



| SELF-CLINCHING NUTS | | | | | | | | | | *PEM® | | |
|---------------------|----------------------------------|-------------------------------|--------------|-----------------|---------------------------------|----------------|-------------------|-----------------|---------------------------------------|----------------|-------------------|-----|
| Size | Catalog Part Number (Steel nuts) | PEM® Part Number (Steel nuts) | A | Sheet Thickness | Hole Size in Sheet +.003, -.000 | C | E | T | Performance Data in Cold-Rolled Steel | | | |
| | | | Shank Height | | | Shank Diameter | Nut Diameter ±.01 | Nut Height ±.01 | Installation (lbs.) | Pushout (lbs.) | Torque Out (lbs.) | |
| | | | Max | Max | | ±.01 | ±.01 | | | | | |
| 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 | |
| 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 | | | | |
| 5/16-18-1 | 31-1NCL | S-0518-1-ZI | .054 | .056 | .413 | .411 | .50 | .23 | 6000-8000 | 420 | 165 | |
| 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 | | | | |
| | | | | | | | | | | | | |

*Penn Engineering (PEM®) does not specify dimensions for the 1/4-20-0 size.

| | | |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Description | 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. | |
| Applications/Advantages | 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. | |
| Material | <i>Steel</i> Carbon steel | <i>Stainless Steel</i> Type 303 stainless passivated to ASTM A 380 |
| Heat Treatment | Nuts are case-hardened. | - |
| Plating | See Appendix-A for information on zinc plating. | None |
| For Use In | Can be installed into metals of Rockwell hardness of B80 max. | Can be installed into stainless sheets of Rockwell hardness of B70 max. |

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