

Please email completed form to: [info@cntrline.com](mailto:info@cntrline.com)

Contact name:

Company:

End User:

Work Station:

Date:

Tel:

Email:

Quantity Desired:  CenterLine Representative:

**Important:** To ensure proper application, it is important that all supplied stamping and fastener dimensions be accurate and complete with tolerances.

## 1. Application, Part, and Weld Fastener Information

1.1. Is this a Nut or Stud application?   Fastener Part Number:

Manufacturer:

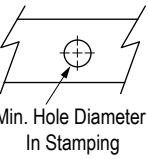

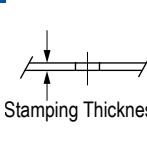
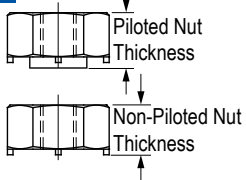
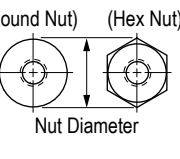
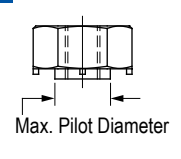
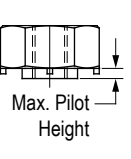
1.2. Fastener drawings are provided with this application:

1.3. General Details:

Units of Measurement Metric (2 dec.) Imperial (3 dec.)	Part Loading Robot Manual	Fastener Loading Auto Manual
--	---------------------------------	------------------------------------

### 1.3.1. Nut Dimensions

(Enter all corresponding dimensions below):

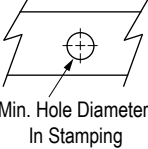
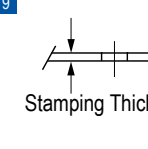
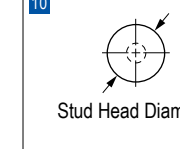
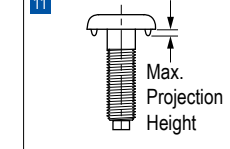
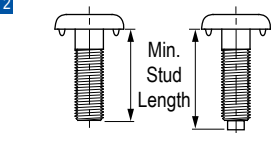
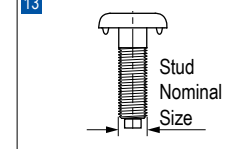
1  Min. Hole Diameter In Stamping	2  Min. Hole Diameter In Nut	3  Stamping Thickness	4  Piloted Nut Thickness Non-Piloted Nut Thickness	5  (Round Nut) (Hex Nut) Nut Diameter	6  Max. Pilot Diameter	7  Max. Pilot Height

**Note:** Please provide nut CAD drawings if available.

**OR**

### 1.3.2. Stud Dimensions

(Enter all corresponding dimensions below):

8  Min. Hole Diameter In Stamping	9  Stamping Thickness	10  Stud Head Diameter	11  Max. Projection Height	12  Min. Stud Length	13  Stud Nominal Size

**Note:** Please provide stud CAD drawings if available.

## 2. Additional Customer Comments

### 3. Weld Pin Information (For NUT Applications Only)

Use Pin to Locate Stamping

Yes  
No

Pin Material

Stainless  
Coated  
DuraPin™

Pin Nose Type (if known)

(Used for Manual feeding of the weld nut)					(Used for Automatic feeding of the weld nut)		
Nose A	Nose B	Nose C	Nose D	Nose E	Nose N	Nose P	Nose M
					 •Used when stamping is being located.	 •Used when stamping is <u>not</u> being located.	 •Used for piloted weld nuts for which the pilot height exceeds the stamping thickness. (See fields 7 and 3 in section 1.3.1. for illustration). <b>OR</b> •Used for non-piloted weld nuts.

Table 1 - Weld Nut Pin Type Symbols (For reference only)

Weld Nut Pin Type		Description
In MANUAL Nut Load Applications	In AUTO Nut Load Applications	
GP	GA	Stainless Steel Pin, Supported by spring and/or air.
CP	CA	Coated, D2 Steel Pin, Supported by spring and/or air
RP	RA	Retractable, Stainless Steel Pin, Movement controlled by Air Pressure only, Special Application. Please contact CenterLine.
KP	KA	Coated Retractable, D2 Steel Pin, Movement controlled by Air Pressure only, Special Application. Please contact CenterLine.

### Generate Your Own Weld Pin Number (14 Characters):

Model Number Breakdown:	Weld Nut Pin Type (see Table 1 above for symbols)	Series Number (must be consistent between Body, Pin, and Head)	Nose Type (see images above)	Hole in Stamping – 0.005" (3 Dec.) - see field 1 in section 1.3.1 and also the note below <b>NOTE:</b> For B, C, and P pin nose types, the "Hole in Stamping" takes the value of the "Hole in Nut". (e.g., GP2A2702700525)	Hole in Nut – 0.005" (3 Dec.) - see field 2 in section 1.3.1 and also the note below	Stamping Thickness (2 Dec.) (See field 3 in section 1.3.1)	Nut Thickness (for Manual Load Weld Nut Pin. Refer to field 4 in section 1.3.1) <b>OR</b> 1/2 x Nut Diameter (for Auto Load Weld Nut Pin. Refer to field 5 in section 1.3.1) (2 Dec.)
<b>Your Own Pin Part Number:</b>							
Example:	GP	2	A	348	270	05	25

↑ Note 1: The value in this field also represents the diameter "Z" of the weld NUT PIN shown in the drawing below (see Note 2).

### 4. Weld Head Information

Series \*

- 2 (0.87" Weld Face Diameter)
- 3 (1.25" Weld Face Diameter)
- 4 (1.50" Weld Face Diameter)

Weld Face Material

- RWMA Class 3
- RWMA Class 11

Table 2 - Weld Head Dimensions Based On Series Number (For reference only)

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

\* Special weld nut electrodes are available for larger IDs and areas with clearance restrictions. Please contact CenterLine.

\* See Table 2 on the right for dimensions.

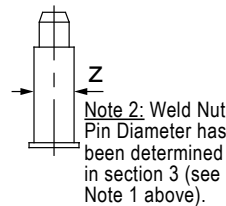
Info for Nut Applications  
(Weld Nut Pin Shown)

Info for Stud Applications (Weld Stud Shown)

Table 3 - Weld Stud Dimensions Based On Series Number (For reference only)

### Generate Your Own Weld Head Number (13 Characters):

Model Number Breakdown:	Series Number	Part Number Prefix	For Weld NUT Applications <b>Z + 0.002"</b> (3 Dec.)	For Weld STUD Applications <b>Z + 0.010"</b> (3 Dec.)
<b>Your Own Weld Head Part Number:</b>				
(Corresponds to the appropriate series number. Choose one horizontal row only)	2	GH2050T087		
	3	GH3050T125		
	4	GH4062T150		



Series	X (see field 10 in section 1.3.1)	Y (see field 12 in section 1.3.1)		Z (see field 13 in section 1.3.1)
		For Standard Length (U) Weld Body	For Extended Length (X) Weld Body	
2	Max 0.87" DIA.	Max 1.50"	Max 2.00"	Max 0.417"
3	Max 1.25" DIA.	Max 1.87"	Max 2.37"	Max 0.632"
4	Max 1.50" DIA.	Max 2.00"	Max 2.50"	Max 0.842"

Example for Series 3 NUT Weld Application: GH3050T125 350 (= 0.348" + 0.002")

Example for Series 3 STUD Weld Application: GH3050T125 440 (= 0.430" + 0.010")

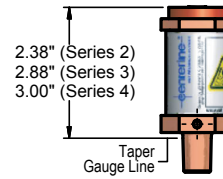
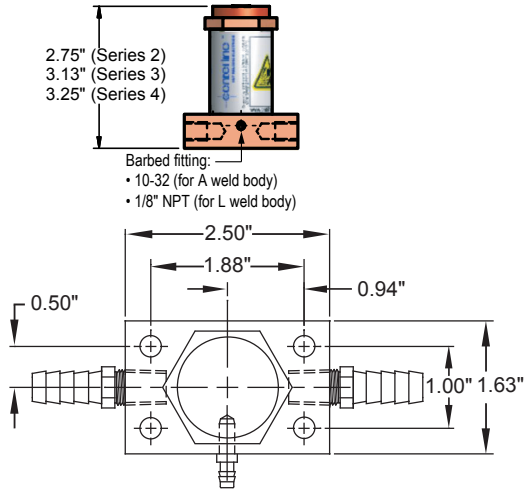
↑ Z (see Note 1 and Note 2 above)  
↑ Z (see Example in Table 3)

Ensure that all three stud dimensions (X, Y, Z) satisfy the chosen Series number. Choose a larger Series number if one of the dimensions does not fit the requirements. See example below.  
**Example:** X = 0.75", Y = 1.25", Z = 0.430". In this case, X and Y fit Series 2. However, Z requires Series 3 or larger, so Series 3 is chosen, with Z = 0.430". This Z dimension appears in the Weld Head Part Number example in the table on the left.

# 5. Weld Body\* Information

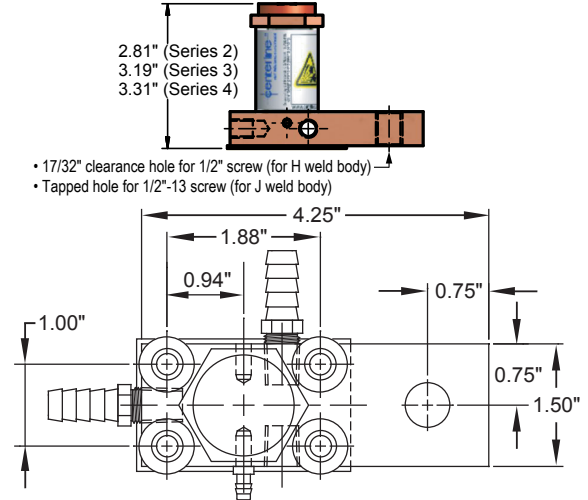
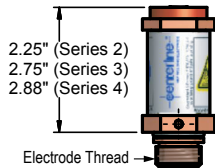
\* Standard length (U) weld bodies are shown on this page.  
 Extended length (X) weld bodies are .50" longer than standard length.

**A (Base Mount)**      **L (Base Mount)**      **B\*\* (for 4 RW Taper)**      **C (for 5 RW Taper)**      **D (for 6 RW Taper)**      **E (for 7RW Taper)**



\*\* On body style B, add .25" to the length shown.

**F (for 7/8"-14 electrode thread)**      **G (for 1"-12 electrode thread)**      **H (Base Mount with cable lug)**      **J (Base Mount with cable lug)**



**K (Base Mount with contact)**      **M (Modified Base Mount)**

