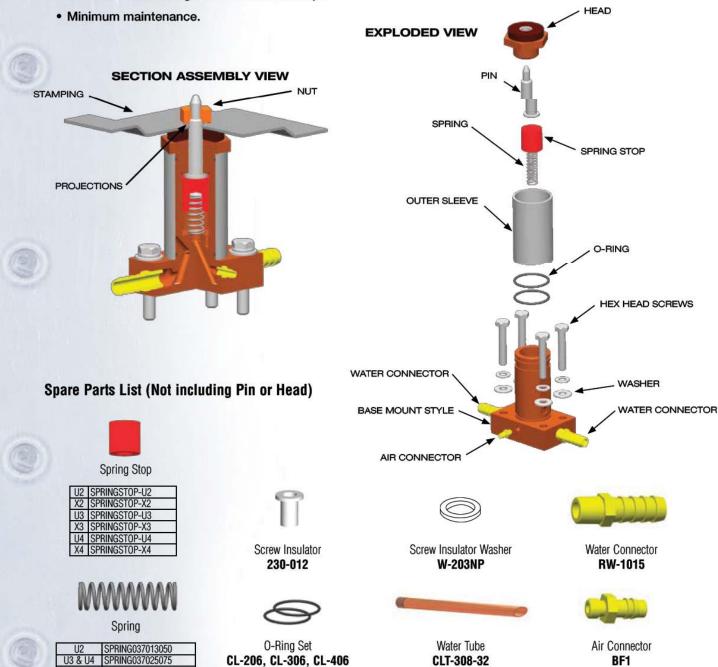


CenterLine manufactures a wide variety of stud & nut welding electrodes. The high quality design and assembly provides a number of features, and benefits including:

- Accurate on center positioning of pilotless nuts provded automatically.
- · Insulated pin and sleeve prevents pin arcing in the threads.
- · Unit converts from welding nuts to studs in secondsby removal of pilot pin and/or welding head.
- · Used by automotive, mass transit, farm implement, stamping and appliance manufacturers.
- Internal water cooling reduces heat build-up.



SPRING037032100

SPRING037034125

X2

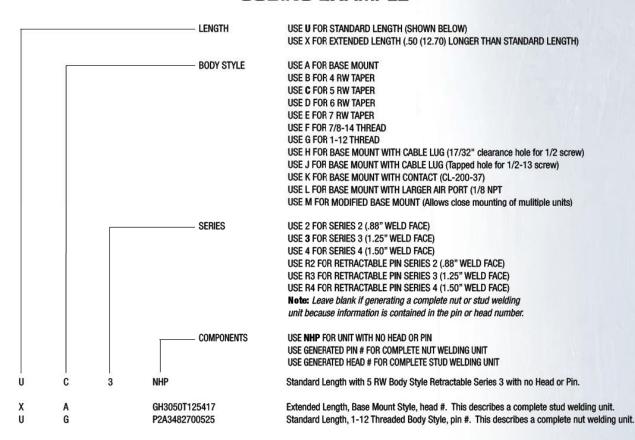
(1/4-28 thread; 4" long, 1/8" increments)



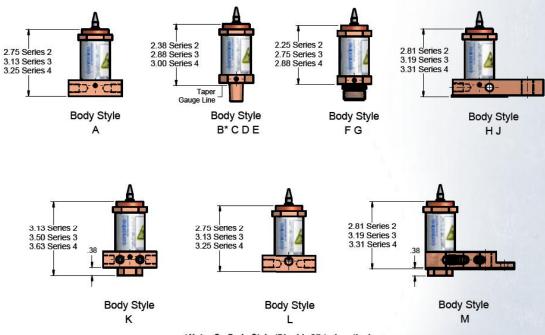


Stud & Weld Nut Model Number Breakdown

#### **CODING EXAMPLE**



#### STANDARD LENGTH OF SERIES BODY STYLES



\*Note: On Body Style 'B' add .25 to length shown.

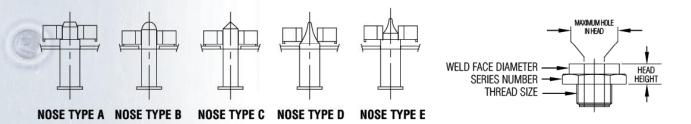


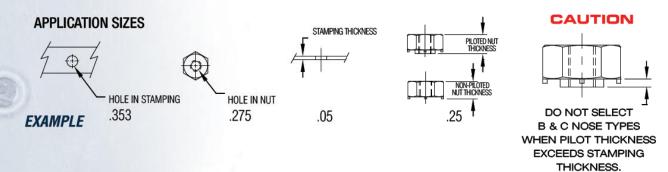
#### Manual Load Weld Nut Pins

PinType	Description			
GP Stainless Steel Pin, Supported by spring and/or air				
CP	CP Coated, D2 Steel Pin, Supported by spring and/or air			
RP	Retractable, Stainless Steel Pin, Movement controlled by Air Pressure only, Special Application please contact CenterLine			
KP	Coated Retractable, D2 Steel Pin, Movement controlled by Air Pressure only, Special Application please contact CenterLine			

Series	Thread Size	Weld Face Diameter	Hex Size	Maximum Hole in Head*	Head Height
2	5/8-18	7/8 Standard	1	0.427 (10.85) ID	0.500
3	7/8-14	1-1/4 Standard	1-3/8	0.642 (16.31) ID	0.500
4	1-1/8-12	1-1/2 Standard	1-5/8	0.852 (21.64) ID	0.625

Nose Type	Description		
Α	Preferred when locating nut and stamping, no stamping contact during weld, no hole in upper electrode		
В	Preferred when locating nut only, no stamping contact, no hole in upper electrode		
C	Preferred when locating nut only, no stamping contact, no hole in upper electrode		
D	Locates nut at a point on the pin nose. upper electrode requires clearance hole for pin tip		
E	Preferred when locating nut and stamping, no hole in upper, good for hard to load applications		





#### Generate Your Own Number (Total 14 Characters)

Example	GP	2	A	348	270	05	25
Breakdown	Pin Type	Series Number	Nose Type	Hole in Stamping005" (3 Dec.) - see note below	Hole in Nut005" (3 Dec.) - see note below	Stamping Thickness (2 Dec.)	Nut Thickness (2 Dec.)
NOTE: For B & C style pins, the "Hole in Stamping" value is the "Hole in Nut" value (i.e. GP2B2702700525)							
Part Number							

Contact CenterLine to obtain a pin number for a Smart Electrode unit.

### Southern Copper and Supply 800-289-2728

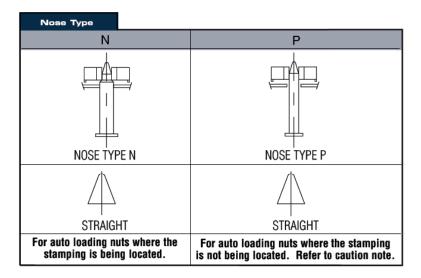


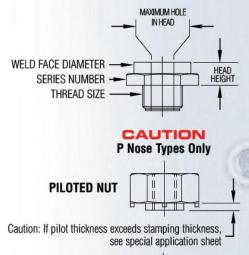


#### Auto Load Weld Nut Pins

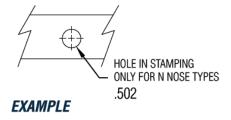
PinType	Description			
GA	Stainless Steel Pin, Supported by spring and/or air			
CA	CA Coated, D2 Steel Pin, Supported by spring and/or air			
RA	Retractable, Stainless Steel Pin, Movement controlled by Air Pressure only, Special Application contact CenterLine			
КА	Coated Retractable, D2 Steel Pin, Movement controlled by Air Pressure only, Special Application contact CenterLine			

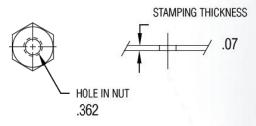
Series	Thread Size	Weld Face Diameter	Hex Size	Maximum Hole in Head*	Head Height
2	5/8-18	7/8 Standard	1	0.427 (10.85) ID	0.500
3	7/8-14	1-1/4 Standard	1-3/8	0.642 (16.31) ID	0.500
4	1-1/8-12	1-1/2 Standard	1-5/8	0.852 (21.64) ID	0.625

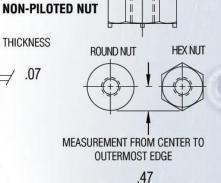




#### **APPLICATION SIZES**







#### Generate Your Own Number (Total 14 Characters)

Example	GA	3	N	497	357	07	47
Breakdown	Pin Type	Series Number	Nose Type	Hole in Stamping005" (3 Dec.) - see note below	Hole in Nut005" (3 Dec.) - see note below	Stamping Thickness (2 Dec.)	Measurement from Center to Outermost Edge (2 Dec.)
	NOTE: For P style pins, the "Hole in Stamping" value is the "Hole in Nut" value (i.e. GA3P3573570747)						
Part Number							

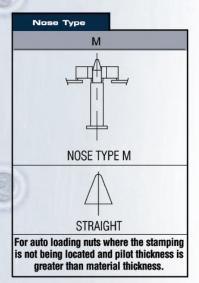
Contact CenterLine to obtain a pin number for a Smart Electrode unit.

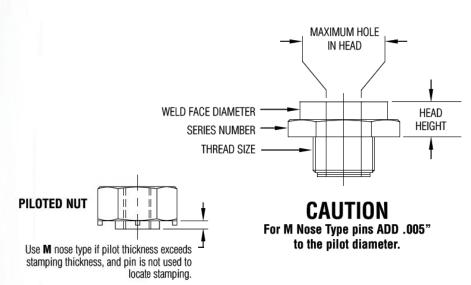


#### Special Application Auto Load Weld Nut Pins

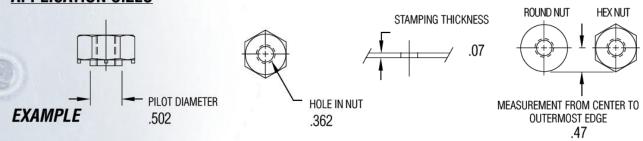
PinType	Description			
GA Stainless Steel Pin, Supported by spring and/or air				
CA Coated, D2 Steel Pin, Supported by spring and/or air				
RA	Retractable, Stainless Steel Pin, Movement controlled by Air Pressure only, Special Application please contact CenterLine			
KA Coated Retractable, D2 Steel Pin, Movement controlled by Air Pressure only, Special Application please contact CenterLine				

Series	Thread Size	Weld Face Diameter	Hex Size	Maximum Hole in Head*	Head Height
2	5/8-18	7/8 Standard	1	0.427 (10.85) ID	0.500
3	7/8-14	1-1/4 Standard	1-3/8	0.642 (16.31) ID	0.500
4	1-1/8-12	1-1/2 Standard	1-5/8	0.852 (21.64) ID	0.625





#### **APPLICATION SIZES**



#### Generate Your Own Number (Total 14 Characters)

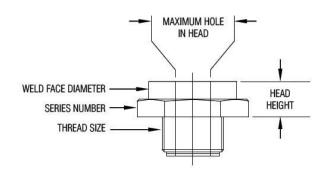
Example	GA	3	М	507	357	07	47
Breakdown	Pin Type	Series Number	Nose Type	Pilot Diameter + .005" (3 Dec.)	Hole in Nut005" (3 Dec.)	Stamping Thickness (2 Dec.)	Measurement from Center to Outermost Edge (2 Dec.)
Part Number							

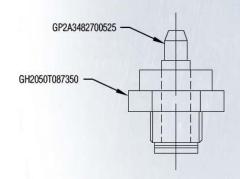
Do not generate your own pin number for a Smart Electrode unit; contact CenterLine.





Nut Welding Heads





Series	Thread Size	Weld Face Diameter	Hex Size	Maximum Hole in Head*	Head Height		
2	5/8-18	7/8 Standard	1	0.427 (10.85) ID	0.500		
3	7/8-14	1-1/4 Standard	1-3/8	0.642 (16.31) ID	0.500		
4	1-1/8-12	1-1/2 Standard	1-5/8	0.852 (21.64) ID	0.625		
	*Special weld nut electrodes are available for larger IDs and areas with clearance restrictions.						

# **EXAMPLE**Z (.348)

#### Pin # GP**2**A**348**2700525

#### PART NUMBER INSTRUCTIONS

Example: Z Dimension = .348

#### Step 1

Establish the major diameter of pin (Z dimension).

#### Step 2

The final 3 digits in the nut welding head # are represented by the following formula.

Z(.348) + .002 = .350

#### Step 3

Lastly, insert the result from Step 2 to the end of the series part number prefix below.

Final Nut Welding Head Number **Example** Series 2 - GH2050T087350

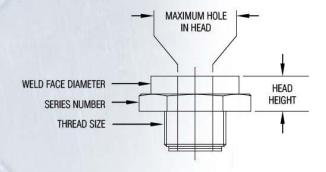
Series Number \_\_\_\_\_ Major Diameter of Pin (Z dimension)

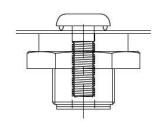
#### Generate Your Own Number (Total 13 Characters)

Series	Part Number Prefix	Z + .002" Specify to 3 decimal places.
2	GH2050T087	
3	GH3050T125	
4	GH4062T150	

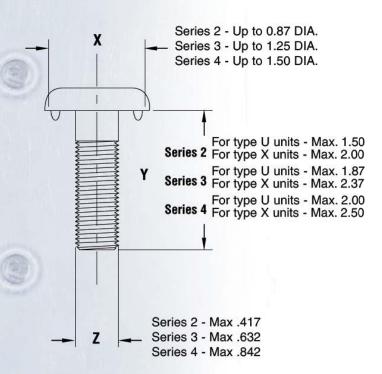


Stud Welding Heads





Series	Thread Size	Weld Face Diameter	Hex Size	Meximum Hole in Head*	Head Height
2	5/8-18	7/8 Standard	1	0.427 (10.85) ID	0.500
3	7/8-14	1-1/4 Standard	1-3/8	0.642 (16.31) ID	0.500
4	1-1/8-12	1-1/2 Standard	1-5/8	0.852 (21.64) ID	0.625



#### PART NUMBER INSTRUCTIONS

Example: X Dimension - .75 Y Dimension - 1.25

Z Dimension - .430

#### Step 1

In this case, X & Y indicates Series 2 however, Z dimension dictates Series 3 or larger.

#### Step 2

The final 3 digits in the stud welding head # is represented by the following formula.

$$Z(.430) + .010" = .440$$

#### Step 3

Lastly, insert the result from Step 2 to the end of the series part number.

Final Stud Welding Head Number Example Series 3 - GH3050T125440

#### Generate Your Own Number (Total 13 Characters)

Series	Part Number Prefix	Z + .010" Specify to 3 decimal places.
2	GH2050T087	
3	GH3050T125	
4	GH4062T150	

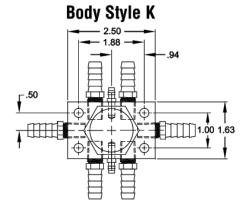


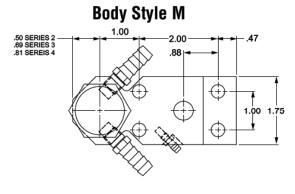
#### Mounting dimensions for base mount body styles

# **Body Style A** .50 1.00 1.63

## **Body Style H&J** .75 .75

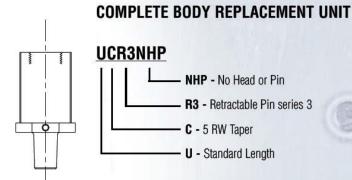
# **√**1.00

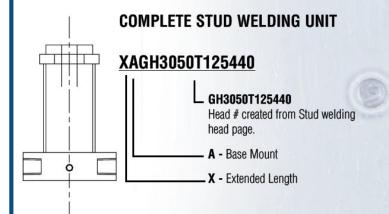




NOTE: Base units come with 1/4-20 screws for mounting & barb fittings.

#### Part number example





#### **COMPLETE NUT WELDING UNIT** UGGP2A3482700525 GP2A3482700525 Pin # created from manual load weld nut page. G - 1" - 12 Thread U - Standard Length