

# NUTS

## SELF-CLINCHING

Steel & Stainless



SELF-CLINCHING NUTS										*PEM®				
Size	Catalog Part Number (Steel nuts)	PEM® Part Number (Steel nuts)	A		Hole Size in Sheet +.003, -.000	C	E	T	Performance Data in Cold-Rolled Steel					
			Shank Height	Sheet Thickness					Shank Diameter	Nut Diameter ±.01	Nut Height ±.01	Installation (lbs.)	Pushout (lbs.)	Torque Out (in.-lbs.)
4-40-0	04-0NCL	S-440-0-ZI	.030	.030	.166	.165	.25	.07	2500-3500	105	13			
4-40-1	04-1NCL	S-440-1-ZI	.038	.040	.166	.165	.25	.07		125	15			
4-40-2	04-2NCL	S-440-2-ZI	.054	.056	.166	.165	.25	.07		230	18			
4-40-3	-	S-440-3-ZI	.087	.091	.166	.165	.25	.07		230	18			
6-32-0	06-0NCL	S-632-0-ZI	.030	.030	.1875	.187	.28	.07	3000-6000	110	16			
6-32-1	06-1NCL	S-632-1-ZI	.038	.040	.1875	.187	.28	.07		130	20			
6-32-2	06-2NCL	S-632-2-ZI	.054	.056	.1875	.187	.28	.07		275	28			
6-32-3	-	S-632-3-ZI	.087	.091	.1875	.187	.28	.07		275	28			
8-32-0	08-0NCL	S-832-0-ZI	.030	.030	.213	.212	.31	.09	4000-6000	110	26			
8-32-1	08-1NCL	S-832-1-ZI	.038	.040	.213	.212	.31	.09		145	35			
8-32-2	08-2NCL	S-832-2-ZI	.054	.056	.213	.212	.31	.09		285	45			
8-32-3	08-3NCL	S-832-3-ZI	.087	.091	.213	.212	.31	.09		285	45			
10-24-0	10-0NCL	SS-024-0-ZI	.030	.030	.250	.249	.34	.09	4000-9000	120	32			
10-24-1	10-1NCL	SS-024-1-ZI	.038	.040	.250	.249	.34	.09		180	40			
10-24-2	10-2NCL	SS-024-2-ZI	.054	.056	.250	.249	.34	.09		250	60			
10-24-3	10-3NCL	SS-024-3-ZI	.087	.091	.250	.249	.34	.09		320	60			
10-32-0	11-0NCL	SS-032-0-ZI	.030	.030	.250	.249	.34	.09		120	32			
10-32-1	11-1NCL	SS-032-1-ZI	.038	.040	.250	.249	.34	.09		180	40			
10-32-2	11-2NCL	SS-032-2-ZI	.054	.056	.250	.249	.34	.09		250	60			
10-32-3	11-3NCL	SS-032-3-ZI	.087	.091	.250	.249	.34	.09		320	60			
12-24-1	12-1NCL	S-1224-1-ZI	.038	.040	.277	.276	.38	.13	3000-4000	195	73			
12-24-2	12-2NCL	S-1224-2-ZI	.054	.056	.277	.276	.38	.13		345	79			
12-24-3	12-3NCL	S-1224-3-ZI	.087	.091	.277	.276	.38	.13		345	79			
1/4-20-0	14-0NCL	S-0420-0-ZI	.045	.047	.344	.343	.44	.17	6000-8000	315	115			
1/4-20-1	14-1NCL	S-0420-1-ZI	.054	.056	.344	.343	.44	.17		400	150			
1/4-20-2	14-2NCL	S-0420-2-ZI	.087	.091	.344	.343	.44	.17						
1/4-20-3	14-3NCL	S-0420-3-ZI	.120	.125	.344	.343	.44	.17						
1/4-28-0	15-0NCL	-	.045	.047	.344	.343	.44	.17	3000-4000	370	105			
1/4-28-1	15-1NCL	S-0428-1-ZI	.054	.056	.344	.343	.44	.17						
1/4-28-2	15-2NCL	S-0428-2-ZI	.087	.091	.344	.343	.44	.17	6000-8000	420	165			
5/16-18-1	31-1NCL	S-0518-1-ZI	.054	.056	.413	.411	.50	.23			180			
5/16-18-2	31-2NCL	S-0518-2-ZI	.087	.091	.413	.411	.50	.23			180			
5/16-18-3	31-3NCL	S-0518-3-ZI	.120	.125	.413	.411	.50	.23			165			
5/16-24-1	32-1NCL	S-0524-1-ZI	.054	.056	.413	.411	.50	.23			180			
5/16-24-2	32-2NCL	S-0524-2-ZI	.087	.091	.413	.411	.50	.23			7000-11,000	460	320	
3/8-16-1	37-1NCL	S-0616-2-ZI	.087	.091	.500	.499	.56	.27	320					
3/8-16-2	37-2NCL	S-0616-3-ZI	.120	.125	.500	.499	.56	.27			320			

PEM® is a registered trademark of Penn Engineering. Our clinch nuts are not manufactured by or connected with the producers of PEM® nuts.

<b>Description</b>	A round, internally threaded, one-piece fastener with a shank protruding from the internal circumference, and a knurled clinching ring surrounding the shank. Both the shank and the clinching ring are integrally formed into the bottom side of the nut.	
<b>Applications/ Advantages</b>	Designed for use in thin sheet metal when load bearing threads are necessary. The nut is pressed into a pre-drilled or punched hole, then force is applied to the top of the nut until the bearing surface at the outside diameter of the bottom of the nut is flush with the sheet metal to which it is attached.	
<b>Material</b>	<i>Steel</i>	<i>Stainless Steel</i>
	Carbon steel	Type 303 stainless passivated to ASTM A 380
<b>Heat Treatment</b>	Nuts are case-hardened.	-
<b>Plating</b>	See Appendix-A for information on zinc plating.	None
<b>For Use In</b>	Can be installed into metals of Rockwell hardness of B80 max.	Can be installed into stainless sheets of Rockwell hardness of B70 max.