



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

Spindle

Spindle Motor Horsepower	10 HP 3 Phase	+	1550	150	680	60	1100	100
Spindle Speeds - 12 speeds 20 - 1550rpm (high to low)		-	490	45	210	20	350	30
Spindle Bore	3 1/8"	(80mm)						
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"	(320mm)
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)
Feed Rod Dimensions	7/8" hexagon	23mm hexagon

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

Thread Cutting

Leadscrew Diameter / Pitch	1 1/2" / 4 TPI	38mm / 6mm pitch
Thread Cutting Range - 60" pitches	2 - 112 TPI	
Thread Cutting Range - 60 metric pitches	0.2 - 14mm	
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 - 1.04mm / rev)
Feeds - Cross - 50 Feeds	0.0007" - 0.01935"/rev. (0.0185 - 0.52mm/ 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