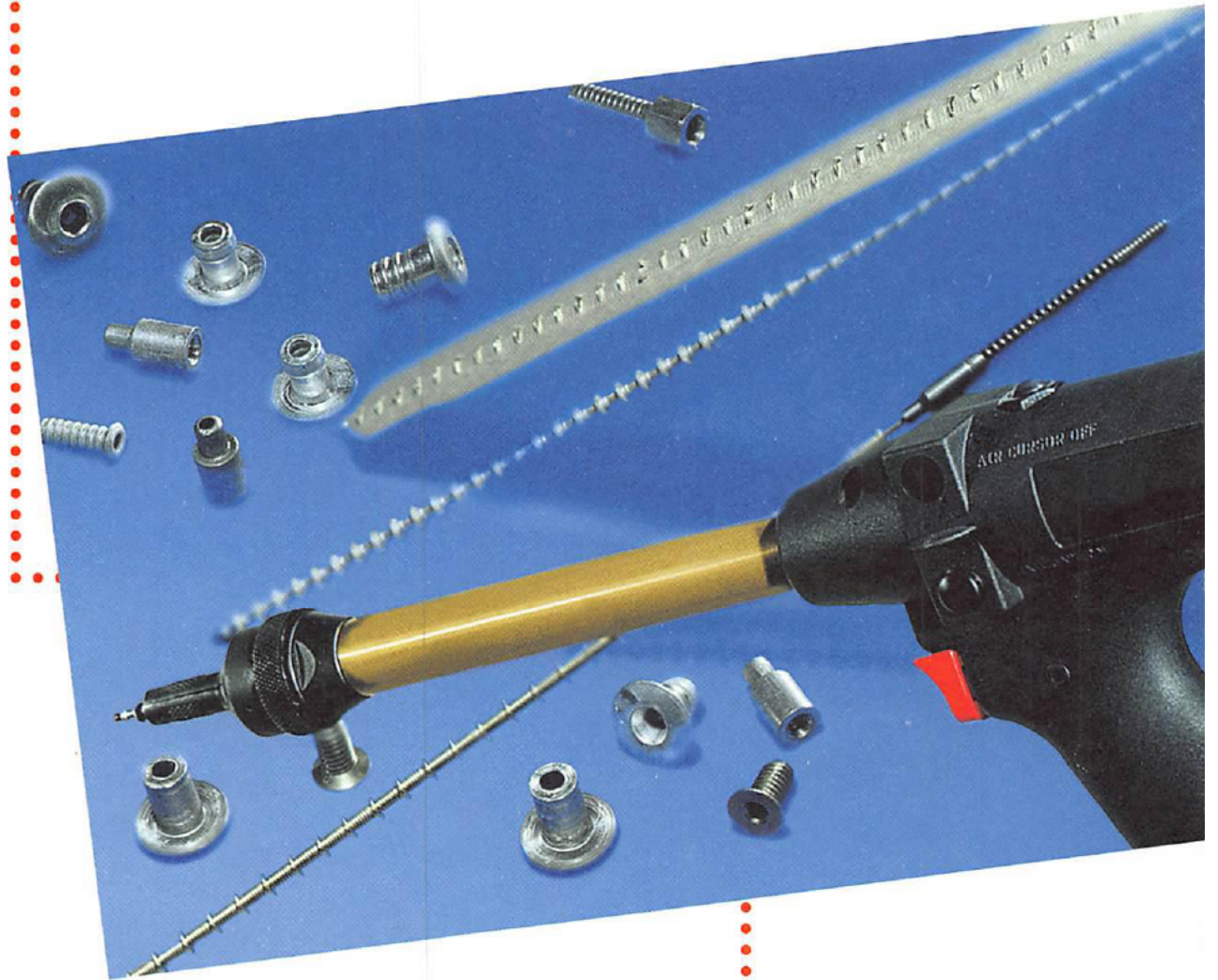


Avdel Cherry **TEXTRON**



Speed Fastening

Engineered Fasteners and Assembly Systems



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Warranty Information

Avdel Cherry Textron (hereinafter "Avdel Cherry"), hereby warrants to the initial retail customer and original installer ("Warrantee") only that its products will be free from defects in material and workmanship, provided that the products are used in accordance with Avdel Cherry's instructions as to maintenance, operation and use.

The warrantee's only remedy and Avdel Cherry's only obligation in the event of a defect or failure in the products, is that Avdel Cherry will, at its sole option, repair, replace, or rework the products, but in no case shall the cost of the foregoing exceed the invoice price of the products.

This warranty shall be void if any person seeking to make a claim for defective or failed products fails to notify Avdel Cherry within thirty (30) days of receipt of evidence that the product is defective or has failed, or if said person fails to provide Avdel Cherry with such evidence as is reasonably requested concerning the defect or failure, including without limitation, evidence of the date of purchase and date of installation.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING MERCHANTABILITY OR FITNESS PROVIDED FOR HEREIN. UNDER NO CIRCUMSTANCES SHALL AVDEL CHERRY BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES ARISING FROM ANY DEFECT OR FAILURE IN ITS PRODUCTS.

NOTE: The properties, strengths, dimensions, installed characteristics and all other information in this catalog is for guidance only to aid in the correct selection of the products described herein and is not intended or implied as part of the above warranty. All applications should be evaluated for functional stability and available samples of the described parts can be requested for installed tests, suitability and evaluations

All inquiries concerning this Warranty should be sent to:

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About Avdel Cherry Textron

Avdel Cherry Textron is a 60-year leader in the design and manufacture of quality engineered assembly systems, including structural and non-structural blind rivets, threaded inserts, lockbolts, speed fastening, self-piercing rivets, and installation tools. Avdel Cherry supplies its world class products to the major automakers and their subcontractors, the transportation industry, major electronics manufacturers and their subcontractors, as well as a variety of other industries worldwide.

Avdel Cherry Textron was formed January 1, 1996, following the merger of Cherry Textron's Commercial Fastener Division with the U.S. operating company of UK-based Avdel Textron. Now part of Textron Fastening Systems — the global leader in fastening solutions — Avdel Cherry strengthens the group's international presence that already includes Camcar and Elco in the U.S., together with European-based Avdel Textron, Textron Industries, and Boesner and BSK.

Textron Inc., with annual revenues exceeding \$9 billion (NYSE:TXT), is a global, multi-industry company with market-leading operations in five business segments: Aircraft, Automotive, Industrial, Systems and Components, and Finance. Current and more detailed information regarding Textron Inc. is available by contacting the company's Providence, RI headquarters, or via the Internet: <http://www.textron.com>.

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Why Speed Fastening?

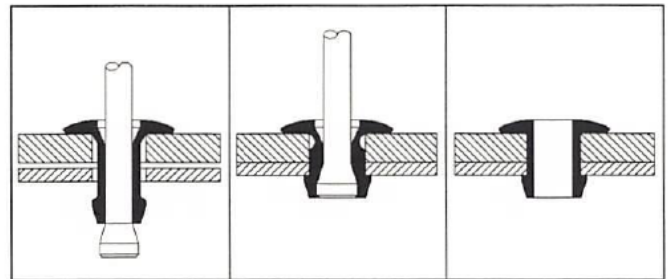
- Low installed cost - magazine-fed system
- Reduced labor
- Versatility
- Reliability

The use of Speed Fastening in most applications has proven to be superior to other methods of fastening. Welding, sheet metal screws, nuts and bolts and pressed-in fasteners all require extensive labor. Speed fasteners are superior because of their:

1. **Low Installed Cost** Up to thirty fasteners per minute (sixty with automated tools) can be set without any specialized labor.
2. **Reduced Labor** The speed of placement can free operators to conduct tasks other than mechanical fastening.
3. **Versatility** Speed fasteners are available in many types, sizes, and materials to meet the requirements of the most demanding applications - from automotive to electronic. Additionally, the Speed Fastening system permits "fine tuning," as the mandrel configuration can be altered to meet differing hole tolerances.
4. **Reliability** Speed fasteners can permanently join applications and can withstand severe vibration and environmental conditions.

Installation

The installation of speed fasteners is easily accomplished using a range of tooling options, from simple handheld tools to continuously-fed placing heads, which are capable of functioning with robotic end effectors.



1. The fastener on a pre-loaded mandrel is inserted into the joint hole.
2. As the mandrel is pulled through the fastener body, radial expansion and clamp-up occur.
3. The mandrel pulls through the fastener. Installation is complete and the next fastener is indexed into position automatically.

Selecting the Proper Speed Fastener

1. Select a speed fastener that meets the shear and tensile requirements for the application.
2. Select a fastener material that is compatible with the materials being joined, and the environment to which the application will be subjected.
3. Determine the application hole size.
4. Measure the thickness of the material to be joined (grip).
5. Select the proper nose piece, mandrel and follower spring.

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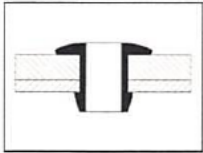
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Process Information

PAGE 6

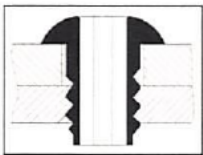
Fastening Systems



Briv®

A shouldered end gives Briv® extremely high clench capability and provides joint strength. Used extensively in sheet metal fabrication.

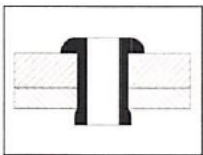
PAGE 8



Rivscrew®

Combines the speed placement of a rivet with the removability of a screw. Used extensively in electronics power supply and casting fastening.

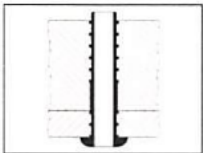
PAGE 12



Chobert®

The original speed fastening system used in a wide variety of materials.

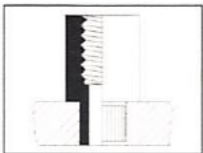
PAGE 16



Avtronic™

Designed to provide a superior attachment of through-hole or surface-mount connectors to printed circuit boards without the risk of cracking brittle connector material.

PAGE 20



Avsert®

Versatile, internally-threaded standoff for the replacement of screw lock assemblies or pressed-in standoffs.

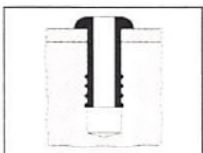
PAGE 24



Rivscrew® SP

Combines the features of the Avsert® with the added benefit of Rivscrew®-like removability.

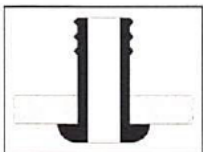
PAGE 26



Grovit®

Used with thicker gauge plastics, fiberglass, aluminum alloy and similar materials.

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Avlug®

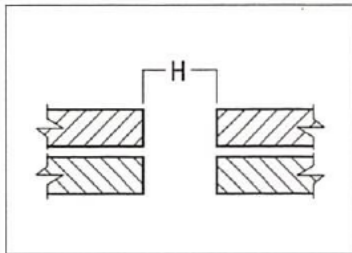
Secure, easy-to-solder terminal post for PCB applications.

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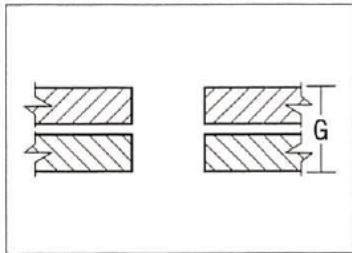
Placement Tools

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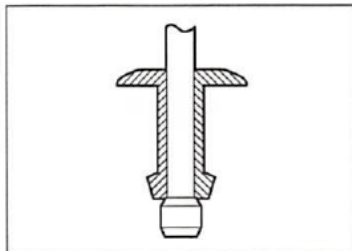
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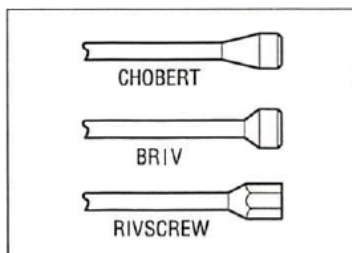
1. Measure hole size
→ **.128"**



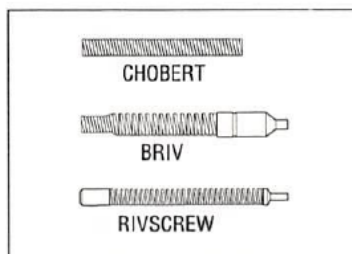
2. Measure application total material thickness (grip range)
→ **.251"**



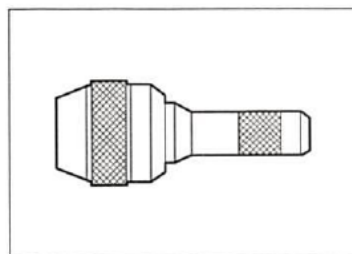
3. Choose the proper fastener
 - type - steel Briv®
 - diameter - 1/8"
 - grip - .251
 → **1821-0412**



4. Determine the proper mandrel for
 - fastener type - Briv®
 - hole size - (.128 standard mandrel)
 → **.092 diameter 6014**



5. Determine the proper follower spring for
 - fastener type - Briv®
 - fastener diameter - (1/8") #7150-6814
 → **7150-6814**



6. Determine the proper nosepiece
 - type - Briv®
 - diameter - 1/8"
 - style - Standard Flat Cam Operated #7170-4600
 → **7170-4600**

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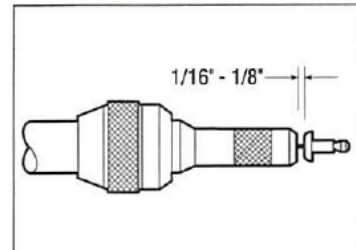
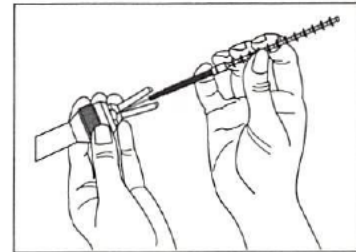
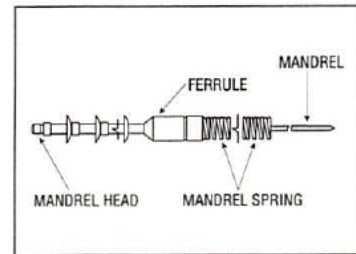
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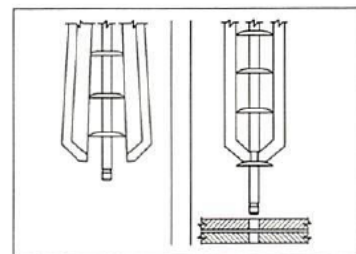
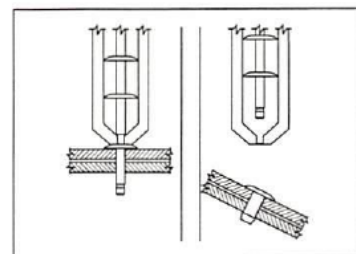
Process Information

Speed Fastening

7. Load the fasteners on the mandrel, followed by the spring.
8. Load tool.
9. Adjust the first fastener so it protrudes $1/16"$ to $1/8"$ from the closed nose piece, and close placement tool tail jaws.
10. Place fastener fully into the application holes and activate the placement tool trigger.
11. Release the trigger - the next fastener will be automatically presented through the nosepiece.



7



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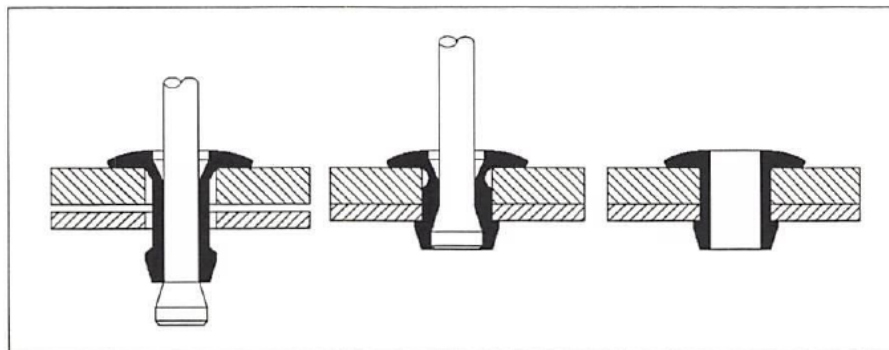
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A shouldered end gives Briv[®] extremely high clench capability and provides joint strength. Used extensively in sheet metal fabrication.



Benefits:

- **Low Cost**
Substantial savings in installed costs can be realized when Briv[®] fasteners are substituted for spot welds, loose hardware, or traditional nail rivets.
- **Fast Installation**
Magazine-fed fasteners can be placed as fast as an operator can move from hole to hole, and can be installed by semiautomatic or fully automated systems.
- **Versatile**
A wide range of mandrel sizes enables Briv[®] expansion to accommodate hole size variations.



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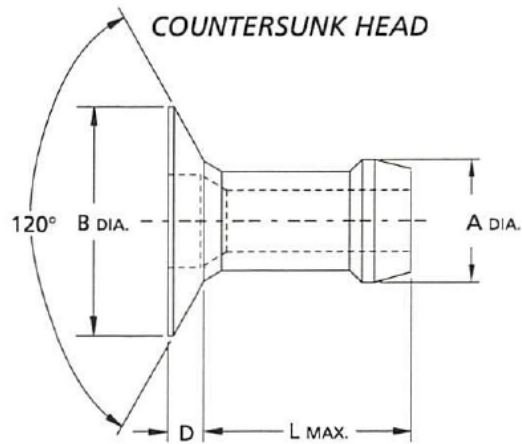
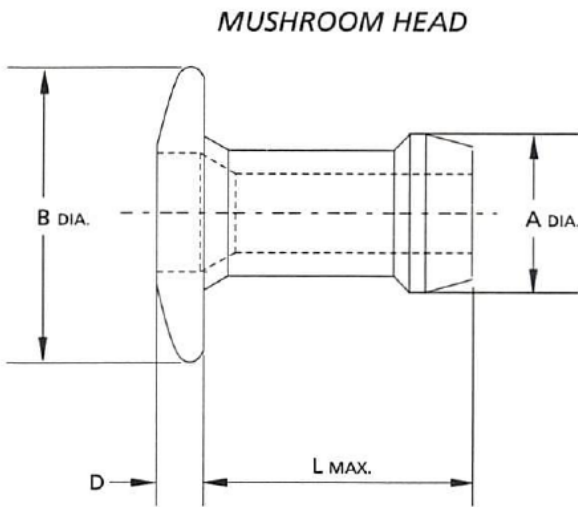
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Nom. Rivet Diam.	Hole Size	Std. Mand. Diam.*	A Rivet Diam.	B Head Diam.	D Max. Head Thick.	Series 1801, 1821, 1831/3, 1841 Mushroom Head		Series 1822 Countersunk Head	
						B Head Diam.	D Max. Head Thick.		
3/32	.0930 - .0960	.073	.0875-.0923	.148-.162	.030-.035				
1/8	.1285 - .1315	.092	.1199-.1245	.233-.257	.032-.039	.200-.235		.035	
5/32	.1562 - .1592	.110	.1495-.1535	.298-.322	.032-.039				
3/16	.1910 - .1940	.140	.1839-.1885	.358-.382	.039-.046				

*Multiple mandrel diameters available - see Briv® mandrel selection

Rivet Diam.	Series 1801 Aluminum		Series 1821 Steel		Series 1831 Brass		Series 1841** Stainless Steel		Series 1822 Steel	
	Shear	Tens.	Shear	Tens.	Shear	Tens.	Shear	Tens.	Shear	Tens.
3/32					140	200				
1/8	170	295	255	410	250	430			213	370
5/32	255	390	370	630	420	620	550	800		
3/16	340	615	505	835	520	810	800	1150		

**1841 requires special mandrel. See Briv® mandrel selection.

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G
Grip is total of material thicknesses

Series	Material	Finish
1801	Aluminum	Plain
1821	Steel	Zinc Plated
1831	Brass	Bright
1841	Stainless Steel	Plain
1822	Steel	Zinc Plated

Rivet Diam.	G Rivet Grip Range	L Length Max.	Series 1801 Alum.	Series 1821 Steel	Series 1831 Brass	Series 1841 St. Steel	Series 1822 Steel
3/32"	.045 - .095	.157			1831-0304		
	.085 - .135	.197			1831-0306		
	.125 - .175	.237			1831-0308		
	.165 - .215	.277			1831-0310		
	.205 - .255	.317			1831-0312		
	.245 - .295	.357			1831-0314		
1/8	.045 - .095	.172	1801-0404	1821-0404	1831-0404		
	.085 - .135	.212	1801-0406	1821-0406	1831-0406		
	.125 - .175	.252	1801-0408	1821-0408	1831-0408		
	.165 - .215	.292	1801-0410	1821-0410	1831-0410		
	.205 - .255	.332	1801-0412	1821-0412	1831-0412		
5/32	.062 - .115	.193	1801-0505	1821-0505	1831-0505	1841-0505	
	.105 - .155	.233	1801-0507	1821-0507	1831-0507	1841-0507	
	.145 - .195	.273	1801-0509	1821-0509	1831-0509	1841-0509	
	.185 - .235	.313	1801-0511	1821-0511	1831-0511	1841-0511	
	.225 - .275	.353	1801-0513	1821-0513	1831-0513	1841-0513	
3/16	.080 - .155	.240	1801-0607	1821-0607	1831-0607	1841-0607	
	.145 - .205	.290	1801-0609	1821-0609	1831-0609	1841-0609	
	.195 - .255	.340	1801-0611	1821-0611	1831-0611	1841-0611	
	.245 - .305	.390	1801-0613	1821-0613	1831-0613	1841-0613	
	.295 - .355	.440	1801-0615	1821-0615	1831-0615	1841-0615	
CSK HD. 1/8	.060 - .110	.188					1822-0406
	.100 - .150	.228					1822-0407
	.140 - .190	.268					1822-0408
	.180 - .230	.308					1822-0410
	.220 - .270	.348					1822-0411

Notes:

1. To install Avdel Cherry fasteners, use of Avdel Cherry specified installation tooling is recommended.
2. Avdel Cherry fasteners are ready for use as supplied and should not be reprocessed or degreased prior to installation, as this may affect performance.
3. Unpodded rivets for use with Rivmatic are coded 1822-9XXX (5th digit=9). They are identical to the 1822-0XXX rivets, but screened for use in automated equipment.
4. Items listed on these pages represent currently manufactured parts. Please contact your Avdel Cherry representative regarding lengths or dimensions not listed.

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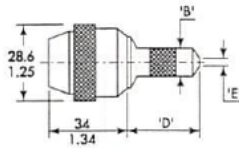
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Nose Equipment* BRIV® (Aluminum Alloy, Brass, Steel)				Nom. Dia.	Jaw Type	Part No.	Inch Dimensions					
							B	D	E			
3/32	Std Flat Tapered	7170-3103	.41	1.11	.200	5/32	Std Flat	7150-3005	.48	1.30	.24	
							Std Flat Cam Operated	7170-4700	.48	1.30	.24	
							Recessed High Clench	7170-3005	.48	1.32	.41	
Std Ltd Access Cam Operated	7177-3003	.20	1.18	.180	Long Flat		7150-4005	.48	2.30	.24		
Std Ltd Access Reduced Diam.	7274-1000	.22	1.07	.156	Recessed Long High Clench		7170-3205	.48	2.30	.41		
1/8	Std. Flat	7150-3004	.41	1.18	.200		Long Flat Cam Operated	7170-5100	.48	2.30	.24	
							3/16	Std Flat	7150-3006	.56	1.18	.33
								Std Flat Cam Operated	7170-4800	.56	1.18	.33
								Recessed High Clench	7170-3006	.56	1.20	.47
								Std Universal	7150-3206	.56	1.24	.47
								Long Flat	7150-4006	.56	2.30	.33
								Recessed Long High Clench	7170-3206	.56	2.30	.47
						Long Flat Cam Operated		7170-5200	.56	2.30	.33	
						Long Curved Flat		7150-5005	.48	2.23	.24	
						Recessed Lg Crvd High Clench		7170-3305	.48	2.23	.41	
Long Universal	7150-4206	.56	2.39	.48								
Universal Long Straight	7170-4204	.41	2.22	.300	Long Curved Flat	7150-5006	.56	2.21	.33			
Recessed High Clench Lng Crvd	7170-3304	.41	2.12	.300	Recessed Lg Crvd High Clench	7170-3306	.56	2.21	.47			

*See Nose Equipment Specifications page

Mandrel Specifications BRIV®							
Rivet Diam.	Hole Size	Mandrel Head	Description	Spring P/N	Long or Curved Spring P/N	Regular Mandrel P/N	Long or Curved Mandrel P/N
3/32	.093	.073	Standard	7170-6873	7170-7873	7150-6013	7150-7013
	.096	.076	#1 O.S.	7170-6873	7170-7873	7150-6113	7150-7113
	.099	.079	#2 O.S.	7170-6873	7170-7873	7150-6213	7150-7213
1/8	.128	.092	Standard	7150-6814	7150-7814	7150-6014	7150-7114
	.133	.097	#1 O.S.	7150-6814	7150-7814	7150-6114	7150-7114
	.138	.102	#2 O.S.	7150-6814	7150-7814	7150-6214	7150-7214
5/32	.156	.110	Standard	7170-6875	7170-7875	7150-6015	7150-7015
	.161	.115	#1 O.S.	7170-6875	7170-7875	7150-6115	7150-7115
	.166	.120	#2 O.S.	7170-6875	7170-7875	7150-6215	7150-7215
3/16	.191	.140	Standard	7170-6876	7170-7876	7150-6016	7150-7016
	.196	.145	#1 O.S.	7170-6876	7170-7876	7150-6116	7150-7116
	.201	.150	#2 O.S.	7170-6876	7170-7876	7150-6216	7150-7216
	.204	.153	#3 O.S.	7170-6876	7170-7876	7150-6316	7150-7216
5/32	.156/.159	.120	Standard	7170-6875	7170-7875	7170-6805	7170-7805
	.161/.164	.125	#1 O.S.	7170-6875	7170-7875	7170-6825	7170-7825
3/16	.191/.194	.153	Standard	7170-6876	7170-7876	7170-6806	7170-7806
	.196/.199	.158	#1 O.S.	7170-6876	7170-7876	7170-6826	7170-7826

*Briv® Stainless mandrels have a slot cut across the expanded tip. Do not use any mandrel with Briv® Stainless that does not have the slot.

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Briv is a registered trademark

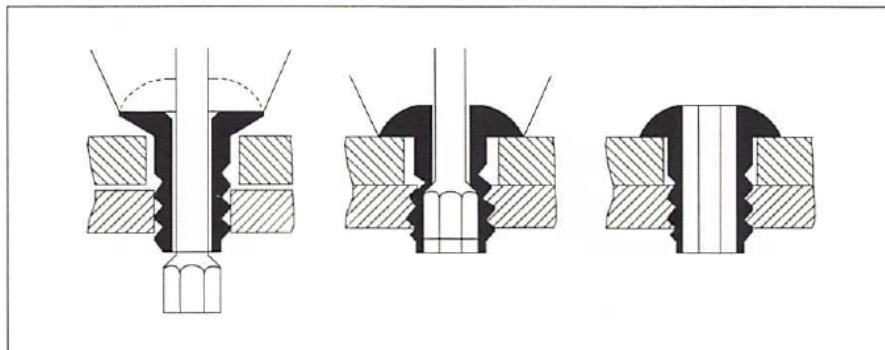


*Combines the speed placement of a rivet with the removability of a screw.
Used extensively in electronics power supply and casting fastening.*



Benefits:

- **Removable**
Combines the speed of rivet placement with the removability of a screw. Easily removed with a standard hex key, Rivscrew® is often used in place of tapping screws and nut, screw, and washer assemblies.
- **Self-Locking Thread**
Tool activation controls fastener expansion, at the same time forming a locked thread in the host material.
- **Vibration Resistant**
Thread locking feature creates vibration resistant joint.
- **Multiple Diameters and Lengths**
Available in multiple diameters, 3.0, 3.5, 4.0, and 4.8 millimeter, to facilitate use in standard hole sizes. Available in standard lengths from .157 to .553. Special longer lengths are also available.



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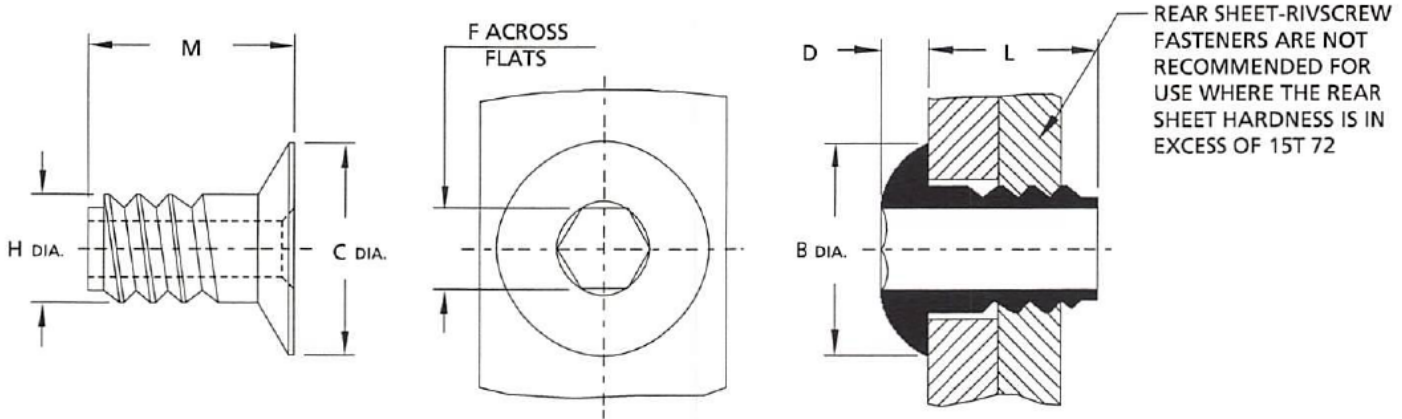
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Nom. Diam.	Hole Size				Nom. Mand. Diam.	H. Diam.	Head Diam. Max. H* Head Diam.				D Max. Thick. E* Max. Head Thick.		F A/F Key Size	
	Front Sheet		Rear Sheet				C Before Placement		B After Placement		Inch	mm		
	Inch	mm	Inch	mm			Inch	mm	Inch	mm				
3,0mm	.121-.124	3,07-3,15	.111-.114	2,82-2,89	.065 A/F	.107-.110	2.73-2.80	.215-.230	5,46-5,85	.240	6,10	.055	1,40	1/16 (,0615-.0625)
3,5mm	.138-.141	3,50-3,58	.122-.125	3,10-3,17	.082 A/F	.117-.121	2.98-3.08	.220-.235	5,58-5,97	.240	6,10	.055	1,40	5/64 (,0771-.0781)
4,0mm	.165-.168	4,19-4,27	.142-.145	3,61-3,68	.097 A/F	.137-.141	3.49-3.59	.230-.245	5,84-6,23	.250	6,35	.055	1,40	2,55mm (2,47-2,50)
4,8mm	.193-.197	4,90-5,00	.177-.180	4,50-4,57	.097 A/F			.394	10,00	.394	10,00	.070	1,78	2,55mm (2,47-2,50)

Typical Clamp Load and Placed Fastener Torque To Turn Rivscrew®		
Diam.	Series 1700 Zinc Plated & Yellow Dichromate	
	Clamp Load	Torque to Turn
3,0mm	30 lbf.	2.0 lbf. in.
3,5mm	77 lbf.	3.3 lbf. in.
4,0mm		
4,8mm		

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G
Grip is total of material thicknesses

Series	Material	Finish
1711	Low Carbon Steel SAE 1015/970.080 A15	Electroless Nickel
1712		Zinc Plated and Gold Passivated
1713		Hot Tin Dipped
1714		Zinc Plated and Black Passivated

Rivet Diam.	G RIVSCREW® Grip Range		Length Max.				Series 1712 Zinc Plated & Yellow Dichromate
			M Before Placing		L After Placing		
	Inch	mm	Inch	mm	Inch	mm	
3,0mm	.112	2,85	.202	5,14	.157	3,99	1712-3006
	.151	3,85	.241	6,13	.196	4,98	1712-3007
	.190	4,83	.280	7,12	.235	5,97	1712-3009
	.229	5,82	.319	8,11	.274	6,96	1712-3010
	.268	6,81	.359	9,12	.314	7,98	1712-3011
	.307	7,80	.397	10,10	.352	8,94	1712-3012
3,5mm	.112	2,85	.202	5,14	.157	3,99	1712-3506
	.151	3,85	.241	6,13	.196	4,98	1712-3507
	.190	4,83	.280	7,12	.235	5,97	1712-3509
	.229	5,82	.319	8,11	.274	6,96	1712-3510
	.268	6,81	.359	9,12	.314	7,98	1712-3511
	.307	7,80	.397	10,10	.352	8,94	1712-3512
4,0mm	.463	11,76	.553	14,05	.508	12,90	1712-3517
	.112	2,85	.202	5,14	.157	3,99	1712-4006
	.151	3,85	.241	6,13	.196	4,98	1712-4007
	.190	4,83	.280	7,12	.235	5,97	1712-4009
	.229	5,82	.319	8,11	.274	6,96	1712-4010
	.268	6,81	.359	9,12	.314	7,98	1712-4011
4,8mm	.307	7,80	.397	10,10	.352	8,94	1712-4012
	.385	9,78	.475	12,07	.430	10,92	1712-4015
							Series 1733 Zinc Plated & Clear Dichromate
4,8mm	.342	8,71	.342	8,71	.342	8,71	1712-4810
	.530	13,46	.530	13,46	.530	13,46	1712-4816

Notes:

1. To install Avdel Cherry fasteners, use of Avdel Cherry specified installation tooling is recommended.
2. Avdel Cherry fasteners are ready for use as supplied and should not be reprocessed or degreased prior to installation, as this may affect performance.
3. Unpodded rivets for use with Rivmatic are coded 1712-9XXX (5th digit=9). They are identical to the 1712-0XXX rivets, but screened for use in automated equipment.
4. Items listed on these pages represent currently manufactured parts. Please contact your Avdel Cherry representative regarding lengths or dimensions not listed.

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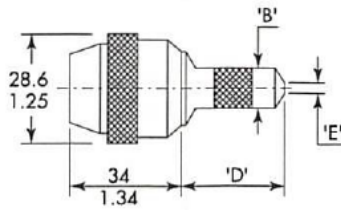
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Removal Key Size	
3,0mm	1/16" (.0615/.0625)
3,5mm	5/64 (.0771-.0781)
4,0mm	2,55mm (2.47-2.50)
4,8mm	2,55mm (2.47-2.50)

Nose Equipment RIVSCREW®					
	Nom. Dia.	Part No.	Inch Dimensions		
			B	D	E
Standard Jaw	3.0	7271-3000	.41	1.18	.24
	3.5	7271-3500	.41	1.18	.24
	4.0	7271-4000	.41	1.18	.25
	4.8	7170-4800	.56	1.18	.33
Long Jaw	3.0	7271-3200	.41	2.18	.24
	3.5	7271-3700	.41	2.18	.24
	4.0	7271-4200	.41	2.18	.25
	4.8	7271-5200	.56	2.30	.33

Mandrel Specifications RIVSCREW®							
Rivet Diameter	Hole Size	Mandrel Head	Description	Spring P/N	Long or Curved Spring P/N	Regular Mandrel P/N	Long Mandrel P/N
3mm	.111/.114	.065 A/F	Standard	7271-6630	7271-7630	7271-6030	7271-7030
3,5mm	.122/.125	.082 A/F	Standard	7271-6635	7271-7635	7271-6035	7271-7035
4mm	.137/.140	.097 A/F	Standard	7271-6640	7271-7640	7271-6040	7271-7040

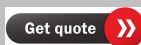
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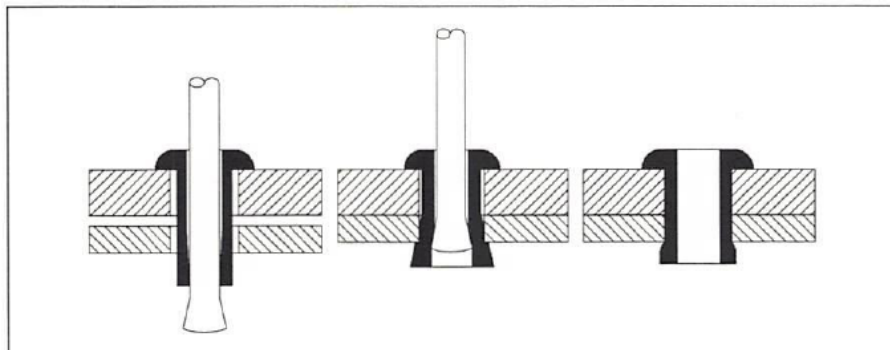


The original speed fastening system used in a wide variety of materials.



Benefits:

- **Controlled Radial Expansion**
A wide range of mandrel sizes enables Chobert® to assemble the most brittle materials without cracking.
- **Tapered Bore**
Internal taper creates greater expansion at the tail of the fastener, allowing joint tightness to be regulated.
- **Multiple Head Styles and Materials**
Chobert® fasteners are available in dome, low-profile and truss head styles, as well as aluminum, steel and brass materials.



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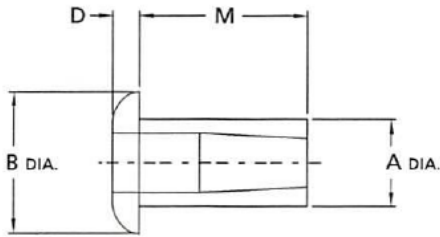
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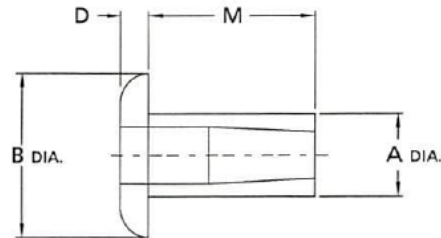
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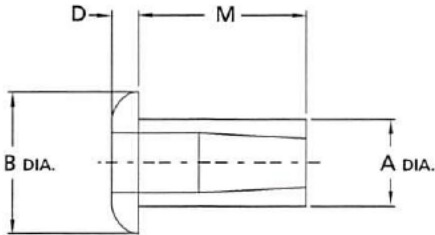
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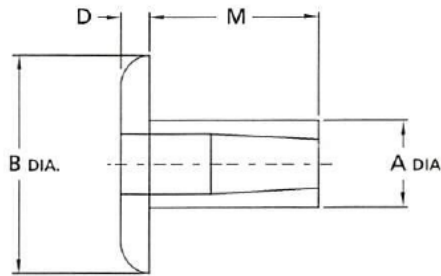
DOME HEAD



LOW PROFILE HEAD



1/8" UNDERSIZED HEAD



TRUSS HEAD

Nom. Rivet Diam.	Hole Size	W Nom. Mand. Diam.*	Series 1121, 1125, 1131 Dome Head			Series 1162 Lo Pro Head		Series 1164 1/8" Undersized Head		Series 1192 Truss Head	
			A Rivet Diam.	B Head Diam.	D Max. Head Thick.	B Head Diam.	D Max. Head Thick.	B Head Diam.	D Max. Head Thick.	B Head Diam.	D Max. Head Thick.
3/32	.098 - .100	.072	.0935-.0975	.149-.163	.025-.037						
1/8	.129 - .132**	.088	.1245-.1280^	.193-.217	.033-.045	.243-.262	.034-.041	.193-.217	.033-.045	.315-.335	.034-.044
5/32	.161 - .164	.107	.1560-.1590	.235-.257	.047-.057					.365-.385	.047-.057
3/16	.191 - .194	.132	.1850-.1910	.329-.349	.060-.070						
1/4	.250 - .253	.184	.2445-.2485	.389-.413	.072-.084						

*Multiple mandrel diameters available - see Chobert® mandrel selection
 **1/8" undersized Chobert® uses a .120 - .123 hole

^1/8" 1164 undersized A. dimension is .1145-.1185

Typical Rivet Shear and Tensile Strength (lbs.)
 CHOBERT®

Rivet Diam.	Series 1121 Steel		Series 1125 Aluminum		Series 1131 Aluminum		Series 1141 & 1143 Brass		Series 1162 Aluminum		Series 1164 Aluminum		Series 1192 Aluminum	
	Shear	Tens.	Shear	Tens.	Shear	Tens.	Shear	Tens.	Shear	Tens.	Shear	Tens.	Shear	Tens.
3/32					97	97	170							
1/8	258	373	140	225			290		140	225	129	207	140	225
5/32	433	650	220	365									220	365
3/16	588	852	320	515										
1/4	1140	1198			170	268								

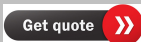
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G
Grip is total of material thicknesses

Series	Material	Finish
1121	Steel	Zinc Plated
1125	Aluminum	Plain
1131	Aluminum	Plain
1141	Brass	Bright
1143	Brass	Hot Tin Dipped
1162	Aluminum	Plain
1164	Aluminum	Plain
1192	Aluminum	Plain

Rivet Diam.	G Rivet Grip Range	M Length Max.	Series 1121 Steel	Series 1125 Alum.	Series 1131 Alum.	Series 1141 & 1143 Brass	Series 1162 Alum.	Series 1164 Alum. 1/8" undersized	Series 1192 Alum.
3/32"	.000 - .062	.125			1131-0304	1141/43-0304			
	.062 - .125	.187			1131-0306	1141/43-0306			
	.125 - .187	.250			1131-0308	1141/43-0308			
	.187 - .250	.312			1131-0310	1141/43-0310			
	.250 - .312	.375			1131-0312	1141/43-0312			
1/8"	.000 - .062	.125	1121-0404	1125-0404		1141/43-0404	1162-0404		
	.062 - .125	.187	1121-0406	1125-0406		1141/43-0406	1162-0406	1164-0406	1192-0406
	.125 - .187	.250	1121-0408	1125-0408		1141/43-0408	1162-0408	1164-0408	1192-0408
	.187 - .250	.312	1121-0410	1125-0410		1141/43-0410	1162-0410	1164-0410	1192-0410
	.250 - .312	.375	1121-0412	1125-0412			1162-0412	1164-0412	1192-0412
	.312 - .375	.437		1125-0414			1162-0414	1164-0414	1192-0414
	.375 - .437	.503					1162-0416		
5/32"	.062 - .125	.187	1121-0506	1125-0506					
	.125 - .187	.250	1121-0508	1125-0508					1192-0508
	.187 - .250	.312	1121-0510	1125-0510					
	.250 - .312	.375	1121-0512	1125-0512					
	.312 - .375	.437	1121-0514	1125-0514					1192-0514
	.375 - .437	.503		1125-0516					
3/16"	.062 - .125	.291	1121-0607	1125-0607					
	.125 - .187	.281	1121-0609	1125-0609					
	.187 - .250	.344	1121-0611	1125-0611					
	.250 - .312	.409	1121-0613	1125-0613					
	.312 - .375	.469	1121-0615	1125-0615					
	.375 - .437	.531		1125-0617					
	.437 - .500	.594		1125-0619					
1/4"	.125 - .187	.281	1121-0809		1131-0809				
	.187 - .250	.344	1121-0811		1131-0811				
	.250 - .312	.406	1121-0813		1131-0813				

Notes:

- To install Avdel Cherry fasteners, use of Avdel Cherry specified installation tooling is recommended.
- Avdel Cherry fasteners are ready for use as supplied and should not be reprocessed or degreased prior to installation, as this may affect performance.
- Unpadded rivets for use with Rivmatic are coded 1162-9XXX (5th digit=9). They are identical to the 1162-0XXX rivets, but screened for use in automated equipment.
- Items listed on these pages represent currently manufactured parts. Please contact your Avdel Cherry representative regarding lengths or dimensions not listed.

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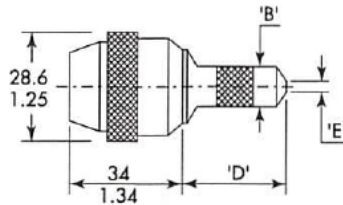
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Nose Equipment CHOBERT®			Nom. Diam.	Jaw Type	Part No.	Inch Dimensions		
Nom. Diam.	Jaw Type	Part No.				B	D	E
3/32	Std Flat	7150-3003	5/32	Std Flat	7150-3005	.48	1.30	.24
	Std Tapered	7170-3103		Std Tapered	7150-3105	.44	1.30	.24
	Std Flat Cam Operated	7170-4500		Std Flat Cam Operated	7170-4700	.48	1.30	.24
	Std Flat Cam Operated	7170-4500		Long Flat	7150-4005	.48	2.30	.24
	Long Flat	7150-4003		Long Curved Flat	7150-5005	.48	2.23	.24
	Long Curved Flat	7150-5003		Long Flat Cam Operated	7170-5100	.48	2.30	.24
	Std Ltd Access Cam Oper	7177-3003		Std Flat	7150-3006	.56	1.18	.33
	Std Ltd Access Rdcd Diam	7274-1000		Std Tapered	7150-3106	.56	1.18	.33
1/8	Std Flat	7150-3004	3/16	Std Flat Cam Operated	7170-4800	.56	1.18	.33
	Std Tapered	7170-3104		Long Flat	7150-4006	.56	2.30	.33
	Std Flat Cam Operated	7170-4600		Long Curved Flat	7150-5006	.56	2.22	.33
	Long Flat	7150-4004		Long Flat Cam Operated	7170-5200	.56	2.30	.33
	Long Curved Flat	7150-5004		Std Flat	7150-3008	.64	1.18	.39
	Long Flat Cam Operated	7170-5000		Long Flat	7150-4008	.64	2.18	.39
			1/4					

Mandrel Specifications CHOBERT®									
Rivet Diam.	Hole Size	Mandrel Head	Description	Spring P/N	Long or Curved Spring P/N	Regular Mandrel P/N	Long or Curved Mandrel P/N	Short Reach Part Number	
								Regular Length	Long or Curved
3/32	.098	.072	Standard	7150-6803	7150-7803	7150-6003	7150-7003	7150-8003	7150-9003
	.100	.074	#1 O.S.	7150-6803	7150-7803	7150-6303			
	.102	.076	#2 O.S.	7150-6803	7150-7803	7150-6103	7150-7103	7150-8103	7150-9103
1/8	.128	.088	Standard	7150-6804	7150-7804	7150-6004	7150-7004	7150-8004	7150-9004
	.133	.092	#1 O.S.	7150-6804	7150-7804	7150-6104	7150-7104	7150-8104	7150-9104
	.140	.098	#2 O.S.	7150-6804	7150-7804	7150-6204	7150-7204	7150-8204	7150-9204
	.144	.102	#3 O.S.	7150-6804	7150-7804	7150-6304	7150-7304	7150-8304	7150-9304
	.161	.107	Standard	7150-6805	7150-7805	7150-6005	7150-7005	7150-8005	7150-9005
5/32	.169	.115	#1 O.S.	7150-6805	7150-7805	7150-6105	7150-7105	7150-8105	7150-9105
	.176	.122	#2 O.S.	7150-6805	7150-7805	7150-6205	7150-7205	7150-8205	7150-9205
	.186	.132	#3 O.S.	7150-6805	7150-7805	7150-6305	7150-7305	7150-8305	7150-9305
	.193	.132	Standard	7150-6806	7150-7806	7150-6006	7150-7006	7150-8006	7150-9006
3/16	.208	.146	#1 O.S.	7150-6806	7150-7806	7150-6106	7150-7106	7150-8106	7150-9106
	.218	.156	#2 O.S.	7150-6806	7150-7806	7150-6206	7150-7206	7150-8206	7150-9206
	.257	.184	Standard	7150-6808	7150-7808	7150-6008	7150-7008	7150-8008	7150-9008
1/4	.269	.196	#1 O.S.	7150-6808	7150-7808	7150-6108	7150-7108	7150-8108	7180-9108

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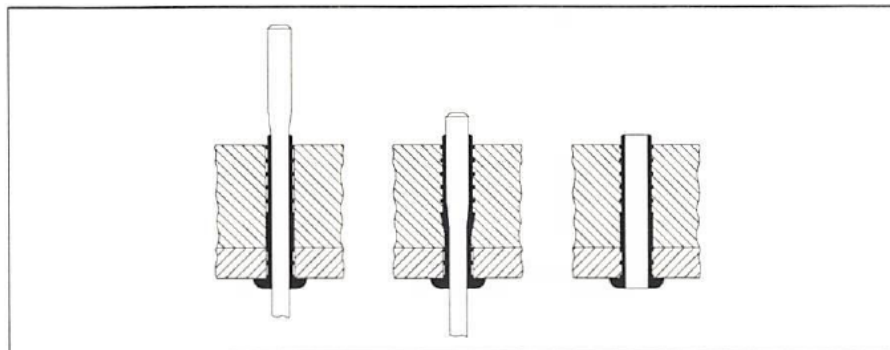


Designed to provide a superior attachment of through hole or surface mount connectors to printed circuit boards without the risk of cracking brittle connector material.



Benefits:

- **Stress Relief**
Annular grooves on the Avtronic™ shell allow for the stress relief of mating material, thus eliminating the cracking of brittle connector bodies.
- **Available in Two Diameters**
Meets standard hole sizes specified in DIN and other commonly used connectors.
- **Offered in Nine Lengths**
Avtronic™ accommodates any combination of P.C. board thicknesses and connector configurations.
- **Two Materials**
Aluminum to repel solder; brass with a hot tin dipped coating to accept solder.



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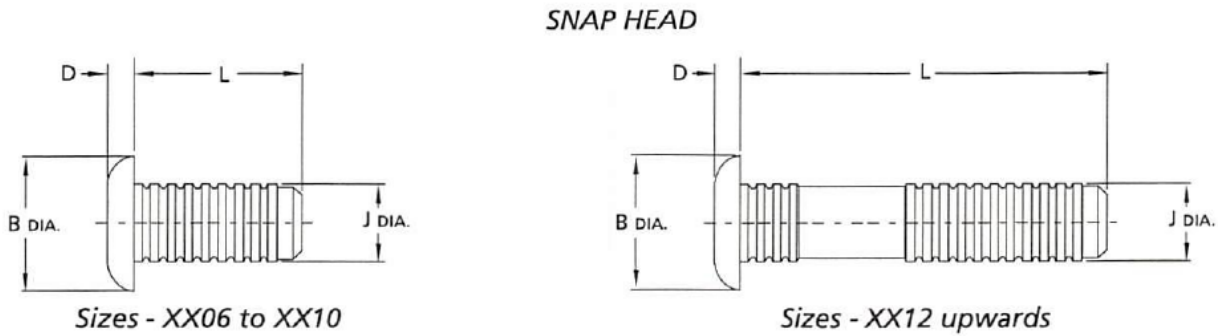
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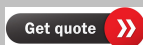
Nom. Diam.	Hole Size	W Nom. Mand. Diam.*	Snap Head					
			J Diam.		B Head Diam.		D Max. Head Thick.	
			inch	mm	inch	mm	inch	mm
2,5mm	.098 - .102	.071	.091-.096	2,31-2,48	1.49-1.63	3,78-4,14	.021-.037	,530-,940
2,8mm	.110 - .114	.079	.101-.108	2,58-2,74	1.49-1.63	3,78-4,14	.021-.037	,530-,940

*Multiple mandrel diameters available - see Avtronic™ mandrel selection

Typical Shear and Tensile Strength (lbs.) AVTRONIC™				
Diam.	Series 1188 Brass		Series 1189 Aluminum	
	Shear	Tens.	Shear	Tens.
2,5mm	155		65	
2,8mm				

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G

Grip is total of material thicknesses

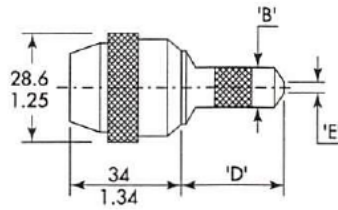
Series	Material	Finish
1188	Brass	Hot Tin Dipped
1189	Aluminum	Plain

Rivet Diam.	AVTRONIC™ Length Max. L		Series 1188 Brass	Series 1189 Aluminum
	Inch	mm		
2,5mm	.204	5,18	1188-2506	1189-2506
	.267	6,78	1188-2508	1189-2508
	.329	8,36	1188-2510	1189-2510
	.392	9,96	1188-2512	1189-2512
	.454	11,53	1188-2514	1189-2514
	.517	13,13	1188-2516	1189-2516
	.579	14,71	1188-2518	1189-2518
	.642	16,31	1188-2520	1189-2520
	.704	17,88	1188-2522	1189-2522
2,8mm	.204	5,18	1188-2806	1189-2806
	.267	6,78	1188-2808	1189-2808
	.329	8,36	1188-2810	1189-2810
	.392	9,96	1188-2812	1189-2812
	.454	11,53	1188-2814	1189-2814
	.517	13,13	1188-2816	1189-2816
	.579	14,71	1188-2818	1189-2818
	.642	16,31	1188-2820	1189-2820
	.704	17,88	1188-2822	1189-2822

Notes:

1. To install Avdel Cherry fasteners, use of Avdel Cherry specified installation tooling is recommended.
2. Avdel Cherry fasteners are ready for use as supplied and should not be reprocessed or degreased prior to installation, as this may affect performance.
3. Unpopped rivets for use with Rivmatic are coded 1188-9XXX (5th digit=9). They are identical to the 1188-0XXX rivets, but screened for use in automated equipment.
4. Items listed on these pages represent currently manufactured parts. Please contact your Avdel Cherry representative regarding lengths or dimensions not listed.





Nose Equipment AVTRONIC™					
Nom. Diam.	Jaw Type	Part No.	Inch Dimensions		
			B	D	E
2,5mm	Std Flat	7150-3003	.36	1.30	.16
	Std Tapered	7170-3103	.36	1.30	.16
	Std Flat Cam Operated	7170-4500	.36	1.30	.16
	Long Flat	7150-4003	.41	2.30	.16
	Std Ltd Access Cam Operated	7177-3003	.20	1.18	.18
	Std Ltd Access Reduced Diam	7274-1000	.22	1.07	.18
2,8mm	Std Flat	7271-5600	.36	1.30	.16
	Long Flat	7271-5900	.41	2.30	.16
	Ltd Access Cam Operated	7271-8100	.40	1.18	.16

Mandrel Specifications AVTRONIC™								
Rivet Diam.	Hole Size	Mandrel Head	Description	Spring P/N	Long or Curved Spring P/N	Regular Mandrel P/N	Long or Curved Spring P/N	Hydra Module
2,5mm	.102	.070	Standard	7150-6803	7150-7803	7170-6025	7170-7025	7471-6025
	.105	.073	#1 O.S.	7150-6803	7150-7803	7170-6125	7170-7125	7471-6125
	.108	.076	#2 O.S.*	7150-6803	7150-7803	7170-6225	7170-7225	7471-6225
2,8mm	.114	.079	Standard	7170-6528	7170-7528	7170-6028	7170-7028	7471-6028
	.117	.082	#1 O.S.	7170-6528	7170-7528	7170-6128	7170-7128	7471-6128
	.120	.085	#2 O.S.*	7170-6528	7170-7528	7170-6228	7170-7228	7471-6228

* #2 O.S. mandrel not recommended for use with 1189 series.

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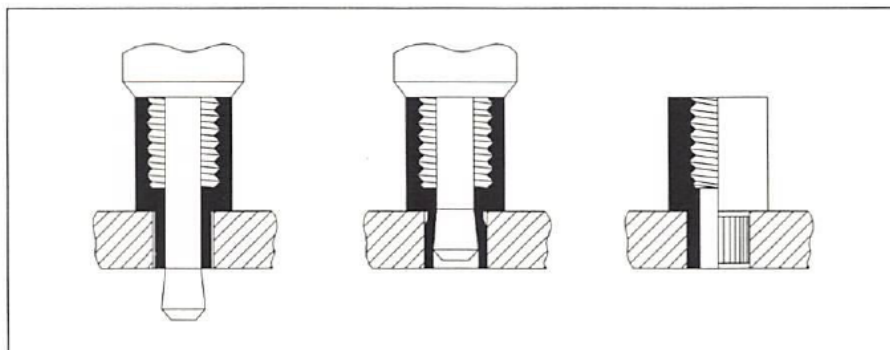


Versatile, internally-threaded standoff for the replacement of screw lock assemblies or pressed-in standoffs.



Benefits:

- **Blind Placement**
Unlike other threaded standoffs, Avsert® is placed from one side of the application.
- **Multiple Lengths Available**
Standard spacer lengths available up to .500".
- **Internally Threaded**
4-40 or M3 standard threads (6.32 available as a special).
- **Knurled Spigot**
Knurled spigot ensures a rigid and secure placement.



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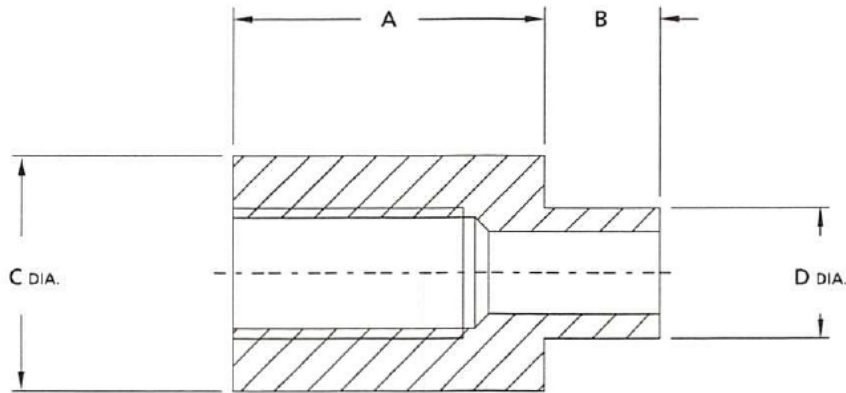
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AVSERT® Series 1110 Brass with Nickel Plate*				
Part No.	A	B	C	D
1110-2374	.190	.207-.213	.183-.194	.116-.119
1110-2375	.220	.149-.153		
1110-2376	.240	.147-.153		
1110-2377	.240	.299-.303		
1110-2378	.240	.379-.383		
1110-2380	.500	.149-.153		

Notes:

1. To install Avsert® use 1/8" nose piece (part number 7170-4600).
2. To install Avdel Cherry fasteners, use of Avdel Cherry specified installation tooling is recommended.
3. Avdel Cherry fasteners are ready for use as supplied and should not be reprocessed or degreased prior to installation, as this may affect performance.
4. Unpodded Avserts® for use with Rivmatic are coded 1110-9XXX (5th digit=9). They are identical to the 1110-0XXX rivets.
5. Items listed on these pages represent currently manufactured parts. Please contact your Avdel Cherry representative regarding lengths or dimensions not listed.

Mandrel Specifications AVSERT®									
Rivet Diam.	Hole Size	Mandrel Head	Description	Spring P/N	Long or Curved Spring P/N	Regular Mandrel P/N	Long or Curved Spring P/N	Short Reach Part Number	
								Regular Length	Long or Curved
4-40	.120	.088	Standard	7150-6804	7150-7804	7150-6004	7150-7004	7150-8004	7150-9004

*Also available in steel with a zinc clear coating. Longer and shorter lengths are available as specials. Contact customer service.

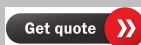
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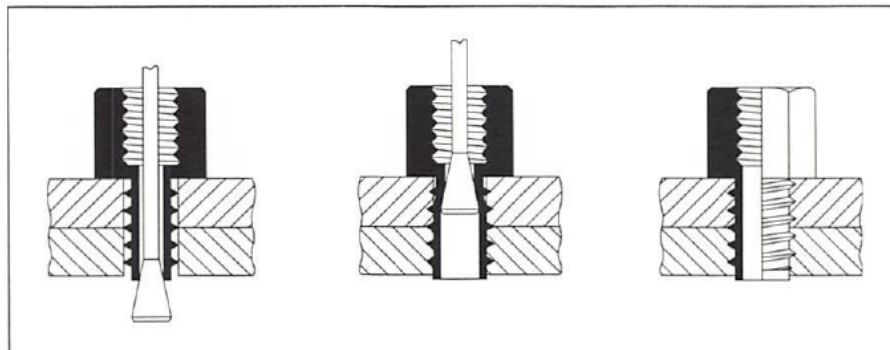


Combines the features of the Avert® with the removability benefit of RivscREW®.



Benefits:

- **Removable**
Threaded spigot and hexagonal shaped spacer body allow quick removal, facilitating application serviceability.
- **Internally Threaded**
4-40 or M3 standard threads
- **Various Lengths**
.190" and .240" spacer lengths available; special lengths can be quoted
- **Blind Placement**
Unlike other threaded standoffs, Rivscrew® SP is placed from one side of the application.



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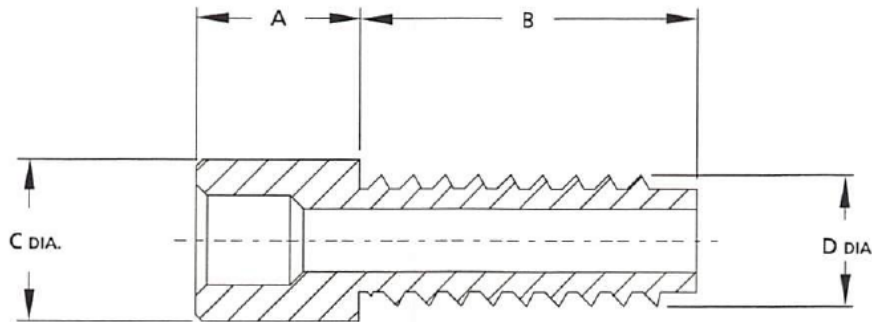
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Rear sheet — Rivscrew® SP is not recommended for use where the rear sheet hardness is in excess of 15T 72.0

RIVSCREW® SP Series 1710 Steel Zinc Clear Dichromate				
Part No.*	A	B	C	D
1710-XXXX	.185 - .195	.110	3/16" Across Flats	.118 max.
1710-XXXX		.180		
1710-XXXX		.240		
1710-XXXX	.235 - .245	.110		
1710-XXXX		.180		
1710-XXXX		.240		

* Assigned as needed.

Notes:

1. To install Rivscrew® SP use 1/8" nose piece (part number 7170-4600).
2. To install Avdel Cherry Textron fasteners, use of Avdel Cherry Textron specified installation tooling is recommended.
3. Avdel Cherry Textron fasteners are ready for use as supplied and should not be reprocessed or degreased prior to installation, as this may affect performance.
4. Unpodded Rivscrew® SP for use with Rivmatic are coded 1710-9XXX (5th digit=9). They are identical to the 1710-0XXX rivets.

Mandrel Specifications RIVSCREW® SP						
Rivet Diameter	Hole Size	Mandrel Head	Spring P/N	Long Spring P/N	Mandrel P/N	Long Mandrel P/N
3/16"	.120 - .124	.081	7150 - 6804	7150 - 7804	7159 - 9881	7159-1880

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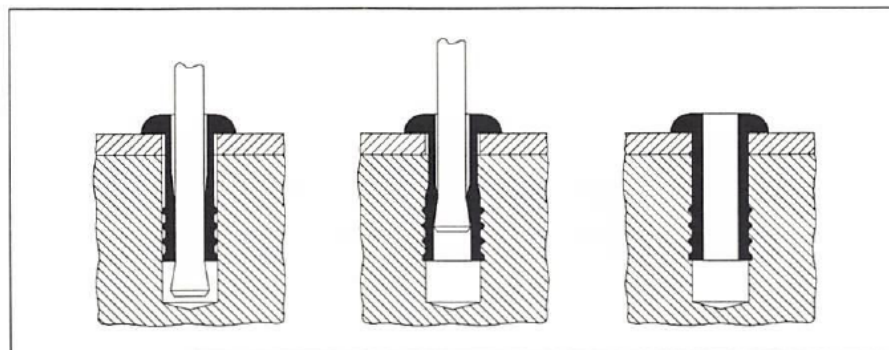
Used with thicker gauge plastics, fiberglass, aluminum alloy and similar materials.



Benefits

- **Annular Grooves**
Annular grooves expand within the host material to provide a secure anchorage.
- **Stress Relief**
Annular grooves on the fastener shank allow for the stress relief of mating material, eliminating potential cracking problems.
- **Versatile**
Grovit® fasteners can be placed into aluminum, plastic, fiberglass, and related materials.

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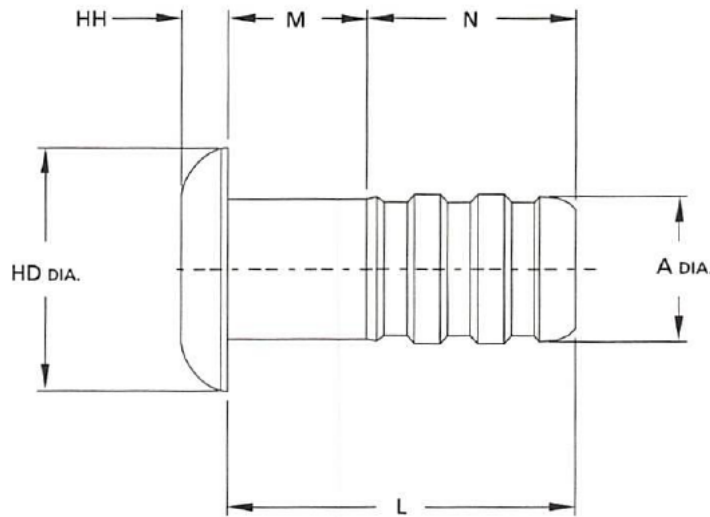
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Nom. Rivet Diam.	Hole Size	W Sugg. Mand. Diam.*	A Rivet Diam.	Series 1101, 1103 Snap Head		Series 1104 Countersunk Head	
				HD Head Diam.	HH Max. Head Thick.	HD Head Diam.	HH Max. Head Thick.
3/32	.104	.076	.100	.156	.026-.030		
1/8	.136	.098	.135	.205	.034-.044	.205	
5/32	.173	.122	.172	.245	.047-.057	.245	
3/16	.199	.146	.199	.339	.060-.070	.339	

*Multiple mandrel diameters available - see Grovit® mandrel selection

Series	Material	Finish
1101	Steel	Zinc Plated
1103	Aluminum	Polished
1104	Aluminum	Polished

G

Grip is total of material thicknesses

30

Rivet Diam.	L/G GROVIT® Length Max.		M Max.		N No. of Grooves	Series 1101 Steel	Series 1103 Aluminum	Series 1104 Aluminum
	Inch	mm	Inch	mm				
3/32"	.187	4,76	.078	1,98	2		1103-0306	
1/8	.312	7,93	.125	3,17	3	1101-0410	1103-0410	1104-0410
5/32	.250	6,35	.063	1,58	3	1101-0508	1103-0508	1104-0508
	.375	9,52	.125	3,17	4	1101-0512		
	.437	11,11	.187	4,76	4	1101-0514	1103-0514	1104-0514
3/16	.281	7,14	.094	2,38	3	1101-0609	1103-0609	1104-0609
	.593	15,08	.343	8,73	4	1101-0619	1103-0619	1104-0619

Notes:

- To install Avdel Cherry fasteners, use of Avdel Cherry specified installation tooling is recommended.
- Avdel Cherry fasteners are ready for use as supplied and shall not be reprocessed or degreased prior to installation as this may affect performance.
- Unpadded rivets for use with Rivmatic are coded 1103-9XXX (5th digit=9). They are identical to the 1103-XXXX rivets, but screened for use in automated equipment.
- Items listed on these pages represent currently manufactured parts. Please contact your Avdel Cherry representative regarding lengths or dimensions not listed.

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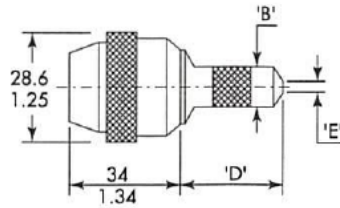
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Nose Equipment GROVIT®												
Nom. Diam.	Jaw Type	Part No.	Inch Dimensions			Nom. Diam.	Jaw Type	Part No.	Inch Dimensions			
			B	D	E				B	D	E	
3/32	Std Flat	7150-3003	.36	1.30	.16	5/32	Std Flat	7150-3005	.48	1.30	.24	
	Std Tapered	7170-3103	.36	1.30	.16		Std Tapered	7150-3105	.44	1.30	.24	
	Std Flat Cam Operated	7170-4500	.36	1.30	.16		Std Flat Cam Operated	7170-4700	.48	1.30	.24	
	Long Flat	7150-4003	.41	1.35	.16		Long Flat	7150-4005	.48	2.30	.24	
	Long Curved Flat	7150-5003	.41	2.30	.16		Long Curved Flat	7150-5005	.48	2.23	.24	
	Std Ltd Access Cam Operated	7177-3003	.20	2.23	.18		Long Flat Cam Operated	7170-5100	.48	2.30	.24	
	Std Ltd Access Reduced Diam.	7274-1000	.22	2.35	.18		3/16	Std Flat	7150-3006	.56	1.18	.33
	1/8	Std Flat	7150-3004	.41	1.18			.20	Std Tapered	7150-3106	.56	1.18
Std Tapered		7170-3104	.41	1.18	.20	Std Flat Cam Operated		7171-4800	.56	1.18	.33	
Std Flat Cam Operated		7170-4600	.41	1.18	.20	Long Flat		7150-4006	.56	2.30	.33	
Long Flat		7150-40044	.41	2.18	.20	Long Curved Flat		7150-5006	.56	2.22	.33	
Long Curved Flat		7150-5004	.41	2.12	.20	Long Flat Cam Operated		7170-5200	.56	2.30	.33	
Long Flat Cam Operated		7170-5000	.41	2.18	.20							

Mandrel Specifications GROVIT®									
Rivet Diam.	Hole Size	Mandrel Head	Description	Spring P/N	Long or Curved Spring P/N	Regular Mandrel P/N	Long or Curved Spring P/N	Short Reach Part Number	
								Regular Length	Long or Curved
3/32	.104	.076	#2 O.S.	7150-6803	7150-7803	7150-6103	7150-7103	7150-8103	7150-9103
1/8	.136	.098	#2 O.S.	7150-6804	7150-7804	7150-6204	7150-7204	7150-8204	7150-9204
5/32	.173	.122	#2 O.S.	7150-6805	7150-7805	7150-6205	7150-7205	7150-8205	7150-9205
3/16	.201	.146	#1 O.S.	7150-6806	7150-7806	7150-6106	7150-7106	7150-8106	7150-9106

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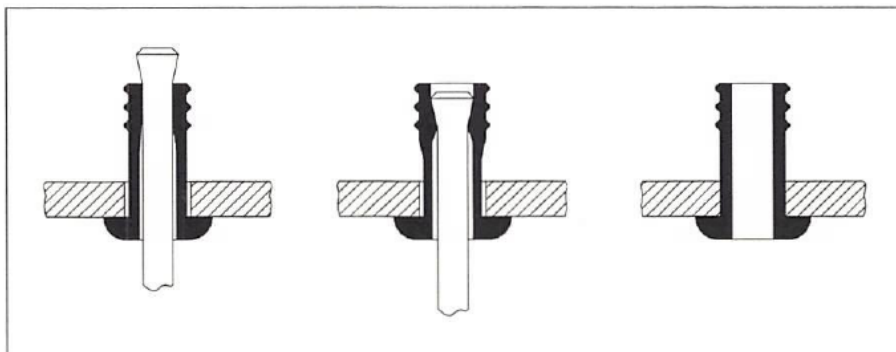
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Secure, easy-to-solder terminal post for PCB applications.



Benefits:

- **Accepts Solder**
Designed for use as a terminal post, Avlug® is made of brass with a hot tin dipped coating to accept solder.
- **Multiple Diameters**
Available in 1/16 (1.6mm), 3/32 (2.4mm), and 1/8 (3.2mm).
- **Secure Anchorage**
Knurled shank provides a secure assembly.



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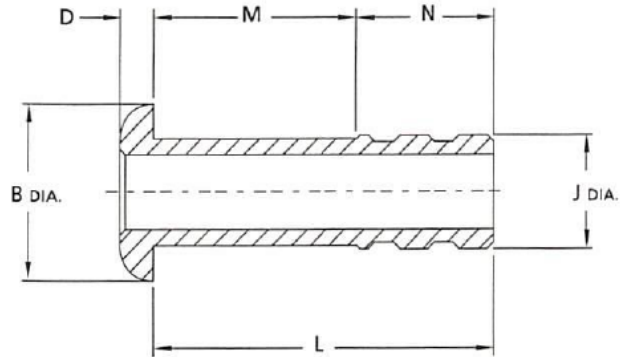
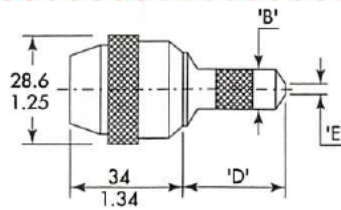
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Nom. Rivet Diam.	Hole Size	W Nom. Man. Diam.*	J Rivet Diam.	Snap Head	
				B Head Diam.	D Max Head Thick.
1/16	.071	.051	.065-.070	.100-.110	.017-.024
3/32	.104	.076	.097-.102	.149-.163	.025-.037
1/8	.136	.098	.127-.132	.193-.217	.033-.045

*Multiple mandrel diameters available - see Avlug® mandrel selection

Nose Equipment AVLUG®					
Nom. Dia.	Jaw Type	Part No.	Inch Dimensions		
			B	D	E
1/16	Std Flat	7154-3102	.215	1.06	.105
3/32	Std Flat	7150-3003	.36	1.30	.16
3/32	Long Flat	7150-4003	.41	2.30	.16
1/8	Std Flat	7150-3004	.41	1.18	.20
1/8	Long Flat	7150-4004	.41	2.18	.20

Rivet Diam.	L AVLUG® Length Max.		M Max.		N No. of Grooves	Series 1107 Brass Hot Tin Dipped
	Inch	mm	Inch	mm		
1/16"	.256	6,51	.080	2,04		-0208
3/32	.329	8,36	.135	3,43	2	-0310
	.392	9,96	.102	3,43	3	-0312
1/8	.392	9,96	1.35	3,43	3	-0412

Mandrel Specifications AVLUG®									
Rivet Diameter	Hole Size	Mandrel Head	Description	Spring P/N	Long or Curved Spring P/N	Regular Mandrel P/N	Long or Curved Mandrel P/N	Short Reach Part Number	
								Regular Length	Long or Curved
1/16	.070	.051	Standard	7154-6802		7154-6602			
	.075	.056	#1 O.S.	7154-6802		7155-6702			
3/32	.104	.076	Standard	7150-6803	7150-7803	7150-6603	7150-7603		
	.109	.079	#1 O.S.	7150-6803	7150-7803	7150-6703	7150-7703		
1/8	.136	.098	Standard	7150-6804		7150-6604			

Notes:

- To install Avdel Cherry fasteners, use of Avdel Cherry specified installation tooling is recommended.
- Avdel Cherry fasteners are ready for use as supplied and should not be reprocessed or degreased prior to installation, as this may affect performance.
- Unpotted rivets for use with Rivmatic are coded 1107-9XXX (5th digit=9). They are identical to the 1107-0XXX rivets, but screened for use in automated equipment.
- Items listed on these pages represent currently manufactured parts. Please contact your Avdel Cherry representative regarding lengths and dimensions not listed.

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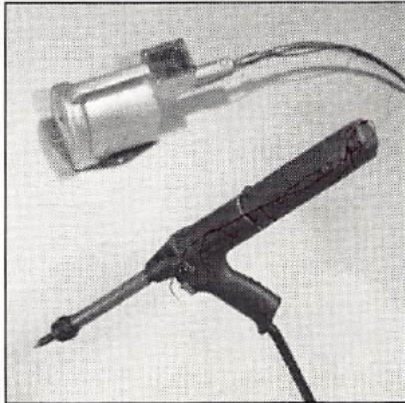
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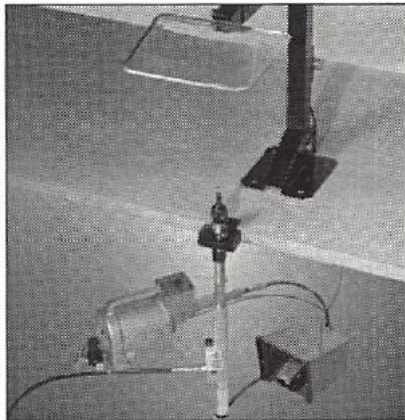
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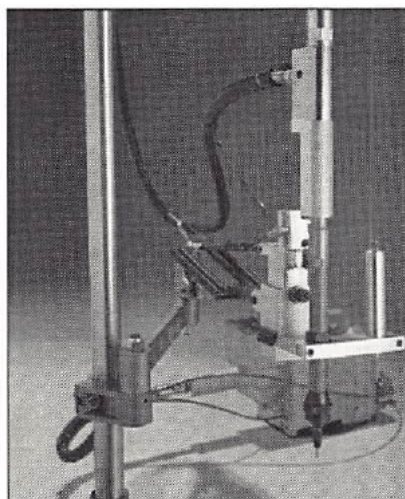
7530-0100
Lightweight Speed Fastening Tool

- Hand held
- Fast and smooth operation
- Lightweight - only two pounds
- Versatile - available with in-line handle and top or bottom hose configuration (84" std. hose length)
- Installs all speed fasteners, up to 1,500 per hour
- Uses regular length mandrels, unless using a long or curved nose piece



MA30124
Hydra Bench Mount with Foot Pedal

- Bottom-up fastener placement
- Bench mounting frees operator's hands
- Convenient foot trigger
- Installs all speed fasteners, up to 1,500 per hour
- Uses long mandrels



MA30122
Hydra with Balance Arm and Offset Handle

- Top-down fastener placement
- Balance arm designed to keep the tool perpendicular to the application during fastener placement
- Balance arm extension: 24"
- Tool rotates 90° for easy access loading
- Installs all speed fasteners, up to 1,500 per hour
- Uses long mandrels

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MA30826

Electronic Work Station (EWS)

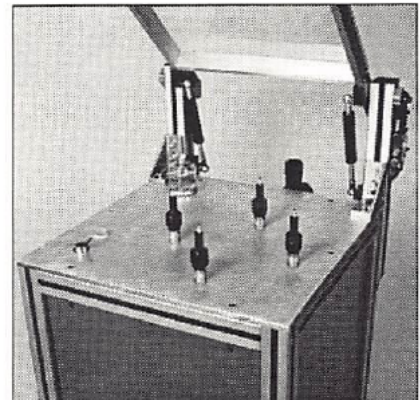
- Free standing work station
- Twin adjustable placement heads, able to place two fasteners simultaneously
- Variable hole centers from 1.8 to 8.4 inches
- Foot pedal activation frees operator's hands to hold application
- Dimensions: work area 16" width, 19" depth, and height adjustable from 27" to 32"
- Places all speed fasteners, up to 3,000 per hour
- Uses long mandrels



HYDRA 1000

Multiple Head, Custom Work Stations

- Bottom-up or top-down placement
- From two to fifty heads
- Fasteners act as an assembly fixture
- Tailor-made to the user's specific application
- Allows the simultaneous placing of multiple speed fasteners, up to 1,500 per hour per head

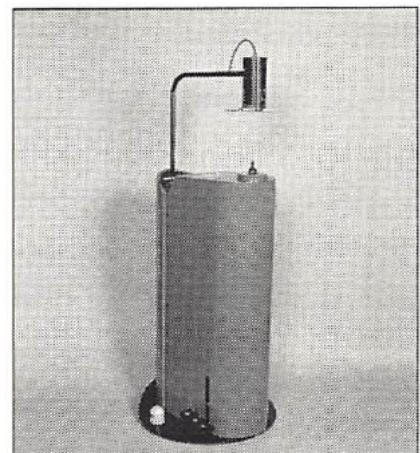


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7192 SERIES

Rivmatic

- Continuous feed, hopper-fed fastening system
- Foot pedal activated
- Bottom-up placement, up to 3,000 fasteners per hour



**Other continuous-feed and automated speed fastening systems are available.
Contact your Avdel Cherry representative.**

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Notes

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Avdel Cherry Textron Inc.
Registered To ISO9001/QS9000
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