

Chuck guard and full back Splashguard included but not shown.
Faceplate shown is optional.

GTD-44HK

MACHINE QUOTATION

GTD- 44HK

Super Heavy-Duty Geared-Head Engine Lathe

44" - 56" Swing, Center-Distances of 60" - 480"

STANDARD Features:

CONSTRUCTION:

- Meehanite Castings, fine grain and high-density FC-30 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 using a riser

HEADSTOCK:

- 40-HP spindle motor for efficient metal removal capability
- A2-11 spindle w/ 6-bearing support (4x NSK 32040 tapered roller & 2x rear NSK 6036 roller bearings)
- 6" spindle bore (9", 12" & 15" bores optional with A2-15 & A2-20 spindles respectively)
- 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 motor 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
- Turcite-B coated X & Z axes
- 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 large 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 30" 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.
- 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-44HK Super Heavy-Duty Series Specifications

Capacity & Dimensions-

Swing over Bed	44"	(1,120 mm)
Swing over Cross Slide	27.95"	(710 mm)
Swing thru Gap	55.11"	(1,400 mm)
Width of Gap (nose to ways, limited by chuck width)	21.26"	(540 mm)
Distance between Centers (dependent upon bed selected)	60" - 315"	(1,500 – 8,000 mm)
Bed width	32"	(810 mm)

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	
Spindle center height to base	49"	(1245 mm)
Spindle Motor Horsepower	40-HP	
Spindle speeds	16-gears	from 4 – 420 RPM

Spindle Weight Capacity-

	A2-15 Version	
Workpiece weight limit when held in chuck only	4,400 lbs.	2,000 Kg
Workpiece weight limit when held in chuck & tailstock	15,400 lbs.	7,000 Kg
Workpiece weight limit - held in chuck, steady rest & tailstock	19,800 lbs.	9,000 Kg

Carriage -

Cross slide travel	23.62"	(600 mm)
Cross slide width	13.75"	(350 mm)
Width of Carriage	34.65"	(880 mm)
Compound Slide Travel	15.75"	(400 mm)
Compound Slide Width	10"	(250 mm)
Cutting tool height maximum	1.5" x 1.5"	(40 X 40 mm)

Tailstock-

	(Electric motor driven body & quill)	
Quill diameter	7.87"	(200 mm)
Quill stroke	11.87"	(300 mm)
Quill taper	MT-6	MT-7 optional
Tailstock body set-over adjustment	± 0.4"	(± 10 mm)
Tailstock body movement	Push-Button ½-HP electric motor driven	
Quill Drive	Push-Button ¼-HP electric motor driven	

Thread Cutting-

Lead Screw Diameter (60 mm, 12 mm Pitch metric order)	2.36" X 2 T.P.I
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.

Inch/Metric Gear Box

Feeds-

Feed Rod 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 - 120-Amps Full-Load	Wired 440 vac, (220/440 vac motors)	
Rapid traverse motor for cross & longitudinal motion	1-HP	(0.75 kw)
Coolant motor / Coolant tank capacity	0.25-HP (0.2 kw / capacity shown on price sheet)	

GTD-44HK Super Heavy-Duty Series Pricing

GTD-4460HK	44" X 60" 40-HP Engine Lathe	\$139,990.00	59" between centers, 156" bed length, LxWxH – 164" x 85" x 63", 20-gallons coolant, G.W. 19,500 pounds								
INCLUDED WITH EACH MACHINE											
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="text-align: center;">40-Horsepower Spindle Motor / 6" bore Standard</td></tr> <tr><td style="text-align: center;">Cross & Longitudinal Rapid Feed Motor</td></tr> <tr><td style="text-align: center;">15.74" Steady Rest w/ Roller Bearings (60-400mm range)</td></tr> <tr><td style="text-align: center;">Quill Taper Reduction Sleeve & Dead Center</td></tr> <tr><td style="text-align: center;">LED Work Light (55 Watts)</td></tr> <tr><td style="text-align: center;">Full-length Back Splashguard</td></tr> <tr><td style="text-align: center;">Safety Chuck Guard with Interlock</td></tr> <tr><td style="text-align: center;">4-way tool post 40x40mm & wrench</td></tr> </table>				40-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 with Interlock	4-way tool post 40x40mm & wrench
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4-way tool post 40x40mm & wrench											
GTD-4480HK	44" X 80" 40-HP Engine Lathe	\$144,990.00	80" between centers, 176" bed length, LxWxH – 183" x 85" x 63", 22-gallons coolant, G.W. 20,000 pounds								
GTD-44120HK	44" X 120" 40-HP Engine Lathe	\$159,990.00	120" between centers, 215" bed length, LxWxH – 223" x 85" x 63", 28-gallons coolant, G.W. 22,500 pounds								
GTD-44160HK	44" X 160" 40-HP Engine Lathe	\$179,990.00	160" between centers, 255" bed length, LxWxH – 262" x 85" x 63", 34-gallons coolant, G.W. 25,000 pounds								
GTD-44200HK	44" X 200" 40-HP Engine Lathe	\$199,990.00	200" between centers, 294" bed length, LxWxH – 301" x 85" x 63", 40-gallons coolant, G.W. 27,300 pounds								
GTD-44240HK	44" X 240" 40-HP Engine Lathe	\$224,990.00	240" between centers, 333" bed length, LxWxH – 341" x 85" x 63", 46-gallons coolant, G.W. 29,800 pounds								
GTD-44280HK	44" X 280" 40-HP Engine Lathe	P.O.R.	280" between centers, 373" bed length, LxWxH – 380" x 85" x 63", 54-gallons coolant, G.W. 32,200 pounds								
GTD-44315HK	44" X 315" 40-HP Engine Lathe	P.O.R.	315" between centers, 431" bed length, LxWxH – 420" x 85" x 63", 60-gallons coolant, G.W. 34,600 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
Rear Chuck A2-11 Spindle Mount w/ <u>6" bore</u> (20" chuck - Factory Order)	\$7,995.00
Rear Chuck A2-15 Spindle Mount w/ <u>9" bore</u> (25" chuck - Factory Order)	\$8,995.00
Rear Chuck A2-20 Spindle Mount w/ <u>12" bore</u> (25" chuck - Factory Order)	\$9,995.00
Rear Chuck A2-20 Spindle Mount w/ <u>15" bore</u> (25" chuck - Factory Order)	P.O.R.

Machine Options:

Big Bore Options (Factory order)

Upgrade 6" bore to 9" Spindle Bore (A2-15 Spindle Nose, 8-291 rpm in 12-gears)	\$24,990.00
Upgrade 6" bore to 12" Spindle Bore (A2-20 Spindle Nose, 7-264 rpm in 12-gears)	\$49,990.00
Upgrade 6" bore to 15" Spindle Bore (A2-20 Spindle Nose, 7-264 rpm in 12-gears)	P.O.R.

Large Swing Options (Factory order)

3" Riser on Headstock, Carriage and Tailstock (Increases swing to 50")	P.O.R.
5.5" Riser on Headstock, Carriage and Tailstock (Increases swing to 55")	P.O.R.

70 inch and 80 inch swings available

Note: When exceeding 55" swing the standard tooling will not reach centerline!

Tool Holder Options (No Tool Holder is Included)

Rear cross slide bore bar holder – 6" bore w/T-slot plate mounted on rear of cross slide	\$5,990.00
Bushings for rear cross slide bore bar holder, specify 3", 4", or 5" diameter.	\$1,195.00 ea.
Dorian SDN60EA-TS Quick Change Tool holder with four holders 1-1/2" tool height	P.O.R.



T-Slotted Cross
Standard

Optional DORIAN SDN60EA-TS Quick-Change Toolpost Slide
includes 4-toolholders for tools up to 1-1/2"

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 – 400mm range) 1 included with machine	\$6,995.00
23.6" Steady Rest with Roller Bearings (380 – 600mm range)	\$7,995.00
32" Steady Rest with Roller Bearings (590 – 800mm 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 Big-Bore Lathe Chuck Catalog to select the available 3 & 4-Jaw chucks desired.

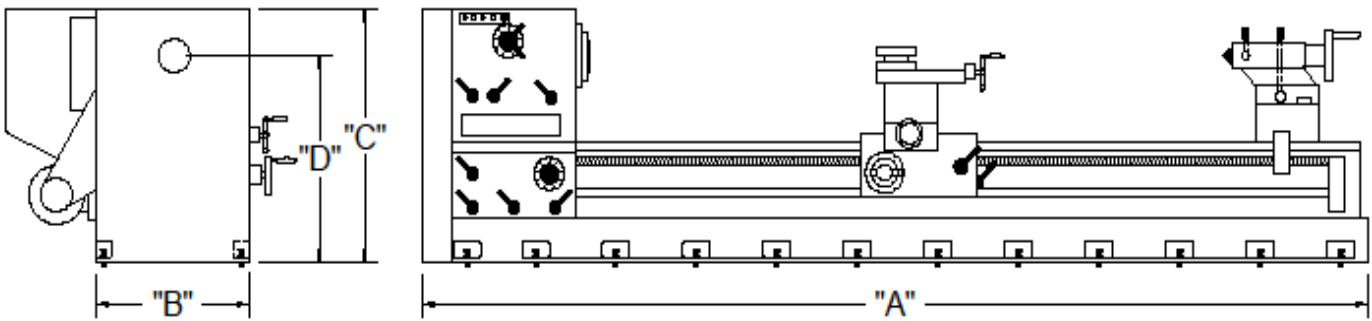
Digital Readout Options Match DRO length to bed-length of machine being purchased.

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"

 GANESH MACHINERY <i>The Edge in Cutting</i>	DESCRIPTION GTD-44-55 HK Lathe					
	DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
	DBS					
	SCALE	SIZE	DS/WH			REV.
N/A						
UNIT OF MEAS.		SHT.	OF			