronics!



CLOSED-END SELF SEALING RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	POP®	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)							
										SHEAR	TENSILE						
ALUMINUM RIVET ALUMINUM MANDREL	DOME HEAD	PAAD401AH	AD41AH	.125 1/8	.129/.133 #30	.032-.062	.252 .316	.236	.051	105	150						
		PAAD402AH	AD42AH														
		PAAD403AH	AD43AH														
		PAAD404AH	AD44AH														
		PAAD504AH	AD54AH	.156 5/32	.160/.164 #20	.063-.250 .251-.312	.455 .517	.312	.066	150	240						
		PAAD505AH	AD55AH														
PAAD602AH	AD62AH	.187 3/16	.192/.196 #11	.063-.125 .126-.250 .251-.375 .376-.500	.345 .470 .595 .720	.375	.081	220	310								
PAAD604AH	AD64AH																
PAAD606AH	AD66AH																
PAAD608AH	AD68AH																
ALUMINUM RIVET STAINLESS MANDREL	DOME HEAD	PATD604H	AD64SSH	.187 3/16	.192/.196 #11	.126-.250 .251-.375 .376-.500	.470 .595 .705	.375	.081	575	840						
PATD606H	AD66SSH																
PATD608H	AD68SSH																
STAINLESS RIVET STAINLESS MANDREL	DOME HEAD	PTTD401H	SSD41SSH	.125 1/8	.129/.133 #30	.000-.063	.258 .313	.260	.029	495	495						
		PTTD402H	SSD42SSH														
		PTTD403H	SSD43SSH														
		PTTD404H	SSD44SSH														
		PTTD405H	SSD45SSH	.156 5/32	.160/.164 #20	.125-.187 .188-.250 .250-.309	.338 .392 .461 .523	.323	.037	787	899						
		PTTD502H	SSD52SSH														
		PTTD503H	SSD53SSH														
		PTTD504H	SSD54SSH														
		PTTD505H	SSD55SSH	.187 3/16	.192/.196 #11	.000-.125 .125-.188 .188-.250 .250-.371 .371-.496	.359 .422 .488 .605 .723	.388	.039	967	989						
		PTTD602H	SSD62SSH														
		PTTD603H	SSD63SSH														
		PTTD604H	SSD64SSH														
PTTD606H	SSD66SSH	.250 1/4	.257/.261 F	.000-.250 .250-.371 .371-.496	.555 .613 .801	.500	.099	1528	1955								
PTTD608H	SSD68SSH																
PTTD804H	SSD84SSH																
PTTD805H	SSD85SSH																
PTTD808H	SSD88SSH	.125 1/8	.129/.133 #30	.062-.187	.382	.250	.039	259	270								
PSSD403H	SD46SB																
PSSD503H	SD56SB									.156 5/32	.160/.164 #20	.062-.187	.401	.312	.047	389	418
PSSD602H	SD64SB																
PSSD604H	SD68SB	.187 3/16	.192/.196 #11	.000-.125 .126-.250	.362 .488	.375	.051	545	638								
COPPER RIVET STEEL MANDREL	DOME HEAD	PCSD403H	CD43H	.125 1/8	.129/.133 #30	.063-.187 .188-.250 .251-.312	.362 .425 .487	.236	.051	270	337						
		PCSD404H	CD44H														
		PCSD405H	CD45H														

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

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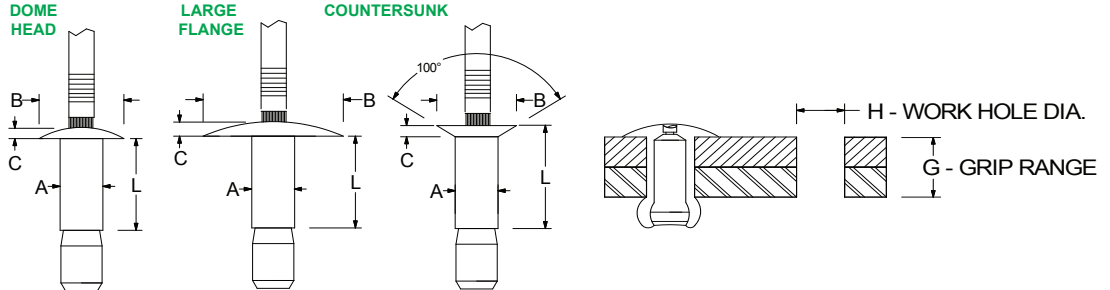
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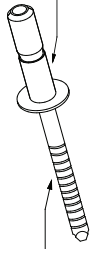
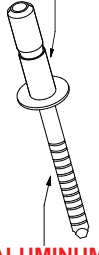

STRUCTURAL BLIND RIVETS

Hanson's Ultra-Grip rivets offer high strength, wide grip range, and excellent clamp-up force.

This system provides a mechanical lock that delivers 100% mandrel retention. The mandrel also fills the body of the rivet to give greater shear strength.



POP® ULTRA-GRIP™ HIGH STRENGTH RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	POP®	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	LENGTH TO END OF MANDREL "E"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)		
											SHEAR	TENSILE	
STEEL RIVET ZINC FINISH  STEEL MANDREL	DOME HEAD	PSSD6270U	SD6270UG	.183	.191-.200	.062-.270	.415	.675	.385	.085	1400	1100	
		PSSD6437U	SD6437UG	3/16	.191-.200	.214-.437	.572	.825					
		PSSD6437UX	SD6437UGX			.062-.437	.572	.950					
		PSSD8375U	SD8375UG	.253	.261-.272	.080-.375	.560	.970	.525	.117	2500	2150	
		PSSD8625U	SD8625UG	1/4	.261-.272	.350-.625	.810	1.220					
		PSSD8625UX	SD8625UGX			.080-.625	.810	1.405					
	LARGE FLANGE	PSSL6270U	SD6270UGLF	.183	.191-.200	.062-.270	.415	.675	.500	.085	1400	1100	
		PSSL6437U	SD6437UGLF	3/16	.191-.200	.214-.437	.572	.825					
		PSSL6437UX	SD6437UGLFX			.062-.437	.572	.950					
		PSSL8375U	SD8375UGLF	.253	.261-.272	.080-.375	.560	.970	.587	.117	2500	2150	
		PSSL8625U	SD8625UGLF	1/4	.261-.272	.350-.625	.810	1.220					
		PSSL8625UX	SD8625UGLFX			.080-.625	.810	1.405					
100° COUNTERSUNK	PSSK6331U	SK6331UG	.183	.191-.200	.125-.331	.486	.762	.345	.070	1400	1100		
	PSSK6500U	SK6500UG	3/16	.191-.200	.305-.500	.653	.929						
	PSSK8475U	SK8475UG	.253	.261-.272	.160-.475	.660	1.059	.405	.079	2500	2150		
	PSSK8725U	SK8725UG	1/4	.261-.272	.415-.725	.910	1.309						
ALUMINUM RIVET PLAIN FINISH  ALUMINUM MANDREL	DOME HEAD	PAAD6270U	AD6270UG	.183	.191-.200	.062-.270	.415	.675	.385	.085	700	500	
		PAAD6437U	AD6437UG	3/16	.191-.200	.214-.437	.572	.825					
		PAAD6437UX	AD6437UGX			.062-.437	.572	.950					
		PAAD8375U	AD8375UG	.253	.261-.272	.080-.375	.560	.970	.525	.117	1300	890	
		PAAD8625U	AD8625UG	1/4	.261-.272	.350-.625	.810	1.220					
		PAAD8625UX	AD8625UGX			.080-.625	.810	1.405					
	LARGE FLANGE	PAAL6270U	AD6270UGLF	.183	.191-.200	.062-.270	.415	.675	.500	.085	700	500	
		PAAL6437U	AD6437UGLF	3/16	.191-.200	.214-.437	.572	.825					
		PAAL6437UX	AD6437UGLFX			.062-.437	.572	.950					
		PAAL8375U	AD8375UGLF	.253	.261-.272	.080-.375	.560	.970	.587	.117	1300	890	
		PAAL8625U	AD8625UGLF	1/4	.261-.272	.350-.625	.810	1.220					
		PAAL8625UX	AD8625UGLFX			.080-.625	.810	1.405					
100° COUNTERSUNK	PAAK6331U	AK6331UG	.183	.191-.200	.125-.331	.486	.762	.345	.070	700	500		
	PAAK6500U	AK6500UG	3/16	.191-.200	.305-.500	.653	.929						
	PAAK8475U	AK8475UG	.253	.261-.272	.160-.475	.660	1.059	.405	.079	1300	890		
	PAAK8725U	AK8725UG	1/4	.261-.272	.415-.725	.910	1.309						
STAINLESS RIVET PLAIN FINISH  STAINLESS MANDREL	DOME HEAD	PTTD6270U	SSD6270UG	.183	.191-.200	.062-.270	.415	.675	.385	.085	1400	1000	
		PTTD8375U	SSD8375UG	3/16	.191-.200	.080-.375	.560	.970					
		PTTD8625U	SSD8625UG	.253	.261-.272	.350-.625	.810	1.245	.525	.117	2500	2000	
		PTTD8625UX	SSD8625UGX	1/4	.261-.272	.080-.625	.810	1.434					
	100° COUNTERSUNK	PTTK6331U	SSK6331UG	.183	.191-.200	.125-.331	.486	.762	.345	.070	1400	1000	
		PTTK8475U	SSK8475UG	3/16	.191-.200	.160-.475	.660	1.059	.405	.079	2500	2000	

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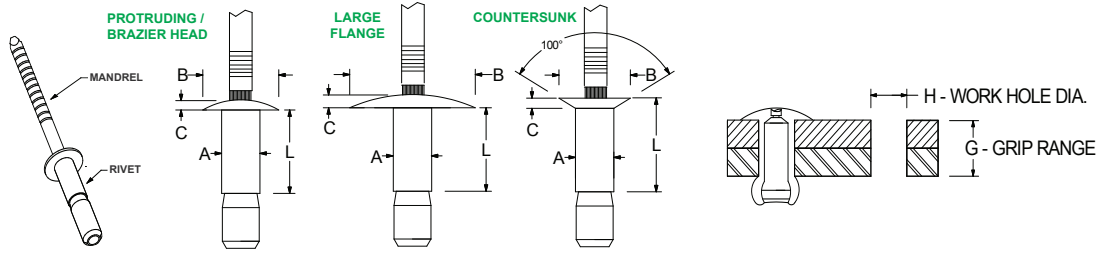
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STRUCTURAL BLIND RIVETS

Structural Blind rivets offer high strength, wide grip range, and excellent clamp-up force.

This system provides a mechanical lock that delivers 100% mandrel retention. The mandrel also fills the body of the rivet to give greater shear strength.



MONOBOLT® HIGH STRENGTH RIVETS

A SPECIAL NOSEPIECE IS REQUIRED FOR INSTALLATION OF THESE RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	Avdel® PART NUMBER	Avdel® ITEM NUMBER	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)	
										SHEAR	TENSILE
ALUMINUM RIVET ALUMINUM MANDREL	PROTRUDING HEAD	BAPV-06-04 BAPV-C06-07	2774-0613 2774-0617	.184/.193	.194/.204	.062-.250 .064-.437	.416 .577	.355/.400	.090	550	450
		BAPV-08-06 BAPV-E08-10	2774-0817 2774-0824	.254/.260	.261/.276	.080-.375 .350-.625	.556 .806	.480/.530	.117	1270	830
	BRAZIER	BABV-08-06	N/A	.254/.260	.261/.276	.080-.375	.556	.454/.484	.094	1270	830
STEEL RIVET STEEL MANDREL	PROTRUDING HEAD	SSPV-06-04 SSPI-E06-07	2771-0613 2771-0617	.184/.193	.194/.204	.062-.250 .064-.437	.416 .577	.355/.400	.090	1300	1000
		SSPV-08-06 SSPV-E08-10	2771-0817 2771-0824	.254/.260	.261/.276	.080-.375 .350-.625	.556 .806	.480/.530	.117	2400	1850
		SSLVA-06-04 SSLVA-E06-07	2794-0613 2794-0617	.184/.193	.194/.204	.062-.250 .064-.437	.416 .577	.500/.530	.105	1300	1300
	100° COUNTERSUNK	SSCV-06-06	N/A	.184/.193	.194/.204	.125-.331	.486	.325/.360	.070	1300	1300
		SSCV-08-08	N/A	.254/.260	.261/.276	.125-.475	.660	.395/.448	.079	2400	1850
STAINLESS RIVET STAINLESS MANDREL	PROTRUDING HEAD	CCPV-06-04 CCPV-E06-07	2711-0613 2711-0617	.184/.193	.194/.204	.062-.250 .064-.437	.416 .577	.355/.400	.090	1300	1000
		CCPV-08-06 CCPV-E08-10	2711-0817 2711-0824	.254/.260	.261/.276	.080-.375 .350-.625	.556 .806	.480/.530	.117	2400	1850

INTERLOCK® HIGH STRENGTH RIVETS

A STANDARD NOSEPIECE MAY BE USED FOR INSTALLATION OF THESE RIVETS

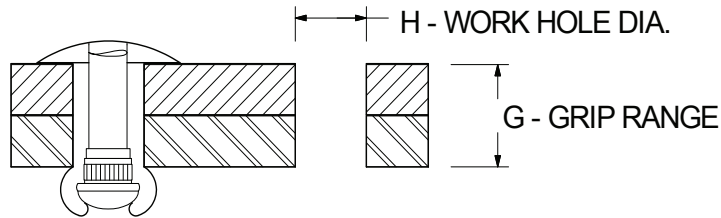
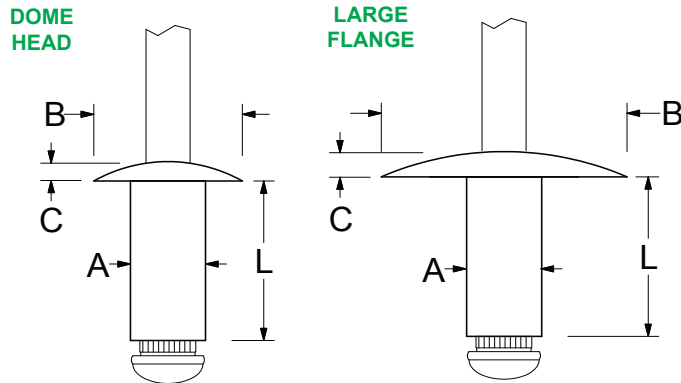
RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	Avdel® PART NUMBER	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)		
									SHEAR	TENSILE	
ALUMINUM RIVET ALUMINUM MANDREL	PROTRUDING HEAD	BAPI-06-04 BAPI-06-07 BAPI-E06-07 BAPI-06-10	.184/.193	.194/.204	.062-.250 .214-.437 .062-.437 .375-.625	.416 .577 .541 .731	.355/.400	.090	550	450	
		BAPI-08-06 BAPI-08-10 BAPI-E08-10	.254/.260	.261/.276	.080-.375 .350-.625 .080-.625	.556 .806 .806	.480/.530	.117	1270	830	
		LARGE FLANGE	BALI-06-04 BALI-06-07 BALI-E06-07 BALI-06-10	.184/.193	.194/.204	.062-.250 .214-.437 .062-.437 .375-.625	.416 .577 .541 .731	.500/.530	.105	550	450
			BALI-08-06 BALI-08-10 BALI-E08-10	.254/.260	.261/.276	.080-.375 .350-.625 .080-.625	.556 .806 .806	.735/.750	.117	1270	830
	STEEL RIVET STEEL MANDREL	PROTRUDING HEAD	SSPI-06-04 SSPI-06-07 SSPI-E06-07 SSPI-06-10	.184/.193	.194/.204	.062-.250 .214-.437 .062-.437 .375-.625	.416 .577 .541 .731	.355/.400	.090	1300	1000
			SSPI-08-06 SSPI-08-10 SSPI-E08-10	.254/.260	.261/.276	.080-.375 .350-.625 .080-.625	.556 .806 .806	.480/.530	.276	2400	1850
100° COUNTERSUNK			SSCI-06-06	.184/.193	.194/.204	.125-.331	.496	.326/.360	.070	1300	1000
			SSCI-08-08	.254/.260	.261/.276	.170-.475	.685	.395/.417	.079	2400	1850

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.



SELF-PLUGGING BLIND RIVETS

Self-Plugging rivets offer a liquid and water resistant joint. Also greater strength, vibration resistance, and 100% mandrel retention!



POP® SELF-PLUGGING RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE (SEE NOTE) "G"	BODY LENGTH (NOM.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)	
									SHEAR	TENSILE
	DOME HEAD	SD42SP-093 SD43SP-165 SD44SP-185 SD46SP-312	.121/.127 1/8	.129/.133	.063-.125 .150-.195 .185-.240 .312-.360	.250 .329 .391 .507	.250	.041	450	350
		SD55SP-218 SD56SP-241	.152/.158 5/32	.160/.164	.205-.260 .241-.368	.437 .562	.312	.050	525	500
		SD62SP-093 SD63SP-130 ESD64SP-187 SD64SP-220 SD68SP-437	.184/.190 3/16	.192/.196	.062-.125 .065-.187 .126-.250 .181-.272 .376-.500	.315 .378 .425 .440 .700	.375	.058	900	700
		SD82SP-093	.249/.255 1/4	.257/.261	.062-.125	.365	.500	.078	1750	1400
	LARGE FLANGE	SD52SP-093 SD54SP-129 SD56SP-129	.152/.158 5/32	.160/.164	.063-.125 .129-.256 .126-.343	.300 .417 .525	.468	.073	525	500
		SD68SP-225	.184/.190 3/16	.192/.196	.407-.467	.700	.625	.073	900	700
		SD64SP-187	.184/.190 3/16	.192/.196	.187-.235	.442	.625	.073	900	700
		SD64SP-187 SD65SP-225 SD66SP-210 SD66SP-225	.184/.190 3/16	.192/.196	.157-.217 .210-.327 .188-.384 .210-.375	.450 .575 .566 .566	.650	.091	900	700

NOTE: Part Number suffix is the work thickness that the mandrel will break flush with the head. (For example part number SD42SP-093 - .093 is the optimum work thickness)

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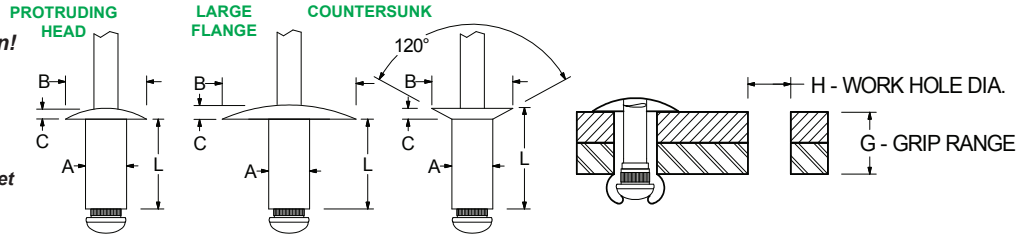
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www.hansonrivet.com



"Q" STYLE BLIND RIVETS

Q Rivets offer greater shear strength and 100% mandrel retention! The mandrel is designed to effect a weather-tight seal when installed properly and provide good vibration resistance.

*NOTE: Mandrels break flush with the rivet head when in the Mid-Grip Range (except -04-01's which break at .062)



RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	Avdel®	BODY DIAMETER (NOM.) "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE (SEE NOTE ABOVE) "G"			BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)			
						MIN	MID*	MAX				SHEAR	TENSILE		
ALUMINUM RIVET	PROTRUDING HEAD	QASD401	BSPQ-04-01	.125 1/8	.129/.133 #30	.063	.093	.062	.212	.250	.042	350	325		
		QASD402	BSPQ-04-02			.126	.187	.125	.275						
		QASD403	BSPQ-04-03			.094	.125	.187	.337						
		QASD404	BSPQ-04-04			.126	.187	.250	.400						
		QASD405	BSPQ-04-05			.188	.250	.312	.462						
		QASD406	BSPQ-04-06			.251	.312	.375	.535						
		QASD407	BSPQ-04-07			.313	.375	.437	.602						
		QASD408	BSPQ-04-08			.376	.437	.500	.670						
		QASD502	BSPQ-05-02			.156	.160/.164 #20	.062	.093					.125	.300
		QASD504	BSPQ-05-04			.126		.187	.250					.425	
		QASD506	BSPQ-05-06			.251		.312	.375					.550	
		QASD508	BSPQ-05-08			.376		.437	.500					.675	
	QASD602	BSPQ-06-02	.187 3/16	.192/.196 #11	.062	.093	.125	.325							
	QASD604	BSPQ-06-04			.126	.187	.250	.450							
	QASD606	BSPQ-06-06			.251	.312	.375	.575							
	QASD608	BSPQ-06-08			.376	.437	.500	.700							
	QASD610	BSPQ-06-10			.501	.562	.625	.850							
	QASD612	BSPQ-06-12			.626	.687	.750	.980							
	QASD614	BSPQ-06-14	.751	.812	.875	1.110									
	QASD802	BSPQ-08-02	.250 1/4	.257/.261 F	.062	.093	.125	.375							
	QASD804	BSPQ-08-04			.126	.187	.250	.500							
	QASD806	BSPQ-08-06			.251	.312	.375	.625							
	QASD808	BSPQ-08-08			.376	.437	.500	.750							
	QASD810	BSPQ-08-10			.501	.562	.625	.900							
QASD812	BSPQ-08-12	.626			.687	.750	1.030								
QASD814	BSPQ-08-14	.751			.812	.875	1.160								
QASD816	BSPQ-08-16	.876			.937	1.000	1.290								
STEEL MANDREL	LARGE FLANGE	QASL402	BSLQ-04-02	.125 1/8	.129/.133 #30	.126	.187	.250	.275	.375	.065	350	325		
		QASL404	BSLQ-04-04			.251	.312	.375	.400						
		QASL406	BSLQ-04-06			.376	.437	.500	.535						
		QASL504	BSLQ-05-04			.156	.160/.164 #20	.126	.187					.250	.425
		QASL506	BSLQ-05-06			.251		.312	.375					.550	
		QASL508	BSLQ-05-08			.376		.437	.500					.675	
		QASL606	BSLQ-06-06			.251		.312	.375					.575	
		QASL608	BSLQ-06-08			.376	.437	.500	.700						
		QASL610	BSLQ-06-10			.501	.562	.625	.850						
		QASL612	BSLQ-06-12			.626	.687	.750	.980						
		QASL614	BSLQ-06-14			.751	.812	.875	1.110						
		QASL804	BSLQ-08-04			.250 1/4	.257/.261 F	.126	.187					.250	.500
	QASL806	BSLQ-08-06	.251	.312	.375			.625							
	QASL808	BSLQ-08-08	.376	.437	.500			.750							
	QASL810	BSLQ-08-10	.501	.562	.625			.900							
	QASL812	BSLQ-08-12	.626	.687	.750			1.030							
	QASL814	BSLQ-08-14	.751	.812	.875			1.160							
	QASL816	BSLQ-08-16	.876	.937	1.000			1.290							
	QASK403	BSCQ-04-03	.125 1/8	.129/.133 #30	.094			.125	.187	.337					
	QASK404	BSCQ-04-04			.126	.187	.250	.400							
	QASK405	BSCQ-04-05			.188	.250	.312	.462							
	QASK406	BSCQ-04-06			.251	.312	.375	.535							
	QASK407	BSCQ-04-07			.313	.375	.437	.602							
	QASK408	BSCQ-04-08			.376	.437	.500	.670							
QASK504	BSCQ-05-04	.156			.160/.164 #20	.126	.187	.250	.425						
QASK505	BSCQ-05-05	.251				.312	.375	.550							
QASK508	BSCQ-05-08	.376	.437	.500		.670									
QASK604	BSCQ-06-04	.126	.187	.250		.450									
QASK606	BSCQ-06-06	.251	.312	.375	.575										
QASK608	BSCQ-06-08	.376	.437	.500	.700										
QASK610	BSCQ-06-10	.501	.562	.625	.850										
QASK612	BSCQ-06-12	.626	.687	.750	.980										
QASK614	BSCQ-06-14	.751	.812	.875	1.110										
QASK804	BSCQ-08-04	.250 1/4	.257/.261 F	.126	.187	.250	.500								
QASK806	BSCQ-08-06			.251	.312	.375	.625								
QASK808	BSCQ-08-08			.376	.437	.500	.750								
QASK810	BSCQ-08-10			.501	.562	.625	.900								
QASK812	BSCQ-08-12			.626	.687	.750	1.030								
QASK814	BSCQ-08-14			.751	.812	.875	1.160								
QASK816	BSCQ-08-16			.876	.937	1.000	1.290								

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

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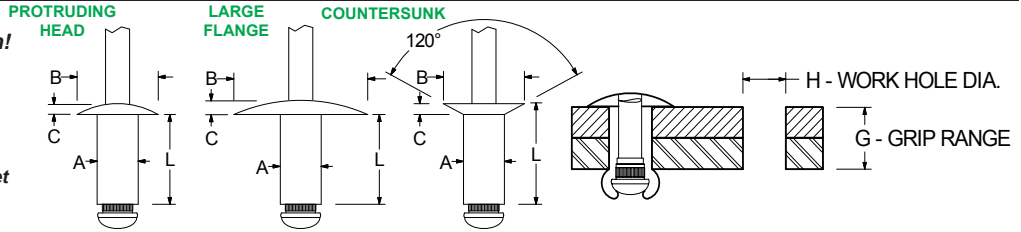
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Q Rivets offer greater shear strength and 100% mandrel retention! The mandrel is designed to effect a weather-tight seal when installed properly and provide good vibration resistance.

*NOTE: Mandrels break flush with the rivet head when in the Mid-Grip Range (except -04-01's which break at .062)



RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	Avdel®	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE (SEE NOTE ABOVE) "G"			BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)		
						MIN	MID*	MAX				SHEAR	TENSILE	
ALUMINUM RIVET	PROTRUDING HEAD	QAAD401	AAPQ-04-01	.125 1/8	.129/.133 #30	-	-	.062	.212	.250	.042	225	250	
		QAAD402	AAPQ-04-02			.063	.093	.125	.275					
		QAAD403	AAPQ-04-03			.094	.125	.187	.337					
		QAAD404	AAPQ-04-04			.126	.187	.250	.400					
		QAAD405	AAPQ-04-05			.188	.250	.312	.462					
		QAAD406	AAPQ-04-06			.251	.312	.375	.535					
		QAAD407	AAPQ-04-07			.313	.375	.437	.602					
		QAAD408	AAPQ-04-08			.376	.437	.500	.670					
		QAAD502	AAPQ-05-02			.062	.093	.125	.300					
		QAAD504	AAPQ-05-04			.126	.187	.250	.425					
		QAAD506	AAPQ-05-06			.251	.312	.375	.550					
		QAAD508	AAPQ-05-08			.376	.437	.500	.675					
	QAAD602	AAPQ-06-02	.062	.093	.125	.325								
	QAAD604	AAPQ-06-04	.126	.187	.250	.450								
	QAAD606	AAPQ-06-06	.251	.312	.375	.575								
	QAAD608	AAPQ-06-08	.376	.437	.500	.700								
	QAAD610	AAPQ-06-10	.501	.562	.625	.850								
	QAAD612	AAPQ-06-12	.626	.687	.750	.980								
	QAAD614	AAPQ-06-14	.751	.812	.875	1.110								
	QAAD802	AAPQ-08-02	.062	.093	.125	.375								
	QAAD804	AAPQ-08-04	.126	.187	.250	.500								
	QAAD806	AAPQ-08-06	.251	.312	.375	.625								
	QAAD808	AAPQ-08-08	.376	.437	.500	.750								
	QAAD810	AAPQ-08-10	.501	.562	.625	.900								
	QAAD812	AAPQ-08-12	.626	.687	.750	1.030								
	QAAD814	AAPQ-08-14	.751	.812	.875	1.160								
	QAAD816	AAPQ-08-16	.876	.937	1.000	1.290								
	ALUMINUM RIVET	LARGE FLANGE	QAAL402	AALQ-04-02	.125 1/8	.129/.133 #30	.063	.093	.125	.275	.375	.065	225	250
			QAAL404	AALQ-04-04			.126	.187	.250	.400				
			QAAL406	AALQ-04-06			.251	.312	.375	.535				
			QAAL408	AALQ-04-08			.376	.437	.500	.670				
			QAAL504	AALQ-05-04			.126	.187	.250	.425				
			QAAL506	AALQ-05-06			.251	.312	.375	.550				
			QAAL508	AALQ-05-08			.376	.437	.500	.675				
			QAAL604	AALQ-06-04			.126	.187	.250	.450				
			QAAL606	AALQ-06-06			.251	.312	.375	.575				
QAAL608			AALQ-06-08	.376			.437	.500	.700					
QAAL610			AALQ-06-10	.501			.562	.625	.850					
QAAL612			AALQ-06-12	.626			.687	.750	.980					
QAAL614	AALQ-06-14	.751	.812	.875	1.110									
QAAL804	AALQ-08-04	.126	.187	.250	.500									
QAAL806	AALQ-08-06	.251	.312	.375	.625									
QAAL808	AALQ-08-08	.376	.437	.500	.750									
QAAL810	AALQ-08-10	.501	.562	.625	.900									
QAAL812	AALQ-08-12	.626	.687	.750	1.030									
QAAL814	AALQ-08-14	.751	.812	.875	1.160									
QAAL816	AALQ-08-16	.876	.937	1.000	1.290									
ALUMINUM MANDREL	120° COUNTERSUNK	QAAK403	AACQ-04-03	.125 1/8	.129/.133 #30	.094	.125	.187	.337	.226	.032	225	250	
		QAAK404	AACQ-04-04			.126	.187	.250	.400					
		QAAK405	AACQ-04-05			.188	.250	.312	.462					
		QAAK406	AACQ-04-06			.251	.312	.375	.535					
		QAAK407	AACQ-04-07			.313	.375	.437	.602					
		QAAK408	AACQ-04-08			.376	.437	.500	.670					
		QAAK504	AACQ-05-04			.126	.187	.250	.425					
		QAAK506	AACQ-05-06			.251	.312	.375	.550					
		QAAK508	AACQ-05-08			.376	.437	.500	.675					
		QAAK604	AACQ-06-04			.126	.187	.250	.450					
		QAAK606	AACQ-06-06			.251	.312	.375	.575					
		QAAK608	AACQ-06-08			.376	.437	.500	.700					
QAAK610	AACQ-06-10	.501	.562	.625	.850									
QAAK612	AACQ-06-12	.626	.687	.750	.980									
QAAK614	AACQ-06-14	.751	.812	.875	1.110									
QAAK804	AACQ-08-04	.126	.187	.250	.500									
QAAK806	AACQ-08-06	.251	.312	.375	.625									
QAAK808	AACQ-08-08	.376	.437	.500	.750									
QAAK810	AACQ-08-10	.501	.562	.625	.900									
QAAK812	AACQ-08-12	.626	.687	.750	1.030									
QAAK814	AACQ-08-14	.751	.812	.875	1.160									
QAAL816	AACQ-08-16	.876	.937	1.000	1.290									

OTHER COLORS AND FINISHES AVAILABLE

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See pages C43-C46 for installation tools

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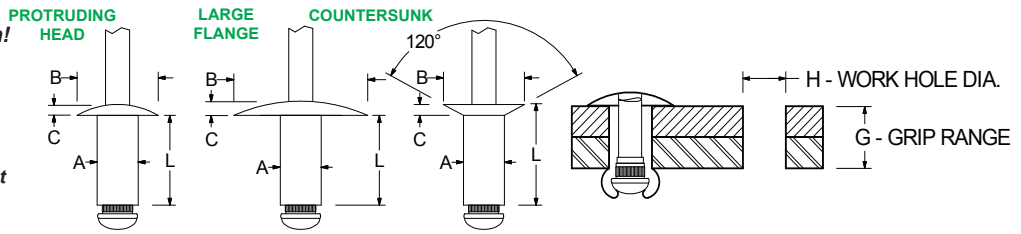
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RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	Avdel®	BODY DIAMETER (NOM.) "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE (SEE NOTE ABOVE) "G"			BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)		
						MIN	MID*	MAX				SHEAR	TENSILE	
STEEL RIVET	PROTRUDING HEAD	QSSD401	SSPQ-04-01	.125 1/8	.129/.133 #30	-	-	.062	.212	.250	.042	500	400	
		QSSD402	SSPQ-04-02			.063	.093	.125	.275					
		QSSD403	SSPQ-04-03			.094	.125	.187	.337					
		QSSD404	SSPQ-04-04			.126	.187	.250	.400					
		QSSD405	SSPQ-04-05			.188	.250	.312	.462					
		QSSD406	SSPQ-04-06			.251	.312	.375	.535					
		QSSD407	SSPQ-04-07			.313	.375	.437	.602					
		QSSD408	SSPQ-04-08			.376	.437	.500	.670					
		QSSD502	SSPQ-05-02			.062	.093	.125	.300					
		QSSD504	SSPQ-05-04			.126	.187	.250	.425					
		QSSD506	SSPQ-05-06			.251	.312	.375	.550					
		QSSD508	SSPQ-05-08			.376	.437	.500	.675					
	QSSD602	SSPQ-06-02	.062	.093	.125	.325								
	QSSD604	SSPQ-06-04	.126	.187	.250	.450								
	QSSD606	SSPQ-06-06	.251	.312	.375	.575								
	QSSD608	SSPQ-06-08	.376	.437	.500	.700								
	QSSD610	SSPQ-06-10	.501	.562	.625	.850								
	QSSD612	SSPQ-06-12	.626	.687	.750	.980								
	QSSD802	SSPQ-08-02	.062	.093	.125	.375								
	QSSD804	SSPQ-08-04	.126	.187	.250	.500								
	QSSD806	SSPQ-08-06	.251	.312	.375	.625								
	QSSD808	SSPQ-08-08	.376	.437	.500	.750								
	QSSD810	SSPQ-08-10	.501	.562	.625	.900								
	QSSD812	SSPQ-08-12	.626	.687	.750	1.030								
	QSSD814	SSPQ-08-14	.751	.812	.875	1.160								
	QSSD816	SSPQ-08-16	.876	.937	1.000	1.290								
	STEEL RIVET	LARGE FLANGE	QSSL402	SSLQ-04-02	.125 1/8	.129/.133 #30	.063	.093	.125	.275	.375	.065	500	400
			QSSL404	SSLQ-04-04			.126	.187	.250	.400				
			QSSL406	SSLQ-04-06			.251	.312	.375	.535				
			QSSL408	SSLQ-04-08			.376	.437	.500	.670				
			QSSL504	SSLQ-05-04			.126	.187	.250	.425				
			QSSL506	SSLQ-05-06			.251	.312	.375	.550				
			QSSL508	SSLQ-05-08			.376	.437	.500	.670				
			QSSL604	SSLQ-06-04			.251	.312	.375	.450				
			QSSL606	SSLQ-06-06			.376	.437	.500	.575				
			QSSL608	SSLQ-06-08			.501	.562	.625	.700				
QSSL610			SSLQ-06-10	.626			.687	.750	.850					
QSSL612			SSLQ-06-12	.751			.812	.875	.980					
QSSL804	SSLQ-08-04	.126	.187	.250	.500									
QSSL806	SSLQ-08-06	.251	.312	.375	.625									
QSSL808	SSLQ-08-08	.376	.437	.500	.750									
QSSL810	SSLQ-08-10	.501	.562	.625	.900									
QSSL812	SSLQ-08-12	.626	.687	.750	1.030									
QSSL814	SSLQ-08-14	.751	.812	.875	1.160									
QSSL816	SSLQ-08-16	.876	.937	1.000	1.290									
STEEL RIVET	120° COUNTERSUNK	QSSK403	SSCQ-04-03	.125 1/8	.129/.133 #30	.094	.125	.187	.337	.226	.032	500	400	
		QSSK404	SSCQ-04-04			.126	.187	.250	.400					
		QSSK405	SSCQ-04-05			.188	.250	.312	.462					
		QSSK406	SSCQ-04-06			.251	.312	.375	.535					
		QSSK407	SSCQ-04-07			.313	.375	.437	.602					
		QSSK408	SSCQ-04-08			.376	.437	.500	.670					
		QSSK504	SSCQ-05-04			.126	.187	.250	.425					
		QSSK506	SSCQ-05-06			.251	.312	.375	.550					
		QSSK508	SSCQ-05-08			.376	.437	.500	.670					
		QSSK604	SSCQ-06-04			.126	.187	.250	.450					
		QSSK606	SSCQ-06-06			.251	.312	.375	.575					
		QSSK608	SSCQ-06-08			.376	.437	.500	.700					
QSSK610	SSCQ-06-10	.501	.562	.625	.850									
QSSK612	SSCQ-06-12	.626	.687	.750	.980									
QSSK804	SSCQ-08-04	.126	.187	.250	.500									
QSSK806	SSCQ-08-06	.251	.312	.375	.625									
QSSK808	SSCQ-08-08	.376	.437	.500	.750									
QSSK810	SSCQ-08-10	.501	.562	.625	.900									
QSSK812	SSCQ-08-12	.626	.687	.750	1.030									
QSSK814	SSCQ-08-14	.751	.812	.875	1.160									
QSSK816	SSCQ-08-16	.876	.937	1.000	1.290									

OTHER COLORS AND FINISHES AVAILABLE

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

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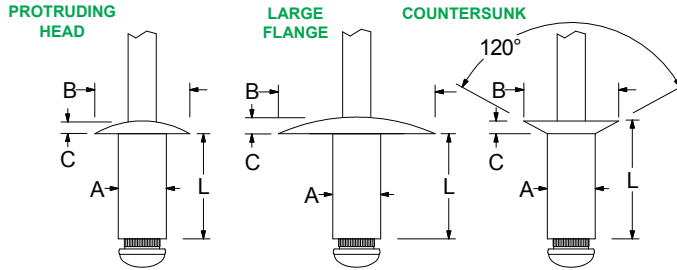
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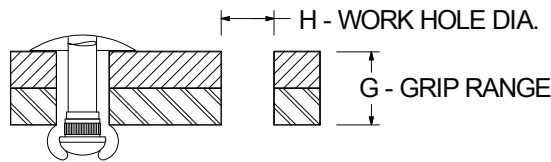


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RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	Avdel®	BODY DIAMETER (NOM.) "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE (SEE NOTE ABOVE) "G"			BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)	
						MIN	MID*	MAX				SHEAR	TENSILE
STAINLESS RIVET STAINLESS MANDREL <small>OTHER COLORS AND FINISHES AVAILABLE</small>	PROTRUDING HEAD	QTTD401	CCPQ-04-01	1/8	#30	-	-	.062	.212	.250	.042	700	600
		QTTD402	CCPQ-04-02			.063	.093	.125	.275				
		QTTD403	CCPQ-04-03			.094	.125	.187	.337				
		QTTD404	CCPQ-04-04			.126	.187	.250	.400				
		QTTD405	CCPQ-04-05			.188	.250	.312	.462				
		QTTD406	CCPQ-04-06			.251	.312	.375	.535				
		QTTD502	CCPQ-05-02	5/32	#20	.062	.093	.125	.300				
		QTTD504	CCPQ-05-04			.126	.187	.250	.425				
		QTTD506	CCPQ-05-06			.251	.312	.375	.550				
		QTTD602	CCPQ-06-02	3/16	#11	.062	.093	.125	.325				
		QTTD604	CCPQ-06-04			.126	.187	.250	.450				
		QTTD606	CCPQ-06-06			.251	.312	.375	.575				
	QTTD608	CCPQ-06-08	.376			.437	.500	.700					
	QTTD802	CCPQ-08-02	1/4	F	.062	.093	.125	.375					
	QTTD804	CCPQ-08-04			.126	.187	.250	.500					
	QTTD806	CCPQ-08-06			.251	.312	.375	.625					
	QTTD808	CCPQ-08-08			.376	.437	.500	.750					
	QTTD810	CCPQ-08-10			.501	.562	.625	.900					
	LARGE FLANGE	QTTL402	CCLQ-04-02	1/8	#30	.063	.093	.125	.337				
		QTTL404	CCLQ-04-04			.126	.187	.250	.400				
		QTTL406	CCLQ-04-06			.251	.312	.375	.462				
		QTTL504	CCLQ-05-04	5/32	#20	.126	.187	.250	.425				
		QTTL506	CCLQ-05-06			.251	.312	.375	.550				
QTTL604		CCLQ-06-04	3/16	#11	.126	.187	.250	.325					
QTTL606	CCLQ-06-06	.251			.312	.375	.450						
QTTL608	CCLQ-06-08	.376			.437	.500	.575						
120° COUNTERSUNK	QTTK403	CCCQ-04-03	1/8	#30	.094	.125	.187	.337					
	QTTK404	CCCQ-04-04			.126	.187	.250	.400					
	QTTK405	CCCQ-04-05			.188	.250	.312	.462					
	QTTK406	CCCQ-04-06			.251	.312	.375	.535					
	QTTK504	CCCQ-05-04			5/32	#20	.126	.187	.250	.425			
	QTTK506	CCCQ-05-06					.251	.312	.375	.550			
	QTTK604	CCCQ-06-04	3/16	#11	.126	.187	.250	.450					
	QTTK606	CCCQ-06-06			.251	.312	.375	.575					
	QTTK608	CCCQ-06-08			.376	.437	.500	.700					
	QTTK804	CCCQ-08-04	1/4	F	.126	.187	.250	.500					
	QTTK806	CCCQ-08-06			.251	.312	.375	.625					
	QTTK808	CCCQ-08-08			.376	.437	.500	.750					
QTTK810	CCCQ-08-10	.501			.562	.625	.900						

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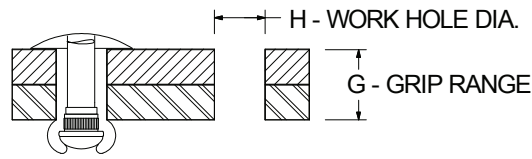
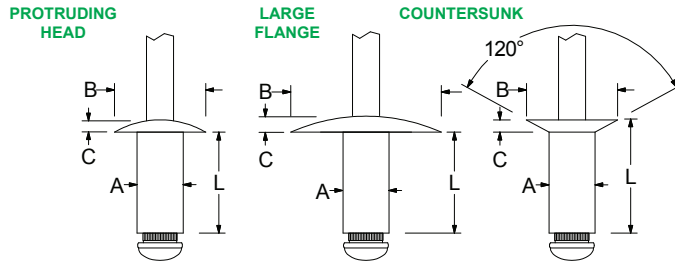
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"Q" STYLE BLIND RIVETS

Q Rivets offer greater shear strength and 100% mandrel retention! The mandrel is designed to effect a weather-tight seal when installed properly and provide good vibration resistance.

***NOTE: Mandrels break flush with the rivet head when in the Mid-Grip Range (except -04-01's which break at .062)**



RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	Avdel®	BODY DIAMETER (NOM.) "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE (SEE NOTE ABOVE) "G"			BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)			
						MIN	MID*	MAX				SHEAR	TENSILE		
 OTHER COLORS AND FINISHES AVAILABLE	PROTRUDING HEAD	QMSD401	MSPQ-04-01			-	-	.062	.212			650	525		
		QMSD402	MSPQ-04-02			.063	.093	.125	.275						
		QMSD403	MSPQ-04-03	.125	.129/.133	.094	.125	.187	.337	.250	.042				
		QMSD404	MSPQ-04-04	1/8	#30	.126	.187	.250	.400						
		QMSD405	MSPQ-04-05			.188	.250	.312	.462						
		QMSD406	MSPQ-04-06			.251	.312	.375	.535						
		QMSD502	MSPQ-05-02	.156	.160/.164	.062	.093	.125	.300	.312	.050			950	900
		QMSD504	MSPQ-05-04	5/32	#20	.126	.187	.250	.425						
		QMSD506	MSPQ-05-06			.251	.312	.375	.550						
		QMSD602	MSPQ-06-02	.187	.192/.196	.062	.093	.125	.325	.375	.060			1450	1100
		QMSD604	MSPQ-06-04	3/16	#11	.126	.187	.250	.450						
		QMSD606	MSPQ-06-06			.251	.312	.375	.575						
	QMSD608	MSPQ-06-08			.376	.437	.500	.700							
	QMSD802	MSPQ-08-02	.250	.257/.261	.062	.093	.125	.375	.500	.080	2350	2150			
	QMSD804	MSPQ-08-04	1/4	F	.126	.187	.250	.500							
	QMSD806	MSPQ-08-06			.251	.312	.375	.625							
	QMSD808	MSPQ-08-08			.376	.437	.500	.750							
	QMSD810	MSPQ-08-10			.501	.562	.625	.900							
	QMSD812	MSPQ-08-12			.626	.687	.750	1.030							
	QMSD814	MSPQ-08-14			.751	.812	.875	1.160							
	QMSD816	MSPQ-08-16			.876	.937	1.000	1.290							
	LARGE FLANGE	QMSL402	MSLQ-04-02	.125	.129/.133	.063	.093	.125	.337	.375	.065	650	525		
		QMSL404	MSLQ-04-04	1/8	#30	.126	.187	.250	.400						
		QMSL406	MSLQ-04-06			.251	.312	.375	.462						
QMSL504		MSLQ-05-04	.156	.160/.164	.126	.187	.250	.425	.469	.075	950	900			
QMSL506		MSLQ-05-06	5/32	#20	.251	.312	.375	.550							
QMSL604		MSLQ-06-04	.187	.192/.196	.126	.187	.250	.325	.625	.092	1450	1100			
QMSL606	MSLQ-06-06	3/16	#11	.251	.312	.375	.450								
QMSL608	MSLQ-06-08			.376	.437	.500	.575								
120° COUNTERSUNK	QMSK403	MSCQ-04-03	.125	.129/.133	.094	.125	.187	.337	.226	.032	650	525			
	QMSK404	MSCQ-04-04	1/8	#30	.126	.187	.250	.400							
	QMSK405	MSCQ-04-05			.188	.250	.312	.462							
	QMSK406	MSCQ-04-06			.251	.312	.375	.535							
	QMSK504	MSCQ-05-04	.156	.160/.164	.126	.187	.250	.425	.281	.040	950	900			
	QMSK506	MSCQ-05-06	5/32	#20	.251	.312	.375	.550							
	QMSK604	MSCQ-06-04	.187	.192/.196	.126	.187	.250	.450	.344	.050	1450	1100			
	QMSK606	MSCQ-06-06	3/16	#11	.251	.312	.375	.575							
	QMSK608	MSCQ-06-08			.376	.437	.500	.700							
	QMSK804	MSCQ-08-04	.250	.257/.261	.126	.187	.250	.500	.468	.071	2350	2150			
QMSK806	MSCQ-08-06	1/4	F	.251	.312	.375	.625								
QMSK808	MSCQ-08-08			.376	.437	.500	.750								
QMSK810	MSCQ-08-10			.501	.562	.625	.900								

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

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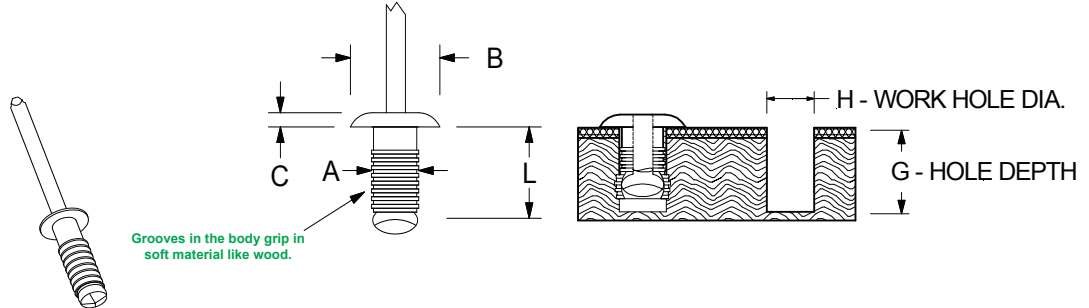
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"METAL TO WOOD" BLIND RIVETS

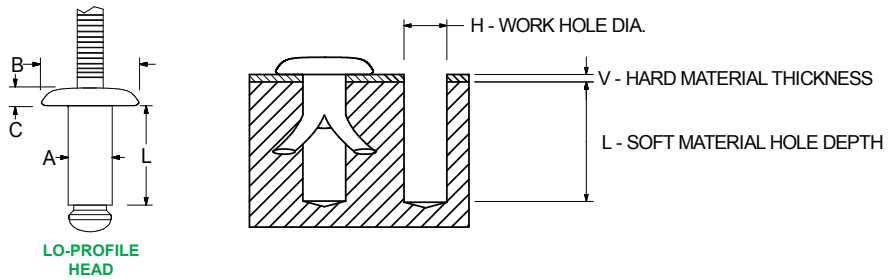
Groove Rivets are designed to fasten hard materials to soft materials. For example metal to wood. They are typically used in blind (non-drilled-through) holes.



GROOVE RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	POP®	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	SUGGESTED BLIND HOLE DEPTH "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)	
										SHEAR	TENSILE
<p>ALUMINUM RIVET PLAIN FINISH</p> <p>STEEL MANDREL</p>	DOME HEAD	PASG408	TASD48BS	.130	.138	.414	.384	.256	.040	NOT RATED	NOT RATED
		PASG506	TASD56BS	.161	.169	.367	.344	.315	.050		
		PASG510	TASD510BS			.508	.482				
		PASG604	TASD64BS	.197	.205	.343	.305	.374	.050		
		PASG608	TASD68BS			.477	.443				
		PASG610	TASD610BS			.560	.502				
PASG612	TASD612BS	.623	.581								
PASG625	TASD625BS			1.055	1.014						

T-Lok Rivets are designed to fasten hard materials to soft materials, for example metal to wood. They are typically used in blind (non-drilled-through) holes.



T-LOK® BLIND RIVET

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	Avdel®	FINISH	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	HARD MATERIAL THICKNESS "V"		SOFT MATERIAL HOLE DEPTH "L" MIN.		HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE PULL-OUT STRENGTHS IN LBS. (SEE NOTE)
						MIN	MAX	FOR "V" MIN	FOR "V" MAX			
<p>STEEL RIVET</p> <p>STEEL MANDREL</p>	LO-PROFILE HEAD	OBM01-00512	YELLOW ZINC	.162/.169	.169/.174	.010	.050	.400	.360	.311	.051	160
		OBM01-00520										
		OBM01-00614	CLEAR ZINC	.178/.187	.187/.193	.010	.120	.480	.370	.394	.081	220
		OBM01-00620										
OBM04-00512	CLEAR ZINC	.162/.169	.169/.174	.010	.050	.400	.360	.311	.051	160		
OBM04-00520												
OBM04-00614	CLEAR ZINC	.178/.187	.187/.193	.010	.120	.480	.370	.394	.081	220		
OBM04-00620												

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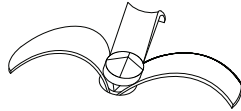
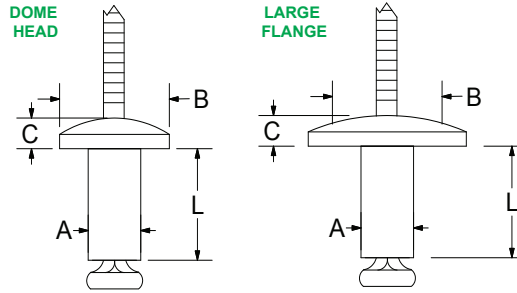
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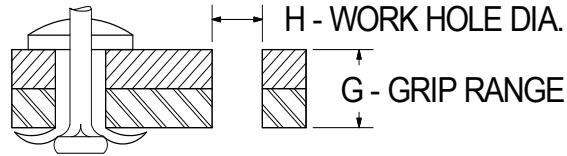


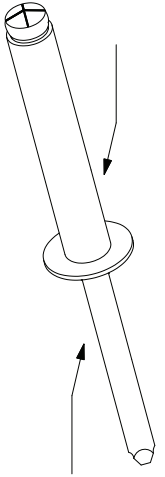
"T" STYLE BLIND RIVETS

T-Style Rivet bodies splits into petals and peels back onto the work surface upon setting. These rivets are designed for structural and similar high-strength applications. They offer exceptional pull-up properties and can be used in oversize holes.



Backside Of Set Rivet



RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	ITEM NUMBER	PART NUMBER	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (NOM.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)								
										SHEAR	TENSILE							
ALUMINUM RIVET PLAIN FINISH  STEEL MANDREL Various colors and finishes available	DOME HEAD	PAST402	AD42TFBS	.125 1/8	.142 #27	.063-.125	.354	.242	.048	180	213							
		PAST403	AD43TFBS			.126-.187	.433											
		PAST404	AD44TFBS			.188-.250	.512											
		PAST406	AD46TFBS			.251-.312	.590											
		PAST407	AD47TFBS			.313-.437	.669											
		PAST502	AD52TFBS			.156 5/32	.173 #17					.031-.155	.354	.295	.059	315	450	
		PAST503	AD53TFBS	.126-.187	.433													
		PAST504	AD54TFBS	.188-.250	.512													
		PAST505	AD55TFBS	.251-.312	.590													
		PAST506	AD56TFBS	.313-.375	.669													
		PAST508	AD58TFBS	.376-.500	.748													
		PAST510	AD510TFBS	.501-.625	.827													
	DOME HEAD	PAST6140	AD6140TFBS	.187 3/16	.192/.196 #11	.032-.140	.447	.390	.103	950	1025	600						
		PAST6187	AD6187TFBS			.141-.187	.510											
		PAST6250	AD6250TFBS			.188-.250	.572											
		PAST6312	AD6312TFBS			.251-.312	.635											
		PAST6375	AD6375TFBS			.313-.375	.697											
		PAST6437	AD6437TFBS			.376-.437	.760											
	PAST6519	AD6519TFBS	.438-.519	.822														
	DOME HEAD	PAST8140	AD8140TFBS	.250 1/4	.257/.261 F	.032-.140	.500	.510	.126	1425	1575	1100						
PAST8187		AD8187TFBS	.141-.187			.552												
PAST8250		AD8250TFBS	.188-.250			.615												
PAST8312		AD8312TFBS	.251-.312			.677												
PAST8375		AD8375TFBS	.313-.375			.740												
PAST8437		AD8437TFBS	.376-.437			.802												
PAST8519		AD8519TFBS	.438-.519			.865												
PAST8620		AD8620TFBS	.520-.620			.937												
LARGE FLANGE		PASTL6075	AD6075TFBSLF			.187 3/16	.192/.196 #11						.046-.140	.382	.563	.103	950	600
		PASTL6140	AD6140TFBSLF										.032-.140	.447				
	PASTL8140	AD8140TFBSLF	.032-.140	.500	.750			.126	1425	1100								

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

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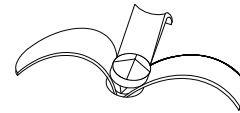
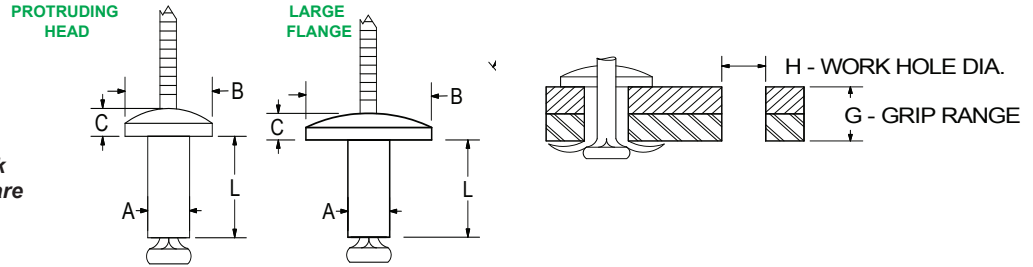
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"T" STYLE BLIND RIVET

T-Style Rivets body splits into petals and peels back onto the work surface upon setting. These rivets are designed for structural and similar high-strength applications. They offer exceptional pull-up properties and can be used in oversize holes.



Backside of set rivet

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)							
									SHEAR	TENSILE						
<p>ALUMINUM RIVET PLAIN FINISH</p> <p>ALUMINUM MANDREL</p> <p>Various colors and finishes available</p>	PROTRUDING HEAD	BAPTS-06-062	.187 3/16	.192/.196 #11	.046-.078	.395	.395	.091	800	550						
		BAPTS-06-093			.078-.109	.395										
		BAPTS-06-125			.109-.140	.395										
		BAPTS-06-156			.140-.171	.395										
		BAPTS-06-187			.171-.203	.457										
		BAPTS-06-218			.203-.234	.457										
		BAPTS-06-250			.234-.265	.529										
		BAPTS-06-281			.265-.296	.529										
		BAPTS-06-312			.296-.328	.582										
		BAPTS-06-343			.328-.359	.582										
		BAPTS-06-375			.359-.390	.645										
		BAPTS-06-406			.390-.421	.645										
	BAPTS-06-437	.421-.453	.707													
	BAPTS-06-468	.453-.484	.707													
	BAPTS-06-500	.484-.515	.770													
	BAPTS-08-125	LARGE FLANGE	.250 1/4	.257/.261 F	.093-.156	.500	.520	.110	1400	1000						
	BAPTS-08-187				.156-.218	.562										
	BAPTS-08-250				.218-.281	.625										
	BAPTS-08-312				.281-.343	.687										
	BAPTS-08-375				.343-.406	.750										
	BAPTS-08-437				.406-.468	.812										
	BAPTS-08-500				.468-.531	.875										
	BAPTS-08-562				.531-.593	.937										
	BALTS-06-062				LARGE FLANGE	.187 3/16					.192/.196 #11	.046-.078	.395	.562	.091	800
BALTS-06-093	.078-.109											.395				
BALTS-06-125	.109-.140											.395				
BALTS-06-156	.140-.171											.395				
BALTS-06-187	.171-.203	.457														
BALTS-06-218	.203-.234	.457														
BALTS-06-250	.234-.265	.529														
BALTS-06-281	.265-.296	.529														
BALTS-06-312	.296-.328	.582														
BALTS-06-343	.328-.359	.582														
BALTS-06-375	.359-.390	.645														
BALTS-06-406	.390-.421	.645														
BALTS-06-437	.421-.453	.707														
BALTS-06-468	.453-.484	.707														
BALTS-06-500	.484-.515	.770														
BALTS-08-125	LARGE FLANGE	.250 1/4	.257/.261 F	.093-.156	.500	.750	.110	1400	1000							
BALTS-08-187				.156-.218	.562											
BALTS-08-250				.218-.281	.625											
BALTS-08-312				.281-.343	.687											
BALTS-08-375				.343-.406	.750											
BALTS-08-437				.406-.468	.812											
BALTS-08-500				.468-.531	.875											
BALTS-08-562				.531-.593	.937											

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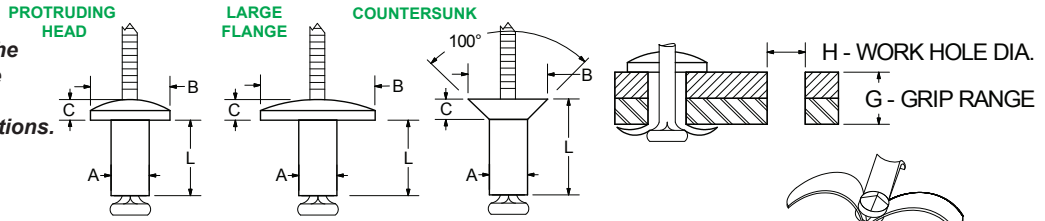
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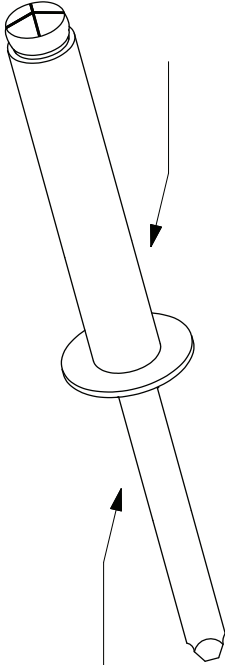


"T" STYLE BLIND RIVET

T-Style Rivet body splits into petals and peels back onto the work surface upon setting. These rivets are designed for structural and similar high-strength applications. They offer exceptional pull-up properties and can be used in oversize holes.



Backside of set rivet

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)	
									SHEAR	TENSILE
ALUMINUM RIVET PLAIN FINISH  STEEL MANDREL Various colors and finishes available	PROTRUDING HEAD	BSPT-06-062	.187 3/16	.192/.196 #11	.046-.078	.395	.395	.091	1000	600
		BSPT-06-093			.078-.109	.395				
		BSPT-06-125			.109-.140	.395				
		BSPT-06-156			.140-.171	.395				
		BSPT-06-187			.171-.203	.457				
		BSPT-06-218			.203-.234	.457				
		BSPT-06-250			.234-.265	.529				
		BSPT-06-281			.265-.296	.529				
		BSPT-06-312			.296-.328	.582				
		BSPT-06-343			.328-.359	.582				
		BSPT-06-375			.359-.390	.645				
		BSPT-06-406			.390-.421	.645				
		BSPT-06-437			.421-.453	.707				
		BSPT-06-468			.453-.484	.707				
	BSPT-06-500	.484-.515	.770							
	BSPT-08-125	.250 1/4	.257/.261 F	.093-.156	.500	.520	.110	1900	1100	
	BSPT-08-187			.156-.218	.562					
	BSPT-08-250			.218-.281	.625					
	BSPT-08-312			.281-.343	.687					
	BSPT-08-375			.343-.406	.750					
	BSPT-08-437			.406-.468	.812					
	BSPT-08-500			.468-.531	.875					
	BSPT-08-562			.531-.593	.937					
	BSLT-06-062	.187 3/16	.192/.196 #11	.046-.078	.395	.562	.091	1000	600	
BSLT-06-093	.078-.109			.395						
BSLT-06-125	.109-.140			.395						
BSLT-06-156	.140-.171			.395						
BSLT-06-187	.171-.203			.457						
BSLT-06-218	.203-.234			.457						
BSLT-06-250	.234-.265			.529						
BSLT-06-281	.265-.296			.529						
BSLT-06-312	.296-.328			.582						
BSLT-06-343	.328-.359			.582						
BSLT-06-375	.359-.390			.645						
BSLT-06-406	.390-.421			.645						
BSLT-06-437	.421-.453			.707						
BSLT-06-468	.453-.484			.707						
BSLT-06-500	.484-.515	.770								
BSLT-08-125	.250 1/4	.257/.261 F	.093-.156	.500	.750	.110	1900	1100		
BSLT-08-187			.156-.218	.562						
BSLT-08-250			.218-.281	.625						
BSLT-08-312			.281-.343	.687						
BSLT-08-375			.343-.406	.750						
BSLT-08-437			.406-.468	.812						
BSLT-08-500			.468-.531	.875						
BSLT-08-562			.531-.593	.937						
MULTI-GRIP "T" STYLE RIVETS										
PROTRUDING HEAD	BSPT-06-03	.187 3/16	.192/.196 #11	.046-.203	.457	.395	.091	1000	600	
	BSPT-06-06			.203-.390	.645					
	BSPT-06-09			.390-.578	.832					
LARGE FLANGE	BSLT-06-03	.187 3/16	.192/.196 #11	.046-.203	.457	.562	.091	1000	600	
	BSLT-06-06			.203-.390	.645					
	BSLT-06-09			.390-.578	.832					
100° COUNTERSUNK	BSCT-06-06	.187 3/16	.192/.196 #11	.203-.390	.645	.371	.093	1000	600	
	BSCT-06-09			.390-.578	.832					
	BSCT-06-12			.578-.765	1.02					

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

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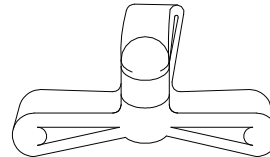
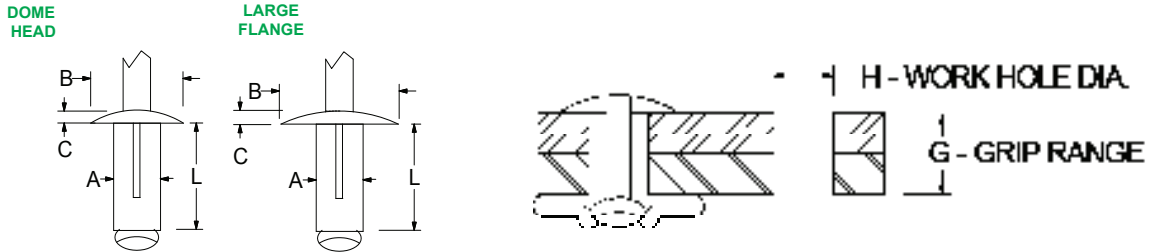
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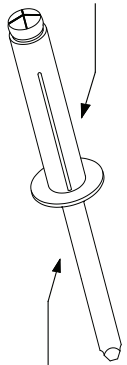


"TRI-GRIP" BLIND RIVETS

Tri-Grip Rivets provide a large bearing surface that resists pull-out or cracking when set in plastics and other brittle and soft materials.



Backside of set rivet

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (NOM.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)			
									SHEAR	TENSILE		
ALUMINUM RIVET PLAIN FINISH  ALUMINUM MANDREL Various colors and finishes available	DOMED HEAD	ACD408AS ADS44ABS ADS46ABSR	.123/.128	.129/.133	.000-.250 .125-.250 .125-.375	.664 .835 .960	.248 .312 .312	.060	124 150 150	202 150 150		
		AD52ATF AD54ATF AD56ATF AD58ATF	.154/.163	.162/.167 #20	.040-.118 .040-.250 .040-.375 .125-.500	.590 .790 .852 .977	.312	.060	200	225		
		ACD508ASM ADS54ABSL * ACD512ASM ACD516ASM ADS58ABSL *	.154/.163	.165/.169	.000-.250 .126-.250 .300-.375 .197-.472 .197-.472	.689 .690 .884 .984 .980	.311 .315 .311 .311 .315	.051	202 290 202 202 290	292 200 292 292 200		
		AD64ATF AD66ATF AD68ATF AD610ATF AD612ATF	.200	.209/.221 #4	.062-.250 .187-.375 .312-.500 .437-.625 .563-.750	.770 .895 1.020 1.145 1.270	.385	.080	350	450		
		ACD608ASM ADS66ABSR ACD612ASM ACD616ASM	.185/.195	.197/.205	.000-.250 .187-.375 .118-.374 .197-.472	.689 1.000 .795 .925	.375 .470 .375 .375	.068	225 405 225 225	312 290 312 312		
		ACD608ASMLF12 ACD612ASMLF12 ACD616ASMLF12	.184/.194	.197/.205	.000-.248 .000-.332 .332-.469	.690 .787 .925	.471	.075	225	312		
		ACD608ASMLF14 ACD612ASMLF14 ACD616ASMLF14	.184/.194	.197/.205	.000-.248 .000-.332 .332-.469	.690 .787 .925	.551	.075	225	312		
		ALUMINUM RIVET STEEL MANDREL	LARGE FLANGE	ADS66BS	.188	.197/.218	.080-.375	1.020	.470	.080	300	325

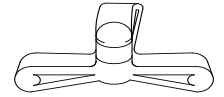
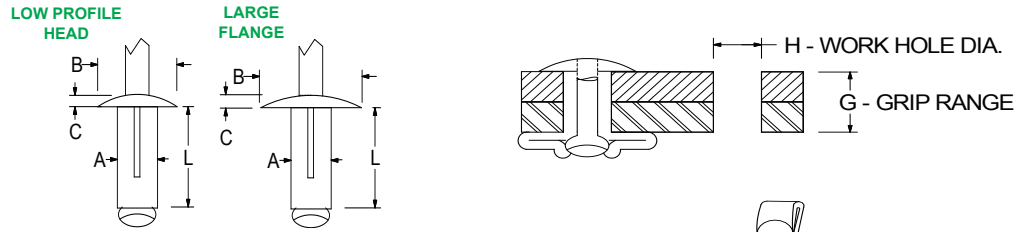
* Part numbers ending in "L" have locking mandrels.

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.



"TRI-GRIP" BLIND RIVET

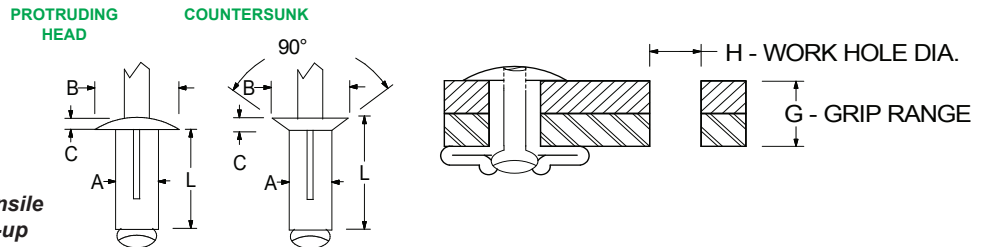
Bulbex® blind Rivets provide a large bearing surface that resists pull-out or cracking when set in plastics or other brittle and soft materials.



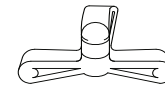
Backside of set rivet

BULBEX® RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	FINISH	BODY DIAMETER (MAX.) "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)	
										SHEAR	TENSILE
<p>ALUMINUM RIVET ALUMINUM MANDREL</p> <p>Various colors and finishes available</p>	LOW PROFILE HEAD	OBF01-0516 OBF01-0523	PLAIN	.165	.165/.177	.040-.118 .040-.275	.630 .840	.312	.060	135	225
		OBF11-0516 OBF11-0523	BLACK ANODIZED	.165	.165/.177	.040-.118 .040-.275	.630 .840	.312	.060	135	225
		OBF01-0619 OBF01-0625 OBF01-0630	PLAIN	.197	.197/.207	.040-.157 .040-.354 .157-.472	.720 .920 1.07	.387	.080	175	240
		OBF11-0619 OBF11-0625 OBF11-0630	BLACK ANODIZED	.197	.197/.207	.040-.157 .040-.354 .157-.472	.720 .920 1.07	.387	.080	175	240
	LARGE FLANGE	OBF41-0619 OBF41-0625	PLAIN	.197	.197/.207	.040-.157 .040-.354	.720 .920	.610	.080	175	270



Klamp-Tite® Structural Rivets have an external locking feature for the mandrel which provides exceptional shear and tensile strength, vibration resistance and clamp-up force. These rivets have a wide grip range and provide a large bearing surface that resists pull-out.



Backside of set rivet

KLAMP-TITE® STRUCTURAL RIVETS

A SPECIAL NOSEPIECE IS REQUIRED FOR INSTALLATION OF THESE RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	BODY DIAMETER "A"	WORK HOLE & DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)		
									SHEAR	TENSILE	
<p>ALUMINUM RIVET ALUMINUM MANDREL</p> <p>Various colors and finishes available</p>	PROTRUDING HEAD	BAPKTR-06-04 BAPKTR-06-06 BAPKTR-06-09 BAPKTR-06-12	.197	.204/.209 #5	.050-.250 .187-.375 .375-.562 .562-.750	.890 .985 1.120 1.300	.445	.088	700	450	
		BAPKTR-08-04 BAPKTR-08-06	.242	.252/.262 F	.060-.250 .187-.375	.925 1.050	.560	.113	1250	700	
		90° COUNTERSUNK	BACKTR-06-06	.197	.204/.209 #5	.187-.375 .562-.750	.985 1.300	.335	.070	700	450

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

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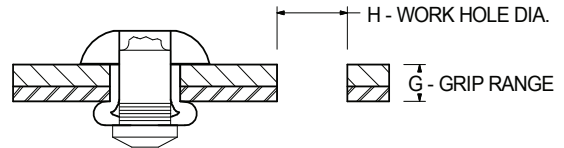
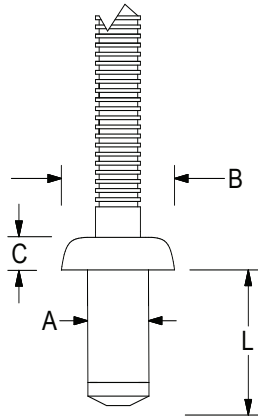
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HIGH STRENGTH BLIND RIVETS

HR RIVETS® offer high strength with a large blind-side footprint for use in thin sheet or brittle material applications. High clamp-up and excellent mandrel retention ensures a vibration resistant joint.



HR RIVETS

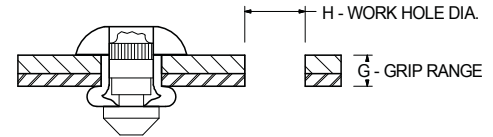
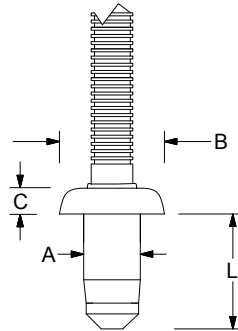
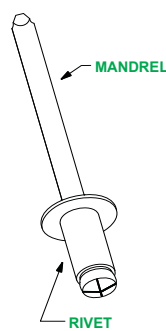
A SPECIAL NOSEPIECE IS REQUIRED FOR INSTALLATION OF THESE RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	BODY DIAMETER "A"	WORK HOLE AND DRILL SIZE "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER "B"	HEAD HEIGHT "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)	
									SHEAR	TENSILE
<p>STEEL MANDREL</p> <p>STEEL RIVET</p>	DOME HEAD	SD42HR SD43HR SD44HR	.124/.132	.133/.141	.036-.125 .125-.187 .187-.250	.315 .378 .440	.240/.263	.039/.051	325	382
		SD52HR SD53HR SD54HR	.155/.164	.165/.173	.063-.125 .125-.187 .187-.250	.354 .417 .480	.303/.326	.055/.066	449	584
		SD62HR SD63HR SD64HR SD65HR	.187/.195	.196/.212	.063-.125 .125-.187 .187-.250 .250-.312	.362 .425 .488 .551	.362/.396	.066/.082	696	764
		SD83HR SD85HR	.250/.259	.250/.258	.047-.187 .187-.312	.444 .570	.492/.531	.090/.106	876	1202
	LARGE FLANGE	SD62HRLF SD63HRLF SD64HRLF SD65HRLF	.187/.195	.196/.212	.063-.125 .125-.187 .187-.250 .250-.312	.362 .425 .488 .551	.606/.645	.070/.086	696	764
		SD83HRLF SD85HRLF	.250/.259	.250/.258	.047-.187 .187-.312	.444 .570	.610/.649	.110/.126	876	1202
	120° COUNTERSUNK	SK42HR SK43HR SK44HR	.124/.132	.133/.138	.078-.125 .125-.187 .187-.250	.315 .378 .440	.196/.220	.023/.039	213	269
		SH52HR SK54HR SK56HR	.155/.164	.165/.169	.078-.125 .125-.187 .187-.250	.354 .417 .480	.240/.263	.031/.047	292	449
		SK63HR SK64HR	.187/.195	.196/.205	.093-.187 .187-.250	.425 .488	.307/.338	.043/.059	696	764
		SSD42SSHR SSD43SSHR SSD44SSHR	.124/.132	.134/.142	.063-.126 .126-.189 .189-.252	.315 .378 .441	.240/.264	.039/.051	427	562
	DOME HEAD	SSD52SSHR SSD53SSHR SSD54SSHR	.155/.164	.165/.173	.063-.126 .126-.189 .189-.252	.354 .417 .480	.303/.327	.055/.066	630	855
		SSD62SSHR SSD63SSHR SSD64SSHR	.187/.195	.196/.212	.063-.125 .125-.187 .187-.250	.362 .425 .488	.362/.396	.066/.082	1056	1124
120° COUNTERSUNK	SSK42SSHR SSK43SSHR SSK44SSHR	.124/.132	.134/.142	.079-.125 .126-.189 .189-.252	.441 .504 .567	.196/.200	.023/.039	315	450	
	SSK63SSHR SSK64SSHR	.187/.195	.196/.205	.094-.187 .187-.250	.425 .488	.307/.388	.043/.059	831	1124	



HIGH STRENGTH BLIND RIVETS

Hemlok® Rivets offer high strength with a large blind-side footprint for use in thin sheet or brittle material applications. The mandrel has a mechanical lock and breaks close to flush with the rivet head.



Both Avibulb® and Avinox II® Rivets offer high strength with a large blind-side footprint for use in thin sheet or brittle material applications. High clamp-up and positive mandrel retention ensures a vibration resistant joint.

HEMLOK® STRUCTURAL RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)	
									SHEAR	TENSILE
STEEL RIVET STEEL MANDREL	PROTRUDING HEAD	2221-0812	.254/.258	.264/.272	.068-.138	.488-.539	.515	.105	3820	2090
		2221-0813			.110-.189	.539-.590				
		2221-0814			.132-.211	.561-.612				
		2221-0815			.189-.268	.618-.669				
		2221-0817			.268-.346	.696-.747				
		2221-0818			.295-.374	.724-.775				
		2221-0819			.346-.425	.775-.826				
ALUMINUM RIVET ALUMINUM MANDREL	PROTRUDING HEAD	2241-0812	.254/.258	.264/.272	.068-.138	.488-.539	.515	.105	1500	700
		2241-0813			.110-.189	.539-.590				
		2241-0814			.132-.211	.561-.612				
		2241-0815			.189-.268	.618-.669				
		2241-0817			.268-.346	.696-.747				
		2241-0818			.295-.374	.724-.775				
		2241-0819			.346-.425	.775-.826				
2241-0821	.425-.504	.854-.905								

AVIBULB® RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)		
									SHEAR		TENSILE
									STEM INSIDE SHEAR PLANE	STEM OUTSIDE SHEAR PLANE	
STEEL RIVET STEEL MANDREL	LO-PROFILE HEAD	OBN01-0408	.122/.130	.130/.134	.039-.118	.343	.248	.055	270	N/A	310
		OBN01-0411			.118-.197	.445			393		
		OBN01-0414			.197-.276	.535			562		
		OBN01-0509	.153/.160	.161/.169	.039-.118	.400	.303	.059	539		
					OBN01-0512	.118-.197			.480	787	
					OBN01-0516	.197-.276			.600	921	
		OBN01-00611	.185/.192	.193/.201	.059-.138	.480	.366	.059	809		
					OBN01-00614	.138-.236			.580	944	
					OBN01-00618	.236-.335			.700	1258	

AVINOX II® RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)		
									SHEAR		TENSILE
									STEM INSIDE SHEAR PLANE	STEM OUTSIDE SHEAR PLANE	
STAINLESS RIVET STAINLESS MANDREL	LO-PROFILE HEAD	OBE61-00408	.122/.130	.130/.134	.039-.118	.350	.248	.043	360	360	450
		OBE61-00411			.118-.197	.450			382		
		OBE61-00414			.197-.276	.540			719		
		OBE61-00509	.153/.160	.161/.169	.039-.118	.400	.303	.059	1169		
					OBE61-00512	.118-.197			.480	629	
					OBE61-00516	.197-.276			.600	899	
		OBE61-00611	.183/.191	.193/.201	.059-.138	.510	.366	.059	1236		
					OBE61-00614	.138-.236			.610	877	
					OBE61-00618	.236-.335			.730	1124	

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

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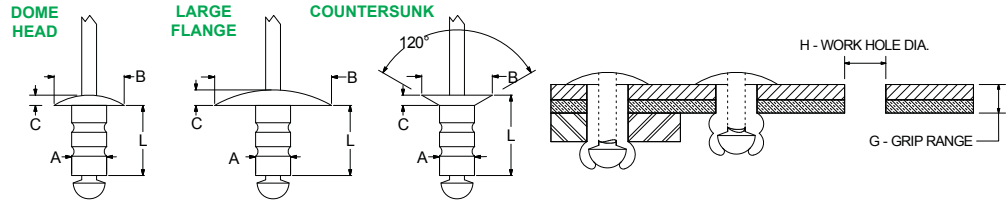
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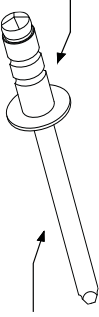
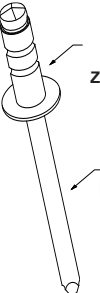
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MULTI-GRIP BLIND RIVETS

Multi-Grip Rivets have a wide grip range so one rivet can often take the place of 2 or 3 rivets thus reducing inventory and guess work. They also accommodate oversized holes and are vibration and moisture resistant.



RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	POP®	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BODY LENGTH "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)			
									SHEAR	TENSILE		
ALUMINUM RIVET PLAIN FINISH  STEEL MANDREL	DOME HEAD	AD41-43BS AD43-45BS AD45-47BS	.125 1/8	.130/.142	.039-.189 .157-.315 .251-.437	.328 .468 .609	250	.040	150	220		
		AD52-54BS AD53-55BS AD56-58BS	.156 5/32	.161/.173	.047-.252 .126-.312 .251-.500	.415 .500 .730	.312	.047	250	360		
		AD62-64BS AD63-66BS AD66-68BS AD68-612BS	.187 3/16	.193/.205	.063-.252 .187-.375 .252-.504 .437-.750	.440 .620 .731 1.065	.375	.055	350	505		
		AD82-86BS	.250 1/4	.257/.275	.080-.350	.615	.500	.073	460	560		
		AD41-43BSLF AD43-45BSLF	.125 1/8	.130/.142	.039-.189 .157-.315	.328 .468	.375	.052	150	220		
		AD52-54BSLF AD53-55BSLF	.156 5/32	.161/.173	.047-.252 .126-.312	.415 .500	468	.071	250	360		
	LARGE FLANGE	AD62-64BSLF AD66-68BSLF AD68-612BSLF	.187 3/16	.193/.205	.063-.252 .252-.504 .438-.750	.440 .731 1.065	.625	.083	350	505		
		120° COUNTERSUNK	AK41-44BS AK64-66BS AK66-68BS	.125 1/8 3/16	.130/.142 .193/.205	.039-.252 .126-.375 .251-.500	.328 .600 .731	.217 .348	.040 .055	150 350	220 505	
			DOME HEAD	AD41-43ABS AD43-45ABS AD45-47ABS	.125 1/8	.130/.142	.039-.189 .157-.312 .251-.437	.328 .468 .609	250	.040	65	85
		AD62-64ABS AD63-66ABS AD66-68ABS AD68-612ABS		.187 3/16	.193/.205	.063-.252 .188-.375 .252-.504 .437-.750	.440 .620 .731 1.065	.375	.055	145	205	
		LARGE FLANGE		AD41-43ABSLF AD62-64ABSLF AD63-66ABSLF AD68-612ABSLF	.125 1/8 3/16	.129/.142 .193/.205	.039-.187 .063-.252 .188-.375 .438-.750	.328 .440 .620 1.065	.375 .625	.052 .083	65 145	85 205
				DOME HEAD	AD56-58SSBS AD62-64SSBS AD63-66SSBS AD66-68SSBS AD68-612SSBS	.125 1/8 3/16	.161/.173 .193/.205	.376-.500 .062-.250 .188-.375 .251-.500 .438-.750	.730 .440 .620 .731 1.065	.312 .375	.047 .059	250 350
LARGE FLANGE	AD62-64SSBSLF AD64-68SSBSLF AD68-612SSBSLF	.187 3/16	.193/.205		.062-.250 .126-.500 .437-.750	.440 .731 1.065	.625	.083	350	505		
	120° COUNTERSUNK	AK64-66SSBS	.187 3/16		.193/.205	.126-.375	.600	.348	.055	350	505	
STEEL RIVET ZINC FINISH  STEEL MANDREL	DOME HEAD	MG21-03208-210 MG21-03212-210	.120/.129 1/8		.130/.134	.059-.197 .157-.315	.334 .492	.228/.260	.031/.047	270	360	
		MG21-04010-210 MG21-04016-210	.152/.160 5/32	.161/.165	.059-.256 .157-.472	.413 .649	.291/.327	.039/.055	370	540		
		MG21-04810-210 MG21-04816-210	.183/.192 3/16	.193/.197	.059-.236 .157-.433	.413 .649	.354/.386	.047/.063	607	719		
		LARGE FLANGE	MG22-03208-210 MG22-03212-210	.120/.129 1/8	.130/.134	.059-.197 .157-.315	.334 .492	.356/.395	.038/.058	270	360	
	MG22-04010-210 MG22-04016-210		.152/.160 5/32	.161/.165	.059-.256 .157-.472	.413 .649	.430/.489	.054/.070	370	540		
	MG22-04810-210 MG22-04816-210		.183/.192 3/16	.193/.197	.059-.236 .157-.433	.413 .649	.610/.650	.068/.084	607	719		

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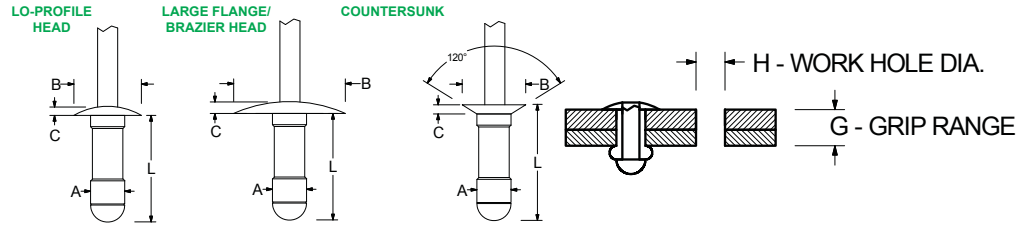
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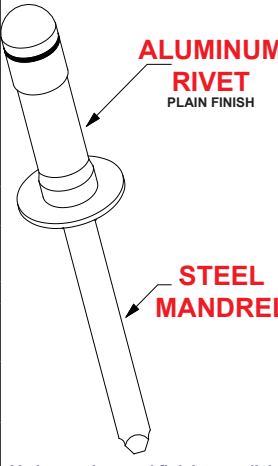


MULTI-GRIP BLIND RIVETS

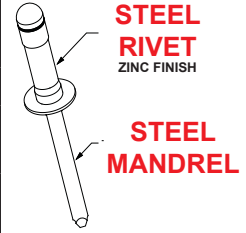
Avex® and Stavex® Multi-Grip rivets have a wide grip range so one rivet can often take the place of 2 or 3 rivets, thus reducing inventory and guess work. They also accommodate oversized holes and are vibration and moisture resistant.



AVEX® RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER SILVER COLOR MANDRELS (BEING DISCONTINUED)	PART NUMBER GOLD COLOR MANDRELS	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)		
										SHEAR	TENSILE	
 ALUMINUM RIVET PLAIN FINISH STEEL MANDREL Various colors and finishes available	LO-PROFILE HEAD	1661-0410	1691-0410	.121/.125	.132/.138	.031-.187	.410	.252	.051	165	230	
		1661-0414	1691-0414	.125-.312	.530	.187-.375	.590					
		1661-0416	1691-0416	.155/.160	.161/.166	.046-.250	.480					
		1661-0512	1691-0512	.125-.312	.540	.156-.375	.610					
		1661-0514	1691-0514	.062-.250	.550	.187-.437	.730					
		1661-0516	1691-0516	.250-.500	.780	.500-.781	1.090					
	BRAZIER HEAD	1661-0613	1691-0613	.185/.190	.194/.201	.062-.250	.550					
		1661-0619	1691-0619	.185/.190	.194/.201	.184-.437	.730	.472	.098	340	505	
		1661-0621	1691-0621	.250/.260	.261/.275	.080-.325	.660	.515	.105	700	400	
	LARGE FLANGE	1641-0410	1692-0410	.121/.125	.132/.138	.031-.187	.410	.325	.045	165	230	
		1641-0414	1692-0414	.125-.312	.530	.125-.312	.540	.375	.058	255	375	
		1641-0514	1692-0514	.062-.250	.550	.125-.312	.540	.375	.058	255	375	
		1641-0613	1692-0613	.250-.500	.780	.062-.250	.550	.625	.075	350	530	
	120° COUNTERSUNK	1641-0621	1692-0621	.185/.190	.194/.201	.250-.500	.780	.625	.075	350	530	
		1641-0631	1692-0631	.500-.781	1.09	.093-.250	.470	.207	.050	155	205	
1604-0412		1682-0412	.121/.125	.132/.138	.155-.312	.530	.207	.050	155	205		
1604-0414		1682-0414	.132/.138	.132/.138	.217-.375	.600	.247	.052	225	300		
1604-0416		1682-0416	.155/.160	.161/.166	.109-.312	.550	.347	.069	350	530		
ALUMINUM RIVET STAINLESS MANDREL	LO-PROFILE HEAD	1604-0514	1682-0514	.121/.125	.132/.138	.171-.375	.610	.247	.052	225	300	
		1604-0516	1682-0516	.125-.312	.530	.125-.312	.540	.347	.069	350	530	
		1604-0615	1682-0615	.250-.500	.780	.062-.250	.550	.347	.069	350	530	
	LARGE FLANGE	1604-0621	1682-0621	.185/.190	.194/.201	.250-.500	.780	.625	.075	345	525	
		1604-0631	1682-0631	.500-.781	1.09	.062-.250	.550	.625	.075	345	525	
		1667-0621	1682-0621	.250-.500	.780	.062-.250	.550	.347	.069	345	525	
STEEL RIVET STEEL MANDREL	LO-PROFILE HEAD	1624-0411		.124/.128	.132/.138	.044-.156	.450	.285	.047	300	385	
		1624-0514		.157/.160	.161/.166	.056-.196	.540	.320	.062	440	530	
		1624-0612		.188/.191	.194/.201	.047-.187	.550	.385	.084	810	750	
		1624-0616		.156-.250	.640	.156-.250	.640	.385	.084	1025	780	

STAVEX® RIVETS

RIVET MATERIAL MANDREL MATERIAL	HEAD STYLE	PART NUMBER	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BODY LENGTH (MAX.) "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT (MAX.) "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)				
									SHEAR		TENSILE		
									STEM INSIDE SHEAR PLANE	STEM OUTSIDE SHEAR PLANE			
 STEEL RIVET ZINC FINISH STEEL MANDREL	LO-PROFILE HEAD	OBS01-0614	.183/.187	.192/.196	.045-.250	.540	.387	.061	950	450	650		
		OBS01-0618										.060-.375	.670
		OBS01-0622										.250-.500	.790
	1610-4844	.250/.260	.261/.275	.060-.300	.660	.515	.105	1500	700	800			
	LARGE FLANGE	OBE34-0614	.183/.187	.192/.196	.045-.250	.540	.621	.081	950	450	650		
		OBE34-0618										.060-.375	.670
OBE34-0622		.250-.500										.790	
120° COUNTERSUNK	OBS04-0614	.183/.187	.192/.196	.045-.250	.540	.347	.055	950	450	650			
	OBS04-0618										.060-.375	.670	
	OBS04-0622										.250-.500	.790	

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

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See pages C43-C46 for
installation tools

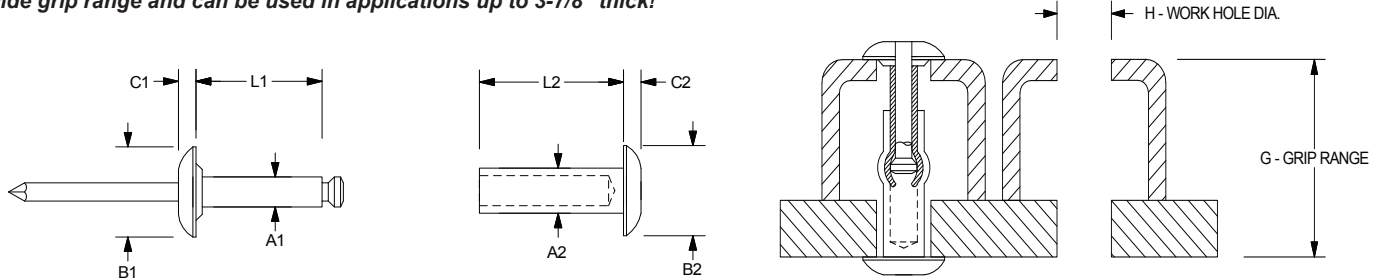
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"MATE" RIVETS

Mate Rivets are a 2 piece fastener. Access to both sides of the work is required, however it does not require close tolerance holes. The Tubular Component is inserted from one side and the Rivet is inserted from the other. When set, the Rivet expands inside the Tubular Component and clamps tightly and securely without crushing the parent material. This fastener has a very wide grip range and can be used in applications up to 3-7/8" thick!



NOMINAL DIAMETER	PART NUMBERS						GRIP RANGE	RIVET BODY LENGTH (MAX.)	TUBULAR COMPONENT BODY LENGTH (MAX.)
	ALUMINUM RIVET ALUMINUM MANDREL		STEEL RIVET STEEL MANDREL		ALUMINUM RIVET STEEL MANDREL				
	PART NUMBER	Avdel®	PART NUMBER	Avdel®	PART NUMBER	Avdel®			
3/16"	CM-AAA612	BALMS-06BP-12	CM-SSS612	SSLMS-06SP-12	CM-ASA612	BSLMS-06BP-12	.625-.750	.525	.585
	CM-AAA614	BALMS-06BP-14	CM-SSS614	SSLMS-06SP-14	CM-ASA614	BSLMS-06BP-14	.687-.875		.647
	CM-AAA617	BALMS-06BP-17	CM-SSS617	SSLMS-06SP-17	CM-ASA617	BSLMS-06BP-17	.875-1.062		.825
	CM-AAA620	BALMS-06BP-20	CM-SSS620	SSLMS-06SP-20	CM-ASA620	BSLMS-06BP-20	1.062-1.250		1.012
	CM-AAA623	BALMS-06BP-23	CM-SSS623	SSLMS-06SP-23	CM-ASA623	BSLMS-06BP-23	1.250-1.437		1.200
	CM-AAA626	BALMS-06BP-26	CM-SSS626	SSLMS-06SP-26	CM-ASA626	BSLMS-06BP-26	1.437-1.625		1.387
	CM-AAA629	BALMS-06BP-29	CM-SSS629	SSLMS-06SP-29	CM-ASA629	BSLMS-06BP-29	1.625-1.812		1.575
	CM-AAA632	BALMS-06BP-32	CM-SSS632	SSLMS-06SP-32	CM-ASA632	BSLMS-06BP-32	1.812-2.000		1.762
	CM-AAA635	BALMS-06BP-35	CM-SSS635	SSLMS-06SP-35	CM-ASA635	BSLMS-06BP-35	2.000-2.187		1.950
	CM-AAA638	BALMS-06BP-38	CM-SSS638	SSLMS-06SP-38	CM-ASA638	BSLMS-06BP-38	2.187-2.375		2.137
TYPICAL TENSILE STRENGTH	NOT RATED								

1/4"	CM-AAA812	BALMS-08BP-12	CM-SSS812	SSLMS-08SP-12	CM-ASA812	BSLMS-08BP-12	.625-.750	.454	.580	
	CM-AAA814	BALMS-08BP-14	CM-SSS814	SSLMS-08SP-14	CM-ASA814	BSLMS-08BP-14	.750-.875	.608	.695	
	CM-AAA818	BALMS-08BP-18	CM-SSS818	SSLMS-08SP-18	CM-ASA818	BSLMS-08BP-18	.875-1.125	.608	.820	
	CM-AAA822	BALMS-08BP-22	CM-SSS822	SSLMS-08SP-22	CM-ASA822	BSLMS-08BP-22	1.125-1.375	.608	1.070	
	CM-AAA826	BALMS-08BP-26	CM-SSS826	SSLMS-08SP-26	CM-ASA826	BSLMS-08BP-26	1.375-1.625	.608	1.320	
	CM-AAA830	BALMS-08BP-30	CM-SSS830	SSLMS-08SP-30	CM-ASA830	BSLMS-08BP-30	1.625-1.875	.608	1.570	
	CM-AAA834	BALMS-08BP-34	CM-SSS834	SSLMS-08SP-34	CM-ASA834	BSLMS-08BP-34	1.875-2.125	.608	1.820	
	CM-AAA838	BALMS-08BP-38	CM-SSS838	SSLMS-08SP-38	CM-ASA838	BSLMS-08BP-38	2.125-2.375	.608	2.070	
	CM-AAA842	BALMS-08BP-42	CM-SSS842	SSLMS-08SP-42	CM-ASA842	BSLMS-08BP-42	2.375-2.625	.608	2.320	
	CM-AAA846	BALMS-08BP-46	CM-SSS846	SSLMS-08SP-46	CM-ASA846	BSLMS-08BP-46	2.625-2.875	.608	2.570	
	CM-AAA850	BALMS-08BP-50	CM-SSS850	SSLMS-08SP-50	CM-ASA850	BSLMS-08BP-50	2.875-3.125	.608	2.820	
	CM-AAA854	BALMS-08BP-54	CM-SSS854	SSLMS-08SP-54	CM-ASA854	BSLMS-08BP-54	3.125-3.375	.608	3.070	
	CM-AAA858	BALMS-08BP-58	CM-SSS858	SSLMS-08SP-58	CM-ASA858	BSLMS-08BP-58	3.375-3.625	.608	3.320	
	CM-AAA862	BALMS-08BP-62	CM-SSS862	SSLMS-08SP-62	CM-ASA862	BSLMS-08BP-62	3.625-3.875	.608	3.570	
	TYPICAL TENSILE STRENGTH	250 LBS.		350 LBS.		450 LBS.				

NOMINAL DIAMETER	WORK HOLE DIAMETER "H"	BLIND RIVET			TUBULAR COMPONENT		
		BODY DIAMETER "A1"	HEAD DIAMETER "B1"	HEAD HEIGHT "C1"	BODY DIAMETER "A2"	HEAD DIAMETER "B2"	HEAD HEIGHT "C2"
3/16"	.250	.125	.375	.059	.188	.375	.057
1/4"	.312	.187	.625	.095	.250	.625	.095

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BLIND RIVET HAND TOOLS & KITS

<p>PS-10 LIGHT DUTY HAND TOOL PS-15 HEAVY DUTY HAND TOOL Capacity: up to 3/16" diameter: Aluminum / Steel open end blind rivets Nose Pieces Included: 3/32", 1/8", 5/32", & 3/16"</p>	<p>PRP-26A HEAVY DUTY HAND TOOL FOR TIGHT SPOTS Capacity: up to 5/32" diameter: Aluminum open end blind rivets Nose Pieces Included: 1/8"</p>	<p>EXTRA POWERFUL HAND TOOLS WORKS LIKE A BOLT CUTTER Powerlink Leverlite: for up to 1/4" dia. Stainless open end rivets with 1/8", 5/32", 3/16", 1/4" & 1/4" T-RIVET nose pieces Model PS-40: for up to 1/4" dia. Aluminum open end rivets with 1/8", 5/32", 3/16" & 1/4" nose pieces Model PS-45: for up to 1/4" dia. Stainless open end rivets with 1/8", 5/32", 3/16", 1/4" nose pieces</p>
<p>LIMITED SPACE HAND TOOL Model PS-20: for up to 1/4" dia. Alum/Steel open end rivets with 1/8", 5/32", 3/16" & 1/4" nose pieces Model PS-25: for up to 1/4" dia. Stainless open end rivets with 1/8", 5/32", 3/16" & 1/4" nose pieces</p>	<p>RiveDrill HAND DRILL ACCESSORY EASILY CONVERT A CORDLESS, ELECTRIC OR PNEUMATIC REVERSIBLE DRILL INTO A POWER BLIND RIVET GUN Model RT-110: for 1/8" to 3/16" Aluminum or 5/32" Steel or 1/8" Stainless open end rivets - with 1/8", 5/32" & 3/16" nose pieces Model RT-120HP: for 1/8" to 1/4" Aluminum or 3/16" Steel open end rivets - with 1/8", 5/32", 3/16" & 1/4" nose pieces</p>	<p>PL-30-MRO REPAIR KIT Perfect for prototype, development and maintenance work. Contains a PL-30 hand tool, a selection of 5 popular POP® rivets, & backup washers for 1/8" & 3/16" diameter rivets.</p>
<p>-BRK-500RD POP RIVET R & D KIT A practical assortment of POP® rivets.</p>	<p>BRK-400A MAINTENANCE RIVET KIT Includes 12 popular sizes of POP® rivets for a wide range of maintenance and repair work.</p>	<p>BRK-300SS SALT WATER MARINE KIT Contains an assortment of Stainless Steel POP® rivets for salt water maintenance and repair.</p>

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BLIND RIVET POWER TOOLS

<p>PL-1600 & PL-1600-MCS ProSet AIR-HYDRAULIC TOOL OUR SMALLEST AND LIGHTEST POWER TOOL! Capacity: up to 5/32 Steel and 1/8" Stainless standard open end blind rivets Weight: 2.14 / 2.29 lbs - Pulling Force: 1,090 W - Stroke: .71" Standard Nose Pieces Included: 3/32", 1/8" & 5/32"</p>	<p>PRG-510A & MCS-510A PNEUMATIC TOOL OUR MOST POPULAR TOOL! Capacity: up to 3/16" diameter: Aluminum / Steel standard open end blind rivets Weight: 4 lbs. - Pulling Force: 1,000 lbs. - Stroke: .590" Standard Nose Pieces Included: 1/8", 5/32" & 3/16"</p>	<p>PRG-511A & MCS-511A PNEUMATIC TOOL LONG NOSE TOOL Capacity: up to 3/16" diameter: Aluminum / Steel standard open end blind rivets Weight: 4 lbs. - Pulling Force: 1,000 lbs. - Stroke: .590" Standard Nose Pieces Included: 1/8", 5/32" & 3/16"</p>
<p>PS-2500 & PS-2500-MCS ProSet AIR-HYDRAULIC TOOL ULTRA LIGHT WEIGHT & POWERFUL Capacity: up to 3/16" diameter: All materials standard, structural & closed end blind rivets Weight: 2.65 / 2.89 lbs - Pulling Force: 2,110 lbs - Stroke: .71" Standard Nose Pieces Included: 1/8", 5/32" & 3/16"</p>	<p>PRG-540 & MCS-540 AIR-HYDRAULIC TOOL HEAVY DUTY PRODUCTION TOOL Capacity: up to 1/4" diameter: All materials standard open & closed end blind rivets Weight: 4.5 lbs. - Pulling Force: 3,000 lbs. - Stroke: .630" Standard Nose Pieces Included: 1/8", 5/32", 3/16" & 1/4"</p>	<p>PRT-5400 (LS) & MCS-5400 (LS) AIR-HYDRAULIC TOOL POWERFUL STANDARD & LONG STROKE MODELS Capacity: up to 1/4" diameter: All materials standard, structural & closed end blind rivets WT: 4.63 lbs.-Pulling Force: 3,400 lbs.-Stroke: .708/1.024 Standard Nose Pieces included: 1/8", 5/32", 3/16" & 1/4"</p>
<p>PRT-5250A & MCS-5250A AIR-HYDRAULIC TOOL</p> <p>POWERFUL IN-LINE VERTICAL RIVETING TOOL</p> <p>Hang it from a balancer!</p> <p>The MCS model has a very large capacity remote mandrel collection container (shown below).</p> <p>Capacity: up to 3/16" diameter: All materials standard open end blind rivets</p> <p>Weight: 3.9 lbs. Pulling Force: 1,700 lbs. Stroke: .630"</p> <p>Standard Nose Pieces Included: 1/8", 5/32" & 3/16"</p>	<p>CORDLESS RECHARGEABLE TOOLS COMPLETE WITH CARRYING CASE, BATTERY & CHARGER</p> <p>ACCUBIRD Capacity: up to 3/16" diameter: Stainless std. open end rivets Weight: 4 lbs. - Pulling Force: 1,000 lbs. - Stroke: .790" Nose Pieces: 3/32, 1/8, 5/32, 3/16 Battery life: 400 to 1,900 rivets</p> <p>POWER-BIRD Capacity: up to 1/4" diameter: Stainless std. open end rivets Weight: 4.8 lbs. - Pulling Force: 2,900 lbs. - Stroke: .790" Nose Pieces: 3/16" & 1/4" Battery life: 80 to 350 rivets</p>	<p>ER-300N ELECTRIC TOOL COMPLETE WITH CARRYING CASE Capacity: up to 3/16" diameter: Stainless standard open end blind rivets Weight: 6 lbs. - Pulling Force: 1,870 lbs. - Stroke: Infinite Standard Nose Pieces Included: 3/32", 1/8", 5/32" & 3/16"</p>

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BLIND RIVET POWER TOOLS

PULLING HEADS adapt to standard POP® Rivet Power Tools on page C44 for special job requirements. They make it possible to install rivets in limited-access areas. When ordering please include both Pulling Head and required Adaptor catalog numbers.

PRH-830 MIDGET CORNER HEAD

Ultra-light head for 90 degree riveting applications. For use on the following tools:
PRG-510A (adaptor PRA-967), PS-2100 (adaptor PRA-985-2100),
PS-2500 (adaptor PRH-830-2500), PRT-5200 (adaptor PRA-985), or PRG-540 (adaptor PRA-965).

PRH-840 MEDIUM DUTY CORNER HEAD

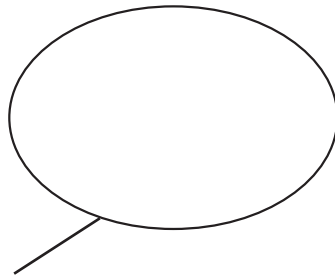
Medium duty head for 90 degree riveting applications. For use on the following tools:
PRG-510A (adaptor PRH-840-510), PS-2100 (adaptor PRH-840-2100),
PS-2500 (adaptor PRH-840-200), PRT-5200 (adaptor PRH-840-5200),
or PRG-540 (adaptor PRH-840-540).

PRH-850 HEAVY DUTY CORNER HEAD

Similar to PRH-830 and 840 except designed for heavy duty use. For use on the following tools: PRG-540 (adaptor PRH-850-540), or PRT-5400 (adaptor PRH-850-5400).

A-1 OFFSET HEAD

For applications where rivet is installed close to a vertical angle. For use on the following tools:
PRG-510A (adaptor PRA-967), PS-2100 (adaptor PRA-985-2100),
PRT-5200 (adaptor PRA-985), or PRG-540 (adaptor PRA-965).
Specify rivet type, size and material when ordering for proper set-up.



"MCS" MANDREL COLLECTION SYSTEM

Power tools that begin with MCS in their part number are equipped with the Mandrel Collection System. The MCS system draws the spent mandrels into a collection chamber on the back of the tool (pictured above) by use of a vacuum. This also holds a rivet in the tool at any angle while placing the rivet in the work. This keeps your products safe from contamination and shop floors clean and safe.

PRG510-130 JAW LUBE

Use Jaw Lube regularly to clean and lubricate the moving parts in the nose of your air powered rivet tools. This will help reduce wear and extend jaw life!

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POP® RIVET FEEDING SYSTEMS

The **AutoSet™** is a State-of-the-art portable hand-held riveting system featuring pre-loaded **POP®** brand rivets on tape with an auto-feed riveting system. The result is an immediate increase in productivity as well as decreased in-place installation cost.

The **AutoSet™** has a highly engineered one-touch cycle mechanism that allows one hand free to hold work pieces in place. The built-in Mandrel Collection System (MCS) results in and contributes to work place safety and cleanliness.

Featured with an innovative, adjustable vacuum system, the **AutoSet™** can be adjusted to meet your specific needs dependent upon the size of the rivet used in order to minimize air consumption. Targeted for middle to high volume applications, this fully portable, ergonomically balanced tool can be suspended both horizontally and vertically.

AutoSet™ is capable of setting 1/8" up to 3/16" diameter aluminum rivets.

Features & Benefits:

- Auto-feed
 - **POP®** brand pre-loaded rivets on tape
- Quick operation
 - Reload time: 8-10 seconds
 - Cycle time: 2 seconds
- Easy to use
 - One-touch cycle
 - Built-in MCS
 - Adjustable vacuum
- Portable
 - Frees up one hand
 - Ergonomically weight balanced
- Reliable
 - Three jaw system
 - Less maintenance required

AutoSet™

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POP® RIVET FEEDING SYSTEMS

POP® RIVET PRESENTERS

An easy-to-use riveting system for medium to high volume riveting applications. This unique system offers labor savings by freeing up one of the operators hands! Simply place the nose of the tool into the receptacle and the Presenter automatically feeds a rivet into the tool ready for placement in your work piece, all done with one hand. Set up to 30 rivets per minute!

BENCH TOP RIVET PRESENTER

<u>Model</u>	<u>Rivet Body Diameter</u>
RP-4	1/8"
RP-5	5/32"
RP-6	3/16"



↑
REMOTE TOOL
RECEPTACLE

REMOTE RIVET PRESENTER

<u>Model</u>	<u>Rivet Body Diameter</u>
RPR-4	1/8"
RPR-5	5/32"
RPR-6	3/16"
RPR-8	1/4"

"POINT & SET" AUTO FEED RIVETING SYSTEM

The easiest and fastest way to install POP® rivets for high volume users. Simply load standard POP® blind rivets into the base unit and start riveting. The external feed and front load system is forgiving of minor variations from rivet to rivet to eliminate jams. Available in pistol grip and in-line configurations.

Available for up to 3/16" diameter POP® rivets.

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AVDEL® & CHERRY® RIVET TOOLS

<p>G-28 HEAVY DUTY HAND TOOL Capacity: 3/32" to 3/16" diameter: Aluminum/Steel standard open end blind rivets Standard Nose Pieces Included: 1/8" & 3/16"</p>	<p>NG1 AIR-HYDRAULIC TOOL Capacity: 3/32" to 3/16" diameter Aluminum / Steel and 5/32" diameter All Steel standard open end blind rivets Weight: 3.75 lbs. - Pulling Force: 1,350 lbs. - Stroke: .551" Standard Nose Pieces Included: 1/8", 5/32" & 3/16"</p>	<p>NG2 AIR-HYDRAULIC TOOL Capacity: 1/8" to 3/16" diameter: All materials standard open end and structural blind rivets Weight: 4.67 lbs. - Pulling Force: 2,100 lbs. - Stroke: .670" Standard Nose Pieces Included: 1/8", 5/32" & 3/16"</p>
<p>NG3 AIR-HYDRAULIC TOOL Capacity: 1/8" to 1/4" diameter: All materials of standard open end and structural blind rivets Weight: 5.07 lbs. - Pulling Force: 2,900 lbs. - Stroke: 1.02" Specify fastener when ordering for proper set-up</p>	<p>NG4 AIR-HYDRAULIC TOOL Capacity: 1/8" to 1/4" diameter: All materials of standard open end and structural blind rivets Also 3/16" & 1/4" diameter Maxlok lockbolts Weight: 5.2 lbs. - Pulling Force: 4,200 lbs. - Stroke: .670" Specify fastener when ordering for proper set-up</p>	<p>GH702 AIR-HYDRAULIC TOOL Capacity: 3/32" to 3/16" diameter: Aluminum / Steel standard open end blind rivets Weight: 4.75 lbs. - Pulling Force: 2,000 lbs. - Stroke: .750" Standard Nose Pieces Included: 1/8" & 3/16"</p>
<p>GH703 AIR-HYDRAULIC TOOL Capacity: 3/32" to 1/4" diameter: Aluminum / Steel standard open end blind rivets Weight: 4.75 lbs. - Pulling Force: 2,000 lbs. - Stroke: .750" Standard Nose Pieces Included: 1/8" & 3/16"</p>	<p>GHA743 AIR-HYDRAULIC TOOL Capacity: 3/32" to 1/4" diameter: all materials of standard open end blind rivets Weight: 6.25 lbs. - Pulling Force: 3,600 lbs. - Stroke: .750" Standard Nose Pieces Included: 3/16" & 1/4"</p>	<p>GH780 PNEUMATIC TOOL Capacity: 3/32" to 3/16" diameter: Aluminum / Steel standard open end blind rivets Weight: 3 lbs. - Pulling Force: 1,000 lbs. - Stroke: 1.125" Standard Nose Pieces Included: 1/8" & 3/16"</p>

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Pacoima, CA 91331

Phone: 818-485-0500

FAX: 818-485-0540

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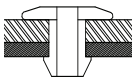
SPEED FASTENING® SYSTEMS

**AUTOMATIC FEED
SPEED FASTENING TOOL**
INSTALLS RIVETS UP TO 1,500 PCS PER HOUR

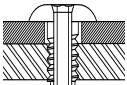
**RIVETS COME PRE-LOADED IN PAPER TAPE.
SIMPLY LOAD THE TOOL AND START RIVETING!**

<p>7537 AIR HYDRAULIC HAND TOOL WITH INTEGRATED INTENSIFIER</p>	<p>753 AIR HYDRAULIC HAND TOOL GUN WEIGHS ONLY TWO POUNDS</p>	<p>PANTOGRAPH WORKSTATION TOP-DOWN RIVET PLACEMENT</p>	<p>HYDRA BENCH MOUNT FOOT PEDAL OPERATED BOTTOM-UP RIVET PLACEMENT</p>
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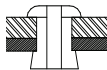
BRIV®
For assembly of sheet metal where high clamp is required



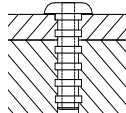
RIVSCREW®
Removable and reusable, for rapid assembly of electronic components



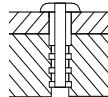
CHOBERT®
For assembly of lightweight fabrications where controlled light clamp is required



AVTRONIC®
For rapid attachment of connectors, card ejectors and brackets to PCB's



GROVIT®
For fast assembly of wood, aluminum alloy, plastics and fiberglass



HOW THEY WORK

1



RIVET
PLACED
IN WORK

2



RIVET
SET

3



NEXT
RIVET
LOADS

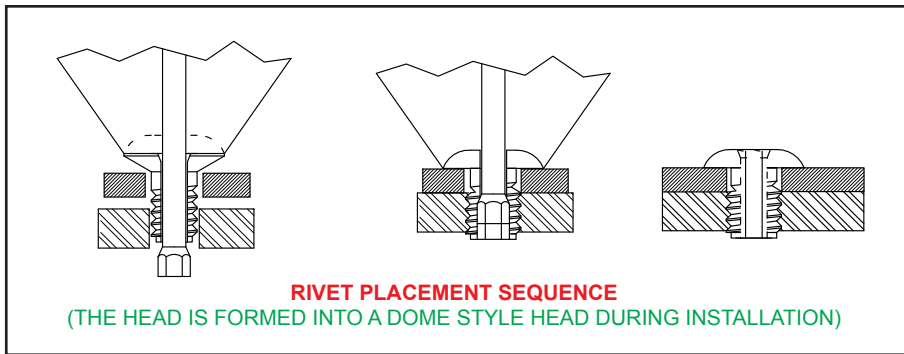
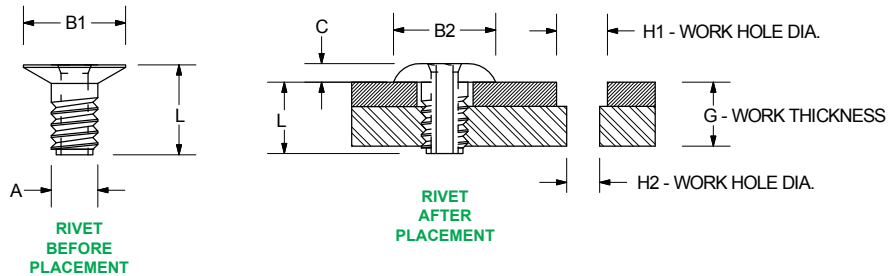
ALL DONE WITH ONE PULL OF THE TRIGGER!

See page C49 for
installation tools



RIVSCREW® SPEED FASTENING®

RIVSCREW® Speed Fasteners are **removable and reusable**, for rapid assembly of electronic components.



PART NUMBER PREFIXES FOR OTHER FINISHES:
01722 - ZINC, GOLD PASS.
01723 - HOT TIN DIPPED
01724 - ZINC, BLACK PASS.
01725 - ZINC, MOLYBDENUM LUBE

BODY DIAMETER "A"	WORK HOLE DIAMETER		PART NUMBER FOR STEEL YELLOW ZINC FINISH SEE ABOVE FOR OTHER FINISHES	RECOMMENDED WORK THICKNESS "G"	BODY LENGTH (MAX.) "L"		HEAD DIAMETER BEFORE PLACEMENT "B1"	HEAD DIAMETER AFTER PLACEMENT "B2"	HEAD HEIGHT AFTER PLACEMENT "C"	HEX KEY SIZE ACROSS FLATS AFTER PLACEMENT "F"
	"H1" FRONT SHEET	"H2" BACK SHEET			BEFORE	AFTER				
3/32 (.102") 2.8MM	.116-.119	.103-.106	01722-02806	.112	.202	.157	.215-.230	.240	.055	1/16
			01722-02807	.151	.241	.196				
			01722-02809	.190	.280	.235				
			01722-02810	.229	.319	.274				
			01722-02812	.307	.397	.352				
1/8 (.110") 3.0MM	.121-.124	.111-.114	01722-03006	.112	.202	.157	.215-.230	.240	.055	1/16
			01722-03007	.151	.241	.196				
			01722-03009	.190	.280	.235				
			01722-03010	.229	.319	.274				
			01722-03011	.268	.359	.314				
			01722-03012	.307	.397	.352				
9/64 (.121") 3.5MM	.138-.141	.122-.125	01722-03506	.112	.202	.157	.220-.235	.240	.055	5/64
			01722-03507	.151	.241	.196				
			01722-03509	.190	.280	.235				
			01722-03510	.229	.319	.274				
			01722-03511	.268	.359	.314				
			01722-03512	.307	.397	.352				
5/32 (.141") 4.0MM	.165-.168	.142-.145	01722-04006	.112	.202	.157	.230-.245	.250	.055	2.55MM
			01722-04007	.151	.241	.196				
			01722-04009	.190	.280	.235				
			01722-04010	.229	.319	.274				
			01722-04011	.268	.359	.314				
			01722-04012	.307	.397	.352				
			01722-04015	.385	.475	.430				

HANSON RIVET

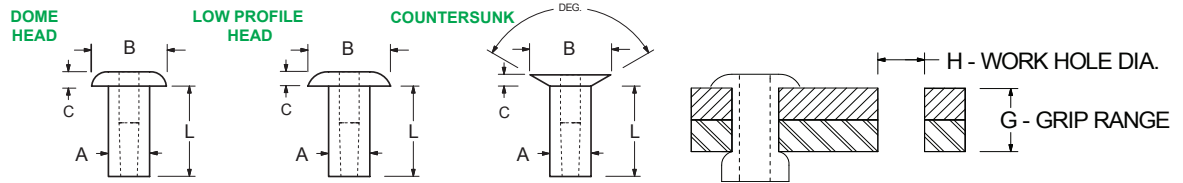
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See page C49 for
installation tools

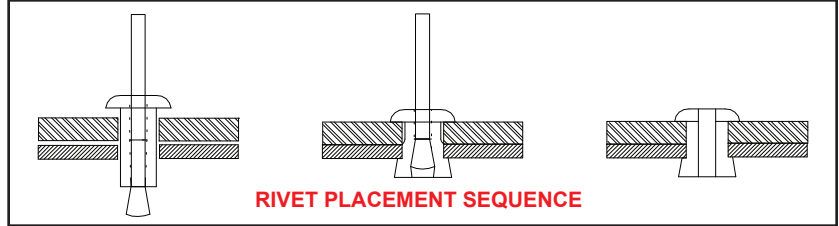
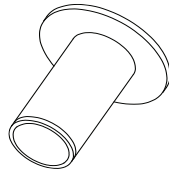
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MasterCard CHOBERT® SPEED FASTENING® RIVETS



CHOBERT® Speed Fasteners are for assembly of lightweight fabrications where controlled light clamp is required.



BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "C"	BODY LENGTH (MAX) "L"	DOME HEAD			HEAD SIZE	LOW PROFILE HEAD		COUNTERSUNK HEAD			HEAD SIZE	
				STEEL	ALUMINUM	BRASS		ALUMINUM	HEAD SIZE	STEEL	ALUMINUM	BRASS		
3/32 .0935-.097	.098-.100	.000-.062	.125		01131-00304	01141-00304	DIAMETER "B" .149-.163 HEIGHT "C" .025-.037			01122-00304	01132-00304	01142-00304	100° DIAMETER (NOM.) "B" .164 HEIGHT (NOM.) "C" .036	
		.062-.125	.187		01131-00306	01141-00306				01122-00306	01132-00306	01142-00306		
		.125-.187	.250		01131-00308	01141-00308				01122-00308	01132-00308	01142-00308		
		.187-.250	.312		01131-00310					01122-00310	01132-00310	01142-00310		
		.250-.312	.375		01131-00312	01141-00312								
		.312-.375	.437		01131-00314									
		.375-.437	.500		01131-00316									
1/8 .124-.128	.129-.132	.000-.062	.125	01121-00404	01125-00404	01141-00404	DIAMETER "B" .193-.217 HEIGHT "C" .033-.045	01162-00404	DIAMETER "B" .243-.262 HEIGHT "C" .034-.041	01122-00404	01132-00404	01142-00404	120° DIAMETER "B" .205-.215 HEIGHT (NOM.) "C" .030	
		.031-.093	.157	01121-00405				01162-00406		01122-00406	01132-00406	01142-00406		
		.062-.125	.187	01121-00406	01125-00406	01141-00406		01162-00408		01122-00408	01132-00408	01142-00408		
		.125-.187	.250	01121-00408	01125-00408	01141-00408		01162-00410		01122-00410	01132-00410	01142-00410		
		.187-.250	.312	01121-00410	01125-00410	01141-00410		01162-00412		01122-00412	01132-00412	01142-00412		
		.250-.312	.375	01121-00412	01125-00412			01162-00414						
		.312-.375	.437		01125-00414									
.375-.437	.503													
5/32 .156-.159	.161-.164	.062-.125	.187	01121-00506	01125-00506		DIAMETER "B" .235-.257 HEIGHT "C" .047-.057			01122-00506	01132-00506	01142-00506	120° DIAMETER "B" .205-.215 HEIGHT (NOM.) "C" .032	
		.125-.187	.250	01121-00508	01125-00508					01122-00508	01132-00508	01142-00508		
		.187-.250	.312	01121-00510	01125-00510					01122-00510	01132-00510	01142-00510		
		.250-.312	.375	01121-00512	01125-00512					01122-00512	01132-00512	01142-00512		
		.312-.375	.437	01121-00514	01125-00514					01122-00514	01132-00514	01142-00514		
		.375-.437	.503	01121-00516	01125-00516					01122-00516	01132-00516	01142-00516		
		.437-.500	.567		01125-00518									
.500-.563	.630		01125-00520											
3/16 .185-.191	.191-.194	.000-.062	.157	01121-00605	01125-00605		DIAMETER "B" .329-.349 HEIGHT "C" .060-.070						120° DIAMETER "B" .339-.349 HEIGHT (NOM.) "C" .050	
		.062-.125	.291	01121-00607	01125-00607					01122-00607	01132-00607	01142-00607		
		.125-.187	.281	01121-00609	01125-00609					01122-00609	01132-00609	01142-00609		
		.187-.250	.344	01121-00611	01125-00611					01122-00611	01132-00611	01142-00611		
		.250-.312	.409	01121-00613	01125-00613					01122-00613	01132-00613	01142-00613		
		.312-.375	.479	01121-00615	01125-00615					01122-00615	01132-00615	01142-00615		
		.375-.437	.531	01121-00617	01125-00617					01122-00617	01132-00617	01142-00617		
.437-.500	.594	01121-00619	01125-00619				01122-00619	01132-00619	01142-00619					
1/4 .244-.248	.250-.253	.125-.187	.281	01121-00809	01131-00809		DIAMETER "B" .389-.413 HEIGHT "C" .072-.084			01122-00809	01132-00809	01142-00809	120° DIAMETER "B" .401-.411 HEIGHT (NOM.) "C" .051	
		.187-.250	.344	01121-00811	01131-00811					01122-00811	01132-00811	01142-00811		
		.250-.312	.406	01121-00813	01131-00813					01122-00813	01132-00813	01142-00813		
		.312-.375	.473	01121-00815	01131-00815					01122-00815	01132-00815	01142-00815		
		.375-.437	.531	01121-00817	01131-00817					01122-00817	01132-00817	01142-00817		
		.437-.500	.594	01121-00819	01131-00819					01122-00819	01132-00819	01142-00819		
		.500-.562	.657		01131-00821					01122-00821	01132-00821	01142-00821		
.562-.625	.720		01131-00823				01122-00823	01132-00823	01142-00823					
.625-.687	.783		01131-00825				01122-00825	01132-00825	01142-00825					

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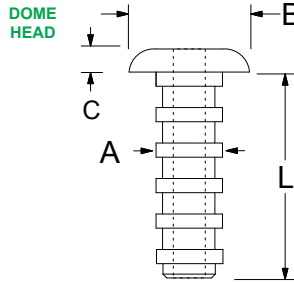
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SPEED FASTENING® RIVETS

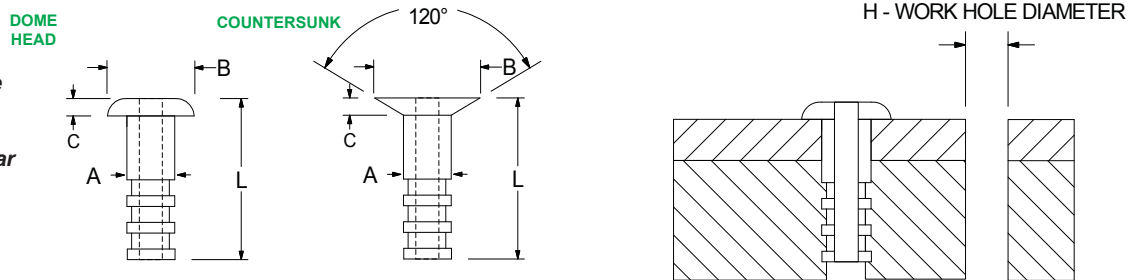
Avtronic® Speed Fasteners provide superior attachment of through hole or surface mount connectors to printed circuit boards without the risk of cracking brittle connector material.



AVTRONIC® SPEED FASTENER

BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	BODY LENGTH (MAX) "L"	BRASS TIN PLATED	ALUMINUM PLAIN FINISH	HEAD DIAMETER "B"	HEAD HEIGHT "C"
2.5MM .091-.096	.098-.102	.204	01188-02506	01189-02506	.149-.163	.021-.037
		.267	01188-02508	01189-02508		
		.329	01188-02510	01189-02510		
		.392	01188-02512	01189-02512		
		.454	01188-02514	01189-02514		
		.517	01188-02516	01189-02516		
		.579	01188-02518	01189-02518		
		.642	01188-02520	01189-02520		
		.704	01188-02522	01189-02522		
		2.8MM .101-.108	.110-.114	.204		
.267	01188-02808			01189-02808		
.329	01188-02810			01189-02810		
.392	01188-02812			01189-02812		
.454	01188-02814			01189-02814		
.517	01188-02816			01189-02816		
.579	01188-02818			01189-02818		
.642	01188-02820			01189-02820		
.704	01188-02822			01189-02822		

Grovit® Speed Fasteners are typically used in plastics, aluminum, fiberglass and similar materials. The annular grooves expand into the material to provide a secure joint.



GROVIT® SPEED FASTENER

BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	BODY LENGTH (MAX) "L"	HEAD HEIGHT "C"	NUMBER OF GROOVES	DOME HEAD			120° COUNTERSUNK	
					STEEL	ALUMINUM	HEAD DIAMETER "B"	ALUMINUM	HEAD DIAMETER "B"
3/32 .100	.104	.187	.026-.030	2		01103-00306	.156		
1/8 .135	.136-.140	.250						01104-00408	.205
		.312	.034-.044	3	01101-00410	01103-00410	.205	01104-00410	
5/32 .172	.173-.177	.250		3	01101-00508	01103-00508	.245	01104-00508	.245
		.375	.047-.057	4	01101-00512			01104-00514	
		.437		4	01101-00514	01103-00514		01104-00514	
3/16 .199	.200-.204	.281	.060-.070	3	01101-00609	01103-00609	.339	01004-00609	.339
		.593		4	01101-00619	01103-00619		01104-00619	

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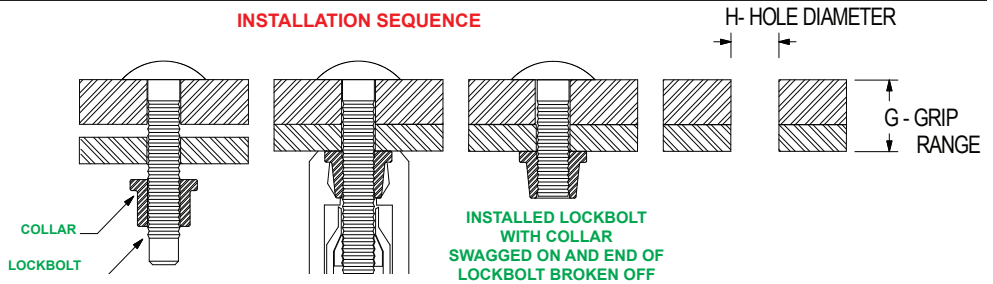
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MAXLOK® LOCKBOLTS & COLLARS

AVDEL MAXLOK® Lockbolt system is a two piece fastener consisting of a Lockbolt and Collar. The Lockbolt is placed through the work and the Collar is placed over the end of the Lockbolt. Using the proper tool the two are swagged together and the Lockbolt is broken off flush with the collar. This fastener has a very wide grip range and exceptional clamp-up force, shear and tensile strengths.

INSTALLATION SEQUENCE

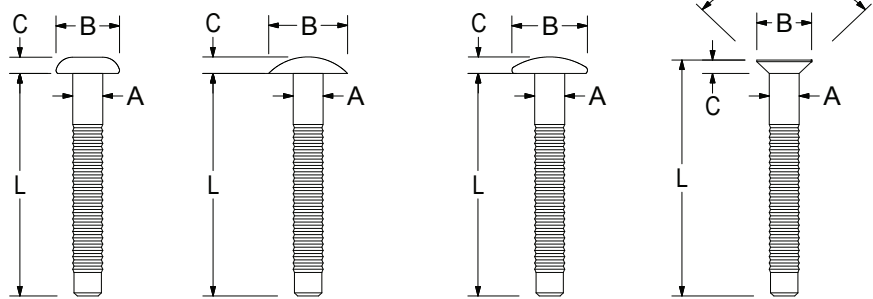


BRAZIER HEAD

MUSHROOM HEAD

TRUSS HEAD

COUNTERSUNK



NG4 AIR-HYDRAULIC TOOL

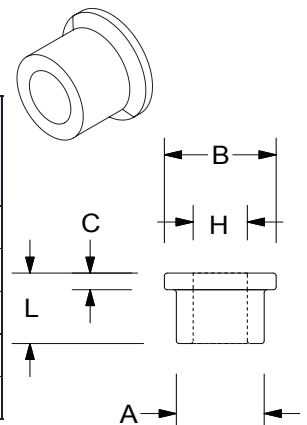
Capacity: 3/16" & 1/4" diameter Maxlok® lockbolts
Weight: 5.2 lbs. - Pulling Force: 4,200 lbs. - Stroke: .670"
Please specify size of lockbolt when ordering.

LOCKBOLTS

MATERIAL & FINISH	NOMINAL BODY DIAMETER	HEAD STYLE	PART NUMBER	Avdel®	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BODY LENGTH "L"	HEAD DIAMETER (NOM.) "B"	HEAD HEIGHT "C"	TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)	
											SHEAR	TENSILE
STEEL ZINC FINISH	3/16	BRAZIER	LB-1901-0610	1901-0610	.183/.186	.203	.062-.625	1.875-1.900	.394	.120-.133	1855	2250
			LB-1601-0620	1601-0620	.183/.186	.203	.312-1.250	2.500-2.525	.490	.100-.110	1855	2250
		MUSHROOM	LB-1903-0610	1903-0610	.183/.186	.203	.062-.625	1.875-1.900	.394	.120-.133	1855	2250
			LB-1903-0620	1903-0620	.183/.186	.203	.312-1.250	2.500-2.525	.490	.100-.110	1855	2250
	1/4	BRAZIER	LB-1905-0610	1905-0610	.183/.186	.203	.062-.625	1.875-1.900	.469	.100-.110	1855	2250
			LB-1905-0620	1905-0620	.183/.186	.203	.312-1.250	2.500-2.525	.469	.100-.110	1855	2250
		120° CTSK.	LB-1902-0610	1902-0610	.183/.186	.203	.096-.625	1.955-1.980	.339	.085 (NOM.)	1855	2250
			LB-1902-0620	1902-0620	.183/.186	.203	.302-1.250	2.580-2.565	.339	.085 (NOM.)	1855	2250
ALUMINUM POLISHED FINISH	3/16	BRAZIER	LB-1921-0610	1921-0610	.183/.186	.203	.062-.625	1.875-1.900	.394	.120-.133	950	1300
			LB-1921-0620	1921-0620	.183/.186	.203	.312-1.250	2.500-2.525	.394	.120-.133	950	1300
			LB-1921-0810	1921-0810	.252/.257	.265	.062-.625	2.065-2.095	.525	.145-.162	1675	2200
	1/4	BRAZIER	LB-1901-0810	1901-0810	.252/.257	.265	.062-.625	2.065-2.095	.525	.145-.162	2650	3600
			LB-1901-0820	1901-0820	.252/.257	.265	.312-1.250	2.690-2.720	.525	.145-.162	2650	3600
			LB-1903-0810	1903-0810	.252/.257	.265	.062-.625	2.065-2.095	.656	.115-.125	2650	3600
LB-1903-0820	1903-0820	.252/.257	.265	.312-1.250	2.690-2.720	.656	.115-.125	2650	3600			

COLLARS

MATERIAL & FINISH	CORRESPONDING MAXLOK LOCKBOLT BODY DIAMETER	FLANGE STYLE	PART NUMBER	Avdel®	BODY DIAMETER "A"	FLANGE DIAMETER "B"	FLANGE HEIGHT "C"	HOLE DIAMETER "H"	OVERALL LENGTH "L"
LARGE	LB-1991-0600	1991-0600	.306/.309	.640/.765	.090-.115	.191-.195	.340-.380		
ALUMINUM PLAIN FINISH	1/4	SMALL	LB-1981-0800	1981-0800	.403/.406	.500/.515	.072-.082	.250-.252	.365-.375
			LB-1985-0600	1985-0600	.306/.309	.375/.390	.057-.067	.191-.195	.254-.264
	3/16	SMALL	LB-1985-0800	1985-0800	.403/.406	.490/.510	.072-.082	.254-.258	.368-.378
			LB-1985-0600	1985-0600	.306/.309	.375/.390	.057-.067	.191-.195	.254-.264



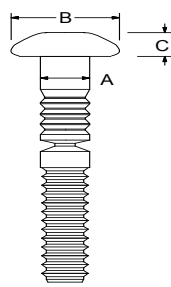
See page C57 for
Collars & installation tools



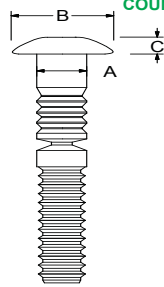
AVDELOK® LOCKBOLTS

STEEL
ZINC FINISH

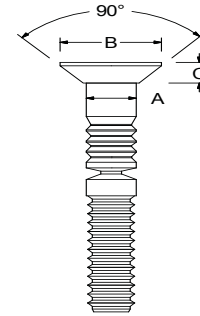
BRAZIER HEAD



TRUSS HEAD



COUNTERSUNK



BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BRAZIER HEAD			TRUSS HEAD			90° COUNTERSUNK			TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)				
			HEAD SIZE	PART NUMBER	Avdel®	HEAD SIZE	PART NUMBER	Avdel®	HEAD SIZE	PART NUMBER	Avdel®	SHEAR	TENSILE			
			DIAMETER (NOM.) "B"	HEIGHT (MAX.) "C"		DIAMETER (NOM.) "B"	HEIGHT (MAX.) "C"		DIAMETER (NOM.) "B"	HEIGHT (MAX.) "C"						
3/16 .191/.195	.203	.063-.188	.375	.125	LB-2621-0602	2621-0602	.437	.088	.341	.089	LB-2622-0602	2622-0602	1725	1650		
		.125-.250			LB-2621-0603	2621-0603									LB-2622-0603	2622-0603
		.187-.312			LB-2621-0604	2621-0604									LB-2622-0604	2622-0604
		.250-.375			LB-2621-0605	2621-0605									LB-2622-0605	2622-0605
		.312-.437			LB-2621-0606	2621-0606									LB-2622-0606	2622-0606
		.375-.500			LB-2621-0607	2621-0607									LB-2622-0607	2622-0607
		.437-.562			LB-2621-0608	2621-0608									LB-2622-0608	2622-0608
		.500-.625			LB-2621-0609	2621-0609									LB-2622-0609	2622-0609
		.562-.687			LB-2621-0610	2621-0610									LB-2622-0610	2622-0610
		.625-.750			LB-2621-0611	2621-0611									LB-2622-0611	2622-0611
		.687-.812			LB-2621-0612	2621-0612									LB-2622-0612	2622-0612
		.750-.875			LB-2621-0613	2621-0613									LB-2622-0613	2622-0613
.812-.937	LB-2621-0614	2621-0614	LB-2622-0614	2622-0614												
.875-1.000	LB-2621-0615	2621-0615	LB-2622-0615	2622-0615												
.937-1.062	LB-2621-0616	2621-0616	LB-2622-0616	2622-0616												
1.000-1.125	LB-2621-0617	2621-0617	LB-2622-0617	2622-0617												
1.062-1.187	LB-2621-0618	2621-0618	LB-2622-0618	2622-0618												
1.125-1.250	LB-2621-0619	2621-0619	LB-2622-0619	2622-0619												
1.187-1.312	LB-2621-0620	2621-0620	LB-2622-0620	2622-0620												
1/4 .254/.259	.266	.063-.188	.500	.152	LB-2621-0802	2621-0802	.563	.115	.455	.118	LB-2622-0802	2622-0802	3050	3000		
		.125-.250			LB-2621-0803	2621-0803									LB-2622-0803	2622-0803
		.187-.312			LB-2621-0804	2621-0804									LB-2622-0804	2622-0804
		.250-.375			LB-2621-0805	2621-0805									LB-2622-0805	2622-0805
		.312-.437			LB-2621-0806	2621-0806									LB-2622-0806	2622-0806
		.375-.500			LB-2621-0807	2621-0807									LB-2622-0807	2622-0807
		.437-.562			LB-2621-0808	2621-0808									LB-2622-0808	2622-0808
		.500-.625			LB-2621-0809	2621-0809									LB-2622-0809	2622-0809
		.562-.687			LB-2621-0810	2621-0810									LB-2622-0810	2622-0810
		.625-.750			LB-2621-0811	2621-0811									LB-2622-0811	2622-0811
		.687-.812			LB-2621-0812	2621-0812									LB-2622-0812	2622-0812
		.750-.875			LB-2621-0813	2621-0813									LB-2622-0813	2622-0813
.812-.937	LB-2621-0814	2621-0814	LB-2622-0814	2622-0814												
.875-1.000	LB-2621-0815	2621-0815	LB-2622-0815	2622-0815												
.937-1.062	LB-2621-0816	2621-0816	LB-2622-0816	2622-0816												
1.062-1.187	LB-2621-0818	2621-0818	LB-2622-0818	2622-0818												
1.187-1.312	LB-2621-0820	2621-0820	LB-2622-0820	2622-0820												
5/16 .317/.322	.328	.125-.375	.625	.201	LB-2621-1004	2621-1004	.750	.157	.568	.147	LB-2622-1004	2622-1004	4725	4600		
		.250-.500			LB-2621-1006	2621-1006									LB-2622-1006	2622-1006
		.375-.625			LB-2621-1008	2621-1008									LB-2622-1008	2622-1008
		.500-.750			LB-2621-1010	2621-1010									LB-2622-1010	2622-1010
		.625-.875			LB-2621-1012	2621-1012									LB-2622-1012	2622-1012
		.750-1.000			LB-2621-1014	2621-1014									LB-2622-1014	2622-1014
		.875-1.125			LB-2621-1016	2621-1016									LB-2622-1016	2622-1016
		1.000-1.250			LB-2621-1018	2621-1018									LB-2622-1018	2622-1018
		1.125-1.375			LB-2621-1020	2621-1020									LB-2622-1020	2622-1020
		1.250-1.500			LB-2621-1022	2621-1022									LB-2622-1022	2622-1022
		1.375-1.625			LB-2621-1024	2621-1024									LB-2622-1024	2622-1024
		1.500-1.750			LB-2621-1026	2621-1026									LB-2622-1026	2622-1026
1.625-1.875	LB-2621-1028	2621-1028	LB-2622-1028	2622-1028												
1.750-2.000	LB-2621-1030	2621-1030	LB-2622-1030	2622-1030												
1.875-2.125	LB-2621-1032	2621-1032	LB-2622-1032	2622-1032												
3/8 .380/.385	.391	.125-.375	.750	.248	LB-2621-1204	2621-1204	.875	.168	.682	.176	LB-2622-1204	2622-1204	6825	6500		
		.250-.500			LB-2621-1206	2621-1206									LB-2622-1206	2622-1206
		.375-.625			LB-2621-1208	2621-1208									LB-2622-1208	2622-1208
		.500-.750			LB-2621-1210	2621-1210									LB-2622-1210	2622-1210
		.625-.875			LB-2621-1212	2621-1212									LB-2622-1212	2622-1212
		.750-1.000			LB-2621-1214	2621-1214									LB-2622-1214	2622-1214
		.875-1.125			LB-2621-1216	2621-1216									LB-2622-1216	2622-1216
		1.000-1.250			LB-2621-1218	2621-1218									LB-2622-1218	2622-1218
		1.125-1.375			LB-2621-1220	2621-1220									LB-2622-1220	2622-1220
		1.250-1.500			LB-2621-1222	2621-1222									LB-2622-1222	2622-1222
		1.375-1.625			LB-2621-1224	2621-1224									LB-2622-1224	2622-1224
		1.500-1.750			LB-2621-1226	2621-1226									LB-2622-1226	2622-1226
1.625-1.875	LB-2621-1228	2621-1228	LB-2622-1228	2622-1228												
1.750-2.000	LB-2621-1230	2621-1230	LB-2622-1230	2622-1230												
1.875-2.125	LB-2621-1232	2621-1232	LB-2622-1232	2622-1232												

NOTE: Values for typical ultimate strengths are a guide only and may vary greatly depending upon the application.

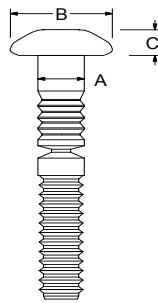
See page C57 for
Collars & installation tools



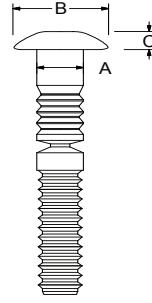
AVDELOK® LOCKBOLTS

**ALUMINUM
POLISHED**

BRAZIER HEAD



TRUSS HEAD



BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	BRAZIER HEAD			TRUSS HEAD			TYPICAL ULTIMATE STRENGTHS IN LBS. (SEE NOTE)								
			HEAD SIZE	PART NUMBER	Avdel®	HEAD SIZE	PART NUMBER	Avdel®	SHEAR	TENSILE							
			DIAMETER (NOM.) "B"	HEIGHT (MAX.) "C"		DIAMETER (NOM.) "B"	HEIGHT (MAX.) "C"										
3/16 .191/.195	.203	.063-.188	DIAMETER (NOM.) ".375"	LB-2801-0602	2801-0602	DIAMETER (NOM.) ".437"	HEIGHT (MAX.) ".088"	LB-2803-0602	2803-0602	1050	1060						
		.125-.250		LB-2801-0603	2801-0603			LB-2803-0603	2803-0603								
		.187-.312		LB-2801-0604	2801-0604			LB-2803-0604	2803-0604								
		.250-.375		LB-2801-0605	2801-0605			LB-2803-0605	2803-0605								
		.312-.437		LB-2801-0606	2801-0606			LB-2803-0606	2803-0606								
		.375-.500		LB-2801-0607	2801-0607			LB-2803-0607	2803-0607								
		.437-.562		LB-2801-0608	2801-0608			LB-2803-0608	2803-0608								
		.500-.625		LB-2801-0609	2801-0609			LB-2803-0609	2803-0609								
		.562-.687		LB-2801-0610	2801-0610			LB-2803-0610	2803-0610								
		.625-.750	LB-2801-0611	2801-0611	LB-2803-0611			2803-0611									
		.687-.812	LB-2801-0612	2801-0612	LB-2803-0612			2803-0612									
		.750-.875	LB-2801-0613	2801-0613	LB-2803-0613			2803-0613									
		.812-.937	LB-2801-0614	2801-0614	LB-2803-0614			2803-0614									
		.875-1.000	LB-2801-0615	2801-0615	LB-2803-0615			2803-0615									
		.937-1.062	LB-2801-0616	2801-0616	LB-2803-0616			2803-0616									
		1.000-1.125	LB-2801-0617	2801-0617	LB-2803-0617			2803-0617									
		1.062-1.187	LB-2801-0618	2801-0618	LB-2803-0618			2803-0618									
		1.125-1.250	LB-2801-0619	2801-0619	LB-2803-0619			2803-0619									
1.187-1.312	LB-2801-0620	2801-0620	LB-2803-0620	2803-0620													
1/4 .254/.259	.266	.063-.188	DIAMETER (NOM.) ".509"	LB-2801-0802	2801-0802	DIAMETER (NOM.) ".562"	HEIGHT (MAX.) ".115"	LB-2803-0802	2803-0802	1875	1780						
		.125-.250		LB-2801-0803	2801-0803			LB-2803-0803	2803-0803								
		.187-.312		LB-2801-0804	2801-0804			LB-2803-0804	2803-0804								
		.250-.375		LB-2801-0805	2801-0805			LB-2803-0805	2803-0805								
		.312-.437		LB-2801-0806	2801-0806			LB-2803-0806	2803-0806								
		.375-.500		LB-2801-0807	2801-0807			LB-2803-0807	2803-0807								
		.437-.562		LB-2801-0808	2801-0808			LB-2803-0808	2803-0808								
		.500-.625		LB-2801-0809	2801-0809			LB-2803-0809	2803-0809								
		.562-.687		LB-2801-0810	2801-0810			LB-2803-0810	2803-0810								
		.625-.750	LB-2801-0811	2801-0811	LB-2803-0811			2803-0811									
		.687-.812	LB-2801-0812	2801-0812	LB-2803-0812			2803-0812									
		.750-.875	LB-2801-0813	2801-0813	LB-2803-0813			2803-0813									
		.812-.937	LB-2801-0814	2801-0814	LB-2803-0814			2803-0814									
		.875-1.000	LB-2801-0815	2801-0815	LB-2803-0815			2803-0815									
		.937-1.062	LB-2801-0816	2801-0816	LB-2803-0816			2803-0816									
		1.062-1.187	LB-2801-0818	2801-0818	LB-2803-0818			2803-0818									
		1.187-1.312	LB-2801-0820	2801-0820	LB-2803-0820			2803-0820									
		5/16 .317/.322	.328	.125-.375	DIAMETER (NOM.) ".625"			LB-2801-1004	2801-1004			DIAMETER (NOM.) ".750"	HEIGHT (MAX.) ".157"	LB-2803-1004	2803-1004	2925	2850
.250-.500	LB-2801-1006			2801-1006		LB-2803-1006	2803-1006										
.375-.625	LB-2801-1008			2801-1008		LB-2803-1008	2803-1008										
.500-.750	LB-2801-1010			2801-1010		LB-2803-1010	2803-1010										
.625-.875	LB-2801-1012			2801-1012		LB-2803-1012	2803-1012										
.750-1.000	LB-2801-1014			2801-1014		LB-2803-1014	2803-1014										
.875-1.125	LB-2801-1016			2801-1016		LB-2803-1016	2803-1016										
1.000-1.250	LB-2801-1018			2801-1018		LB-2803-1018	2803-1018										
1.125-1.375	LB-2801-1020			2801-1020		LB-2803-1020	2803-1020										
1.250-1.500	LB-2801-1022			2801-1022	LB-2803-1022	2803-1022											
1.375-1.625	LB-2801-1024			2801-1024	LB-2803-1024	2803-1024											
1.500-1.750	LB-2801-1026			2801-1026	LB-2803-1026	2803-1026											
1.625-1.875	LB-2801-1028			2801-1028	LB-2803-1028	2803-1028											
1.750-2.000	LB-2801-1030			2801-1030	LB-2803-1030	2803-1030											
1.875-2.125	LB-2801-1032			2801-1032	LB-2803-1032	2803-1032											
3/8 .380/.385	.391			.125-.375	DIAMETER (NOM.) ".750"	LB-2801-1204	2801-1204	DIAMETER (NOM.) ".875"	HEIGHT (MAX.) ".168"	LB-2803-1204	2803-1204			4200	4200		
				.250-.500		LB-2801-1206	2801-1206			LB-2803-1206	2803-1206						
				.375-.625		LB-2801-1208	2801-1208			LB-2803-1208	2803-1208						
		.500-.750	LB-2801-1210	2801-1210		LB-2803-1210	2803-1210										
		.625-.875	LB-2801-1212	2801-1212		LB-2803-1212	2803-1212										
		.750-1.000	LB-2801-1214	2801-1214		LB-2803-1214	2803-1214										
		.875-1.125	LB-2801-1216	2801-1216		LB-2803-1216	2803-1216										
		1.000-1.250	LB-2801-1218	2801-1218		LB-2803-1218	2803-1218										
		1.125-1.375	LB-2801-1220	2801-1220		LB-2803-1220	2803-1220										
		1.250-1.500	LB-2801-1222	2801-1222	LB-2803-1222	2803-1222											
		1.375-1.625	LB-2801-1224	2801-1224	LB-2803-1224	2803-1224											
		1.500-1.750	LB-2801-1226	2801-1226	LB-2803-1226	2803-1226											
		1.625-1.875	LB-2801-1228	2801-1228	LB-2803-1228	2803-1228											
		1.750-2.000	LB-2801-1230	2801-1230	LB-2803-1230	2803-1230											
		1.875-2.125	LB-2801-1232	2801-1232	LB-2803-1232	2803-1232											

HANSON RIVET & SUPPLY CO.

13241 Weidner Street
Pacoima, CA 91331

Phone: 818-485-0500

FAX: 818-485-0540

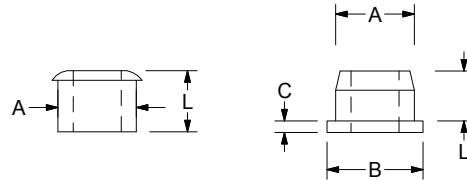
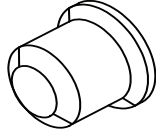
Outside CA: 1-800-RRRIVET

www.hansonrivet.com



AVDELOK® LOCKBOLT COLLARS & TOOL

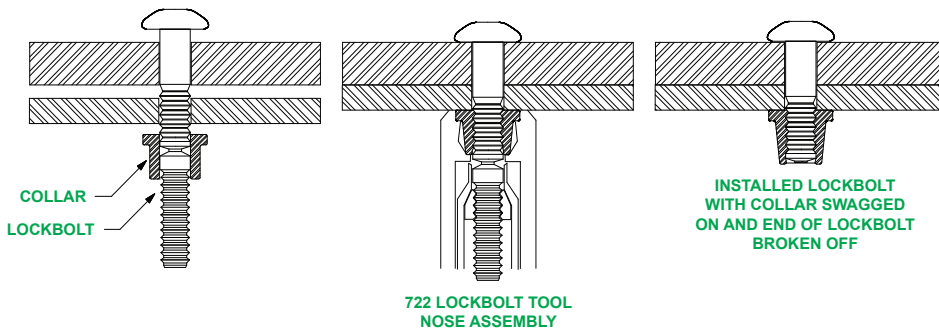
AVDELOK® Lockbolt system is a two piece fastener consisting of a Lockbolt and Collar. The Lockbolt is placed through the work and the Collar is placed over the end of the Lockbolt. Using the proper tool the two are swagged together and the Lockbolt is broken off flush with the collar. This fastener has exceptional clamp-up force, shear and tensile strengths.



STANDARD

FLANGED

MATERIAL & FINISH	CORRESPONDING AVDELOK LOCKBOLT BODY DIAMETER	STYLE	PART NUMBER	Avdel®	BODY DIAMETER MAX. "A"	FLANGE DIAMETER "B"	FLANGE HEIGHT "C"	OVERALL LENGTH "L"
STEEL YELLOW ZINC FINISH	3/16	STANDARD	LB-2662-0600	2662-0600	.309			.250
	1/4		LB-2662-0800	2662-0800	.406			.320
	5/16		LB-2662-1000	2662-1000	.492			.380
	3/8		LB-2662-1200	2662-1200	.598			.460
	3/16	FLANGED	LB-2615-0600	2615-0600	.311	.390	.052	.270
	1/4		LB-2615-0800	2615-0800	.406	.515	.067	.370
	5/16		LB-2615-1000	2615-1000	.505	.640	.085	.460
	3/8		LB-2615-1200	2615-1200	.608	.786	.099	.523
ALUMINUM PLAIN FINISH	3/16	STANDARD	LB-2666-0600	2666-0600	.309			.250
	1/4		LB-2666-0800	2666-0800	.406			.320
	5/16		LB-2666-1000	2666-1000	.492			.380
	3/8		LB-2666-1200	2666-1200	.598			.460
	3/16	FLANGED	LB-2659-0600	2659-0600	.311	.390	.052	.270
	1/4		LB-2659-0800	2659-0800	.406	.515	.067	.370
	5/16		LB-2659-1000	2659-1000	.505	.640	.085	.460
	3/8		LB-2659-1200	2659-1200	.608	.786	.099	.523



722 AIR-HYDRAULIC TOOL
Capacity: 3/16" to 3/8" diameter Avdelok lockbolts
Weight: 11 lbs. - Pulling Force: 6000 lbs. - Stroke: .750"
Please specify size of lockbolt when ordering.

HANSON RIVET & SUPPLY CO.

13241 Weidner Street
Pacoima, CA 91331

Phone: 818-485-0500

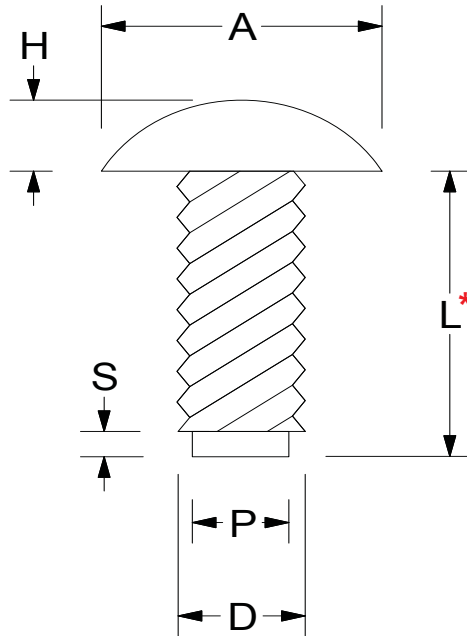
FAX: 818-485-0540

Outside CA: 1-800-RRRIVET

www.hansonrivet.com



DRIVE SCREWS



BASIC PART NUMBER FOR HARDENED STEEL ZINC FINISH <small>*ADD LENGTH "L" IN 16THS OF AN INCH</small>	BASIC PART NUMBER FOR 300 STAINLESS STEEL <small>*ADD LENGTH "L" IN 16THS OF AN INCH</small>	NOMINAL DRIVE SCREW SIZE	RECOMMENDED WORK HOLE SIZE		NUMBER OF THREADS	OUTSIDE DIAMETER "D"		HEAD DIAMETER "A"		HEAD HEIGHT "H"		PILOT DIAMETER "P"	
			HOLE DIAMETER	DRILL SIZE NUMBER		MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
DS-000*	DSS-00*	00	.052	55	6	.057	.060	.090	.099	.026	.034	.046	.049
DS-00*	DSS-00*	0	.067	51	6	.072	.075	.118	.127	.041	.049	.060	.063
DS-02*	DSS-02*	2	.086	44	8	.097	.100	.146	.162	.059	.069	.080	.083
DS-04*	DSS-04*	4	.104	37	7	.112	.116	.193	.211	.075	.086	.092	.096
DS-06*	DSS-06*	6	.120	31	7	.136	.140	.240	.260	.091	.103	.112	.116
DS-07*	DSS-07*	7	.136	29	8	.150	.154	.264	.285	.099	.111	.122	.126
DS-08*	DSS-08*	8	.144	27	8	.162	.167	.287	.309	.107	.120	.132	.136
DS-10*	DSS-10*	10	.161	20	8	.177	.182	.334	.359	.123	.137	.146	.150
DS-12*	DSS-12*	12	.191	11	8	.206	.212	.382	.408	.139	.153	.173	.177
DS-14*	DSS-14*	14	.221	2	9	.236	.242	.429	.457	.155	.170	.198	.202
DS-31*	DSS-31*	5/16	.295	M	11	.309	.315	.557	.590	.198	.216	.267	.272
DS-37*	DSS-37*	3/8	.358	T	12	.371	.378	.670	.708	.237	.256	.329	.334

NOMINAL DRIVE SCREW LENGTH "L"	2/16	3/16	4/16	5/16	6/16	8/16	10/16	12/16	1" and longer
PILOT LENGTH "S"	.047	.047	.047	.047	.062	.062	.078	.078	.125

*(Example Part #: DS-0605 for #6 x 5/16 Steel, Zinc Finish)

Other Materials and Finishes available.

HANSON RIVET & SUPPLY CO.

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DRIVE RIVETS

USE SOUTHCO® EASY-TO-INSTALL DRIVE RIVETS FOR BIG JOBS - LITTLE JOBS

and
everything in between

1. Need the biggest (or the smallest) drive rivets made? Hanson has them on the shelf. Plus plenty in between ... from 1/8" to 3/8" diameter. Only Hanson stocks all of these sizes.



2. Hanson's selection enables you to cope with numerous fastening problems involving tubes, extrusions, odd-shaped housings, and wood panels - thick or thin.

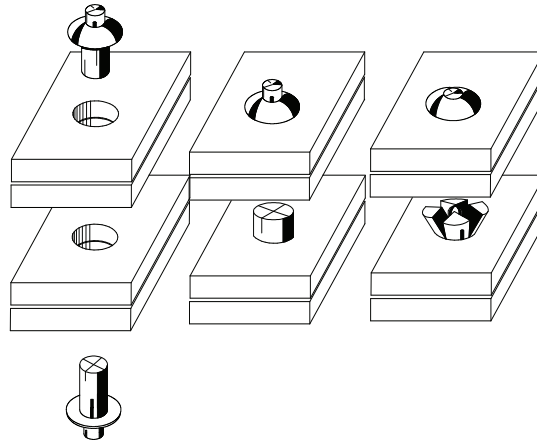
3. Drive riveting is fast - so fast that it's often used in place of nuts and bolts. No special tools or power needed. Not even for 5/16" or 3/8" diameters. An ordinary hammer will drive a Southco rivet home.

With a hammer ...

Just insert the rivet, hit the pin. One man, working from one side of the job sets rivets easily and quickly in blind or open applications. Once you drive the pin, the job is done. Sheets are pulled tightly together, and you get a smooth finished head without secondary operations.

With standard pneumatic tools

Any small, lightweight pneumatic riveting hammer can be used in a production line for the installation of Southco Drive Rivets. Two or three blows of the bit are enough to drive the pin easily and quickly. Blind riveting in high production becomes a comparatively effortless operation.



1. DRILL A HOLE

RIVET DIAMETER	1/8	5/32	3/16	1/4	5/16	3/8	1/2
DRILL SIZE	30	20	11	F	P	W	.515
HOLE DIA.	.128	.161	.191	.257	.323	.386	

2. INSERT A RIVET

Seat head firmly against outer surface.

IN
METAL

IN
WOOD

3. HIT THE PIN

Drive pin flush with rivet head.

Expanding prongs clinch sheets tightly, eliminating gaps.

Metal and wood pulled tightly together. Nothing protrudes through wood.

C59

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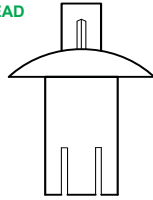
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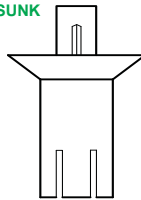


ALUMINUM DRIVE RIVETS

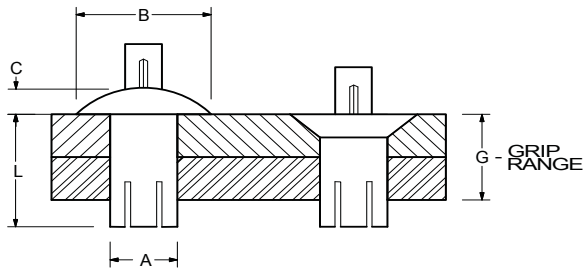
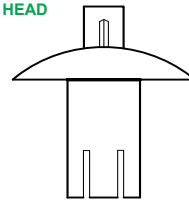
UNIVERSAL
HEAD



100°
COUNTERSUNK



BRAZIER
HEAD



- Blind - install from one side
- Strong shear strength and vibration resistant
- Easy installation with a hammer or power tools
- Simply drive the pin into the head to set the rivet

BODY DIAMETER "A"	GRIP RANGE "G"	LENGTH "L"	UNIVERSAL HEAD "B" Head Diameter .250 "C" Head Height .054	100° COUNTERSUNK HEAD "B" Head Diameter .216 "C" Head Height .042	BRAZIER HEAD "B" Head Diameter .312 "C" Head Height .062
.125 1/8	.015-.046	5/32	38-104-01-13		
	.046-.078	5/32	38-104-02-13		
	.078-.109	3/16	38-104-03-13	38-504-03-13	38-204-03-13
	.109-.140	7/32	38-104-04-13	38-504-04-13	38-204-04-13
	.140-.171	1/4	38-104-05-13	38-504-05-13	38-204-05-13
	.171-.203	9/32	38-104-06-13	38-504-06-13	38-204-06-13
	.203-.234	5/16	38-104-07-13	38-504-07-13	38-204-07-13
	.234-.265	11/32	38-104-08-13	38-504-08-13	38-204-08-13
	.265-.296	3/8	38-104-09-13	38-504-09-13	38-204-09-13
	.296-.328	13/32	38-104-10-13	38-504-10-13	
	.328-.359	7/16	38-104-11-13	38-504-11-13	
	.359-.390	15/32	38-104-12-13	38-504-12-13	38-204-12-13
	.390-.421	1/2	38-104-13-13	38-504-13-13	
	.421-.453	17/32	38-104-14-13		

BODY DIAMETER "A"	GRIP RANGE "G"	LENGTH "L"	UNIVERSAL HEAD "B" Head Diameter .312 "C" Head Height .067	100° COUNTERSUNK HEAD "B" Head Diameter .278 "C" Head Height .055
.156 5/32	.015-.046	3/16	38-105-01-13	
	.046-.078	3/16	38-105-02-13	
	.078-.109	7/32	38-105-03-13	
	.109-.140	1/4	38-105-04-13	38-505-04-13
	.140-.171	9/32	38-105-05-13	38-505-05-13
	.171-.203	5/16	38-105-06-13	38-505-06-13
	.203-.234	11/32	38-105-07-13	38-505-07-13
	.234-.265	3/8	38-105-08-13	38-505-08-13
	.265-.296	13/32	38-105-09-13	38-505-09-13
	.296-.328	7/16	38-105-10-13	38-505-10-13
	.328-.359	15/32	38-105-11-13	38-505-11-13
	.359-.390	1/2	38-105-12-13	38-505-12-13
	.390-.421	17/32	38-105-13-13	38-505-13-13
	.421-.453	9/16	38-105-14-13	38-505-14-13
	.453-.484	19/32	38-105-15-13	38-505-15-13
	.484-.515	5/8	38-105-16-13	38-505-16-13
	.515-.546	21/32	38-105-17-13	38-505-17-13
	.546-.578	11/16	38-105-18-13	38-505-18-13
	.578-.609	23/32	38-105-19-13	38-505-19-13
	.609-.640	3/4	38-105-20-13	38-505-20-13

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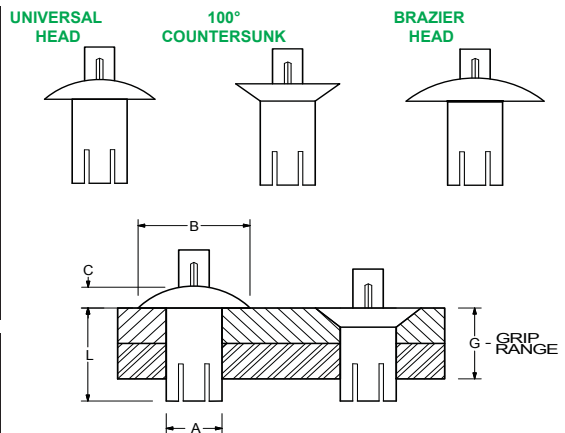


ALUMINUM DRIVE RIVETS

BODY DIAMETER "A"	GRIP RANGE "G"	LENGTH "L"	UNIVERSAL HEAD "B" Head Diameter .375 "C" Head Height .080	100° COUNTERSUNK HEAD "B" Head Diameter .344 "C" Head Height .070	BRAZIER HEAD "B" Head Diameter .469 "C" Head Height .094
.187 3/16	.047-.140	1/4	38-106-02-16		38-206-02-16
	.078-.171	9/32	38-106-04-16		38-206-04-16
	.140-.234	11/32	38-106-06-16	38-506-06-16	38-206-06-16
	.203-.296	13/32	38-106-08-16	38-506-08-16	38-206-08-16
	.265-.359	15/32	38-106-10-16	38-506-10-16	38-206-10-16
	.328-.421	17/32	38-106-12-16	38-506-12-16	38-206-12-16
	.390-.484	19/32	38-106-14-16	38-506-14-16	38-206-14-16
	.453-.546	21/32	38-106-16-16	38-506-16-16	38-206-16-16
	.515-.609	23/32	38-106-18-16	38-506-18-16	38-206-18-16
	.578-.671	25/32	38-106-20-16	38-506-20-16	38-206-20-16
	.640-.734	27/32	38-106-22-16	38-506-22-16	38-206-22-16
	.703-.796	29/32	38-106-24-16	38-506-24-16	38-206-24-16
	.765-.859	31/32	38-106-26-16	38-506-26-16	38-206-26-16
	.828-.921	1-1/32	38-106-28-16	38-506-28-16	38-206-28-16
	.890-.984	1-3/32	38-106-30-16	38-506-30-16	38-206-30-16
.953-1.047	1-5/32	38-106-32-16	38-506-32-16	38-206-32-16	

BODY DIAMETER "A"	GRIP RANGE "G"	LENGTH "L"	UNIVERSAL HEAD "B" Head Diameter .500 "C" Head Height .107	100° COUNTERSUNK HEAD "B" Head Diameter .467 "C" Head Height .095	BRAZIER HEAD "B" Head Diameter .625 "C" Head Height .125
.250 1/4	.047-.140	1/4	38-108-02-16		38-208-02-16
	.078-.171	9/32	38-108-04-16		38-208-04-16
	.140-.234	11/32	38-108-06-16	38-508-06-16	38-208-06-16
	.203-.296	13/32	38-108-08-16	38-508-08-16	38-208-08-16
	.265-.359	15/32	38-108-10-16	38-508-10-16	38-208-10-16
	.328-.421	17/32	38-108-12-16	38-508-12-16	38-208-12-16
	.390-.484	19/32	38-108-14-16	38-508-14-16	38-208-14-16
	.453-.546	21/32	38-108-16-16	38-508-16-16	38-208-16-16
	.515-.609	23/32	38-108-18-16	38-508-18-16	38-208-18-16
	.578-.671	25/32	38-108-20-16	38-508-20-16	38-208-20-16
	.640-.734	27/32	38-108-22-16	38-508-22-16	38-208-22-16
	.703-.796	29/32	38-108-24-16	38-508-24-16	38-208-24-16
	.765-.859	31/32	38-108-26-16	38-508-26-16	38-208-26-16
	.828-.921	1-1/32	38-108-28-16	38-508-28-16	38-208-28-16
	.890-.984	1-3/32	38-108-30-16	38-508-30-16	38-208-30-16
.953-1.047	1-5/32	38-108-32-16	38-508-32-16	38-208-32-16	

BODY DIAMETER "A"	GRIP RANGE "G"	LENGTH "L"	UNIVERSAL HEAD "B" Head Diameter .625 "C" Head Height .138
.312 5/16	.132-.242	7/16	38-110-06-16
	.226-.336	17/32	38-110-09-16
	.320-.430	5/8	38-110-12-16
	.414-.523	23/32	38-110-15-16
	.508-.617	13/16	38-110-18-16
	.601-.711	29/32	38-110-21-16
	.695-.804	1	38-110-24-16
	.789-.898	1-3/32	38-110-27-16
	.882-.992	1-3/16	38-110-30-16
	.976-1.086	1-9/32	38-110-33-16



BODY DIAMETER "A"	GRIP RANGE "G"	LENGTH "L"	UNIVERSAL HEAD "B" Head Diameter .750 "C" Head Height .166
.375 3/8	.125-.250	1/2	38-112-06-16
	.218-.343	19/32	38-112-09-16
	.312-.437	11/16	38-112-12-16
	.406-.531	25/32	38-112-15-16
	.500-.625	7/8	38-112-18-16
	.593-.718	31/32	38-112-21-16
	.687-.813	1-1/16	38-112-24-16
	.781-.906	1-5/32	38-112-27-16
	.875-1.000	1-1/4	38-112-30-16
	.968-1.093	1-11/32	38-112-33-16

- Blind - install from one side
- Strong shear strength and vibration resistant
- Easy installation with a hammer or power tools
- Simply drive the pin into the head to set the rivet

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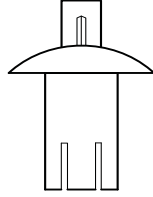
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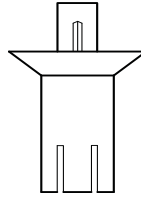


STEEL DRIVE RIVETS

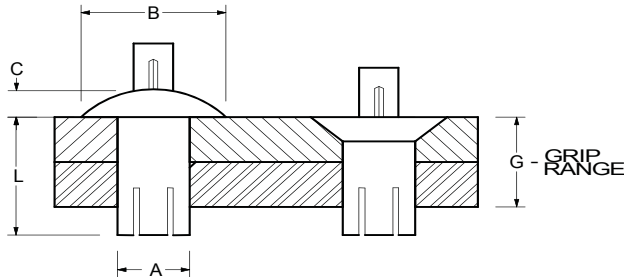
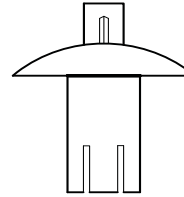
UNIVERSAL HEAD



100° COUNTERSUNK HEAD



BRAZIER HEAD



- Blind - install from one side
- Strong shear strength and vibration resistant
- Easy installation with a hammer or power tools
- Simply drive the pin into the head to set the rivet

BODY DIAMETER "A"	GRIP RANGE "G"	LENGTH "L"	UNIVERSAL HEAD "B" Head Diameter .250 "C" Head Height .054	100° COUNTERSUNK HEAD "B" Head Diameter .219 "C" Head Height .062
.125 1/8	.015-.046	5/32	38-104-01-93	
	.046-.078	5/32	38-104-02-93	
	.078-.109	3/16	38-104-03-93	
	.109-.140	7/32	38-104-04-93	38-604-04-93
	.140-.171	1/4	38-104-05-93	38-604-05-93
	.171-.203	9/32	38-104-06-93	38-604-06-93
	.203-.234	5/16	38-104-07-93	38-604-07-93
	.234-.265	11/32	38-104-08-91	38-604-08-93
	.265-.296	3/8	38-104-09-93	38-604-09-93
	.296-.328	13/32	38-104-10-93	38-604-10-93
	.328-.359	7/16	38-104-11-93	38-604-11-93
	.359-.390	15/32	38-104-12-93	38-604-12-93
	.390-.421	1/2	38-104-13-93	38-604-13-93
.421-.453	17/32	38-104-14-93		

BODY DIAMETER "A"	GRIP RANGE "G"	LENGTH "L"	UNIVERSAL HEAD "B" Head Diameter .375 "C" Head Height .080	100° COUNTERSUNK HEAD "B" Head Diameter .325 "C" Head Height .094	BRAZIER HEAD "B" Head Diameter .469 "C" Head Height .094
.187 3/16	.046-.078	7/32			38-206-02-91
	.078-.109	7/32	38-106-03-91		38-206-03-91
	.109-.140	1/4	38-106-04-91		38-206-04-91
	.140-.171	9/32	38-106-05-91		38-206-05-91
	.171-.203	5/16	38-106-06-91		38-206-06-91
	.203-.234	11/32	38-106-07-91		38-206-07-91
	.234-.265	3/8	38-106-08-91		38-206-08-91
	.265-.296	13/32	38-106-09-91		38-206-09-91
	.296-.328	7/16	38-106-10-91		38-206-10-91
	.328-.359	15/32	38-106-11-91		
	.359-.390	1/2	38-106-12-91		
	.390-.421	17/32	38-106-13-91		
	.421-.453	9/16	38-106-14-91		38-206-13-91
	.453-.484	19/32	38-106-15-91		38-206-14-91
	.484-.515	5/8	38-106-16-91		
	.515-.546	21/32	38-106-17-91		
	.546-.578	11/16	38-106-18-91		
	.578-.609	23/32	38-106-19-91		
.609-.640	3/4	38-106-20-91			38-206-20-91

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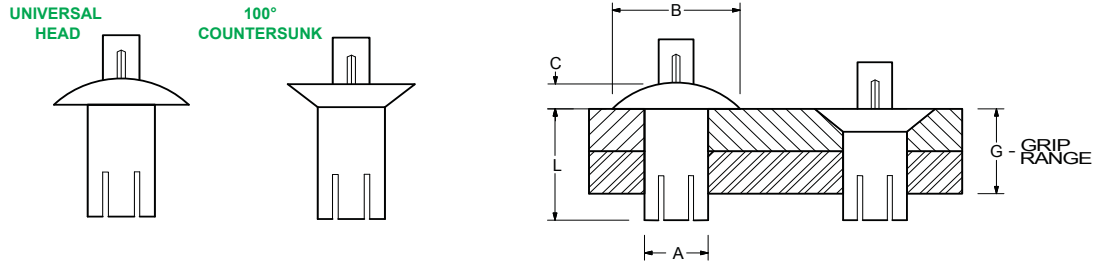
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STEEL DRIVE RIVETS



BODY DIAMETER "A"	GRIP RANGE "G"	LENGTH "L"	UNIVERSAL HEAD "B" Head Diameter .500 "C" Head Height .107	100° COUNTERSUNK HEAD "B" Head Diameter .435 "C" Head Height .125
.250 1/4	.078-.109	7/32	38-108-03-91	
	.109-.140	1/4	38-108-04-91	
	.140-.171	9/32	38-108-05-91	
	.171-.203	5/16	38-108-06-91	38-608-06-91
	.203-.234	11/32	38-108-07-91	38-608-07-91
	.234-.265	3/8	38-108-08-91	38-608-08-91
	.265-.296	13/32	38-108-09-91	38-608-09-91
	.296-.328	7/16	38-108-10-91	38-608-10-91
	.328-.359	15/32	38-108-11-91	38-608-11-91
	.359-.390	1/2	38-108-12-91	38-608-12-91
	.390-.421	17/32	38-108-13-91	38-608-13-91
	.421-.453	9/16	38-108-14-91	38-608-14-91
	.453-.484	19/32	38-108-15-91	38-608-15-91
	.484-.515	5/8	38-108-16-91	38-608-16-91
	.515-.546	21/32	38-108-17-91	38-608-17-91
	.546-.578	11/16	38-108-18-91	38-608-18-91
.578-.609	23/32	38-108-19-91	38-608-19-91	
.609-.640	3/4	38-108-20-91	38-608-20-91	

BODY DIAMETER "A"	GRIP RANGE "G"	LENGTH "L"	UNIVERSAL HEAD "B" Head Diameter .625 "C" Head Height .138
.312 5/16	.094-.156	5/16	38-110-04-91
	.157-.218	3/8	38-110-06-91
	.219-.281	7/16	38-110-08-91
	.282-.343	1/2	38-110-10-91
	.344-.406	9/16	38-110-12-91
	.407-.468	5/8	38-110-14-91
	.469-.531	11/32	38-110-16-91
	.532-.593	3/4	38-110-18-91
	.594-.656	13/32	38-110-20-91
	.657-.718	7/8	38-110-22-91
	.719-.781	15/16	38-110-24-91
	.782-.843	1	38-110-26-91
	.844-.906	1-1/16	38-110-28-91
	.907-.968	1-1/8	38-110-30-91
.969-1.031	1-13/16	38-110-32-91	

- Blind - install from one side
- Strong shear strength and vibration resistant
- Easy installation with a hammer or power tools
- Simply drive the pin into the head to set the rivet

BODY DIAMETER "A"	GRIP RANGE "G"	LENGTH "L"	UNIVERSAL HEAD "B" Head Diameter .750 "C" Head Height .166
.375 3/8	.125-.250	1/2	38-112-06-91
	.218-.343	19/32	38-112-09-91
	.312-.437	11/16	38-112-12-91
	.406-.531	25/32	38-112-15-91
	.500-.625	7/8	38-112-18-91
	.593-.718	31/32	38-112-21-91
	.687-.813	1-1/16	38-112-24-91
	.781-.906	1-5/32	38-112-27-91
	.907-.968	1-3/16	38-112-30-91
	.969-1.031	1-1/4	38-112-32-91

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See pages C69 for
installation tools

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FAX: 818-485-0540

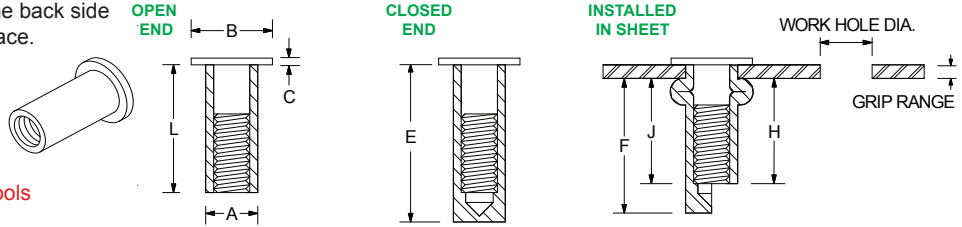
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RIVET-NUT THREADED INSERTS

During installation the body collapses on the back side which grips the inside of the mounting surface.

- Blind - install from one side
- Adds threads to thin sheets
- Thick-wall design for maximum strength
- Easy installation with manual or power tools



THREAD SIZE	BASIC PART NUMBER*	GRIP RANGE "G"	BODY DIAMETER "A"	HEAD DIAMETER "B"	HEAD HEIGHT "C"	OPEN END		CLOSED END			WORK HOLE DIAMETER	DRILL SIZE
						LENGTH "L"	REF. "H"	LENGTH "E"	REF. "F"	REF. "J"		
4-40	4-60	.010-.060	.155	.270	.025	.345	.230	.500	.385	.230	.155/.157	5/32
	4-85	.060-.085				.370	.230	.525	.385	.230		
	4-110	.085-.110				.400	.230	.555	.390	.230		
	4-135	.110-.135				.425	.230	.580	.385	.230		
	4-160	.135-.160				.450	.230	.605	.385	.230		
	4-185	.160-.185				.480	.230	.635	.385	.230		
6-32	6-75	.010-.075	.189	.325	.032	.438	.300	.625	.490	.405	.189/.193	#12
	6-120	.075-.120				.500	.315	.625	.440	.355		
	6-160	.120-.160				.500	.270	.750	.520	.310		
	6-200	.160-.200				.562	.290	.750	.480	.260		
	6-240	.200-.240				.625	.310	.750	.435	.260		
	6-280	.240-.280				.687	.330	.812	.455	.265		
8-32	8-75	.010-.075	.221	.357	.032	.438	.300	.625	.490	.405	.221/.226	#2
	8-120	.075-.120				.500	.315	.625	.440	.355		
	8-160	.120-.160				.500	.270	.750	.520	.310		
	8-200	.160-.200				.625	.350	.750	.475	.265		
	8-240	.200-.240				.625	.305	.875	.555	.310		
	8-280	.240-.280				.687	.340	.875	.530	.290		
10-32	10-80	.010-.080	.250	.406	.038	.531	.380	.781	.630	.380	.250/.256	E
	10-130	.080-.130				.594	.390	.843	.640	.390		
	10-180	.130-.180				.641	.390	.891	.640	.390		
	10-230	.180-.230				.703	.395	.953	.645	.395		
	10-280	.230-.280				.750	.395	1.000	.645	.395		
	10-330	.280-.330				.797	.385	1.047	.630	.385		
1/4-20	25-80	.020-.080	.332	.475	.058	.625	.450	.937	.760	.440	.332/.388	Q
	25-140	.080-.140				.687	.450	1.000	.760	.440		
	25-200	.140-.200				.750	.450	1.062	.760	.440		
	25-260	.200-.260				.812	.445	1.125	.755	.445		
	25-320	.260-.320				.875	.445	1.187	.755	.445		
	25-380	.320-.380				.937	.445	1.250	.755	.445		
5/16-18	31-125	.030-.125	.413	.665	.062	.750	.505	1.187	.940	.550	.413/.423	Z
	31-200	.125-.200				.875	.555	1.281	.960	.555		
	31-275	.200-.275				.937	.540	1.343	.950	.560		
	31-350	.275-.350				1.032	.560	1.437	.965	.570		
	31-425	.350-.425				1.125	.580	1.531	.985	.575		
	31-500	.425-.500				1.187	.565	1.593	.975	.580		
3/8-16	37-115	.030-.115	.490	.781	.088	.844	.585	1.281	1.020	.660	.490/.500	12.5mm
	37-200	.115-.200				.938	.595	1.375	1.030	.670		
	37-285	.200-.285				1.031	.605	1.468	1.040	.680		
	37-370	.285-.370				1.125	.615	1.562	1.050	.690		
	37-455	.370-.455				1.218	.630	1.656	1.065	.710		
	37-540	.455-.540				1.312	.635	1.750	1.075	.715		

FIRST LETTER OF PART NUMBER:

- "A" - Aluminum
- "S" - Steel
- "SS" - Stainless - Type 430
- "NM" - Stainless - Type 300
- "BR" - Brass

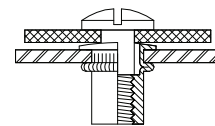
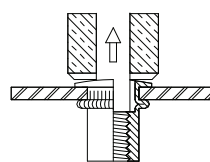
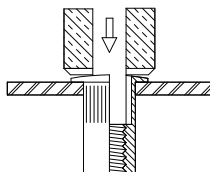
LETTER BETWEEN DASH NUMBERS:

- "," Open End Round Body
- "B" Closed End
- "K" Keyed
- "H" Full Hexagon Body

*PART NUMBER EXAMPLES:

- A10-80 = Aluminum, Open End
- S25B140 = Steel, Closed End
- A8K200 = Aluminum, Keyed, Open End
- BR6KB120 = Brass, Keyed, Closed End

Metric Threads, Countersunk Heads and various finishes are available. Special sizes can be made to order. See page C69 for Setting Tools.



C64

1. The Threaded Insert is threaded onto the threaded mandrel of the tool.

2. The mandrel retracts in the tool or keeps spinning until the clutch disengages. This sets the Insert in the work.

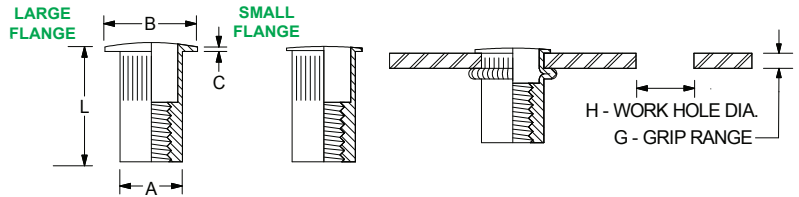
3. The threaded mandrel is unthreaded from the Insert. Now the Insert is ready to accept a screw or bolt.

See pages C69 for
installation tools



THIN-NUT THREADED INSERTS

- Fastens in blind holes
- Very thin flange or head
- Knurled body for anti-rotation
- Wide grip range for metal and other materials
- Easy installation with manual or pneumatic tools



	THREAD SIZE	STEEL YELLOW ZINC PART NUMBER	ALUMINUM PART NUMBER	STAINLESS 300 SERIES PART NUMBER	GRIP RANGE "G"	BODY DIAMETER (MAX.) "A"	FLANGE DIAMETER "B"	FLANGE HEIGHT "C"	LENGTH "L"	REFERENCE "E"	WORK HOLE DIAMETER "H"
LARGE FLANGE	6-32	SKL6-32-80	AKL6-32-80	SSKL6-32-80	.020-.080	.265	.390	.030	.420	.305	.266
		SKL6-32-130	AKL6-32-130	SSKL6-32-130	.080-.130	.265	.390	.030	.470	.305	.266
	8-32	SKL8-32-80	AKL8-32-80	SSKL8-32-80	.020-.080	.265	.390	.030	.420	.305	.266
		SKL8-32-130	AKL8-32-130	SSKL8-32-130	.080-.130	.265	.390	.030	.470	.305	.266
	10-24	SKL10-24-130	AKL10-24-130	SSKL10-24-130	.020-.130	.296	.415	.030	.475	.315	.297
		SKL10-24-225	AKL10-24-225	SSKL10-24-225	.130-.225	.296	.415	.030	.585	.315	.297
	10-32	SKL10-32-130	AKL10-32-130	SSKL10-32-130	.020-.130	.296	.415	.030	.475	.315	.297
		SKL10-32-225	AKL10-32-225	SSKL10-32-225	.130-.225	.296	.415	.030	.585	.315	.297
	1/4-20	SKL250-20-165	AKL250-20-165	SSKL250-20-165	.030-.165	.390	.500	.030	.580	.380	.391
		SKL250-20-260	AKL250-20-260	SSKL250-20-260	.165-.260	.390	.500	.030	.680	.380	.391
	1/4-28	SKL250-28-165	AKL250-28-165	SSKL250-28-165	.027-.165	.390	.500	.030	.580	.380	.391
		SKL250-28-260	AKL250-28-260	SSKL250-28-260	.165-.260	.390	.500	.030	.680	.380	.391
	5/16-18	SKL312-18-150	AKL312-18-150	SSKL312-18-150	.030-.150	.530	.685	.035	.690	.470	.531
		SKL312-18-312	AKL312-18-312	SSKL312-18-312	.150-.312	.530	.685	.035	.805	.425	.531
	5/16-24	SKL312-24-150	AKL312-24-150	SSKL312-24-150	.027-.150	.530	.685	.035	.690	.470	.531
		SKL312-24-312	AKL312-24-312	SSKL312-24-312	.150-.312	.530	.685	.035	.805	.425	.531
	3/8-16	SKL375-16-150	AKL375-16-150	SSKL375-16-150	.030-.150	.530	.685	.035	.690	.470	.531
		SKL375-16-312	AKL375-16-312	SSKL375-16-312	.150-.312	.530	.685	.035	.805	.425	.531
	3/8-24	SKL375-24-150	AKL375-24-150	SSKL375-24-150	.027-.150	.530	.685	.035	.690	.470	.531
		SKL375-24-312	AKL375-24-312	SSKL375-24-312	.150-.312	.530	.685	.035	.805	.425	.531
1/2-13	SKL500-13-200	AKL500-13-200	SSKL500-13-200	.063-.200	.685	.865	.047	1.150	.850	.688	
	SKL500-13-350	AKL500-13-350	SSKL500-13-350	.200-.350	.685	.865	.047	1.300	.850	.688	
	SKL500-13-500	AKL500-13-500	SSKL500-13-500	.350-.500	.685	.865	.047	1.450	.860	.688	
M4-.70	SKLM4-70-2.0	AKLM4-70-2.0	SSKLM4-70-2.0	.50-2.00	6.73	9.91	.76	10.67	7.75	6.8	
	SKLM4-70-3.3	AKLM4-70-3.3	SSKLM4-70-3.3	2.00-3.30	6.73	9.91	.76	11.94	7.75	6.8	
M5-.80	SKLM5-80-3.3	AKLM5-80-3.3	SSKLM5-80-3.3	.50-3.30	7.52	10.54	.76	12.07	8.00	7.6	
	SKLM5-80-5.7	AKLM5-80-5.7	SSKLM5-80-5.7	3.30-5.70	7.52	10.54	.76	14.86	8.00	7.6	
M6-1.0	SKLM6-10-4.2	AKLM6-10-4.2	SSKLM6-10-4.2	.70-4.20	9.91	12.70	.76	14.73	9.65	10.0	
	SKLM6-10-6.6	AKLM6-10-6.6	SSKLM6-10-6.6	4.20-6.60	9.91	12.70	.76	17.27	9.65	10.0	
M8-1.25	SKLM81-25-3.8	AKLM81-25-3.8	SSKLM81-25-3.8	.70-3.80	13.46	17.40	.89	17.53	11.94	13.5	
	SKLM81-25-7.9	AKLM81-25-7.9	SSKLM81-25-7.9	3.80-7.90	13.46	17.40	.89	20.45	10.80	13.5	
M10-1.5	SKLM10-15-3.8	AKLM10-15-3.8	SSKLM10-15-3.8	.70-3.80	13.46	17.40	.89	17.53	11.94	13.5	
	SKLM10-15-7.9	AKLM10-15-7.9	SSKLM10-15-7.9	3.80-7.90	13.46	17.40	.89	20.45	10.80	13.5	
SMALL FLANGE	6-32	SKS6-32-80	AKS6-32-80	SSKS6-32-80	.020-.080	.265	.310	.019	.420	.305	.266
		SKS6-32-130	AKS6-32-130	SSKS6-32-130	.080-.130	.265	.310	.019	.470	.305	.266
	8-32	SKS8-32-80	AKS8-32-80	SSKS8-32-80	.020-.080	.265	.310	.019	.420	.305	.266
		SKS8-32-130	AKS8-32-130	SSKS8-32-130	.080-.130	.265	.310	.019	.470	.305	.266
	10-24	SKS10-24-130	AKS10-24-130	SSKS10-24-130	.020-.130	.296	.340	.019	.475	.315	.297
		SKS10-24-225	AKS10-24-225	SSKS10-24-225	.130-.225	.296	.340	.020	.585	.315	.297
	10-32	SKS10-32-130	AKS10-32-130	SSKS10-32-130	.020-.130	.296	.340	.019	.475	.315	.297
		SKS10-32-225	AKS10-32-225	SSKS10-32-225	.130-.225	.296	.340	.019	.585	.315	.297
	1/4-20	SKS250-20-165	AKS250-20-165	SSKS250-20-165	.030-.165	.390	.455	.022	.580	.380	.391
		SKS250-20-260	AKS250-20-260	SSKS250-20-260	.165-.260	.390	.455	.022	.680	.380	.391
	1/4-28	SKS250-28-165	AKS250-28-165	SSKS250-28-165	.027-.165	.390	.455	.022	.580	.380	.391
		SKS250-28-260	AKS250-28-260	SSKS250-28-260	.165-.260	.390	.455	.022	.680	.380	.391
	5/16-18	SKS312-18-150	AKS312-18-150	SSKS312-18-150	.030-.150	.530	.595	.022	.690	.470	.531
		SKS312-18-312	AKS312-18-312	SSKS312-18-312	.150-.312	.530	.595	.022	.805	.425	.531
	5/16-24	SKS312-24-150	AKS312-24-150	SSKS312-24-150	.027-.150	.530	.595	.022	.690	.470	.531
		SKS312-24-312	AKS312-24-312	SSKS312-24-312	.150-.312	.530	.595	.022	.805	.425	.531
	3/8-16	SKS375-16-150	AKS375-16-150	SSKS375-16-150	.030-.150	.530	.595	.022	.690	.470	.531
		SKS375-16-312	AKS375-16-312	SSKS375-16-312	.150-.312	.530	.595	.022	.805	.425	.531
	3/8-24	SKS375-24-150	AKS375-24-150	SSKS375-24-150	.027-.150	.530	.595	.022	.690	.470	.531
		SKS375-24-312	AKS375-24-312	SSKS375-24-312	.150-.312	.530	.595	.022	.805	.425	.531
M4-.70	SKSM4-70-2.0	AKSM4-70-2.0	SSKSM4-70-2.0	.50-2.00	6.73	7.87	.48	10.67	7.75	6.8	
	SKSM4-70-3.3	AKSM4-70-3.3	SSKSM4-70-3.3	2.00-3.30	6.73	7.87	.48	11.94	7.75	6.8	
M5-.80	SKSM5-80-3.3	AKSM5-80-3.3	SSKSM5-80-3.3	.50-3.30	7.52	8.64	.48	12.04	8.00	7.6	
	SKSM5-80-5.7	AKSM5-80-5.7	SSKSM5-80-5.7	3.30-5.70	7.52	8.64	.48	14.86	8.00	7.6	
M6-1.0	SKSM6-10-4.2	AKSM6-10-4.2	SSKSM6-10-4.2	.70-4.20	9.91	11.56	.55	14.73	9.65	10.0	
	SKSM6-10-6.6	AKSM6-10-6.6	SSKSM6-10-6.6	4.20-6.60	9.91	11.56	.55	17.27	9.65	10.0	
M8-1.25	SKSM81-25-3.8	AKSM81-25-3.8	SSKSM81-25-3.8	.70-3.80	13.46	15.11	.55	17.53	11.94	13.5	
	SKSM81-25-7.9	AKSM81-25-7.9	SSKSM81-25-7.9	3.80-7.90	13.46	15.11	.55	20.45	10.80	13.5	
M10-1.5	SKSM10-15-3.8	AKSM10-15-3.8	SSKSM10-15-3.8	.70-3.80	13.46	15.11	.55	17.53	11.94	13.5	
	SKSM10-15-7.9	AKSM10-15-7.9	SSKSM10-15-7.9	3.80-7.90	13.46	15.11	.55	20.45	10.80	13.5	

NOTE: SOME SIZES ARE AVAILABLE IN MONEL



HANSON RIVET

& SUPPLY CO.
13241 Weidner Street
Pacoima, CA 91331

See page C69 for
installation tools

Phone: 818-485-0500

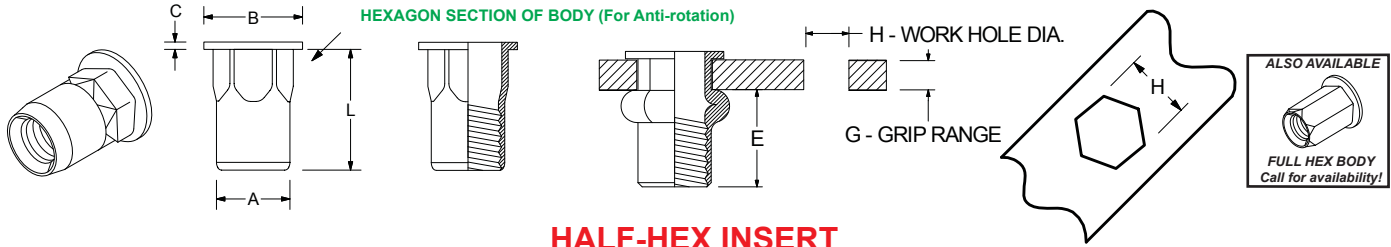
FAX: 818-485-0540

Outside CA: 1-800-RRRIVET

www.hansonrivet.com



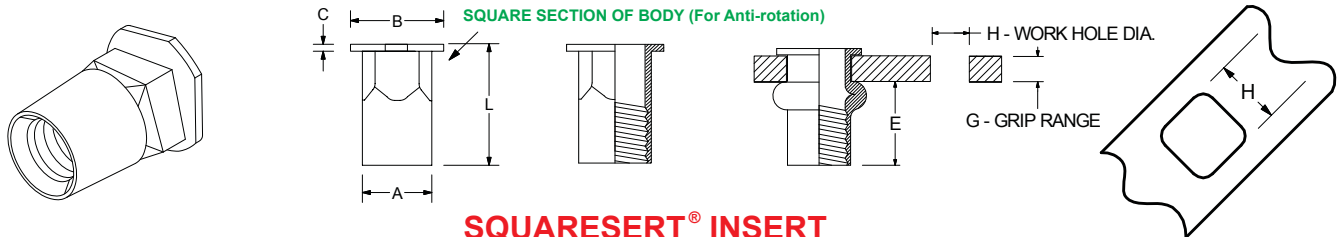
THREADED INSERTS



HALF-HEX INSERT

THREAD SIZE	STEEL YELLOW ZINC PART NUMBER	GRIP RANGE "G"	BODY DIAMETER ACROSS FLATS (MAX.) "A"	FLANGE DIAMETER "B"	FLANGE HEIGHT "C"	LENGTH (MAX.) "L"	REFERENCE "E"	RECOMMENDED HEXAGON HOLE ACROSS FLATS +.006 / -.000 "H"
6-32	SH6-32-80	.020-.080	.249	.375	.027	.385	.295	.250
	SH6-32-130	.080-.130	.249	.375	.027	.435	.295	.250
8-32	SH8-32-80	.020-.080	.249	.375	.027	.385	.295	.250
	SH8-32-130	.080-.130	.249	.375	.027	.435	.295	.250
10-32	SH10-32-130	.020-.130	.280	.390	.027	.435	.275	.281
	SH10-32-225	.130-.225	.280	.390	.027	.535	.275	.281
1/4-20	SH250-20-165	.027-.165	.374	.510	.030	.585	.400	.375
	SH250-20-260	.165-.260	.374	.510	.030	.685	.400	.375
5/16-18	SH312-18-150	.027-.150	.499	.655	.035	.685	.530	.500
	SH312-18-312	.150-.312	.499	.655	.035	.845	.515	.500
3/8-16	SH375-16-150	.027-.150	.499	.655	.035	.685	.530	.500
	SH375-16-312	.150-.312	.499	.655	.035	.845	.515	.500
M4-.70	SH4-70-2.0	0.50-2.00	6.35	9.53	0.68	9.78	7.49	6.35
	SH4-70-3.3	2.00-3.30	6.35	9.53	0.68	11.05	7.49	6.35
M5-.80	SH5-80-3.3	0.50-3.30	7.10	9.91	0.68	11.05	6.99	7.14
	SH5-80-5.7	3.30-5.70	7.10	9.91	0.68	13.59	6.99	7.14
M6-1.0	SH6-10-4.2	0.70-4.20	9.50	12.96	0.76	14.86	10.16	9.53
	SH6-10-6.6	4.20-6.60	9.50	12.96	0.76	17.40	10.16	9.53
M8-1.25	SH8-125-3.8	0.70-3.80	12.70	16.64	0.89	17.40	13.46	12.70
	SH8-125-7.9	3.80-7.90	12.70	16.64	0.89	21.46	13.08	12.70
M10-1.5	SH10-15-3.8	0.70-3.80	12.70	16.64	0.89	17.40	13.46	12.70
	SH10-15-7.9	3.80-7.90	12.70	16.64	0.89	21.46	13.08	12.70

CLOSED END STYLE ALSO AVAILABLE. PLEASE CALL FOR AVAILABILITY.



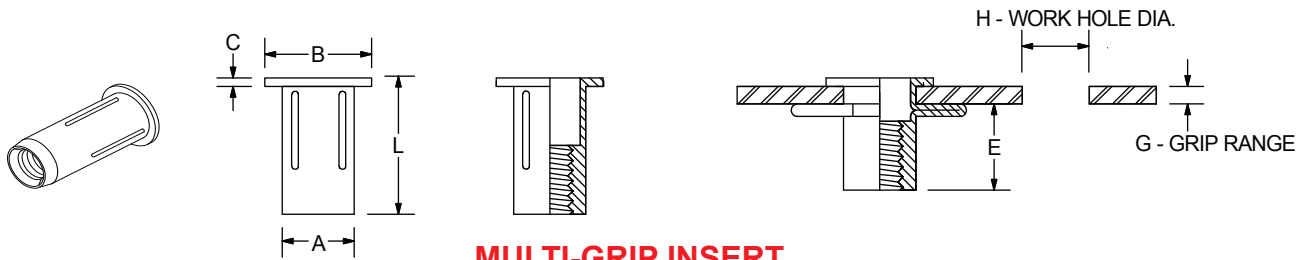
SQUARESERT® INSERT

THREAD SIZE	STEEL YELLOW ZINC PART NUMBER	GRIP RANGE "G"	BODY DIAMETER (MAX.) "A"	HEAD DIAMETER ACROSS FLATS (MAX.) "B"	HEAD HEIGHT (MAX.) "C"	OVERALL LENGTH (MAX.) "L"	REFERENCE "E"	RECOMMENDED SQUARE HOLE ACROSS FLATS "H"
8-32	0GK05-00814	.50-1.50MM	7.10MM	10.50MM	0.90MM	11.40MM	8.20MM	7.30MM
10-24	0GK05-01014	.50-1.50MM	7.10MM	10.50MM	0.90MM	11.40MM	8.20MM	7.30MM
10-32	0GK07-01014	.50-1.50MM	7.10MM	10.50MM	0.90MM	11.40MM	8.20MM	7.30MM
1/4-20	0GK04-00819	.50-2.00MM	9.10MM	13.20MM	0.95MM	15.50MM	9.90MM	9.30MM
5MM	0GJ08-00514	.50-1.50MM	7.10MM	10.50MM	0.65MM	11.40MM	8.20MM	7.30MM
6MM	0GJ08-00619	.50-2.00MM	9.10MM	13.20MM	0.95MM	15.50MM	9.90MM	9.30MM
8MM	0GJ08-02823	1.00-3.00MM	11.10MM	18.00MM	1.65MM	18.90MM	11.80MM	11.30MM

See page C69 for
installation tools

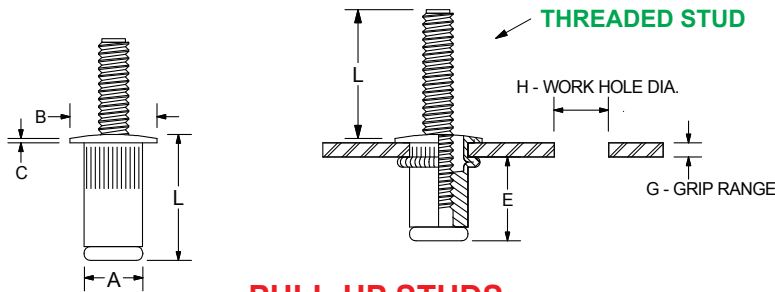


THREADED INSERTS



MULTI-GRIP INSERT

THREAD SIZE	STEEL YELLOW ZINC PART NUMBER	GRIP RANGE "G"	BODY DIAMETER (MAX.) "A"	FLANGE DIAMETER "B"	FLANGE HEIGHT "C"	LENGTH "L"	REFERENCE "E"	WORK HOLE DIAMETER "H"
1/4-20	S25MG280	.020-.280	.384	.625	.057	1.000	.520	.390
	S25MG500	.280-.500	.384	.625	.057	1.235	.520	.390
5/16-18	S31MG280	.020-.280	.482	.750	.062	1.118	.570	.488
	S31MG500	.280-.500	.482	.750	.062	1.348	.570	.488
M6-1.0	S6MG7.1	0.50-7.10	9.75	15.88	1.45	25.40	13.20	9.91
	S6MG12.7	7.10-12.10	9.75	15.88	1.45	31.34	13.20	9.91
M8-1.25	S8MG7.1	0.50-7.10	12.25	19.05	1.57	28.40	14.48	12.40
	S8MG12.7	7.10-12.10	12.25	19.05	1.57	34.24	14.48	12.40



PULL-UP STUDS

STUD THREAD SIZE	STEEL - YELLOW ZINC - PART NUMBER			GRIP RANGE "G"	BODY DIAMETER (MAX.) "A"	FLANGE DIAMETER "B"	FLANGE HEIGHT "C"	LENGTH (MAX.) "L"	REFERENCE "E"	WORK HOLE DIAMETER "H"
	THE LAST DIGITS OF PART NUMBER ARE THE STUD LENGTH "L" (AT MAX GRIP)									
6-32	PS6-32-80-500	PS6-32-80-625	PS6-32-80-750	.020-.080	.265	.390	.030	.490	.375	.266
	PS6-32-130-450	PS6-32-130-575	PS6-32-130-700	.080-.130	.265	.390	.030	.540	.375	.266
8-32	PS8-32-80-500	PS8-32-80-625	PS8-32-80-750	.020-.080	.265	.390	.030	.490	.375	.266
	PS8-32-130-450	PS8-32-130-575	PS8-32-130-700	.080-.130	.265	.390	.030	.540	.375	.266
10-24	PS10-24-130-500	PS10-24-130-625	PS10-24-130-750	.020-.130	.296	.415	.030	.545	.385	.297
	PS10-24-225-405	PS10-24-225-530	PS10-24-225-655	.130-.225	.296	.415	.030	.655	.385	.297
10-32	PS10-32-130-500	PS10-32-130-625	PS10-32-130-750	.020-.130	.296	.415	.030	.545	.385	.297
	PS10-32-225-405	PS10-32-225-530	PS10-32-225-655	.130-.225	.296	.415	.030	.655	.385	.297
1/4-20	PS250-20-165-625	PS250-20-165-8125	PS250-20-165-1000	.027-.165	.390	.500	.030	.670	.470	.391
	PS250-20-260-530	PS250-20-260-7175	PS250-20-260-905	.165-.260	.390	.500	.030	.770	.470	.391
5/16-18	PS312-18-150-625	PS312-18-150-875	PS312-18-150-1125	.027-.150	.530	.685	.035	.805	.585	.531
	PS312-18-312-463	PS312-18-312-713	PS312-18-312-963	.150-.312	.530	.685	.035	.920	.540	.531
3/8-16	PS375-16-150-750	PS375-16-150-1000	PS375-16-150-1250	.027-.150	.530	.685	.035	.805	.585	.531
	PS375-16-312-588	PS375-16-312-838	PS375-16-312-1088	.150-.312	.530	.685	.035	.920	.540	.531
M4-7.0	PS4-70-2.0-12.0	PS4-70-2.0-15.0	PS4-70-2.0-20.0	0.50-2.00	6.73	9.91	0.76	12.45	9.53	6.75
	PS4-70-3.3-10.7	PS4-70-3.3-13.7	PS4-70-3.3-18.7	2.00-3.30	6.73	9.91	0.76	13.72	9.53	6.75
M5-8.0	PS5-80-3.3-12.0	PS5-80-3.3-15.0	PS5-80-3.3-20.0	0.50-3.30	7.52	10.54	0.76	13.85	9.78	7.60
	PS5-80-5.7-9.6	PS5-80-5.7-12.6	PS5-80-5.7-17.6	3.30-5.70	7.52	10.54	0.76	16.64	9.78	7.60
M6-1.0	PS6-10-4.2-15.0	PS6-10-4.2-20.0	PS6-10-4.2-25.0	0.70-4.20	9.91	12.70	0.76	17.02	11.94	10.00
	PS6-10-6.6-12.6	PS6-10-6.6-17.6	PS6-10-6.6-22.6	4.20-6.60	9.91	12.70	0.76	19.56	11.94	10.00
M8-1.25	PS8-125-3.8-16.0	PS8-125-3.8-22.0	PS8-125-3.8-28.0	0.70-3.80	13.46	17.40	0.89	20.45	14.86	13.50
	PS8-125-7.9-11.9	PS8-125-7.9-17.9	PS8-125-7.9-23.9	3.80-7.90	13.46	17.40	0.89	23.37	13.72	13.50
M10-1.5	PS10-150-3.8-20.0	PS10-150-3.8-25.0	PS10-150-3.8-30.0	0.70-3.80	13.46	17.40	0.89	20.45	14.86	13.50
	PS10-150-7.9-5.9	PS10-150-7.9-20.9	PS10-150-7.9-25.9	3.80-7.90	13.46	17.40	0.89	23.37	13.72	13.50

HANSON RIVET

& SUPPLY CO.

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See page C69 for
installation tools

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FAX: 818-485-0540

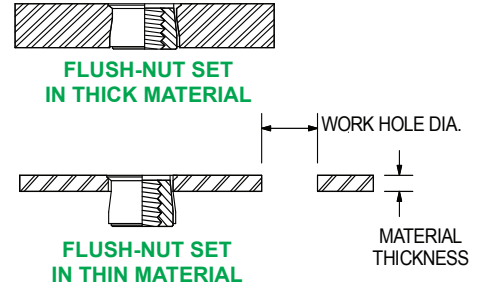
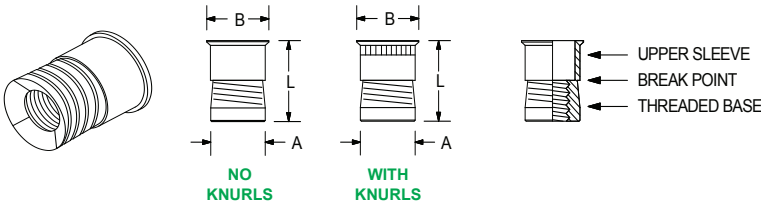
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FLUSH STYLE THREADED INSERTS

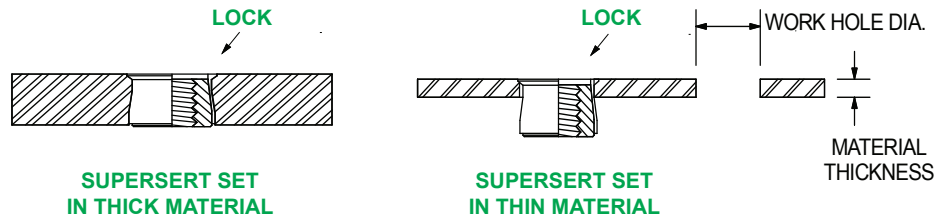
Hanson's Flush-Nuts are a versatile Threaded Insert that can be installed in any thickness of material over .030". Metal, plastic, fiberglass, or any rigid material will accept Flush-Nuts. During installation the base is drawn up into the upper sleeve swelling it in the work piece. After installation the head is virtually flush with the work.



FLUSH-NUT

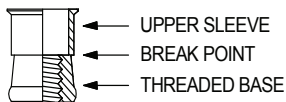
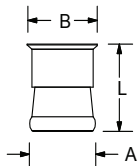
THREAD SIZE	STEEL		ALUMINUM		BODY DIAMETER (MAX) "A"	FLANGE DIAMETER "B"	LENGTH "L"	WORK HOLE DIAMETER FOR MATERIAL THICKNESS:			
	NO KNURLS	WITH KNURLS	NO KNURLS	WITH KNURLS				.030-.090	.091-.124	.125-.186	OVER .186
4-40	TS440	TSK440	TA440	TAK440	.188	.211	.370	.188	.194	.194	.196
6/32	TS632	TSK632	TA632	TAK632	.219	.240	.370	.219	.221	.228	.228
8-32	TS832	TSK832	TA832	TAK832	.250	.269	.370	.250	.257	.266	.266
10-32	TS1032	TSK1032	TA1032	TAK1032	.281	.306	.370	.281	.290	.290	.297
10-24	TS1024	TSK1024	TA1024	TAK1024	.281	.306	.370	.281	.290	.290	.297
1/4-20	TS2520	TSK2520	TA2520	TAK2520	.375	.400	.515	.375	.375	.386	.391
1/4-28	TS2528	TSK2528	TA2528	TAK2528	.375	.400	.515	.750	.375	.386	.391
5/16-18	TS51618	TSK51618	TA51618	TAK51618	.500	.528	.615	.500	.500	.516	.516
3/8-16	TS3816	TSK3816	TA3816	TAK3816	.562	.588	.745	.562	.563	.578	.578
1/2-13	TS5013	TSK5013	TA5013	TAK5013	.749	.800	.935	.750	.766	.781	.797
3.5MM	TSM3.5	TSKM3.5	TAM3.5	TAKM3.5	.188	.211	.370	.187	.193	.193	.196
4MM	TSM4	TSKM4	TAM4	TAKM4	.250	.269	.370	.250	.256	.265	.265
5MM	TSM5	TSKM5	TAM5	TAKM5	.280	.306	.370	.281	.290	.291	.297
6MM	TSM6	TSKM6	TAM6	TAKM6	.375	.400	.515	.375	.375	.386	.390
8MM	TSM8	TSKM8	TAM8	TAKM8	.500	.528	.615	.500	.500	.515	.515
10MM	TSM10	TSKM10	TAM10	TAKM10	.561	.588	.745	.562	.562	.578	.578
12MM	TSM12	TSKM12	TAM12	TAKM12	.749	.800	.935	.750	.765	.781	.797

Superserts® work the same as Flush-Nuts except they have a mechanical locking mechanism for greater push and pull out strength. They require a special nose piece on the tool to lock them into the work.



SUPERSERT®

STEEL
YELLOW ZINC
FINISH



THREAD SIZE	PART NUMBER	BODY DIAMETER (MAX.) "A"	BODY LENGTH (MAX.) "B"	WORK HOLE DIAMETER FOR MATERIAL THICKNESS:				
				.031-.063	.063-.090	.091-.126	.126-.156	OVER .156
8-32	0FB08-00814	.250	.455	.250	.250	.252	.256	.260
10-32	0FB07-01014	.281	.455	.281	.287	.291	.295	.295
1/4-20	0FB04-00816	.375	.525	.375	.378	.382	.386	.386
3MM	0FB08-00313	.187	.415	.187	.187	.189	.193	.193
4MM	0FB08-00414	.249	.455	.250	.250	.252	.256	.260
5MM	0FB08-00514	.280	.455	.281	.288	.291	.295	.295
6MM	0FB08-00616	.375	.525	.375	.378	.382	.386	.386
8MM	0FB08-00820	.499	.625	.500	.500	.504	.508	.512

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THREADED INSERT INSTALLATION TOOLS

WRENCH TYPE INSTALLATION TOOLS

L845 will set 4-40, 6-32, 8-32,
10-32, 1/4-20, 1/4-28 in steel
L722 will set 5/16-18, 5/16-24, 3/8-16,
3/8-24, 1/2-13, 1/2-20, M8, M10 in steel
Please specify size when ordering.

PNT110 LIGHT DUTY HAND TOOL

Will set Thin-Wall & Flush Style
Threaded Inserts up to 1/4-20 in steel
and Thick-Wall up to 1/4-20 in aluminum.
Comes with 6-32, 8-32, 10-24, 10-32 & 1/4-20 Mandrels.

L6000 MEDIUM DUTY HAND TOOL

WITH QUICK THREAD MANDREL
Will set Threaded Inserts up to
1/4" in aluminum and up to
10-32 in stainless.
Please specify size when ordering.

PNT310 HEAVY DUTY HAND TOOL

WITH QUICK THREAD MANDREL
Will set Thin-Wall & Flush Style
Threaded Inserts up to 5/16-18 in stainless
and Thick-Wall up to 1/2-13 in aluminum.
Comes with 10-24, 10-32, 1/4-20, 5/16-18 & 3/8-16 Mandrels.

800 SERIES PNEUMATIC SPIN-SPIN TOOLS

Designed for Thin-Wall & Flush
Threaded Inserts 4-40 thru 1/2-20.
Please specify size when ordering.
(Available in kit form with multiple set-ups)

900 SERIES IN-LINE PNEUMATIC SPIN-SPIN TOOLS

Designed for Thin-Wall & Flush
Threaded Inserts 4-40 thru 1/4-20.
Please specify size when ordering.

908 RIGHT-ANGLE ADAPTOR FOR SPIN-SPIN TOOLS

Will fit on the 800 and 900 series tools
and is designed for Thin-Wall & Flush
Threaded Inserts 4-40 thru 1/4-20.
It fits between the tool body and nose assembly.

KJ60A SPIN-PULL-SPIN MEDIUM DUTY PRODUCTION TOOL PNEUMATIC / HYDRAULIC

The mandrel spins to load insert,
second it retracts to set the insert,
and third it reverses.
This is all done in a few seconds!
The tool comes in a carrying case
with 6-32 thru 5/16-18 tooling.
Capacity in Steel:
Thin-Wall 5/16-18 / Thick-Wall 1/4-20

NEW!
One Button Activation

KJ45A SPIN-PULL-SPIN HEAVY DUTY PRODUCTION TOOL PNEUMATIC / HYDRAULIC

The mandrel spins to load insert,
second it retracts to set the insert,
and third it reverses.
This is all done in a few seconds!
The tool comes in a carrying case
with 6-32 thru 1/2-13 tooling.
Capacity in Steel:
Thin-Wall 1/2-13 / Thick-Wall 3/8-16

742 SPIN-PULL-SPIN HEAVY DUTY PRODUCTION TOOL PNEUMATIC / HYDRAULIC

The mandrel spins to load insert,
second it retracts to set the insert,
and third it reverses automatically
thus eliminating double strokes.
This is all done in a few seconds!
This tool uses standard socket head
screws for mandrels!
Capacity in Steel:
Thin-Wall 3/8-16 / Thick-Wall 5/16-18

FIRE-BIRD CORDLESS TOOL BATTERY OPERATED RECHARGEABLE

Spin-Pull-Spin action in a cordless tool!
Comes with 8-32, 10-32 & 1/4-20 tooling.
The kit comes complete in a carrying case
with a battery & charger.
Capacity in Steel:
Thin-Wall 5/16-18 / Thick-Wall 1/4-20

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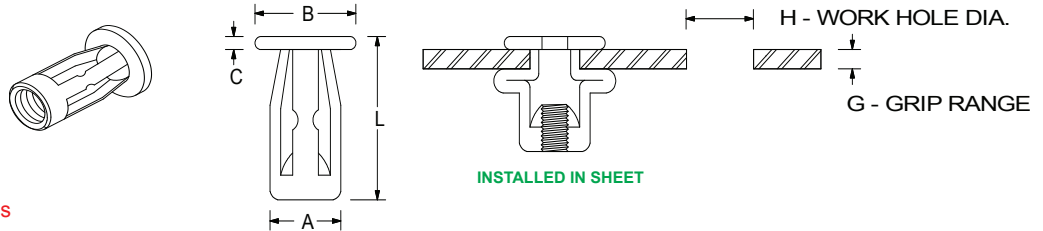
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JACK-NUT® THREADED INSERTS

JACK-NUTS® are an economical Threaded Insert designed for use in thin, soft or brittle materials.
During installation the body collapses on the back side to form legs which grip the inside of the mounting surface.



- Fastens in blind holes
- Won't distort soft plastics
- Not hole diameter sensitive
- Can be installed in uneven materials
- One-step installation with manual or pneumatic tools

THREAD SIZE	PART NUMBER	POP®	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	LENGTH OVER ALL "L"	HEAD DIAMETER "B"	HEAD HEIGHT "C"	TEST RESULTS (See Note)			
									TEST PLATE HOLE DIA.	TEST PLATE THICKNESS	ULTIMATE TORQUE (in.-lbs.)	ULTIMATE TENSILE (lbs.)
6-32	RJN-06-187	4SJN	.318	.318/.330	.015-.187	.653	.468	.073	.328	.187	18	433
	RJN-06-375	4LJN	.318	.318/.330	.188-.375	.841	.468	.073	.328	.375	18	386
10-24	RJN-10-187	6SJN	.382	.382/.400	.015-.187	.716	.531	.073	.390	.187	31	640
	RJN-10-375	6LJN	.382	.382/.400	.188-.375	.888	.531	.073	.390	.375	31	554
1/4-20	RJN-25-187	8SJN	.438	.438/.450	.015-.187	.731	.625	.073	.438	.187	41	820
	RJN-25-375	8LJN	.438	.438/.450	.188-.375	.919	.625	.073	.438	.375	41	806
	RJN-25-500	8XLJN	.438	.438/.450	.376-.500	1.094	.625	.073	.438	.500	41	855

Standard material: STEEL ZINC FINISH (BRASS is available as a special order and may be subject to a minimum order quantity)
NOTE: Values for tightening torques and ultimate tensile strengths are a guide only and may vary greatly upon the application.

JACK-NUT® INSTALLATION TOOLS

<p>JNT 1100 FRICTION WRENCH</p> <p>For use when installing a limited quantity of Jack-Nuts®. Place the wrench between screw and head of insert, hold wrench and run in screw to set Jack-Nut®</p>	<p>JNT 2200 LIGHT DUTY HAND TOOL</p> <p>An economical tool for low volume intallation in any material. Thread Jack-Nut® on to the madrel, insert into hole and squeeze handles to set. Tool comes with one madrel. Additional mandrels available to set all sizes.</p>
<p>JNT 2400 HEAVY DUTY HAND TOOL</p> <p>This rugged tool comes with all mandrels to set 6-32, 10-24 and 1/4-20 Jack-Nuts®.</p>	<p>JNT 7529 & JNT 7530 SPIN-SPIN AIR TOOL</p> <p>For high volume setting of Jack-Nuts®. These torque adjustable tools set the insert by rotation, automatically compensating for material thickness variations. Reverses for removal. Tool comes set-up for one size. JNT 7529: 750 rpm., 50in.-lbs. torque. JNT 7530: 2300 rpm., 15in.-lbs. torque.</p>

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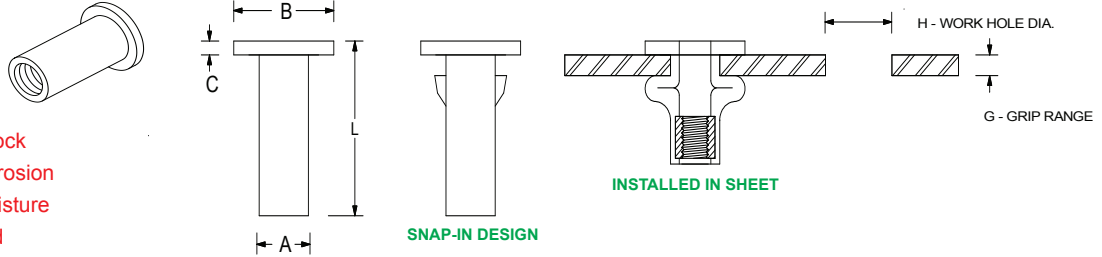
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RUBBER-NUT THREADED INSERTS

WELL-NUTS® are a flanged rubber bushing with a brass machine nut molded into one end.
When seated in the work piece, a conventional machine screw is threaded through the head of the Well-Nut® into the brass nut and tightened. This causes the insert to expand, making a secure fastening.

- Removable
- Muffles noise
- Fastens in blind holes
- Easy one-step installation
- Dampens vibration and shock
- Helps prevent galvanic corrosion
- Helps seal out ambient moisture
- No installation tool required



THREAD SIZE	PART NUMBER	POP®	BODY DIAMETER "A"	WORK HOLE DIAMETER "H"	GRIP RANGE "G"	LENGTH OVER ALL "L"	HEAD DIAMETER "B"	HEAD HEIGHT "C"	TEST RESULTS (See Note)		
									TEST PLATE THICKNESS	TIGHTENING TORQUE (in.-lbs.)	ULTIMATE TENSILE (lbs.)
6-32	RN-0632-1	C632	.240	.250	.375-.607	.981	.554	.035	.500	3	115
	RN-0632-2	E632	.312	.312	.015-.156	.499	.452	.062	.062	4	114
8-32	RN-0832-1	B832	.312	.312	.015-.156	.499	.438	.052	.062	3	146
	RN-0832-2	C832**	.312	.312	.015-.172	.560	.750	.060	.063	3	130
	RN-0832-3	2D832**	.310	.312	.015-.050	.430	.500	.050	.031	5	91
10-24	RN-1024-1	A1024**	.375	.375	.015-.050	.562	.562	.125	.031	5	156
	RN-1024-2	L1024**	.375	.375	.030-.227	.767	.562	.187	.125	5	95
10-32	RN-1032-1	10S	.375	.375	.015-.192	.554	.500	.036	.125	5	230
	RN-1032-2	10SL	.375	.375	.312-.643	1.051	.562	.051	.500	3	315
	RN-1032-3	10XL**	.375	.375	.812-1.143	1.551	.562	.051	1.050	10	371
	RN-1032-4	G1032	.375	.375	.030-.227	.807	.750	.187	.125	5	277
	RN-1032-5	H1032	.375	.375	.312-.450	.847	.554	.035	.375	3	260
	RN-1032-6	J1032	.375	.375	.030-.227	.700	.750	.080	.125	5	225
	RN-1032-7	NP1032*	.375	.375	.015-.050	.400	.510	.059	.050	5	230
	RN-1032-8	N1032**	.375	.375	.015-.050	.431	.625	.051	.050	5	150
	RN-1032-9	Q1032	.375	.375	.035-.232	.665	.562	.040	.125	5	265
1/4-20	RN-2520-01	HSCM6X1**	.492	.500	.015-.094	.630	.580	.060	.075	10	225
	RN-2520-02	EM6X1**	.492	.500	.015-.094	.630	.679	.051	.031	14	120
	RN-2520-03	ACM6X1**	.492	.500	.015-.062	.630	.787	.051	.062	10	294
	RN-2525-04	1/4A**	.500	.500	.015-.050	.629	.629	.111	.075	10	290
	RN-2520-05	1/4S	.500	.500	.015-.111	.630	.630	.051	.075	10	230
	RN-2520-06	D1420	.500	.500	.031-.187	.829	.750	.187	.187	15	280
	RN-2520-07	J1420	.500	.500	.250-.457	1.051	.635	.051	.250	10	445
	RN-2520-08	JM1420**	.500	.500	.215-.422	1.440	.635	.440	.250	20	140
	RN-2520-09	M6X1**	.500	.500	.015-.094	.630	.787	.051	.075	10	223
	RN-2520-10	MDM6X1**	.500	.500	.031-.187	.829	.740	.187	.187	15	310
	RN-2520-11	MDLM6X1**	.500	.500	.031-.187	.829	.945	.187	.187	15	310
	RN-2025-12	W1420	.500	.500	.187-.343	.801	.635	.051	.187	10	360
	RN-2025-13	AC1420**	.562	.562	.280-.500	1.301	.635	.051	.397	20	251
5/16-18	RN-3118-1	ET51618**	.618	.625	.015-.118	1.102	.874	.334	.125	8	386
	RN-3118-2	E51618	.620	.625	.015-.156	.725	.875	.125	.151	25	457
	RN-3118-3	F51618**	.620	.625	.156-.375	1.100	.875	.225	.375	15	558
	RN-3118-4	A51618**	.748	.750	.015-.237	1.063	1.260	.197	.187	20	441
3/8-16	RN-3716-1	A3816	.750	.750	.015-.437	1.062	1.250	.187	.437	20	1500
	RN-3716-2	Z3816**	.750	.750	.015-.125	1.050	1.730	.350	.125	30	1125

* Has the Snap-in-Design. ** May be subject to minimum production run and lead time, please call for availability.

NOTE: Values for tightening torques and ultimate tensile strengths are a guide only and may vary greatly depending upon the application.

360900 WELL-NUT® & JACK NUT® R&D KIT

Includes 6 Well-Nut
and 6 Jack-Nut styles
which are representative of the
capabilities of these product lines.

WNK-200N MARINE WELL-NUT® KIT

Contains an assortment of
Well-Nut Threaded Inserts
for numerous marine applications.
They are designed to seal out ambient
moisture, muffle noise, and dampen vibration.

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See pages C82-C85 for
installation tools

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SELF-CLINCHING FASTENERS

Captive® Self-Clinching Fasteners are designed to be installed in sheet metal and PC Boards. They provide a permanently attached threaded fastener which becomes an integral part of the panel or frame and eliminates the challenges associated with loose hardware. They are typically pressed into pre-punched holes using Squeezers (page C82-85), many types of presses and Auto-Feed Rivet Machines (page C88-89).

Please call us for a complete detailed catalog for these fasteners.

Self-Clinching Nut	Broaching Nut for PC Boards	Miniature Self-Clinching Self-Locking Nut	Self-Clinching Flush Nut	Self-Clinching Nut for Stainless Steel
Weld Nut	Self-Clinching Top Collar Lock Nut	Self-Clinching Floating Lock Nut	Self-Clinching Blind Nut	Thin Head Standoff
Self-Clinching Standoff	Self-Clinching Grounding Standoff	Self-Clinching Stud, Flush Head	Self-Clinching Stud, High Torque	Close-to-Edge Stud
Self-Clinching Stud, Thin Sheet	400 Series Stainless Steel Stud	Unthreaded Thru-Hole Standoff	Broaching Fasteners for PC Boards	Self-Clinching Pin
Self-Clinching Slide-Top Standoff	Spring-Top Standoff	Panel Screw Components	Self-Clinching Panel Fastener Assembly	Self-Clinching Plunger Assembly



SELF-CLINCHING FASTENERS

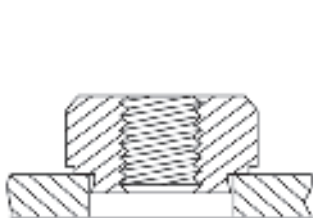
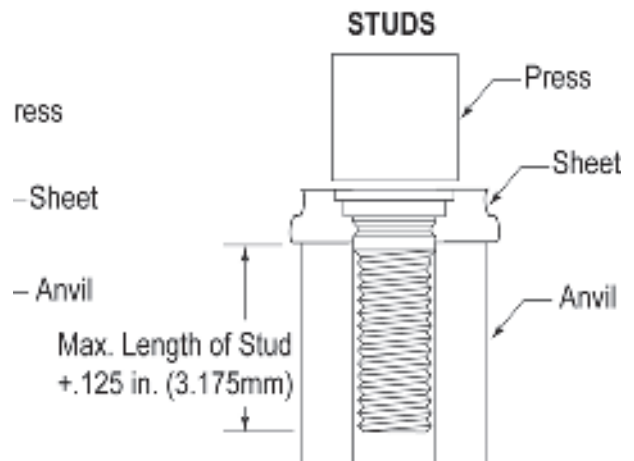
Installation Principles

Self-clinching fasteners install into a round hole which can be punched or drilled into ductile materials. Typically they are pressed into holes in sheet metal by applying a steady squeezing force. This results in the cold-flow of sheet material which is displaced by the knurl into the undercut area on the shank of the fastener. Once fully embedded, the knurled area prevents torque-out during tightening of mating part.

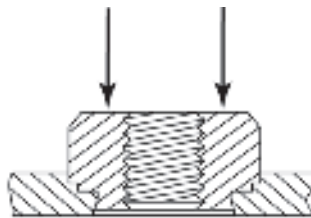
Boaching fasteners install into a round hole, which can be drilled into non-ductile materials. Once pressed into a printed circuit board or non-ductile material, they are held permanently in place by an interference fit.

Weld nuts are designed for attachment to carbon steel and stainless steel sheet material. They are self piloting into holes and are round, eliminating the need for indexing. Pilot shanks protect threads from weld splatter.

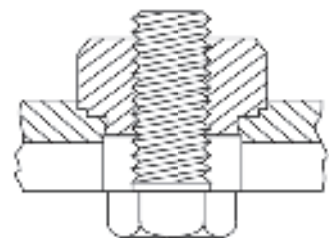
Both self-clinching and broaching types withstand high push-out and torque-out forces. Captive fasteners provide added value by speeding initial assembly as well as servicing in the field, keeping costs to a minimum.



Fastener must be installed
squarely in hole



Squeezing force is applied
to head of fastener



Install bolt or screw
from opposite side
of head of fastener

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Pacoima, CA 91331

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FAX: 818-485-0540

Outside CA: 1-800-RRRIVET

www.hansonrivet.com



THREADED CLINCH NUTS

.380/.390
.116/.122
AS SPECIFIED
.218/.223

.617/.633
.045/.055
AS SPECIFIED
.326/.333

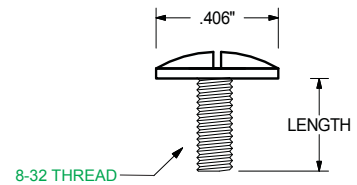
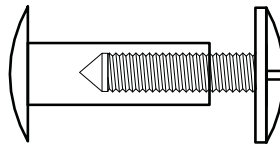
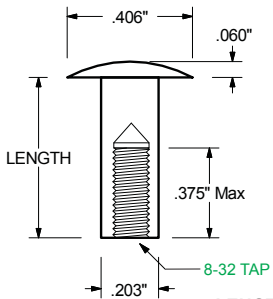
8-32 TAP STOCK SIZES	
PART NUMBER	LENGTH
RA-46331	3/16
RA-46332	1/4
RA-46333	5/16
RA-46334	3/8

1/4-20 TAP STOCK SIZES	
PART NUMBER	LENGTH
RA-46325	5/16
RA-46328	3/8
RA-46329	1/2
RA-46330	5/8

Hanson Clinch Nuts are internally threaded Tubular Rivets. The two styles above are some of our popular sizes we keep in stock in steel in the lengths noted. We can supply many different sizes, threads, head styles, materials, and finishes. Just let us know your requirements or use our Design-A-Rivet format on page C10.

Uses of Clinch Nuts are endless. They can be used to fasten two or more parts together like a standard Tubular Rivet while allowing additional parts to be attached with a screw. Some of the uses include: Abrasive Wheels, Stand -Offs, PC Boards, Electrical Contacts, Panel Mounting, and Electronic Enclosures. Installation is easy! Any of our riveters that will set a Tubular Rivets are ideal, including, Automatic Feed Machines, as seen on page C88 and C89 for high production. There is no faster way to put threads in thin sheets such as: Fibre Board, Metal, Plastic, Wood, Leather, Paper, Fiberglass, and Ceramic.

BINDER POSTS & SCREWS



		FEMALE BINDER POSTS			
		CLOSED TRUSS HEAD	CLOSED FLAT HEAD	TAPPED THRU TRUSS HEAD	TAPPED THRU FLAT HEAD
BRASS	LENGTH UNDER HEAD			BPBT-0804T	
	1/4				
	3/8	BPBT-0806			
	1/2	BPBT-0808			
	3/4	BPBT-0812			
	1	BPBT-0816			

MALE BINDER SCREWS	
LENGTH UNDER HEAD	BRASS
5/16	BSBT-05

ALUMINUM	3/16				BPAF-0803T
	1/4				BPAF-0804T
	3/8		BPAF-0804	BPAT-0804T	
	1/2	BPAT-0808	BPAF-0808	BPAT-0806T	
	5/8	BPAT-0810	BPAF-0810		BPAF-0808T
	3/4	BPAT-0812	BPAF-0812		
	7/8	BPAT-0814	BPAF-0814		
	1	BPAT-0816	BPAF-0816		
	1-1/4	BPAT-0820	BPAF-0820		
	1-1/2	BPAT-0824	BPAF-0824		
	1-3/4	BPAT-0828	BPAF-0828		
	2	BPAT-0832	BPAF-0832		
	2-1/4	BPAT-0836	BPAF-0836		
	2-1/2	BPAT-0840	BPAF-0840		
	2-3/4	BPAT-0844	BPAF-0844		
	3	BPAT-0848	BPAF-0848		
	3-1/4	BPAT-0852			
	3-1/2	BPAT-0856			
	4	BPAT-0864			
	4-1/2	BPAT-0872			
5	BPAT-0880				

LENGTH UNDER HEAD	ALUMINUM
3/16	BSAT-03
1/4	BSAT-04
3/8	BSAT-06

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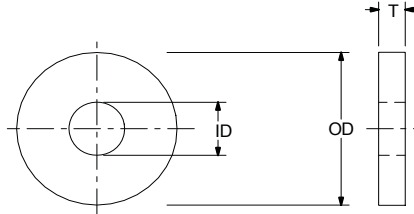
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WASHERS



BASIC PART NUMBER	INSIDE DIAMETER "ID"	OUTSIDE DIAMETER "OD"	THICKNESS "T"
BUP-4	.131	.375	.060
BUP-4S	.131	.312	.032
BUP-5	.162	.437	.060
BUP-5S	.162	.437	.032
BUP-5-6	.162	.375	.060
BUP-6	.194	.500	.060
BUP-6S	.194	.500	.030
BUP-6-6	.194	.375	.060
BUP-8	.259	.625	.060
WS-0808	.125	.250	.060
WS-1020	.156	.625	.048
WA-1324	.200	.750	.030
960-2	.099	.250	.032
960-3	.105	.250	.032
960-4	.125	.312	.032
960-4L	.125	.312	.016
960-5	.140	.438	.042
960-6	.149	.375	.032
960-6L	.149	.375	.016
960-8	.174	.375	.032
960-9	.188	.500	.049
960-10	.203	.438	.063
960-10L	.203	.438	.032
960-11	.234	.625	.065
960-416	.265	.500	.063
960-516	.328	.562	.063
960-616	.390	.625	.063
960-716	.453	.750	.063
960-816	.515	.875	.063
MS15795-206	.156	.375	.049
MS27183-7	.187	.375	.050
MS27183-42	.218	.500	.046
NAS620-0	.063	.099	.016
NAS620-5	.128	.238	.032
NAS620-10L	.195	.354	.032
#10 SAE	7/32	1/2	18 GA (3/64)
#12 SAE	1/4	9/16	18 GA (3/64)
1/4 SAE	9/32	5/8	16 GA (1/16)
5/16 SAE	11/32	11/16	16 GA (1/16)

Standard materials: **STEEL • ALUMINUM • BRASS • COPPER • STAINLESS STEEL • MONEL**
Many finishes are available. We also stock many non-standard sizes, please call us with your requirements.

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DRILL BITS & COUNTERSINKS

MAGNUM SUPER PREMIUM DRILL BITS

These bits are made of a special Hi-Molybdenum tool steel which is much tougher than cobalt steel. They have a Split-Point design that makes the bit self-centering and non-walking. **SELF-CENTERING • NO DRILL WALKING • LONGER CUTTING LIFE CUTS HARDER MATERIALS • HOLDS TIGHTER HOLE SIZE RUNS COOLER • USES LESS TORQUE**

TYPE 190-AG JOBBERS LENGTH DRILLS

BIT SIZE	DECIMAL EQUIVALENT	BIT SIZE	DECIMAL EQUIVALENT	BIT SIZE	DECIMAL EQUIVALENT
1/16	.0625	A	.2340	18	.1695
5/64	.0781	B	.2380	19	.1660
3/32	.0938	C	.2420	20	.1610
7/64	.1094	D	.2460	21	.1590
1/8	.1250	E	.2500	22	.1570
9/64	.1406	F	.2570	23	.1540
5/32	.1563	G	.2610	24	.1520
11/64	.1719	H	.2660	25	.1495
3/16	.1875	I	.2720	26	.1470
13/64	.2031	J	.2770	27	.1440
7/32	.2188	K	.2810	28	.1405
15/64	.2344	L	.2900	29	.1360
1/4	.2500	M	.2950	30	.1285
17/64	.2656	N	.3020	31	.1200
9/32	.2813	O	.3160	32	.1160
19/64	.2969	P	.3230	33	.1130
5/16	.3125	Q	.3320	34	.1110
21/64	.3281	R	.3390	35	.1100
11/32	.3438	S	.3480	36	.1055
23/64	.3594	T	.3580	37	.1040
3/8	.3750	U	.3680	38	.1015
25/64	.3906	V	.3770	39	.0995
13/32	.4063	W	.3860	40	.0980
27/64	.4219	X	.3970	41	.0960
7/16	.4375	Y	.4040	42	.0935
29/64	.4531	Z	.4130	43	.0890
15/32	.4688	1	.2280	44	.0860
31/64	.4844	2	.2210	45	.0820
1/2	.5000	3	.2130	46	.0610
33/64	.5156	4	.2090	47	.0785
17/32	.5313	5	.2055	48	.0760
35/64	.5469	6	.2040	49	.0730
9/16	.5625	7	.2010	50	.0700
37/64	.5781	8	.1990	51	.0670
19/32	.5938	9	.1960	52	.0635
39/64	.6094	10	.1935	53	.0595
5/8	.6250	11	.1910	54	.0550
41/64	.6406	12	.1890	55	.0520
21/32	.6563	13	.1850	56	.0465
43/64	.6719	14	.1820	57	.0430
11/16	.6875	15	.1800	58	.0420
45/64	.7031	16	.1770	59	.0410
23/32	.7188	17	.1730	60	.0400
47/64	.7344				
3/4	.7500				

TYPE 130-AG 1/2" SHANK S & D DRILLS

6" overall length, 3 flats on shank

BIT SIZE	DECIMAL EQUIVALENT	BIT SIZE	DECIMAL EQUIVALENT	BIT SIZE	DECIMAL EQUIVALENT
33/64	.5156	3/4	.7500	63/64	.9844
17/32	.5313	49/64	.7656	1	1.0000
35/64	.5469	25/32	.7813	1-1/32	1.0313
9/16	.5625	51/64	.7969	1-1/16	1.0625
37/64	.5781	13/16	.8125	1-3/32	1.0938
19/32	.5938	53/64	.8281	1-1/8	1.1250
39/64	.6094	27/32	.8438	1-5/32	1.1563
5/8	.6250	55/64	.8594	1-3/16	1.1875
41/64	.6406	7/8	.8750	1-7/32	1.2188
21/32	.6563	57/64	.8906	1-1/4	1.2500
43/64	.6719	29/32	.9063	1-5/16	1.3125
11/16	.6875	59/64	.9219	1-3/8	1.3750
45/64	.7031	15/16	.9375	1-7/16	1.4375
23/32	.7188	61/64	.9531	1-1/2	1.5000
47/64	.7344	31/32	.9688		

TYPE 175-AG MECHANICS LENGTH DRILLS

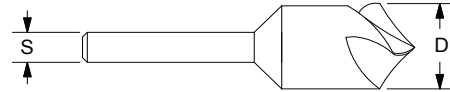
Shorter lengths, 3 flats on shank on 3/16" and larger

BIT SIZE	DECIMAL EQUIVALENT	BIT SIZE	DECIMAL EQUIVALENT	BIT SIZE	DECIMAL EQUIVALENT
1/16	.0625	7/32	.2188	3/8	.3750
5/64	.0781	15/64	.2344	25/64	.3906
3/32	.0938	1/4	.2500	13/32	.4063
7/64	.1094	17/64	.2656	27/64	.4219
1/8	.1250	9/32	.2813	7/16	.4375
9/64	.1406	19/64	.2969	29/64	.4531
5/32	.1563	5/16	.3125	15/32	.4688
11/64	.1719	21/64	.3281	31/64	.4844
3/16	.1875	11/32	.3438	1/2	.5000
13/64	.2031	23/64	.3594		

TYPE 178-AG 3/8" SHANK MECHANICS LENGTH DRILLS

3 Flats on Shank

BIT SIZE	DECIMAL EQUIVALENT	BIT SIZE	DECIMAL EQUIVALENT	BIT SIZE	DECIMAL EQUIVALENT
13/32	.4063	29/64	.4531	31/64	.4844
27/64	.4219	15/32	.4688	1/2	.5000
7/16	.4375				



COUNTERSINKS - SPIRAL FLUTE

100° Standard Included Angle
(82 & 90 Degree Special Order)

"D"	"S"	PART NUMBER	"D"	"S"	PART NUMBER	"D"	"S"	PART NUMBER
1/4"	3/16"	CA4003-1	1/2"	1/4"	CA4003-5A	7/8"	1/2"	CA4003-8
1/4"	1/4"	CA4003-1A	1/2"	3/8"	CA4003-5A	1"	1/2"	CA4003-9
5/16"	1/4"	CA4003-2	5/8"	1/4"	CA4003-6A	1-1/8"	1/2"	CA4003-10
3/8"	1/4"	CA4003-3	5/8"	3/8"	CA4003-6A	1-1/4"	5/8"	CA4003-11
7/16"	1/4"	CA4003-4	3/4"	1/2"	CA4003-7	1-1/2"	3/4"	CA4003-12

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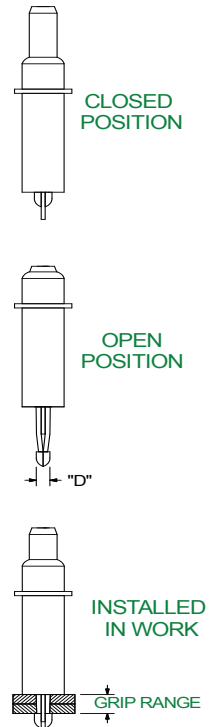
RIVETING CLAMPS

HANSON CLAMPS are a temporary fastener used to hold sheets and components together during riveting. They are typically installed every other hole. Rivets are installed in the remaining holes then clamps are removed.

PART NUMBER	COLOR CODE	GRIP RANGE	DIAMETER "D"	DRILL SIZE
HC-24	Black	0 to 1/4"	1/16"	51
HC-34	Zinc		3/32"	40
HC-44	Copper		1/8"	30
HC-54	Black		5/32"	20
HC-64	Brass		3/16"	11
HC-84	Copper		1/4"	F
HC-38	Zinc	0 to 1/2"	3/32"	40
HC-48	Copper		1/8"	30
HC-58	Black		5/32"	20
HC-68	Brass		3/16"	11
HC-88	Copper		1/4"	F
HC-312	Zinc	1/2" to 3/4"	3/32"	40
HC-412	Copper		1/8"	30
HC-512	Black		5/32"	20
HC-612	Brass		3/16"	11

HANSON CLAMP PLIERS are designed for fast, one handed installation, and removal of all sizes of temporary clamps. They are constructed of heavy-duty forged steel for many years of use.

PART NUMBER: HCP1



RIVETING TAPE

HANSON RIVETING TAPE is used for hand installation of multiple rivets in an assembly. Riveting tape is placed over the heads of rivets in an assembly to hold them in place during riveting. After the rivets are up-set, the tape is removed leaving no adhesive on rivet heads or components. This tape is thin and flexible enough to eliminate any conflict with tooling. Riveting tape is a tough polyester film with colored adhesive coating on the outside edges. The center section is clear and uncoated for ease of visibility of rivets and to eliminate the possibility of transferring adhesive to rivet heads during riveting.

PART NUMBER	OVERALL WIDTH	ADHESIVE WIDTH	CLEAR WIDTH	ROLL LENGTH
HRT-12	3/4"	3/16"	3/8"	36 yds.
HRT-16	1"	1/4"	1/2"	36 yds.

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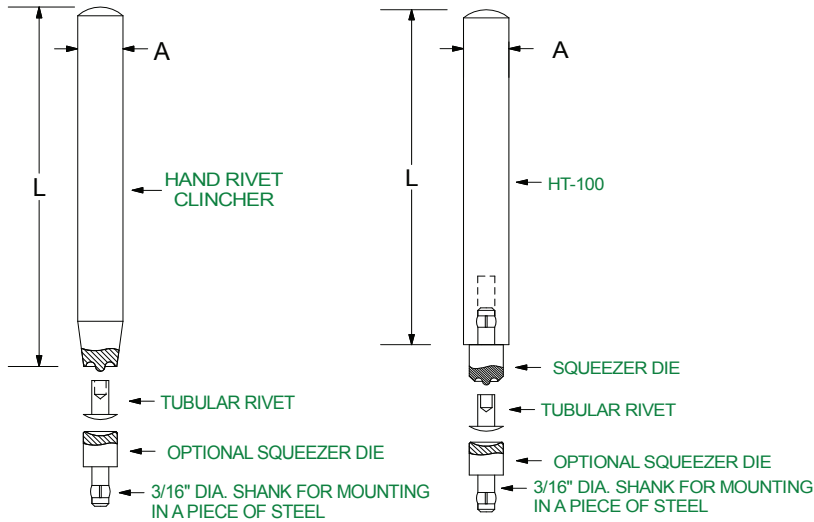
FAX: 818-485-0540

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HAND RIVET CLINCHERS



HANSON HAND CLINCHERS are designed to clinch tubular rivets and the HT-100 can be used to set tubular and solid rivets using our Squeezer Dies on page C83. These tools are operated by slight hammer blows to the top of the tool or they can be adapted to an arbor press or drill press.

PART NUMBER	RIVET DIAMETER	CLINCH TYPE	LENGTH "L"	DIAMETER "A"
S-959	.029	ROLL	3"	1/4"
S-1154	.040	ROLL	3"	1/4"
HT-350	1/16	ROLL	3-1/2"	5/16"
HT-180	.087	ROLL	4-1/4"	3/8"
HT-366	.097	ROLL	4-1/4"	3/8"
HT-174	1/8	ROLL	4-1/4"	3/8"
HT-175	9/64	ROLL	5"	1/2"
HT-178	5/32	ROLL	5"	1/2"
HT-171	3/16	ROLL	5"	1/2"
HT-179	7/32	ROLL	5"	1/2"
HT-176	1/4	ROLL	5"	1/2"
HT-151	5/16	ROLL	5"	5/8"
S-822	3/8	ROLL	5"	5/8"
S-1634	7/16	ROLL	5"	7/8"
T-1177	1/2	ROLL	6"	7/8"
T-147	9/64	STAR	5"	1/2"
T-240	3/16	STAR	5"	1/2"
T-241	1/4	STAR	4"	5/8"
HT-100	Hole in end to accept any Squeezer Die with a 3/16" diameter shank. See page C83.		5"	1/2"

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MODEL 915-1 BENCH RIVETER

Easily Operated by
Pulling the Handle Toward You!

The Model 915-1 is a low production rivet setter designed for light assembly operations. With its long handle and cam design, it develops a very strong squeezing action. The riveter has a 5-7/8" throat depth with a 7/8" stroke and its anvil height is adjustable for different rivet lengths. Just bolt to a bench and your are ready to rivet!

CAPACITY: 1/16" to 9/64" Diameter - up to 5/8" Long Steel Tubular or Split Rivets

PART NUMBER	MODEL 915-1 STANDARD TOOLS
T-811	Roll Clincher for 1/16" Diameter Rivets
T-772	Roll Clincher for .087" Diameter Rivets
T-790	Roll Clincher for .097" Diameter Rivets
T-771	Roll Clincher for 1/8" Diameter Rivets
T-764	Roll Clincher for 9/64" Diameter Rivets
T-374	Clincher for 9/64" Diameter Split Rivets
T-763	Star Clincher for 9/64" Diameter Rivets
T-767	Star Clincher for 3/16" Diameter Rivets
T-807	Anvil for 7/64" to 9/64" Diameter Oval or Truss Heads
T-808	Anvil for 3/16" to 7/32" Diameter Oval or Truss Heads
T-809	Anvil for 15/64" to 3/8" Diameter Oval or Truss Heads
T-51	Anvil for 1/4" Diameter Flat or Countersunk Heads
T-338	Anvil for 5/16" Diameter Flat or Countersunk Heads
T-766	Spring Rivet Holder for .281" to .375" Diameter Heads
T-791	Spring Rivet Holder for .187" to .234" Diameter Heads
T-792	Spring Rivet Holder for .140" Diameter Heads
T-802	Anvil Holder for 5/16" Diameter "Pin Anvils"
T-793	Anvil Holder*
T-794	Jam Nuts for T-793 Anvil Holder*
T-391	10-32 Allen Wrench*

*Included with riveter. All other tools sold separately.

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RIVETING HAMMERS & BITS

HANSON RIVETING HAMMERS are air powered and designed to set Solid and Tubular Rivets. With the proper Bit in the tool, the end of the bit is placed on the head for solid rivets or on the end of the shank for tubular rivets. A Bucking Bar or anvil is typically used to back up the other end of the rivet. Pressure is applied to the tool during riveting. Riveting hammers are often used to rivet large objects such as panels using one person on each side of the rivet. Select the proper air hammer and bits below.

MODEL	SIZE EQUIVALENT	BLOWS PER MIN.	RIVET DIAMETER CAPACITIES		
			SOLID ALUMINUM	SOLID STEEL	TUBULAR STEEL
CP-715		2,100	5/16"	1/4"	1/4"
CP-711		3,300	1/4"	3/16"	1/4"
CP-4444-RURAB	2X	2,580	1/8"	3/32"	5/32"
CP-4444-RUSAB	3X	2,160	3/16"	5/32"	1/4"
CP-4444-RUTAB	4X	1,740	1/4"	3/16"	1/4"

REPLACEMENT "BEE HIVE" SPRING PART # RG-TA046094

CUPPED BITS FOR SOLID AND TUBULAR RIVETS

BASIC PART NUMBER	RIVET STYLE					
CA1000-*	ROUND HEAD					
CA1001-*	BRAZIER HEAD					
CA1002-*	UNIVERSAL HEAD					
CA1102-*	TUBULAR - ROLL CLINCHER					
LENGTH "L"	1/16" DIA. RIVET *DASH No.	3/32" DIA. RIVET *DASH No.	1/8" DIA. RIVET *DASH No.	5/32" DIA. RIVET *DASH No.	3/16" DIA. RIVET *DASH No.	1/4" DIA. RIVET *DASH No.
3.5"	-01	-1	-6	-11	-16	-21
5.5"	-02	-2	-7	-12	-17	-22

FLUSH BITS FOR SOLID RIVETS

LENGTH "L"	D = 1/2" PART No.	D = 5/8" PART No.	
3.5"	CA1020-1	CA1020-16	
5.5"	CA1020-2	CA1020-17	

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BUCKING BARS

<p>CA-10-1A</p> <p>2.7 LBS</p>	<p>CA-14-2B</p> <p>1 LBS</p>	<p>CA-15-2C</p> <p>6 LBS</p>
<p>CA-17-3B</p> <p>.6 LBS</p>	<p>CA-19-4B</p> <p>1.3 LBS</p>	<p>CA-22-5B</p> <p>2.7 LBS</p>
<p>CA-23-5C</p> <p>1.4 LBS</p>	<p>CA-24-6A</p> <p>1.4 LBS</p>	<p>CA-26-6C</p> <p>3.5 LBS</p>
<p>CA-29-8A</p> <p>2.1 LBS</p>	<p>CA-30-8B</p> <p>1.6 LBS</p>	<p>CA-32-9B</p> <p>1.2 LBS</p>
<p>CA-36-11B</p> <p>1.4 LBS</p>	<p>CA-38-11B</p> <p>2.7 LBS</p>	<p>CA-46-14B</p> <p>2.7 LBS</p>
<p>CA-47-14C</p> <p>2.7 LBS</p>	<p>CA-49-15B</p> <p>3 LBS</p>	<p>CA-55-17B</p> <p>7 LBS</p>
<p>CA-56-17C</p> <p>1.4 LBS</p>	<p>CA-70-22A</p> <p>1 LBS</p>	<p>CA-72-22C</p> <p>.9 LBS</p>
<p>CA-78-24C</p> <p>2 LBS</p>	<p>CA-80-25B</p> <p>1.7 LBS</p>	<p>CA-83</p> <p>1.9 LBS</p>

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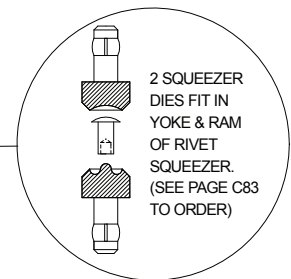
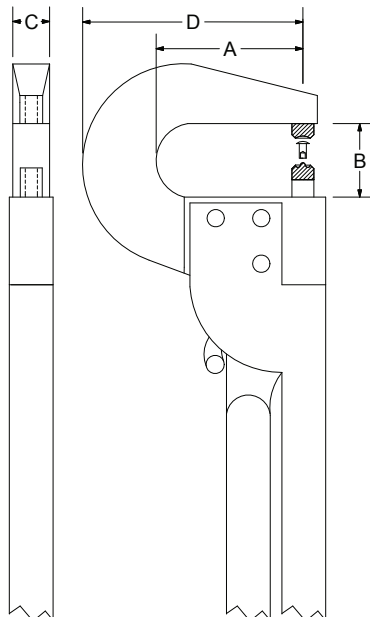
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HAND RIVET SQUEEZERS

RUGGED
STAINLESS STEEL
CONSTRUCTION!

MODEL	REACH "A"	GAP "B"	"C"	"D"	APPROXIMATE MAXIMUM RIVET LENGTH
HS-15	1.5"	1.25"	.625"	2.75"	1.00"
HS-20	2"	1.25"	.625"	3.25"	1.00"
HS-22	2"	2"	.625"	3.25"	1.75"
HS-30	3"	1.25"	.625"	4.25"	1.00"
HS-40	4"	1.25"	.625"	5.50"	1.00"
HS-50	5"	1.25"	.625"	6.75"	1.00"
HS-60	6"	1.25"	.625"	10.25"	1.00"
HS-100	2"	1"	.625"	2.62"	.750"
HS-101	1"	1"	.625"	2.25"	.750"
HS-102	1.5"	1.25"	.625"	2.50"	1.00"



TOOL CAPACITY

Solid aluminum rivets
up to 1/8" diameter

Solid mild steel rivets
up to 3/32" diameter

Tubular mild steel rivets
up to 3/16" diameter

Stroke: .355"

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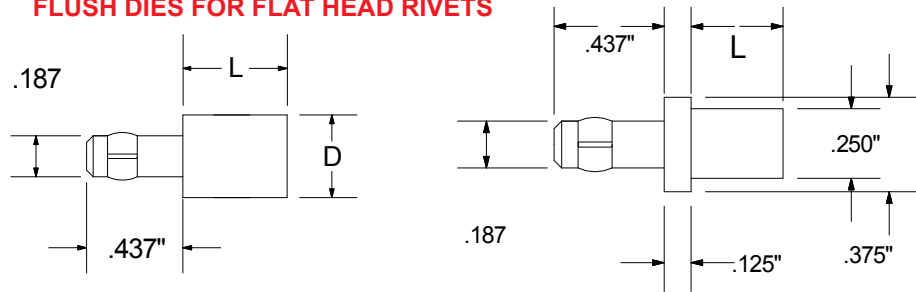
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SQUEEZER DIES

FLUSH DIES FOR FLAT HEAD RIVETS



BASIC

PART NUMBER:

CA2003-* FLUSH STYLE

"D" DIA.= 3/8"		"D" DIA.= 1/2"		"D" DIA.= 3/4"		"D" DIA.= 1"	
"L"	*DASH No.	"L"	*DASH No.	"L"	*DASH No.	"L"	*DASH No.
1/8	- 1	1/8	- 16	1/8	- 31	1/8	- 46
3/16	- 2	3/16	- 17	3/16	- 32	3/16	- 47
1/4	- 3	1/4	- 18	1/4	- 33	1/4	- 48
5/16	- 4	5/16	- 19	5/16	- 34	5/16	- 49
3/8	- 5	3/8	- 20	3/8	- 35	3/8	- 50
7/16	- 6	7/16	- 21	7/16	- 36	7/16	- 51
1/2	- 7	1/2	- 22	1/2	- 37	1/2	- 52
9/16	- 8	9/16	- 23	9/16	- 38	9/16	- 53
5/8	- 9	5/8	- 24	5/8	- 39	5/8	- 54
11/16	- 10	11/16	- 25	11/16	- 40	11/16	- 55
3/4	- 11	3/4	- 26	3/4	- 41	3/4	- 56
13/16	- 12	13/16	- 27	13/16	- 42	13/16	- 57
7/8	- 13	7/8	- 28	7/8	- 43	7/8	- 58
15/16	- 14	15/16	- 29	15/16	- 44	15/16	- 59
1	- 15	1	- 30	1	- 45	1	- 60

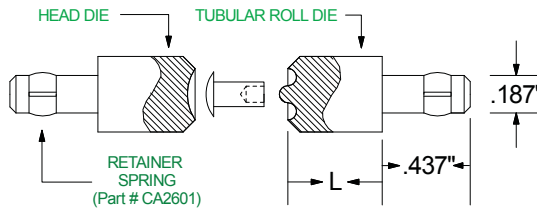
SHOULDER STYLE	
"L"	*DASH No.
1/8	- 61
3/16	- 62
1/4	- 63
5/16	- 64
3/8	- 65
7/16	- 66
1/2	- 67
9/16	- 68
5/8	- 69
11/16	- 70
3/4	- 71
13/16	- 72
7/8	- 73
15/16	- 74
1	- 75

CUPPED AND ROLLING DIES FOR SOLID AND TUBULAR RIVETS

BASIC
PART NUMBER:

DIE STYLE:

- CA2000-* ROUND HEAD
- CA2001-* BRAZIER HEAD
- CA2002-* UNIVERSAL HEAD
- CA2004-* OVAL / TRUSS HEAD
- CA2005-* TUBULAR ROLL



1/16" DIA. RIVET		3/32" DIA. RIVET		1/8" DIA. RIVET		9/64" & 5/32" DIA. RIVET		3/16" DIA. RIVET		1/4" DIA. RIVET		5/16" DIA. RIVET		3/8" DIA. RIVET	
"L"	*DASH No.	"L"	*DASH No.	"L"	*DASH No.	"L"	*DASH No.	"L"	*DASH No.	"L"	*DASH No.	"L"	*DASH No.	"L"	*DASH No.
1/8	- 01x	1/8	- 1x	1/8	- 8x	1/8	- 15x	1/8	- 22x	1/8	- 29x	1/8	- 36x	1/8	- 43x
1/4	- 01	1/4	- 1	1/4	- 8	1/4	- 15	1/4	- 22	1/4	- 29	1/4	- 36	1/4	- 43
3/8	- 02	3/8	- 2	3/8	- 9	3/8	- 16	3/8	- 23	3/8	- 30	3/8	- 37	3/8	- 44
1/2	- 03	1/2	- 3	1/2	- 10	1/2	- 17	1/2	- 24	1/2	- 31	1/2	- 38	1/2	- 45
5/8	- 04	5/8	- 4	5/8	- 11	5/8	- 18	5/8	- 25	5/8	- 32	5/8	- 39	5/8	- 46
3/4	- 05	3/4	- 5	3/4	- 12	3/4	- 19	3/4	- 26	3/4	- 33	3/4	- 40	3/4	- 47
7/8	- 06	7/8	- 6	7/8	- 13	7/8	- 20	7/8	- 27	7/8	- 34	7/8	- 41	7/8	- 48
1	- 07	1	- 7	1	- 14	1	- 21	1	- 28	1	- 35	1	- 42	1	- 49

The dies on this page fit our Hand and Air Rivet Squeezers, HT-100 Tool, and Riveters on pages D78, D82 and D84-D87.

D83

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PNEUMATIC RIVET SQUEEZERS

**STATIONARY
"C" STYLE
RIVET
SQUEEZERS**

**STATIONARY
"C" STYLE
RIVET
SQUEEZERS**



MODEL	STANDARD YOKES*		RIVET DIAMETER CAPACITIES			APPROXIMATE RIVET LENGTH CAPACITY
	REACH	GAP	SOLID ALUMINUM	SOLID STEEL	TUBULAR STEEL	
3000CS	3"	3.25"	5/32"	1/8"	3/16"	1.50"
	3"	4.25"				2.50"
	3"	5.25"				3.50"
	6"	3.50"				1.75"
6000CS	3"	3.25"	3/16"	5/32"	1/4"	1.50"
	3"	4.25"				2.50"
	3"	5.25"				3.50"
	6"	3.50"				1.75"

MODEL	STANDARD YOKES*		RIVET DIAMETER CAPACITIES			APPROXIMATE RIVET LENGTH CAPACITY
	REACH	GAP	SOLID ALUMINUM	SOLID STEEL	TUBULAR STEEL	
8000CS 15KCS	6"	5"	1/4"	3/16"	5/16"	4.25"
			3/8"	5/16"	3/8"	
8000CSA	9.5"	5"	1/4"	3/16"	5/16"	2.00"
	12.5"	5"				
	24"	5.75"				
15KCSA	9.5"	5"	3/8"	5/16"	3/8"	2.00"
	12.5"	5"				
	24"	5.75"				

RIVET SQUEEZERS

**PEDESTAL
FOR ALL
STATIONARY
TOOLS**

MODEL	STANDARD YOKES*		RIVET DIAMETER CAPACITIES			APPROXIMATE RIVET LENGTH CAPACITY
	REACH	CLOSED GAP	SOLID ALUMINUM	SOLID STEEL	TUBULAR STEEL	
3000AS	1.50"	.875"	5/32"	1/8"	3/16"	.625"
	2.25"	1.12"	1/8"	3/32"	5/32"	.870"
	3.00"	.937"	3/32"	1/16"	1/8"	.687"
6000AS	1.50"	.875"	7/32"	3/16"	1/4"	.625"
	2.25"	1.12"	3/16"	5/32"	3/16"	.870"
	3.00"	.937"	5/32"	9/64"	3/16"	.687"
	3.50"	1.00"	5/32"	1/8"	9/64"	.750"

This pedestal is ideal for Stationary Tools Model 8000CS and 15KCS. It comes complete with an Air-Filter-Lubricator-Regulator unit. Considering the heavy duty welded steel construction and its design to maximize the versatility of these tools, the pedestal adds great value to your investment. Model 15KCSA with a 24" reach pictured above.

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PNEUMATIC RIVET SQUEEZERS

HAND HELD "C" STYLE RIVET SQUEEZERS

HAND HELD ALLIGATOR STYLE RIVET SQUEEZERS

MODEL	STANDARD YOKES*		RIVET DIAMETER CAPACITIES			APPROXIMATE RIVET LENGTH CAPACITY	MODEL	STANDARD YOKES*		RIVET DIAMETER CAPACITIES			APPROXIMATE RIVET LENGTH CAPACITY
	REACH	GAP	SOLID ALUMINUM	SOLID STEEL	TUBULAR STEEL			REACH	CLOSED GAP	SOLID ALUMINUM	SOLID STEEL	TUBULAR STEEL	
3000C	1.5"	1.25"	1/8"	3/32"	3/16"	.250"	3000A	1.50"	.875"	5/32"	1/8"	3/16"	.625"
	2.0"	1.50"						2.25"	1.12"	1/8"	3/32"	5/32"	.870"
	2.5"	1.50"						3.00"	.937"	3/32"	1/16"	1/8"	.687"
	3.0"	1.50"											
6000C	4.0"	1.75"	3/16"	5/32"	1/4"	.750"	6000A	1.50"	.875"	7/32"	3/16"	1/4"	.625"
	4.5"	1.75"						2.25"	1.12"	3/16"	5/32"	3/16"	.870"
	5.0"	1.75"						3.00"	.937"	5/32"	9/64"	3/16"	.687"
	6.0"	1.75"						3.50"	1.00"	5/32"	1/8"	9/64"	.750"
9000C	1.5"	1.25"	1/4"	3/16"	5/16"	.250"	9000A	1.50"	.875"	1/4"	3/16"	5/16"	.625"
	3.0"	1.50"						2.25"		3/16"	5/32"	1/4"	
	3.5"	1.50"						3.00"		3/16"	5/32"	3/16"	

HEAVY DUTY HAND HELD "C" STYLE RIVET SQUEEZERS

HEAVY DUTY HAND HELD ALLIGATOR STYLE RIVET SQUEEZERS

MODEL	STANDARD YOKES*		RIVET DIAMETER CAPACITIES			APPROXIMATE RIVET LENGTH CAPACITY	MODEL	STANDARD YOKES*		RIVET DIAMETER CAPACITIES			APPROXIMATE RIVET LENGTH CAPACITY
	REACH	GAP	SOLID ALUMINUM	SOLID STEEL	TUBULAR STEEL			REACH	GAP	SOLID ALUMINUM	SOLID STEEL	TUBULAR STEEL	
CP-0351 FUDEL	2.1"	1.50"	1/4"	7/32"	3/8"	.250"	CP-0351 ESVEL	9.12"	2.12"	3/16"	5/32"	1/4"	3/4"



HAND HELD "C" STYLE THREADED HARDWARE INSTALLATION TOOL

HARDWARE INSTALLATION KITS FOR STATIONARY TOOLS

KIT
A

KIT
B

For installing Press-In Threaded Hardware: Nuts, Studs, Inserts, Stand Offs

MODEL	STANDARD YOKES*		RIVET DIAMETER CAPACITIES			APPROXIMATE RIVET LENGTH CAPACITY	KIT	THE TOOLS THESE KITS ARE DESIGNED TO WORK IN (See page C84)	HARDWARE SIZE RANGE
	REACH	GAP	SOLID ALUMINUM	SOLID STEEL	TUBULAR STEEL				
6000CHP KIT	3"	1.75"	3/16"	5/32"	1/4"	.750"	A	6000CS (Adapter Required) 8000CSA & 15KCSA	#2 thru #10 up to 1/2" Long
This tool is designed for the installation of Press-In Threaded Hardware such as Nuts, Studs, Inserts, Stand Offs, and Rivets. Tooling Kit "C" is included with this tool.							S	6000CS 8000CSA & 15KCSA	#2 thru 5/16 up to 1-1/4" Long
							C	6000C, 6000CS & 6000CHP 8000CSA & 15KCSA	#2 thru #10 up to 1/2" Long

See page C83 for Squeezer Dies to fit these tools. *NOTE: Other size Yokes available, call for details. **C85**

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FOOT & AIR RIVETERS

Bench Mount
Model

AIR POWERED ECONOMY RIVETERS & DE-RIVETERS

FOOT POWERED RIVETERS & DE-RIVETERS

MODEL	REACH	STROKE	SOLID STEEL RIVET CAPACITY	TUBULAR RIVET CAPACITY	MODEL	REACH	STROKE	SOLID STEEL RIVET CAPACITY	TUBULAR RIVET CAPACITY
AC86	8"	1-1/4"	3/16"	1/4"	IM105C	5"	3/4"	3/16"	1/4"
AC86-H (Bench Model)	8"	1-1/4"	3/16"	1/4"	IM110C	8-1/4"	1"	5/16"	5/8"

AIR POWERED RIVETERS & DE-RIVETERS

AIR POWERED RIVETER & DE-RIVETER

MODEL	REACH	STROKE	SOLID STEEL RIVET CAPACITY	TUBULAR RIVET CAPACITY	MODEL	REACH	STROKE	SOLID STEEL RIVET CAPACITY	TUBULAR RIVET CAPACITY
IM105C-1	5"	3/4"	3/16"	1/4"	IM200C-1	7"	1-1/4"	1/4"	3/8"
IM110C-1	8-1/4"	1"	5/16"	5/8"					

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FOOT & AIR RIVETERS

PART NUMBER	STANDARD TOOLS FOR FOOT & AIR RIVETERS	
15H 15E 15F	Knockout Die - 1/4" Diameter Head Knockout Die - 5/16" Diameter Head Knockout Die - 3/8" Diameter Head	
15K 15 15R 16 16S 16D 16-1 16AA 16AS 16F 16FS 16G	Knockout Punch - 1/8" Diameter Rivet Knockout Punch - 9/64" Diameter Rivet Knockout Punch - 5/32" Diameter Rivet (#11 Clutch Rivet) Knockout Punch - 3/16" Diameter Rivet Knockout Punch - 3/16" Diameter Rivet (Short Tool) Knockout Punch - .197" Diameter Rivet (#20 Brake Rivet) Knockout Punch - .210" Diameter Rivet (#23 Brake Rivet) Knockout Punch - 1/4" Diameter Rivet Knockout Punch - 1/4" Diameter Rivet (Short Tool) Knockout Punch - 5/16" Diameter Rivet Knockout Punch - 5/16" Diameter Rivet (Short Tool) Knockout Punch - 3/8" Diameter Rivet	
17K 17 17R 18D 18C 18A 18AL 18AS 18GH 18E 18Z 18ZL	Tubular Rivet Set - 1/8" Roll Clinch Tubular Rivet Set - 9/64" Roll Clinch Tubular Rivet Set - 5/32" Roll Clinch (#11 Clutch) Tubular Rivet Set - 3/16" Roll Clinch Tubular Rivet Set - .205" Roll Clinch (20 & 23 Brake) Tubular Rivet Set - 1/4" Roll Clinch Tubular Rivet Set - 1/4" Roll Clinch (Long Tool) Tubular Rivet Set - 1/4" Roll Clinch (Short Tool) Tubular Rivet Set - 5/16" Roll Clinch Tubular Rivet Set - 3/8" Roll Clinch Squeezer Die Adapter - Upper Squeezer Die Adapter - Upper (Long Tool)	
19 19A 19C 19B	Tubular Rivet Set - 9/64" Star Clinch Tubular Rivet Set - 3/16" Star Clinch Tubular Rivet Set - 1/4" Star Clinch Tubular Rivet Set - 1/4" Star Clinch (Short Tool)	
18B 18BS 18K 18L	Solid Rivet Set - Round Head Solid Rivet Set - Round Head (Short Tool) Solid Rivet Set - Recessed Cross Pattern Solid Rivet Set - Diamond Pattern	
22E 23G 22J 23J 23H 23M 23N 23P 23Z	Anvil - 5/16" Diameter Flat Head Anvil - 3/8" Diameter Flat Head (Long Tool) Anvil - 7/16" Diameter Flat Head Anvil - 1/2" Diameter Flat Head Anvil - 1/2" Diameter Flat Head (Long Tool) Anvil - 9/16" Diameter Flat Head Anvil - 5/8" Diameter Flat Head Anvil - 3/4" Diameter Flat Head Squeezer Die Adapter - Lower	THESE ANVILS ARE FOR THE FOLLOWING MACHINES: IM105C 1M105C-1 IM110C IM110C-1 IM200C-1 AC86 AC86H
21 21Z 22 23 23E 23B 23A 23C 23D 21SR 22SR 23BSR	Anvil - 1/4" Diameter Flat Head Squeezer Die Adapter - Lower Anvil - 5/16" Diameter Flat Head Anvil - 3/8" Diameter Flat Head Anvil - 3/8" Diameter Flat Head (Long Tool) Anvil - 7/16" Diameter Flat Head (Long Tool) Anvil - 1/2" Diameter Flat Head (Long Tool) Anvil - 9/16" Diameter Flat Head Anvil - 5/8" Diameter Flat Head Anvil - 7/32" Diameter Oval Head Anvil - 5/16" Diameter Oval Head Anvil - 7/16" Diameter Oval Head	THESE ANVILS ARE FOR THE FOLLOWING MACHINES: IM75C IM75C-1

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RIVET MACHINES - AUTO FEED

These are our most popular machines.
Perfect for economical,
trouble free-riveting

Heavy duty work horse riveters.
They are the most modern
riveters available-



MODEL	TUBULAR STEEL RIVET CAPACITY	LENGTH CAPACITY	THROAT DEPTH	MODEL	TUBULAR STEEL RIVET CAPACITY	LENGTH CAPACITY	THROAT DEPTH
500B Bench 500BA Air	5/32"	3/4"	10"	600	3/16"	STANDARD: 1-3/8"	12"
	5/32"	3/4"	10"	616	3/16"		16"
500 Floor 500A Air	5/32"	3/4"	10"	625	3/16"	SPECIAL: UP TO 2-1/2"	25"
	5/32"	3/4"	10"	800	1/4"		12"
				816	1/4"		16"
				1000	5/16"		12"
				1200	3/8"		12"
				3000	1/2"		12"
				3160	1/2"		12"

OUR RIVETERS ARE EQUIPPED WITH "QUICK CHANGE HOPPERS" FOR PRODUCTION VERSATILITY.

ASK ABOUT OUR RENTAL PROGRAMS!

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RIVET MACHINES - AUTO FEED

Designed to handle miniature rivets.



Multiple head installations on a common base is the main advantage of these models.

MODEL	TUBULAR STEEL RIVET CAPACITY	LENGTH CAPACITY	THROAT DEPTH	MODEL	TUBULAR STEEL RIVET CAPACITY	LENGTH CAPACITY	THROAT DEPTH
B BA Air	.028-.125" .028-.125"	3/8" 3/8"	6" 6"	1500 1500F Floor 1600 1600F Floor 1600-Offset 1600F-Offset	1/8" 1/8" 3/16" 3/16" 3/16" 3/16"	5/8" 5/8" 3/4" 3/4" 3/4" 3/4"	10" 10" 12" 12" 14" 14"

Dual riveters feed and set 2 rivets at once! Rivets can be set as close as 1/4" on center.

These machines will set rivets very close to vertical angles. Left & right clearances available.

MODEL	TUBULAR STEEL RIVET CAPACITY	LENGTH CAPACITY	THROAT DEPTH	MODEL	TUBULAR STEEL RIVET CAPACITY	LENGTH CAPACITY	THROAT DEPTH
2400B 2400F 2400BA 2400FA 2600B 2600F 2600BA 2600FA 2614 2850	1/8" 1/8" 1/8" 1/8" 3/16" 3/16" 3/16" 3/16" 3/16" 1/4"	5/8" 5/8" 3/4" 3/4" 5/8" 5/8" 3/4" 3/4" 3/4" 1"	8" 8" 8" 8" 8" 8" 8" 8" 14" 10"	2410BA L.H. 2420BA R.H. 2410FA L.H. 2420FA R.H. 2610BA L.H. 2620BA R.H. 2610FA L.H. 2620FA R.H.	1/8" 1/8" 1/8" 1/8" 3/16" 3/16" 3/16" 3/16"	3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4" 3/4"	8" 8" 8" 8" 8" 8" 8" 8"

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ASK ABOUT OUR RENTAL PROGRAMS!

HANSON RIVET & SUPPLY CO.

13241 Weidner Street
Pacoima, CA 91331

Phone: 818-485-0500

FAX: 818-485-0540

Outside CA: 1-800-RRRIVET

www.hansonrivet.com



ORBITAL RIVETERS

**BENCH
MACHINES**

**PEDESTAL
MACHINES**

MODEL	SOLID MILD STEEL RIVET CAPACITY	STANDARD STROKE	THROAT DEPTH	MODEL	SOLID MILD STEEL RIVET CAPACITY	STANDARD STROKE	THROAT DEPTH
T-161	.160"	1.25"	4.10"	T-321 F	.320"	1.50"	7.00"
T-251	.250"	1.25"	4.10"	T-401 F	.400"	1.50"	7.00"
T-321	.320"	1.50"	6.60"	T-501 F	.550"	1.50"	7.00"
T-401	.400"	1.50"	6.60"	T-626 F	.630"	1.75"	7.00"
T-501	.550"	1.50"	6.60"	T-751 FH	.750"	1.75"	9.00"
T-626	.625"	1.75"	7.00"	T-1000 FH	1.00"	1.75"	9.00"
T-700H	.700"	1.75"	7.10"				

ORBITAL RIVETING AND HEADFORMING is a consistently high quality method of forming metals and plastics. This simple method combines both pressure and spinning motions to noiselessly form an accurately controlled rivet head. The joint can be either tight or loose to pivot! We are happy to run samples to show you the quality of orbital riveting. Call us for more detailed information and a demonstration!

C90

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ORBITAL RIVETERS

MULTI-POINT HEADS

Do the whole job in one stroke of the machine!

Multiple rivets or parts can be formed at one time, even different heights or in recessed cavities. Tools and heads can be easily changed for maximum flexibility.

MODULAR POWER HEADS

Modular Power Heads are perfect for mounting on rotary tables and special assembly machines.

ORBITAL HEADS

MODEL	SOLID MILD STEEL RIVET CAPACITY	STANDARD STROKE	WEIGHT LBS.
T-161 M	.160"	1.25"	25
T-251 M	.250"	1.25"	42
T-321 M	.320"	1.50"	89
T-401 M	.400"	1.50"	90
T-501 M	.550"	1.50"	110
T-626 M	.630"	1.75"	195
T-751 M	.750"	1.75"	255
T-1000 M	1.00"	1.75"	290

TOOL CONFIGURATIONS

NOTE: 3, 4, and 5 degree heads available.

ORBITAL RIVETING AND HEADFORMING is a consistently high quality method of forming metals and plastics. This simple method combines both pressure and spinning motions to noiselessly form an accurately controlled rivet head. The joint can be either tight or loose to pivot! We are happy to run samples to show you the quality of orbital riveting. Call us for more detailed information and a demonstration! **C91**



ANVIL WORK SHEET

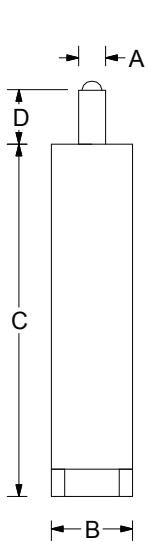
FOR AUTOMATIC FEED RIVET MACHINES

This work sheet is designed to help you order the anvils you need.

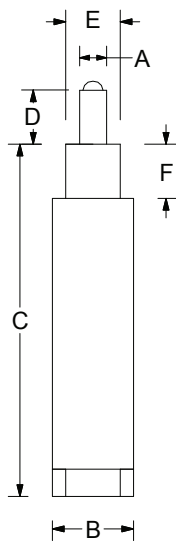
Using the drawings at the bottom of this page:

- 1: Select the anvil **Type**, 1 through 5.
- 2: Fill in the dimensions "A" through "F"
- 3: Indicate the **Current Anvil Part Number** (if any) of the anvil you are trying to duplicate.
- 4: Indicate the **Rivet Part Number and/or Dimensions** and circle the **Rivet Type**.
- 5: Circle the **Clinch Type** you would like the anvil to produce on your rivet.
- 6: FAX or mail us a copy of this sheet and we will respond with a quote.

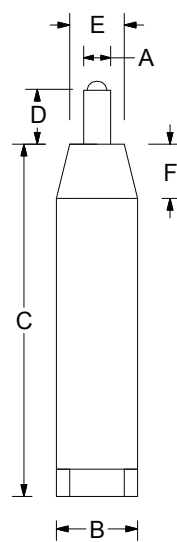
TYPE	PIN DIAMETER "A"	BARREL DIAMETER "B"	BARREL LENGTH "C"	PIN STICK OUT "D"	NECK DIAMETER "E"	NECK LENGTH "F"	CURRENT ANVIL PART NUMBER	RIVET PART NUMBER AND/OR DIMENSIONS	CIRCLE RIVET TYPE:	CIRCLE CLINCH TYPE:
									Tubular Solid Split	Roll Star Solid
									Tubular Solid Split	Roll Star Solid
									Tubular Solid Split	Roll Star Solid
									Tubular Solid Split	Roll Star Solid
									Tubular Solid Split	Roll Star Solid
									Tubular Solid Split	Roll Star Solid
									Tubular Solid Split	Roll Star Solid



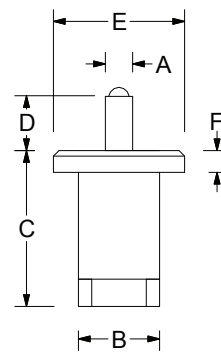
**PLAIN
TYPE 1**



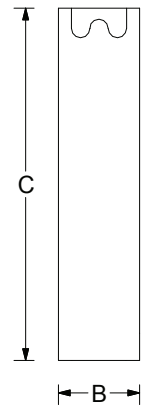
**NECK
TYPE 2**



**TAPER
TYPE 3**



**SHOULDER
TYPE 4**



**SELF-PIERCING
TYPE 5**

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CHARTS

SHEET METAL GAUGES

U.S.S. Manufacturers Standard

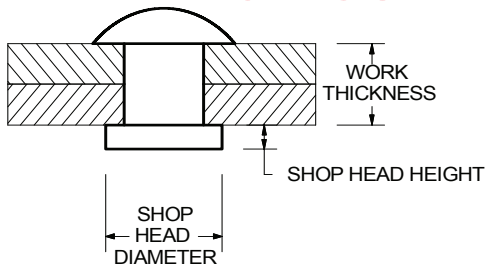
CONVERSIONS

FRACTION / DECIMAL / MILLIMETER

NO. OF SHEET METAL GAUGE	DECIMAL (APPROX.)	NO. OF SHEET METAL GAUGE	DECIMAL (APPROX.)
3	.2391	17	.0538
4	.2242	18	.0478
5	.2092	19	.0418
6	.1943	20	.0359
7	.1793	21	.0329
8	.1644	22	.0299
9	.1495	23	.0269
10	.1345	24	.0239
11	.1196	25	.0209
12	.1046	26	.0179
13	.0897	27	.0164
14	.0747	28	.0149
15	.0673	29	.0135
16	.0598	30	.0120

FRACTION	DEC MM	FRACTION	DEC MM
1/64	.0156 0.396	33/64	.5156 13.297
1/32	.0312 0.793	17/32	.5312 13.494
3/64	.0468 1.19	35/64	.5468 13.891
1/16	.0625 1.587	9/16	.5625 14.288
5/64	.0781 1.984	37/64	.5781 14.684
3/32	.0937 2.381	19/32	.5937 15.081
7/64	.1093 2.778	39/64	.6093 15.478
1/8	.1250 3.175	5/8	.6250 15.875
9/64	.1406 3.571	41/64	.6406 16.272
5/32	.1562 3.968	21/32	.6562 16.669
11/64	.1718 4.366	43/64	.6718 17.066
3/16	.1875 4.763	11/16	.6875 17.463
13/64	.2031 5.159	45/64	.7031 17.859
7/32	.2187 5.556	23/32	.7187 18.256
15/64	.2343 5.953	47/64	.7343 18.653
1/4	.2500 6.350	3/4	.7500 19.050
17/64	.2656 6.747	49/64	.7656 19.447
9/32	.2812 7.144	25/32	.7812 19.844
19/64	.2968 7.541	51/64	.7968 20.241
5/16	.3125 7.938	13/16	.8125 20.638
21/64	.3281 8.334	53/64	.8281 21.034
11/32	.3437 8.731	27/32	.8437 21.431
23/64	.3593 9.128	55/64	.8593 21.828
3/8	.3750 9.525	7/8	.8750 22.225
25/64	.3906 9.922	57/64	.8906 22.622
13/32	.4062 10.319	29/32	.9062 23.019
27/64	.4218 10.716	59/64	.9218 23.416
7/16	.4375 11.113	15/16	.9375 23.813
29/64	.4531 11.509	61/64	.9531 24.209
15/32	.4687 11.906	31/32	.9687 24.606
31/64	.4843 12.303	63/64	.9843 25.003
1/2	.5000 12.700	1	1.0000 25.400

SOLID RIVET INSTALLATION GUIDE



RIVET BODY DIAMETER	SHOP HEAD DIAMETER MIN./MAX.	SHOP HEAD HEIGHT MIN./MAX.
1/16	.080/.110	.020/.040
3/32	.120/.160	.030/.060
1/8	.160/.210	.040/.080
5/32	.200/.270	.050/.100
3/16	.240/.320	.060/.120
1/4	.330/.430	.080/.170
5/16	.410/.530	.110/.210
3/8	.490/.640	.120/.250

This chart is a guide to help determine how much a solid rivet should be squeezed. This is general information and may vary greatly depending upon the application. The "Shop Head" size should generally fall within this table.