

# ARC WELD Studs

## Collar Stud Mild Steel

	BODY DIAMETER & THREAD PITCH			
	1/4-20	5/16-18	3/8-16	1/2-13
<b>Example Part No.</b>	CLC2150-2562	CLC2750-3162	CLC3350-3762	CLC4450-5062
<b>Min Thread Length</b>	.375	.375	.500	.625
<b>Min Base Length</b>	.500	.500	.500	.500
<b>Max Length</b>	Most sizes are made to order			
<b>Base Diameter</b>	.215"	.275"	.330"	.446"
<b>Collar</b>	<b>Thickness</b>	.093 ± .015"	.093 ± .015"	.125 ± .015"
	<b>Diameter</b>	.500 +.063 -.005	.625 +.063 -.005	.625 +.063 -.005
<b>Fillet</b>	<b>Height</b>	.12 ± .02"	.13 ± .02"	.13 ± .02"
	<b>Diameter</b>	.33 ± .02"	.39 ± .02"	.46 ± .02"
<b>After Weld Length Reduction (approx)</b>	.12"	.12"	.12"	.12"

STANDARD ACCESSORIES				
<b>Chuck</b>	C25	C31	C37	C50
<b>Grip</b>	G62	G62	G62	G75
<b>Foot</b>	FTM20	FTM20	FTM20	FTM20
<b>Ferrule</b>	25C	31C	37C	50C

MECHANICAL PROPERTIES				
(see appendix for calculation details particularly when comparing different manufacturers)				
<b>Min Working Tensile</b>	1,074 lb	1,770 lb	2,615 lb	4,789 lb
<b>Min Working Torque</b>	4.5 ft•lb	9.3 ft•lb	16.3 ft•lb	39.9 ft•lb
<b>Min Yield Torque</b>	5.4 ft•lb	11.1 ft•lb	19.6 ft•lb	47.9 ft•lb

Shear values aren't given for collar studs because the shear force is frequently off-set from the base. Therefore, shear value varies with each application.

A Collar Stud has a flange or collar formed in the middle of the fastener. This style of weld stud has many uses. It can be used as a stand off to set one metal sheet above another. Often, this style stud can be used when others are being considered. For example, a Collar Stud can replace Shoulder Studs and internally Tapped Studs in many applications. The advantage is that Collar Studs are less costly than other types of studs in similar sizes.

Please note that the base length *includes* the thickness of the collar. This style of stud comes in a wide variety of combinations of Base Length and Thread Length. Contact your Image Sales Representative or the Factory directly to find out if we already manufacture a collar stud for your application.



### IMAGE INDUSTRIES INC.

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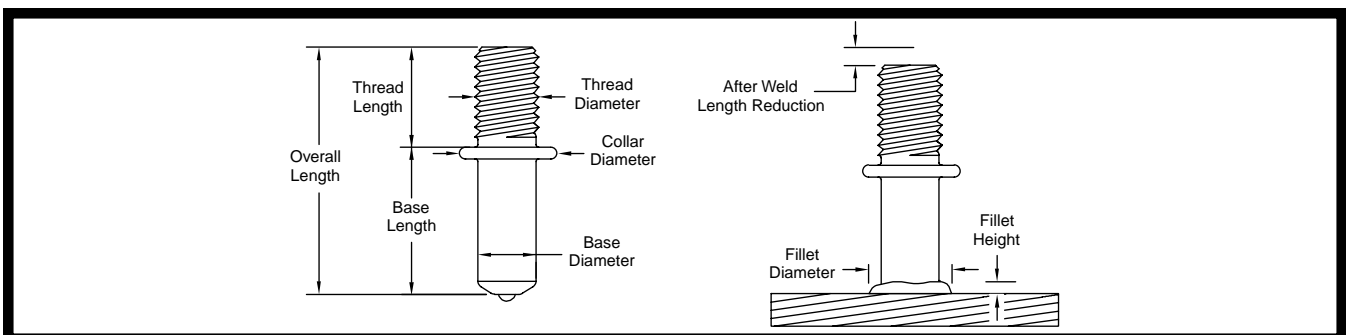
## Collar Stud Stainless Steel

DRAWN ARC WELD STUD

	BODY DIAMETER & THREAD PITCH			
	1/4-20	5/16-18	3/8-16	1/2-13
<b>Example Part No.</b>	CLS2150-2562	CLS2750-3162	CLS3350-3762	CLS4450-5062
<b>Min Thread Length</b>	.375	.375	.500	.625
<b>Min Base Length</b>	.500	.500	.500	.500
<b>Max Length</b>	Most sizes are made to order			
<b>Base Diameter</b>	.215"	.275"	.330"	.446"
<b>Collar</b>	<b>Thickness</b>	.093 ± .015"	.093 ± .015"	.125 ± .015"
	<b>Diameter</b>	.500 +.063 -.005	.625 +.063 -.005	.625 +.063 -.005
<b>Fillet</b>	<b>Height</b>	.12 ± .02"	.13 ± .02"	.13 ± .02"
	<b>Diameter</b>	.33 ± .02"	.39 ± .02"	.46 ± .02"
<b>After Weld Length Reduction (approx)</b>	.12"	.12"	.12"	.12"

STANDARD ACCESSORIES				
<b>Chuck</b>	C25	C31	C37	C50
<b>Grip</b>	G62	G62	G62	G75
<b>Foot</b>	FTM20	FTM20	FTM20	FTM20
<b>Ferrule</b>	25C	31C	37C	50C

MECHANICAL PROPERTIES				
(see appendix for calculation details particularly when comparing different manufacturers)				
<b>Min Working Tensile</b>	644 lb	1,062 lb	1,569 lb	2,873 lb
<b>Min Working Torque</b>	2.7 ft•lb	5.5 ft•lb	9.8 ft•lb	23.9 ft•lb
<b>Min Yield Torque</b>	3.3 ft•lb	6.7 ft•lb	11.8 ft•lb	28.8 ft•lb



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