

520
MACHINERY SALES



GTW-20
MACHINE QUOTATION

Precision GTW-20 Series Geared-Head Engine Lathes

20" Swing over Bedways, 40" - 80" Center Distances

GEARED HEAD ENGINE LATHE FEATURES:

CONSTRUCTION:

- Meehanite Castings, fine grain and high-density cast iron using the superior Meehanite process yields superior vibration dampening and improved surface finish and tool life.
- Hardened & Precision Ground Bed Ways with Turcite-B anti-friction coating
- Gap-Bed with added swing clearance

HEADSTOCK:

- 10-HP heavy-duty spindle motor for efficient metal removal capability
- Hardened & ground D1-8 Camlock 3-bearing spindle with 3-1/8" spindle bore
- Two tapered SKF-Germany roller bearings & a rear deep-groove ball bearing
- 12-speed geared-head with 20 – 1550 rpm spindle speeds
- Alloy Steel Hardened & Ground Headstock Gears
- Safety gated spindle control lever to protect from accidental engagement
- Chuck guard w/ Micro-switch to control spindle for added operator safety
- Footbrake provided for added safety and operational convenience

AXIS FEED DRIVE:

- Inch / metric, diametral & modular threading capability without the use of change gears
- A thread dial indicator is included with the machine for inch & metric thread cutting
- Dual Inch/Metric cross feed, compound, and longitudinal dials
- Safety overload clutch for feed shaft to protect gearing from overloads
- Lead screw Safety Torque Limiting device as well as a shear pin for lead screw
- The automatic feed mechanism is mechanically interlocked with the thread cutting engagement lever to prevent damage through simultaneous engagement.
- The fourth rod controls a 4-position automatic feed stop which disengages the longitudinal feed motion at 4-distinct adjustable feed stop positions.

MACHINE FEATURES:

- Automatic way lubrication with filtered pressure lubrication system.
- The electrical control box and coolant system are equipped with electro-magnetic contactors and overload relay protection devices to prevent motors from burning out and to ensure safe operation.
- The 2-speed advance tailstock quill is oversized and equipped with a tang-drive and a drift-slot to make removing the centers and taper shank drills very easy.
- Flood coolant system is included
- Large compliment of parts and accessories in stock to ensure continued operation

GTW-20 SERIES MACHINE SPECIFICATIONS

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
Spindle speeds – 12-speeds, 20 – 1550 rpm (High & Low)	

+	1550	150	680	60	1100	100
-	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-

	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

Tailstock- (2-speed quill advance)

	Engraved with inch / metric quill graduations
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

Thread Cutting-

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.	

Feeds-

Feeds – longitudinal - 50 feeds	(with clutched feed shaft for safety)
Feeds – cross - 50 feeds	0.0014" – 0.0387"/rev. 0.037 – 1.04 mm/rev.
Feed stop shaft	0.0007" – 0.01935"/rev. 0.0185 – 0.52 mm/rev.
	4-adjustable automatic feed stops to disengage the longitudinal feed

Power-

Coolant Pump	220 vac, 1/8-HP, 3-Phase
Machine Power Requirements (440vac optional)	220 vac, 3-Phase @ 30 amps

GTW-20 SERIES MACHINE PRICING

GTW-2040 Heavy Duty 20" X 40" Engine Lathe

\$26,990.00

40" Center Distance, LxWxH = 100" x 51" x 50", G.W. 4,872 pounds

INCLUDED WITH EACH MACHINE - A \$3,000 VALUE

10" 3-jaw scroll chuck
16" 4-jaw independent chuck
Steady Rest Capacity: 3"- 8" (Roller Bearings are Optional)
Follower Rest
Full-Length Back Splash Guard
Chuck Guard w/ Safety Interlock
Foot brake
4-Way Tool Post w/wrench
Machine Leveling Pads
Halogen Work Light (55 Watts)

GTW-2060 Heavy Duty 20" X 60" Engine Lathe

\$28,490.00

60-1/4" Center Distance, LxWxH = 120" x 51" x 50", G.W. 5,468 pounds

GTW-2080 Heavy Duty 20" X 80" Engine Lathe

\$30,990.00

80-5/16" Center Distance, LxWxH = 140" x 51" x 50", G.W. 6063 pounds

GTW-2040 20" X 40" Engine Lathe With Value Package

\$30,490.00

GTW-2060 20" X 60" Engine Lathe With Value Package

\$32,490.00

GTW-2080 20" X 80" Engine Lathe With Value Package

\$34,490.00

Included in Value Package:

Newall *DP 700* or Fagor 2-axis DRO - installed

Quick-Change Wedge-Type CA size 4" wide tool post & 5-toolholders

Machine Options

Factory machine installation: "Peace-of-Mind Factory Installation" – includes expenses	\$2,995.00
Wiring to 440 volts. (Net Price)	\$495.00
Upgrade to Steady Rest with Roller Bearings	\$595.00
Live Center MT-5	\$1,185.00
Micrometer Carriage Stop	\$295.00
Taper Attachment Factory Installed	\$2,995.00
5C Collet Closer (JFK) quick-action lever-type installed	\$2,195.00

Toolholding Options

Drill Chuck and MT-5 Arbor, 3/4" capacity	\$395.00
Dorian Quick-Change Wedge-Type CA size 4" wide toolpost & 4-toolholders Installed	\$1,995.00
2 ea Turning/Facing toolholder, 2 ea. Boring/Turning/Facing toolholder	
Quick-Change Wedge-Type CA size 4" wide imported toolpost & 5-toolholders Installed	\$995.00
1-1" Turning/Facing, Boring/Turning/Facing, H-D Boring, Cutoff/Grooving, Knurling/Facing/Turning	

Digital Readout Options

2-Axis 60" Newall Premium DRO's – installed	\$4,195.00
2-Axis 80" Newall Premium DRO's – installed	\$4,895.00

3-Axis readouts and additional FAGOR models are available by request.

Terms of Sale

Warranty – 1 full year Ganesh parts and labor warranty on the machine.

Parts – Spare parts are available at our facility in Chatsworth to support your continued machine operation.

F.O.B. Point – Machines ship F.O.B. from Chatsworth, CA 91311.

Payment Terms – 30% down payment with your Purchase Order secures the machine. 60% is due prior to machine shipment, and the 10% balance is due after installation or the machine can be financed with our approved lender. Leases with \$1.00 buyout are available upon approved credit.

Purchase is governed by the Expand Machinery terms and conditions of sale.

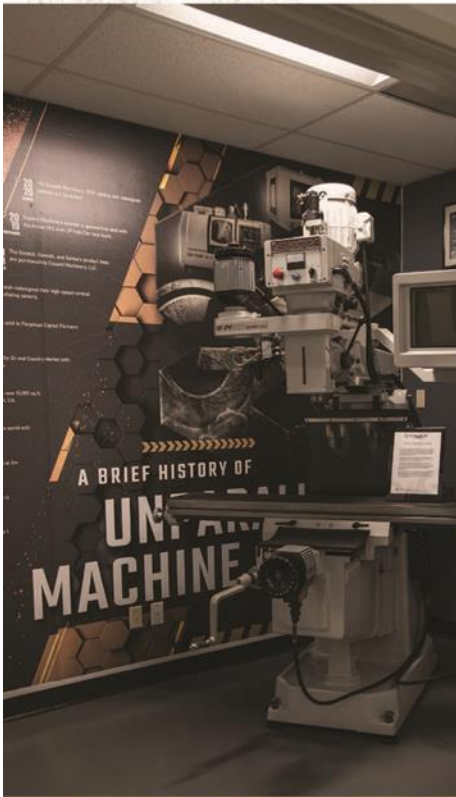
UL & TÜV ELECTRICAL APPROVAL IS AN AVAILABLE OPTION

Prices and specifications subject to change without prior notice.



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