



GTW-22

22" Heavy Duty Engine Lathe

- + Hardened and ground Turcite® coated bed ways
- + Hardened and ground gear
- + 12-speed geared head spindle
- + Safety foot brake
- + Safety chuck guard
- + Coolant pump standard
- + Heavy duty 15-HP D1-11 spindle

Capacity & Dimensions

| | | |
|--|---------|---------|
| Swing over Bed | 22" | (560mm) |
| Center Height | 11" | (280mm) |
| Swing over Cross Slide | 14 1/8" | (360mm) |
| Swing thru Gap | 29 3/8" | (745mm) |
| Length of Gap in front of D1-11 face plate | 6 1/2" | (165mm) |
| Bed Width | 16 1/8" | (400mm) |

Spindle

| | | | | | | | | | |
|--|---------------|------------------|------|------|-----|-----|----|-----|----|
| Spindle Motor Horsepower | 15 HP | 12kw | HIGH | 1200 | 120 | 520 | 50 | 860 | 85 |
| Spindle Speeds - 12 speeds 15 - 1200rpm (high to low) | | | LOW | 375 | 35 | 160 | 15 | 265 | 25 |
| Spindle Bore | 4 1/8" | (105mm) | | | | | | | |
| Spindle Nose | D1-11 Camlock | (A1-11 optional) | | | | | | | |
| Spindle taper in Spindle Nose | MT-8 | Morse Taper #8 | | | | | | | |
| Spindle taper reduction sleeve provided | MT-5 | MT-8 to MT-5 | | | | | | | |
| Spindle Max Weight Capacity (Chuck Only) | 660 lbs | (300 kgs) | | | | | | | |
| Spindle Max Weight Capacity (Chuck and Tailstock) | 1650 lbs | (750 kgs) | | | | | | | |
| Spindle Max Weight Capacity (Chuck, Steady Rest & Tailstock) | 3300 lbs | (1500 kgs) | | | | | | | |

Carriage

| | | |
|-------------------------------------|-------------|----------------|
| Cross Slide Travel | 14.96" | (380mm) |
| Cross Slide Width | 7 3/32" | (180mm) |
| Cross Slide lead screw pitch | .200" / rev | |
| Cross Slide resolution per division | 0.001" | (on diameters) |
| Carriage Lead Screw Diameter | 1 1/2" | (38mm) |
| Carriage Lead Screw Pitch | 4 TPI | (6mm pitch) |

Compound

| | | |
|-----------------------------|-------------|---------------|
| Compound Top Side Travel | 10" | (255mm) |
| Compound Top Slide Width | 4 11/32" | (110mm) |
| Cutting Tool Height Maximum | 1.0" x 1.0" | (25mm x 25mm) |

Tailstock (2 speed quill advance)

| | | |
|--|----------|----------------|
| Quill Diameter | 2 15/16" | (75mm) |
| Quill Stroke | 6 5/16" | (160mm) |
| Quill Taper | MT-5 | Morse Taper #5 |
| Quill advance - 2 gear selected advance speeds | 1:1 2:1 | |
| Tailstock body set-over adjustment | ±0.04" | ±1mm |

Thread Cutting

| | | |
|---|-------------|--------------|
| Thread Cutting Range - 60 inch pitches | 2 -112 TPI | 2 -112 TPI |
| Thread Cutting Range - 60 metric pitches | 0.2 -14mm | 0.2 - 14mm |
| Thread Cutting Range - 50 diametral pitches | 4 -112 D.P. | 4 - 112 D.P. |
| Thread Cutting Range - 50 module pitches | 0.2 -7 M.P. | 0.2 -7 M.P. |

Feeds

| | |
|---------------------------------|--|
| Feeds - Longitudinal - 50 Feeds | 0.0014" - 0.0387"/ rev. (0.037 - 1.04mm / rev) |
| Feeds - Cross - 50 Feeds | 0.0007" - 0.01935"/rev. (0.0185 - 0.52mm/ rev) |
| Coolant System | 1/8 HP Pump Motor / 5 Gallon (20L) Tank Capacity |
| Power Requirements | 220 vac. / 3 Phase / 40 Amps (440 vac optional) |