

- * Cut - to - Length
- * 99% On-Time Delivery
- * Stocking Programs



- * Recut Capabilities
- * Deburring
- * Plating
- * Special Packaging

Quality Without Delay!

ASTM A513 - 06a Tolerances

STEEL TYPES

Hot Rolled Black Hot Rolled P&O

Cold Rolled AKDQ

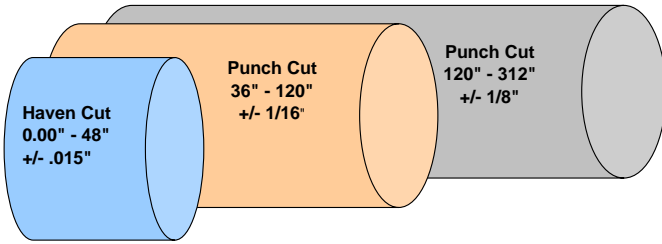
HSLA

| Grades | Carbon | Manganese | Phosphorus | Sulfur |
|----------|-----------|-----------|------------|----------|
| C 1006 | .08 Max | .45 Max | .030 Max | .035 Max |
| SAE 1006 | .08 Max | .25 - .40 | .040 Max | .050 Max |
| C 1008 | .10 Max | .50 Max | .035 Max | .035 Max |
| SAE 1008 | .10 Max | .30 - .50 | .040 Max | .050 Max |
| MT1010 | .02 - .15 | .30 - .60 | .035 Max | .035 Max |
| C 1010 | .08 - .13 | .30 - .60 | .035 Max | .035 Max |
| C 1020 | .17 - .23 | .30 - .60 | .035 Max | .035 Max |

Outside Diameter Tolerances

| Type | OD Range | Ga. Range | +/- |
|-----------------|----------------------|-----------|--------|
| Cold Rolled | 3/8 - 5/8, incl. | 24 to 16 | .003" |
| Cold Rolled | 3/4 - 1 1/8, incl. | 24 to 11 | .0035" |
| Cold Rolled | 1 1/4 - 2, incl. | 22 to 11 | .005" |
| Cold Rolled | 2 1/2 - 3, incl. | 20 to 11 | .008" |
| Hot Rolled | 1/2 - 1 1/8, incl. | 16 - 11 | .0035" |
| Hot Rolled | 1 1/4 - 2, incl. | 16 - 11 | .005" |
| Hot Rolled | 2 1/8 - 2 1/2, incl. | 16 - 11 | .006" |
| Hot Rolled | 2 5/8 - 3, incl. | 16 - 11 | .008" |
| Squares & Rect. | 1/2 - 5/8, incl. | 24 - 14 | .004" |
| Squares & Rect. | 3/4 - 1, incl. | 22 - 11 | .005" |
| Squares & Rect. | 1 1/4 - 1 1/2, incl. | 22 - 11 | .006" |
| Squares & Rect. | 1 5/8 - 2, incl. | 20 - 11 | .008" |
| Squares & Rect. | 2 1/8 - 3, incl. | 20 - 11 | .010" |

Length Tolerances



Standard Packaging Guide

| Rounds | Wood Collars | | | Hex Bundle |
|--------|--------------|-------|-------|------------|
| | 1 x 1 | 2 x 1 | 2 x 2 | |
| 3/8 | 1166 | 2350 | | |
| 7/16 | 848 | 1744 | | |
| 1/2 | 658 | 1330 | 2660 | 469 |
| 5/8 | 407 | 825 | 1688 | |
| 3/4 | 295 | 599 | 1197 | |
| 7/8 | 216 | 424 | 848 | 268 |
| 1 | 161 | 329 | 658 | 217/290 |
| 1 1/8 | 126 | 267 | 513 | |
| 1 1/4 | 105 | 222 | 426 | 169 |
| 1 1/2 | 75 | 155 | 295 | |
| 1 5/8 | 52 | 116 | 247 | 127 |
| 1.900 | 39 | 88 | 188 | 61 |
| 2 | | | | 91 |
| 3 | | | | 61 |

| Shapes | Wood Collars | |
|---------------|--------------|-------|
| | 1 x 1 | 2 x 1 |
| 1/2 x 1/2 | 576 | 1152 |
| 5/8 x 5/8 | 361 | 722 |
| 3/4 x 3/4 | 256 | 512 |
| 13/16 x 13/16 | 225 | 450 |
| 7/8 x 7/8 | 196 | 392 |
| 1 x 1 | 144 | 288 |
| 1 1/4 x 1 1/4 | 100 | 190 |
| 1 1/2 X 1 1/2 | 64 | 144 |
| 1 3/4 x 1 3/4 | | 78 |
| 2 x 2 | | 72 |
| 1/2 x 1 | 288 | 576 |
| 3/8 x 1 1/2 | 256 | 512 |
| 3/4 x 1 1/2 | 128 | 256 |
| 1 x 2 | 72 | 144 |
| 1 x 3 | | 96 |
| 1 1/2 x 2 1/2 | | 72 |

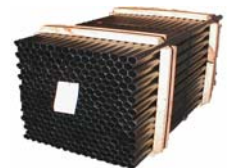
* 2500 Lb max lifts. ** Lengths under 30" packaged in gaylord containers.



Gaylord



Hex Bundles



Wood Collared 2 x 2

These are standard specifications. We can modify to fit your needs.