



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





Swing over Bed 22" Skidn mm 11" 280 mm	Capacity & Dime	ensions		_
Center Height Swing ver Cross Side 14-1/8" 1360 mm 14-1/		Swing over Bed	22"	(560 mm)
Swing thru Gap 1745 mm 1646 mm 1647 m			11"	(280 mm)
Length of Bap in front of D1-11 face plate 6-1/2" 16-5 mm 16-1/8" 16-5 mm 16-1/8"		Swing over Cross Slide	14-1/8"	(360 mm)
Spindle Spindle Motor Horsepower Spindle Motor Horsepower Spindle Brace Spindle Brace Spindle Brace Spindle Brace Spindle Brace Spindle Brace Spindle Speeds 12 speeds 15 - 1,200 RPM (high to low) Spindle Brace Spindle Brace Spindle Speeds Spindle Speeds Spindle Speeds Spindle Nose Spindle Speeds Spindle Max Weight Capacity (Chuck Only) Spindle Max Weight Capacity (Chuck And Tailstock) Spindl		Swing thru Gap	29-3/8"	(745 mm)
Spindle Motor Horsepower Spindle Motor Horsepower Spindle Speeds - 12 speeds 15 - 1,200 RPM (high to low) Spindle Speeds - 12 speeds 15 - 1,200 RPM (high to low) Spindle Mose Spindle Nose Spindle Nose Spindle Nose Spindle Nose Spindle Nose Spindle Nose Spindle Mose Spindle Mose Spindle Maper in Spindle Nose MT - 8 MT - 8 to MT - 5 Spindle Nose Spindle May Weight Capacity (Chuck Only) Spindle Max Weight Capacity (Chuck Only) Spindle Max Weight Capacity (Chuck And Tallstock) Spindle Max Weight Capacity (Chuck And Tallstock) Spindle Max Weight Capacity (Chuck, Steady Rest & Tallstock) Spindle Max Weight Capac		Length of Gap in front of D1-11 face plate	6-1/2"	(165 mm)
Spindle Motor Horsepower 15 HP 12 kw 120 120 120 130		Bed Width	16-1/8"	(400 mm)
Spindle Dece 12 peeds 15 - 1,200 RPM high to low Spindle Dece 12 peeds 15 - 1,200 RPM high to low Spindle Dece	Spindle			
Spindle Speeds - 12 speeds 15 - 1,200 RPM (high to low) Spindle Bore Spindle Bore Spindle Nose D1 - 11 Carnlock (A1 - 11 optional) MT - 8 Morse Taper #8 Spindle taper in Spindle Nose MT - 8 MT - 8 MOrse Taper #8 Spindle taper reduction sleeve provided MT - 5 MT - 8 to MT - 5 MT - 8		Spindle Motor Horsepower	15 HP	IZ KW
Spindle Nose		Spindle Speeds - 12 speeds 15 - 1,200 RPM (high to low)		LOW 375 35 160 15 265
Spindle taper in Spindle Nose		Spindle Bore	4-1/8"	(105 mm)
Spindle taper reduction sleeve provided MT - 5 (300 kg)		Spindle Nose	D1 - 11 Camloci	(A1 - 11 optional)
Spindle Max Weight Capacity (Chuck Only) 660 lbs (300 kg)		Spindle taper in Spindle Nose	MT - 8	Morse Taper #8
Spindle Max Weight Capacity (Chuck, Steady Rest & Tailstock) 1,650 lbs 1,500 kg		Spindle taper reduction sleeve provided	MT - 5	MT - 8 to MT - 5
Corriage Cross Slide Travel 14.96* 380 mm Cross Slide Travel 14.96* 380 mm Cross Slide Width 73.32* (180 mm) Cross Slide resolution per division 200" rev Carriage Lead Screw Diameter 11/2* 38 mm Carriage Lead Screw Diameter 11/2* 38 mm Carriage Lead Screw Diameter 11/2* (6 mm pitch) Compound 50 mg (255 mm) 6 mg (255 mm) Compound Top Slide Travel 10** (255 mm) Compound Top Slide Width 4 11/32* 110 mm Compound Top Slide Width 4 11/32* 110 mm Cutting Tool Height Maximum 2 -15/16* 75 mm Quilt Stroke 6 -5/16* 160 mm) Quilt Ladvance Duilt Stroke 6 -5/16* 160 mm) Quilt Japer 50 mg -5 50 mg -5 Quilt Jadvance - 2 gear selected advance speeds 11 2:1 11 2:1 Timead Cutting Range - 60 inch pitches 2 - 112 TP 2 - 112 TP Thread Cutting Range - 60 metric pitches 0.2 - 14 mm 0.2 - 14 mm <th></th> <th>Spindle Max Weight Capacity (Chuck Only)</th> <th>660 lbs</th> <th>(300 kg)</th>		Spindle Max Weight Capacity (Chuck Only)	660 lbs	(300 kg)
Corriage 14.96° (380 mm) Cross Slide Travel 14.96° (380 mm) Cross Slide Width 7.3/32" (180 mm) Cross Slide lead screw pitch 2.000" rev Cross Slide lead screw Diameter 0.001" (on diameters) Carriage Lead Screw Diameter 11/2" (38 mm) Carriage Lead Screw Pitch 4 TPI (6 mm pitch) Compound Top Side Travel Compound Top Side 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) Quilt Diameter 2-15/16" (75 mm) Quilt Stroke 6-5/16" (160 mm) Quilt Taper MT - 5 Morse Taper #5 Quilt Javance - 2 gear selected advance speeds 1.1 2:1 Tiread Cutting 2 - 112 TPI ± 1 mm Thread Cutting Range - 60 inch pitches 2 - 112 TPI 2 - 112 TPI Thread Cutting Range - 50 inch pitches 0.2 - 14 mm 0.2 - 14 mm Thread Cutting Range - 50 inch pitches 0.2 - 14 mm 0.2 - 14 mm Thread Cutting Range - 50 module pitches 0.2 - 7 M.P. 0.2 - 7 M.P. <td< th=""><th></th><th>Spindle Max Weight Capacity (Chuck and Tailstock)</th><th>1,650 lbs</th><th>(750 kg)</th></td<>		Spindle Max Weight Capacity (Chuck and Tailstock)	1,650 lbs	(750 kg)
Cross Slide Travel		Spindle Max Weight Capacity (Chuck, Steady Rest & Tailstock)	3,300 lbs	(1,500 kg)
Cross Slide Width	Carriage			
Cross Stide lead screw pitch 200" / rev Cross Stide resolution per division 0.001" (on diameters)		Cross Slide Travel	14.96"	(380 mm)
Cross Slide resolution per division 0.001" (on diameters)		Cross Slide Width	7 3/32"	(180 mm)
Carriage Lead Screw Diameter 11/2" (38 mm)		Cross Slide lead screw pitch	.200" / rev	
Compound 4 TPI (6 mm pitch) 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) Tailstack (2 speed quill advance) Quill Diameter 2-15/16" (75 mm) Quill Stroke 6-5/16" (160 mm) Quill advance - 2 gear selected advance speeds 1:1 2:1 Thread Cutting Range + 50 Thread Cutting Range - 60 inch pitches ±0.04" ±1 mm Thread Cutting Range - 60 metric pitches 0.2 - 14 mm 0.2 - 14 mm Thread Cutting Range - 50 diametral pitches 0.2 - 14 mm 0.2 - 14 mm Thread Cutting Range - 50 module 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 0.0014" - 0.0387" / rev (0.037 - 1.04 mm / rev) 0.0007" - 0.01935" / rev (0.0185 - 0.52 mm / rev) Colant System 1/8 HP Pump Motor / 5 Gallon (20 L) Tank Capacity		Cross Slide resolution per division	0.001"	(on diameters)
Compound Top Side Travel 10" (255 mm)		Carriage Lead Screw Diameter	1 1/2"	(38 mm)
Compound Top Side Travel Compound Top Slide Width Cutting Tool Height Maximum Tailstack (2 speed quill advance) Quill Diameter Quill Stroke Quill Taper Quill Taper Quill advance - 2 gear selected advance speeds Tailstock body set-over adjustment Thread Cutting Thread Cutting Range - 60 inch pitches Thread Cutting Range - 60 metric pitches Thread Cutting Range - 50 diametral pitches Thread Cutting Range - 50 module pitches Peeds Feeds - Longitudinal - 50 Feeds Coolant System 100" 100" 110 mm) (25 mm x 25 mm) (160		Carriage Lead Screw Pitch	4 TPI	(6 mm pitch)
Compound Top Slide Width	Compound			
Cutting Tool Height Maximum 1.0" x 1.0" (25 mm x 25 mm) Tailstock (2 speed quill advance) Quill Diameter 2-15/16" (75 mm) Quill Stroke 6-5/16" (160 mm) 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" ±1 mm Thread Cutting Range - 60 inch pitches 2 - 112 TPl 2 - 112 TPl Thread Cutting Range - 60 metric pitches 0.2 - 14 mm 0.2 - 14 mm 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 - 1.04 mm / rev) Feeds - Cross - 50 Feeds 0.0007" - 0.01935" / rev (0.0185 - 0.52 mm / rev) Coolant System 1/8 HP Pump Motor / 5 Gallon (20 L) Tank Capacity		Compound Top Side Travel	10"	(255 mm)
Tailstack (2 speed quill advance) Quilt Diameter		Compound Top Slide Width	4-11/32"	(110 mm)
Quill Diameter 2-15/16" (75 mm) Quill Stroke 6-5/16" (160 mm) 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" ±1 mm Thread Cutting Range - 60 inch pitches Thread Cutting Range - 60 metric pitches 0.2 - 14 mm 0.2 - 14 mm Thread Cutting Range - 50 diametral pitches 4 - 112 D.P. 4 - 112 D.P. 4 - 112 D.P. Thread Cutting Range - 50 module pitches 0.2 - 7 M.P. 0.2 - 7 M.P. 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) Coolant System 1/8 HP Pump Motor / 5 Gallon (20 L) Tank Capacity		Cutting Tool Height Maximum	1.0" x 1.0"	(25 mm x 25 mm)
Quill Stroke 6-5/16" (160 mm) 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" ±1 mm Thread Cutting Range - 60 inch pitches Thread Cutting Range - 60 metric pitches 0.2 - 14 mm 0.2 - 14 mm 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 - 1.04 mm / rev) Feeds - Cross - 50 Feeds 0.0007" - 0.01935" / rev (0.0185 - 0.52 mm / rev) Coolant System 1/8 HP Pump Motor / 5 Gallon (20 L) Tank Capacity	Tailstock (2 spe	ed quill advance)		
Quill Taper Quill advance – 2 gear selected advance speeds Tailstock body set-over adjustment Thread Cutting Thread Cutting Range – 60 inch pitches Thread Cutting Range – 60 metric pitches O.2 – 14 mm O.2 – 14 mm Thread Cutting Range – 50 diametral pitches Thread Cutting Range – 50 module pitches O.2 – 7 M.P. O.2 – 7 M.P. Feeds Feeds – Longitudinal – 50 Feeds Feeds – Cross – 50 Feeds Coolant System MT – 5 Morse Taper #5 Morse Taper #5 Morse Taper #5 Morse Taper #5 Morse Taper #5 Morse Taper #5 1:1 2:1 2 – 112 TPI 2 – 112 TPI 2 – 112 TPI 2 – 112 D.P. 4 – 112 D.P. 4 – 112 D.P. 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) Coolant System		Quill Diameter	2-15/16"	(75 mm)
Quill advance – 2 gear selected advance speeds Tailstock body set-over adjustment ### 1 mm Thread Cutting Thread Cutting Range – 60 inch pitches Thread Cutting Range – 60 metric pitches Thread Cutting Range – 50 diametral pitches Thread Cutting Range – 50 diametral pitches Thread Cutting Range – 50 module pitches Thread Cutting Range – 50 module pitches #### 2 - 112 TPI ###################################		Quill Stroke	6-5/16"	(160 mm)
Thread Cutting Thread Cutting Range - 60 inch pitches Thread Cutting Range - 60 metric pitches Thread Cutting Range - 60 metric pitches Thread Cutting Range - 50 diametral pitches Thread Cutting Range - 50 diametral pitches Thread Cutting Range - 50 module pitches Thread Cutting Ra		Quill Taper	MT - 5	Morse Taper #5
Thread Cutting Range - 60 inch pitches 2 - 112 TPI 2 - 112 TPI Thread Cutting Range - 60 metric pitches 0.2 - 14 mm 0.2 - 14 mm 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 - 1.04 mm / rev) Feeds - Cross - 50 Feeds 0.0007" - 0.01935" / rev (0.0185 - 0.52 mm / rev) Coolant System 1/8 HP Pump Motor / 5 Gallon (20 L) Tank Capacity		Quill advance – 2 gear selected advance speeds	1:1 2:1	
Thread Cutting Range - 60 inch pitches 2 - 112 TPI 4 - 112 D.P. 4 - 112 D.P. 5 - 0.2 - 7 M.P. 5 - 0.2 - 7 M.P. 5 - 0.2 - 7 M.P. 5 - 0.0014" - 0.0387" / rev (0.037 - 1.04 mm / rev) 5 - 0.0014" - 0.01935" / rev (0.0185 - 0.52 mm / rev) Coolant System 1 / 8 HP Pump Motor / 5 Gallon (20 L) Tank Capacity		Tailstock body set-over adjustment	±0.04"	±1 mm
Thread Cutting Range - 60 metric pitches Thread Cutting Range - 50 diametral pitches Thread Cutting Range - 50 module pitches 4 - 112 D.P. 4 - 112 D.P. 10.2 - 7 M.P. Feeds Feeds - Longitudinal - 50 Feeds Feeds - Cross - 50 Feeds Coolant System 0.2 - 14 mm 10.2 - 14 mm 1	Thread Cutting			
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 - 1.04 mm / rev) Feeds - Cross - 50 Feeds 0.0007" - 0.01935" / rev (0.0185 - 0.52 mm / rev) Coolant System 1/8 HP Pump Motor / 5 Gallon (20 L) Tank Capacity		Thread Cutting Range - 60 inch pitches	2 – 112 TPI	2 – 112 TPI
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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) Coolant System 1/8 HP Pump Motor / 5 Gallon (20 L) Tank Capacity		Thread Cutting Range - 50 diametral pitches	4 – 112 D.P.	4 – 112 D.P.
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) Coolant System 1/8 HP Pump Motor / 5 Gallon (20 L) Tank Capacity		Thread Cutting Range - 50 module pitches	0.2 – 7 M.P.	0.2 – 7 M.P.
Feeds - Cross - 50 Feeds 0.0007" - 0.01935" / rev (0.0185 - 0.52 mm / rev) Coolant System 1/8 HP Pump Motor / 5 Gallon (20 L) Tank Capacity	Feeds			
Coolant System 1/8 HP Pump Motor / 5 Gallon (20 L) Tank Capacity		Feeds - Longitudinal - 50 Feeds	0.0014" - 0.038	7" / rev (0.037 – 1.04 mm / rev)
		Feeds - Cross - 50 Feeds	0.0007" - 0.019	35" / rev (0.0185 – 0.52 mm / rev)
Power Requirements 220 vac / 3 Phase / 40 Amps (440 vac optional)		Coolant System	1/8 HP Pump M	otor / 5 Gallon (20 L) Tank Capacity
		Power Requirements	220 vac / 3 Phas	se / 40 Amps (440 vac optional)