



# GTW-16 MACHINE QUOTATION

# Precision GTW-16 Series Geared-Head Engine Lathes

16" Swing over Bedways, 40" & 60" Center Distances

# STANDARD 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.
- Induction Hardened & Precision Ground oversized Bed Ways
- Gap-Bed with added swing clearance

#### **HEADSTOCK:**

- 7-1/2 HP spindle motor for efficient metal removal capability
- Hardened and ground D1-6 Camlock spindle nose & 3-bearing spindle
- Two tapered SKF-Germany roller bearings & a rear deep-groove ball bearing
- 12-speed geared-head spindle
- 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

#### **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 position indicator 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 thought simultaneous engagement.
- The fourth rod controls a 4-position automatic feed stop which disengages the longitudinal feed motion at 4-distinct adjustable pre-determined 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 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
- A tool box and tool kit with grease gun and touch-up paint is included with the machine
- Inspection Report on accuracy to CNS 94 and B7001 standards included
- Instruction Manual, Tools and Tool Box with hand tools and lube gun included
- One-Year Limited Parts and Labor Warranty Included
- Large compliment of parts and accessories in stock to ensure continued operation

PRECISION BUILT IN TAIWAN AT OUR ISO-9000 APPROVED FACILITY

# GTW-16 GEARED HEAD ENGINE LATHE SERIES MACHINE SPECIFICATIONS

Capacity & Dimensions-

 Swing over Bed
 16"
 410 mm

 Center height
 8-1/16"
 205 mm

 Swing over Cross Slide
 9-7/16"
 240 mm

 Swing thru Gap
 23-7/16"
 595 mm

Length of Gap in front of face plate, D1-6 / A1-6 6-1/8" / 6-7/8" 155 mm / 175 mm (optional)

Bed casting width / bed casting height 11-13/16" / 12.20" 300 mm / 310 mm

Spindle-

Spindle Motor Horsepower 7.5 HP 7.5 HP

Spindle speeds – 12-speeds 30 – 2000 rpm) + 540 | 1600 | 325

(+ = High & - = Low)

Spindle Bore2-1/16"52 mmSpindle NoseD1-6A1-6 optional

Spindle taper in spindle nose MT-6 Morse Taper #6

Carriage -

Cross slide travel / Cross slide width 9" / 7-3/32" 230 mm / 180 mm

Cross slide lead screw pitch 4 TPI

Cross slide resolution per division 0.50" /rev. (On diameters)
Carriage lead screw diameter / pitch 1-1/4" / 4 TPI 32 mm / 6 mm pitch
Feed rod dimensions 7/8" hexagon 23 mm hexagon

Compound-

Compound top slide travel / Compound width 4-3/4" / 4-11/32" 120 mm / 110 mm Cutting tool height maximum 1.0" x 1.0" 25 mm x 25 mm

Tailstock- Engraved with inch / metric quill graduations

Quill diameter2-1/8"54 mmQuill stroke4-3/4"120 mm

Quill taper MT-4 Morse Taper #4

Quill tang drive and drift-slot for tailstock included

Tailstock body set-over adjustment ±0.04" ± 1 mm

Thread Cutting-

Thread cutting range -40 inch pitches 2-56 TPI Thread cutting range -53 metric pitches 0.4-14 mm

Thread cutting range -32 diametral pitches 4-32 D.P. Optional Thread cutting range -44 module pitches 0.4-7 M.P. Optional

Feeds- (with clutched feed shaft for safety)

Feeds – longitudinal - 40 feeds 0.0012" – 0.0252"/rev. 0.032 mm – 0.898 mm/rev. Feeds – cross - 40 feeds 0.0006" – 0.0126"/rev. 0.016 mm – 0.449 mm/rev.

Feed stop control shaft 4-adjustable automatic feed stops to disengage the longitudinal feed

Power-

Coolant pump motor 220 vac, 1/8-HP, 3-Phase

Power requirements 220 vac, 7.5-HP, 3-Phase @ 20 amps

1000

95

55

160

30

700

70

2000

200

# GTW-16 SERIES GEARED HEAD ENGINE LATHE PRICES

# GTW-1640 16" X 40" Engine Lathe

\$19,990.00

40" between centers, Bed Length 74.8", LxWxH - 88.3" x 39" x 48", G.W. 4,410 pounds

### **INCLUDED WITH EACH MACHINE - A \$2,500 VALUE**

8" 3-jaw scroll chuck				
10" 4-jaw independent chuck				
Steady Rest Capacity :1"- 6"				
(Bearing Shafts are Optional)				
Follower Rest				
Full Length Splash Guard				
Chuck Guard w/ interlock				
Foot brake				
4-Way Tool Post w/wrench				
Machine Leveling Pads				
Halogen Work Light (55 Watts)				

## GTW-1660 16" X 60" Engine Lathe

\$21,990.00

60" between centers, Bed Length 95.1", LxWxH – 108.5" x 39" x 48", G.W. 5,071 pounds

GTW-1640 16" X 40" Engine Lathe With Value Package

\$22,990.00

GTW-1660 16" X 60" Engine Lathe With Value Package

\$24,990.00

# Included in Value Package:

- Newall 2-axis DRO installed
- Wedge-Type Quick-Change tool post installed, size CXA with 3.5" square base & 5-toolholders installed

#### **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		
16-piece 5C Collet set	\$495.00		
Drill Chuck & Arbor – ¾" capacity	\$350.00		
Taper Attachment (Factory Installed)	\$2,995.00		
Micrometer Carriage Stop	\$295.00		
Live Center MT-4	\$860.00		
5C Collet Closer (JFK) quick-action lever-type installed			
Wedge-Type import Quick-Change tool post installed, size CXA with 3.5" square base &	\$795.00		
5-toolholders 1-ea.) 3/4" Turn/Face, 3/4" Bore/Turn/Face, H-D ¾" Bore, Part-Off,			
3/4" Knurl/Turn/Face			
Dorian Wedge-Type Quick-Change tool post installed, size CXA with 3.5" square base &	\$1,495.00		
4-toolholders 2-ea. Turn/Face toolholder, 2 ea. Bore/Turn/Face toolholder			

#### **Digital Readouts**

2-Axis 40"	Newall	Premium DRO's – installed	\$3,495.00
2-Axis 60"	Newall	Premium DRO's – installed	\$3,995.00

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

# **Terms of Sale**

**Warranty** – 1 full year parts warranty on the machine. Labor warranty will be provided by your local servicing distributor.

**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.















