

# PRESRITE NEAR NET GEAR TECHNICAL REPORT

*The 0.5 mm Stock Allowance (S. A.), Helical, near net gear is reducing costs for the gear manufacturer through the elimination of cutting equipment and processes.*

## Product Use:

*The 0.5 mm S. A., Helical, near net gear was developed for use on medium-pitch gears (4-12) D. P. for improved utilization of raw material, the elimination of rough hobbing, and improved mechanical properties.*

## Benefits Include:

- Lower Tooling Cost
- Longer Tool Life
- Reduced Cycle Times
- Shorter Thru-Put Times
- Improved Mechanical Properties
- Less Heat Treat Distortion
- Higher-Quality Finished Part



0.5 mm  
(.020)  
STOCK  
ALLOWANCE



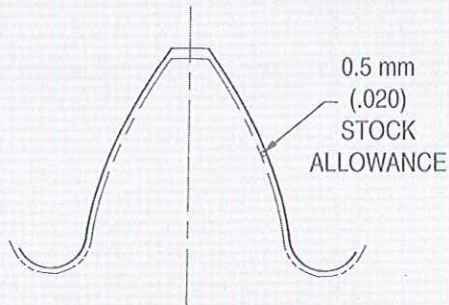
**Presrite Corporation**

Cleveland: 3665 East 78th Street, Cleveland, OH 44105, (216) 441-5990, Fax: (216) 441-2644

Cleveland: 7105 Bessemer Avenue, Cleveland, OH 44127 • Jefferson: 322 South Cucumber Street, Jefferson, OH 44047

Web Site: [www.presrite.com](http://www.presrite.com) • E-Mail: [info@presrite.com](mailto:info@presrite.com).

# NEAR NET GEAR SPECIFICATIONS



prescribe

## HELICAL

### Process Capability

<i>Lead Error Per Inch</i>	<i>.08 mm/.003</i>
<i>Circ. Tooth Thickness</i>	<i>± .1 mm/.004</i>
<i>Max. P. D. Runout</i>	<i>.3 mm/.012</i>
<i>Max. Involute Profile Variation</i>	<i>.16 mm/.006</i>
<i>Max. Index Variation (any two teeth)</i>	<i>.16 mm/.006</i>
<i>Over Pin Measurement</i>	<i>± .4 mm/.016</i>

### Specification

<i>Max. Workpiece Diameter</i>	<i>254 mm/10 inches</i>
<i>Max. Face Width</i>	<i>100 mm/4 inches</i>
<i>Pitch Range</i>	<i>6-2 mod./4-12 D.P.</i>
<i>Helix Angle Max.</i>	<i>25° max.</i>