

**Technical Specifications TG-12x3 and TG-12x4**

|                       |  | <b>Inches</b>  | <b>Metric</b>   |
|-----------------------|--|--|---|
| Capacity              | Infeed<br>Thrufeed<br>Length   | .002 to 1.5<br>.002 to 1.5<br>12 Feet on .5" Diameter  | .05 - 38<br>.05 - 38<br>366cm on 25mm Diameter  |
| Wheels<br>TG-12x4     | TG-12x4 Grinding Wheel Max<br>TG-12x4 Grinding Wheel Min<br>TG-12x4 Regulating Wheel Min<br>TG-12x4 Regulating Wheel Max | 12" Diameter x 4" Wide<br>10" Diameter x .25" Wide<br>4" Diameter x .125" Wide<br>6" Diameter x 4" Wide  | 304mm Diameter to 102mm wide<br>254mm Diameter to 6mm wide<br>102mm Diameter to 3.17mm wide<br>152mm Diameter to 102mm wide |
| Wheels<br>TG-12x3     | TG-12x3 Grinding Wheel Max<br>TG-12x3 Grinding Wheel Min<br>TG-12x3 Regulating Wheel Min<br>TG-12x3 Regulating Wheel Max | 12" Diameter x 3" Wide<br>10" Diameter x .25" Wide<br>4" Diameter x .125" Wide<br>6" Diameter x 4" Wide  | 304mm Diameter to 76mm wide<br>254mm Diameter to 6mm wide<br>102mm Diameter to 3.17mm wide<br>152mm Diameter to 76mm wide   |
| Regulating Wheel Head | Maximum Swivel for taper grinding<br>Maximum Angle of Tilt for thrufeed grinding   | 5 degrees to the left, 5 degrees to the right<br>6 degrees to the left, 6 degrees to the right   |   |
| Spindle Speeds        | Grinding Wheel<br>Regulating Wheel<br>Optional   | constant speed 2040 rpm, 6400 sf/m (32.5 meters / sec)<br>infinity variable from 20 - 500 rpm<br>variable speed grinding wheel system<br>Servo Regulating Wheel Drive System   |   |
| Electrical Equipment  | Main Drive<br>Coolant Pump<br>Hydraulic Pump<br>Transformer<br>Voltages Supported  | 7.5hp ( 10hp optional ) 1725 rpm double end spindle, totally enclosed, fan cooled<br>1/6 hp 3450 rpm, 12 gallon / minute at 5 psi / 45l / minute at .35kg / cm2<br>1/4 hp 1725 rpm, .5 gallon / minute at 50 psi / 1.9L / minute at 10.5kg / cm2<br>500 va |   |
| Hydraulic Tank        | 4 Gallon Capacity ( 15 Liters )  |  |   |
| Power Transmission    | Grinding Wheel<br>Regulating Wheel<br>Optional   | "V" Belts<br>Variable Speed Drive<br>Precision Balance Package<br>On-Line Grinding Wheel Balancing   |   |
| Coolant Equipment     | 3 Stage 40 Gallon Tank ( 151 Liters )  |  |   |
| Diamond Tools         | Grinding Wheel Dresser<br>Regulating Wheel Dresser   | 1ct.<br>1/3 ct   |   |
| Weight                | 2300 lbs (1272 kg)   |  |   |

