



Steadyrest included. Splashguard included but not shown above. Tailstock positioning is via attachment to the power carriage.

GTD- 44HL

MACHINE QUOTATION

GTD- 44HL

Geared-Head Engine Lathe

44" - 55" Swing, Center Distances: 60" - 355"

STANDARD LATHE FEATURES:

CONSTRUCTION:

- Meehanite Castings, fine grain and high-density cast iron using the superior Meehanite process yields superior strength and vibration dampening for improved surface finish and better tool life.
- One-piece headstock base and bed casting with heavy reinforced inner structure
- Induction Hardened & Precision Ground oversized Bed Ways with Turcite - B anti-friction coating
- Removing the gap does not have any adverse effect on the rigidity of the machine structure
- Gap-Bed with added swing clearance for added workpiece capacity, without a riser

HEADSTOCK:

- 30-HP spindle motor for efficient metal removal capability
- A2-11 spindle w/ 3-bearing support (2x NSK 32040 tapered roller & rear NSK 6036 roller bearings)
- 6" spindle bore (9", 12" and 15" bores optional with A2-15 & A2-20 spindles respectively)
- 16-speed geared-headstock with turbine speed change system (12-speeds on larger bore sizes)
- Sealed oil bath lubrication with mechanical pump for positive on-demand lubrication
- Super Alloy Steel Hardened & Ground Headstock Gears
- Safety gated spindle control lever to protect from accidental engagement
- Chuck guard with safety interlock switch

AXIS FEED DRIVE:

- Rapid Traverse feed advance for longitudinal and cross axis for enhanced operational efficiency
- 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
- Automatic lubrication for longitudinal and cross axis ways
- 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 though simultaneous engagement.

MACHINE FEATURES:

- A 6" boring bar holder or additional toolpost can be added to the rear of the cross slide for more tooling. Mounted by either the dovetail on the outside of the cross-slide casting or by tapping the surface of the cross slide to mount the holder. This takes advantage of the extended 23.6" cross slide travel.
- 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 burn-out and to ensure safe operation.
- The tailstock features 2-speed quill advance
- MT-6 oversized quill is equipped with a tang-drive and a drift-slot to make removing the centers and taper shank drills very easy and without tooling damage.
- 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 in California to ensure continued operation

GTD-44HL LATHE SPECIFICATIONS

Capacity & Dimensions-

Swing over Bed	44"	(1,120 mm)
Swing over Cross Slide	31.89"	(810 mm)
Swing thru Gap	61"	(1,550 mm)
Width of Gap (nose to ways, limited by width of chuck)	22.05"	(560 mm)
Distance between Centers (dependent upon bed selected)	60"- 315"	(1,500 – 8,000 mm)
Bed width (a 32" wide bed GTD-44HK Heavy-Duty version is optional)	24"	(610 mm)

Standard

Spindle-

Spindle Bore (9", 12" & 15" spindle bores optional)	6"	(152 mm)
Spindle Nose	A2-11	A2-15 & A2-20 optional
Spindle taper in spindle nose	MT-7	MT-7
Spindle center height to base	49"	(1245 mm)
Spindle Motor Horsepower	30-HP	

Spindle speeds – 6" Bore = 16-speeds from 4 – 420 rpm
Larger Spindle Bores = 12-speeds (High / Low Speed Ranges)

High	165	225	420	35	19	14	26	310
Low	48	65	120	10	5.5	4	7	90

Spindle Weight Capacity-

Workpiece weight limit when held by chuck only	4,400 lbs.	(2,000 kgs)
Workpiece weight limit when held by chuck and tailstock	13,200 lbs.	(6,000 kgs)
Workpiece weight limit held by chuck, steadyrest & tailstock	17,600 lbs.	(8,000 kgs)

A2-15 version

Carriage –

Cross slide travel	20.87"	(530 mm)
Cross slide width	11.81"	(300 mm)
Width of Carriage	31.10"	(790 mm)
Compound Rest Travel	14.57"	(370 mm)
Cutting tool height maximum	1.26" x 1.26"	(32 X 32 mm)

Tailstock- (Efficient 2-speed quill advance)

Quill diameter (5.9" diameter optional)	4.92"	(125 mm)
Quill stroke	11.8"	(300 mm)
Quill advance – 2-Speed ratios	1:1 and 5:1	5X Thrust Force Multiplier
Quill taper	MT-6	MT-7 optional
Tailstock body set-over adjustment	± 0.4"	(± 10 mm)

Quill engraved with inch / metric graduations

Thread Cutting-

Lead Screw Diameter	2.36" X 2 T.P.I	(60 mm, 12 mm Pitch)
Thread cutting range – 70 inch pitches	0.25-30 TPI	
Thread cutting range – 62 metric pitches	1-120 mm	
Thread cutting range – 70 diametral pitches	1-120 D.P.	
Thread cutting range – 53 module pitches	0.25-30 M.P.	

Feeds-

Feed Shaft Diameter	1.26"	(32 mm)
Feeds – longitudinal	0.0028"-0.34"/rev.	0.072-8.68 mm/rev.
Feeds – cross	0.0014"-0.17"/rev.	0.036-4.34 mm/rev

Power-

Connected load - 86-Amps Full Load	Wired 440vac (220/440 vac motor)
Coolant motor (coolant capacity shown with pricing)	0.25-HP (0.2 kw)
Rapid traverse motor	1-HP (0.75 kw)

GTD- 44HL Geared-Head Engine Lathe Pricing

GTD-4460HL 44" X 60" 30-HP Engine Lathe \$109,990.00
 59" between centers, 134" bed length, LxWxH – 144" x 81" x 61", 18-gallons coolant, G.W. 19,000 pounds

INCLUDED WITH EACH MACHINE

30-Horsepower Spindle Motor / 6" bore Standard
Cross & Longitudinal Rapid Feed Motor
15.74" Steady Rest w/Roller Bearings (60-400mm range)
Quill Taper Reduction Sleeve & Dead Center
LED Work Light (55 Watts)
Full-length Back Splashguard
Safety Chuck Guard

GTD-4480HL 44" X 80" 30-HP Engine Lathe \$119,990.00
 80" between centers, 154" bed length, LxWxH – 161" x 81" x 61", 22-gallons coolant, G.W. 20,000 pounds

GTD-44120HL 44" X 120" 30-HP Engine Lathe \$129,990.00
 120" between centers, 212" bed length, LxWxH – 201" x 81" x 61", 28-gallons coolant, G.W. 22,500 pounds

GTD-44160HL 44" X 160" 30-HP Engine Lathe \$144,990.00
 160" between centers, 252" bed length, LxWxH – 240" x 81" x 61", 34-gallons coolant, G.W. 25,000 pounds

GTD-44200HL 44" X 200" 30-HP Engine Lathe \$159,990.00
 200" between centers, 291" bed length, LxWxH – 280" x 81" x 61", 40-gallons coolant, G.W. 27,300 pounds.

GTD-44240HL 44" X 240" 30-HP Engine Lathe \$179,990.00
 240" between centers, 331" bed length, LxWxH – 319" x 81" x 61", 46-gallons coolant, G.W. 29,800 pounds

GTD-44280HL 44" X 280" 30-HP Engine Lathe P.O.R.
 280" between centers, 370" bed length, LxWxH – 358" x 81" x 61", 52-gallons coolant, G.W. 32,200 pounds

GTD-44315HL 44" X 315" 30-HP Engine Lathe P.O.R.
 315" between centers, 410" bed length, LxWxH – 398" x 81" x 61", 60-gallons coolant, G.W. 34,600 pounds

GTD-44355HL 44" X 355" 30-HP Engine Lathe P.O.R.
 354" between centers, 440" bed length, LxWxH – 438" x 81" x 61", 60-gallons coolant, G.W. 37,000 pounds

**Ganesh machines are manufactured in our
 Certified ISO 9001 Production Facility in Taiwan.**

Machine Options

Factory machine installation: "Peace-of-Mind Factory Installation" – includes expenses	\$2,995.00
Taper Attachment Installed Factory Order	\$9,995.00
Upgrade from 30-HP to 40-HP spindle motor	\$9,995.00
Rear Chuck A2-11 Spindle Mount w/ 6" bore (Max. swing 32" - Factory Order)	\$7,995.00
Rear Chuck A2-15 Spindle Mount w/ 9" bore (Max. swing 32" - Factory Order)	\$8,995.00
Rear Chuck A2-20 Spindle Mount w/ 12" bore (Max. swing 32" - Factory Order)	\$9,995.00
Rear Chuck A2-20 Spindle Mount w/ 15" bore (Max. swing 32" - Factory Order)	P.O.R.

Big Bore Options (Factory order)

Upgrade to 9" Spindle Bore (A2-15 Spindle Nose, 2-NSK 32960 taper roller bearings)	\$24,990.00
Upgrade to 12" Spindle Bore (A2-20 Spindle Nose, 7-266 rpm speed range)	\$49,990.00
Upgrade to 15" Spindle Bore (A2-20 Spindle Nose, 7-266 rpm speed range)	P.O.R.

(Large bore options might be available. Please discuss with your dealer.)

Large Swing Options (Factory order)

3" Riser on Headstock, Carriage and Tailstock (Increases swing to 50") (Larger than 55" Swing will not reach centerline)	P.O.R.
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Tool Holder Options

Rear cross slide bore bar holder – 6" bore mounted on rear of cross slide	\$5,990.00
Bushing for rear cross slide bore bar holder, specify 3" or 4" diameter.	\$1,195.00 ea.
Dorian SDN60EA-TS Toolpost with 4-Toolholders – 1-1/2" tool height	P.O.R.



T-Slotted Cross-Slide Standard



Dorian SDN60EA-TS Quick-Change Toolpost and 4-toolholders for 1-1/2" tools

A large compliment of spare parts is in stock at our facility to ensure your continued operation.

Work Holding Options

15.74" Steady Rest with Roller Bearings (60 – 400 mm range) (1-included with machine)	\$6,995.00
23.6" Steady Rest with Roller Bearings (380 – 600 mm range)	\$7,995.00
32" Steady Rest with Roller Bearings (590 – 800 mm range)	\$11,995.00
Precision Live Center with MT-6 Arbor	\$1,795.00

Chuck Options Note that no workholding is included with the machine.

See the Ganesh Big-Bore Lathe Chuck Catalog to select the available 3 & 4-Jaw chucks desired.

Digital Readout Options Match DRO length to bed-length of machine being purchased.

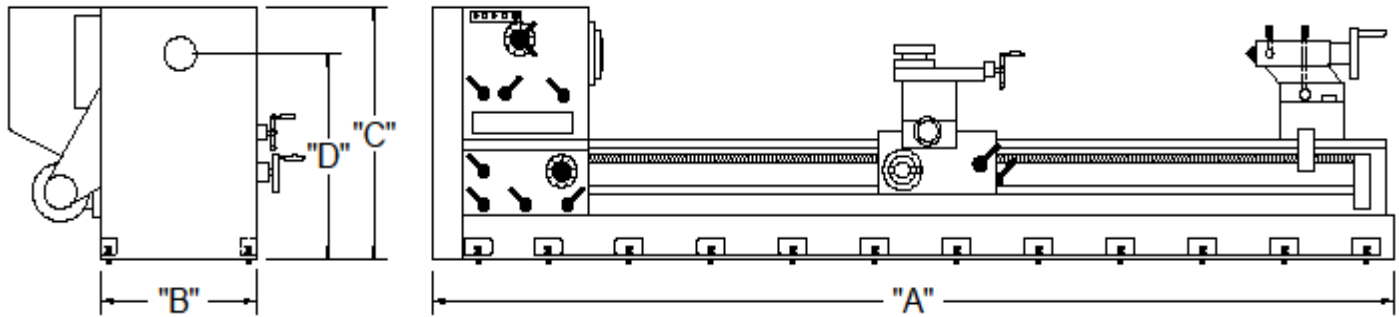
2-Axis 60" Newall Premium DRO's - installed	P.O.R.
2-Axis 80" Newall Premium DRO's - installed	P.O.R.
2-Axis 120" Newall Premium DRO's - installed	P.O.R.
2-Axis 160" Newall Premium DRO's - installed	P.O.R.
2-Axis 200" Newall Premium DRO's - installed	P.O.R.
2-Axis 240" Newall Premium DRO's - installed	P.O.R.
2-Axis 280" Newall Premium DRO's - installed	P.O.R.
2-Axis 315" Newall Premium DRO's - installed	P.O.R.

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

Floor Plan Layout

Power requirements

220 VAC, 3 Phase, 60 amps
(440 VAC, 3 Phase, 35 amps)



Model	GT-44160	GT-44200	GT-44240
A	241"	281"	321"
B	84"	84"	84"
C	60"	60"	60"
D	49"	49"	49"



DESCRIPTION					
GTD-44-55 HL Lathe					
DESIGN	DATE	CHECKED	DATE	APPROVED	DATE
DBS					
SCALE	SIZE	DRAWING			REV.
N/A					
LIMIT OF SCALE		SHT.	OF		

Terms of Sale

Warranty – 1 full year parts warranty on the machine. Labor 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 net-30 days 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.