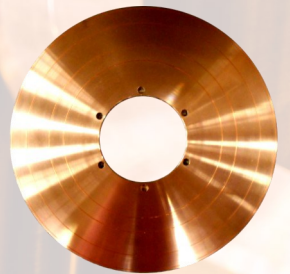
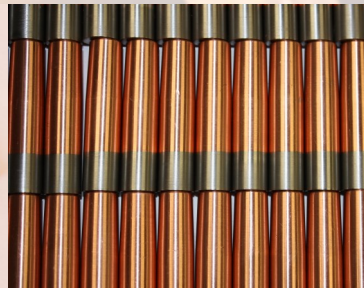




# Cadi Company Inc.

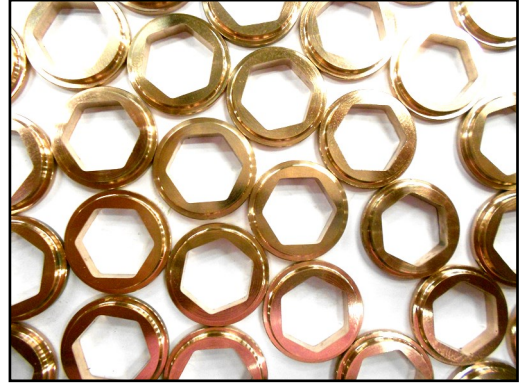
MANUFACTURER AND DISTRIBUTOR OF  
HIGH CONDUCTIVITY COPPER ALLOYS  
AND RESISTANCE WELDING PRODUCTS



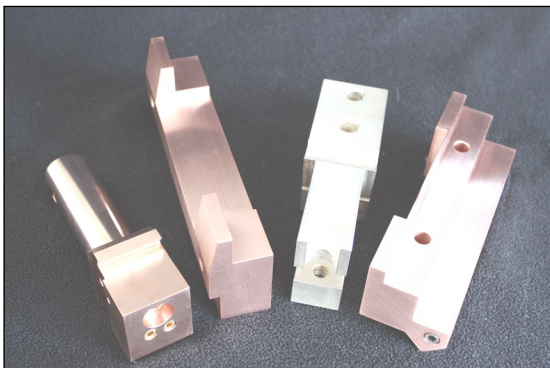
**Cadi Company, Inc. P.O. Box 1127, 60 Rado Drive, Naugatuck, CT 06770**  
**www.cadicompany.com 800-243-3650 203-729-1111**  
**Fax 203-729-1919**



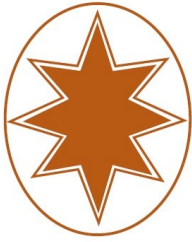




**Cadi Company** is an ISO certified manufacturer and distributor of high conductivity copper alloys; we specialize in copper that is used to manufacture resistance welding components such as welding wheels, electrodes and numerous other applications that demand performance beyond the capability of standard coppers. Copper alloys are in stock, ready to ship in rod, bar, plate, and special sizes.



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This catalog is a sampling of our frequently manufactured consumables. If you don't find it, we have it or can make it.

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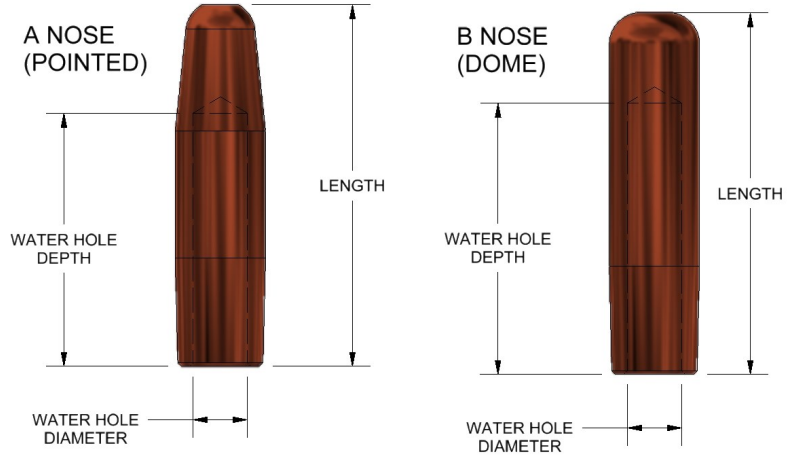
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# STANDARD WELDING ELECTRODES

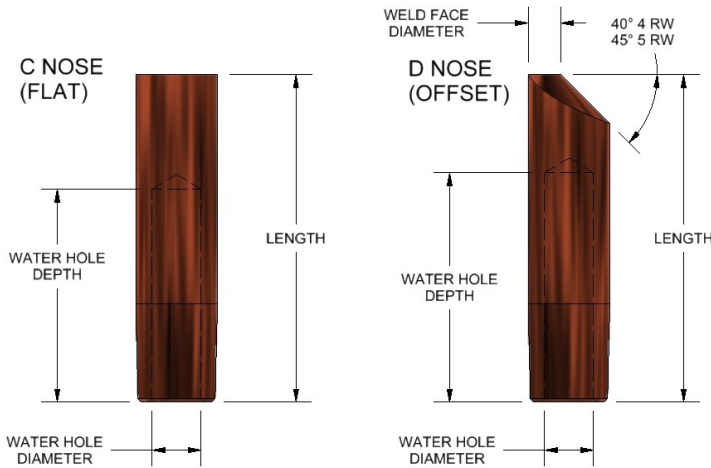
Cadi Company standard electrodes are manufactured to RWMA specifications. Cadi makes all sizes in RWMA Class 1, 2, 3, and other Copper Alloys. Special shapes and sizes are available upon request.



RWMA Class 1	RWMA Class 2	RWMA Class 3	Weld Face Diameter for CA Nose	Length	Water Hole Depth	Water Hole Diameter	Weld Face Diameter for CB Nose	RWMA Class 1	RWMA Class 2	RWMA Class 3
<b>4RW Taper Nominal 1/2" Diameter</b>										
CA-1404	CA-2404	CA-3404	3/16"	1"	1/2"	9/32"	3/16"	CB-1404	CB-2404	CB-3404
CA-1405	CA-2405	CA-3405	3/16"	1 1/4"	3/4"	9/32"	3/16"	CB-1405	CB-2405	CB-3405
CA-1406	CA-2406	CA-3406	3/16"	1 1/2"	1"	9/32"	3/16"	CB-1406	CB-2406	CB-3406
CA-1407	CA-2407	CA-3407	3/16"	1 3/4"	1 1/4"	9/32"	3/16"	CB-1407	CB-2407	CB-3407
CA-1408	CA-2408	CA-3408	3/16"	2"	1 1/2"	9/32"	3/16"	CB-1408	CB-2408	CB-3408
CA-1409	CA-2409	CA-3409	3/16"	2 1/4"	1 3/4"	9/32"	3/16"	CB-1409	CB-2409	CB-3409
CA-1410	CA-2410	CA-3410	3/16"	2 1/2"	2"	9/32"	3/16"	CB-1410	CB-2410	CB-3410
CA-1411	CA-2411	CA-3411	3/16"	2 3/4"	2 1/4"	9/32"	3/16"	CB-1411	CB-2411	CB-3411
CA-1412	CA-2412	CA-3412	3/16"	3"	2 1/2"	9/32"	3/16"	CB-1412	CB-2412	CB-3412
CA-1413	CA-2413	CA-3413	3/16"	3 1/4"	2 3/4"	9/32"	3/16"	CB-1413	CB-2413	CB-3413
CA-1414	CA-2414	CA-3414	3/16"	3 1/2"	3"	9/32"	3/16"	CB-1414	CB-2414	CB-3414
CA-1415	CA-2415	CA-3415	3/16"	3 3/4"	3 1/4"	9/32"	3/16"	CB-1415	CB-2415	CB-3415
CA-1416	CA-2416	CA-3416	3/16"	4"	3 1/2"	9/32"	3/16"	CB-1416	CB-2416	CB-3416
<b>5RW Taper Nominal 5/8" Diameter</b>										
CA-1505	CA-2505	CA-3505	1/4"	1 1/4"	1/2"	3/8"	1/4"	CB-1505	CB-2505	CB-3505
CA-1506	CA-2506	CA-3506	1/4"	1 1/2"	3/4"	3/8"	1/4"	CB-1506	CB-2506	CB-3506
CA-1507	CA-2507	CA-3507	1/4"	1 3/4"	1"	3/8"	1/4"	CB-1507	CB-2507	CB-3507
CA-1508	CA-2508	CA-3508	1/4"	2"	1 1/4"	3/8"	1/4"	CB-1508	CB-2508	CB-3508
CA-1509	CA-2509	CA-3509	1/4"	2 1/4"	1 1/2"	3/8"	1/4"	CB-1509	CB-2509	CB-3509
CA-1510	CA-2510	CA-3510	1/4"	2 1/2"	1 3/4"	3/8"	1/4"	CB-1510	CB-2510	CB-3510
CA-1511	CA-2511	CA-3511	1/4"	2 3/4"	2"	3/8"	1/4"	CB-1511	CB-2511	CB-3511
CA-1512	CA-2512	CA-3512	1/4"	3"	2 1/4"	3/8"	1/4"	CB-1512	CB-2512	CB-3512
CA-1513	CA-2513	CA-3513	1/4"	3 1/4"	2 1/2"	3/8"	1/4"	CB-1513	CB-2513	CB-3513
CA-1514	CA-2514	CA-3514	1/4"	3 1/2"	2 3/4"	3/8"	1/4"	CB-1514	CB-2514	CB-3514
CA-1515	CA-2515	CA-3515	1/4"	3 3/4"	3"	3/8"	1/4"	CB-1515	CB-2515	CB-3515
CA-1516	CA-2516	CA-3516	1/4"	4"	3 1/4"	3/8"	1/4"	CB-1516	CB-2516	CB-3516
<b>6RW Taper Nominal 3/4" Diameter</b>										
CA-1608	CA-2608	CA-3608	9/32"	2"	1 1/4"	7/16"	9/32"	CB-1608	CB-2608	CB-3608
CA-1610	CA-2610	CA-3610	9/32"	2 1/2"	1 3/4"	7/16"	9/32"	CB-1610	CB-2610	CB-3610
CA-1612	CA-2612	CA-3612	9/32"	3"	2 1/4"	7/16"	9/32"	CB-1612	CB-2612	CB-3612
CA-1614	CA-2614	CA-3614	9/32"	3 1/2"	2 3/4"	7/16"	9/32"	CB-1614	CB-2614	CB-3614
CA-1616	CA-2616	CA-3616	9/32"	4"	3 1/4"	7/16"	9/32"	CB-1616	CB-2616	CB-3616
<b>7RW Taper Nominal 7/8" Diameter</b>										
CA-1708	CA-2708	CA-3708	5/16"	2"	1 1/4"	1/2"	5/16"	CB-1708	CB-2708	CB-3708
CA-1710	CA-2710	CA-3710	5/16"	2 1/2"	1 3/4"	1/2"	5/16"	CB-1710	CB-2710	CB-3710
CA-1712	CA-2712	CA-3712	5/16"	3"	2 1/4"	1/2"	5/16"	CB-1712	CB-2712	CB-3712
CA-1714	CA-2714	CA-3714	5/16"	3 1/2"	2 3/4"	1/2"	5/16"	CB-1714	CB-2714	CB-3714
CA-1716	CA-2716	CA-3716	5/16"	4"	3 1/4"	1/2"	5/16"	CB-1716	CB-2716	CB-3716



# STANDARD WELDING ELECTRODES

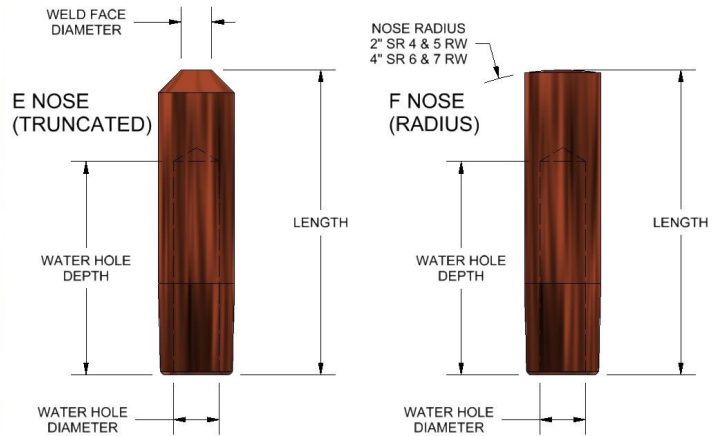


Cadi Company standard electrodes are manufactured to RWMA specifications. Cadi makes all sizes in RWMA Class 1, 2, and 3, and other Copper Alloys. Special shapes and sizes are available upon request.

RWMA Class 1	RWMA Class 2	RWMA Class 3	Weld Face Diameter for CC Nose	Length	Water Hole Depth	Water Hole Diameter	Weld Face Diameter for CD Nose	RWMA Class 1	RWMA Class 2	RWMA Class 3
<b>4RW Taper Nominal 1/2" Diameter</b>										
CC-1404	CC-2404	CC-3404	.482"	1"	1/2"	9/32"	3/16"	CD-1404	CD-2404	CD-3404
CC-1405	CC-2405	CC-3405	.482"	1 1/4"	3/4"	9/32"	3/16"	CD-1405	CD-2405	CD-3405
CC-1406	CC-2406	CC-3406	.482"	1 1/2"	1"	9/32"	3/16"	CD-1406	CD-2406	CD-3406
CC-1407	CC-2407	CC-3407	.482"	1 3/4"	1 1/4"	9/32"	3/16"	CD-1407	CD-2407	CD-3407
CC-1408	CC-2408	CC-3408	.482"	2"	1 1/2"	9/32"	3/16"	CD-1408	CD-2408	CD-3408
CC-1409	CC-2409	CC-3409	.482"	2 1/4"	1 3/4"	9/32"	3/16"	CD-1409	CD-2409	CD-3409
CC-1410	CC-2410	CC-3410	.482"	2 1/2"	2"	9/32"	3/16"	CD-1410	CD-2410	CD-3410
CC-1411	CC-2411	CC-3411	.482"	2 3/4"	2 1/4"	9/32"	3/16"	CD-1411	CD-2411	CD-3411
CC-1412	CC-2412	CC-3412	.482"	3"	2 1/2"	9/32"	3/16"	CD-1412	CD-2412	CD-3412
CC-1413	CC-2413	CC-3413	.482"	3 1/4"	2 3/4"	9/32"	3/16"	CD-1413	CD-2413	CD-3413
CC-1414	CC-2414	CC-3414	.482"	3 1/2"	3"	9/32"	3/16"	CD-1414	CD-2414	CD-3414
CC-1415	CC-2415	CC-3415	.482"	3 3/4"	3 1/4"	9/32"	3/16"	CD-1415	CD-2415	CD-3415
CC-1416	CC-2416	CC-3416	.482"	4"	3 1/2"	9/32"	3/16"	CD-1416	CD-2416	CD-3416
<b>5RW Taper Nominal 5/8" Diameter</b>										
CC-1505	CC-2505	CC-3505	5/8"	1 1/4"	1/2"	3/8"	1/4"	CD-1505	CD-2505	CD-3505
CC-1506	CC-2506	CC-3506	5/8"	1 1/2"	3/4"	3/8"	1/4"	CD-1506	CD-2506	CD-3506
CC-1507	CC-2507	CC-3507	5/8"	1 3/4"	1"	3/8"	1/4"	CD-1507	CD-2507	CD-3507
CC-1508	CC-2508	CC-3508	5/8"	2"	1 1/4"	3/8"	1/4"	CD-1508	CD-2508	CD-3508
CC-1509	CC-2509	CC-3509	5/8"	2 1/4"	1 1/2"	3/8"	1/4"	CD-1509	CD-2509	CD-3509
CC-1510	CC-2510	CC-3510	5/8"	2 1/2"	1 3/4"	3/8"	1/4"	CD-1510	CD-2510	CD-3510
CC-1511	CC-2511	CC-3511	5/8"	2 3/4"	2"	3/8"	1/4"	CD-1511	CD-2511	CD-3511
CC-1512	CC-2512	CC-3512	5/8"	3"	2 1/4"	3/8"	1/4"	CD-1512	CD-2512	CD-3512
CC-1513	CC-2513	CC-3513	5/8"	3 1/4"	2 1/2"	3/8"	1/4"	CD-1513	CD-2513	CD-3513
CC-1514	CC-2514	CC-3514	5/8"	3 1/2"	2 3/4"	3/8"	1/4"	CD-1514	CD-2514	CD-3514
CC-1515	CC-2515	CC-3515	5/8"	3 3/4"	3"	3/8"	1/4"	CD-1515	CD-2515	CD-3515
CC-1516	CC-2516	CC-3516	5/8"	4"	3 1/4"	3/8"	1/4"	CD-1516	CD-2516	CD-3516
<b>6RW Taper Nominal 3/4" Diameter</b>										
CC-1608	CC-2608	CC-3608	3/4"	2"	1 1/4"	7/16"	9/32"	CD-1608	CD-2608	CD-3608
CC-1610	CC-2610	CC-3610	3/4"	2 1/2"	1 3/4"	7/16"	9/32"	CD-1610	CD-2610	CD-3610
CC-1612	CC-2612	CC-3612	3/4"	3"	2 1/4"	7/16"	9/32"	CD-1612	CD-2612	CD-3612
CC-1614	CC-2614	CC-3614	3/4"	3 1/2"	2 3/4"	7/16"	9/32"	CD-1614	CD-2614	CD-3614
CC-1616	CC-2616	CC-3616	3/4"	4"	3 1/4"	7/16"	9/32"	CD-1616	CD-2616	CD-3616
<b>7RW Taper Nominal 7/8" Diameter</b>										
CC-1708	CC-2708	CC-3708	7/8"	2"	1 1/4"	1/2"	5/16"	CD-1708	CD-2708	CD-3708
CC-1710	CC-2710	CC-3710	7/8"	2 1/2"	1 3/4"	1/2"	5/16"	CD-1710	CD-2710	CD-3710
CC-1712	CC-2712	CC-3712	7/8"	3"	2 1/4"	1/2"	5/16"	CD-1712	CD-2712	CD-3712
CC-1714	CC-2714	CC-3714	7/8"	3 1/2"	2 3/4"	1/2"	5/16"	CD-1714	CD-2714	CD-3714
CC-1716	CC-2716	CC-3716	7/8"	4"	3 1/4"	1/2"	5/16"	CD-1716	CD-2716	CD-3716

# STANDARD WELDING ELECTRODES

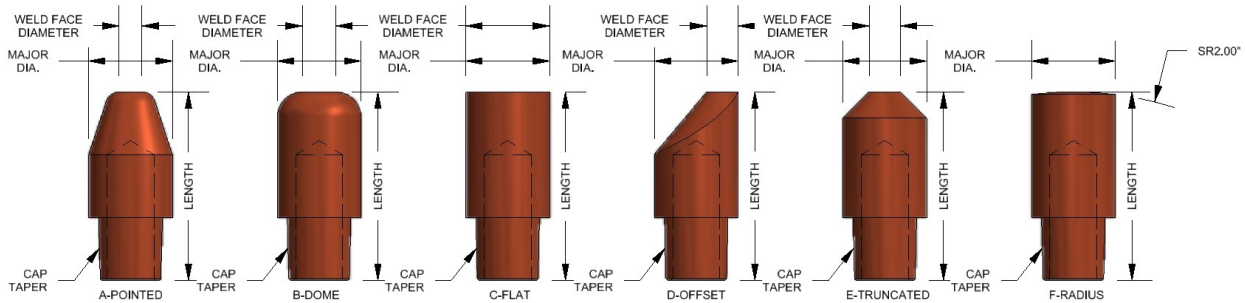
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RWMA Class 1	RWMA Class 2	RWMA Class 3	Weld Face Diameter for CE Nose	Length	Water Hole Depth	Water Hole Diameter	Nose Radius for CF Nose	RWMA Class 1	RWMA Class 2	RWMA Class 3
<b>4RW Taper Nominal 1/2" Diameter</b>										
CE-1404	CE-2404	CE-3404	3/16"	1"	1/2"	9/32"	2"	CF-1404	CF-2404	CF-3404
CE-1405	CE-2405	CE-3405	3/16"	1 1/4"	3/4"	9/32"	2"	CF-1405	CF-2405	CF-3405
CE-1406	CE-2406	CE-3406	3/16"	1 1/2"	1"	9/32"	2"	CF-1406	CF-2406	CF-3406
CE-1407	CE-2407	CE-3407	3/16"	1 3/4"	1 1/4"	9/32"	2"	CF-1407	CF-2407	CF-3407
CE-1408	CE-2408	CE-3408	3/16"	2"	1 1/2"	9/32"	2"	CF-1408	CF-2408	CF-3408
CE-1409	CE-2409	CE-3409	3/16"	2 1/4"	1 3/4"	9/32"	2"	CF-1409	CF-2409	CF-3409
CE-1410	CE-2410	CE-3410	3/16"	2 1/2"	2"	9/32"	2"	CF-1410	CF-2410	CF-3410
CE-1411	CE-2411	CE-3411	3/16"	2 3/4"	2 1/4"	9/32"	2"	CF-1411	CF-2411	CF-3411
CE-1412	CE-2412	CE-3412	3/16"	3"	2 1/2"	9/32"	2"	CF-1412	CF-2412	CF-3412
CE-1413	CE-2413	CE-3413	3/16"	3 1/4"	2 3/4"	9/32"	2"	CF-1413	CF-2413	CF-3413
CE-1414	CE-2414	CE-3414	3/16"	3 1/2"	3"	9/32"	2"	CF-1414	CF-2414	CF-3414
CE-1415	CE-2415	CE-3415	3/16"	3 3/4"	3 1/4"	9/32"	2"	CF-1415	CF-2415	CF-3415
CE-1416	CE-2416	CE-3416	3/16"	4"	3 1/2"	9/32"	2"	CF-1416	CF-2416	CF-3416
<b>5RW Taper Nominal 5/8" Diameter</b>										
CE-1505	CE-2505	CE-3505	1/4"	1 1/4"	1/2"	3/8"	2"	CF-1505	CF-2505	CF-3505
CE-1506	CE-2506	CE-3506	1/4"	1 1/2"	3/4"	3/8"	2"	CF-1506	CF-2506	CF-3506
CE-1507	CE-2507	CE-3507	1/4"	1 3/4"	1"	3/8"	2"	CF-1507	CF-2507	CF-3507
CE-1508	CE-2508	CE-3508	1/4"	2"	1 1/4"	3/8"	2"	CF-1508	CF-2508	CF-3508
CE-1509	CE-2509	CE-3509	1/4"	2 1/4"	1 1/2"	3/8"	2"	CF-1509	CF-2509	CF-3509
CE-1510	CE-2510	CE-3510	1/4"	2 1/2"	1 3/4"	3/8"	2"	CF-1510	CF-2510	CF-3510
CE-1511	CE-2511	CE-3511	1/4"	2 3/4"	2"	3/8"	2"	CF-1511	CF-2511	CF-3511
CE-1512	CE-2512	CE-3512	1/4"	3"	2 1/4"	3/8"	2"	CF-1512	CF-2512	CF-3512
CE-1513	CE-2513	CE-3513	1/4"	3 1/4"	2 1/2"	3/8"	2"	CF-1513	CF-2513	CF-3513
CE-1514	CE-2514	CE-3514	1/4"	3 1/2"	2 3/4"	3/8"	2"	CF-1514	CF-2514	CF-3514
CE-1515	CE-2515	CE-3515	1/4"	3 3/4"	3"	3/8"	2"	CF-1515	CF-2515	CF-3515
CE-1516	CE-2516	CE-3516	1/4"	4"	3 1/4"	3/8"	2"	CF-1516	CF-2516	CF-3516
<b>6RW Taper Nominal 3/4" Diameter</b>										
CE-1608	CE-2608	CE-3608	9/32"	2"	1 1/4"	7/16"	4"	CF-1608	CF-2608	CF-3608
CE-1610	CE-2610	CE-3610	9/32"	2 1/2"	1 3/4"	7/16"	4"	CF-1610	CF-2610	CF-3610
CE-1612	CE-2612	CE-3612	9/32"	3"	2 1/4"	7/16"	4"	CF-1612	CF-2612	CF-3612
CE-1614	CE-2614	CE-3614	9/32"	3 1/2"	2 3/4"	7/16"	4"	CF-1614	CF-2614	CF-3614
CE-1616	CE-2616	CE-3616	9/32"	4"	3 1/4"	7/16"	4"	CF-1616	CF-2616	CF-3616
<b>7RW Taper Nominal 7/8" Diameter</b>										
CE-1708	CE-2708	CE-3708	5/16"	2"	1 1/4"	1/2"	4"	CF-1708	CF-2708	CF-3708
CE-1710	CE-2710	CE-3710	5/16"	2 1/2"	1 3/4"	1/2"	4"	CF-1710	CF-2710	CF-3710
CE-1712	CE-2712	CE-3712	5/16"	3"	2 1/4"	1/2"	4"	CF-1712	CF-2712	CF-3712
CE-1714	CE-2714	CE-3714	5/16"	3 1/2"	2 3/4"	1/2"	4"	CF-1714	CF-2714	CF-3714
CE-1716	CE-2716	CE-3716	5/16"	4"	3 1/4"	1/2"	4"	CF-1716	CF-2716	CF-3716



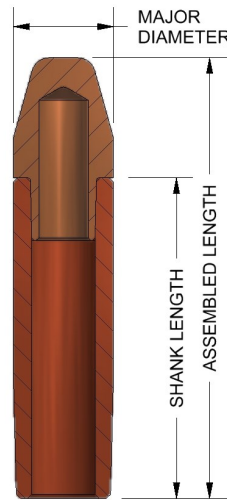
# MALE WELDING CAPS AND SHANKS



CLASS 1	CLASS 2	CLASS 3	NOSE TYPE	MAJOR DIAMETER	WELD FACE DIAMETER	LENGTH
CA-14	CA-24	CA-34	A	0.482"	3/16"	1-1/8"
CB-14	CB-24	CB-34	B	0.482"	3/16"	1-1/8"
CC-14	CC-24	CC-34	C	0.482"	.482"	1-1/8"
CD-14	CD-24	CD-34	D	0.482"	3/16"	1-1/8"
CE-14	CE-24	CE-34	E	0.482"	3/16"	1-1/8"
CF-14	CF-24	CF-34	F	0.482"	SR2.00°	1-1/8"
CA-15	CA-25	CA-35	A	0.625"	1/4"	1-1/4"
CB-15	CB-25	CB-35	B	0.625"	1/4"	1-1/4"
CC-15	CC-25	CC-35	C	0.625"	5/8"	1-1/4"
CD-15	CD-25	CD-35	D	0.625"	1/4"	1-1/4"
CE-15	CE-25	CE-35	E	0.625"	1/4"	1-1/4"
CF-15	CF-25	CF-35	F	0.625"	SR2.00°	1-1/4"

## STRAIGHT SHANKS FOR MALE CAPS

4 RW CAP TAPER	MAJOR DIAMETER	LENGTH	ASSEMBLED LENGTH
CG-2405	0.482"	1-1/4"	2"
CG-2406	0.482"	1-1/2"	2-1/4"
CG-2407	0.482"	1-3/4"	2-1/2"
CG-2408	0.482"	2"	2-3/4"
CG-2409	0.482"	2-1/4"	3"
CG-2410	0.482"	2-1/2"	3-1/4"
CG-2411	0.482"	2-3/4"	3-1/2"
CG-2412	0.482"	3"	3-3/4"
CG-2413	0.482"	3-1/4"	4"
CG-2414	0.482"	3-1/2"	4-1/4"
CG-2415	0.482"	3-3/4"	4-1,2"
CG-2416	0.482"	4"	4-3/4"



Cadi offers male caps and straight or bent shanks in 4, 5, 6 and 7 RW tapers (6 & 7 not shown).

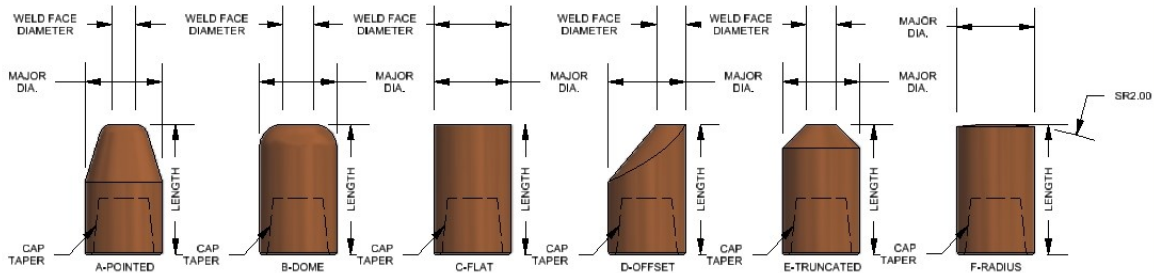
5 RW CAP TAPER	MAJOR DIAMETER	LENGTH	ASSEMBLED LENGTH
CG-2505	0.625"	1-1/4"	2"
CG-2506	0.625"	1-1/2"	2-1/4"
CG-2507	0.625"	1-3/4"	2-1/2"
CG-2508	0.625"	2"	2-3/4"
CG-2509	0.625"	2-1/4"	3"
CG-2510	0.625"	2-1/2"	3-1/4"
CG-2511	0.625"	2-3/4"	3-1/2"
CG-2512	0.625"	3"	3-3/4"
CG-2513	0.625"	3-1/4"	4"
CG-2514	0.625"	3-1/2"	4-1/4"
CG-2515	0.625"	3-3/4"	4-1/2"

Cadi Company manufactures standard and to-print male and female RWMA and ISO welding caps and shanks. Caps and shanks are a two part alternative to straight electrodes in which the shank can be reused many times.

Resistance welding cap technology gives the end user an economical, efficient alternative to standard electrodes. Their small size and ease of

maintenance makes them ideal alternatives in high duty applications. Standard nose configurations, special shapes and sizes are available in RWMA Class 1, 2, 3 and other Copper Alloys.

# FEMALE WELDING CAPS AND SHANKS

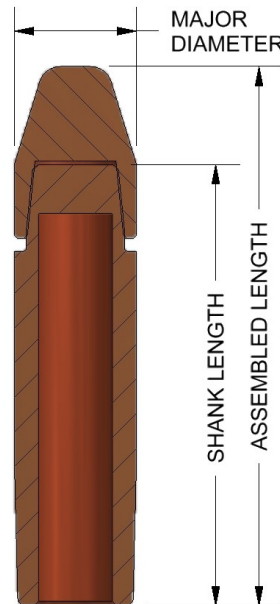


CLASS 1	CLASS 2	CLASS 3	NOSE TYPE	MAJOR DIAMETER	WELD FACE DIAMETER	LENGTH
CFA-14	CFA-24	CFA-34	A	0.482"	3/16"	.84"
CFB-14	CFB-24	CFB-34	B	0.482"	3/16"	.84"
CFC-14	CFC-24	CFC-34	C	0.482"	0.482"	.84"
CFD-14	CFD-24	CFD-34	D	0.482"	3/16"	.84"
CFE-14	CFE-24	CFE-34	E	0.482"	3/16"	.84"
CFF-14	CFF-24	CFF-34	F	0.482"	SR2.00"	.84"
CFA-15	CFA-25	CFA-35	A	0.625"	3/16" or 1/4"	.88"
CFB-15	CFB-25	CFB-35	B	0.625"	3/16" or 1/4"	.88"
CFC-15	CFC-25	CFC-35	C	0.625"	5/8"	.88"
CFD-15	CFD-25	CFD-35	D	0.625"	3/16" or 1/4"	.88"
CFE-15	CFE-25	CFE-35	E	0.625"	3/16" or 1/4"	.88"
CFF-15	CFF-25	CFF-35	F	0.625"	SR2.00"	.88"

## STRAIGHT SHANKS FOR FEMALE CAPS

4 RW CAP TAPER	MAJOR DIAMETER	SHANK LENGTH	ASSEMBLED LENGTH
CFG-2405	0.482"	1-1/4"	1.85"
CFG-2406	0.482"	1-1/2"	2.10"
CFG-2407	0.482"	1-3/4"	2.35"
CFG-2408	0.482"	2"	2.60"
CFG-2409	0.482"	2-1/4"	2.85"
CFG-2410	0.482"	2-1/2"	3.10"
CFG-2411	0.482"	2-3/4"	3.35"
CFG-2412	0.482"	3"	3.60"
CFG-2413	0.482"	3-1/4"	3.85"
CFG-2414	0.482"	3-1/2"	4.10"
CFG-2415	0.482"	3-3/4"	4.35"
CFG-2416	0.482"	4"	4.60"

5 RW CAP TAPER	MAJOR DIAMETER	SHANK LENGTH	ASSEMBLED LENGTH
CFG-2505	0.625"	1-1/4"	1.89"
CFG-2506	0.625"	1-1/2"	2.14"
CFG-2507	0.625"	1-3/4"	2.39"
CFG-2508	0.625"	2"	2.64"
CFG-2509	0.625"	2-1/4"	2.89"
CFG-2510	0.625"	2-1/2"	3.14"
CFG-2511	0.625"	2-3/4"	3.39"
CFG-2512	0.625"	3"	3.64"
CFG-2513	0.625"	3-1/4"	3.89"
CFG-2514	0.625"	3-1/2"	4.14"
CFG-2415	0.625"	3-3/4"	4.39"
CFG-2416	0.625"	4"	4.64"



Cadi offers female caps and straight or bent shanks in 4, 5, 6 and 7 RW tapers (6 & 7 not shown).

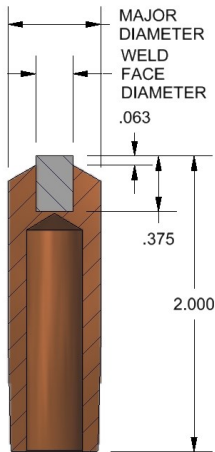
Cadi Company manufactures standard and to-print male and female RWMA and ISO welding caps and shanks. Caps and shanks are a two part alternative

to straight electrodes in which the shank can be reused many times.

Resistance welding cap technology gives the end user an economical, efficient alternative to standard electrodes. Their small size and ease of maintenance makes them ideal alternatives in high duty applications. All standard nose configurations are available. Special shapes and sizes are available in RWMA Class 1, 2, 3, and other Copper Alloys.

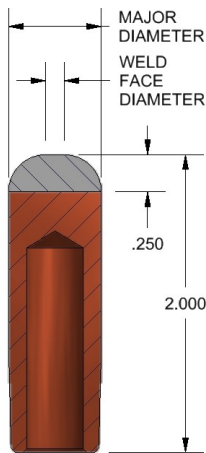


# REFRACTORY METAL-FACED ELECTRODES



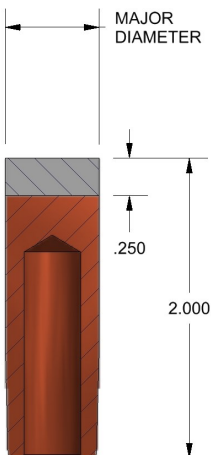
4 RW TAPER	NOSE TYPE	MAJOR DIAMETER	WELD FACE DIAMETER	LENGTH	INSERT MATERIAL
FC10 408	A	0.482"	3/16"	2"	COPPER TUNGSTEN (10W)
FCM 408	A	0.482"	3/16"	2"	MOLYBDENUM (100M)
FCT 408	A	0.482"	3/16"	2"	TUNGSTEN (100W)

5 RW TAPER	NOSE TYPE	MAJOR DIAMETER	WELD FACE DIAMETER	LENGTH	INSERT MATERIAL
FC10 508	A	0.625"	1/4"	2"	COPPER TUNGSTEN (10W)
FCM 508	A	0.625"	1/4"	2"	MOLYBDENUM (100M)
FCT 508	A	0.625"	1/4"	2"	TUNGSTEN (100W)



4 RW TAPER	NOSE TYPE	MAJOR DIAMETER	WELD FACE DIAMETER	LENGTH	INSERT MATERIAL
FD10 408	B	0.482"	1/8"	2"	COPPER TUNGSTEN (10W)
FDM 408	B	0.482"	1/8"	2"	MOLYBDENUM (100M)
FDT 408	B	0.482"	1/8"	2"	TUNGSTEN (100W)

5 RW TAPER	NOSE TYPE	MAJOR DIAMETER	WELD FACE DIAMETER	LENGTH	INSERT MATERIAL
FD10 508	B	0.625"	1/8"	2"	COPPER TUNGSTEN (10W)
FDM 508	B	0.625"	1/8"	2"	MOLYBDENUM (100M)
FDT 508	B	0.625"	1/8"	2"	TUNGSTEN (100W)

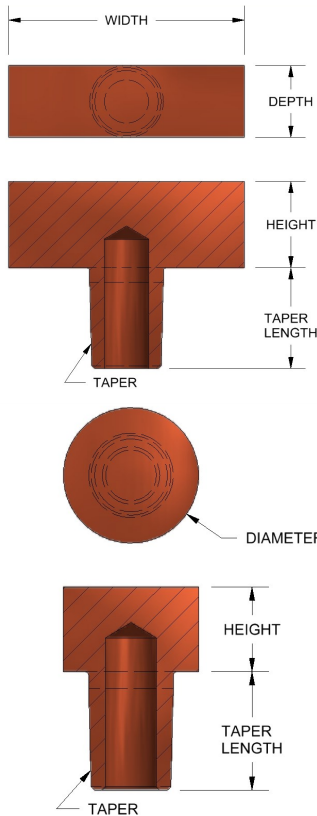


4 RW TAPER	NOSE TYPE	MAJOR DIAMETER	WELD FACE DIAMETER	LENGTH	INSERT MATERIAL
FF10 408	C	0.482"	.482"	2"	COPPER TUNGSTEN (10W)
FFM 408	C	0.482"	.482"	2"	MOLYBDENUM (100M)
FFT 408	C	0.482"	.482"	2"	TUNGSTEN (100W)

5 RW TAPER	NOSE TYPE	MAJOR DIAMETER	WELD FACE DIAMETER	LENGTH	INSERT MATERIAL
FF10 508	C	0.625"	5/8"	2"	COPPER TUNGSTEN (10W)
FFM 508	C	0.625"	5/8"	2"	MOLYBDENUM (100M)
FFT 508	C	0.625"	5/8"	2"	TUNGSTEN (100W)

Cadi Company manufactures standard and to-print refractory metal-faced electrodes that can be used in high heat, high force applications, and heat balancing to improve nugget size or location. RWMA Class 2 copper is used for the electrode body. Special shapes and sizes are available upon request.

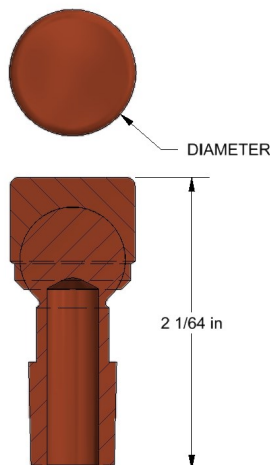
# BACKUP AND SWIVEL ELECTRODES



RECTANGULAR BACKUP ELECTRODES					
PART NUMBER	RW TAPER	WIDTH	DEPTH	HEIGHT	TAPER LENGTH
C-237	4RW	1/2"	1/2"	3/4"	7/8"
C-109	5RW	5/8"	5/8"	5/8"	7/8"
C-382	4RW	1"	1/2"	3/4"	7/8"
C-383	5RW	1"	1/2"	3/4"	7/8"
C-384	4RW	1-1/2"	5/8"	3/4"	7/8"
C-385	5RW	1-1/2"	5/8"	3/4"	7/8"
C-127	4RW	2"	5/8"	3/4"	7/8"
C-125	5RW	2"	5/8"	3/4"	7/8"

ROUND BACKUP ELECTRODES				
PART NUMBER	RW TAPER	DIAMETER	HEIGHT	TAPER
C-375	4RW	7/8"	5/8"	7/8"
C-378	5RW	7/8"	5/8"	7/8"
C-161	4RW	1"	5/8"	7/8"
C-183	5RW	1"	5/8"	7/8"
C-376	4RW	1-1/4"	5/8"	7/8"
C-379	5RW	1-1/4"	5/8"	7/8"
C-377	4RW	1-1/2"	5/8"	7/8"
C-380	5RW	1-1/2"	5/8"	7/8"

Cadi Company manufactures standard and to-print backup electrodes in round, square, and rectangular shapes. Electrodes are available in RWMA Class 1, 2, or 3 and can be faced with copper-tungsten, molybdenum, tungsten and other refractory metals. The standard material for backup electrodes is RWMA Class 2. Special shapes, sizes, and materials are available upon request.



SWIVEL HEAD ELECTRODES				
PART NUMBER	RW TAPER	DIAMETER	HEIGHT	TYPE
C-369	4RW	7/8"	2-1/64"	BLIND HOLE
C-370	5RW	7/8"	2-1/64"	BLIND HOLE
C-216	4RW	1"	2-1/64"	BLIND HOLE
C-120	5RW	1"	2-1-64"	BLIND HOLE
C-204	4RW	1-1/4"	2-1/64"	BLIND HOLE
C-217	5RW	1-1/4"	2-1/64"	BLIND HOLE
C-348	4 RW	1"	2-1/64"	BALL & SPRING
C-350	5 RW	1"	2-1/64"	BALL & SPRING
C-349	4 RW	1-1/4"	2-1/64"	BALL & SPRING
C-351	5 RW	1-1/4"	2-1/64"	BALL & SPRING
C-372	4 RW	7/8"	2-1/64"	THRU HOLE
C-374	5 RW	7/8"	2-1/64"	THRU HOLE
C-352	4 RW	1"	2-1/64"	THRU HOLE
C-354	5 RW	1"	2-1/64"	THRU HOLE
C-353	4 RW	1-1/4"	2-1/64"	THRU HOLE
C-355	5 RW	1-1/4"	2-1/64"	THRU HOLE

Many other diameters and lengths available.

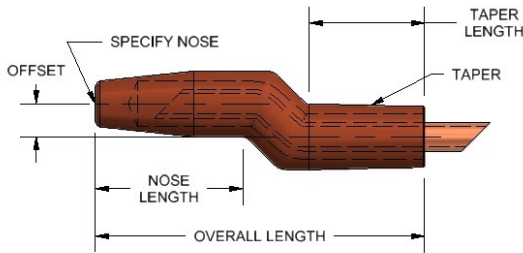
Swivel head electrodes compensate for minor misalignments and minimize marking of the work surface. RWMA Class 2 is the standard material used, however RWMA Class 1 and 3 are optional. Special sizes and shapes are available upon request.



# DOUBLE BEND ELECTRODES



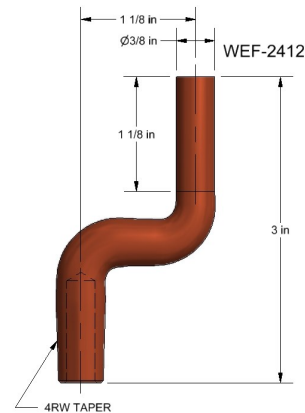
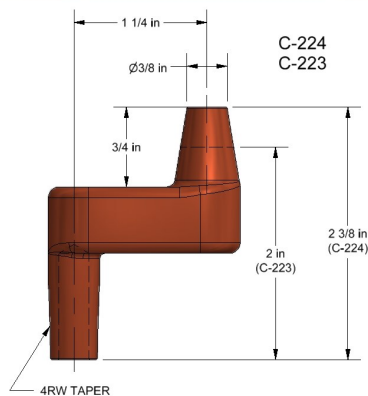
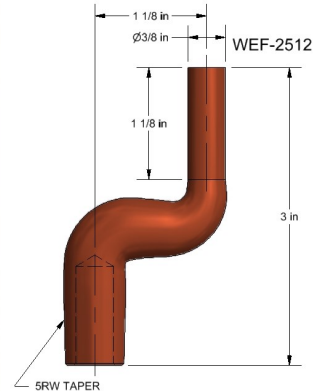
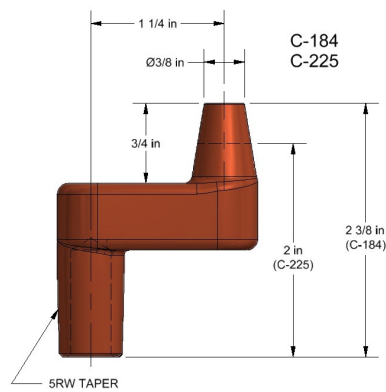
Cadi manufactures double bend electrodes from standard RWMA Class 2 straight electrodes with water tubes in place. This assures water cooling at the weld face, giving longer life and more consistent weld quality. Cadi double bend electrodes may be ordered in all standard nose designs, and, as a special item, in either RWMA Class 1 or 3. Water tubes may be deleted upon request. Special shapes and sizes are available.



Double bend electrodes are available from 2" to 4" overall length. 4 RW or 5RW tapers and offsets to 1-1/4". Standard Nose Length is 3/4" for 4RW and 1" for 5RW. Standard taper length is 7/8" for 4RW and 1" for 5RW. Bent electrode overall length dimensions may vary  $\pm 1/16"$ . Custom nose length, taper lengths and offsets are available upon request.

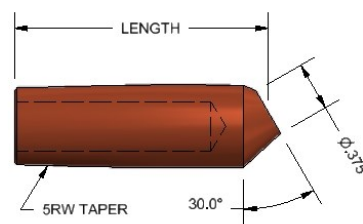
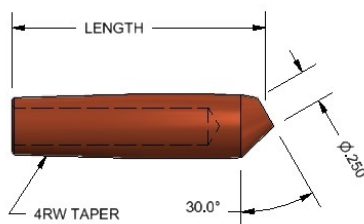
OFFSET	TAPER	TAPER LENGTH	NOSE LENGTH	OVERALL LENGTH	PART NUMBER
1/2"	4RW	7/8"	3/4"	2"	CA-2408-8
				2-1/4"	CA-2409-8
				2-1/2"	CA-2410-8
	5RW	1"	1"	2-1/2"	CA-2510-8
				2-3/4"	CA-2511-8
				3"	CA-2512-8
3-1/4"	CA-2513-8				
3/4"	4RW	7/8"	3/4"	2"	CA-2408-12
				2-1/4"	CA-2409-12
				2-1/2"	CA-2410-12
	5RW	1"	1"	2-3/4"	CA-2511-12
				3"	CA-2512-12
				3-1/4"	CA-2513-12
1"	4RW	7/8"	3/4"	2-1/4"	CA-2409-16
				2-1/2"	CA-2410-16
				2-3/4"	CA-2411-16
	5RW	1"	1"	3"	CA-2412-16
				2-3/4"	CA-2511-16
				3"	CA-2512-16
3-1/4"	CA-2513-16				
3-1/2"	CA-2514-16				
1-1/4"	4RW	7/8"	3/4"	2-1/2"	CA-2410-20
				2-3/4"	CA-2411-20
				3"	CA-2412-20
	5RW	1"	1"	2-3/4"	CA-2511-20
				3"	CA-2512-20
				3-1/4"	CA-2513-20
3-1/2"	CA-2514-20				

## IRREGULAR SHAPED ELECTRODES



Crank type electrodes are drop forged from RWMA Class 2 copper alloy for additional strength and life. WEF electrodes are cold formed from RWMA Class 2 extruded bar.

## 30° OFFSET NOSE ELECTRODES

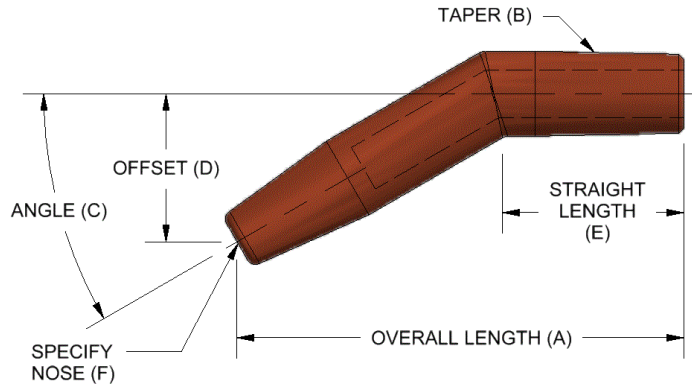


PART NUMBER	TAPER	LENGTH
C-218-2	4RW	2"
C-218-3	4RW	3"
C-218-4	4RW	4"
C-219-2	5RW	2"
C-219-3	5RW	3"
C-219-4	5RW	4"

RWMA Class 2 is the standard material used, however other alloys are available. These electrodes are for use with welder arms having an angled hole. This allows for extra reach into the parts being welded.



# SINGLE BEND ELECTRODES

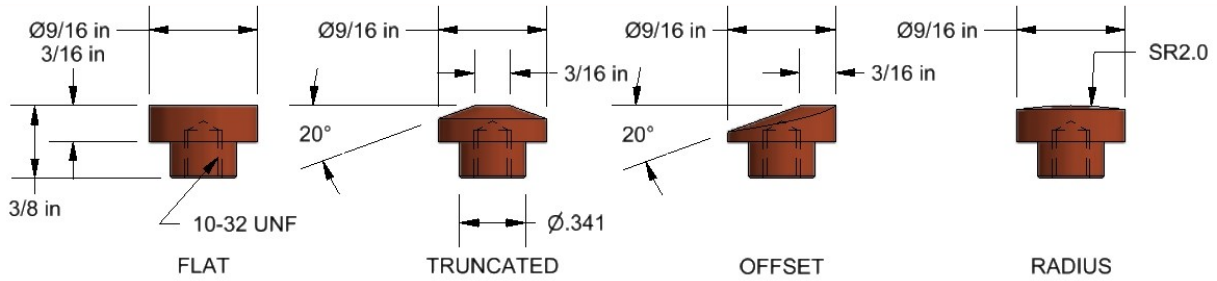


PART NUMBER	OVERALL LENGTH	TAPER (B)	ANGLE (C)	OFFSET (D)	STRAIGHT LENGTH (E)	NOSE TYPE (F)
CA2407-S-15-4-5	1 3/4	4RW	15°	1/4	5/8	A = POINTED  (See example below for other nose types)
CA2412-S-15-4-15	3	4RW		1/4	1 7/8	
CA2416-S-15-13-5	4	4RW		13/16	5/8	
CA2508-S-15-4-7	2	5RW		1/4	7/8	
CA2512-S-15-4-15	3	5RW		1/4	1 7/8	
CA2515-S-15-10-8	3 3/4	5RW		5/8	1	
CA2408-S-30-7-6	2	4RW	30°	7/16	3/4	
CA2412-S-30-7-14	3	4RW		7/16	1 3/4	
CA2415-S-30-23-7	3 3/4	4RW		1 7/16	7/8	
CA2508-S-30-9-7	2	5RW		9/16	7/8	
CA2512-S-30-9-15	3	5RW		9/16	1 7/8	
CA2515-S-30-24-8	3 3/4	5RW	1 1/2	1		
CA2407-S-45-10-6	1 3/4	4RW	45°	5/8	3/4	
CA2412-S-45-12-15	3	4RW		3/4	1 7/8	
CA2413-S-45-33-6	3 1/4	4RW		2 1/16	3/4	
CA2508-S-45-17-7	2	5RW		1 1/16	7/8	
CA2512-S-45-17-13	3	5RW		1 1/16	1 5/8	
CA2515-S-45-33-8	3 3/4	5RW		2 1/16	1	
CA2408-S-60-23-7	2	4RW	60°	1 7/16	7/8	
CA2412-S-60-23-15	3	4RW		1 7/16	1 7/8	
CA2411-S-60-40-7	2 3/4	4RW		2 1/2	7/8	
CA2510-S-60-25-9	2 1/2	5RW		1 9/16	1 1/8	
CA2513-S-60-25-15	3 1/4	5RW		1 9/16	1 7/8	
CA2512-S-60-38-10	3	5RW		2 3/8	1 1/4	

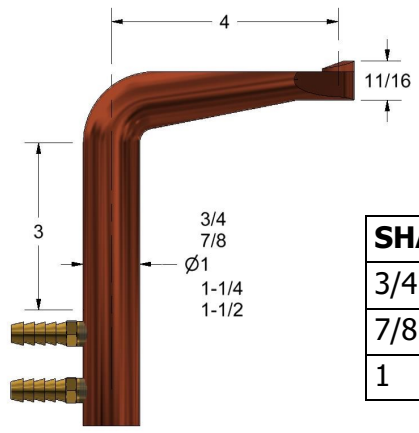
Cadi manufactures single bend electrodes from standard RWMA Class 2 straight electrodes. Single bend electrodes may be ordered in all standard nose designs and as a special item in either RWMA Class 1 or 3. Single bend electrodes are available in a wide variety of lengths and offsets. 4RW and 5RW tapers are available. Special shapes and sizes are available. Bent electrode overall length may vary  $\pm 1/16"$ . (REF) "D" DIM=1/16" Increments.

CADI PART NUMBER EXAMPLE: CA2512-S-45-9-10								
	(F) Nose		(B) Taper	(A) Overall Length		(C) Angle of Offset	(D) Offset	(E) Straight Length
C	A	2	5	12	S	45	9	10
Cadi	A = Pointed Nose (other nose types: B = Dome, C = Flat, D = Offset, E = Truncated, F = Radius)	Class 2 Material, other materials available	5RW Taper 4=4RW=(1MT) 5=5RW=(2MT)	12=3" Overall Length in 1/4" increments	Single Bend	45° Angle	9/16 Offset in 1/16" increments	5/8 straight length in 1/8" increments

# PADDLE TIP HOLDERS AND SOCKET TIPS



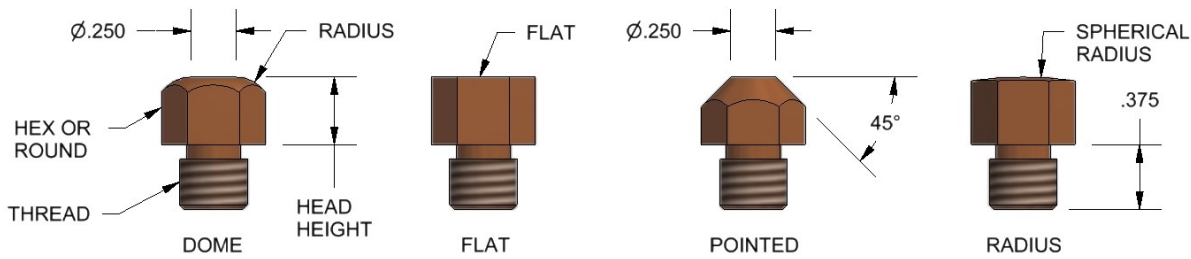
CLASS 2	C194	C195	C196	C197
CLASS 3	C194-CL3	C195-CL3	C196-CL3	C197-CL3



Paddle tip holders accept the socket tips above. They are useful for reaching welds with limited access. With a 4" offset and low head height, they can reach areas not accessible with standard offset holders. A bushing is used so the holder can fit 1-1/2" diameter holes.

SHANK DIA.	PART NUMBER	SHANK DIA.	PART NUMBER
3/4	CPH-75-4	1-1/4	CPH-125-4
7/8	CPH-88-4	1-1/2	CPH-150-4
1	CPH-100-4		

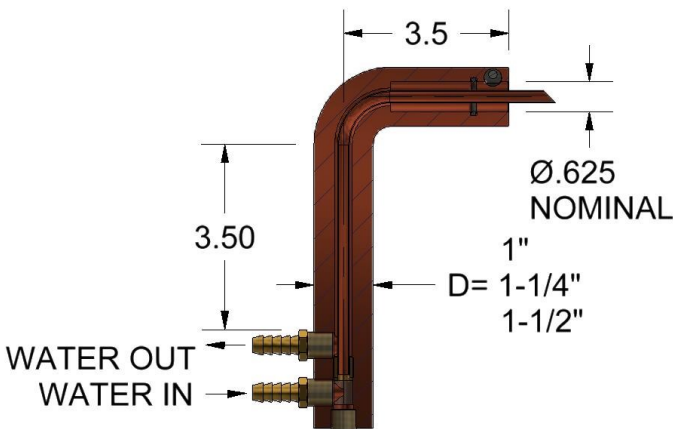
# THREADED TIPS



Threaded Tips	Shape	Button	Alloy	Hex Size	Thread	Height	Face	Additional Info.
	H = Hex R = Round	B = Button	150 181 182 180	37 = 3/8" 43 = 7/16" 50 = 1/2" 56 = 9/16" 62 = 5/8" 75 = 3/4"	25 = 1/4 - 20 31 = 5/16 - 18 37 = 3/8 - 16 43 = 7/16 - 14	25 = 1/4" 31 = 5/16" 37 = 3/8" 43 = 7/16" 50 = 1/2"	A = Pointed B = Dome C = Flat F = Radius	Diameter or Radius of Weld Face as Required.
Example:	H	B	182	50	37	37	F	2.0 (Radius Dia.)

Cadi Threaded Tips are highly customizable to fit a wide array of applications. Custom shapes and sizes are readily available.

# VARIABLE OFFSET HOLDERS

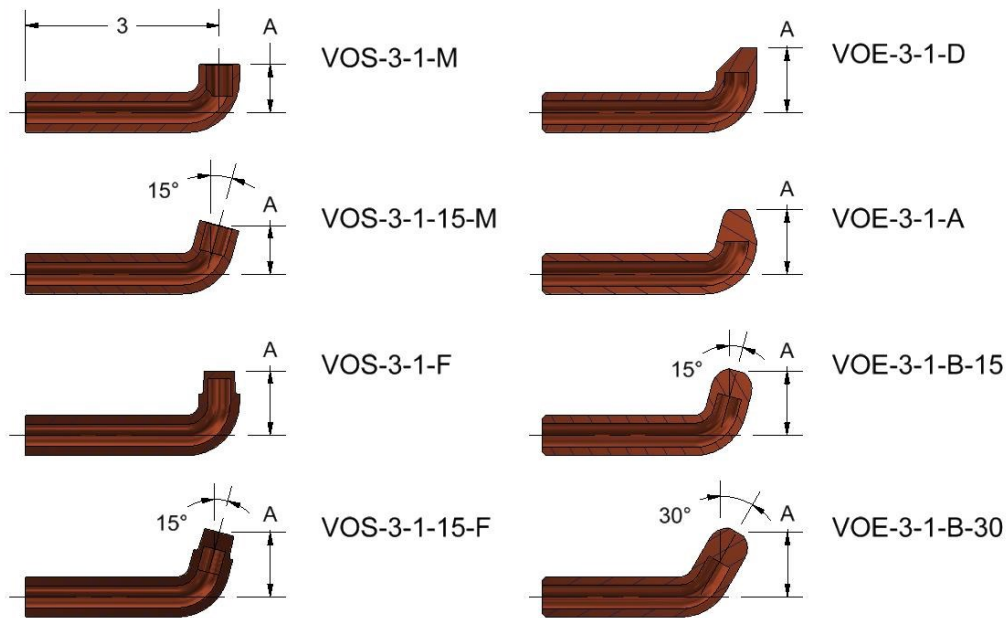


Cadi Variable Offset Holders allow the end user to set the amount of offset across a range, rather than a fixed amount as seen when using 2" or 4" offset holders. Total offset is between 4" and 5".

These holders can be made from Class 2 or 3 copper depending on the application.

Tips are straight shank. They are secured in position with a locking wedge.

# VARIABLE OFFSET ADAPTERS AND ELECTRODES



Straight shank electrodes are a one piece design. Straight shank cap adapters are a two piece design and can use any of the 5 RW caps seen on pages 5-6. Male cap adapters are made with a thru hole to get water to the cap. Female cap adapters have a blind hole reducing or eliminating spillage when changing caps.

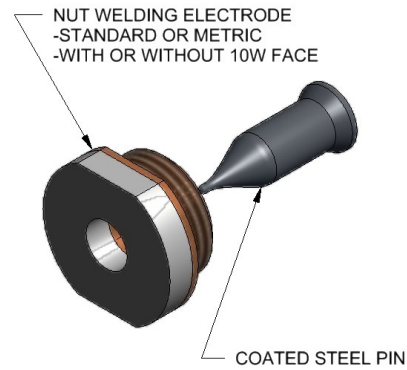
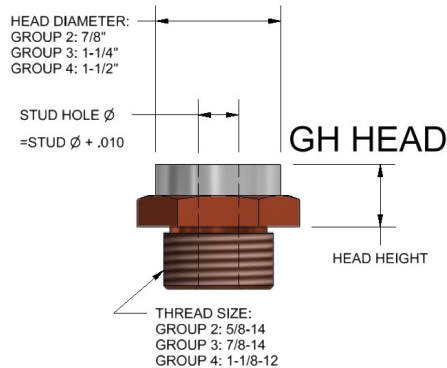
Straight shank electrodes are available with an "A" dimension of 1" or 2". Straight shank cap adapters have a nose length of 3/4" for male adapters and 1" for female adapters. All standard electrodes and adapters are 3" long to the center of the weld face or taper.

Standard material for these items is RWMA Class 2.

Special shapes, sizes and materials are available on request. Contact your Cadi representative for more information.



# STUD AND NUT WELDING ELECTRODES



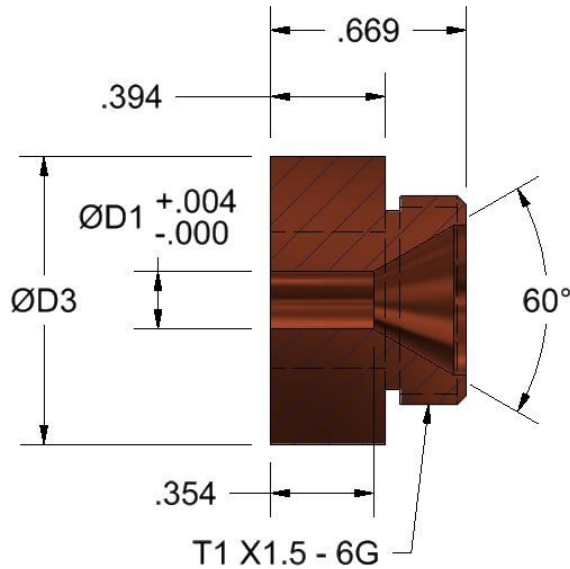
**SIZES FROM 4MM  
THROUGH 15MM.**

GH Head	Size	Head Height	Nut or Stud	Face Diameter	Hole Diameter
	Group 2 for Projection Ring Dia. of 7/8 or less Group 3 for Projection Ring Dia. of 1-1/4 or less Group 4 for Projection Ring Dia. of 1-1/2 or less	5 for 1/2" 6 for 5/8"	N= Nut S= Stud	08 = 7/8" 12 = 1-1/4" 15 = 1-1/2"	Hole Diameter = Stud diameter +.010 PIN diameter +.002
Example: GH -	2	5	S	08	323 (hole diameter for 5/16" stud)

Cadi manufactures the highest quality stud and nut electrodes available. Electrodes are available in RWMA Classes 1, 2, 3, and other Copper Alloys and can be faced with copper-tungsten, molybdenum, tungsten and other refractory metals. Hexagon, round with wrench flat, and special shapes and sizes are available.



# METRIC NUT WELDING ELECTRODES

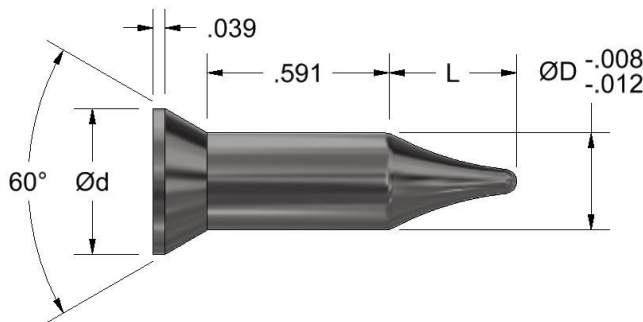


T1 X1.5 - 6G  
W/STANDARD UNDERCUT  
AND CHAMFER

Electrodes are available in RWMA Class 1, 2, or 3. Nut welding electrodes can be faced with copper-tungsten, molybdenum, or tungsten. Hexagon, round with wrench flat, and special shapes and sizes are available.

## NUT WELDING ELECTRODES

NUT	PART NUMBER	D3	D1	T1
4MM	CNWE-M04	25	5	18
5MM	CNWE-M05	25	6	18
6MM	CNWE-M06	25	7	18
7MM	CNWE-M07	25	8	18
8MM	CNWE-M08	25	9	18
9MM	CNWE-M09	25	10	18
10MM	CNWE-M10	30	12	22
11MM	CNWE-M11	30	12	22
12MM	CNWE-M12	30	13	22
13MM	CNWE-M13	30	14	22
14MM	CNWE-M14	32	15	26
15MM	CNWE-M15	32	16	26
16MM	CNWE-M16	32	16	26
16MM	CNWE-M16.5	32	16.5	26



Cadi guide pins are made to the highest standards. Our insulating coating process is designed to increase the life of the pin, while providing excellent electrical insulation.

We can make any special design you need, at the quantities you require.

Many pins are in stock and available for immediate delivery. Call your Cadi representative today for a competitive quote.

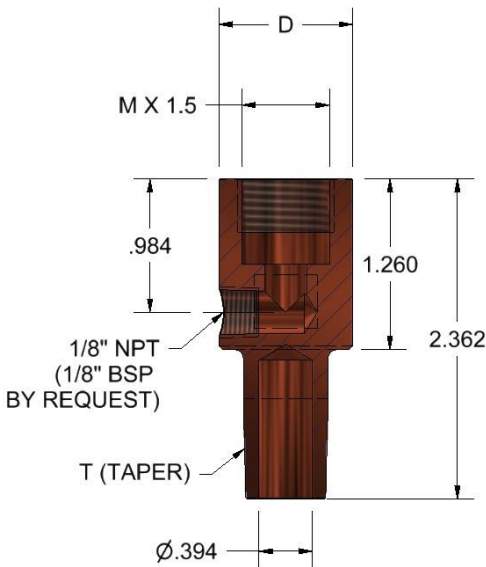
## METRIC GUIDE PINS

NUT	PART NUMBER	D	L	d
4MM	CGP-M04	5.0	5.5	12
5MM	CGP-M05	6.0	7.5	12
6MM	CGP-M06	7.0	9.5	12
7MM	CGP-M07	8.0	10.5	12
8MM	CGP-M08	9.0	11.0	12
9MM	CGP-M09	10.0	11.0	12
10MM	CGP-M10	11.0	12.0	16
11MM	CGP-M11	12.0	13.5	16
12MM	CGP-M12	13.0	15.0	16
13MM	CGP-M13	14.0	15.0	16
14MM	CGP-M14	15.0	16.0	21
15MM	CGP-M15	16.0	16.0	21
16MM	CGP-M16	17.0	17.0	21
16MM	CGP-M16.5	16.5	17.0	21



# METRIC NUT WELDING HOLDERS

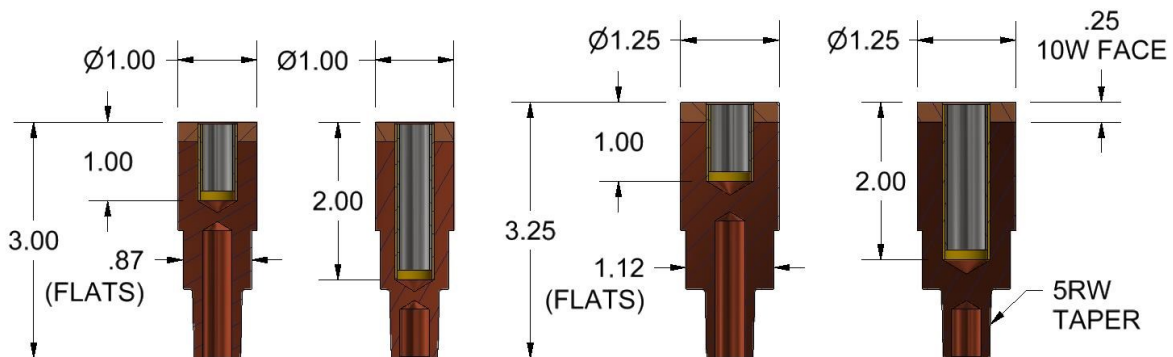
## LOWER ELECTRODE HOLDER



PART NUMBER	D	T	M THREAD
CNWH-25A	25MM	MT #1	18
CNWH-25B	25MM	1/10	18
CNWH-25C	25MM	MT #2	18
CNWH-25C-THD	25MM	5/8-11	18
CNWH-30A	30MM	MT #2	22
CNWH-30B	30MM	1/10	22
CNWH-35A	35MM	MT #2	26

Choose the holder required based on the thread of the nut welding electrode and taper of the machine's electrode holder. Cadi's Lower Electrode Holders are all made from RWMA Class 2. Threaded holder length will vary.

# STUD WELDING ELECTRODES



1" DEEP HOLE 1" DIAMETER			2" DEEP HOLE 1" DIAMETER			1" DEEP HOLE 1.25" DIAMETER			2" DEEP HOLE 1.25" DIAMETER		
SCREW SIZE	ID	PART NUMBER	SCREW SIZE	ID	PART NUMBER	SCREW SIZE	ID	PART NUMBER	SCREW SIZE	ID	PART NUMBER
6MM	.243	CSWE-236-1	6MM	.243	CSWE-236-2	.437	.444	CSWE-444-1	.437	.444	CSWE-444-2
.250	.256	CSWE-256-1	.250	.256	CSWE-256-2	12MM	.479	CSWE-479-1	12MM	.479	CSWE-479-2
.312 8MM	.319	CSWE-319-1	.312 8MM	.319	CSWE-319-2	.500	.506 .569	CSWE-506-1	.500	.506 .569	CSWE-506-2
.375	.381	CSWE-381-1	.375	.381	CSWE-381-2	.625	.652 .694 .777	CSWE-652-1 CSWE-694-1 CSWE-777-1	.625	.652 .694 .777	CSWE-652-2 CSWE-694-2 CSWE-777-2
10MM	.400	CSWE-400-1	10MM	.400	CSWE-400-2						

Cadi stud welding electrodes are made with a Class 2 body and a long-lasting 10W copper tungsten weld face. Insulation is made with long-life materials for extended service.



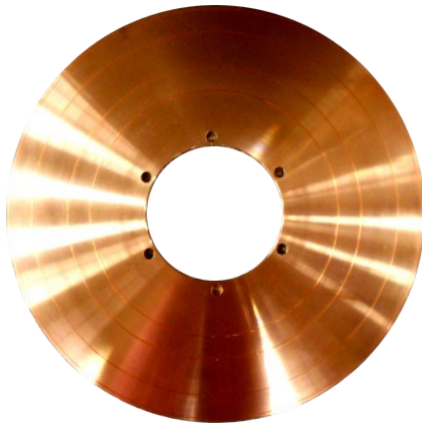
# SEAM WELD WHEELS AND BLANKS



**Cadi Company** is an ISO certified manufacturer and distributor of seam weld wheel blanks and finished wheels using RWMA Copper Alloys.

Cadi Company has:

- A tailored process for individually hot forging blanks consistent with best metallurgical processes.
- A proprietary process that yields maximum hardness while maintaining necessary ductility.
- A metallurgically engineered process that yields optimum grain structure.



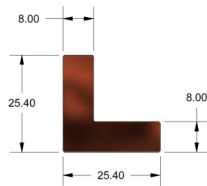
Cadi weld wheels are made from RWMA Class 2 (C18150 and C18200) and RWMA Class 3 (C18000 and C17510) copper alloys. Cadi Class 2 wheels are specially forged to increase hardness to R75<sub>b</sub> minimum. Wheel blanks are in stock to 30" in diameter. Machined forgings are available for:

- weld wheels and shafts
- flash/butt welding arms and dies
- various arms and platen mounts
- other custom parts from print

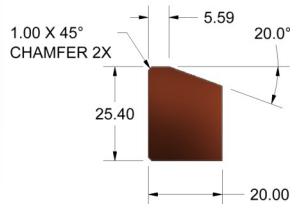
Cadi understands the metallurgical issues of seam welding wheel manufacturing. We have applied this knowledge to develop a proprietary process that consistently delivers quality seam welding wheels for demanding applications.

RWMA CLASS	UNS	Hardness R <sub>B</sub>	Electrical Conductivity %IACS	Applications
<b>Class 2</b>	C18200 CuCr	65 min	75 min	Hot-rolled steel
<b>Class 2 Premium</b>	C18150 CuCrZr	75 min	75 min	Coated Materials Galvanized Steel
	C18200 CuCr			Premium grade for hot- rolled steel used with higher pressures
<b>Class 3</b>	C18000 CuNiSiCr (Beryllium free)	90 min	45 min	Stainless Steel High temperature Steels
	C17510 CuNiBe			

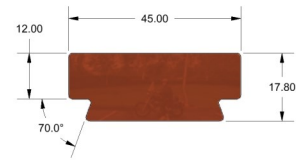
# METRIC WIRE MESH WELDING DIES



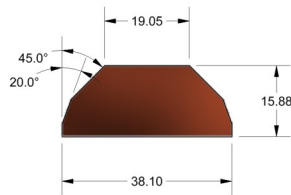
SP00199



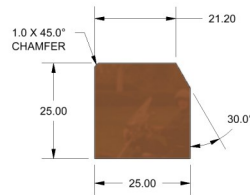
SP00196



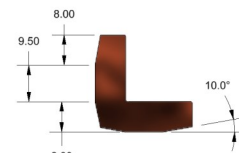
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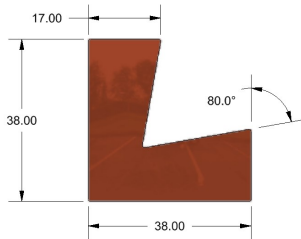
D-1



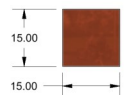
MG 215



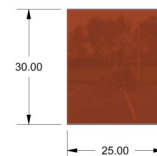
SP00199  
MOD 1



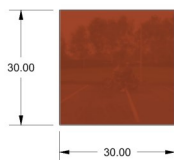
SP00202



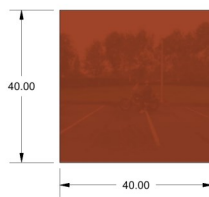
15 X 15



25 X 30



30 X 30



40 X 40



40 OCTAGON

Other standard shapes and custom designs may be made to order.

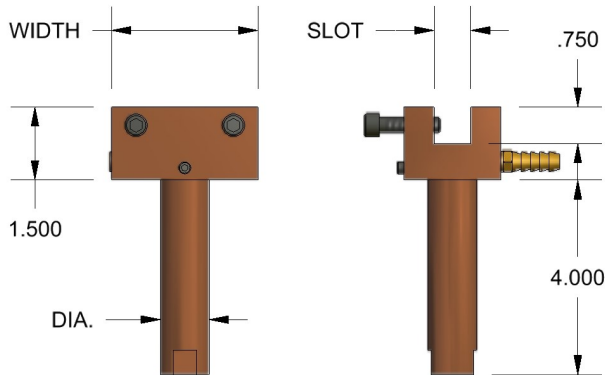
Cadi stocks a complete line of extruded and machined welding dies for various mesh welding machines. These shapes are primarily stocked in RWMA Class 3 (C18000). The material can be supplied as finished electrodes made to print or as bar stock ready for your individual application. Available in any length up to a 12 ft. mill length. Cadi has prints for dozens of various custom mesh welding electrodes, holders, shunts and other supports. Please request a copy of the **Cadi Mesh Welding Accessories Catalog** (available as pdf only) for a complete list of currently available parts.



# MULTI-TIP ELECTRODES



## GANG WELDING HOLDER

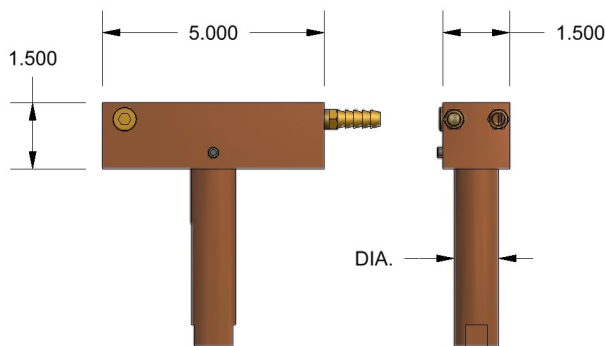


GANG WELDING ELECTRODE HOLDERS			
PART NUMBER	SLOT	DIAMETER	WIDTH
CGWH-430-01	3/4"	1"	2"
CGWH-430-02		1-1/4"	
CGWH-430-03		1-1/2"	
CGWH-430-04	1"	1"	2-1/4"
CGWH-430-05		1-1/4"	
CGWH-430-06		1-1/2"	

Cadi Gang Welding Electrode Holders are useful to increase your productivity in cross-wire welding. Various widths of electrodes are securely held in place ensuring even contact and a consistent electrical connection.

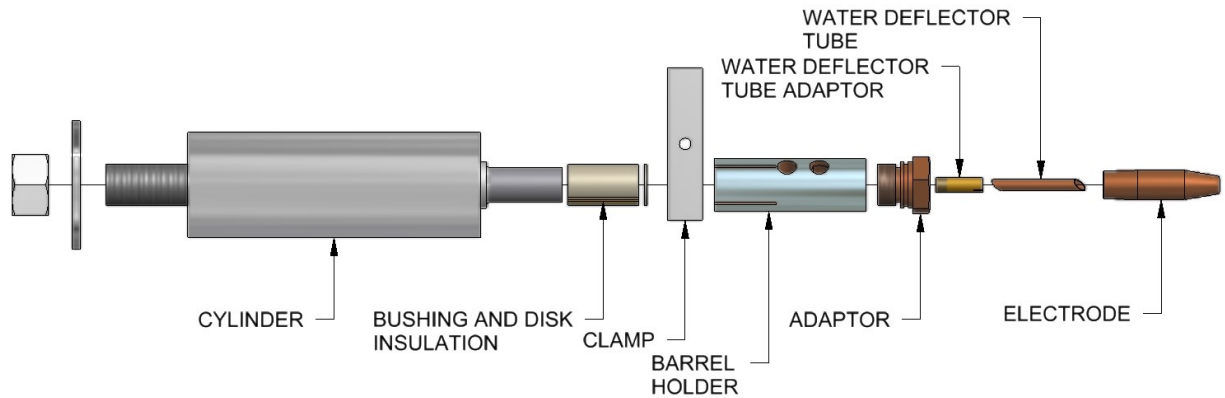
Cadi Gang Welding electrode holders may be ordered with or without water cooling.

## LOWER ELECTRODE FOR MULTI-TIP WELDING



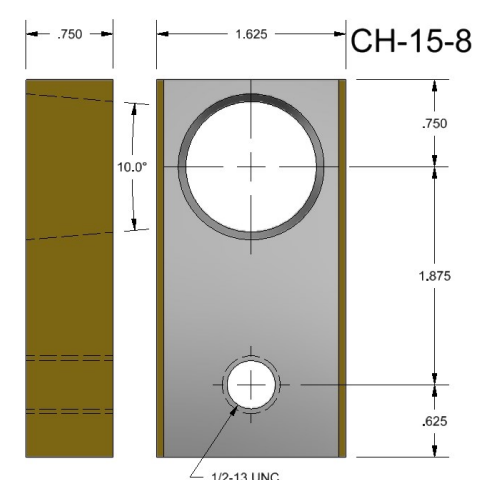
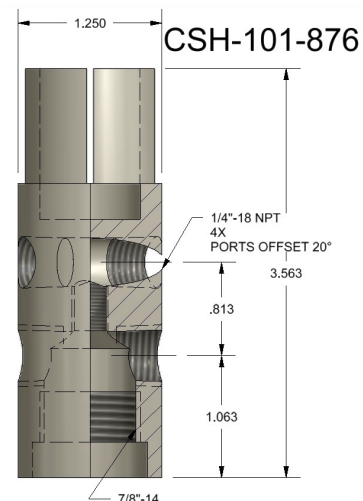
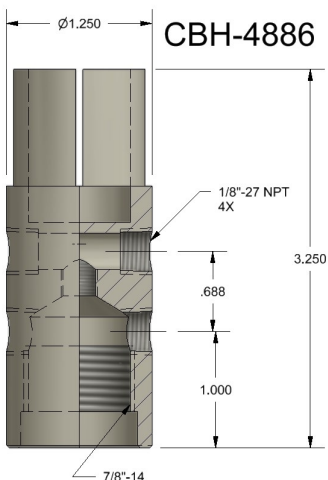
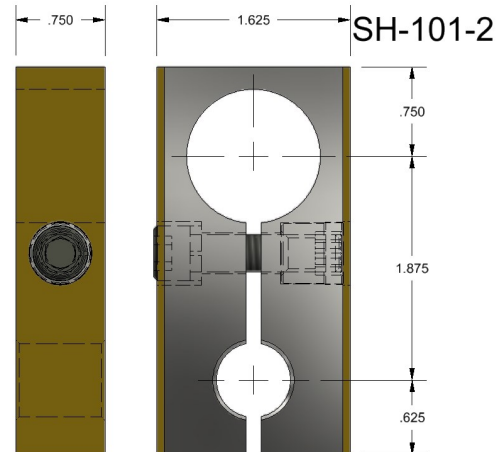
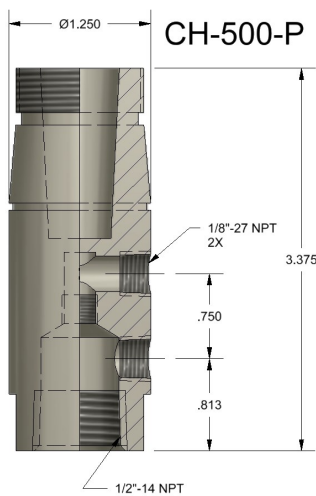
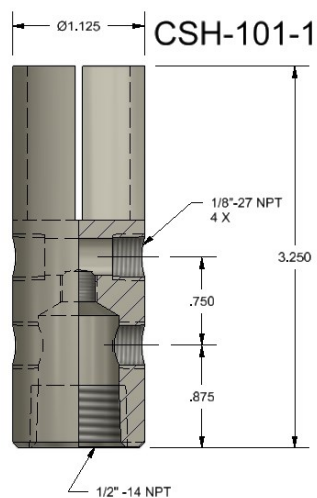
This large electrode has many uses. It's primary use is as a lower electrode to multi-tip upper electrodes. Two of these may be used to form a large surface to make multiple cross-wire welds. Large mass and water cooling ensure long life for high duty applications.

Electrodes are available in RWMA Class 1, 2, and 3 alloys and can be faced with copper-tungsten, molybdenum or tungsten. Special shapes and sizes are available.



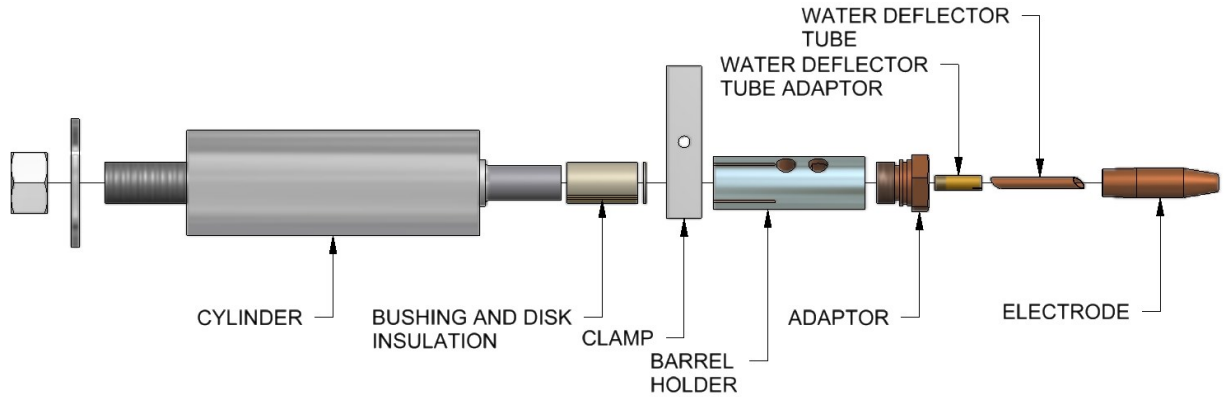
## STRAIGHT ELECTRODE HOLDERS

## CLAMPS/LUGS



Cadi offers straight holders and clamps in a variety sizes and shapes. Our straight holders and clamps are all silver plated for optimum conductivity. Adapter threads may NPT or straight with an O-ring. **PLEASE SEE THE CADI CYLINDER MOUNTED WELDING ACCESSORIES CATALOG FOR A COMPLETE LISTING.**

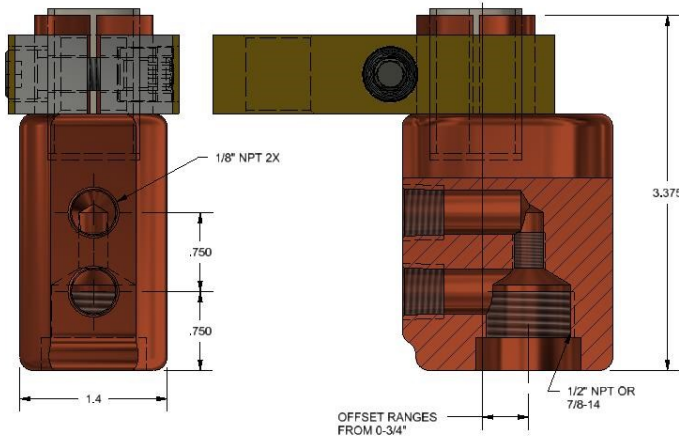




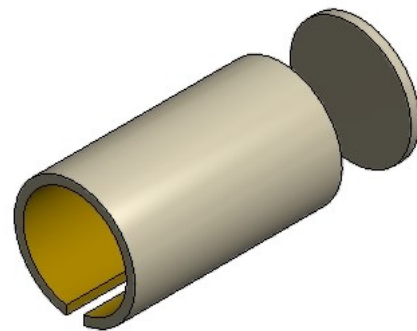
## OFFSET ELECTRODE HOLDERS

## STANDARD INSULATION

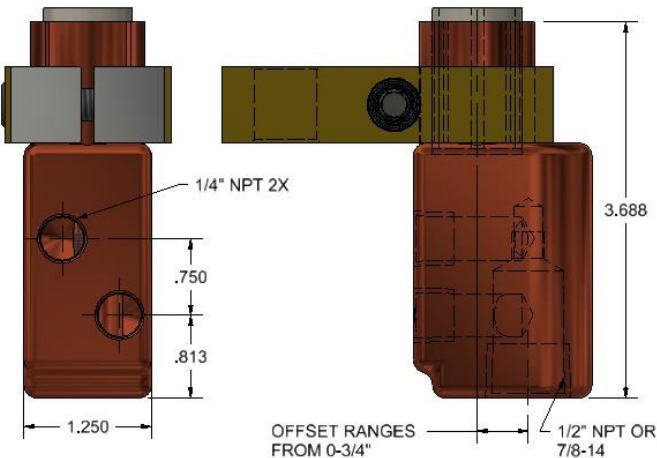
### SERIES 5 OFFSET HOLDER



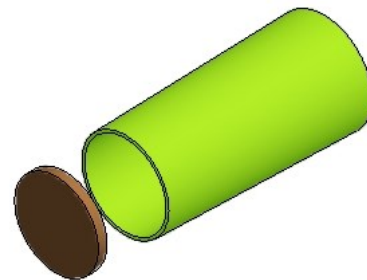
### CSH-101



### SERIES 6 OFFSET HOLDER

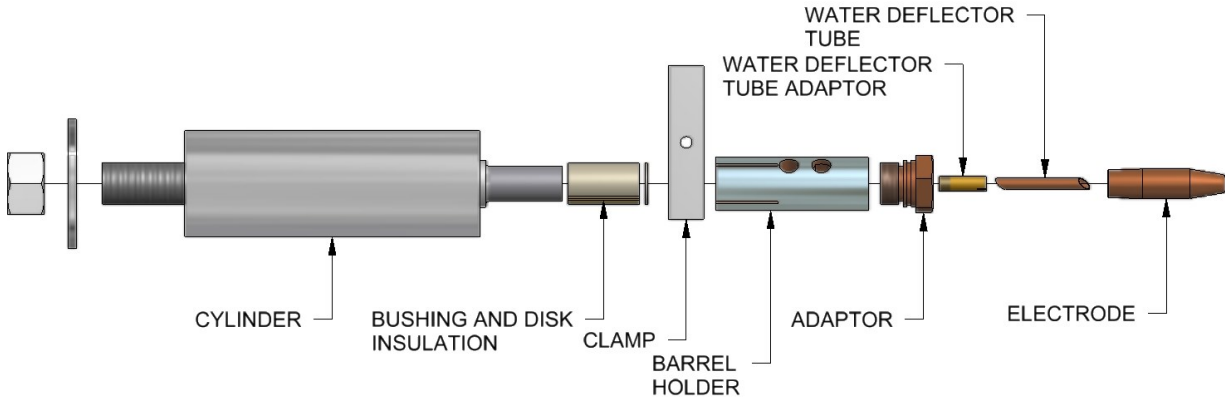


### SERIES H



Cadi manufactures a complete line of offset electrode holders. Many different heights and offsets are available. Adapter threads may be NPT or straight with an O-ring. **PLEASE SEE THE CADI CYLINDER MOUNTED WELDING ACCESSORIES CATALOG FOR A COMPLETE LISTING.**

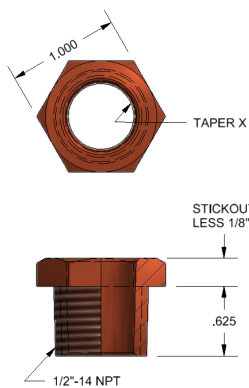
# CYLINDER MOUNTED WELDING ACCESSORIES



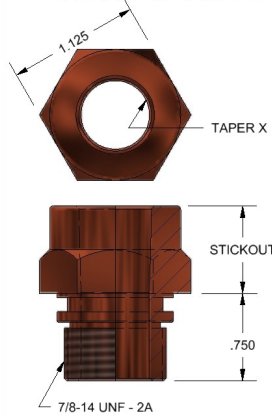
## ELECTRODE ADAPTORS

## WATER TUBES

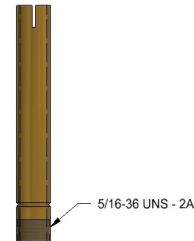
### 1/2" NPT THREAD



### STRAIGHT THREAD WITH O-RING



### WATER DEFLECTOR TUBE ADAPTOR



### WATER DEFLECTOR TUBE



1/2" NPT ADAPTORS		
Part No.	Length	Stickout
HA182-100-050P-087-4RW	7/8"	3/8"
HA182-100-050P-112-4RW	1-1/8"	1/2"
HA182-100-050P-137-4RW	1-3/8"	3/4"
HA182-100-050P-162-4RW	1-5/8"	1"
HA182-100-050P-187-4RW	1-7/8"	1-1/4"
HA182-100-050P-212-4RW	2-1/8"	1-1/2"
HA182-100-050P-237-4RW	2-3/8"	1-3/4"
HA182-100-050P-262-4RW	2-5/8"	2"

7/8"-14 ADAPTORS		
Part No.	Length	Stickout
HA182-112-087S-112-X	1-1/8"	3/8"
HA182-112-087S-125-X	1-1/4"	1/2"
HA182-112-087S-137-X	1-3/8"	5/8"
HA182-112-087S-150-X	1-1/2"	3/4"
HA182-112-087S-162-X	1-5/8"	7/8"
HA182-112-087S-175-X	1-3/4"	1"
HA182-112-087S-187-X	1-7/8"	1-1/8"
HA182-112-087S-200-X	2"	1-1/4"
HA182-112-087S-212-X	2-1/8"	1-3/8"
HA182-112-087S-225-X	2-1/4"	1-1/2"
HA182-112-087S-237-X	2-3/8"	1-5/8"
HA182-112-087S-250-X	2-1/2"	1-3/4"
HA182-112-087S-262-X	2-5/8"	1-7/8"

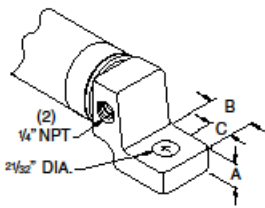
(X) = 4 for 4RW TAPER  
5 for 5RW TAPER

TUBE ADAPTOR	
Part No.	Length
CSF-101-6	3/4"
CSF-101-8	1"
CSF-101-10	1-1/4"
CSF-101-12	1-1/2"
CSF-101-14	1-3/4"
CSF-101-16	2"
CSF-101-18	2-1/4"
CSF-101-20	2-1/2"
CSF-101-22	2-3/4"
CSF-101-24	3"
CSF-101-26	3-1/4"
CSF-101-28	3-1/2"

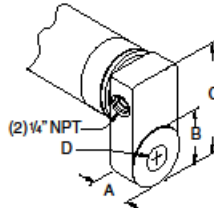
DEFLECTOR	
Part No.	Length
CSF-201-6	1-1/2"
CSF-201-8	2"
CSF-201-10	2-1/2"
CSF-201-12	3"
CSF-201-14	3-1/2"
CSF-201-16	4"
CSF-201-18	4-1/2"
CSF-201-20	5"
CSF-201-22	5-1/2"
CSF-201-24	6"
CSF-201-26	6-1/2"
CSF-201-28	7"

Cadi adapters and water tubes are made to the exact specifications you require. We make all of the standard lengths, and special lengths per your application. Straight thread adapters are supplied with the necessary O-ring. 5/8" NPT, 3/4" NPT, and 1"-12 straight threaded adapters are also available upon request. **PLEASE SEE THE CADI CYLINDER MOUNTED WELDING ACCESSORIES CATALOG FOR A COMPLETE LISTING.**

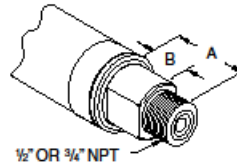
# WATER COOLED CABLES



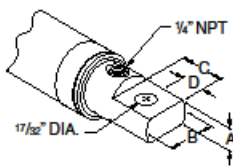
TYPE B



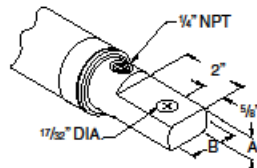
TYPE B-2



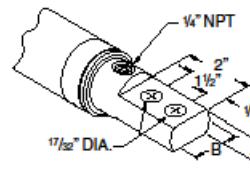
TYPE B-4



TYPE B-5



TYPE B-6

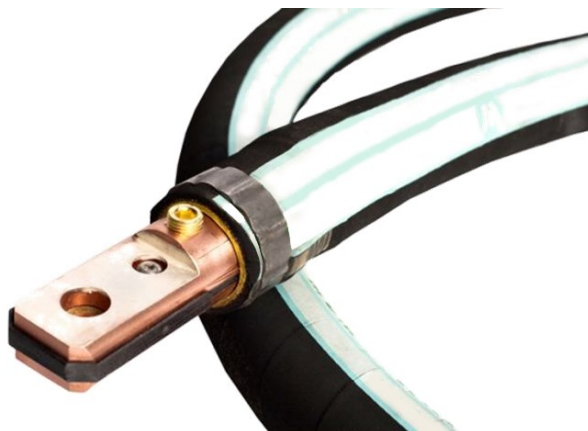


TYPE B-6 (2-HOLE)

## WATER COOLED:

All water cooled cables come equipped with a full length filter tube to ensure free flow water passage through the entire length of the cable. Extreme bending or kinking of the cable will not restrict water flow.

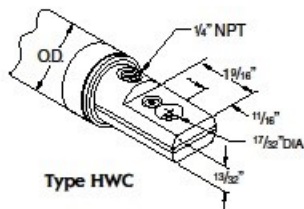
Cables are available from 350 MCM to 1000 MCM.



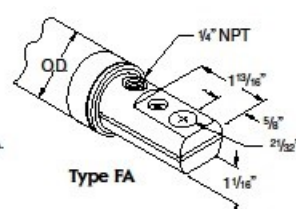
## KICKLESS:

A special design combines the low reactance feature of an alternate-polarity cross section with a unique connection on the terminal end. The result is a high-performance, long-life cable suitable for the high standards and demands of the automotive and appliance industries.

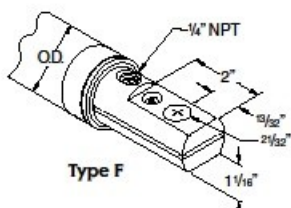
Cables are available from 300 MCM to 650 MCM.



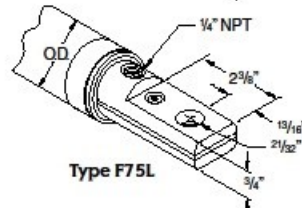
Type HWC



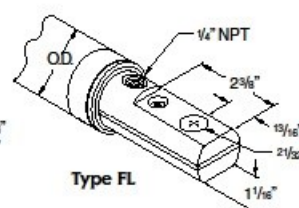
Type FA



Type F

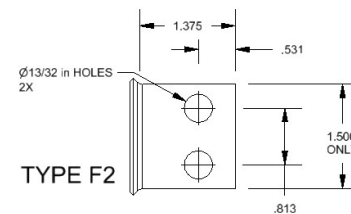
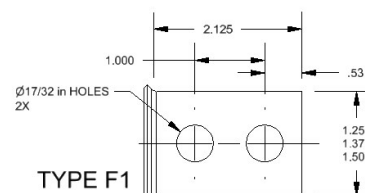
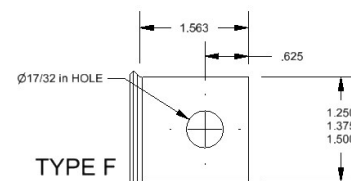
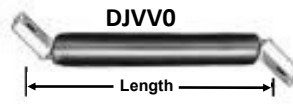
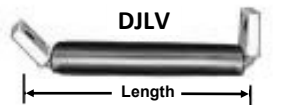
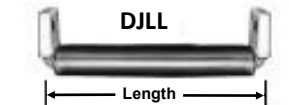
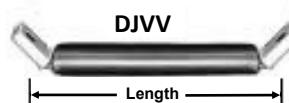
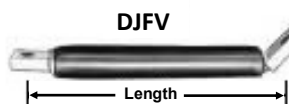
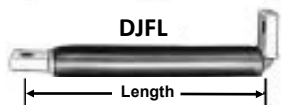
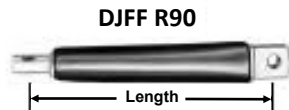
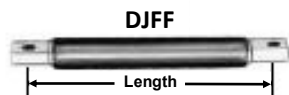


Type F75L



Type FL

## AIR COOLED CABLES



Air cooled cables (DJ) provide an economical alternative for lighter duty applications not requiring water cooled cables.

The length is measured from the bolt hole centers on straight or 45° terminals. On terminals with 90° bends, measure to the extreme outside edge. On terminals with two holes, measure to the center of the outer holes.

Standard terminal width is 1-1/4". 1-3/8" and 1-1/2" are available; specify when ordering.

Cables are also available as DJ-IC Isolated Conductor (each individual rope is in rubber tubing), DJ-SC Stabilized Collar (reduces strand failure at the cable terminal) and DJ-XF (36 AWG Copper Rope).

DJ-IC eliminates frictional wear by use of rubber tubing for each rope.

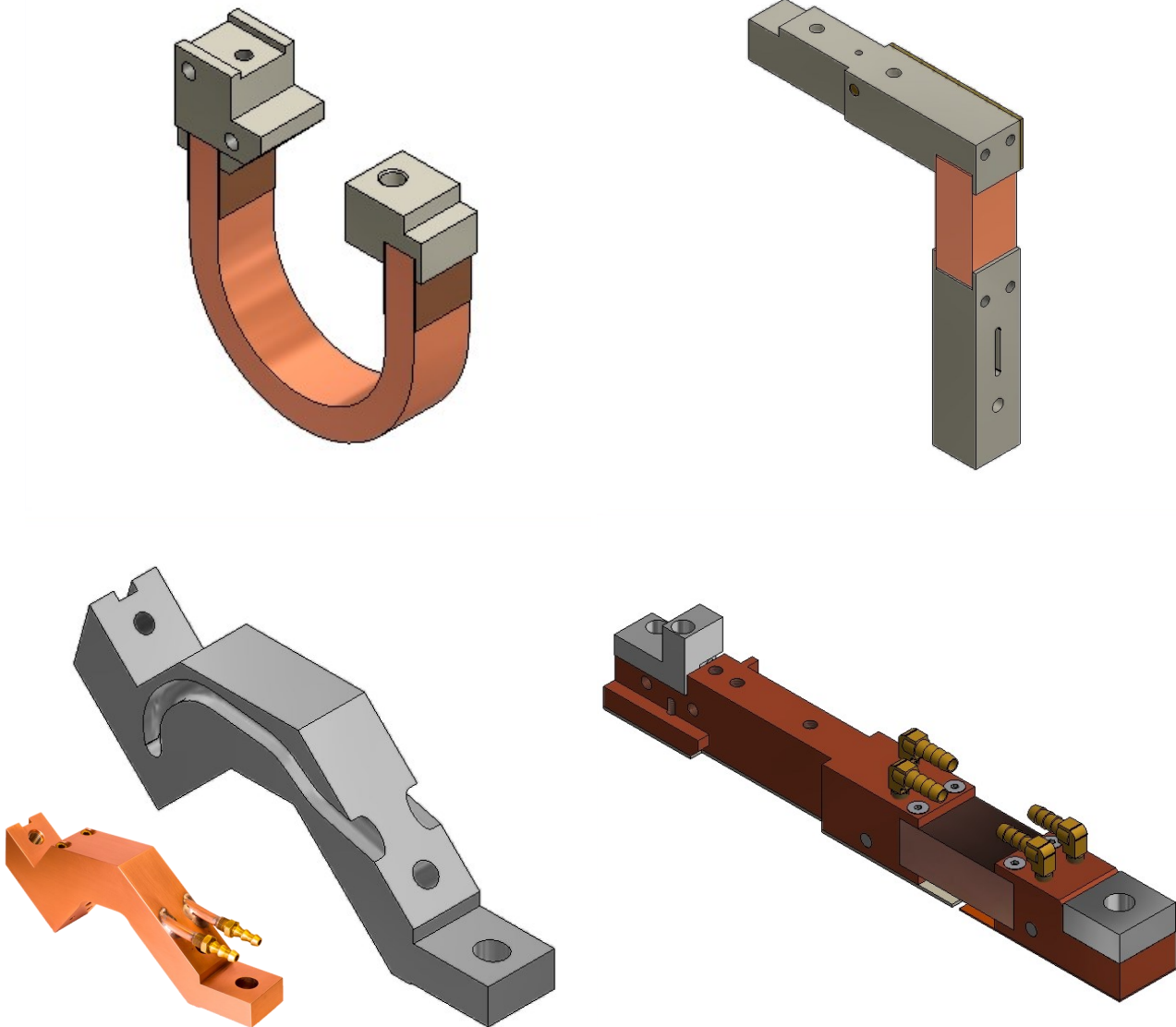
DJ-SC uses a Stabilizer Flare on the terminal to reduce stress on the cable ends. This significantly reduces strand failure at the terminal.

DJ-XF uses 36 AWG strand rope and an extremely flexible protective cover. The DJ-XF is twice as flexible as the standard DJ air cooled cable.

Air cooled cables are available from 350 MCM to 2000 MCM cross sections.



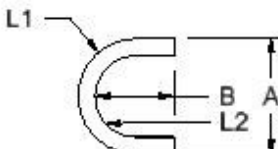
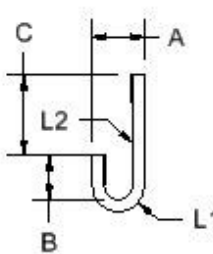
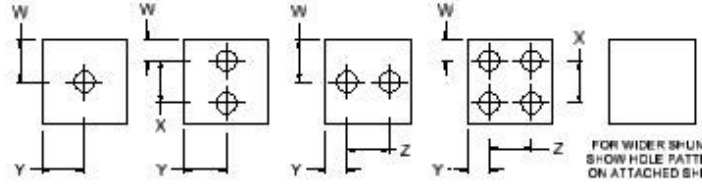
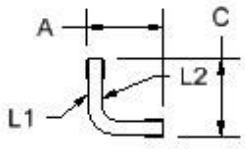
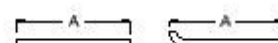


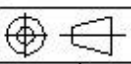

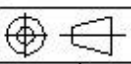

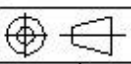
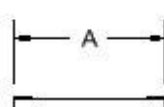
## SPECIAL APPLICATION LAMINATED SHUNTS



Cadi manufactures a wide assortment of special copper shunts. We can produce any shunt from your drawing, or reverse engineer the part from your sample.

We can also refurbish old shunts having worn or missing laminations. Very expensive shunts may not need to be replaced, just repaired.

# LAMINATED SHUNT SELECTION FORM

4	3	2	1	<b>SHUNT SPECIFICATIONS:</b>																							
 <p><b>"C" SHUNT</b></p>				TYPE: (CIRCLE ONE) PRESS WELDED    RIVETED STYLE (CIRCLE ONE): "C"    "J"    "L"    "V"    "FLAT" THICKNESS OF STACK _____ SHUNT WIDTH _____ A _____ B _____ C _____ LENGTH: L1 OUTSIDE LENGTH _____ L2 INSIDE LENGTH _____ MATERIAL THICKNESS: .005    .010																							
				 <p><b>"J" SHUNT</b></p>				 <p>PATTERN A    PATTERN B    PATTERN C    PATTERN D    OTHER</p> <p>HOLE PATTERN (CIRCLE ONE):                  A    B    C    D    OTHER                  DIMENSION: "W" _____ "X" _____ "Y" _____ "Z" _____                  HOLE DIAMETER _____                  END CLIP (.062" THICK STANDARD) (INDICATE STYLE WITH DIMENSION)</p>																			
 <p><b>"L" SHUNT</b></p>				DIMENSION: NO FLARE: _____ FLARE: _____  COVER OPTION: TEFLON    FIBERGLASS PLATING OPTION: SILVER    TIN    OTHER _____ QUANTITY: _____ COMPANY NAME: _____ ADDRESS: _____ CITY: _____ STATE _____ ZIP _____ PHONE: _____ FAX: _____ CONTACT NAME: _____ EMAIL ADDRESS: _____																							
				 <p><b>"V" SHUNT 45°</b></p>				<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="4" style="text-align: center;">TITLE</td> </tr> <tr> <td colspan="4" style="text-align: center;"><b>LAMINATED SHUNT FORM</b></td> </tr> <tr> <td colspan="2" style="text-align: center;"></td> <td colspan="2" style="text-align: center;">CADI COMPANY, INC. 60 RADO DRIVE NAUGATUCK, CT 06770</td> </tr> <tr> <td style="text-align: center;">SIZE</td> <td style="text-align: center;"></td> <td style="text-align: center;">DWG NO</td> <td style="text-align: center;">REV</td> </tr> <tr> <td style="text-align: center;">A</td> <td style="text-align: center;">SCALE</td> <td style="text-align: center;">SHEET 1</td> <td style="text-align: center;">OF 1</td> </tr> </table>				TITLE				<b>LAMINATED SHUNT FORM</b>						CADI COMPANY, INC. 60 RADO DRIVE NAUGATUCK, CT 06770		SIZE		DWG NO	REV
TITLE																											
<b>LAMINATED SHUNT FORM</b>																											
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SIZE		DWG NO	REV																								
A	SCALE	SHEET 1	OF 1																								
 <p><b>"FLAT" SHUNT</b></p>																											
4	3	2	1																								

Use the form above to specify your laminated shunt. Return to your Cadi representative for a fast, competitive quote.



Cadi supplies a wide range of weld controls for retro-fit or new installations.

Single phase, three phase, and mid-frequency are available.

Controls are available in many configurations and cabinet sizes:

- Single SCR
- Cascade (up to 8 SCRs)
- Multiple Controls in a Single Cabinet
- Flat Pack (No Cabinet)
- Constant Current
- With or Without a Circuit Breaker

Installation is available.



Water chillers are available in a wide assortment of sizes and configurations.

- Refrigerated Models Start at 2 Tons
- Self-Contained Recirculating Pumps
- Digital Temperature Controllers
- Vertical Air Discharge
- Cleanable Air Filters
- Brazed Plate Evaporator
- Powder Coated Cabinet

## COPPER ALLOY BAR STOCK



**Largest supply of ready-to-ship rod, bar, plate, all shapes and sizes.**

RWMA Class	UNS	Copper Alloy
Class 1	C15000	Copper Zirconium
Class 2	C18200	Copper Chromium
Class 2	C18150	Copper Chromium Zirconium
Class 3	C17510	Copper Nickel Beryllium
Class 3	C18000	Copper Nickel Silicon Chromium (Beryllium Free)
Class 4	C17200	Copper Beryllium
Class 20	C15760	Dispersion Strengthened Copper

**Cadi Company** is an ISO certified manufacturer and distributor of high conductivity copper alloys; we specialize in copper that is used to manufacture resistance welding components; such as welding wheels, electrodes, and numerous other applications that demand the performance beyond the capabilities of standard coppers.

### Typical Usages of RWMA Copper Alloys:

**Class 1:** Recommended for spot welding of coated steels and high conductivity materials, excluding copper and silver.

**Class 2:** Recommended for spot and seam welding, cold and hot rolled steels, coated materials, current carrying shafts and arms, back-up bars for both resistance and arc welding, and electrical current carrying structural parts.

**Class 3:** Recommended for spot and seam welding of high resistance alloys such as stainless steel. Other uses include flash welding dies, back-up bars, and projection welding electrodes.

**Class 4:** Recommended for flash and upset welding dies, projection welding and seam welding bushings and other applications requiring harder copper alloy.

**Class 20:** Welding of metallic coated metals, most commonly galvanized steel.



# REFRACTORY METALS



## Refractory metals

Copper is combined with tungsten or molybdenum to form these refractory metals. These combinations produce dense, hard metals with optimum wear resistance and strength at high temperatures. They also have good thermal and electrical conductivity. Refractory metals are used as facing material on spot welding electrodes where heat balance or mechanical wear resistance is needed. The additional cost of these refractory metals is outweighed by the lower production cost per weld due to longer tool life, less electrode dressing time, and high stability which provides uniform heating and prevents misalignments for higher weld quality.

RWMA Class	UNS	Copper Alloy
Class 10	10.74450	Copper Tungsten
Class 11	11.74400	Copper Tungsten
Class 12	12.74350	Copper Tungsten
Class 13	13.74300	Tungsten
Class 14	14.42300	Molybdenum

## Typical Uses of Refractory Metals:

**Class 10:** Recommend for flash and butt welding die inserts, spot welding low conductivity ferrous metals (for example stainless steel).

**Class 11:** Recommended for electrodes and die inserts in most flash and butt welding dies and for projection welding dies with moderate weld pressure and light electrical upsetting, electro-forging dies.

**Class 12:** Recommended for high volume projection welding dies with high pressure, electrical upsetting of non-ferrous metals and low carbon steel like die facings.

**Class 13:** Recommended for cross-wire welding of metals such as copper and brass. Also used for electro blazing electrode material and some electrical upsetting operations.

**Class 14:** Recommended for electro brazing electrode material and cross-wire welding of nonferrous metals. Also used as an electrode for welding or brazing of braided or solid copper conductors to ferrous or nonferrous terminals, lugs or fittings.

# COPPER ALLOYS PHYSICAL PROPERTIES

## Minimum Physical Properties for Copper Alloys Class 1 & 2

GROUP A COPPER BASE ALLOYS *		HARDNESS ROCKWELL (HRB) **		CONDUCTIVITY % I.A.C.S. ***		ULTIMATE TEN- SILE STRENGTH ksi		YIELD STRENGTH ksi 0.5% EXTENSION UNDER LOAD		ELONGATION % IN 2" OR 4 DIAMETERS	
SIZE RANGE		CLASS		CLASS		CLASS		CLASS		CLASS	
IN	MM	CLASS 1 C15000	CLASS 2 C18150 C18200	CLASS 1 C15000	CLASS 2 C18150 C18200	CLASS 1 C15000	CLASS 2 C18150 C18200	CLASS 1 C15000	CLASS 2 C18150 C18200	CLASS 1 C15000	CLASS 2 C18150 C18200
<b>DIAMETER—ROUND ROD STOCK (WROUGHT)</b>											
UP TO 1"	UP TO 25	65 HRB	75 HRB	80%	75%	60	65	45	55	13%	13%
OVER 1" TO 2"	OVER 25 TO 51	60 HRB	70 HRB	80%	75%	55	59	42	50	14%	13%
OVER 2" TO 3"	OVER 51 TO 76	55 HRB	65 HRB	80%	75%	50	55	40	45	15%	13%
OVER 3" TO 3-1/2"	OVER 76 TO 89	50 HRB	65 HRB	80%	75%	45	48	40	42	15%	13%
OVER 3- 1/2" TO 4"	OVER 89 TO 102	48 HRB	60 HRB	80%	75%	42	45	35	39	15%	13%
OVER 4" TO 4-1/2"	OVER 102 TO 114	--	60 HRB	--	75%	--	45	--	39	--	13%
<b>THICKNESS - SQUARE, RECTANGULAR AND HEXAGONAL BAR STOCK (WROUGHT)</b>											
UP TO 1"	UP TO 25	55 HRB	70 HRB	80%	75%	55	59	40	45	13%	13%
OVER 1"	OVER 25	50 HRB	65 HRB	80%	75%	50	55	38	40	14%	13%
<b>THICKNESS—FORGINGS</b>											
UP TO 1"	UP TO 25	55 HRB	65 HRB	80%	75%	60	55	--	--	12%	13%
OVER 1" TO 2"	OVER 25 TO 51	50 HRB	65 HRB	80%	75%	50	55	--	--	13%	13%
OVER 2"	OVER 51	50 HRB	65 HRB	80%	75%	50	55	--	--	13%	13%
<b>CASTINGS</b>											
ALL	ALL	NA	55 HRB	NA	70%	NA	45	NA	20	NA	12%

AWS J1.3/J1.3M-2020 Table 5

Note: Hardness and Conductivity test results shall be the basis for product acceptance.

On request, test results are available for Tensile Strength, Yield Strength and Elongation %.

\* All materials are in a fully heat treated condition unless otherwise specified.

\*\* Round Rod tested at mid radius in accordance with ASTM test method E18.

\*\*\* Conductivity = 1/0.058 (Resistivity) where: Conductivity is expressed in the units % IACS and resistivity is expressed in the units  $\mu\Omega\text{cm}$ .

# COPPER ALLOYS PHYSICAL PROPERTIES



## Minimum Physical Properties for Copper Alloys Class 3 & 4

GROUP A COPPER BASE ALLOYS *		HARDNESS ROCKWELL (HRB/HRC) **		CONDUCTIVITY % I.A.C.S. ***		ULTIMATE TEN- SILE STRENGTH ksi		YIELD STRENGTH ksi 0.2% OFFSET		ELONGATION % IN 2" OR 4 DIAMETERS	
SIZE RANGE		CLASS		CLASS		CLASS		CLASS		CLASS	
IN	MM	CLASS 3 C18000 C17510	CLASS 4 C17200	CLASS 3 C18000 C17510	CLASS 4 C17200	CLASS 3 C18000 C17510	CLASS 4 C17200	CLASS 3 C18000 C17510	CLASS 4 C17200	CLASS 3 C18000 C17510	CLASS 4 C17200
<b>DIAMETER—ROUND ROD STOCK (WROUGHT)</b>											
UP TO 1"	UP TO 25	90 HRB	33 HRC	45%	20%	95	165	75	130	9%	2.0%
OVER 1" TO 2"	OVER 25 TO 51	90 HRB	33 HRC	45%	20%	92	165	75	130	9%	2.0%
OVER 2" TO 3"	OVER 51 TO 76	90 HRB	33 HRC	45%	20%	88	165	75	130	9%	2.0%
OVER 3" TO 3-1/2"	OVER 76 TO 89	90 HRB	33 HRC	45%	20%	88	165	75	130	9%	2.0%
OVER 3- 1/2" TO 4"	OVER 89 TO 102	90 HRB	33 HRC	45%	20%	88	165	75	130	9%	2.0%
OVER 4" TO 4-1/2"	OVER 120 TO 114	90 HRB	33 HRC	45%	20%	88	165	75	130	9%	2.0%
<b>THICKNESS - SQUARE, RECTANGULAR AND HEXAGONAL BAR STOCK (WROUGHT)</b>											
UP TO 1"	UP TO 25	90 HRB	33 HRC	45%	20%	95	165	75	130	9%	2.0%
OVER 1"	OVER 25	90 HRB	33 HRC	45%	20%	90	165	75	130	9%	2.0%
<b>ANNEALED MATERIAL ****</b>											
ROUNDS		20 HRB	45 HRB	20% - 45%	15%-28%	--	--	--	--	--	--
<b>THICKNESS—FORGINGS</b>											
UP TO 1"	UP TO 25	90 HRB	--	45%	--	94	--	50	--	9%	--
OVER 1" TO 2"	OVER 25 TO 51	90 HRB	--	45%	--	90	--	50	--	9%	--
OVER 2"	OVER 51	90 HRB	--	45%	--	88	--	50	--	9%	--
<b>CASTINGS</b>											
ALL	ALL	90 HRB	33 HRC	45%	20%	75	150	45	120	5%	1.0%

AWS J1.3/J1.3M-2020 Table 5

Note: Hardness and Conductivity test results shall be the basis for product acceptance.

On request, test results are available for Tensile Strength, Yield Strength and Elongation %.

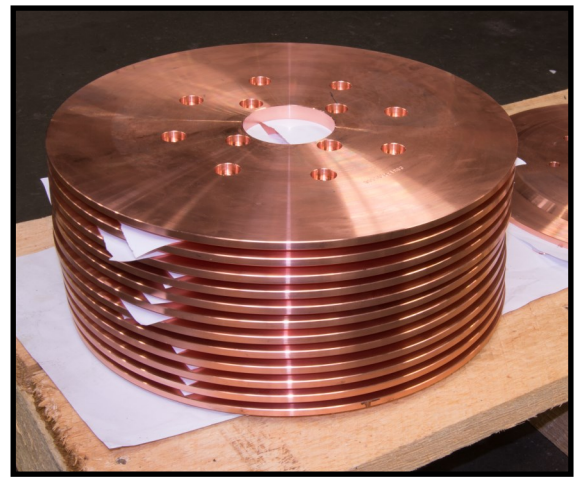
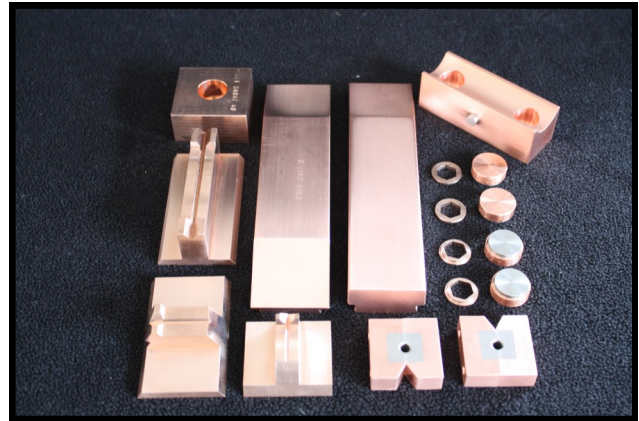
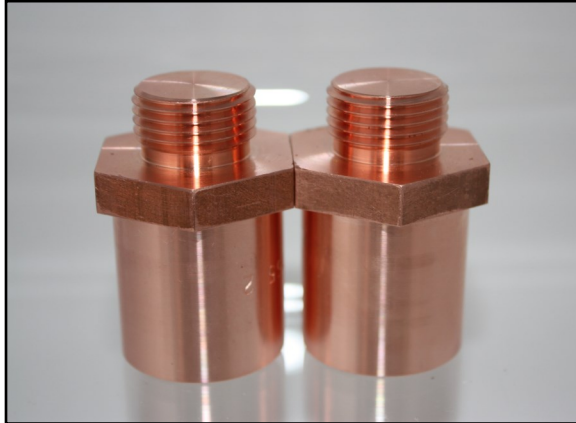
\* All materials are in the fully heat treated condition unless otherwise specified.

\*\* Rod and bar to be tested at mid radius in accordance with ASTM test method E18.

\*\*\* Conductivity =  $1/0.0058$  (Resistivity) where: Conductivity is expressed in the units % IACS and resistivity is expressed in the units  $\mu\Omega\text{cm}$ .

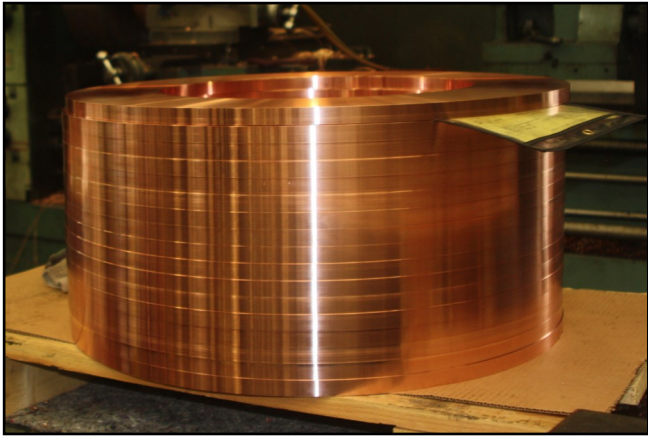
## RESISTANCE WELDING PRODUCTS

Cadi has the expertise, equipment, and material to make your most complicated parts. From one piece to 10,000 pieces, let Cadi be your source for resistance welding products.





# RESISTANCE WELDING PRODUCTS







# Cadi Company Inc.



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**Cadi Company, Inc. P.O. Box 1127, 60 Rado Drive, Naugatuck, CT 06770**  
**www.cadicompany.com 800-243-3650 203-729-1111**  
**Fax 203-729-1919**

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