

HANLON STUD WELDING

STUD WELDING CATALOG

 **MADE IN AMERICA**



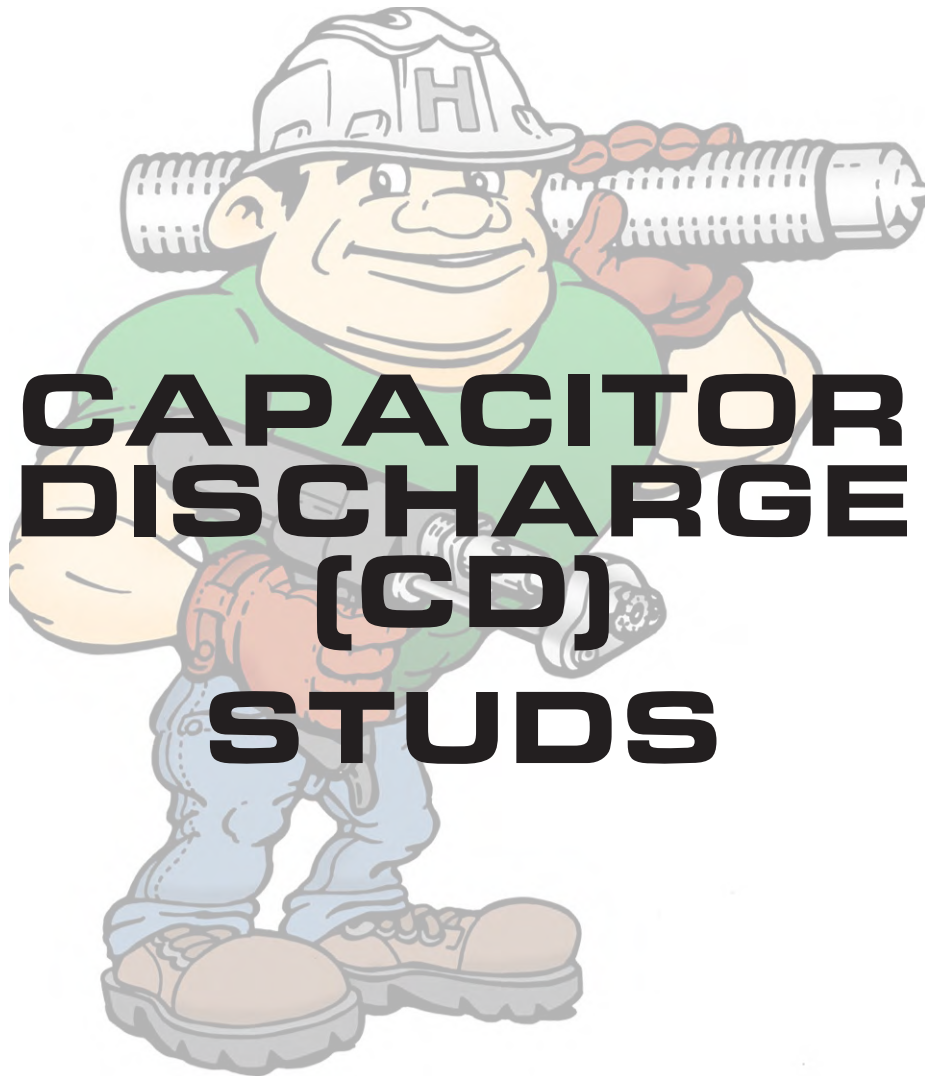
HANLON STUD WELDING

1157 PAGNI DRIVE

ELK GROVE VILLAGE, IL 60007

PHONE: 847-228-1990 • Toll Free: 1-800-HANLONS (426-5667) • FAX: 847.228.1995

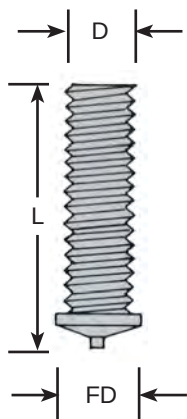
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 **MADE IN AMERICA**

FLANGED CDF

STUD SPECIFICATIONS



D	FD	MIN L
4-40	.187	.250
6-32	.218	.250
8-32	.250	.250
10-32	.250	.250
10-24	.250	.250
1/4-20	.312	.375
5/16-18	.375	.500
3/8-16	.437	.500

D	FD	MIN L
M2.5 X 0.45	3.1	6
M3 X 0.50	4.5	6
M4 X 0.70	5.5	6
M5 X 0.80	6.8	8
M6 X 1.00	8	8
M8 X 1.25	9	9



MATERIAL

LOW CARBON STEEL

C - 0.23% Max P - 0.04% Max
Mn - 0.90% Max S - 0.05% Max

STAINLESS STEEL

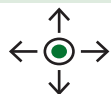
AISI Grade: 302/304/305 Standard
Other grades are available.



MECHANICAL PROPERTIES

Tensile: 60,000 psi (min)
Yield: 50,000 psi (min)
Elongation: 20% (in 2 inches)

Tensile: 85,000 psi (min)
Yield: 40,000 psi (min)



PLATING & ANNEALING

Copper plating is standard.
Other plating is available.
Studs are annealed where required.

Studs are annealed where required.



MATERIAL

ALUMINUM

Alloy: 1100 & 5000 Series
Other alloys are available.

BRASS

Alloy (Lead Free) 70-30 is standard.
Other alloys are available.



MECHANICAL PROPERTIES

Tensile: 42,000 psi (min) 5000 Series
Yield: 30,000 psi (min) 5000 Series

Tensile: 70,000 psi (min)
Yield: 50,000 psi (min)

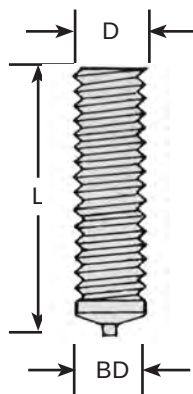


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NON FLANGED CDNF

STUD SPECIFICATIONS



D	FD	MIN L
4-40	.116	.250
6-32	.142	.250
8-32	.168	.250
10-32	.194	.250
10-24	.194	.250
1/4-20	.252	.375
5/16-18	.315	.500



MATERIAL

LOW CARBON STEEL

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Mn - 0.90% Max S - 0.05% Max

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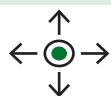
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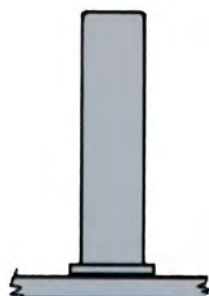
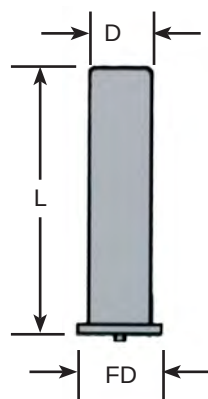


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FLANGED NO THREAD CDFNT

STUD SPECIFICATIONS



D	FD	MIN L
$\frac{3}{32}$	.143	.250
.115	.171	.250
$\frac{1}{8}$	.156	.250
.141	.195	.250
$\frac{5}{32}$	.221	.250
.161	.221	.250
$\frac{3}{16}$	.221	.250
.215	.281	.312
$\frac{1}{4}$	.281	.312
.273	.343	.312
$\frac{5}{16}$	.343	.500



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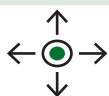
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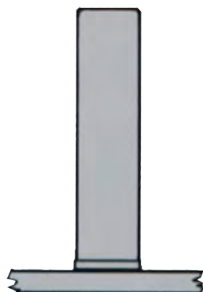
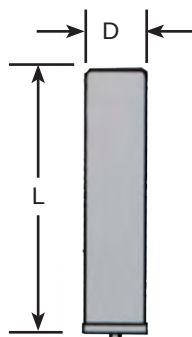


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NO FLANGE NO THREAD CDNFNT

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D	MIN L
$\frac{3}{32}$	.250
.115	.250
$\frac{1}{8}$	.250
.141	.250
$\frac{5}{32}$	.250
.161	.250
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.215	.312
$\frac{1}{4}$	.312
.273	.312
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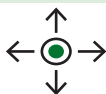
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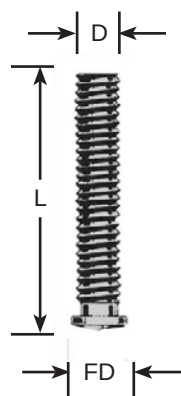
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DRAWN ARC/STORED ARC CDDA

STUD SPECIFICATIONS



D	FD	MIN L
4-40	.143	.250
6-32	.169	.250
8-32	.195	.250
10-32	.221	.250
10-24	.221	.250
1/4-20	.281	.375
5/16-18	.375	.500



MATERIAL

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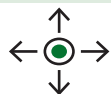
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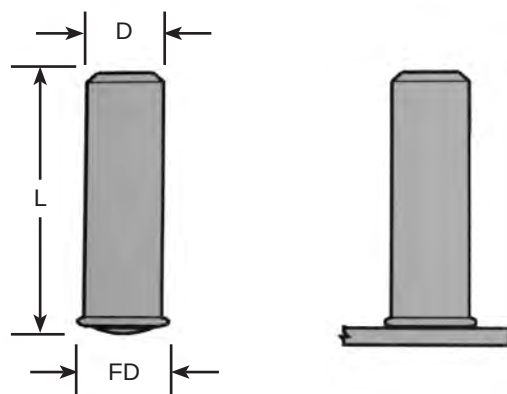
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DRAWN ARC NO THREAD CDDANT

STUD SPECIFICATIONS



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4-40	.143	.250
6-32	.169	.250
8-32	.195	.250
10-32	.221	.250
10-24	.221	.250
1/4-20	.281	.375
5/16-18	.315	.500



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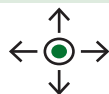
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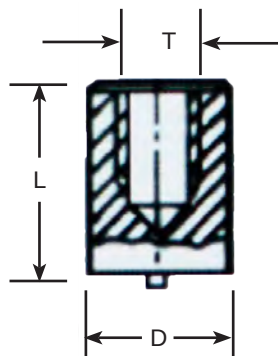
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TAPPED NO FLANGE TAP

STUD SPECIFICATIONS



T	D	L
8-32 X Maximum Depth	$\frac{5}{16}$ - .3125	$\frac{19}{64}$ - .2968
6-32 X Maximum Depth	$\frac{5}{16}$ - .3125	$\frac{19}{64}$ - .2968

Other tap studs are available by special order.



MATERIAL

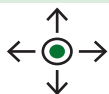
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Elongation: 20% (in 2 inches)



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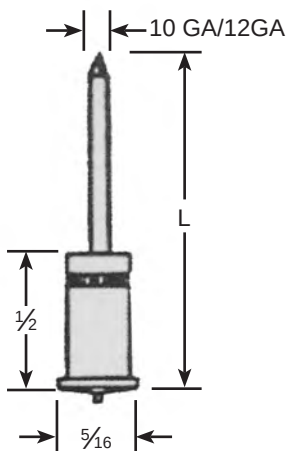


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BI-METALLIC^{BM}

PIN BI-METALLIC STUD (BMWWP)



MATERIAL

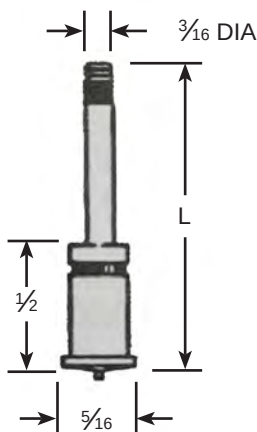
Pin: 10 gauge or 12 gauge stainless steel
Base: Aluminum (5000) series



WASHERS

Self-locking washers are available.

ANNULAR RING STUD (BMAR)



MATERIAL

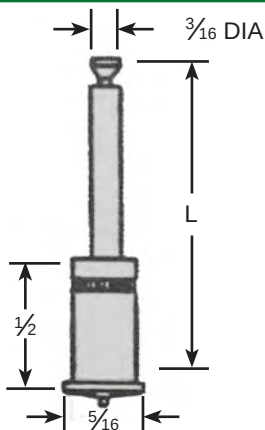
Pin: Stainless steel
Base: Aluminum (5000) series



CAP

The cap for use with this stud is the annular ring cap or sometimes called mushroom caps.

NOTCHED END STUD (BMNE)



MATERIAL

Pin: 10 gauge or 12 gauge stainless steel
Base: Aluminum (5000) series



WASHERS

The washer for this stud is the key hole slotted washer.



HANLON STUD WELDING

1157 PAGNI DRIVE

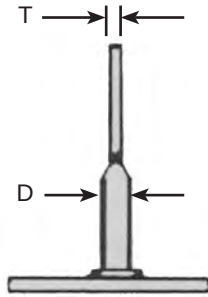
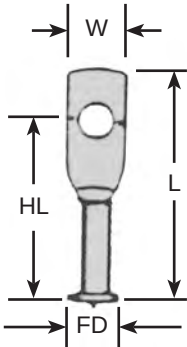
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ACOUSTICAL HANGER_{CDFAH}

STUD SPECIFICATIONS



D	L	FD	HD	HL	W	T
.168	1- $\frac{1}{8}$	.250	.187	$\frac{7}{8}$	$\frac{5}{16}$	$\frac{1}{16}$
.214	1- $\frac{1}{8}$	.312	.187	$\frac{7}{8}$	$\frac{3}{8}$	$\frac{5}{64}$



MATERIAL

LOW CARBON STEEL

C - 0.23% Max P - 0.04% Max
Mn - 0.90% Max S - 0.05% Max

STAINLESS STEEL

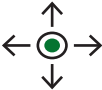
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MECHANICAL PROPERTIES

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Tensile: 85,000 psi (min)
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PLATING & ANNEALING

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MATERIAL

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Other alloys are available.



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WIRE TIE DOWN

STUD SPECIFICATIONS



	INCH	MM
Height	.390	.9.90
Length	.875	22.22
Width	.625	15.87
Slot Height	.090	2.29
Slot Width	.3125	8.25

APPLICATION: Wire Tie Down Studs are designed specifically for quick and rugged wire security, providing a permanent, worry-free wire maintenance system. A reliable alternative to traditional screw and adhesive fasteners. Because Wire Tie Down Studs are stud welded into place, eliminating the need for drilling holes, they provide a secure installation that will not break, loosen, or weaken over time. With a pull that exceeds the capability of a typical 3/8" nylon strap, wire tie down studs are ideally suited for any wire assembly need from heavy duty construction equipment to wire management in industrial control boxes and telephone junction boxes.



MATERIAL

Stainless Steel
Equivalent of a #10 fastener
Available in black or white



QUICK

Welds into place within
milliseconds



WELD

Installed with traditional CD stud
welding equipment.



CABLE DIA

Holds wire bundles up to 1" in
diameter



MECHANICAL PROPERTIES

Nylon 6/6 properties, smoke generation
and temperature index available upon
request.



NO DRILLING

No need to drill holes because
they are welded into place.



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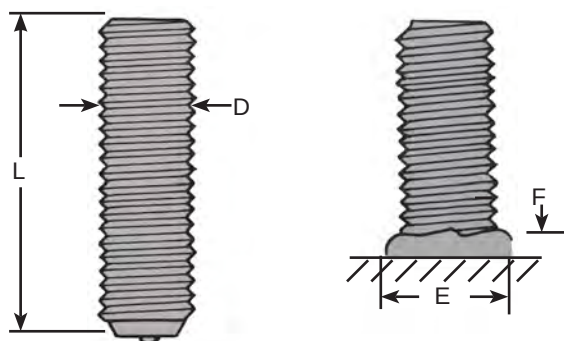
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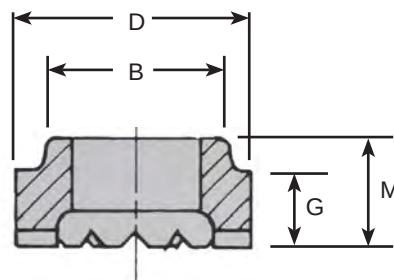


FULL THREAD_{ARCFT}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	MIN L	E	F	D	B	G	M
10-24	$\frac{5}{8}$	$\frac{9}{32}$	$\frac{3}{32}$	.390	.305	.234	.390
$\frac{1}{4}$ -20	$\frac{43}{64}$	$\frac{23}{64}$	$\frac{7}{64}$	.454	.380	.234	.390
$\frac{5}{16}$ -18	$\frac{27}{32}$	$\frac{7}{16}$	$\frac{7}{64}$	.578	.445	.281	.437
$\frac{3}{8}$ -16	$\frac{15}{16}$	$\frac{1}{2}$	$\frac{1}{8}$	.637	.505	.281	.437
$\frac{7}{16}$ -14	$1-\frac{1}{32}$	$\frac{19}{32}$	$\frac{5}{32}$	.703	.585	.234	.422
$\frac{1}{2}$ -13	$1-\frac{13}{64}$	$\frac{11}{16}$	$\frac{3}{16}$	.795	.650	.281	.469
$\frac{5}{8}$ -11	$1-\frac{7}{16}$	$\frac{7}{8}$	$\frac{1}{4}$	1.030	.785	.328	.516
$\frac{3}{4}$ -10	$1-\frac{39}{64}$	$1-\frac{1}{16}$	$\frac{5}{16}$	1.215	1.030	.469	.656
$\frac{7}{8}$ -9	$1-\frac{51}{64}$	$1-\frac{1}{8}$	$\frac{11}{32}$	1.408	1.210	.545	.732
1-8	$1-\frac{17}{32}$	$1-\frac{3}{8}$	$\frac{3}{8}$	1.615	1.406	.633	.820

DIAMETER: Available in diameters from $\frac{3}{16}$ " through 1".

LENGTH: Available in required lengths above the recommended standard minimums (L). Length is before weld. Stud diameters $\frac{1}{2}$ " and smaller will be approximately $\frac{1}{8}$ " shorter after welding. Diameters of $\frac{5}{8}$ " and larger will be approximately $\frac{3}{16}$ " shorter after welding.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 55,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is the most commonly used.

Other grades of stainless steel (except Type 303) are available when required.

THREAD: Standard thread is UNC2A. Maximum standard thread length is $3-\frac{7}{8}$ ".

FERRULES: All orders for studs include required ferrules.

PLATING: Plated studs are available in cadmium, zinc, and nickel, ASTM specifications A165 Type TS, A164 Type RS, and B-456. The welding end of the stud is not plated to prevent weld contamination. Information on other plating materials are available upon request.

ANNEALING: Stud ductility can be increased by annealing to 75 Rockwell B for low carbon steel and 90 Rockwell B for stainless steel.

FLUX: Studs $\frac{1}{4}$ " and over are solid fluxed.



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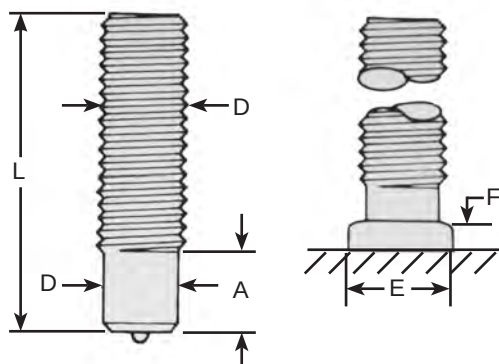
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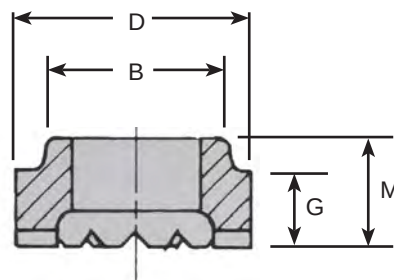
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PARTIAL THREAD^{ARCPT}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	MIN L	C	A	E	F	D	B	G	M
1/4-20	5/8	.215	3/8	5/16	3/32	.455	.385	.125	.250
5/16-18	43/64	.275	3/8	13/32	7/64	.535	.445	.125	.250
3/8-16	27/32	.330	3/8	15/32	7/64	.590	.505	.139	.264
7/16-14	15/16	.387	7/16	17/32	1/8	.675	.585	.173	.329
1/2-13	1-1/32	.448	1/2	19/32	5/32	.740	.650	.206	.362
5/8-11	1-13/64	.562	5/8	3/4	3/16	.910	.785	.277	.433
3/4-10	1-7/16	.680	51/64	59/64	1/4	1.150	1.030	.339	.526
7/8-9	1-39/64	.798	55/64	1-3/64	5/16	1.330	1.210	.406	.593
1-8	1-51/64	.915	59/64	1-3/16	11/32	1.526	1.406	.474	.661

PARTIAL THREAD: The studs have a pitch diameter weld base.

DIAMETER: Available in diameters from 1/4" through 1".

LENGTH: Available in required lengths above the recommended standard minimums (L). Length is before weld. Stud diameters 1/2" and smaller will be approximately 1/8" shorter after welding. Diameters of 5/8" and larger will be approximately 3/16" shorter after welding.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 55,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is the most commonly used.

Other grades of stainless steel (except Type 303) are available when required.

THREAD: Standard thread is UNC2A. Maximum standard thread length is 3-7/8".

FERRULES: All orders for studs include required ferrules.

PLATING: Plated studs are available in cadmium, zinc, and nickel, ASTM specifications A165 Type TS, A164 Type RS, and B-456. The welding end of the stud is not plated to prevent weld contamination. Information on other plating materials are available upon request.

ANNEALING: Stud ductility can be increased by annealing to 75 Rockwell B for low carbon steel and 90 Rockwell B for stainless steel.

FLUX: Studs 1/4" and over are solid fluxed.



HANLON STUD WELDING

1157 PAGNI DRIVE

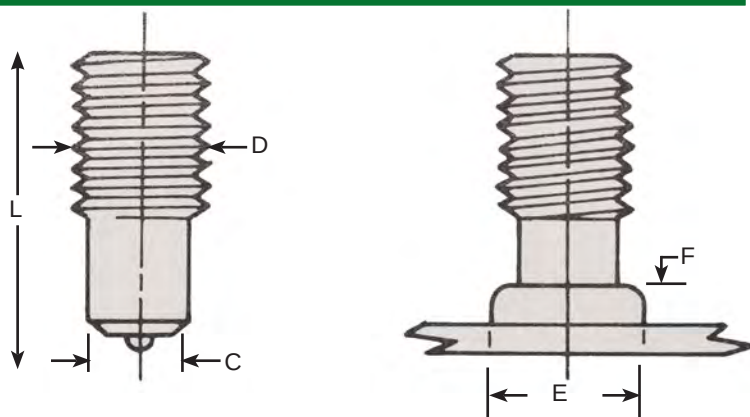
ELK GROVE VILLAGE, IL 60007

PHONE: 847-228-1990 • Toll Free: 1-800-HANLONS (426-5667) • FAX: 847.228.1995

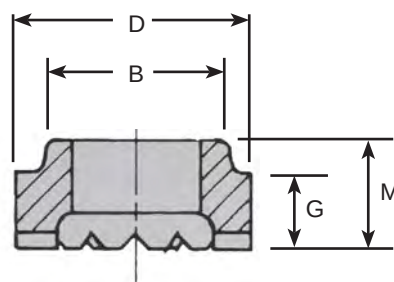
www.hanlonstudwelding.com

REDUCED BASE_{RB}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	MIN L	C	A	E	F	D	B	G	M
1/4-20	3/4	.187	3/16	5/16	3/32	.455	.385	.125	.250
5/16-18	3/4	.250	1/4	13/32	7/64	.535	.445	.125	.250
3/8-16	3/4	.312	3/8	15/32	7/64	.590	.505	.139	.264
1/2-13	1	.375	7/16	17/32	1/8	.675	.585	.173	.329
5/8-11	1-1/4	.500	1/2	19/32	5/32	.740	.650	.206	.362
3/4-10	1-1/2	.625	5/8	3/4	3/16	.910	.785	.277	.433
7/8-9	1-1/2	.750	3/4	59/64	1/4	1.150	1.030	.339	.526
1-8	1-3/4	.875	7/8	1-3/64	5/16	1.330	1.210	.406	.593

REDUCED BASED STUDS: The studs have a reduced weld base [C].

DIAMETER: Available in diameters from 1/4" through 1".

LENGTH: Available in required lengths above the recommended standard minimums [L]. Length is before weld. Stud diameters 1/2" and smaller will be approximately 1/8" shorter after welding. Diameters of 5/8" and larger will be approximately 3/16" shorter after welding.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 55,000 psi min.

Reduction in Area: 50% min.

THREAD: Standard thread is UNC2A. Maximum standard thread length is 3-7/8".

FERRULES: All orders for studs include required ferrules.

PLATING: Plated studs are available in cadmium, zinc, and nickel, ASTM specifications A165 Type TS, A164 Type RS, and B-456. The welding end of the stud is not plated to prevent weld contamination. Information on other plating materials are available upon request.

ANNEALING: Stud ductility can be increased by annealing to 75 Rockwell B for low carbon steel and 90 Rockwell B for stainless steel.

FLUX: Studs 1/4" and over are solid fluxed.



HANLON STUD WELDING

1157 PAGNI DRIVE

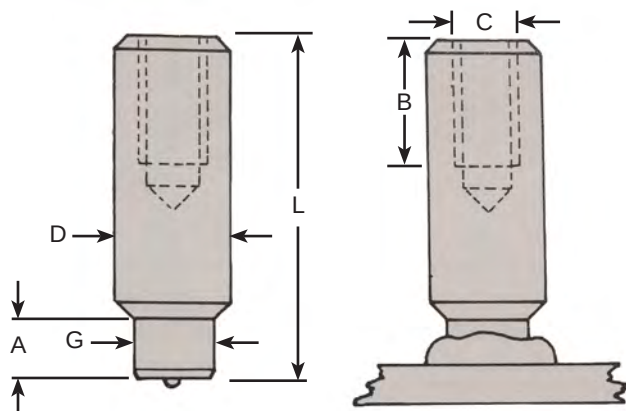
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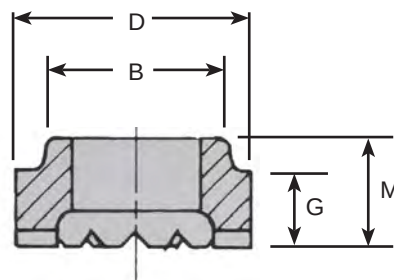
www.hanlonstudwelding.com

TAPPED REDUCED BASE^{TR}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	G	A	MIN L	TAP		D	B	G	M
				C	B				
1/2-13	.375	.437	2	3/8-16	9/16	.675	.585	.125	.250
5/8-11	.437	.500	2	1/2-13	3/4	.740	.650	.125	.281
3/4-10	.500	.687	2	5/8-11	15/16	.875	.785	.174	.328
1-8	.500	.687	2-1/2	3/4-10	1-1/8	1.330	.921	.125	.312

TAPPED REDUCED BASED STUDS: Internally threaded studs with a reduced weld base.

DIAMETER: Available in outside diameters from 1/2" through 7/8" and in internal thread diameters from 3/8-16 through 3/4-10.

LENGTH: Available in required lengths above the recommended standard minimums (L). Length is before weld. Stud diameters 1/2" and smaller will be approximately 1/8" shorter after welding. Diameters of 5/8" and larger will be approximately 3/16" shorter after welding.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 55,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

THREAD: Standard thread is UNC2A. Maximum standard internal thread engagement is 1-1/2 times tap diameter.

FERRULES: All orders for studs include required ferrules.

PLATING: Plated studs are available in cadmium, zinc, and nickel, ASTM specifications A165 Type TS, A164 Type RS, and B-456. The welding end of the stud is not plated to prevent weld contamination. Information on other plating materials are available upon request.

FLUX: Studs are solid fluxed.



HANLON STUD WELDING

1157 PAGNI DRIVE

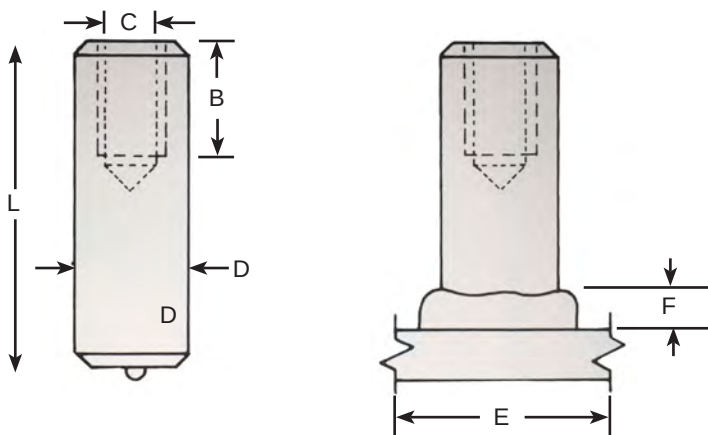
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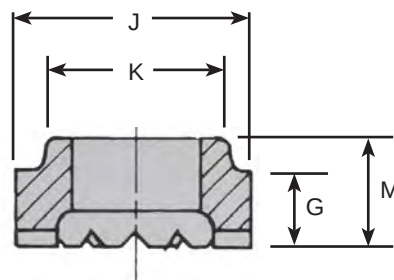
www.hanlonstudwelding.com

TAPPED_{TF}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



TAP		MINIMUM LENGTH			FILLET		FERRULE			
C	B	D= 1/2 MAX	D= 5/8 TO 3/4 MAX	D= 7/8 OVER	E	F	J	K	G	M
8-32	1/4	9/16	5/16	11/16	23/64	7/64	.455	.380	.234	.390
10-24	9/32	21/32	23/32	25/32	7/16	7/64	.578	.445	.234	.390
1/4-20	3/8	13/16	7/8	15/16	1/2	1/8	.640	.505	.245	.390
5/16-18	15/32	29/32	31/32	1-1/32	19/32	9/64	.703	.585	.234	.422
3/8-16	9/16	1-1/32	1-7/64	1-5/32	11/16	5/32	.795	.650	.250	.438
7/16-14	21/32		1-9/32	1-11/32	7/8	3/16	1.030	.785	.328	.516
1/2-13	3/4		1-3/8	1-7/16	1-1/16	1/4	1.215	1.030	.469	.656
5/8-11	15/16		1-5/8	1-11/16	1-1/8	5/16	1.408	1.210	.545	.732
3/4-10	1-1/8			2	1-3/8	3/8	1.610	1.406	.633	.820

DIAMETER: Available in outside diameters from 1/4" through 1" and internal thread diameters from #8-32 through 3/4-10.

LENGTH: Available in required lengths above the recommended standard minimums (L). Length is before weld. Stud diameters 1/2" and smaller will be approximately 1/8" shorter after welding. Diameters of 5/8" and larger will be approximately 3/16" shorter after welding.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 55,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is the most commonly used.

Other grades of stainless steel (except Type 303) are available when required.

THREAD: Standard thread is UNC2A. Maximum standard tap depth equals 1-1/2 times tap diameter.

FERRULES: All orders for studs include required ferrules.

PLATING: Plated studs are available in cadmium, zinc, and nickel, ASTM specifications A165 Type TS, A164 Type RS, and B-456. The welding end of the stud is not plated to prevent weld contamination. Information on other plating materials are available upon request.

ANNEALING: Stud ductility can be increased by annealing to 75 Rockwell B for low carbon steel and 90 Rockwell B for stainless steel.

FLUX: Studs 1/4" and over are solid fluxed.



HANLON STUD WELDING

1157 PAGNI DRIVE

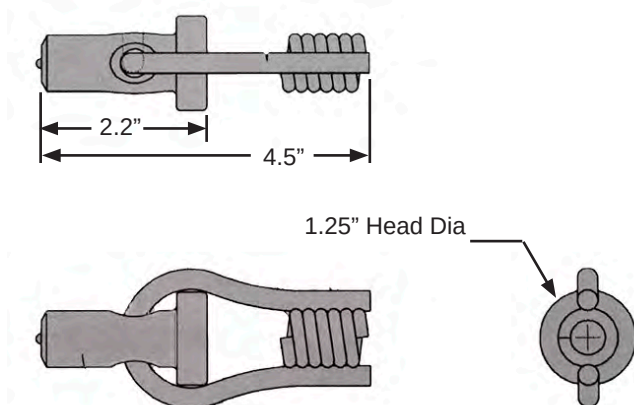
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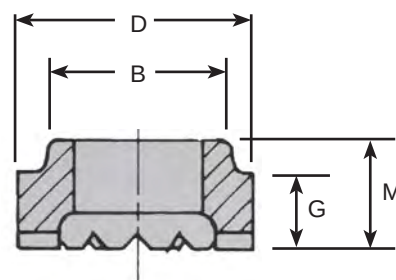
www.hanlonstudwelding.com

STEEL DOG COIL STUD_{SD}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	B	G	M
1.215	1.030	.469	.656

STEEL DOG COIL STUDS: Provide low-cost attachment points for coil hardware-based form ties onto steel structures. Typical application is for one-sided forming against soldier piles or sheet piling.

DIAMETER: Available in $\frac{3}{4}$ " diameter.

LENGTH: Overall length is 4.5" Length is before weld.

MATERIAL: Stud is ASTM A108, C1010-1020. Swivel loop wire is AISI C1035.

MIN BASE METAL THICKNESS: $\frac{3}{16}$ ".

FINISH: None.

MAX SAFE WORKING LOAD: 4500 Lbs. Actual safe working load will depend on the quality of weld to substrate.

INSTALLATION: Welded with standard stud welding equipment capable of welding $\frac{3}{4}$ " shear connector studs. Use a split foot as the stud is shorter than most shear connector studs.

FERRULES: All orders for studs include required vertical ferrules.

ROD: Accepts standard $\frac{1}{2}$ " coil rod or $\frac{1}{2}$ "-13 NC rod.

BOX QUANTITY: 50.

BOX WEIGHT: 32 Lbs.



HANLON STUD WELDING

1157 PAGNI DRIVE

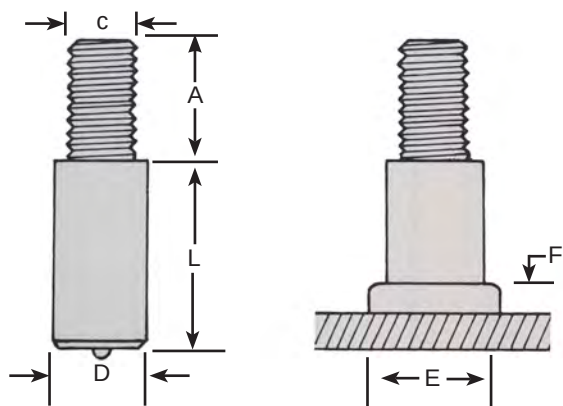
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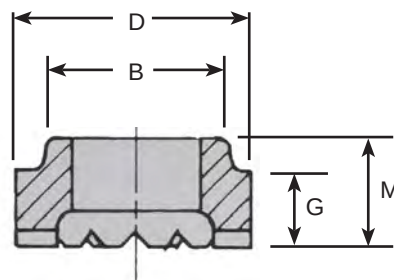
www.hanlonstudwelding.com

SHOULDER_{SB}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	MIN L	C	A	E	F	D	B	G	M
1/4	5/26	8-32	13/32	23/64	7/64	.455	.380	.234	.390
5/16	11/32	10-24	15/32	7/16	7/64	.578	.445	.234	.390
3/8	3/8	1/4-20	5/8	1/2	1/8	.640	.505	.234	.390
7/16	7/16	5/16-18	25/32	19/32	9/64	.703	.585	.234	.422
1/2	1/2	3/8-16	15/16	11/16	5/32	.795	.650	.250	.438
5/8	5/8	1/2-13	1-1/4	7/8	3/16	1.030	.785	.328	.516
3/4	5/8	5/8-11	1-9/16	1-1/16	1/4	1.215	1.030	.469	.656
7/8	3/4	3/4-10	1-7/8	1-1/8	5/16	1.408	1.210	.545	.732

SHOULDER STUDS: Threaded studs with a weld base diameter greater than the thread diameter.

DIAMETER: Available in diameters from 1/4" through 3/4", in thread diameters to maximum [C].

LENGTH: Available in required lengths above the recommended standard minimums [L]. The minimum overall length is determined by a combination of L and the required A. The length is before weld. Stud diameters 1/2" and smaller will be approximately 1/8" shorter after welding. Diameters of 5/8" and larger will be approximately 3/16" shorter after welding.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 55,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

THREAD: Standard thread is UNC2A.

FERRULES: All orders for studs include required ferrules.

PLATING: Plated studs are available in cadmium, zinc, and nickel, ASTM specifications A165 Type TS, A164 Type RS, and B-456. The welding end of the stud is not plated to prevent weld contamination. Information on other plating materials are available upon request.

ANNEALING: Stud ductility can be increased by annealing to 75 Rockwell B for low carbon steel and 90 Rockwell B for stainless steel.

FLUX: Studs 1/4" and over are solid fluxed.



HANLON STUD WELDING

1157 PAGNI DRIVE

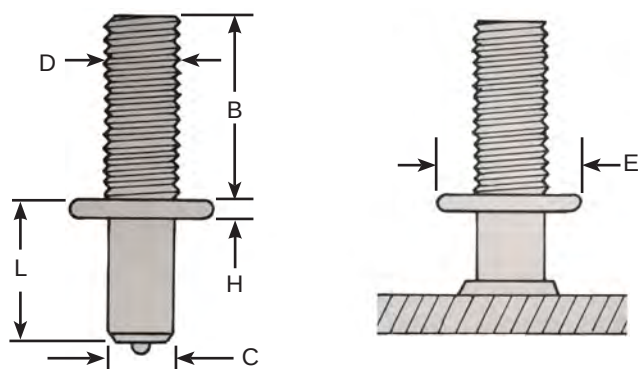
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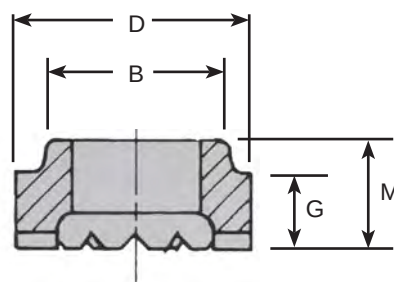
www.hanlonstudwelding.com

COLLAR_{CS}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	STD B	MIN L	C	E	H	D	B	G	M
1/4-20	5/8	3/8	.215	1/2	3/32	.875	.785	.125	.250
5/16-18	5/8	3/8	.275	5/8	3/32	.875	.785	.125	.250
3/8-16	5/8	3/8	.330	5/8	3/32	.875	.785	.125	.250
1/2-13	3/4	1/2	.448	3/4	3/32	1.030	.921	.125	.281

COLLAR STUDS: Threaded studs with a collar separating the weld base and the thread.

DIAMETER: Available in diameters from 1/4" through 1/2".

LENGTH: Available in required lengths above the recommended standard minimums (L). Length is before weld. Stud diameters 1/2" and smaller will be approximately 1/8" shorter after welding.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 55,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is the most commonly used.

Other grades of stainless steel (except Type 303) are available when required.

THREAD: Standard thread is UNC2A.

FERRULES: All orders for studs include required ferrules.

PLATING: Plated studs are available in cadmium, zinc, and nickel, ASTM specifications A165 Type TS, A164 Type RS, and B-456. The welding end of the stud is not plated to prevent weld contamination. Information on other plating materials are available upon request.

ANNEALING: Stud ductility can be increased by annealing to 75 Rockwell B for low carbon steel and 90 Rockwell B for stainless steel.

FLUX: Standard collar studs are solid fluxed.

**HANLON STUD WELDING**

1157 PAGNI DRIVE

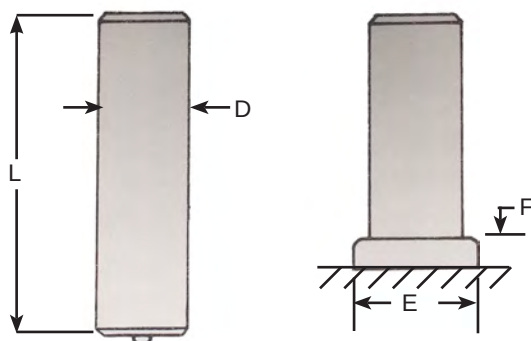
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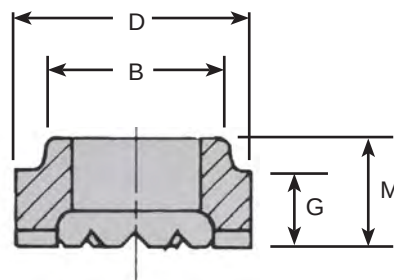
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NO THREAD_{NT}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	MIN L	E	F	D	B	G	M
$\frac{3}{16}$	$\frac{25}{32}$	$\frac{9}{32}$	$\frac{3}{32}$	.390	.305	.234	.390
$\frac{1}{4}$	$\frac{25}{32}$	$\frac{23}{64}$	$\frac{7}{64}$	.454	.380	.234	.390
$\frac{5}{16}$	$\frac{25}{32}$	$\frac{7}{16}$	$\frac{7}{64}$	.578	.445	.281	.437
$\frac{3}{8}$	$\frac{25}{32}$	$\frac{1}{2}$	$\frac{1}{8}$	.637	.505	.281	.437
$\frac{7}{16}$	$\frac{25}{32}$	$\frac{19}{32}$	$\frac{5}{32}$	.703	.585	.234	.422
$\frac{1}{2}$	$\frac{13}{16}$	$\frac{11}{16}$	$\frac{3}{16}$	.795	.650	.281	.469
$\frac{5}{8}$	$\frac{31}{32}$	$\frac{7}{8}$	$\frac{1}{4}$	1.030	.785	.328	.516
$\frac{3}{4}$	$1-\frac{15}{64}$	$1-\frac{1}{16}$	$\frac{5}{16}$	1.215	1.030	.469	.656
$\frac{7}{8}$	$1-\frac{1}{2}$	$1-\frac{1}{8}$	$\frac{11}{32}$	1.408	1.210	.545	.732
1	$1-\frac{41}{64}$	$1-\frac{3}{8}$	$\frac{3}{8}$	1.615	1.406	.633	.820

DIAMETER: Available in diameters from $\frac{3}{16}$ " through 1".

LENGTH: Available in required lengths above the recommended standard minimums (L). Length is before weld. Stud diameters $\frac{1}{2}$ " and smaller will be approximately $\frac{1}{8}$ " shorter after welding. Diameters of $\frac{5}{8}$ " and larger will be approximately $\frac{3}{16}$ " shorter after welding.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 55,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is the most commonly used.

Other grades of stainless steel (except Type 303) are available when required.

FERRULES: All orders for studs include required ferrules.

PLATING: Plated studs are available in cadmium, zinc, and nickel, ASTM specifications A165 Type TS, A164 Type RS, and B-456. The welding end of the stud is not plated to prevent weld contamination. Information on other plating materials are available upon request.

ANNEALING: Stud ductility can be increased by annealing to 75 Rockwell B for low carbon steel and 90 Rockwell B for stainless steel.

FLUX: Studs $\frac{1}{4}$ " and over are solid fluxed.



HANLON STUD WELDING

1157 PAGNI DRIVE

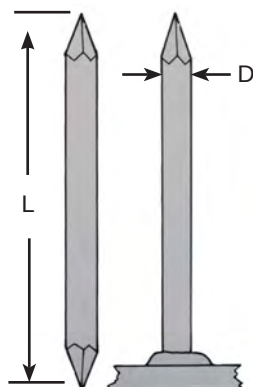
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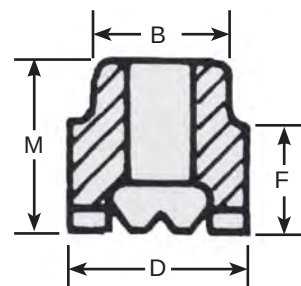
www.hanlonstudwelding.com

INSULATION P2

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	MIN L	D	B	F	M
.134 (10 Gauge)	$\frac{3}{4}$	.390	.305	.234	.390

INSULATION STUDS: Double pointed studs used to secure all types of insulating materials.

LENGTH: Available in required lengths above the recommended standard minimums [L]. Length is before weld. Stud will be approximately $\frac{1}{8}$ " shorter after welding.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 55,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is the most commonly used.

Other grades of stainless steel (except Type 303) are available when required.

FERRULES: All orders for studs include required ferrules.

ANNEALING: Stud ductility can be increased by annealing to 75 Rockwell B for low carbon steel and 90 Rockwell B for stainless steel.

SPEED CLIPS: Available for 10 gauge studs and are ordered separately.



HANLON STUD WELDING

1157 PAGNI DRIVE

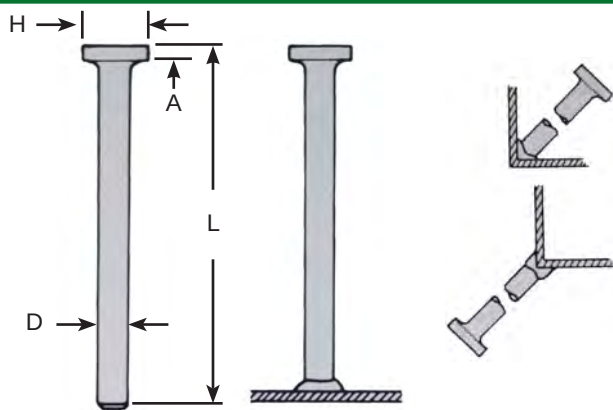
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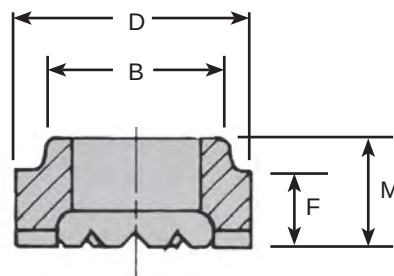
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HEADED CONCRETE ANCHOR_{CA}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



Vertical and Inside/Outside Angle Ferrules also available based on your welding application.

D	A	H	D	B	F	M
1/4	.187	.500	.454	.380	.234	.390
3/8	.281	.750	.640	.505	.234	.390
1/2	.312	1.000	.795	.650	.250	.438
5/8	.312	1.250	1.030	.785	.328	.516

WEIGHTS AND PACKAGING FOR STANDARD LENGTHS

DESC	POUNDS M PIECES	PIECES BOX	POUNDS BOX	DESC	POUNDS M PIECES	PIECES BOX	PIECES BOX
1/4 x 1-1/8	23	3000	70	1/2 x 3-1/8	225	325	94
1/4 x 2-11/16	43	1500	65	1/2 x 3-5/8	247	300	125
1/4 x 4-1/8	65	1000	65	1/2 x 4-1/8	280	250	85
3/8 x 1-3/8	67	1000	67	1/2 x 5-5/16	340	200	86
3/8 x 1-5/8	73	1000	73	1/2 x 6-1/8	393	150	79
3/8 x 2-1/8	91	1000	91	1/2 x 8-1/8	504	200	63
3/8 x 2-11/16	106	700	74	5/8 x 2-11/16	308	250	95
3/8 x 3-1/8	122	600	73	5/8 x 4-3/16	440	150	90
3/8 x 4-1/8	148	400	59	5/8 x 5-3/16	520	125	66
3/8 x 6-1/8	216	250	54	5/8 x 6-3/16	620	100	80
1/2 x 2-1/8	168	500	84	5/8 x 6-9/16	660	100	
1/2 x 2-5/8	198	400	79	5/8 x 8-3/16	784	125	

HEADED ANCHOR STUDS: Designed for welding to flat surfaces or welding in the fillet or to the heel of angles. When ordering specify if studs are to be welded to flat surfaces or in fillet or to heel of angle.

DIAMETER: Available in diameters from 1/4" through 5/8".

LENGTH Length is before weld. Stud diameters 1/2" and smaller will be approximately 1/8" shorter after welding. 5/8" and smaller will be approximately 3/16" shorter after weld. Maximum length available for cold headed product is 8-3/16". Prices on hot formed studs over 8-3/16" available on request.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 60,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is the most commonly used. Other grades of stainless steel (except Type 303) are available when required.

FERRULES: All orders for studs include required ferrules.

FLUX: Studs are solid fluxed.



HANLON STUD WELDING

1157 PAGNI DRIVE

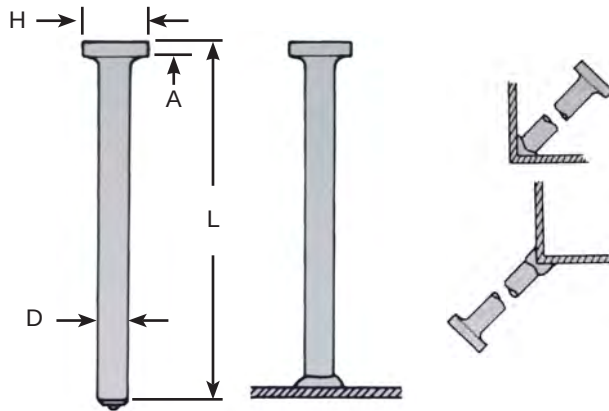
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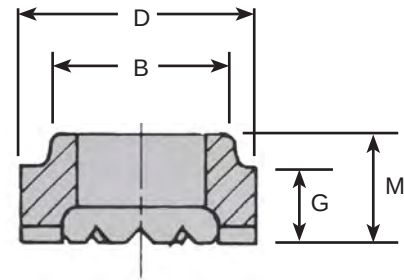
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SHEAR CONNECTOR_{SC}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	A	H	TYPE	D	B	G	M
$\frac{3}{4}$	$\frac{3}{8}$	$1\frac{1}{4}$	FLAT	1.215	1.030	.469	.656
			WELD THRU DECK	1.338	1.210	.400	.587
$\frac{7}{8}$	$\frac{3}{8}$	$1\frac{3}{4}$	FLAT	1.408	1.210	.545	.732

WEIGHTS AND PACKAGING FOR STANDARD LENGTHS

DESC	POUNDS M PIECES	PIECES BOX	POUNDS BOX	DESC	POUNDS M PIECES	PIECES BOX	POUNDS BOX
$\frac{3}{4} \times 3\frac{3}{16}$	480	125	60	$\frac{3}{4} \times 6\frac{3}{16}$	850	60	51
$\frac{3}{4} \times 3\frac{7}{8}$	513	125	64	$\frac{3}{4} \times 7\frac{3}{16}$	1020	60	61
$\frac{3}{4} \times 3\frac{7}{8}$	568	100	57	$\frac{3}{4} \times 8\frac{3}{16}$	1112	50	56
$\frac{3}{4} \times 4\frac{3}{16}$	600	100	60	$\frac{7}{8} \times 3\frac{11}{16}$	726	100	73
$\frac{3}{4} \times 4\frac{3}{8}$	625	100	63	$\frac{7}{8} \times 4\frac{3}{16}$	810	100	81
$\frac{3}{4} \times 4\frac{7}{8}$	707	75	53	$\frac{7}{8} \times 5\frac{3}{16}$	1000	60	60
$\frac{3}{4} \times 5\frac{3}{16}$	740	75	56	$\frac{7}{8} \times 6\frac{3}{16}$	1140	50	57
$\frac{3}{4} \times 5\frac{3}{8}$	775	75	58	$\frac{7}{8} \times 7\frac{3}{16}$	1300	100	130
$\frac{3}{4} \times 5\frac{7}{8}$	800	75	60	$\frac{7}{8} \times 8\frac{3}{16}$	1510	100	151

HEADED ANCHOR STUDS: Designed to effectively tie the concrete to the steel beams and to resist shear loadings between the concrete slab and steel beam in composite construction.

DIAMETER: Available in diameters from $\frac{3}{4}$ " through $\frac{7}{8}$ ".

LENGTH: Length is before weld. Studs will be approximately $\frac{1}{16}$ " shorter after weld. Lengths for shear connector studs are generally set by governing specifications.

AWS: All shear connector studs meet AWS specifications. Test reports available on request.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 60,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is the most commonly used.

Other grades of stainless steel (except Type 303) are available when required.

FERRULES: All orders for studs include required ferrules.

FLUX: Studs are solid fluxed.



HANLON STUD WELDING

1157 PAGNI DRIVE

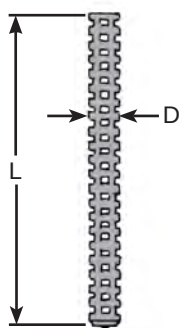
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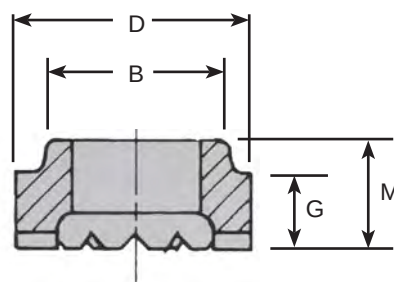
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DEFORMED ANCHOR_{DA}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



DIAMETER X LENGTH	WEIGHT PER 1000	D	B	G	M
$\frac{3}{8} \times 6\text{-}\frac{1}{8}$	180	.637	.505	.281	.437
$\frac{3}{8} \times 10\text{-}\frac{1}{8}$	300				
$\frac{3}{8} \times 12\text{-}\frac{1}{8}$	360				
$\frac{3}{8} \times 18\text{-}\frac{1}{8}$	520				
$\frac{3}{8} \times 24\text{-}\frac{1}{8}$	720				
$\frac{3}{8} \times 36\text{-}\frac{1}{8}$	1035	.795	.650	.281	.469
$\frac{1}{2} \times 5\text{-}\frac{1}{8}$	269				
$\frac{1}{2} \times 10\text{-}\frac{1}{8}$	537				
$\frac{1}{2} \times 12\text{-}\frac{1}{8}$	640				
$\frac{1}{2} \times 18\text{-}\frac{1}{8}$	960				
$\frac{1}{2} \times 24\text{-}\frac{1}{8}$	1280	1.030	.785	.328	.516
$\frac{1}{2} \times 30\text{-}\frac{1}{8}$	1650				
$\frac{1}{2} \times 36\text{-}\frac{1}{8}$	1920				
$\frac{5}{8} \times 12\text{-}\frac{3}{16}$	1000				
$\frac{5}{8} \times 18\text{-}\frac{3}{16}$	1500				
$\frac{5}{8} \times 24\text{-}\frac{3}{16}$	2000	1.215	1.030	.469	.656
$\frac{5}{8} \times 30\text{-}\frac{3}{16}$	2500				
$\frac{5}{8} \times 36\text{-}\frac{3}{16}$	3000				
$\frac{3}{4} \times 12\text{-}\frac{3}{16}$	1485				
$\frac{3}{4} \times 18\text{-}\frac{3}{16}$	2210				
$\frac{3}{4} \times 24\text{-}\frac{3}{16}$	2880	3625	4400		
$\frac{3}{4} \times 30\text{-}\frac{3}{16}$	3625				
$\frac{3}{4} \times 30\text{-}\frac{3}{16}$	4400				

DIAMETER: Available in diameters from $\frac{3}{8}$ " through $\frac{3}{4}$ ".

LENGTH: Length is before weld. Stud diameters $\frac{1}{2}$ " and smaller will be approximately $\frac{1}{8}$ " shorter after welding. Diameters of $\frac{5}{8}$ " and larger will be approximately $\frac{3}{16}$ " shorter after welding. Any length of deformed anchors is available upon request.

MILD STEEL: Low carbon steel. ASTM: A-496

STAINLESS STEEL: Deformed Bar Anchors are available in 300 series (except 303) stainless steel.

FERRULES: All orders for studs include required ferrules.

WEIGHTS: Are approximate and will vary with different heats of steel.



HANLON STUD WELDING

1157 PAGNI DRIVE

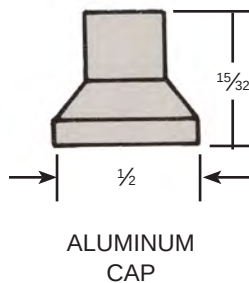
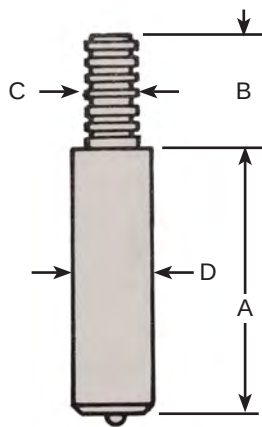
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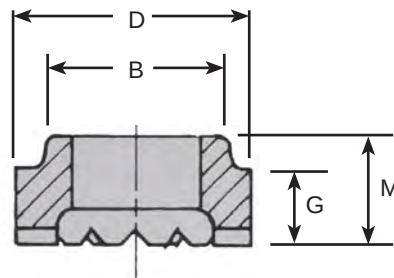
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ANNULAR RING SHOULDER_{AR}

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	MIN A	C	STD B	D	B	G	M
$\frac{5}{16}$	$\frac{11}{16}$	$\frac{3}{16}$	$\frac{3}{16}$	.578	.234`	.390	.445

ANNULAR RING SHOULDER STUDS: Used to fasten corrugated metal roofing and siding material to structural frames.

LENGTH (A): Length is before weld. Stud will be approximately $\frac{1}{8}$ " shorter after welding.

LENGTH (B): Available in required lengths above the standard minimum.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 55,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is recommended for use with aluminum sheets. Can be used with galvanized sheets at the customer's option.

FERRULES: All orders for studs include required ferrules.

PLATING: Cadmium to ASTM specification A165. TS is recommended for use with corrugated galvanized sheets.

ANNEALING: Annular Ring Studs are not annealed.

FLUX: Studs are solid fluxed.

ALUMINUM CAPS: Are designed to fit over stud extension so that the subsequent setting of the cap provides a tight weatherproof seal. Aluminum caps are ordered separately.



HANLON STUD WELDING

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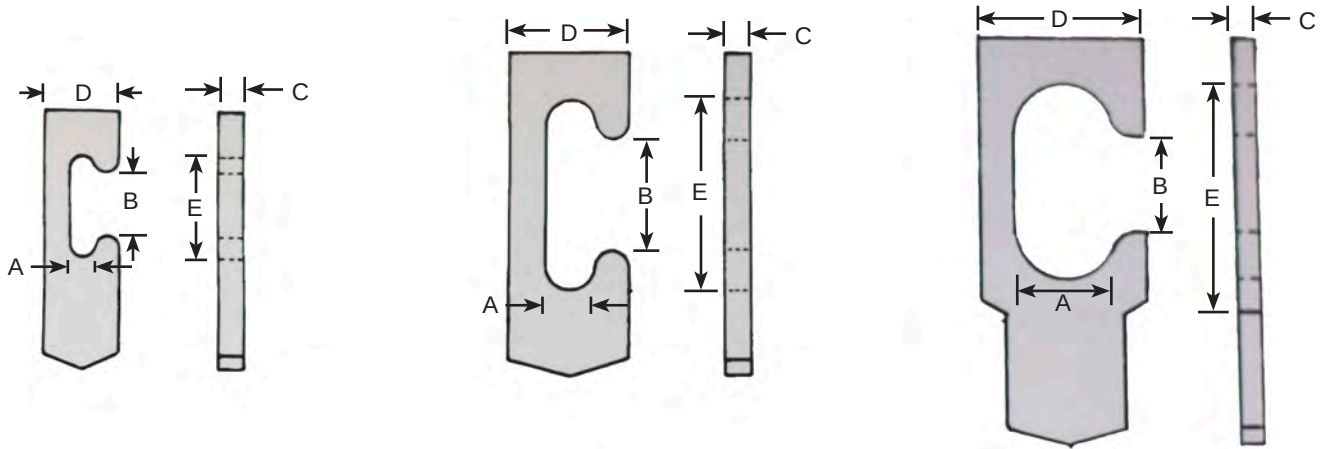
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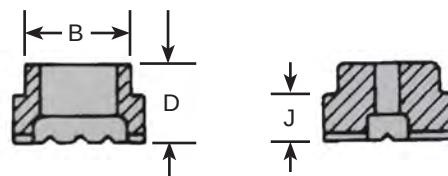
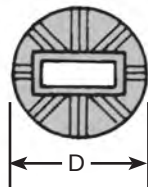
RECTANGULAR_{REC}

STUD SPECIFICATIONS



D	MIN L	C	A	B	E
$\frac{3}{8}$	$\frac{1}{4}$	$\frac{1}{8}$	.130	.34	.74
$\frac{5}{8}$	$\frac{5}{16}$	$\frac{1}{8}$	.255	.50	1.25
$\frac{7}{8}$	$\frac{7}{8}$	$\frac{1}{8}$	.505	.50	1.25

FERRULE SPECIFICATIONS



STUD SIZE	D	B	M	J
$\frac{3}{8}$	.640	.505	.390	.234
$\frac{5}{8}$ & $\frac{7}{8}$	1.093	.916	.436	.234



HANLON STUD WELDING

1157 PAGNI DRIVE

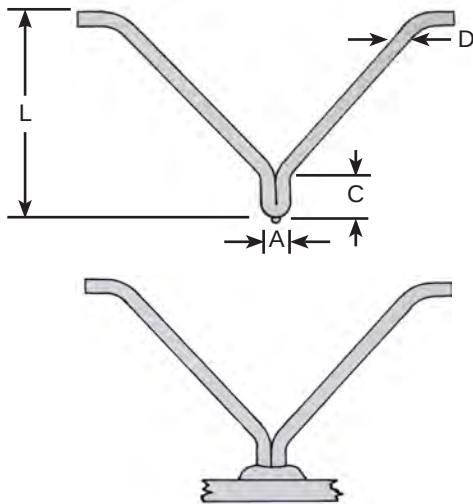
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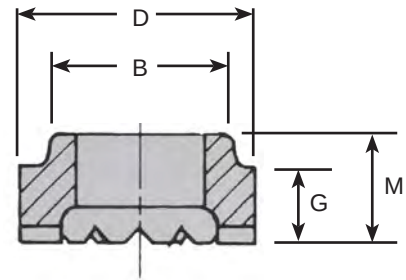
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STEER HORNST

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	A	C	MIN L	D	B	G	M
.187	.515	.625	1- $\frac{1}{8}$	1.030	.785	.171	.359

STEER HORN REFRACTORY ANCHOR STUDS: Used to secure refractory materials.

LENGTH: Available in required lengths above the recommended standard minimums [L]. Length is before weld. Stud will be approximately $\frac{1}{8}$ " shorter after welding.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 55,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is the most commonly used.

Other grades of stainless steel (except Type 303) are available when required.

FERRULES: All orders for studs include required ferrules.

FLUX: Type S4 refractory anchors are solid fluxed.

**HANLON STUD WELDING**

1157 PAGNI DRIVE

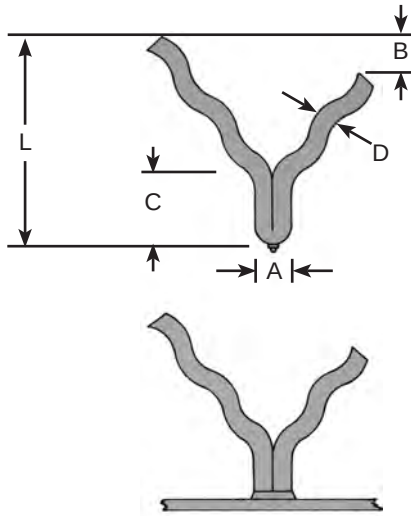
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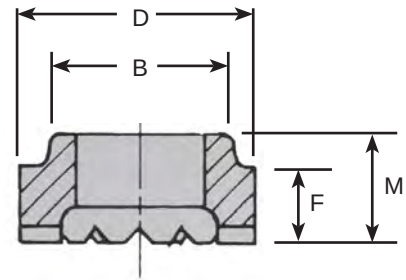
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Y REFRACTORY ANCHOR_Y

STUD SPECIFICATIONS



FERRULE SPECIFICATIONS



D	MAX A	B	C	MIN L	D	B	F	M
.250	.562	.500	.750	2	1.030	.785	.218	.468

Y REFRACTORY ANCHOR STUDS: Used to secure refractory materials.

LENGTH: Available in required lengths above the recommended standard minimums [L]. Length is before weld. Stud will be approximately $\frac{1}{8}$ " shorter after welding.

MILD STEEL: Low carbon steel.

Mechanical Properties (as cold drawn):

Tensile: 55,000 psi min.

Reduction in Area: 50% min.

STAINLESS STEEL: Type 304 is the most commonly used.

Other grades of stainless steel (except Type 303) are available when required.

FERRULES: All orders for studs include required ferrules.

FLUX: Type S4 refractory anchors are solid fluxed.



HANLON STUD WELDING

1157 PAGNI DRIVE

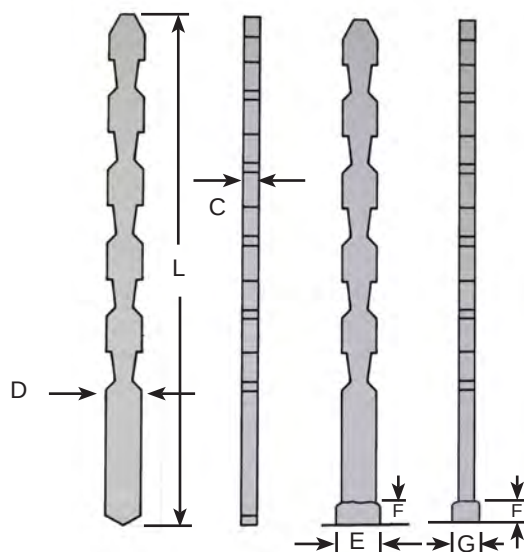
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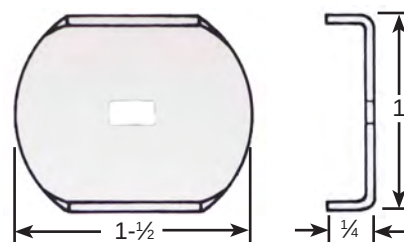
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INSULTWIST REFRACTORY ANCHOR_{RT}

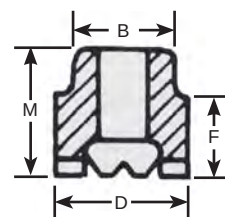
STUD SPECIFICATIONS



WASHER SPECIFICATIONS



FERRULE SPECIFICATIONS



D	MIN L	C	E	F	G	D	B	F	M
1/4	1-1/2	1/8	9/32	3/32	7/32	.640	.505	.234	.390

TWIST REFRACTORY STUDS: Used to secure ceramic fiber blanket felt or board to furnace walls and ceilings.

LENGTH: Available in required lengths from the standard minimums up through 14 inches. Length is before weld. Stud will be approximately 1/8" shorter after welding.

MATERIAL:

SS-304 Temperatures up to 1500 F
 SS-310 Temperatures up to 1850 F
 SS-330 Temperatures up to 2000 F
 Inconel 601 Temperatures up to 2150 F

FERRULES: All orders for studs include required ferrules.

WASHER: Washers are ordered separately. The stud and washer must be the same alloy.

PACKAGING: 100 Studs and ferrules per box. 100 washers per box.



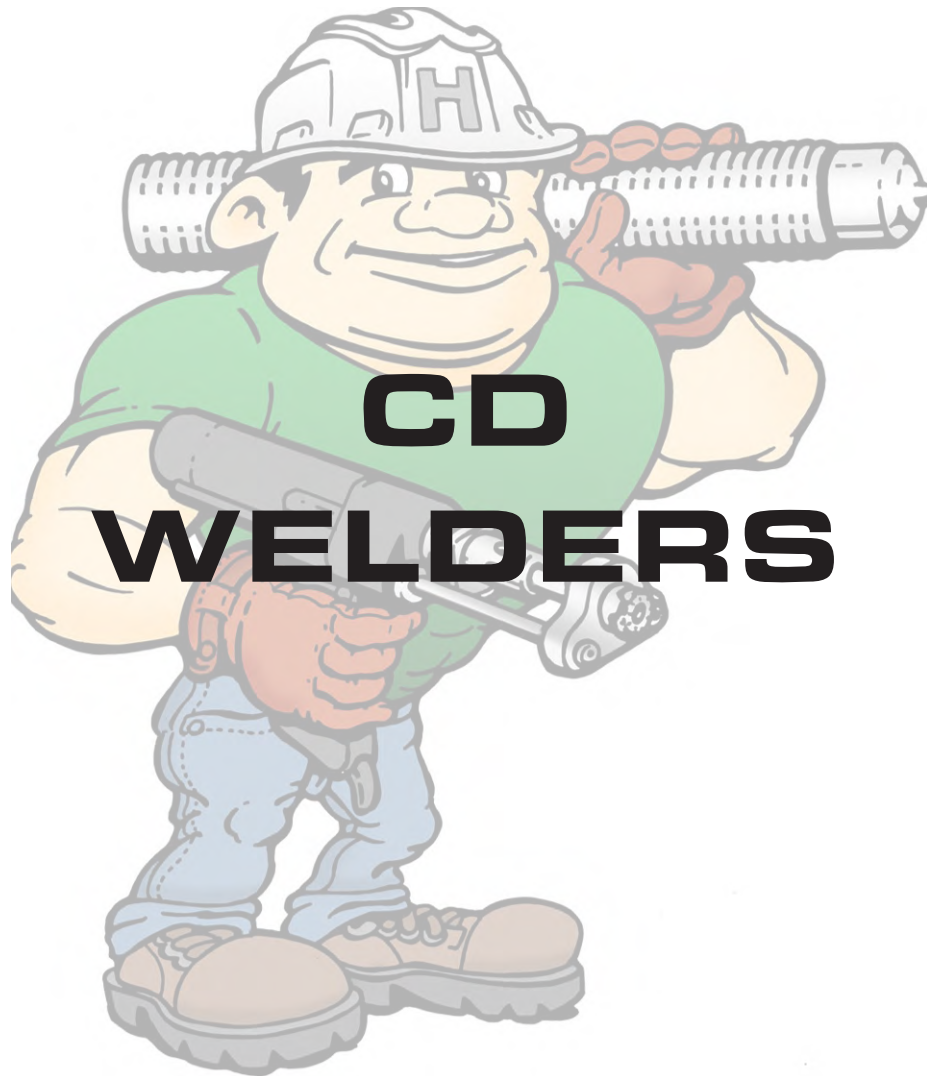
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**CD
WELDERS**

 **MADE IN AMERICA**



Tru-Weld
Stud Welding

TRU-WELD ACE-P100 PIN WELDER



The **ACE-P100** pin welder incorporates the latest technology into a compact, rugged, and portable machine. With an updated user interface and new system design, this unit has the capacity to weld pins up to 10 gauge and CD studs up to #10 faster than ever.

FEATURES



WELD RANGE

Weld Pins - Up to 10 Gauge
CD Studs - Up to #10



POWER

Universal Input: 85-250 VAC @ 50/60 HZ
Fusing Requirement: 10AMPS



DUTY CYCLE

15 to 30 Pins Per Minute



SAFETY

Thermal and Voltage Protection Indicators
to Protect the Unit From Damage Due to
Overheating or Poor Input Power



DIMENSIONS

6" H x 10.1" W x 12.5" L
10.2 Lbs (Excluding Hand Tool and Cables)



PERFORMANCE

Less Than 1 Second Recharge
Time for Pin Welding



EASY TO USE

Intuitive Touchscreen Interface with
Preset Values for Fast, Accurate,
and Repeatable Weld Settings

1 > 2 > 3

COUNTER

Resettable Stud Job Counter



HANLON STUD WELDING

1157 PAGNI DRIVE

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Tru-Weld
Stud Welding

TW-i 250 STUD WELDING SYSTEM



The **TW-i 250** incorporates the latest solid state technology into a compact, light weight and rugged CD stud welder. It has rigid internal construction that minimizes the possibility of components coming loose during rough handling or operations. The hand tool has been ergonomically designed to reduce operator fatigue for increased welding efficiency. The hand tool can be configured for B collets, collet inserts, Euro collets, or standard tapered chucks.

FEATURES



WELD RANGE

14 Gauge to 1/4" Stainless



POWER

110 VAC @ 50/60 Hz 15 Amp Circuit
220 VAC @ 50/60 Hz 7.5 Amp Circuit



DUTY CYCLE

1/4": 18 Studs Per Minute



SAFETY

Thermal and Voltage Protection Indicators to Protect the Unit From Damage Due to Overheating or Poor Input Power



DIMENSIONS

11.5" H x 10.5" W x 14" L
18 Lbs



PERFORMANCE

Unit Discharges Directly to a New Set Point without Needing to Discharge Completely



EASY TO USE

Intuitive Touchscreen Interface with Preset Values for Fast, Accurate and Repeatable Weld Settings

1>2 >3

COUNTER

Resettable Stud Job Counter



HANLON STUD WELDING

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Tru-Weld
Stud Welding

TW-i 250CP STUD WELDING SYSTEM



The **TW-i 250** incorporates the latest solid state technology into a compact, light weight and rugged CD stud welder designed specifically for cup head pins. It has rigid internal construction that minimizes the possibility of components coming loose during rough handling or operations. The hand tool has been ergonomically designed to reduce operator fatigue for increased welding efficiency.

FEATURES



WELD RANGE

14 Gauge to 1/4"



POWER

110 VAC @ 50/60 Hz 15 Amp Circuit
220 VAC @ 50/60 Hz 7.5 Amp Circuit



DUTY CYCLE

1/4": 18 Studs Per Minute



SAFETY

Thermal and Voltage Protection Indicators to Protect the Unit From Damage Due to Overheating or Poor Input Power



DIMENSIONS

11.5" H x 10.5" W x 14" L
18 Lbs



PERFORMANCE

Unit Discharges Directly to a New Set Point without Needing to Discharge Completely



EASY TO USE

Intuitive Touchscreen Interface with Preset Values for Fast, Accurate and Repeatable Weld Settings

1>2 >3

COUNTER

Resettable Stud Job Counter



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Tru-Weld
Stud Welding

TW-i 321 STUD WELDING SYSTEM



The **TW-i 321** incorporates the latest solid state technology into a compact, light weight and rugged CD stud welder. It has rigid internal construction that minimizes the possibility of components coming loose during rough handling or operations. The hand tool has been ergonomically designed to reduce operator fatigue for increased welding efficiency. The hand tool can be configured for B collets, collet inserts, Euro collets, or standard tapered chucks.

FEATURES



WELD RANGE

14 Gauge to $\frac{5}{16}$ "



POWER

110 VAC @ 50/60 Hz 15 Amp Circuit
220 VAC @ 50/60 Hz 7.5 Amp Circuit



DUTY CYCLE

$\frac{5}{16}$ " : 14 Studs Per Minute



SAFETY

Thermal and Voltage Protection Indicators to Protect the Unit From Damage Due to Overheating or Poor Input Power



DIMENSIONS

11.5" H x 10.5" W x 14" L
20.8 Lbs



PERFORMANCE

Unit Discharges Directly to a New Set Point without Needing to Discharge Completely



EASY TO USE

Intuitive Touchscreen Interface with Preset Values for Fast, Accurate and Repeatable Weld Settings

1 > 2 > 3

COUNTER

Resettable Stud Job Counter



HANLON STUD WELDING

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Tru-Weld
Stud Welding

TW-i 375 STUD WELDING SYSTEM



The **TW-i 375** incorporates the latest solid state technology into a compact, light weight and rugged CD stud welder. It has rigid internal construction that minimizes the possibility of components coming loose during rough handling or operations. The hand tool has been ergonomically designed to reduce operator fatigue for increased welding efficiency. The hand tool can be configured for B collets, collet inserts, Euro collets, or standard tapered chucks.

FEATURES



WELD RANGE

14 Gauge to $\frac{3}{8}$ "



POWER

110 VAC @ 50/60 Hz 15 Amp Circuit
220 VAC @ 50/60 Hz 7.5 Amp Circuit



DUTY CYCLE

$\frac{3}{8}$ " : 10 Studs Per Minute



SAFETY

Thermal and Voltage Protection Indicators to Protect the Unit From Damage Due to Overheating or Poor Input Power



DIMENSIONS

11.5" H x 10.5" W x 14" L
23.4 Lbs



PERFORMANCE

Unit Discharges Directly to a New Set Point without Needing to Discharge Completely



EASY TO USE

Intuitive Touchscreen Interface with Preset Values for Fast, Accurate and Repeatable Weld Settings

1 > 2 > 3

COUNTER

Resettable Stud Job Counter



HANLON STUD WELDING

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SURESHOT II STUD WELDING SYSTEM



The Sureshot II utilizes the best technology to provide Capacitor Discharge fastener welding 2nd to none. In lightweight and rugged packaging, this welder has the power to apply virtually any stud fastener known to the CD Insulation market with only 110 volt (or 220 volt incoming power). User-friendly, the system offers multi-level safety and operational designs to get the job done quickly, safely, and reliably.

FEATURES



WELD RANGE

14 Gauge to $\frac{5}{16}$ "



POWER

110 VAC @ 50/60 Hz 15 Amp Circuit
220 VAC @ 50/60 Hz 7.5 Amp Circuit



DUTY CYCLE

24 Studs Per Minute at Maximum Voltage



SAFETY

Built-In Safety Shutdowns



DIMENSIONS

6" H x 11.6" W x 13.7" L
18 Lbs



PERFORMANCE

Hybrid Power Technology



EASY TO USE

Digital LED, High Visibility Voltage Meter
and Push-Button Voltage Controls

1 > 2 > 3

COUNTER

Resettable Stud Job Counter



HANLON STUD WELDING

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DRAWN ARC WELDERS

 **MADE IN AMERICA**



TRU-WELD

TW4300 STUD WELDING SYSTEM



The **TW4300** is a fully integrated stud welding system for ferrule-shielded and gas-shielded drawn arc stud welding. The **TW4300** contains digital controls for weld time, weld current, and gas purge time.

The system was designed to be a perfect fit for shop use, welding up through ½" studs. This is all contained in a compact portable package.

INCLUDES: 800 Amp Power Supply Controller, TWE19000 Light Duty Stud Gun, 25 feet of #2 AWG Combo Cable and 15 feet of #2 AWG Ground Cable with Clamp.



WELD RANGE

⅛" To ½" Diameter Reduced Base



INPUT VOLTAGE

230 VAC 3 Phase 60 Hz
460 VAC 3 Phase 60 Hz



DUTY CYCLE

Up to ¼": Unlimited
⅜": 10 to 12 Per Minute
½": 2 to 3 Per Minute



FUSING REQUIREMENT

230 / 50 Amps (Slow Acting)
460 / 25 Amps



DIMENSIONS

12.6" H x 11" W x 22.4" L
106 Lbs



PERFORMANCE

Great Short Cycle Performance on
Thick and Thin Base Materials



PORTABLE

Two Handle Lift

1>2 >3

COUNTER

Resettable Stud Job Counter



HANLON STUD WELDING

1157 PAGNI DRIVE

ELK GROVE VILLAGE, IL 60007

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Tru-Weld
Stud Welding

TRU-WELD

TW4400 STUD WELDING SYSTEM



The **TW4400** is a fully integrated stud welding system for ferrule-shielded and gas-shielded drawn arc stud welding. The **TW4400** contains digital controls for weld time, weld current, and gas purge time.

The system was designed to be a perfect fit for shop use, welding up through $\frac{5}{8}$ " studs. This is all contained in a compact portable package.

INCLUDES: SC1100 Power Supply Controller, TWE19000 Light Duty Stud Gun, 25 feet of #1 AWG Combo Cable and 15 feet of #1 AWG Ground Cable with Clamp.



WELD RANGE

$\frac{1}{8}$ " To $\frac{5}{8}$ " Diameter



INPUT VOLTAGE

230 VAC 3 Phase 60 Hz
460 VAC 3 Phase 60 Hz



DUTY CYCLE

Up to $\frac{1}{2}$ " : Unlimited
Up to $\frac{3}{8}$ " : 7 to 8 Per Minute
Up to $\frac{1}{2}$ " : 4 to 5 Per Minute
Up to $\frac{5}{8}$ " : 2 to 3 Per Minute



FUSING REQUIREMENT

230 / 50 Amps
460 / 25 Amps



DIMENSIONS

12.6" H x 11" W x 22.4" L
125 Lbs



PERFORMANCE

Great Short Cycle Performance on
Thick and Thin Base Materials



PORTABLE

Two Handle Lift

1 > 2 > 3

COUNTER

Resettable Stud Job Counter



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TW5500 STUD WELDING SYSTEM



The **TW5500** is a fully integrated stud welding system for ferrule-shielded and gas-shielded drawn arc stud welding. The **TW5500** contains digital controls for weld time and current. Stepless time and current control allow for infinite settings for fine-tuning the welding output.

The system was designed to be a perfect fit for shop use, excelling at small to medium-sized diameter studs, all contained in a compact portable package.

INCLUDES: 1400 Amp Power Supply, TWE18500 Medium Duty Stud Gun, 35 feet of 2/O Weld and Control Cable and 25 feet of 2/O Ground Cable.



WELD RANGE

1/8" To 5/8" Diameter



INPUT VOLTAGE

230 VAC 3 Phase 60 Hz

460 VAC 3 Phase 60 Hz

575 VAC 3 Phase 60 Hz



DUTY CYCLE

Up to 3/8": Unlimited

Up to 1/2": 22 to 24 Per Minute

Up to 5/8": 9 to 10 Per Minute



FUSING REQUIREMENT

230 / 120 Amps

460 / 25 Amps

575 / 50 Amps



DIMENSIONS

22" H x 25" W x 30" L

380 Lbs



PERFORMANCE

Enhanced Duty Cycle for Production Requirements



SHOP USE

Capable of Up to 100 Feet of Weld

Cable to Accommodate a Large Variety of Work Station Layouts

1>2 >3

COUNTER

Resettable Stud Job Counter



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TW5600 STUD WELDING SYSTEM



The **TW5600** is a fully integrated stud welding system for ferrule-shielded and gas-shielded drawn arc stud welding. The **TW5600** contains digital controls for weld time and current. Stepless time and current control allow for infinite settings for fine-tuning the welding output.

The system was designed to be a perfect fit for shop use, excelling at small to medium-sized diameter studs, all contained in a compact portable package.

INCLUDES: 1600 Amp Power Supply, TWE17000 Heavy Duty Stud Gun, 35 feet of 4/O Weld and Control Cable and 25 feet of 4/O Ground Cable.



WELD RANGE

1/4" To 3/4" Diameter



INPUT VOLTAGE

230 VAC 3 Phase 60 Hz

460 VAC 3 Phase 60 Hz

575 VAC 3 Phase 60 Hz



DUTY CYCLE

Up to 3/8": Unlimited

Up to 1/2": 22 to 24 Per Minute

Up to 5/8": 9 to 10 Per Minute

Up to 3/4": 4 to 5 Per Minute



FUSING REQUIREMENT

230 / 120 Amps

460 / 25 Amps

575 / 50 Amps



DIMENSIONS

22" H x 25" W x 30" L

380 Lbs



PERFORMANCE

Enhanced Duty Cycle for Production Requirements



SHOP USE

Capable of Up to 100 Feet of Weld

Cable to Accommodate a Large Variety of Work Station Layouts

1>2 >3

COUNTER

Resettable Stud Job Counter



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TRU-WELD

TW5700 STUD WELDING SYSTEM



The **TW5700** is a fully integrated stud welding system for ferrule-shielded and gas-shielded drawn arc stud welding. The **TW5700** contains digital controls for weld time and current. Stepless time and current control allow for infinite settings for fine-tuning the welding output.

The system was designed to be a perfect fit for shop use, excelling at small to medium-sized diameter studs, all contained in a compact portable package.

INCLUDES: 1900 Amp Power Supply, TWE17000 Heavy Duty Stud Gun, 35 feet of 4/O Weld and Control Cable and 25 feet of 4/O Ground Cable.



WELD RANGE

1/4" To 7/8" Diameter



INPUT VOLTAGE

230 VAC 3 Phase 60 Hz

460 VAC 3 Phase 60 Hz

575 VAC 3 Phase 60 Hz



DUTY CYCLE

Up to 3/8": Unlimited
Up to 1/2": 22 to 24 Per Minute
Up to 5/8": 9 to 10 Per Minute
Up to 3/4": 4 to 5 Per Minute
Up to 7/8": 3 to 4 Per Minute



FUSING REQUIREMENT

230 / 120 Amps

460 / 25 Amps

575 / 50 Amps



DIMENSIONS

22" H x 25" W x 30" L

390 Lbs



PERFORMANCE

Enhanced Duty Cycle for Production Requirements



SHOP USE

Capable of Up to 100 Feet of Weld
Cable to Accommodate a Large Variety of Work Station Layouts

1>2 >3

COUNTER

Resettable Stud Job Counter



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TW6800 STUD WELDING SYSTEM



The **TW6800** is a fully integrated stud welding system for ferrule-shielded and gas-shielded drawn arc stud welding. The **TW6800** contains two (2) digital controls for weld time and current. Stepless time and current control allow for infinite settings for fine-tuning the welding output.

The system was designed to meet the most challenging stud welding jobs.

INCLUDES: Power Supply, TWE17000 Heavy Duty Stud Gun, 50 feet of 4/O Weld and Control Cable and 25 feet of 4/O Ground Cable.



WELD RANGE

1/4" To 1" Diameter



INPUT VOLTAGE

230 VAC 3 Phase 60 Hz
460 VAC 3 Phase 60 Hz
575 VAC 3 Phase 60 Hz



DUTY CYCLE

Up to 5/8": Unlimited
Up to 1/4": 18 to 24 Per Minute
Up to 3/8": 12 to 14 Per Minute
Up to 1": 6 to 8 Per Minute



FUSING REQUIREMENT

230 / 150 Amps
460 / 90 Amps
575 / 80 Amps



DIMENSIONS

29" H x 28" W x 36" L
665 Lbs



PERFORMANCE

Powerful Output for Even the
Largest Diameter Jobs



SAFETY

Safety Welding Interlock Keeps System
from Double Triggering and Saves on
Chuck Wear

1 > 2 > 3

COUNTER

Resettable Stud Job Counter



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TW6802 STUD WELDING SYSTEM



The **TW6802** is a fully integrated stud welding system for ferrule-shielded and gas-shielded drawn arc stud welding. The TW6802 contains two (2) digital controls for weld time and current. Stepless time and current control allow for infinite settings for fine-tuning the welding output.

The system was designed to meet the most challenging stud welding jobs.

INCLUDES: Power Supply, Two (2) TWE17000 Heavy Duty Stud Guns, Two (2) Sets of 50 feet 4/O Weld and Control Cable and Two (2) Sets of 25 feet 4/O Ground Cable.



WELD RANGE

1/4" To 1" Diameter



INPUT VOLTAGE

230 VAC 3 Phase 60 Hz
460 VAC 3 Phase 60 Hz
575 VAC 3 Phase 60 Hz



DUTY CYCLE

Up to 5/8": Unlimited
Up to 3/4": 18 to 24 Per Minute
Up to 7/8": 12 to 14 Per Minute
Up to 1": 8 to 8 Per Minute



FUSING REQUIREMENT

230 / 180 Amps
460 / 290 Amps
575 / 80 Amps



DIMENSIONS

29" H x 28" W x 36" L
695 Lbs



PERFORMANCE

Powerful Output for Even the
Largest Diameter Jobs



SAFETY

Safety Welding Interlock Keeps System
from Double Triggering and Saves on
Chuck Wear

1 > 2 > 3

COUNTER

Resettable Stud Job Counter



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TRU-WELD

TW6900 STUD WELDING SYSTEM



The **TW6900** is a fully integrated stud welding system for ferrule-shielded and gas-shielded drawn arc stud welding. The **TW6900** contains two (2) digital controls for weld time and current. Stepless time and current control allow for infinite settings for fine-tuning the welding output.

The system was designed to meet the most challenging stud welding jobs, including thru-deck applications, including G90 decking.

INCLUDES: 3000 Amp Power Supply, TWE17000 Heavy Duty Stud Gun, 50 feet of 4/O Weld and Control Cable and 25 feet of 4/O Ground Cable.



WELD RANGE

1/4" To 1-1/4" Diameter



INPUT VOLTAGE

230/460/575 VAC 3 Phase 60 Hz
400 VAC 3 Phase 50 Hz



DUTY CYCLE

Up to 5/8": Unlimited
Up to 3/4": 22 to 24 Per Minute
Up to 7/8": 16 to 18 Per Minute
Up to 1": 12 to 14 Per Minute
Up to 1-1/4": 4 to 5 Per Minute



FUSING REQUIREMENT

230 / 200 Amps
460 / 100 Amps
575 / 90 Amps



DIMENSIONS

28" H x 29" W x 36" L
760 Lbs



PERFORMANCE

Powerful Output for Even the
Largest Diameter Jobs



SAFETY

Safety Welding Interlock Keeps System
from Double Triggering and Saves on
Chuck Wear

1>2 >3

COUNTER

Resettable Stud Job Counter



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TW3402 STUD WELDING SYSTEM



The TW3402 is a fully integrated stud welding system for ferrule-shielded and gas-shielded drawn arc stud welding. The **TW3402** contains two (2) digital controls for weld time and current. Stepless time and current control allow for infinite settings for fine-tuning the welding output.

The system was designed to meet the most challenging stud welding jobs, including thru-deck applications, including G90 decking.

INCLUDES: 3000 Amp Power Supply, Two (2) TWE17000 Heavy Duty Stud Guns, Two (2) Sets of 50 feet 4/O Weld and Control Cable and Two (2) Sets of 25 feet 4/O Ground Cable.



WELD RANGE

1/4" To 1-1/4" Diameter



INPUT VOLTAGE

230/460/575 VAC 3 Phase 60 Hz
400 VAC 3 Phase 50 Hz



DUTY CYCLE

Up to 5/8": Unlimited
Up to 3/4": 22 to 24 Per Minute
Up to 7/8": 16 to 18 Per Minute
Up to 1": 12 to 14 Per Minute
Up to 1-1/4": 4 to 5 Per Minute



FUSING REQUIREMENT

230 / 200 Amps
400 / 100 Amps
460 / 100 Amps
575 / 90 Amps



DIMENSIONS

28" H x 29" W x 36" L
875 Lbs



PERFORMANCE

Powerful Output for Even the
Largest Diameter Jobs



SAFETY

Safety Welding Interlock Keeps System
from Double Triggering and Saves on
Chuck Wear

1>2 >3

COUNTER

Resettable Stud Job Counter



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NELSON N1500i STUD WELDING SYSTEM



This lightweight inverted stud welder can deliver 1500 amps for 3/4" (19mm) full base diameter stud welding. This machine is perfect for construction, ship building, industrial, automotive repair, and production applications. Requires less AC input power than traditional transformer rectifier systems as well as producing unrivaled welds for auto-feed hand gun applications

2 Year or 1,000,000 Weld Warranty

INCLUDES: Power Supply, NS40 Welding Gun - 2 Wire, 25 feet of #1 Combination Cable and 25 feet of 2/0 Ground Cable with Clamp.



WELD RANGE

3/16" To 3/4" Diameter



INPUT VOLTAGE

3 Phase 208 - 240V, 50/60 Hz @ 60 A

3 Phase 400 - 480V, 50/60 Hz @ 60 A

1 Phase 200 - 220V, 50/60 Hz @ 60 A



DUTY CYCLE

Up to 5/16": 30 Per Minute

Up to 3/8": 29 Per Minute

Up to 1/2": 19 Per Minute

Up to 5/8": 8 Per Minute

Up to 3/4": 4 Per Minute



FUSING REQUIREMENT

230 / 60 Amps

460 / 30 Amps

575 / 25 Amps



DIMENSIONS

16-1/2" H x 10-5/8" W x 28" L

79 Lbs



PERFORMANCE

Third Generation All Digital Inverter

System Delivers 50% More Power Than

Comparable Products Available



EASY TO USE

User Friendly Control Panel with 10

Preset Buttons and Weld Quality Gauge



STUD EXPERT™

Nelson's Pre-Programmed Stud

Expert™ Can Automatically Select the

Best Settings for Your Stud Diameter



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NELSON N550C ARC CHARGER™



The N550c Arc Charger™ is the first of a revolutionary new class of stud welding power sources. The N550c Arc Charger™ has the capacity to weld the full range of drawn arc studs, up to $\frac{3}{8}$ " pitch diameter, with an ultra smooth high speed switching welding arc, while requiring power from just a standard household 120V wall outlet. This breakthrough combination enables high-strength drawn arc stud welding in just about any location, without the need for high-voltage, industrial 3-phase power, or a large generator.

INCLUDES: Power Supply, NS40 Welding Gun - 2 Wire, 25 feet of #1 Combination Cable and 25 feet of 2/0 Ground Cable with Clamp.



WELD RANGE

$\frac{3}{16}$ " To $\frac{3}{8}$ " Diameter



INPUT VOLTAGE

120V



DUTY CYCLE

Up to $\frac{3}{16}$ " : 15 Per Minute
Up to $\frac{3}{8}$ " : 6 Per Minute



PORTABLE

Two Handle Lift



DIMENSIONS

17.9" H x 11.3" W x 28" L
86 Lbs



PERFORMANCE

Consistent, Smooth Arc Control for
Drawn Arc, Gas Arc, and Short Cycle
Processes with all Weldable Metals



EASY TO USE

User Friendly Control Panel with 10
Preset Buttons and Weld Quality Gauge



STUD EXPERT™

Nelson's Pre-Programmed Stud
Expert™ Can Automatically Select the
Best Settings for Your Stud Diameter



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MIDWEST FASTENERS UA 1000 STUD WELDING SYSTEM



The **UA 1000** arc stud welding system is a three-phase transformer/rectifier-type stud welder capable of applying weld studs up to $\frac{5}{8}$ " in diameter. Useful in all types of metal fabrication, refractory, insulation installation, and numerous other stud welding applications.

INCLUDES: Power Supply, Welding Gun, 50 feet of 4/0 Combination Cable and 25 feet of 4/0 Ground Cable with "C" Clamp.



WELD RANGE

10 Gauge to $\frac{5}{8}$ " Diameter



INPUT VOLTAGE

230 VAC 3 Phase 60 Hz
460 VAC 3 Phase 60 Hz
575 VAC 3 Phase 60 Hz



DUTY CYCLE

Up to $\frac{3}{8}$ " : Unlimited
Up to $\frac{1}{2}$ " : 14 Per minute
Up to $\frac{5}{8}$ " : 10 Per Minute



FUSING REQUIREMENT

230 / 100 Amps
460 / 50 Amps
575 / 40 Amps



DIMENSIONS

30" H x 22- $\frac{1}{4}$ " W x 40" L
500 Lbs



MANUAL WELDING

Manual Welding - All Size Electrodes
Arc Air Gouging - Up to 450 Amps



HANLON STUD WELDING

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MIDWEST FASTENERS UA 1800 STUD WELDING SYSTEM



The **UA 1800** arc stud welding system is a three-phase transformer/rectifier-type stud welder capable of applying weld studs up to $\frac{7}{8}$ " in diameter. Useful in all types of metal fabrication, refractory, insulation installation, and numerous other stud welding applications.

INCLUDES: Power Supply, Welding Gun, 50 feet of 4/0 Combination Cable and 25 feet of 4/0 Ground Cable with "C" Clamp.



WELD RANGE

10 Gauge to $\frac{7}{8}$ " Diameter



INPUT VOLTAGE

230 VAC 3 Phase 60 Hz
460 VAC 3 Phase 60 Hz
575 VAC 3 Phase 60 Hz



DUTY CYCLE

Up to $\frac{1}{2}$ " : Unlimited
Up to $\frac{5}{8}$ " : 18 Per Minute
Up to $\frac{3}{4}$ " : 12 Per Minute
Up to $\frac{7}{8}$ " : 6 Per Minute



FUSING REQUIREMENT

230 / 170 Amps
460 / 90 Amps
575 / 70 Amps



DIMENSIONS

30" H x 22-1/4" W x 40" L
650 Lbs



MANUAL WELDING

Manual Welding - All Size Electrodes
Arc Air Gouging - Up to 750 Amps



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VISAR 650 STUD WELDING SYSTEM



POWERFUL LIGHTWEIGHT

Experience a previously unknown dimension in power and mobility! HBS is ringing in the future with 1-phase power connection ARC stud welding with its Visar 650, a global product innovation from the Quasar device series.

INCLUDES: Power Supply, A12 Welding Gun, Ground Cable.



WELD RANGE

14 Gauge to $\frac{3}{8}$ " Diameter



INPUT VOLTAGE

100 - 240V 1 Phase, 50/60 Hz



DUTY CYCLE

#4: 40 Per Minute
 $\frac{5}{16}$ ": 12 Per Minute



PORTABLE

One Handle Lift



DIMENSIONS

18.66" H x 13.27" W x 13.82" L
39 Lbs



PERFORMANCE

Provides 3X More in Output Power Than
It Draws From the Grid



EASY TO USE

Intuitive, Easy to Operate with
Backlighting on the Knobs, Simple to Use
in Low Lighting Conditions



ENCLOSED

Enclosed Housing Protects Against
Dirt, Water, Dust and Knocks



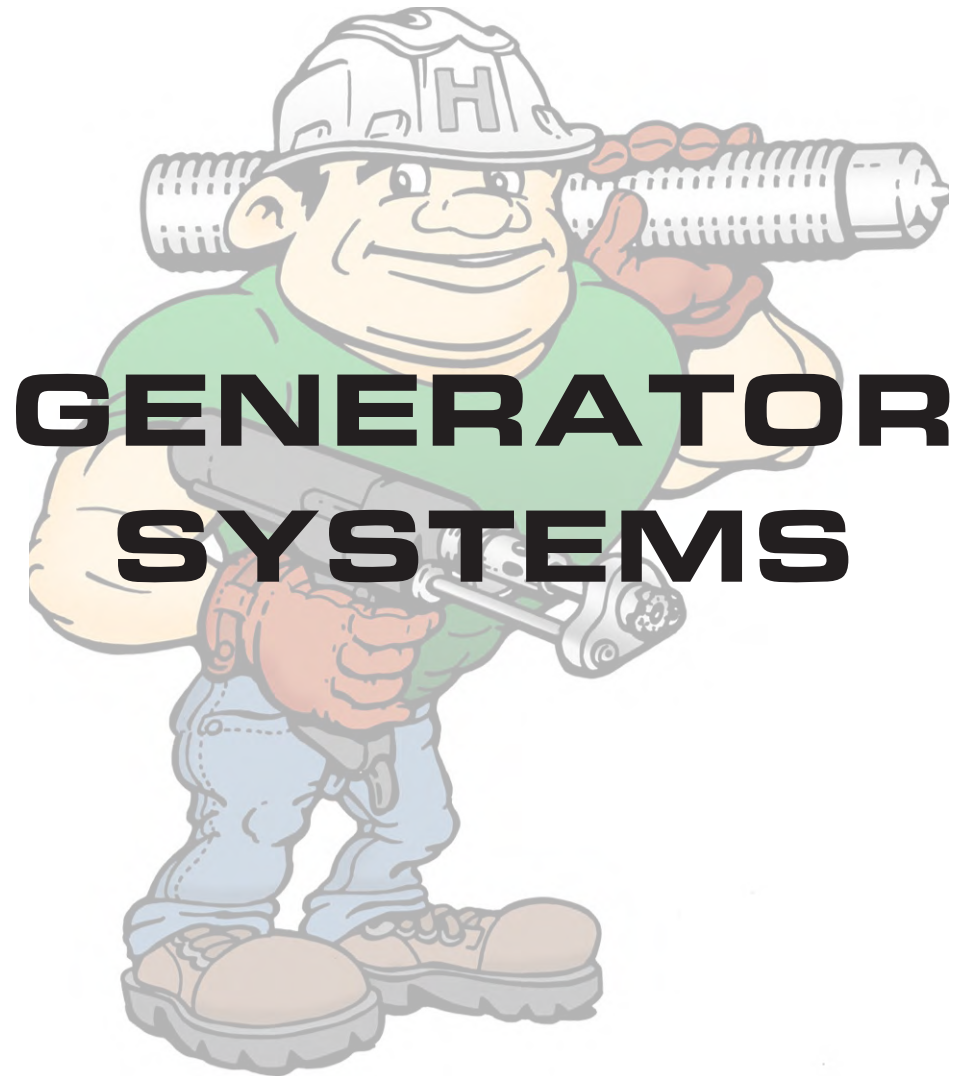
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 **MADE IN AMERICA**



Tru-Weld
Stud Welding

SJ205-T4 PORTABLE GENERATOR SYSTEM



The SJ 205-T4 is a complete mobile stud welding package that is fully compliant with the Tier IV emissions regulations. The system incorporates a heavy duty dual gun stud welder coupled with a Cummins diesel generator system to enable jobs to be done more effectively and efficiently.

SPECIFICATIONS

- 9L Cummins Engine
- Tru-Weld TWE 3402 Dual Gun Stud Welding System
- 217" L x 78" W x 100" H
- 9800 Lbs (Dry)
- Amp Load Capacity: 300 Amps
- 256 KVA Generator System
- Block Engine Heater
- Battery Trickle Charger
- 150 Amp Main Stud Machine Breaker
- 200 Amp Auxiliary Breaker
- Dual 7000 Pound Axles
- Lightweight Aluminum Enclosure
- Easy Access Doors for Generator and Welder Controls
- Fully Insulated Enclosure
- Electronic Governor
- 2 120 VAC, 20A Receptacles
- Surge Brakes
- 4 Lifting Hooks
- Lockable Storage Box
- Keyed Access Doors



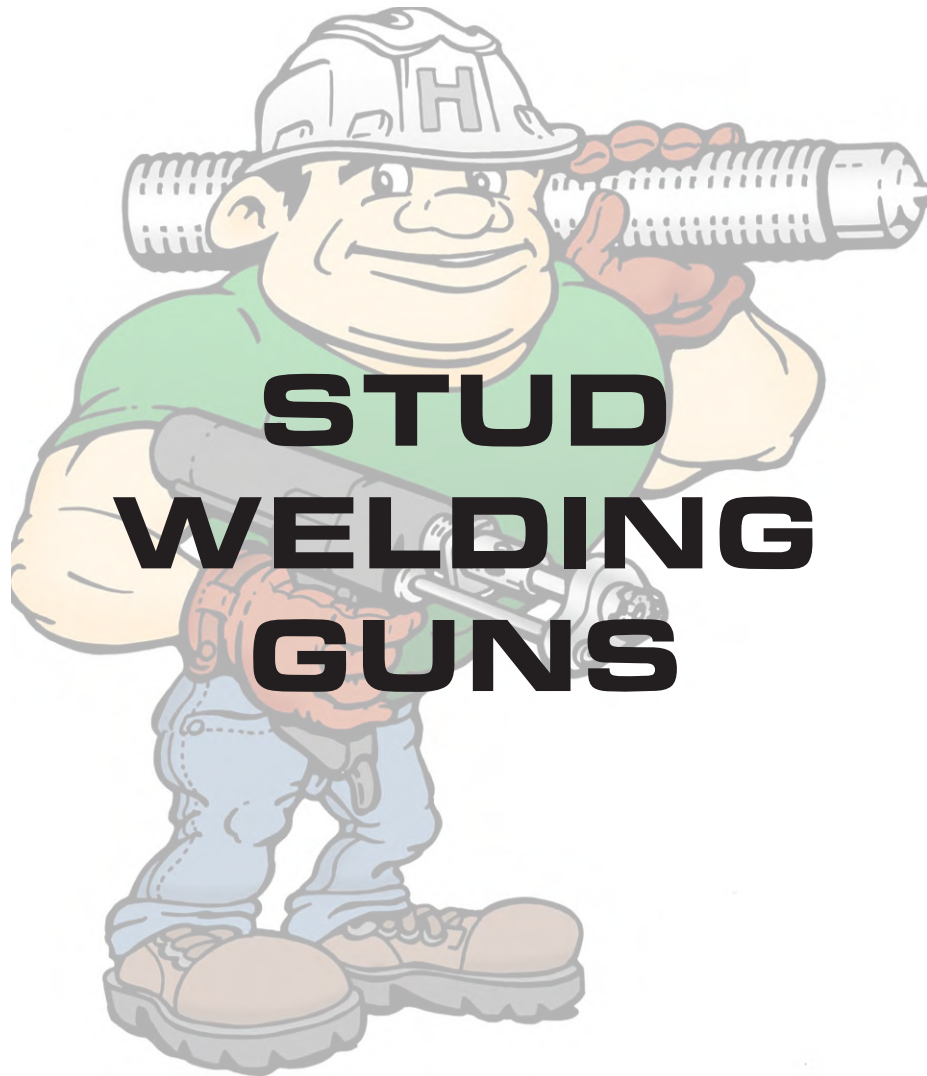
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STUD WELDING GUNS

 **MADE IN AMERICA**



TRU-WELD CD STUD WELDING GUN



The Tru-Weld CD Stud Guns are ergonomically designed for better hand fit and comfort which reduces operator fatigue.

The CD Stud Guns have a permanent internal spring with an easy adjustment for various spring pressures allowing an increased opportunity to apply the correct spring pressure to the weld. There is no need for a variety of different springs for various applications.

INCLUDES: Stud welding gun and gun cable. Three sizes available: Pin, Light Duty and Heavy Duty.



PIN GUN

Compatible with Midwest Fasteners SureShot I & II, Tru-Weld Ace P100, Tru-Weld TWP2, Erico and Proweld stud welders.



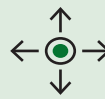
CABLES

The Pin gun includes 15 feet of cable. The Light Duty and Heavy Duty gun includes 25 feet of cable.



LIGHT DUTY

Compatible with Tru-Weld, Proweld, Midwest Fasteners, H.A. Jones, and Erico stud welders.



COLLETS

Can be configured for "B" Collets, "CI" Collets, Soyer/Euro Collets or Standard Tapered Chucks.



HEAVY DUTY

Compatible with Tru-Weld, Proweld, Midwest Fasteners, H.A. Jones, and Erico stud welders.



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SLIM-LINE CD STUD WELDING GUN



INCLUDES: Stud welding gun and 25 feet of gun cable.

The Slim-Line CD gun is ideal for welding small diameter studs in hard to reach locations. Great for restaurant equipment and small enclosures. The operator just presses the gun to the work piece to weld the stud.

It comes standard with a large Camlok weld cable connector and a Hubbell control connector. The gun can be modified to use other cable connectors, call Hanlon Stud Welding to ask for details.



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Tru-Weld
Stud Welding

TRU-WELD LIGHT DUTY ARC STUD GUN



The TWE19000 has been designed to fit comfortably for all hands, including wearing a work glove. The neck of the handle has been tapered so that when grasped, the trigger can be accessed easily, without any unnecessary strain. The handle length allows for better balance of the stud gun and it keeps the welding cable and connector away from your hand, minimizing operator fatigue.

INCLUDES: Stud welding gun, 7.5 feet of 2/0 weld cable and 9 feet of control cable.



WELD RANGE

1/8" through 1/2" diameter studs



COMPATIBLE

Can be ordered to operate with any brand stud welding equipment. By default comes with Camlok and Phoenix connectors.



DIMENSIONS

7" H x 2.4" W x 8" L
4.2 Lbs excluding cables, connectors, legs and foot piece



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Tru-Weld
Stud Welding

TRU-WELD MEDIUM DUTY ARC STUD GUN



The TWE18500 has been designed to fit comfortably for all hands, including wearing a work glove. The neck of the handle has been tapered so that when grasped, the trigger can be accessed easily, without any unnecessary strain. The handle length allows for better balance of the stud gun and it keeps the welding cable and connector away from your hand, minimizing operator fatigue.

INCLUDES: Stud welding gun, 8.5 feet of 2/0 weld cable and 9 feet of control cable.



WELD RANGE

1/8" through 5/8" diameter studs



COMPATIBLE

Can be orderd to operate with any brand stud welding equipment. By default comes with Camlok and Phoenix connectors.



DIMENSIONS

7" H x 2.4" W x 8.5" L
4.8 Lbs excluding cables, connectors,
legs and foot piece



HANLON STUD WELDING

1157 PAGNI DRIVE

ELK GROVE VILLAGE, IL 60007

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Tru-Weld
Stud Welding

TRU-WELD HEAVY DUTY ARC STUD GUN



The TWE17000 has been designed to fit comfortably for all hands, including wearing a work glove. The neck of the handle has been tapered so that when grasped, the trigger can be accessed easily, without any unnecessary strain. The handle length allows for better balance of the stud gun and it keeps the welding cable and connector away from your hand, minimizing operator fatigue.

INCLUDES: Stud welding gun, 8.5 feet of 4/0 weld cable and 8 feet of control cable.



WELD RANGE

1/8" through 1-1/4" diameter studs



COMPATIBLE

Can be orderd to operate with any brand stud welding equipment. By default comes with Camlok and Phoenix connectors.



DIMENSIONS

7" H x 2.5" W x 10" L
5.2 Lbs excluding cables, connectors, legs and foot piece



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 **MADE IN AMERICA**

COLLETS

"B" COLLETS

STUD SIZE	PART NO
#2	BC086
#3	BC093
#4	BC105
#5	BC125
#6	BC138
#8	BC164
#10	BC190
#12	BC215
3/32	BC093
5/32	BC156
1/4	BC250
1/4 BY 1/2 DEEP	BC250-050
5/16	BC312
5/16 WITH O RING	BC312O
5/16 BY 1/2 DEEP	BC312-050
3/8	BC375
3/8 WITH O RING	BC375O
.177	BC177
3MM	BC3MM
4MM	BC4MM
5MM	BC5MM
6MM	BC6MM
7MM	BC7MM
8MM	BC8MM
8MM WITH O RING	BC8MMO
10MM	BC10MM



"B" COLLETS FOR INSULATION

STUD SIZE	PART NO
10 GAUGE	BC10
12 GAUGE	BC12
14 GAUGE	BC14



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COLLETS

HYBRID "B" COLLETS FOR INSULATION

STUD SIZE	PART NO
10 GAUGE	HYB10
12 GAUGE	HYB12
14 GAUGE	HYB14



"B" ACOUSTICAL HANGER

STUD SIZE	PART NO
.168	BAH214
.214	BAH168



"B" KEYHOLE COLLET

SIZE	PART NO
3/8 X 1/8	BCKEY38
7/16 X 1/8	BCKEY716



SOYER/EURO COLLETS

STUD SIZE	PART NO
10 GAUGE	SC138
12 GAUGE	SC105
#6	SC138
#8	SC164
#10	SC190
1/4	SC250
5/16	SC312
3/8	SC375
3MM	SC3MM
4MM	SC4MM
5MM	SC5MM
6MM	SC6MM
8MM	SC8MM
10MM	SC10MM
12MM	SC12MM



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COLLETS

NELSON COLLETS

STUD SIZE	PART NO
10 GAUGE	NC138
12 GAUGE	NC105
14 GAUGE	NC081
#4	NC110
#6	NC138
#8	NC164
#10	NC190
1/4	NC250
5/16	NC312
3/8	NC375
.177	NC177
3MM	NC3MM
4MM	NC4MM
5MM	NC5MM
6MM	NC6MM
8MM	NC8MM
10MM	NC10MM



NELSON STOPS

STUD LENGTH	PART NO
1-3/4 TO 2-1/8	NS-4
1-1/4 TO 1-5/8	NS-3
1/8 TO 5/8	NS-2
3/4 TO 1-1/8	NS-1
UNIVERSAL	NS-U



UNIVERSAL "B" STOPS

STUD LENGTH	PART NO
12 GAUGE TO 3/8	UBS
14 GAUGE	UBS14
BUTTON	BS-B



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COLLET EXTENSION

COLLET EXTENSION B-B 3 FT

DESCRIPTION	PART NO
STRAIGHT END	RCE
90	RCE90

COLLET EXTENSION B-CI 3 FT

DESCRIPTION	PART NO
STRAIGHT END	MRCE
90	MRCE90



COLLET PROTECTORS

"B" COLLET PROTECTORS

STUD SIZE	PART NO
10 GAUGE	CP-10
12 GAUGE	CP-12
14 GAUGE	CP-14
3/16 ANNULAR RING NAVY	CP177



"B" COLLET PROTECTOR BODY

PART NO

CP-B



"B" COLLET PROTECTOR INSERT

STUD SIZE	PART NO
10 GAUGE	CPI-10
12 GAUGE	CPI-12
14 GAUGE	CPI-14



AGM STYLE COLLET PROTECTOR

STUD SIZE	PART NO
10 GAUGE	AGMCP10
12 GAUGE	AGMCP12
14 GAUGE	AGMCP14



AGM STYLE COLLET PROTECTOR NYLON

STUD SIZE	PART NO
10 GAUGE	AGMCP10-N
12 GAUGE	AGMCP12-



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CUP HEAD CHUCKS

MAGNETIC CUP HEAD CHUCK HEAVY DUTY

PART NO

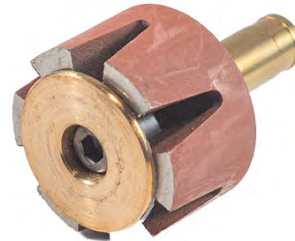
MCC-HD



MAGNETIC CUP HEAD CHUCK ASSEMBLY

PART NO

MCC-ASM



MAGNETIC CUP HEAD CHUCK 1 PIECE AGM STYLE

PART NO

MCC-AGM



MAGNETIC CUP HEAD CHUCK POSI-WELD STYLE

PART NO

MCC-POSI



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LEGS & FEET

GUN LEGS

STUD SIZE	PART NO
7"	CDL7
9"	CDL9
12"	CDL12
14"	CDL14



FEET

STUD SIZE	PART NO
SPLIT/OPEN	CDFTS
CLOSED	CDFT



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SPARK SHIELDS

SPARK SHIELD FOR PINS VENTED

PART NO

1525-1



SPARK SHIELD FOR PINS NON-VENTED

PART NO

1525



SPARK SHIELD FOR STUDS VENTED 29/64" HOLE

PART NO

SSSV



SPARK SHIELD FOR STUDS NON-VENTED 29/64" HOLE

PART NO

1524



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ADAPTORS

B - N ADAPTOR

PART NO

ADB-N



N - B ADAPTOR

PART NO

ADN-B



SOYER/EURO - B ADAPTOR

PART NO

ADS-B



SOYER/EURO - N ADAPTOR

PART NO

ADS-N



B - CI ADAPTOR

PART NO

ADB-CI



CI - B ADAPTOR

PART NO

ADCI-B



N - CI ADAPTOR

PART NO

ADN-CI



SOYER/EURO - CI ADPATOR

PART NO

ADS-CI



NELSON - B ADPATOR

PART NO

AD-NEL-B



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COLLET INSERTS

COLLET INSERTS FOR STUDS

STUD DIA & DEPTH	PART NO
#4 X 1/8	CI110-125
#4 X 3/16	CI110-187
#4 X 1/4	CI110-250
#4 X 3/8	CI110-375
#4 X 1/2	CI110-500
#4 X 5/8	CI110-625
#4 X 3/4	CI110-750
#4 X 1"	CI110-100
#6 X 1/8	CI138-125
#6 X 3/16	CI138-187
#6 X 1/4	CI138-250
#6 X 3/8	CI138-375
#6 X 1/2	CI138-500
#6 X 5/8	CI138-625
#6 X 3/4	CI138-750
#6 X 1"	CI138-100
#8 X 1/8	CI164-125
#8 X 3/16	CI164-187
#8 X 1/4	CI164-250
#8 X 3/8	CI164-375
#8 X 1/2	CI164-500
#8 X 5/8	CI164-625
#8 X 3/4	CI164-750
#10 X 1"	CI190-100
#10 X 1/8	CI190-125
#10 X 3/16	CI190-187
#10 X 1/4	CI190-250
#10 X 3/8	CI190-375
#10 X 1/2	CI190-500
#10 X 5/8	CI190-625
#10 X 3/4	CI190-750
#10 X 1"	CI190-100

COLLET INSERTS FOR STUDS

STUD DIA & DEPTH	PART NO
1/8 X 1/4	CI125-250
1/8 X 3/8	CI125-375
1/8 X 1/2	CI125-500
1/8 X 1"	CI125-100
1/4 X 1/8	CI250-125
1/4 X 3/16	CI250-187
1/4 X 1/4	CI250-250
1/4 X 3/8	CI250-375
1/4 X 1/2	CI250-500
1/4 X 5/8	CI250-625
1/4 X 3/4	CI250-750
1/4 X 1"	CI250-100
5/16 X 1/4	CI312-250
5/16 X 3/8	CI312-375
5/16 X 1/2	CI312-500
5/16 X 3/4	CI312-750
5/16 X 1"	CI312-100
3/8 X 1/4	CI164-250
3/8 X 3/8	CI164-375
3/8 X 1/2	CI164-500
3/8 X 3/4	CI164-750
3/8 X 1"	CI190-100



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COLLET INSERTS

COLLET INSERTS FOR WELD PINS

STUD DIA & DEPTH	PART NO
10 GAUGE X 1/4	CI-10-250
10 GAUGE X 1/2	CI-10-500
10 GAUGE X 13/16	CI-10-1316
10 GAUGE X 1	CI-10-100
10 GAUGE X THRU	CI-10-T
12 GAUGE X 1/2	CI-10-500
12 GAUGE X 13/16	CI-10-1316
12 GAUGE X 1	CI-10-100
12 GAUGE X THRU	CI-10-T
14 GAUGE X 1/2	CI-14-500
14 GAUGE X 13/16	CI-14-1316
14 GAUGE X 1	CI-14-100



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TEMPLATE TUBE ADAPTORS

TEMPLATE TUBE ADAPTOR

TEMPLATE I.D.	PART NO
1" DIAMETER	TWTA100
1-1/4" DIAMETER	TWATA125
30MM DIAMETER	TWTA30



ERICO STYLE TEMPLATE TUBE ADAPTOR

TEMPLATE I.D.	PART NO
1" DIAMETER	9076
1-1/4" DIAMETER	9077



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 **MADE IN AMERICA**

ARC CHUCKS

ADJUSTABLE CHUCKS

STUD SIZE	PART NO
#2	AC086
#4	AC110
12 GAUGE	AC105
#5 & 1/8	AC125
10 GAUGE & #6	AC138
#8	AC164
3/16 & #10	AC190
.215	AC215
1/4	AC250
5/16	AC312
.330	AC330
3/8	AC375
7/16	AC437
1/2	AC500
9/16	AC562
5/8	AC625
.680	AC680
3/4	AC750
7/8	AC875
1	AC100
1-1/8	AC100-18
2MM	AC2MM
3MM	AC3MM
4MM	AC4MM
5MM	AC5MM
6MM	AC6MM
8MM	AC8MM
10MM	AC10MM
12MM	AC12MM
14MM	AC14MM
16MM	AC16MM
18MM	AC18MM
20MM	AC20MM



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ARC CHUCKS

LONG ADJUSTABLE CHUCKS (3-7/8" LONG)

STUD SIZE	PART NO
12 GAUGE	AC105L
#4	AC110L
#5	AC125L
10 GAUGE & #6	AC138L
#8	AC164L
3/16 & #10	AC190L
.215	AC215L
1/4	AC250L
5/16	AC312L
.330	AC330L
3/8	AC375L
7/16	AC437L
1/2	AC500L
9/16	AC562L
5/8	AC625L
.680	AC680L
3/4	AC750L
7/8	AC875L
4MM	AC4MML
5MM	AC5MML
6MM	AC6MML
8MM	AC8MML
10MM	AC10MML
12MM	AC12MML
14MM	AC14MML
16MM	AC16MML
18MM	AC18MML
20MM	AC20MML



HANLON STUD WELDING

1157 PAGNI DRIVE

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ARC CHUCKS

EXTRA LONG ADJUSTABLE CHUCKS (4-3/4" LONG)

STUD SIZE	PART NO
12 GAUGE	AC105XL
#4	AC110XL
#5	AC125XL
10 GAUGE & #6	AC138XL
#8	AC164XL
3/16 & #10	AC190XL
.215	AC215XL
1/4	AC250XL
5/16	AC312XL
.330	AC330XL
3/8	AC375XL
7/16	AC437XL
1/2	AC500XL
9/16	AC526XL
5/8	AC625XL
.680	AC680XL
3/4	AC750XL
7/8	AC875XL
4MM	AC4MMXL
5MM	AC5MMXL
6MM	AC6MMXL
8MM	AC8MMXL
10MM	AC10MMXL
12MM	AC12MMXL
16MM	AC16MMXL
18MM	AC18MMXL
20MM	AC20MMXL



KEYHOLE CHUCKS

SIZE	PART NO
7/16	ACKEY716



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ARC CHUCKS

RECTANGULAR CHUCKS

STUD SIZE	PART NO
1/8 X 1/4	ACR1814
1/8 X 3/8	ACR1838
1/8 X 5/8	ACR1858
1/8 X 7/8	ACR1878
1/8 X 1	ACR181
1/4 X 3/4	ACR1434
1/4 X 1-1/4 (BRASS)	ACR14115



Y ANCHOR CHUCKS

ANCHOR SIZE	PART NO
3/16	ACY187
1/4	ACY250
5/16	ACY312



MALE CHUCKS

HOLE SIZE	PART NO
8-32	ACM8-32
10-24	ACM10-24
10-32	ACM10-32
1/4-20	ACM1250-20
5/16-18	ACM312-18
3/8-16	ACM375-16
1/2-13	ACM500-13
5/8-11	ACM675-11
3/4-10	ACM750-10
1/4	ACM250
3/8	ACM375
1/2	ACM500
5/8	ACM625

BENT STUD CHUCKS

STUD SIZE	BEND	PART NO
1/4	90 DEGREES	ACB250-90
1/4	45 DEGREES	ACB250-45
3/8	90 DEGREES	ACB375-90
3/8	45 DEGREES	ACB375-45
1/2	90 DEGREES	ACB500-90
1/2	45 DEGREES	ACB500-45
5/8	90 DEGREES	ACB625-90
5/8	45 DEGREES	ACB625-45
3/4	90 DEGREES	ACB750-90
3/4	45 DEGREES	ACB750-45
7/8	90 DEGREES	ACB875-90
7/8	45 DEGREES	ACB875-45



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ARC CHUCKS FOR HEADED CONCRETE ANCHORS AND SHEAR CONNECTORS

3/8 DIA HEADED ANCHOR CHUCK (3/4 DIA HEAD)

PART NO	DESCRIPTION
HC375	COMPLETE ASSEMBLY - TAPERED STYLE
HC375-S	COMPLETE ASSEMBLY - SCREW STYLE
HC375T	TINE ONLY



1/2 DIA HEADED ANCHOR CHUCK (1 DIA HEAD)

PART NO	DESCRIPTION
HC500	COMPLETE ASSEMBLY - TAPERED STYLE
HC500-S	COMPLETE ASSEMBLY - SCREW STYLE
HC500T	TINE ONLY



5/8 & 3/4 DIA HEADED ANCHOR CHUCK (1-1/4 DIA HEAD)

PART NO	DESCRIPTION
HC750	COMPLETE ASSEMBLY
HC750T	TINE ONLY



7/8 DIA HEADED ANCHOR CHUCK (1-3/8 DIA HEAD)

PART NO	DESCRIPTION
HC875	COMPLETE ASSEMBLY
HC875T	TINE ONLY



1 DIA HEADED ANCHOR CHUCK (1-5/8 DIA HEAD)

PART NO	DESCRIPTION
HC100	COMPLETE ASSEMBLY
HC100T	TINE ONLY



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FERRULE GRIPS

CLOSED FERRULE GRIP (1" LONG) BRASS

STUD SIZE	FOOT SIZE	GRIP DIA	PART NO
#2	SMALL		FG086
#4	SMALL		FG112
12 GAUGE	SMALL		FG112
#5	SMALL		FG125
10 GAUGE	SMALL		FG138
#6	SMALL	.281	FG138
#8	SMALL	.291	FG164
3/16 & #10	SMALL	.305	FG187
.215	SMALL		FG215
1/4	SMALL	.380	FG250
5/16	SMALL	.445	FG312
.330	SMALL		FG330
1/4	SMALL	.380	FG250
5/16	SMALL	.445	FG312
3/8	SMALL	.505	FG375
7/16	SMALL	.585	FG437
1/2	SMALL	.650	FG500
9/16"			FG562
5/8	MEDIUM	.785	FG625
.680	MEDIUM		FG680
3/4	MEDIUM	1.030	FG750
7/8	LARGE	1.203	FG875
1	LARGE	1.406	FG100
2MM	SMALL		FG2MM
3MM	SMALL		FG3MM
4MM	SMALL		FG4MM
5MM	SMALL		FG5MM
6MM	SMALL		FG6MM
7MM	SMALL		FG7MM
8MM	SMALL		FG8MM
10MM	SMALL		FG10MM
12MM	SMALL		FG12MM
14MM	SMALL		FG14MM
16MM	MEDIUM		FG16MM
18MM	MEDIUM		FG18MM
20MM	LARGE		FG20MM



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FERRULE GRIPS

SPLIT FERRULE GRIP (1" LONG) BRASS

STUD SIZE	FOOT SIZE	GRIP DIA	PART NO
#2	SMALL		FG086-S
#4	SMALL		FG112-S
12 GAUGE	SMALL		FG125-S
#5	SMALL		FG125-S
10 GAUGE	SMALL		FG138-S
#6	SMALL	.281	FG138-S
#8	SMALL	.291	FG164-S
3/16 & #10	SMALL	.305	FG190-S
.215	SMALL		FG215-S
1/4	SMALL	.380	FG250-S
5/16	SMALL	.445	FG312-S
.330	SMALL		FG330-S
3/8	SMALL	.505	FG375-S
7/16	SMALL	.585	FG437-S
1/2	SMALL	.650	FG500-S
9/16			FG562-S
5/8	MEDIUM	.785	FG625-S
.680	MEDIUM		FG680-S
3/4	MEDIUM	1.030	FG750-S
7/8	LARGE	1.203	FG875-S
1	LARGE	1.406	FG100-S
2MM	SMALL		FG2MM-S
3MM	SMALL		FG3MM-S
4MM	SMALL		FG4MM-S
5MM	SMALL		FG5MM-S
6MM	SMALL		FG6MM-S
7MM	SMALL		FG7MM-S
8MM	SMALL		FG8MM-S
10MM	SMALL		FG10MM-S
12MM	SMALL		FG12MM-S
14MM	SMALL		FG14MM-S
16MM	MEDIUM		FG16MM-S
18MM	MEDIUM		FG18MM-S
20MM	LARGE		FG20MM-S



HANLON STUD WELDING

1157 PAGNI DRIVE

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FERRULE GRIPS

LONG CLOSED FERRULE GRIP (2" LONG) BRASS

STUD SIZE	FOOT SIZE	GRIP DIA	PART NO
#2	SMALL		FG086-L
#4	SMALL		FG112-L
12 GAUGE	SMALL		FG112-L
#5 & 1/8	SMALL		FG125-L
10 GAUGE	SMALL		FG138-L
#6	SMALL	.281	FG138-L
#8	SMALL	.291	FG164-L
3/16 & #10	SMALL	.305	FG190-L
.215	SMALL		FG215-L
1/4	SMALL	.380	FG250-L
5/16	SMALL	.445	FG312-L
.330	SMALL		FG330-L
3/8	SMALL	.505	FG375-L
7/16	SMALL	.585	FG437-L
1/2	SMALL	.650	FG500-L
9/16			FG562-L
5/8	MEDIUM	.785	FG625-L
.680	MEDIUM		FG680-L
3/4	MEDIUM	1.030	FG750-L
7/8	LARGE	1.203	FG875-L
1	LARGE	1.406	FG100-L
2MM	SMALL		FG2MM-L
3MM	SMALL		FG3MM-L
4MM	SMALL		FG4MM-L
5MM	SMALL		FG5MM-L
6MM	SMALL		FG6MM-L
7MM	SMALL		FG7MM-L
8MM	SMALL		FG8MM-L
10MM	SMALL		FG10MM-L
12MM	SMALL		FG12MM-L
14MM	SMALL		FG14MM-L
16MM	MEDIUM		FG16MM-L
18MM	MEDIUM		FG18MM-L
20MM	LARGE		FG20MM-L



HANLON STUD WELDING

1157 PAGNI DRIVE

ELK GROVE VILLAGE, IL 60007

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www.hanlonstudwelding.com

FERRULE GRIPS

LONG SPLIT FERRULE GRIP (2" LONG) BRASS

STUD SIZE	FOOT SIZE	GRIP DIA	PART NO
#2	SMALL		FG086-LS
#4	SMALL		FG112-LS
12 GAUGE	SMALL		FG112-LS
#5 & 1/8	SMALL		FG125-LS
10 GAUGE	SMALL		FG138-LS
#6	SMALL	.281	FG138-LS
#8	SMALL	.291	FG164-LS
3/16 & #10	SMALL	.305	FG190-LS
.215	SMALL		FG215-LS
1/4	SMALL	.380	FG250-LS
5/16	SMALL	.445	FG312-LS
.330	SMALL		FG330-LS
3/8	SMALL	.505	FG375-LS
7/16	SMALL	.585	FG437-LS
1/2	SMALL	.650	FG500-LS
9/16			FG562-LS
5/8	MEDIUM	.785	FG625-LS
.680	MEDIUM		FG680-LS
3/4	MEDIUM	1.030	FG750-LS
7/8	LARGE	1.203	FG875-LS
1	LARGE	1.406	FG100-LS
2MM	SMALL		FG2MM-LS
3MM	SMALL		FG3MM-LS
4MM	SMALL		FG4MM-LS
5MM	SMALL		FG5MM-LS
6MM	SMALL		FG6MM-LS
7MM	SMALL		FG7MM-LS
8MM	SMALL		FG8MM-LS
10MM	SMALL		FG10MM-LS
12MM	SMALL		FG12MM-LS
14MM	SMALL		FG14MM-LS
16MM	MEDIUM		FG16MM-LS
18MM	MEDIUM		FG18MM-LS
20MM	LARGE		FG20MM-LS



HANLON STUD WELDING

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FERRULE GRIPS

EXTRA LONG FERRULE GRIP (3" LONG) BRASS

STUD SIZE	FOOT SIZE	GRIP DIA	PART NO
#2	SMALL		FG086-L
#4	SMALL		FG112-L
12 GAUGE	SMALL		FG112-L
#5 & 1/8	SMALL		FG125-L
10 GAUGE	SMALL		FG138-L
#6	SMALL	.281	FG138-L
#8	SMALL	.291	FG164-L
3/16 & #10	SMALL	.305	FG190-L
.215	SMALL		FG215-L
1/4	SMALL	.380	FG250-L
5/16	SMALL	.445	FG312-L
.330	SMALL		FG330-L
3/8	SMALL	.505	FG375-L
7/16	SMALL	.585	FG437-L
1/2	SMALL	.650	FG500-L
2MM	SMALL		FG2MM-L
4MM	SMALL		FG4MM-L
5MM	SMALL		FG5MM-L
6MM	SMALL		FG6MM-L
8MM	SMALL		FG8MM-L
10MM	SMALL		FG10MM-L
12MM	SMALL		FG12MM-L



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WELD THRU DECK

FOR HEADED CONCRETE ANCHORS
AND SHEAR CONNECTORS

WELD THRU DECK FOOT ASSEMBLY

PART NO	DESCRIPTION
WT DFA	FOOT ASSEMBLY
WT DF	FOOT
WT DEX	EXTENSION BAR



WELD THRU DECK FERRULE GRIP

PART NO	DESCRIPTION
WTDFG500	1/2 FLAT
WTDFG625	5/8 FLAT & 1/2 WTD
WTDFG750	3/4 FLAT
WTDFG875	7/8 FLAT & 3/4 WTD
WTDFG100	1" FLAT & 7/8 WTD



HEAVY DUTY FERRULE GRIP

PART NO	STUD DIA
FGHD500	1/2
FGHD625	5/8
FGHD750	3/4
FGHD875	7/8
FGHD100	1



HANLON STUD WELDING

1157 PAGNI DRIVE

ELK GROVE VILLAGE, IL 60007

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FEET

STANDARD ARC FEET

PART NO	DESCRIPTION
AFSC	SMALL - CLOSED
AFSS	SMALL - SPLIT
AFMC	MEDIUM - CLOSED
AFMS	MEDIUM - SPLIT
AFLC	LARGE - CLOSED
AFLS	LARGE - SPLIT

For use with Proweld, Tru-Weld, Midwest Fasteners, Image, Erico and Nelson NS20 stud welding guns.

- Small: Stud Size $\frac{1}{8}$ " - $\frac{1}{2}$ "
- Medium: Stud Size $\frac{5}{8}$ " - $\frac{3}{4}$ "
- Large: Stud Size $\frac{7}{8}$ " - 1"



AFSC



AFMC



AFLC



AFSS



AFMC



AFMC



HANLON STUD WELDING

1157 PAGNI DRIVE

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FEET

BIPOD ARC FEET

PART NO	DESCRIPTION
BFSC	SMALL - CLOSED
BFSS	SMALL - SPLIT
BFMC	MEDIUM - CLOSED
BFMS	MEDIUM - SPLIT
BFLC	LARGE - CLOSED
BFLS	LARGE - SPLIT

For use with Proweld, Tru-Weld, Midwest Fasteners, Image, Erico and Nelson NS20 stud welding guns.

- Small: Stud Size $\frac{1}{8}$ " - $\frac{1}{2}$ "
- Medium: Stud Size $\frac{5}{8}$ " - $\frac{3}{4}$ "
- Large: Stud Size $\frac{7}{8}$ " - 1"



BFSC



BFMC



BFLC



BFSS



BFMS



BFLS



HANLON STUD WELDING

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FEET

NELSON FEET

PART NO	DESCRIPTION
NS30/40-SC	SMALL - CLOSED
NS30/40-BSC	SMALL - CLOSED - BIPOD
NS30/40-SS	SMALL - SPLIT
NS30/40-MC	MEDIUM - CLOSED
NS30/40-BSC	MEDIUM - CLOSED - BIPOD
NS30/40-MS	MEDIUM - SPLIT

For use with Nelson NS30/40 stud welding guns.

- Small: Stud Size $\frac{1}{8}$ " - $\frac{1}{2}$ "
- Medium: Stud Size $\frac{5}{8}$ " - $\frac{3}{4}$ "



NS30/40-SC



NS30/40-BSC



NS30/40-SS



NS30/40-MC



NS30/40-BMC



NS30/40-MS

QUAD FOOT

PART NO	DESCRIPTION
QFS	SMALL
QFM	MEDIUM
QFL	LARGE



HANLON STUD WELDING

1157 PAGNI DRIVE

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LEGS

ARC GUN LEG 3/8" DIAMETER

PART NO	LENGTH
AL38-7	7"
AL38-9	9"
AL38-12	12"
AL38-14	14"
AL38-18	18"
AL38-24	24"
AL38-27	27"
AL38-32	32"
AL38-36	36"
AL38-45	45"
AL38-48	48"

For use with Proweld, Tru-Weld, Midwest Fasteners, Nelson NS20, Image and Erico stud welding guns.



ARC GUN LEG 5/16" DIAMETER

PART NO	LENGTH
AL38-7	7"
AL38-9	9"
AL38-12	12"
AL38-14	14"
AL38-18	18"
AL38-24	24"
AL38-27	27"
AL38-32	32"
AL38-36	36"
AL38-48	48"

For use with Nelson 30/40 and European manufacturer stud welding guns.



HANLON STUD WELDING

1157 PAGNI DRIVE

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FOOT PLATES

TWIN LEG FERRULE FOOT PLATE

STUD SIZE	PART NO
3/16	FFP187
1/4	FFP250
5/16	FFP312
3/8	FFP375
1/2	FFP500
5/8	FFP625
3/4	FFP750
7/8	FFP875
1	FFP100



SINGLE LEG FERRULE FOOT PLATE

STUD SIZE	PART NO
3/16	FFP187S
1/4	FFP250S
5/16	FFP312S
3/8	FFP375S
1/2	FFP500S
5/8	FFP625S
3/4	FFP750S
7/8	FFP875S
1	FFP100S



REFRACTORY FOOT PLATE FOR Y ANCHORS

STUD SIZE	PART NO
3/16	RFF187
1/4	RFF250
5/16	RFF312



HANLON STUD WELDING

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ADAPTORS

ARC GUN CONNECTOR STUD 1/2-20

PART NO

AGCS



ARC GUN CHUCK ADAPTOR

PART NO

AGCA



ARC GUN CHUCK ADAPTOR - PROWELD

PART NO

AGCAPW



ARC GUN CHUCK ADAPTOR - IMAGE

PART NO

IM-GAM12



ARC GUN CHUCK ADAPTOR - Tru-Weld

PART NO

TWE033-505LD



HANLON STUD WELDING

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PSR

PSR SIDE LOAD ASSEMBLY

STUD SIZE	BRACKET	PART NO
3/8	SHORT	PSR375S
3/8	LONG	PSR375L
1/2	SHORT	PSR500S
1/2	LONG	PSR500L
1/2	EXTRA LONG	PSR500XL
5/8	SHORT	PSR625S
5/8	LONG	PSR625L
5/8	EXTRA LONG	PSR625XL
3/4	SHORT	PSR750S
3/4	LONG	PSR750L
3/4	EXTRA LONG	PSR750EX
7/8	EXTRA LONG	PSR875EX



LEG WIDENER

TYPE	PART NO
MID-LEG	LWMID
AT GUN	LWGUN



HANLON STUD WELDING

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SPECIAL

FERRULE TUBING

STUD SIZE	PART NO	I.D.	O.D.	LENGTH
#8	FT164	.291	.360	36"
#10	FT190	.305	.375	36"
1/4	FT250	.380	.500	36"
5/16	FT312	.445	.562	36"
3/8	FT375	.505	.625	36"
7/16	FT437	.585	.687	36"
1/2	FT500	.650	.750	36"
5/8	FT625	.785	.906	36"
3/4	FT750	1.030	1.156	36"



FERRULE TUBE BUSHING

STUD SIZE	PART NO	I.D.	O.D.
#8	FTB164	.360	.875
#10	FTB190	.375	.875
1/4	FTB250	.500	.875
5/16	FTB312	.562	.875
3/8	FTB375	.625	.875
7/16	FTB437	.687	.875
1/2	FTB500	.750	.875
5/8	FTB625	.906	1.156
3/4	USE MEDIUM FOOT		



HANLON STUD WELDING

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 **MADE IN AMERICA**

WELD CABLE CONNECTORS

HEAVY DUTY HI TEMP CAMLOK MALE 4/0

PART NO

HDCCM



HEAVY DUTY HI TEMP CAMLOK FEMALE 4/0

PART NO

HDCCF



LIGHT DUTY CAMLOK MALE #4

PART NO

LDCCM



LIGHT DUTY CAMLOK FEMALE #4 & 1/0

PART NO

LDCCF



SMALL CAMLOK PANEL MOUNT

PART NO

SCLPM



CAMLOK FEMALE PANEL MOUNT

PART NO

CLPMF



HANLON STUD WELDING

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WELD CABLE CONNECTORS

DINSE #4 MALE

PART NO

DIXSKM25



DINSE 1/0 MALE

PART NO

DIXBK50



DINSE 1/0 FEMALE

PART NO

DIXSK50



DINSE 4/0 MALE

PART NO

DIXBKS120



DINSE 4/0 FEMALE

PART NO

DIXSKS120



HANLON STUD WELDING

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CONTROL CABLE CONNECTORS

R & S CONNECTORS

DESCRIPTION	PART NO
MALE	CCRSM
FEMALE	CCRSF
PANEL MOUNT	CCRSPM



HUBBELL STYLE CONNECTORS

DESCRIPTION	PART NO
HUBBELL MALE	CCHU-M
HUBBELL FEMALE	CCHU-F
HUBBELL PANEL MOUNT	CCHU-P
HUBBELL PANEL MOUNT NYLON	CCHU-P-N
RUBBER COVER MALE	CC2WC-M
RUBBER COVER FEMALE	CC2WC-F



HUBBELL STYLE CONNECTORS FOR NELSON

DESCRIPTION	PART NO
2 WIRE MALE	CCHU2W-M
2 WIRE FEMALE	CCHU2W-F
2 WIRE PANEL MOUNT	CCHU2W-PM
RUBBER COVER MALE	CC2WC-M
RUBBER COVER FEMALE	CC2WC-F



PHOENIX CONNECTORS

DESCRIPTION	PART NO
MALE	CCPHM
FEMALE	CCPHF
PANEL MOUNT	CCPHPM



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1/0 GUN EXTENSION CABLE SETS

1/0 GUN EXTENSION SET WITH CAMLOK & PHOENIX CONNECTORS

DESCRIPTION	PART NO
25 FEET	GUEX251OCP
50 FEET	GUEX501OCP
75 FEET	GUEX751OCP
100 FEET	GUEX1001OCP



1/0 GUN EXTENSION SET FOR NELSON

DESCRIPTION	PART NO
25 FEET	GUEX251ONEL
50 FEET	GUEX501ONEL
75 FEET	GUEX751ONEL
100 FEET	GUEX1001ONEL



HANLON STUD WELDING

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4/O GUN EXTENSION CABLE SETS

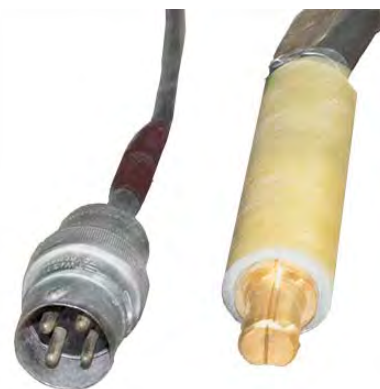
4/O GUN EXTENSION SET WITH CAMLOK & PHOENIX CONNECTORS

DESCRIPTION	PART NO
25 FEET	GUEX254OCP
50 FEET	GUEX504OCP
75 FEET	GUEX754OCP
100 FEET	GUEX1004OCP



4/O GUN EXTENSION SET WITH CAMLOK & R&S CONNECTORS

DESCRIPTION	PART NO
25 FEET	GUEX254ORS
50 FEET	GUEX504ORS
75 FEET	GUEX754ORS
100 FEET	GUEX1004ORS



4/O GUN EXTENSION SET WITH CAMLOK & R&S CONNECTORS

DESCRIPTION	PART NO
25 FEET	GUEX254ORS
50 FEET	GUEX504ORS
75 FEET	GUEX754ORS
100 FEET	GUEX1004ORS



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GROUND CLAMPS

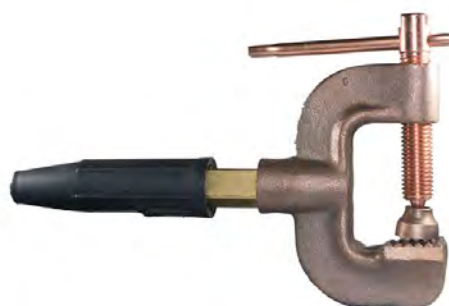
STANDARD GROUND CLAMP

DESCRIPTION	PART NO
STANDARD GROUND CLAMP	SGC



LENCO GROUND CLAMP

SIZE	PART NO
SMALL	LGCS
LARGE	LGCL



CUSTOM VISE GRIP GROUND CLAMP

SIZE	PART NO
6"	VG6
11"	VG11



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CABLE LUGS & TOOLS

WELD CABLE LUGS

WELD CABLE	STUD SIZE	PART NO
#4	#10	CL410
#4	1/4	CL414
#4	3/8	CL438
#4	5/16	CL4516
1/O	1/2	CL1012
1/O	3/8	CL1038
4/O	1/2	CL4012
4/O	3/8	CL4038



TOOLS

DESCRIPTION	PART NO
CHUCK EJECTOR KEY	CEK
ALLEN WRENCH SET	ALLN
ALLEN WRNCH SET METRIC	ALLN



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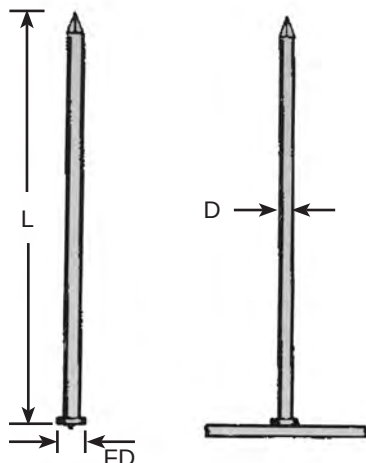
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 **MADE IN AMERICA**

CAPACITOR DISCHARGE (CD)

SPECIFICATIONS



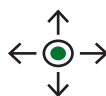
SIZE	D	STEEL FD	ALUM FD
14GA	.080	.160	
12GA	.105	.180	.230
3MM	.118	.190	
10GA	.135	.195	.250

APPLICATION: This is the standard weld pin used for most applications.



**LOW
CARBON STEEL**

C - 0.23% Max P - 0.04% Max
Mn - 0.90% Max S - 0.05% Max
Tensile: 60,000 psi (min)
Yield: 50,000 psi (min)
Elongation: 20% (in 2 inches)



PLATING

Galvanized and copper plating are available for low carbon steel.



**STAINLESS
STEEL**

AISI Grade - 302/304/305 standard
Other grades available by request.
Mechanical properties available by request.



ANNEALING

Pins are annealed where required.



ALUMINUM

Alloy 1110-H14 standard.
Other alloys available by request.
Mechanical properties available by request.



WASHERS

Self-locking washers are available in a variety of sizes, shapes, and materials.



HANLON STUD WELDING

1157 PAGNI DRIVE

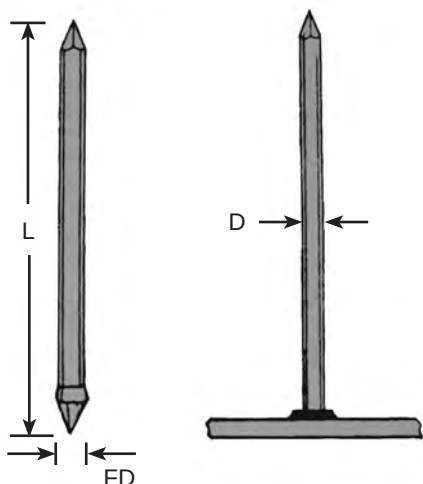
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POWER TIP/POWER BASE (CD)

SPECIFICATIONS



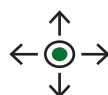
SIZE	D	L	FD
12GA	.105	AS REQUIRED	.171
10GA	.135	AS REQUIRED	.187

APPLICATION: Ideally suited for welding to surfaces covered with mill scale, rust, or paint without costly preparation.



**LOW
CARBON STEEL**

C - 0.23% Max P - 0.04% Max
Mn - 0.90% Max S - 0.05% Max
Tensile: 60,000 psi (min)
Yield: 50,000 psi (min)
Elongation: 20% (in 2 inches)



PLATING

Galvanized and copper plating are available for low carbon steel.



**STAINLESS
STEEL**

AISI Grade - 302/304/305 standard
Other grades available by request.
Mechanical properties available by request.



ANNEALING

Can be annealed if required.



WASHERS

Self-locking washers are available in a variety of sizes, shapes, and materials.



HANLON STUD WELDING

1157 PAGNI DRIVE

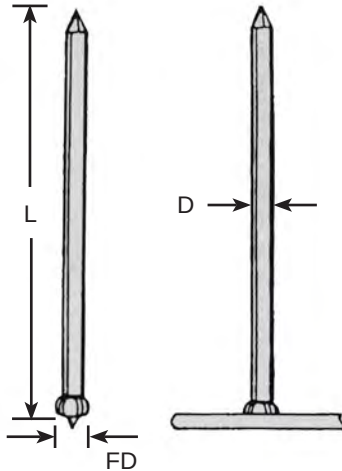
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SURE-FIRE (CD)

SPECIFICATIONS

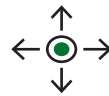


SIZE	D	L	FD
12GA	.105	AS REQUIRED	.175
10GA	.135	AS REQUIRED	.195

APPLICATION: Ideally suited for welding to surfaces covered with mill scale, rust, or paint without costly preparation.



C - 0.23% Max P - 0.04% Max
Mn - 0.90% Max S - 0.05% Max
Tensile: 60,000 psi (min)
Yield: 50,000 psi (min)
Elongation: 20% (in 2 inches)



Galvanized and copper plating are available for low carbon steel.

PLATING



AISI Grade - 302/304/305 standard
Other grades available by request.
Mechanical properties available by request.



Can be annealed if required.



WASHERS

Self-locking washers are available in a variety of sizes, shapes, and materials.



HANLON STUD WELDING

1157 PAGNI DRIVE

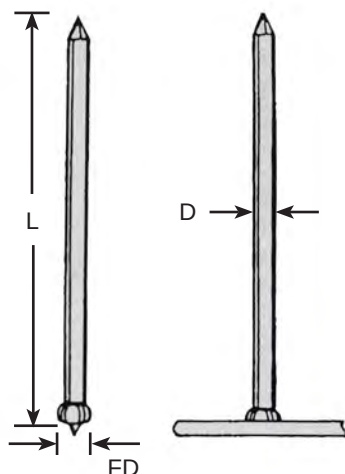
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CONICAL TIP (CD)

SPECIFICATIONS



SIZE	D	L	FD
12GA	.105	AS REQUIRED	.220
10GA	.135	AS REQUIRED	.250

APPLICATION: Ideally suited for welding with production Stud Welding systems and for **STUCCO** embossed panels.



MATERIAL

Aluminum
Alloy 1100-H14
Other alloys available upon request.



MECHANICAL PROPERTIES

Available by request.



WASHERS

Self-locking washers are available in a variety of sizes, shapes, and materials.

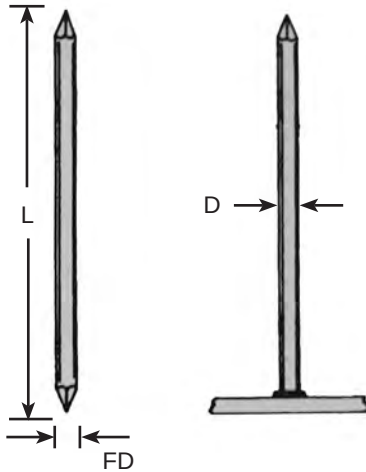


HANLON STUD WELDING

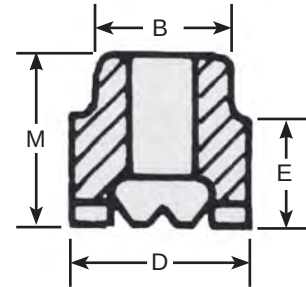
1157 PAGNI DRIVE
ELK GROVE VILLAGE, IL 60007
PHONE: 847-228-1990 • Toll Free: 1-800-HANLONS (426-5667) • FAX: 847.228.1995
www.hanlonstudwelding.com

DOUBLE POINTED (ARC)

SPECIFICATIONS



SIZE	D	L
10GA	.135	AS REQUIRED



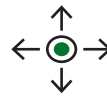
B	D	E	M
.281	.375	.145	.390

APPLICATION: This is the standard weld pin used when only arc stud welding equipment is available.



**LOW
CARBON STEEL**

C - 0.23% Max P - 0.04% Max
Mn - 0.90% Max S - 0.05% Max
Tensile: 60,000 psi (min)
50,000 psi (min): Request
Elongation: 20% (in 2 inches)



PLATING

Galvanized and copper plating are available for low carbon steel.



**STAINLESS
STEEL**

AISI Grade - 302/304/305 standard
Other grades available by request.
Mechanical properties available by request.



ANNEALING

Can be annealed if required.



FERRULES

Orders include required ferrules.



WASHERS

Self-locking washers are available in a variety of sizes, shapes, and materials.



HANLON STUD WELDING

1157 PAGNI DRIVE

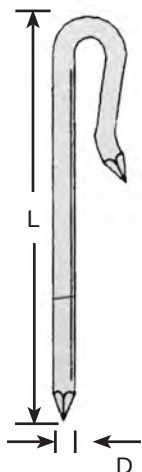
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"J" HOOK

SPECIFICATIONS



SIZE	D	L
10GA	.135	AS REQUIRED

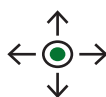
Other diameters available by special order.

APPLICATION: This is the standard insulation fastener used to secure insulation to wire road mesh.



**LOW
CARBON STEEL**

C - 0.23% Max P - 0.04% Max
Mn - 0.90% Max S - 0.05% Max
Tensile: 60,000 psi (min)
Yield: 50,000 psi (min)
Elongation: 20% (in 2 inches)



PLATING

Galvanized and copper plating are available for low carbon steel.



**STAINLESS
STEEL**

AISI Grade - 302/304/305 standard
Other grades available by request.
Mechanical properties available by request.



ANNEALING

Can be annealed if required.



WASHERS

Self-locking washers are available in a variety of sizes, shapes, and materials.



HANLON STUD WELDING

1157 PAGNI DRIVE

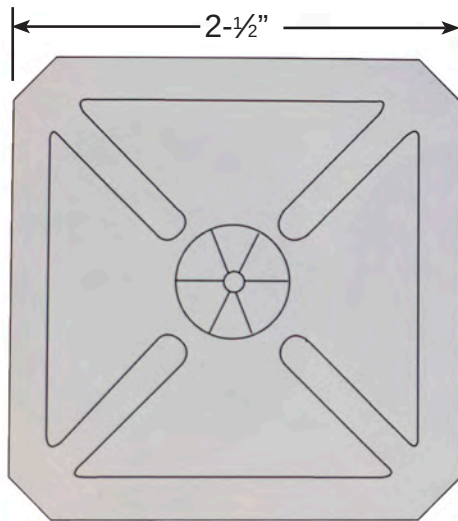
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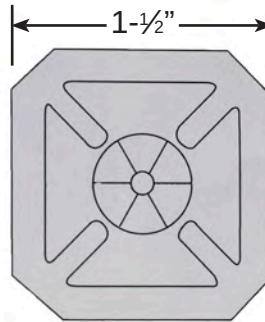
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WASHER SQUARE

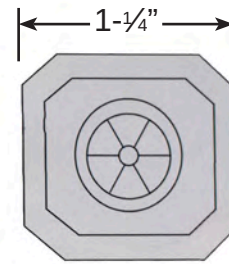
SPECIFICATIONS



WA 250



WA 150



WA 125

APPLICATION: Self-locking washers are used in conjunction with weld pins, insulation anchors, and lacing anchors to fasten insulation in place. Simply press the self-locking washer onto the pin up to the insulation until the desired position is reached. Then, clip off or bend over the remaining portion of the pin for a permanent attachment.



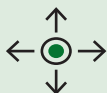
Mild Steel
Stainless Steel
Aluminum

MATERIAL



Available in 10 gauge, 12 gauge or 14 gauge hole sizes.

DIAMETER



Galvanized coating is standard.

PLATING



Washer edge is beveled to prevent cutting of insulation material.

EDGE



.015 Nominal

THICKNESS



Other material/plating combinations and hole sizes are available by special order.

SPECIAL ORDER



HANLON STUD WELDING

1157 PAGNI DRIVE

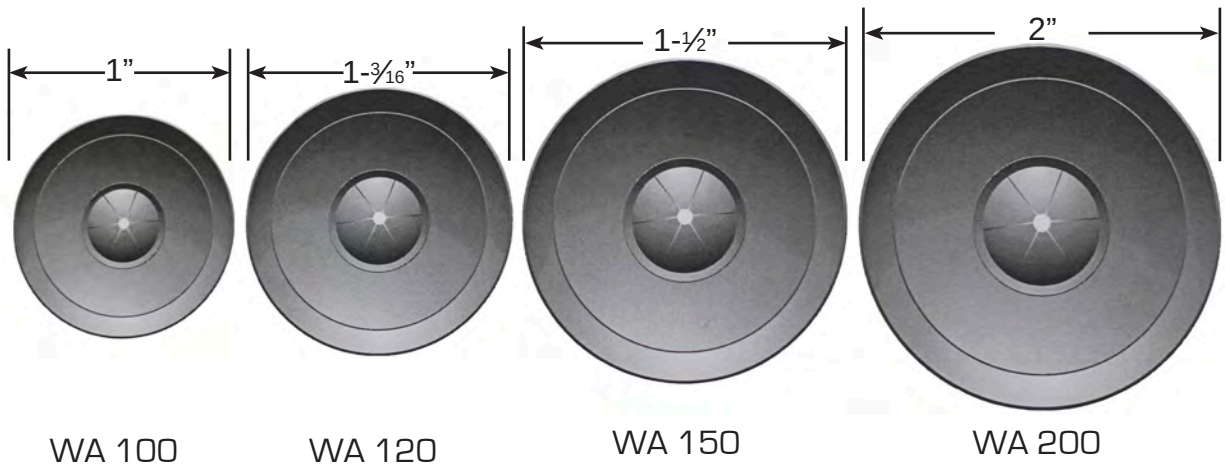
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WASHER ROUND

SPECIFICATIONS



APPLICATION: Self-locking washers are used in conjunction with weld pins, insulation anchors, and lacing anchors to fasten insulation in place. Simply press the self-locking washer onto the pin up to the insulation until the desired position is reached. Then, clip off or bend over the remaining portion of the pin for a permanent attachment.



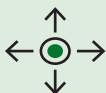
Mild Steel
Stainless Steel
Aluminum

MATERIAL



Available in 10 gauge, 12 gauge or 14 gauge hole sizes.

DIAMETER



Galvanized coating is standard.

PLATING



Washer edge is beveled to prevent cutting of insulation material.

EDGE



.015 Nom.

THICKNESS



Other material/plating combinations and hole sizes are available by special order.

SPECIAL ORDER



HANLON STUD WELDING

1157 PAGNI DRIVE

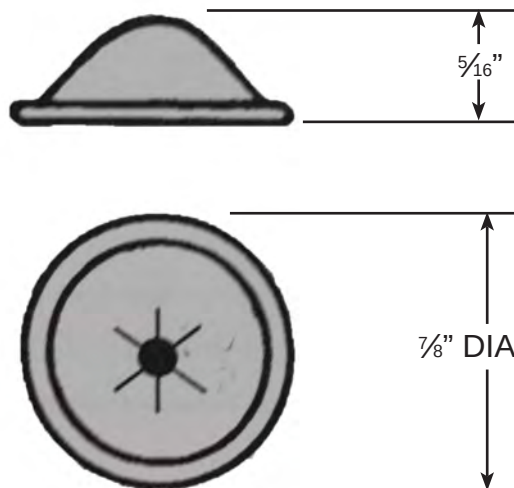
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CAPPED SPEED WASHER

SPECIFICATIONS



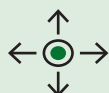
APPLICATION: Designed to permanently lock on to weld pins or insul-anchors where appearance is a major factor, or where you sharp points or edges are permissible on the surface.



Decorative Domed Cap: Aluminum
Self-Locking Insert: Hardened Steel



Available in 10 gauge, 12 gauge or 14 gauge and 3mm hole sizes.



Available in plain (bright aluminum) or white.



Other painted colors are available by special order.



HANLON STUD WELDING

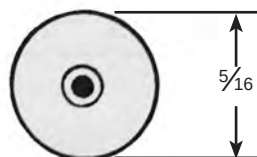
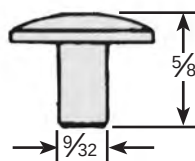
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ANNULAR RING CAP



Designed to permanently lock on to Navy annular ring studs

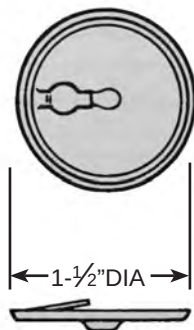


For $\frac{3}{16}$ " diameter studs



Aluminum or Mild Steel

KEY HOLE SLOTTED WASHER



Designed to lock on Navy notched end studs



For $\frac{3}{16}$ " diameter notched end studs



Mild Steel - Galvanized

FLAT WASHERS & HEX NUTS

These "accessory" items can be ordered with Threaded Weld Studs for general application and to meet Military Specifications where required.



HANLON STUD WELDING

1157 PAGNI DRIVE

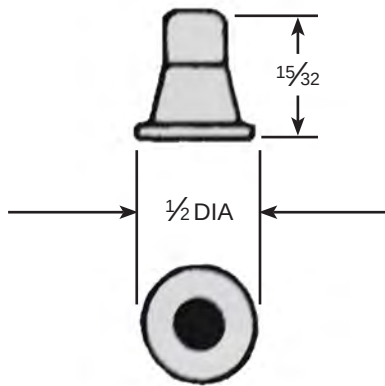
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PANEL CAPS AND NUTS

ANNUAL GROOVE CAP



Designed to permanently lock on to annular groove shoulder studs to hold the panel in place against the stud shoulder.



For $\frac{3}{16}$ diameter groove shoulder studs

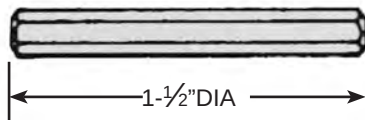
SIZE



Aluminum

MATERIAL

CAP SETTING TOOL



This tool is recommended for installing the Annular Groove Cap (above).

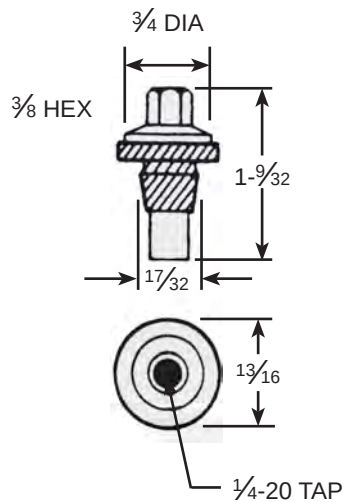
APPLICATION



One size shown

SIZE

PANEL NUT



Designed to be threaded down through pre-drilled holes in the panel onto pre-welded studs providing firm, water resistant attachment.

APPLICATION



For $\frac{1}{4}$ -20 threaded studs

SIZE



Aluminum & Neoprene Rubber

MATERIAL



HANLON STUD WELDING

1157 PAGNI DRIVE

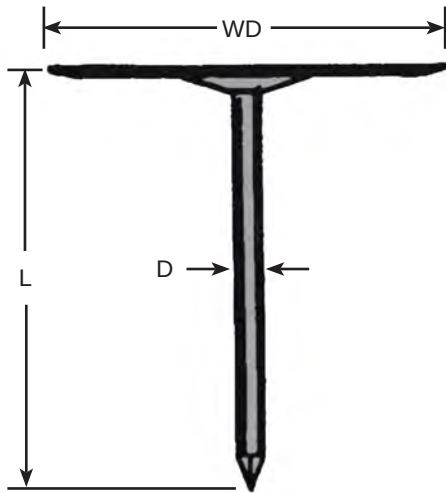
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CUP HEAD PIN_(CS)

PIN AND WASHER SPECIFICATIONS



TYPE	D	WD	MIN L	MAX L
CS12	.105	1.187	$\frac{3}{8}$	16"
CS14	.080	1.187	$\frac{3}{16}$	16"
CL12	.105	1.500	$\frac{3}{8}$	16"

APPLICATION: Cup Head Pins are labor saving fasteners used in the thermal and acoustical insulation markets. They can be applied quickly and easily using standard capacitor discharge (CD) stud welding equipment.



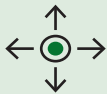
MATERIAL

Low carbon steel:
 C - 0.23% Max P - 0.04% Max
 Mn - 0.90% Max S - 0.05% Max
 Stainless steel: Available by special order



EDGE

Washer edge is beveled to prevent cutting of insulation material.



PLATING

Galvanized coating is standard on the pin and washer. Copper plating is available for the pin by special request.



WASHERS

Paper insulating washers are available for welding through foil faced insulation.



MECHANICAL PROPERTIES

Available upon request.



HANLON STUD WELDING

1157 PAGNI DRIVE

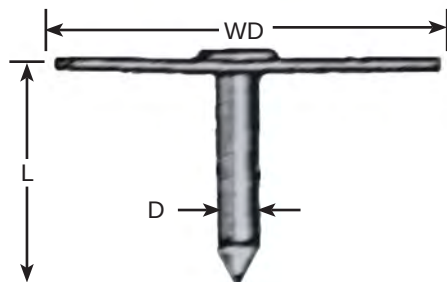
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RESISTANCE WELD PIN_(RW)

PIN AND WASHER SPECIFICATIONS



TYPE	D	WD	MIN L	MAX L
CM10	.135	1.000	3/8	NO MAX

APPLICATION: This cup head pin is for use with Duro-Dyne or Grip Nail equipment for duct liner applications.

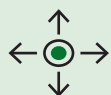


Low Carbon Steel:
C - 0.23% Max P - 0.04% Max
Mn - 0.90% Max S - 0.05% Max
Stainless Steel: Available by special order



EDGE

Washer edge is beveled to prevent cutting of insulation material. Flat washer style also is available standard. Both styles are auto-feed quality.



PLATING

Galvanized coating is standard on the pin and washer. Copper plating is available for the pin by special request.



MECHANICAL PROPERTIES

Available upon request.



HANLON STUD WELDING

1157 PAGNI DRIVE

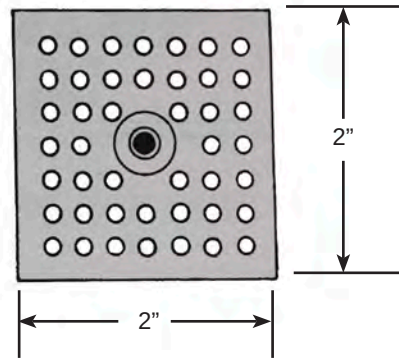
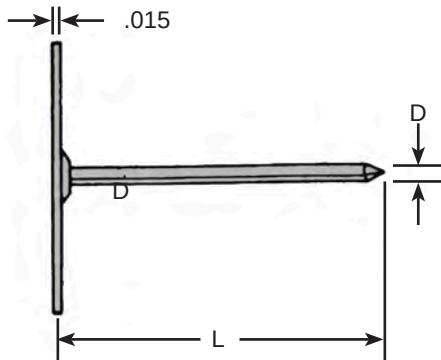
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SPINDLE/PERFORATED BASE (IASP)

PIN AND PLATE SPECIFICATIONS



APPLICATION: Spindles simplify the permanent installation of insulation to porous construction surfaces and non-weldable materials. They can be applied quickly and easily using only a putty knife or caulking gun and general purpose adhesive.



DIAMETER

12 Gauge (.105") is standard.
Other sizes are available by special order.



LENGTH

1", 1-5/8", 2", 2-1/2", 3-1/2", 4-1/2", 5-1/2", 6-1/2",
8" and 9" are standard. Other lengths
are available by special order.



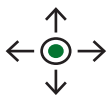
MATERIAL

Low Carbon Steel
Stainless Steel: Available by special order.
Aluminum: Available by special order.



WASHERS

Self-locking washers are available in a
variety of sizes, shapes and materials.



PLATING

Galvanized coating is standard on the pin
and plate.



HANLON STUD WELDING

1157 PAGNI DRIVE

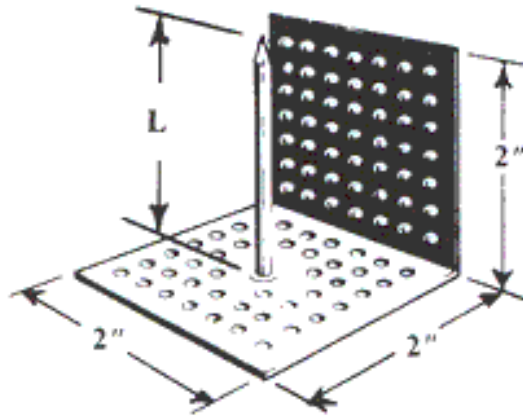
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90° INSULATION HANGER

PIN AND PLATE SPECIFICATIONS



APPLICATION: Spindles simplify the permanent installation of insulation to porous construction surfaces and non-weldable materials. They can be applied quickly and easily using only a putty knife or caulking gun and general purpose adhesive.



DIAMETER

12 Gauge (.105") is standard.
Other sizes are available by special order.



LENGTH

2-1/2", 3-1/2", 4-1/2", 5-1/2", and 6-1/2" are standard. Other lengths are available by special order.



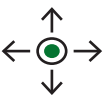
MATERIAL

Low Carbon Steel
Aluminum: Available by special order.



WASHERS

Self-locking washers are available in a variety of sizes, shapes and materials.



PLATING

Galvanized plate. Spindle galvanized or copper coated.

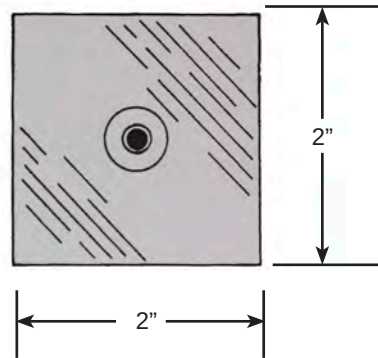
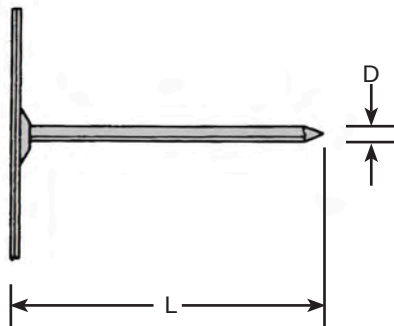


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SELF-STICK^(IASS)

PIN AND PLATE SPECIFICATIONS



APPLICATION: Self-Stick Insul-Anchors simplify the permanent installation of insulation to non-porous construction surfaces and non-weldable materials. They can be applied quickly and easily, simply peel off the release backing, press in place, and then hang the insulation. There are no messy adhesives or time delay for adhesive curing.



DIAMETER

12 gauge (.105") is standard.
Other sizes available by special order.



LENGTH

1", 1-5/8", 2", 2-1/2", 3-1/2", 4-1/2", 5-1/2", 6-1/2",
8" and 9" are standard. Other lengths
available by special order.



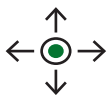
MATERIAL

Low carbon steel
Stainless steel: Available by special order.
Aluminum: Available by special order.



WASHERS

Self-locking washers are available in a
variety of sizes, shapes and materials.



PLATING

Galvanized coating is standard on the pin
and plate.



HANLON STUD WELDING

1157 PAGNI DRIVE

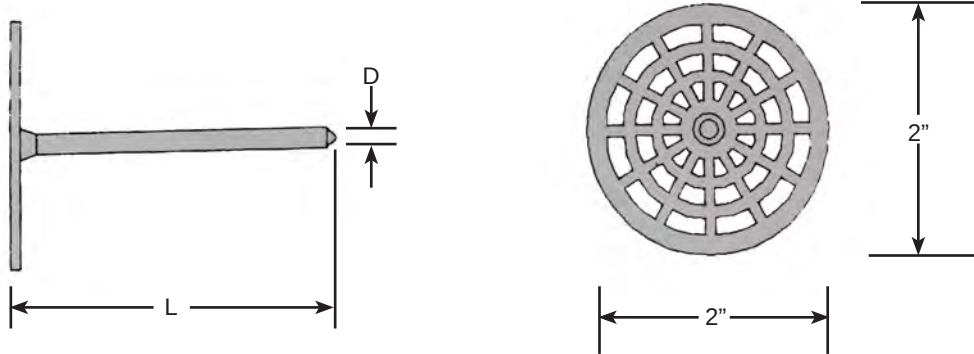
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NYLON (IANY)

PIN SPECIFICATIONS



APPLICATION: Nylon Spindles simplify the permanent installation of insulation to porous construction surfaces and non-weldable materials. The anchor will not conduct heat or cold. They can be applied quickly and easily using only a putty knife or caulking gun and general purpose adhesive. They can be used for insulation up to 2" thick.



$\frac{5}{32}$ " is standard.

DIAMETER



2- $\frac{1}{2}$ " is standard.

LENGTH



One-piece of molded nylon.

MATERIAL



Use 1- $\frac{3}{16}$ " round self-locking washers 1- $\frac{5}{16}$ " long with this insulation anchor. The washers are included with the anchors.

WASHERS



LIGHT-WEIGHT

Lighter in weight than metal anchors for ease of handling.



CONDUCTIVITY

Will not conduct heat or cold.



HANLON STUD WELDING

1157 PAGNI DRIVE

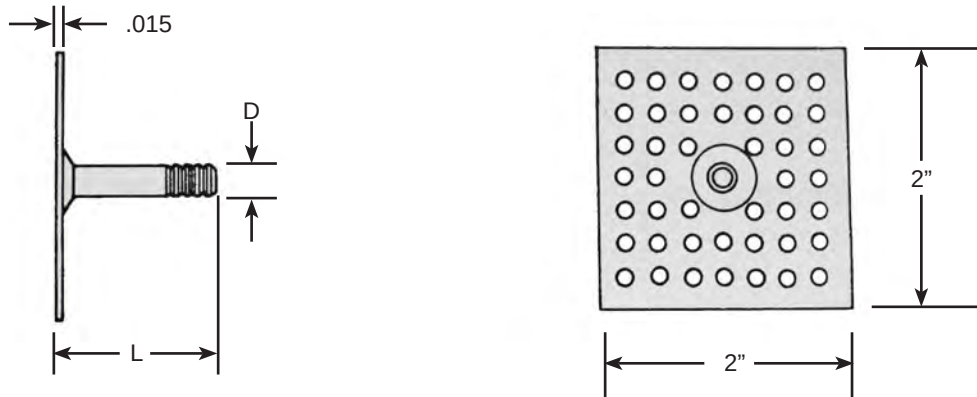
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ANNULAR RING ANCHOR BOLT (IAAB)

BOLT AND PLATE SPECIFICATIONS



APPLICATION: Used to secure insulation, typically for marine applications. They can be applied quickly and easily using only a putty knife or caulking gun and general purpose adhesive.



DIAMETER

$\frac{3}{16}$ " Nominal.
Actual ring diameter is 0.175".



LENGTH

$\frac{7}{8}$ ", $1\frac{7}{8}$ ", $2\frac{7}{8}$ ", and $3\frac{7}{8}$ " are standard.
Other lengths available by special order.



MATERIAL

Low carbon steel
Other materials are available by special order.



RETAINING CAP

Use an annular ring cap.



PLATING

Galvanized coating is standard on the plate. Copper plating is standard on the bolt.



HANLON STUD WELDING

1157 PAGNI DRIVE

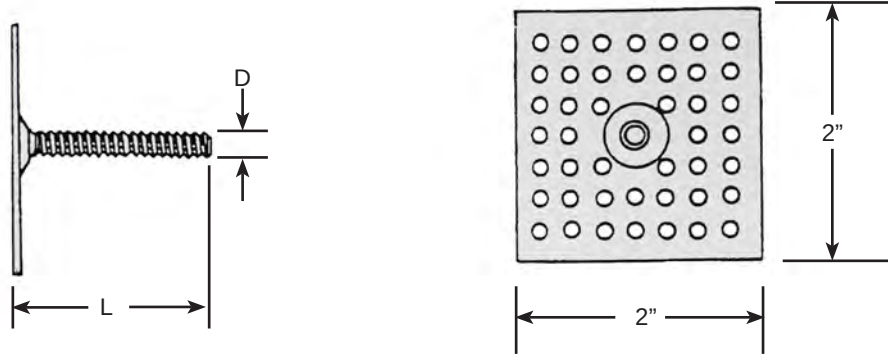
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THREADED ANCHOR BOLT (IAABTHD)

BOLT AND PLATE SPECIFICATIONS



APPLICATION: Used to secure insulation. They can be applied quickly and easily using only a putty knife or caulking gun and general purpose adhesive.



DIAMETER

#10-24 is standard. Other sizes are available by special order.



LENGTH

$\frac{3}{4}$ " to 3" long, in $\frac{1}{4}$ " increments are standard. Other lengths available by special order.



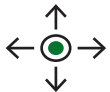
MATERIAL

Low carbon steel
Other materials are available by special order.



HARDWARE

Hex nuts, flat washers and lock washers are available in a variety of materials.



PLATING

Galvanized coating is standard on the plate. Copper plating is standard on the bolt.



HANLON STUD WELDING

1157 PAGNI DRIVE

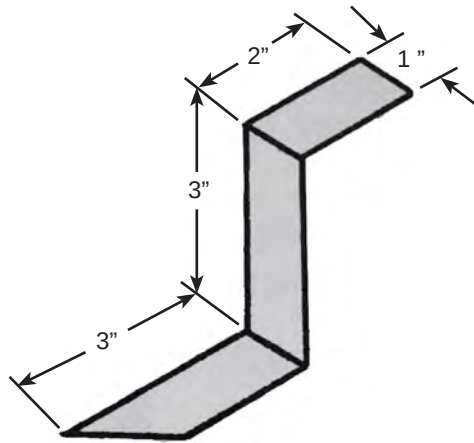
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SAFING Z CLIP (ZCLIP)

SPECIFICATIONS



APPLICATION: For use in installation of fire barrier and sound barrier safing insulations. This non-welded fastener is used as a support bracket to impale and secure insulating materials between the floor slab and spandrels at the floor edge or anywhere that support for material is required.



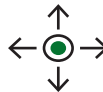
SIZE

2" x 3" x 3" x 1" standard size



MATERIAL

20 Gauge, Mild Steel



PLATING

Galvanized coating is standard.



HANLON STUD WELDING

1157 PAGNI DRIVE

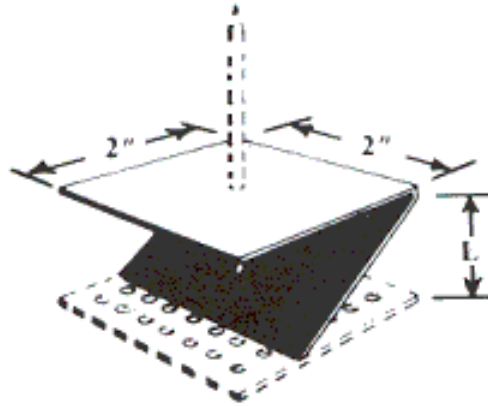
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CLUTCH CLIP

SPECIFICATIONS



APPLICATION: The clutch clip is dropped over the installed hanger/ping, insulation is impaled over the nail and secured with a self-locking washer.



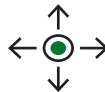
SIZE

Available in 1" and 2" lengths



MATERIAL

20 Gauge, Mild Steel



PLATING

Galvanized coating is standard.



HANLON STUD WELDING

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ADHESIVE (ADH)



APPLICATION: Insulation Hanger Adhesive is a high-strength, heavy-bodied, neoprene rubber adhesive specifically formulated for adhering anchors for hanging insulation. The adhesive bonds metal and nylon anchors to metal, concrete or masonry surfaces. Also available for use as a general-purpose construction adhesive in applications requiring a high strength bond or in applications subjected to high temperatures.



Non-slip formula - Immediate grab



Provides excellent water & mildew resistance



Performs in temperatures up to 250° F



HANLON STUD WELDING

1157 PAGNI DRIVE

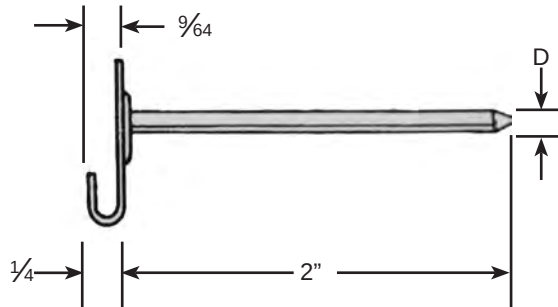
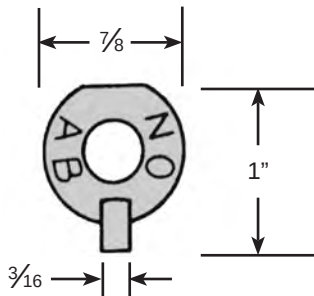
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LACING ANCHOR (LAN)

SPECIFICATIONS



APPLICATION: Lacing anchors simplify the installation of removable blankets. They provide secure lacing without damage when removing the insulation blankets.



DIAMETER

12 gauge and 14 gauge are standard.
Other sizes are available by special order.



LENGTH

2-1/2" and 4-1/2" are standard.
Other lengths available by special order.



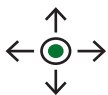
MATERIAL

Low carbon steel
Stainless steel
Other materials are available by special order.



WASHERS

Self-locking washers are available in a variety of sizes, shapes, and materials.



PLATING

Zinc plating is standard for mild steel.
Does not apply to stainless.



NO AB

Stamped NO AB to indicate non-asbestos material.

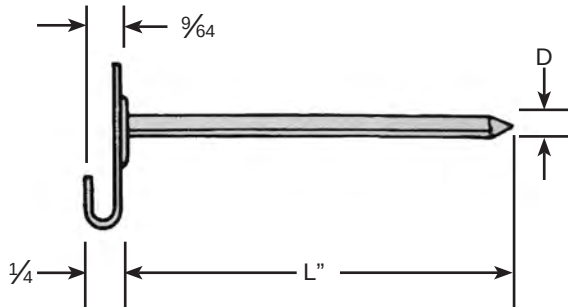
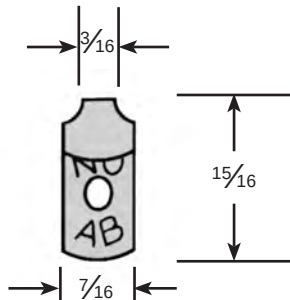


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SLIM LACING ANCHOR (LANS)

SPECIFICATIONS



APPLICATION: Lacing anchors simplify the installation of removable blankets. They provide secure lacing without damage when removing the insulation blankets.



DIAMETER

12 gauge and 14 gauge are standard.
Other sizes available by special order.



LENGTH

2-1/2" and 4-1/2" are standard.
Other lengths available by special order.



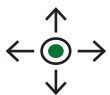
MATERIAL

Low carbon steel
Stainless steel
Other materials are available by special order.



WASHERS

Self-locking washers are available in a variety of sizes, shapes, and materials.



PLATING

Zinc plating is standard for mild steel.
Does not apply to stainless.



NO AB

Stamped NO AB to indicate non-asbestos material.

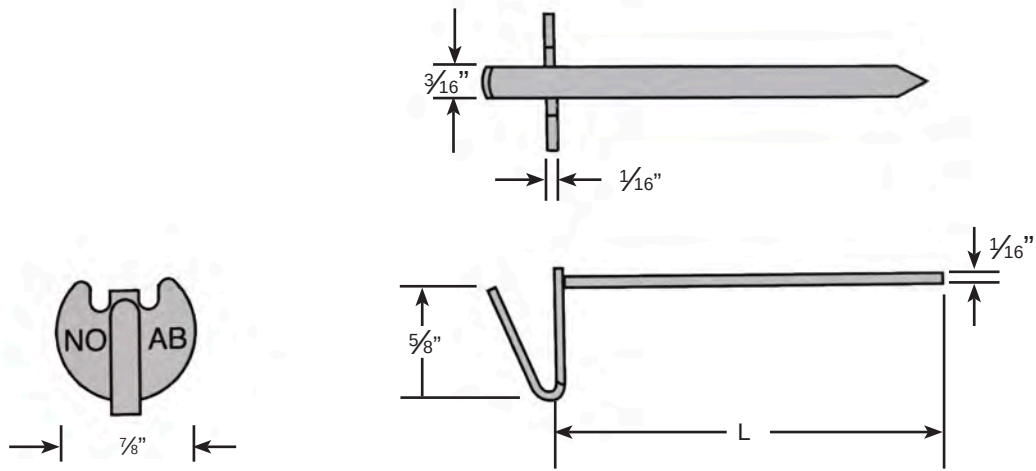


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BERGEN HOOK (BH)

SPECIFICATIONS



APPLICATION: Lacing anchors simplify the installation of removable blankets. They provide secure lacing without damage when removing the insulation blankets.



12 gauge and 14 gauge are standard.

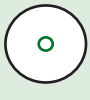


2-1/2" and 4-1/2" are standard.



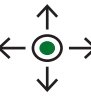
MATERIAL

Low carbon steel
Stainless steel
Other materials are available by special order.



WASHERS

Self-locking washers are available in 1-3/16" round (WA120) for use with this anchor.



PLATING

Zinc plating is standard for mild steel.
Does not apply to stainless.



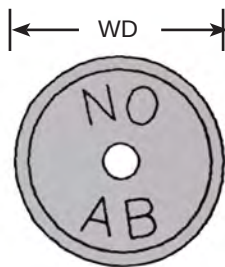
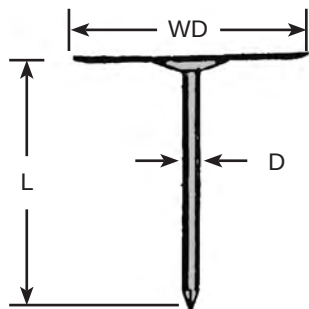
NO AB

Stamped NO AB to indicate non-asbestos material.



QUILTING PIN (QP)

SPECIFICATIONS



APPLICATION: Lacing anchors simplify the installation of removable blankets. They provide secure lacing without damage when removing the insulation blankets. Quilting pins are available for the off-seam areas of removable pads and covers.



DIAMETER

D: 12 gauge and 14 gauge are standard.
WD: 1.187" diameter washer is standard.



LENGTH

1", 2-1/2" and 4-1/2" are standard.
Other lengths available by special order.



MATERIAL

Low carbon steel
Stainless steel
Other materials are available by special order.



WASHERS

Self-locking washers are available in a variety of sizes, shapes, and materials.



PLATING

Does not apply.



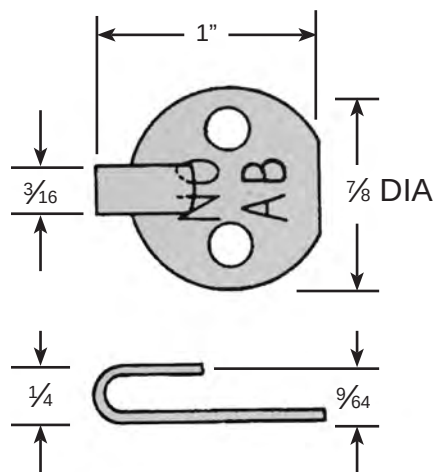
NO AB

Stamped NO AB to indicate non-asbestos material.



ACCESSORIES

LACING HOOK (LAH)



One size shown

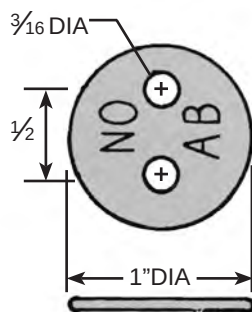


Stainless steel



Stamped NO AB to indicate non-asbestos material

LACING WASHER (L2H)



One size shown

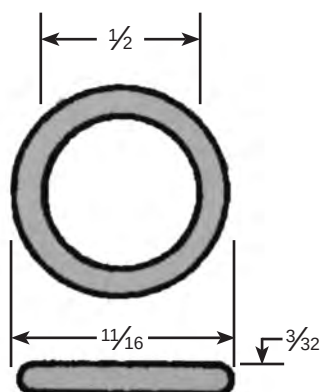


Aluminum or stainless steel



Stamped NO AB to indicate non-asbestos material

LACING RING (LRZA)



One size shown



Zinc alloy - bright zinc plated



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