



GTW-20

20" Heavy Duty Engine Lathe

- + Heavy duty 10-HP D1 - 8 spindle with 20" Swing
- + 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

Capacity & Dimensions

Swing over Bed	20"	(510 mm)
Center Height	10"	(255 mm)
Swing over Cross Slide	13"	(330 mm)
Swing thru Gap	26-3/8"	(680 mm)
Length of Gap in front of D1 - 8 face plate	7-1/16"	(180 mm)
Bed Casting - width / height	16-1/8" / 12-7/32"	(400 mm / 310 mm)

Spindle

Spindle Motor Horsepower	10 HP 3 Phase	+	1,550	150	680	60	1,100	100
Spindle Speeds - 12 speeds 20 - 1,550 RPM (high to low)		-	490	45	210	20	350	30
Spindle Bore	3-1/8"	(80 mm)						
Spindle Nose	D1 - 8 Cam lock							
Spindle taper in Spindle Nose	MT - 7	Morse Taper #7						
Spindle taper reduction sleeve provided	MT - 7 to MT - 5							

Carriage

Cross Slide Travel	12-1/2"	(320 mm)
Cross Slide Width	7-3/32"	(180 mm)
Cross Slide Lead Screw Pitch	.200" / rev	
Cross Slide Resolution per division	0.001"	(on diameters)
Carriage Lead Screw Diameter	1 1/2"	(38 mm)
Carriage Lead Screw Pitch	4 TPI	(6 mm pitch)
Feed Rod Dimensions	7/8" hexagon	23 mm hexagon

Compound

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

Tailstock (2 speed quill advance)

Quill Diameter	2-15/16"	(255 mm)
Quill Stroke	6-5/16"	(160 mm)
Quill Taper	MT - 5	Morse Taper #5
Quill Tang Drive and Drift-Slot for Tailstock	included	
Tailstock Body set-over adjustment	±0.04"	±1 mm

Thread Cutting

Leadscrew Diameter / Pitch	1-1/2" / 4 TPI	38 mm / 6 mm pitch
Thread Cutting Range - 60" pitches	2 - 112 TPI	
Thread Cutting Range - 60 metric pitches	0.2 - 14 mm	
Thread Cutting Range - 50 diametral pitches	4 - 112 M.P.	
Thread Cutting Range - 50 module pitches	0.2 - 7 M.P.	

Feeds

Feeds - Longitudinal - 50 Feeds	0.0014" - 0.0387" / rev	(0.037 - 1.04 mm / rev)
Feeds - Cross - 50 Feeds	0.0007" - 0.01935" / rev	(0.0185 - 0.52 mm / rev)
Feed stop shaft	4 adjustable automatic feed stops to disengage the longitudinal feed	
Coolant Pump	1/8 HP	
Machine Power Requirements (440vac optional)	220 vac / 3 Phase / 30 amps	