



# GTW-20

## 20" Heavy Duty Engine Lathe

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- + 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

<b>Capacity &amp; Dimensions</b>	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	15.75" / 12-7/32"	400 mm / 310 mm														
<b>Spindle</b>	Spindle Motor Horsepower	10-HP 3-Phase															
	Spindle speeds – 12-speeds, 20 – 1,550 rpm (High & Low speed range)	<table border="1"> <tbody> <tr> <td>+</td> <td>1550</td> <td>150</td> <td>680</td> <td>60</td> <td>1100</td> <td>100</td> </tr> <tr> <td>-</td> <td>490</td> <td>45</td> <td>210</td> <td>20</td> <td>350</td> <td>30</td> </tr> </tbody> </table>		+	1550	150	680	60	1100	100	-	490	45	210	20	350	30
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	-	490	45	210	20	350	30										
	Spindle Bore	3-1/8"	80 mm														
	Spindle Nose	D1-8 Camlock															
	Spindle taper in spindle nose	MT-7	Morse Taper # 7														
Spindle taper reduction sleeve provided	MT-7 to MT-5																
<b>Carriage</b>	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														
<b>Compound</b>	Four T-nut lock-down bolts on compound cross-slide base																
	Compound top slide 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														
<b>Tailstock</b> (2-speed quill advance)	<b>Engraved with inch / metric quill graduations</b>																
	Quill diameter	2-15/16"	75 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														
<b>Thread Cutting</b>	Leadscrew diameter / pitch	1-1/2" / 4 TPI	38 mm / 6 mm pitch														
	Thread cutting range – 60 inch pitches	2 – 112 TPI															
	Thread cutting range – 60 metric pitches	0.2 – 14 mm															
	Thread cutting range – 50 diametral pitches	4 – 112 D.P.															
	Thread cutting range – 50 module pitches	0.2 – 7 M.P.															
<b>Feeds</b> (with clutched feed shaft for safety)	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															
<b>Power</b>	Power Requirements	220 vac, 3-Phase, 30 amps															
	Coolant System	1/8-HP Pump Motor, 5-gallon (20L) tank capacity															