



# WINCO TGP

## Turned, Ground and Polished Heat-Treated High Tensile Alloy Steel

### Advantages

- Turned, ground and polished to precision sizes so it is extremely accurate as to straightness and finish — almost ready for immediate installation.
- Will withstand shock and vibration to provide long life.
- Readily machinable with consistent hardness throughout upon delivery.
- All bars are delivered machine straightened and stress relieved to remove residual internal stresses.
- Heat-treated to 28/32 Rockwell “C” to develop high physical properties, other hardnesses can be obtained.
- Bars are specially prepared and oiled for safe shipment.
- Delivered with a diameter tolerance of  $+.000''/-0.002''$  or better.

### Physical Properties

Tensile Strength . . . . .	<b>160,000 PSI</b>
Yield Strength . . . . .	<b>135,000 PSI</b>
Elongation in 2" . . . . .	<b>20%</b>
Reduction of Area . . . . .	<b>60%</b>
Hardness . . . . .	<b>28-32 Rockwell “C”</b>

### Typical Applications

- |               |                       |               |
|---------------|-----------------------|---------------|
| • Arbors      | • Axles               | • Boring Bars |
| • Gears       | • Lead Screws         | • Pins        |
| • Piston Rods | • Set Screws          | • Shafting    |
| • Studs       | • Transmission Screws | • Tie Rods    |

Stock lengths from 12 to 24 feet.  
Diameters, special cut lengths and tolerances made to order.