



Ganesh

2023 CATALOG



Ganesh

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Expand Machinery produces incredible quality equipment with utmost capability, giving us the resource to compete and win at the highest level."

Nick Snyder
SPM Engineering Manager

PROUD PARTNER OF





GMV-1F

9" x 42" Precision Milling Machine

- + 3-Horsepower Variable Speed Head
- + Class-7 Super Precision Spindle Bearings
- + Hard-Chrome Plated and Mirror Ground Quill
- + Hard-Chrome Plated X & Y Axis Ways
- + 9" x 42" Table Dimensions
- + Coolant Proof Halogen Lamp Standard

Table	
Table Size (W x L)	9" x 42" (230 x 1,067 mm)
T-slot Width / Quantity	5/8" / 3 on 2.5" centers
Table Load Capacity	400 lbs (181 kg)
Table Load Capacity (Evenly Distributed)	850 lbs (385 kg)
Table Surface to Floor Dimension	32" – 48" (820 - 1,226 mm)
Machine Travels & Capacity	
Table Travel – Longitudinal – X Axis	30" (762 mm)
Table Travel with Power Feed	24.8" (630 mm)
Cross Travel – Y Axis	12" (305 mm)
Vertical Knee Travel – Z Axis	16" (406 mm)
Overarm (ram) Travel	12" (305 mm)
Overarm Swivel	360°
Spindle Nose-to-Table Surface	0" - 18.5" (0 - 469 mm)
Spindle Centerline to Column Face	6.75" - 18.75" (171 - 476 mm)
Leadscrews with ground pitch surface (X & Y)	0.200" per rev
Ways – X, Y & Z Axes – Hard Chrome Plated	Hardened & Ground Dovetail Ways
Spindle Head (Vari-Speed)	
Spindle Motor	3-HP / 3-Phase 220 volts (440 Optional)
Spindle Taper (hardened & ground)	R - 8
Spindle Runout	0.00008" maximum runout (0.002 mm)
Spindle Bearings ABEC - 7 matched set	Class-7 Bearings
Variable Speed Spindle	60 – 4,500 RPM
Head Tilt (Left-to-Right)	90° – 0 – 90°
Head Tilt (Front-to-Back / Up-Down)	+45° – 0 – -38°
Head Swivel on Turret	360°
Quill	
Quill Diameter	3-3/8" (85.725 mm)
Quill Travel – Manual & Power Feed	5" (127 mm)
Quill feeds – With Trip Release – Inch	0.0015" / 0.003" / 0.006"
Quill feeds – With Trip Release – Metric	0.04 mm / 0.08 mm / 0.16 mm
Dimensions & Weight	
Machine Weight	2,222 lbs (1,010 kg)
Electrical Requirements – 220 volts	3-Ph / 60 Hz / 9.5 amps

GANESH**GMV-2F**

9" x 50" Precision Milling Machine

- + 3-Horsepower Variable Speed Head
- + Class-7 Super Precision Spindle Bearings
- + Hard-Chrome Plated and Mirror Ground Quill
- + Hard-Chrome Plated X & Y Axis Ways
- + 9" x 50" Table Dimensions
- + Coolant Proof Halogen Lamp Standard
- + 4,000 RPM Digital Variable Speed Option Available

Table	
Table Size (W x L)	9" x 50" (230 x 1,270 mm)
T-slot Width / Quantity	5/8" / 3 on 2.5" centers
Table Load Capacity	440 lbs (200 kg)
Table Load Capacity (Evenly Distributed)	900 lbs (408 kg)
Table Surface to Floor Dimension	32" – 48" (820 - 1,226 mm)
Machine Travels & Capacity	
Table Travel – Longitudinal – X Axis	38" (966 mm)
Table Travel with Power Feed	33.07" (840 mm)
Cross Travel – Y Axis	12" (305 mm)
Vertical Knee Travel – Z Axis	16" (406 mm)
Overarm (ram) Travel	12" (305 mm)
Overarm Swivel	360°
Spindle Nose-to-Table Surface	0" - 18.5" (0 - 469 mm)
Spindle Centerline to Column Face	6.75" - 18.75" (171 - 476 mm)
Leadscrews with ground pitch surface (X & Y)	0.200" per rev (ballscrews optional)
Adjustable scale ring display resolution	0.001" (5 mm)
Ways – X, Y & Z Axes – Hard Chrome Plated	Hardened & Ground Dovetail Ways
Spindle Head (Vari-Speed)	
Spindle Motor	3-HP / 3-Phase 220 volts (440 Optional)
Spindle Taper (hardened & ground)	R - 8
Spindle Runout	0.00008" maximum runout (0.002 mm)
Spindle Bearings ABEC - 7 matched set	Class-7 Bearings
Variable Speed Spindle	60 – 4,500 RPM
Head Tilt (Left-to-Right)	90° – 0 – 90°
Head Tilt (Front-to-Back / Up-Down)	+45° – 0 – -38°
Head Swivel on Turret	360°
Quill	
Quill Diameter	3-3/8" (85.725 mm)
Quill Travel – Manual & Power Feed	5" (127 mm)
Quill feeds – With Trip Release – Inch	0.0015" / 0.003" / 0.006"
Quill feeds – With Trip Release – Metric	0.04 mm / 0.08 mm / 0.16 mm
Dimensions & Weight	
Machine Weight	2,222 lbs (1,010 kg)
Electrical Requirements – 220 volts	3-Ph /60 Hz / 9.5 amps



GMV-3F

10" x 54" Heavy Duty Milling Machine

- + Class-7 Precision Spindle Bearings
- + 3-Horsepower Variable Speed Spindle
- + Square Box Slideways on Y & Z Axes
- + Hard-Chrome Plated, Ground & Lapped Quill
- + R - 8 Taper Spindle
- + Coolant Proof Halogen Lamp Standard
- + 10" x 54" Table Dimensions
- + 4,000 RPM Digital Variable Speed Option Available

Table	
Table Size (W x L)	10" x 54" (254 x 1,372 mm)
T-slot Width / Quantity	5/8" (15.9 mm wide) 3 on 2.5" centers
Table Load Capacity	440 lbs (200 kg)
Table Load Capacity (Evenly Distributed)	950 lbs (430 kg)
Table Height - Surface to floor adjustment	37.4" – 52.8" (950 - 1,340 mm)
Machine Travels & Capacity	
Table Travel – X Axis (Optional Power Feed)	35" / 30.3" (889 mm) / (770 mm)
Cross Travel – Y Axis	17.5" (444.5 mm)
Vertical Knee Travel – Z Axis	15.05" (383.27 mm)
Ram Travel (Overarm) / Swivel	18.5" (470 mm) / 360°
Spindle Nose-to-Table Surface Travel	5.3" - 20.7" (135 - 525 mm)
Z ² - Quill Travel - Manual & Power Feed	5" (127 mm)
Quill Feeds - With Trip Release - Inch	0.0015" / 0.003" / 0.006"
Quill Feeds - With Trip Release - Metric	0.04 mm / 0.08 mm / 0.16 mm
Quill Diameter	3-3/8" (85.725 mm)
Leadscrew ground pitch (X & Y)	0.2" per rev (ballscrews optional)
Scale ring resolution in inches	0.001" (5 mm) (with adjustable zero position)
Ways - Hardened & Ground	Dovetail Ways in X axis / Square Box Ways in Y & Z axes
Spindle Head-Twin Swivel (Forward-Back & Left right)	
Spindle Motor	3-HP / 3-Phase 220 volts (440 Optional)
Spindle Taper (hardened & ground)	R - 8
Spindle Runout	0.0002" maximum runout (0.005 mm)
Spindle Bearings ABEC - 7 matched set	ABEC - 7 matched set Class-7 bearings
Variable Speed Drive - Dual Range	60 - 500 RPM (low-range) / 500 - 4,500 RPM (high-range)
Head Tilt (Left-to-Right)	90° – 0 – 90°
Head Tilt (Front-to-Back / Up-Down)	+45° – 0 – -38°
Head Swivel on Turret	360°
Dimensions & Weight	
Power Requirements 3-Phase Power	220 vac /15 amps (440 vac optional)
Machine Weight	2,750 lbs (1,250 kg)
Machine Dimensions L x W x H	65" x 66" x 87"

GANESH**GMV-4**

12" x 54" Heavy Duty 40-Taper Milling Machine

- + 5-HP spindle motor
- + #40 taper heavy duty spindle
- + Hardened and ground square boxways in "Y" and "Z"
- + Hardened and ground table and T-slots
- + Hardened, ground and chrome-plated quill
- + ABEC class - 7 precision spindle bearings
- + Built-in 1.5-HP knee powerfeed

Table		
Table Size (W x L)	12" x 54"	(305 x 1,372 mm)
T-slot Width (3 Ground T-Slots)	5/8" with ground reference edges (15.9 mm wide)	
Table Capacity	1,200 lbs	
Machine Travels & Capacity		
Table Travel – X Axis (With Power Feed)	36" / 33.8"	(914 / 860 mm) / 32" (812 mm)
Cross Travel – Y Axis	16"	(400 mm)
Vertical Knee Travel – Z Axis	16"	(406 mm)
Ram Travel (Overarm) / Swivel	17.7"	(450 mm)
Spindle Nose-to-Table Surface Travel	2" – 18"	(50 – 457 mm)
Quill Travel - Manual & Power Feed	5"	(127 mm)
Quill Feeds - With Trip Release - Inch	0.0015" / 0.003" / 0.006"	
Quill Feeds - With Trip Release - Metric	0.04 mm / 0.08 mm / 0.16 mm	
Quill Diameter	4.13"	(105 mm)
Leadscrew ground pitch (X & Y)	0.2" per rev	(5 mm)
Slide Ways		
Hardened & Ground Meehanite Cast Iron		
Longitudinal Table – X Axis	Hardened & Ground Dovetail Ways	
Cross Slide to Knee – Y Axis	Hardened & Ground Square Box Ways	
Knee to Column – Z Axis	Hardened & Ground Square Box Ways	
Spindle Head		
Head Tilt (Left-to-Right)	90° – 0 – 90°	
Head Tilt (Front-to-Back / Up-Down)	45° – 0 – 45°	
Head Swivel	360°	
Spindle Motor	5 HP / 3 Phase / 220 vac	
Spindle Taper	NT #40 NMTB N.S. Spindle Taper	
Spindle Runout	0.0002" maximum runout (0.005 mm)	
Spindle Bearings	ABEC - 7 matched set of Class-7 bearings	
Variable Speed Drive - Dual Range	80 – 520 RPM (low-range) / 520 – 4,000 RPM (high-range)	
<i>NOTE: 5,000 RPM Electronic Variable-Speed Spindle available with optional AC Inverter Spindle Head</i>		
Dimensions & Weight		
Power Requirements 3-Phase Power	220 vac @ 22-amps	
Machine Weight	3,520 lbs	(1,600 kg)
Coolant Capacity	11-Gallons	(41 liters)



GMV-5

12" x 58" Super Heavy Duty 40 Taper Milling Machine

- + 5-HP spindle motor
- + #40 taper heavy duty spindle
- + Hardened and ground square boxways in "Y" and "Z"
- + Hardened and ground table and T-slots
- + Hardened, ground and chrome-plated quill
- + ABEC class-7 precision spindle bearings
- + Less than 0.0002-inch spindle runout
- + Built-in 1.5-HP knee powerfeed

Table		
Table Size (W x L)	12" x 58"	(305 x 1,473 mm)
T-slot Width (3 Hardened & Ground T-Slots)	5/8" with ground reference edges (15.9 mm wide)	
Table Capacity	1,500 lbs	
Machine Travels & Capacity		
Table Travel – X Axis (With or without Power Feed)	40.5"	(1,028 mm)
Cross Travel – Y Axis	15.75"	(400 mm)
Knee Travel – Z Axis	16"	(406 mm)
Ram Travel (Overarm) / Swivel	17.7"	(450 mm)
Spindle Nose-to-Table Surface Travel	2" – 18"	(50 – 457 mm)
Quill Travel - Manual & Power Feed	5"	(127 mm)
Quill Feeds - With Trip Release - Inch	0.0015" / 0.003" / 0.006"	
Quill Feeds - With Trip Release - Metric	0.04 mm / 0.08 mm / 0.16 mm	
Quill Diameter	4.13"	(105 mm)
Leadscrew ground pitch (X & Y)	0.2" per rev	(5 mm)
Slide Ways		
Hardened & Ground Meehanite Cast Iron		
Longitudinal Table –X Axis	Hardened & Ground Dovetail Ways	
Cross Slide to Knee –Y Axis	Hardened & Ground Square Box Ways	
Knee to Column – Z Axis	Hardened & Ground Square Box Ways	
Spindle Head		
Head Tilt (Left-to-Right)	90° – 0 – 90°	
Head Tilt (Front-to-Back / Up-Down)	45° – 0 – 45°	
Head Swivel	360°	
Spindle Motor	5 HP / 3 Phase / 220 Vac.	
Spindle Taper	NT #40-Taper	
Spindle Runout	0.0002" maximum runout (0.005mm)	
Spindle Bearings	ABEC - 7 matched set of Class-7 bearings	
Variable Speed Drive - Dual Range	80 – 520 RPM (low-range) / 600 – 4,000 RPM (high-range)	
<i>NOTE: 5,000 RPM Spindle available with optional AC Inverter Spindle Head</i>		
Dimensions & Weight		
Power Requirements 3-Phase Power	220 vac @ 26-amps	
Machine Weight	3,740 lbs	(1,700 kg)
Coolant Capacity	13.5-Gallons	(51 liters)

GANESH

GMV-205F

12" x 51" Super Heavy Duty 40 Taper Milling Machine

- + Programable Servo Controlled Ballscrew driven X, Y Table Travels
- + Available with an Optional Horizontal Spindle
- + Digital Control Touch Panel and LED Spindle Speed Readout
- + 7.5-Horsepower Spindle Motor and # 40 NST (NMTB) Spindle
- + Infinitely Variable Spindle Speeds 90 – 3,500 RPM
- + Integral Digital Position Readouts in X & Y axis
- + 12" x 51" Table Surface
- + Power Quill Feed and Power Knee Travels

Table	
Table Size (Hardened & Grounded)	11.8" x 51.18" (300 x 1,300 mm)
T-slot Width (3 Hardened T-Slots on 2.5" centers)	5/8" (15.875 mm wide)
Table Height – Surface to floor measurement	36.8" – 54.9" (435 – 1,395 mm)
Table Load Maximum	440 lbs (200 kg)
Machine Travels & Capacity	
Table Travel – X Axis	32" (815 mm)
Cross Travel – Y Axis	15" (380 mm)
Knee Travel – Z Axis	18" (460 mm)
Ram Travel (Overarm) / Swivel	18.5" (470 mm)
Spindle Nose-to-Table Surface Travel	1.5" – 19.6" (40 – 500 mm)
Spindle Nose-to-Column Travel	14" – 32.5" (355 – 825 mm)
Quill Travel - Manual & Power Feed	5" (127 mm)
Quill Feeds - With Trip Release - Inch	0.00015" / 0.0003" / 0.0006"
Quill Feeds - With Trip Release - Metric	0.004 mm / 0.008 mm / 0.016 mm
Scale Ring resolution in Inches	0.001" (5 mm) with adjustable zero position
Ways – Hardened & Ground	Square Box Ways in Y & Z-axes
Spindle Head	
Head Tilt (Left-to-Right)	90° – 0 – 90°
Head Swivel	360°
Spindle Motor	5 HP / 3 Phase / 220 Vac. (440 Vac. optional)
Spindle Taper	#40 NST (NMTB)
Spindle Runout	0.0002" maximum runout (0.005 mm)
Spindle Bearings	ABEC - 7 matched set of Class-7 bearings
Quill Diameter	3 - 3/8" (85.725 mm)
Variable Speed Spindle Drive	90 – 3,500 RPM
<i>NOTE: 5,000 RPM Spindle available with optional AC Inverter Spindle Head</i>	
Dimensions & Weight	
Power Requirements 3-Phase Power	220 vac, 7-kVA (440 vac optional)
Machine Weight	3,960 lbs (1,800 kg)
Machine Dimensions D x W x H	68" x 85" x 99"
Shipping Dimensions D x W x H	72" x 58" x 88"

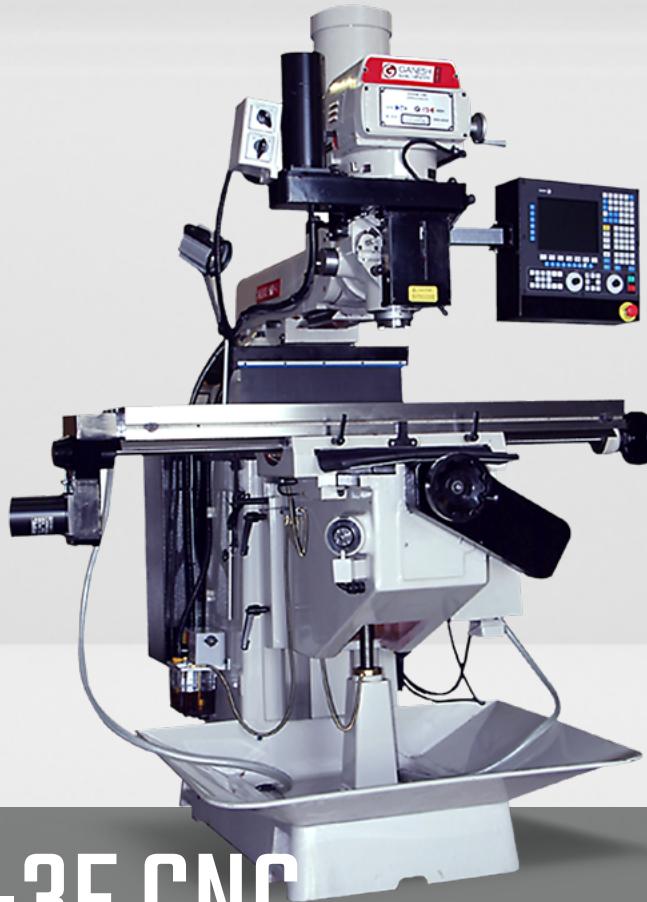


GMV-1F / 2F CNC

9" x 42" – 50" CNC Plus Mill

- + 3-Horsepower Variable Speed Head
- + Class-7 Super Precision Spindle Bearings
- + Hard-Chrome Plated and Mirror Ground Quill
- + Hard-Chrome Plated X & Y Axis Ways
- + 9" x 42" Table Dimensions
- + Coolant Proof Halogen Lamp Standard

Table	
GMV-1F Table Size (W x L)	9" x 42"
GMV-2F Table Size (W x L)	9" x 50"
T-Slot Width (3 T-Slots)	5/8" T-Slots with ground reference edges (15.9 mm)
Table Load Capacity (Evenly Distributed)	GMV-1F (850 lbs) GMV-2F (900 lbs)
Machine Travels & Capacity	
<i>Travels may be reduced by limit switches, ballscrew bumpers, CNC etc</i>	
Table Travel – X Axis (under CNC control)	GMV-1F 26" GMV-2F 31.5"
Cross Travel – Y Axis	11.4"
Knee Travel – Z Axis	16" (406 mm)
Ram Travel	17.7" (450 mm)
Spindle Nose-to-Table Surface Travel	2" – 18" (50 – 457 mm)
Quill Travel – Z Axis in 3-Axis Version	5" (127 mm) (manual & Powerfeed travel w/o 3rd)
Quill Feeds - With Trip Release - Inch	0.0015" / 0.003" / 0.006"
Quill Feeds - With Trip Release - Metric	0.04 mm / 0.08 mm / 0.16 mm
Quill Diameter	3 – 3/8" (85.725 mm)
Ballscrews (X & Y)	0.200" per rev
Adjustable scale ring display resolution	0.001" (5 mm)
Spindle Head	
Head Tilt (Left-to-Right)	90° – 0 – 90°
Head Tilt (Front-to-Back / Up-Down)	45° – 0 – 38°
Head Swivel	360°
Spindle Motor	3 HP / 3 Phase / 208 – 240 vac
Spindle Taper	R - 8 (ISO 30-taper optional)
Spindle Runout	0.0002" maximum runout (0.005 mm)
Spindle Bearings	Fafnir ABEC - 7 matched set of Class-7 bearings
Variable Speed Drive - Dual Range	60 – 500 RPM (low-range) / 500 – 4,500 RPM (high-range)
<i>NOTE: 6,000 RPM Spindle available with optional AC Inverter Spindle Head</i>	
Dimensions & Weight	
Power Requirements	220 vac ±5% / 3-Phase
Machine Weight	2,407 lbs (1,200 kg)



GMV-3F CNC

10" x 54" CNC Plus Mill

- + Full Manual & CNC Capability
- + Ideal for R&D Toolroom shops
- + Easy to use CNC Control
- + Precision Ball Screws
- + Rugged Meehanite castings with high density cast iron
- + Hardened & Ground Table ways
- + Class 7 Spindle Bearings
- + 3rd Axis DRO included with 2 Axis CNC Mills

Table		
Table Size (W x L)	10" x 54"	(254 x 1,372 mm)
T-Slot Width (3 T-Slots)	5/8" T-Slots with ground reference edges (15.9 mm)	
Table Load Capacity (Evenly Distributed)	950 lbs	(430 kg)
Machine Travels & Capacity		
Travel may be reduced by CNC limit switches		
Table Travel – X Axis (under CNC control)	34.5"	(875 mm)
Cross Travel – Saddle / Y Axis	16.3"	(415 mm)
Knee Travel –Z Axis	15.75"	(400 mm)
Spindle Nose-to-Table Surface Travel	2" – 18"	(50 – 457 mm)
Quill Travel - CNC Z Axis	5"	(127 mm) (manual & Powerfeed travel w/o 3rd)
Quill Feeds - With Trip Release - Inch	0.0015" / 0.003" / 0.006"	
Quill Feeds - With Trip Release - Metric	0.04 mm / 0.08 mm / 0.16 mm	
Quill Diameter	3 – 3/8"	(85.725 mm)
Ballscrew ground pitch (X & Y)	0.2" per rev	
Adjustable scale ring resolution	0.001"	(5 mm)
Ways - Hardened & Ground	Dovetail Ways in X-Axis	
Spindle Head		
Spindle Motor	3 HP	
Spindle Taper	R - 8 #30 taper & #40 taper optional	
Spindle Runout	0.0002" maximum runout (0.005 mm)	
Spindle Bearings	ABEC - 7 matched set Class-7 bearings	
Head Tilt (Left-to-Right)	90° – 0 – 90°	
Head Tilt (Front-to-Back / Up-Down)	45° – 0 – 45°	
Head Swivel	360°	
Dimensions & Weight		
Power Requirements 3-Phase	220 vac	21 amps
Machine Dimensions L x W x H	65" x 66" x 87"	
Machine Weight	3,482 lbs	(1,580 kg)

Ganesh

GMV-4 CNC

12" x 54" 40-Taper Heavy Duty CNC Plus Mill

- + Full Manual & CNC Capability
- + Ideal for R&D Toolroom shops
- + Easy to use CNC Control
- + Precision Ball Screws
- + Rugged Meehanite castings with high density cast iron
- + Hardened & Ground Table ways
- + Class 7 Spindle Bearings
- + 3rd Axis DRO included with 2 Axis CNC Mills

Table	
Table Size (W x L)	12" x 54" (254 x 1,372 mm)
Table Travel with CNC Control	33.5" (850 mm)
Travel Capacity	1,200 lbs
T-Slot Width (3 T-Slots)	5/8" T-Slots with ground reference edges (15.9 mm wide)
Machine Travels & Capacity	
Table Travel – X Axis	34.75"
Cross Travel – Y Axis	14"
Knee Travel	16" (406 mm)
Ram Travel	17.7" (450 mm)
Spindle Nose-to-Table Surface Travel	2" – 18" (50 – 457 mm)
Ballscrew ground pitch (X & Y)	0.2" per rev
Adjustable scale ring resolution	0.001" (0.0254 mm)
Slide Ways	
<i>Hardened & Grounded Meehanite® Processed Cast Iron</i>	
Longitudinal Table - Z Axis	Hardened & Ground Dovetail Ways
Cross Slide to Knee - Y Axis	Hardened & Ground Square Box Ways
Knee to Column	Hardened & Ground Square Box Ways
Spindle Head	
Head Tilt (Left-to-Right)	90° – 0 – 90°
Head Tilt (Front-to-Back / Up-Down)	45° – 0 – 45°
Head Swivel	360°
Spindle Motor	5-HP / 3 Phase 208 - 240 vac.
Spindle Taper	NMTB #40 N.S. Taper
Spindle Runout	0.0002" maximum runout (0.005 mm)
Spindle Bearings	Fafnir ABEC - 7 Matched set of Class-7 Bearings
Variable Speed Drive - Dual Range	80 - 520 RPM (low-range) / 600 - 4,000 RPM (high-range)
<i>Note: 5,000 RPM Electronic Variable-Speed Spindle available with the optional AC Inverter Spindle Head</i>	
Quill	
Quill Travel - CNC Z-Axis	5" (127 mm) Manual & Power Feed w/o 3rd CNC Axis
Quill feeds (per rev) with Trip Release - Inch	0.0015" / 0.003" / 0.006"
Quill feeds (per rev) with Trip Release - Metric	0.04 mm / 0.08 mm / 0.16 mm
Quill Diameter	4.13" (105 mm)
Dimensions & Weight	
Power Requirements 3-Phase	208 - 220 vac ±5% @ 22 amps (440 vac optional) / 110 vac 20-am dedicated service required for CNC Control
Coolant Capacity	11-Gallons (41 liters)
Machine Weight	1,600 kg



GMV-5 CNC

12" x 54" Heavy Duty CNC Plus Mill

- + FAGOR 8055 MC CNC Teach Control
- + 12" x 58" Hardened & Ground Work Table
- + Box Ways on Saddle & Column for High Cutting Rigidity
- + Tilting-Head Solutions Available for Angle Work
- + #40 Taper Spindle with Class-7 Precision Fafnir Spindle Bearings
- + 5-HP Motor w/ 80 - 4,000 RPM Spindle Speeds
- + Precision Double-Nut Preloaded Ballscrews
- + Spring-Loaded Way Covers for Saddle and Column
- + Knee Power-Feed & Hard-Chrome Plated Quill

Table		
Table Size (W x L)	12" x 58"	(305 x 1,473 mm)
Table Travel with CNC Control	33.5"	(850 mm)
Travel Capacity	1,500 lbs	
T-Slot Width (3 T-Slots)	5/8" T-Slots with ground reference edges (15.9 mm wide)	
Machine Travels & Capacity		
Table Travel – X Axis	34"	
Cross Travel – Y Axis	15"	
Knee Travel	16"	(406 mm)
Ram Travel	17.7"	(450 mm)
Spindle Nose-to-Table Surface Travel	2" – 18"	(50 – 457 mm)
Ballscrew ground pitch (X & Y)	200" per rev	(5 mm)
Adjustable scale ring resolution	0.001"	(0.0254 mm)
Slide Ways		
<i>Hardened & Grounded Meehanite® Processed Cast Iron</i>		
Longitudinal Table - Z Axis	Hardened & Ground Dovetail Ways	
Cross Slide to Knee - Y Axis	Hardened & Ground Square Box Ways	
Knee to Column	Hardened & Ground Square Box Ways	
Spindle Head		
Head Tilt (Left-to-Right)	90° – 0 – 90°	
Head Tilt (Front-to-Back / Up-Down)	45° – 0 – 45°	
Head Swivel	360°	
Spindle Motor	5-HP / 3 Phase	208 - 240 vac
Spindle Taper	NMTB #40 N.S. Taper	
Drawbar Thread	5/8" - 11	
Spindle Runout	0.0002" maximum runout (0.005 mm)	
Spindle Bearings	Fafnir ABEC - 7 Matched set of Class-7 Bearings	
Variable Speed Drive - Dual Range	80 - 520 RPM (low-range) / 600 - 4,000 RPM (high-range)	
<i>Note: 5,000 RPM Electronic Variable-Speed Spindle available with the optional AC Inverter Spindle Head</i>		
Quill		
Quill Travel - CNC Z-Axis	5" (127 mm)	Manual & Power Feed w/o 3rd CNC Axis
Quill feeds (per rev) with Trip Release - Inch	0.0015" / 0.003" / 0.006"	
Quill feeds (per rev) with Trip Release - Metric	0.04 mm / 0.08 mm / 0.16 mm	
Quill Diameter	4.13"	(105 mm)
Dimensions & Weight		
Power Requirements 3-Phase	208 - 220 vac ±5% @ 22 amps (440 vac optional) / 110 vac 20-am dedicated service required for CNC Control	
Coolant Capacity	11-Gallons	(41 liters)
Machine Weight	3,900 lbs	



GHT-618 EVS

High Accuracy Toolroom Lathe

- + 3-Horsepower Electronic Variable-Speed Inverter Motor
- + 130 - 4,000 RPM Infinitely Variable Spindle Speeds
- + 11" Swing x 18" Between Centers
- + Power Feeds in Both Cross and Longitudinal Axis

Work Holding Capacity

With Round 5C Collets	1-1/16"	(27 mm)
With Hex 5C Collets	7/8"	(22 mm)
With Square 5C Collets	3/4"	(19 mm)
With Expanding Collets	3"	(76 mm)
With Step Chucks	1-1/16" to 6"	(27 to 152.4 mm)
With 3 & 4 Jaw Chucks	6"	(152 mm)

Machine Capacity

Swing over bed	11"	(280 mm)
Swing over carriage	9"	(228.6 mm)
Swing over cross slide	6"	(152.44 mm)
Distance between centers	18"	(457 mm)
Tailstock quill	MT#2	
Main Motor	3-HP / 220 vac 3-phase 20 amps, or single phase 35-amp service (peak)	
Coolant Pump	1/8-HP / 220 vac 3-phase only (with coolant nozzle & flow control valve)	

Machine Travel & Specifications

Cross Slide Travel	6"	(152 mm)
Compound Slide Travel	3"	(76 mm)
Quick Action Compound Slide Motion	0.1"	(2.5 mm) (eg. For thread pull out)
Tailstock Quill Travel	3-3/4"	(95 mm) features inch & metric quill graduations
Inch Threads (36)	11 - 108 TPI	Threading gearbox selectable w/o change gears
Metric Threads (36)	0.275 - 2.7 mm	Threading gearbox selectable w/o change gears
Carriage Slide Powerfeed Range	5/16" - 7" per minute	(8 to 178 mm)
Cross Slide Powerfeed Range	3/16" - 4" per minute	(5 to 102 mm)
Net Weight	1,804 lbs	(820 kg)
Machine Dimensions L x D x H	74" x 30" x 66"	(1,880 mm x 762 mm x 1,676 mm)



13" x 40" Toolroom Engine Lathe

- + Hardened and ground Turcite® coated bed ways
- + Hardened and ground gears
- + 8-speed geared head spindle
- + Safety foot brake
- + Safety chuck guard
- + Coolant pump included
- + Chucks, steady rest and follow rest included

Capacity & Dimensions

Swing over Bed	13"
Center Height	6-1/2"
Swing over Cross Slide	7-25/32"
Swing thru Gap	18-3/4"
Length of Gap in front of face plate, D1 - 4	4-1/2"
Distance between Centers	40"
Bed casting width, length, depth	7-3/8" / 65-1/8" / 11-13/32"

Spindle

Spindle Motor Horsepower	3-HP	HIGH	1,255	2,000	755	460
Spindle Speeds - 8 speed geared head RPM	70 - 2,000	LOW	190	300	115	70
Spindle Bore	1-1/2"					
Spindle Nose	D1 - 4					
Spindle taper in Spindle Nose	MT - 5	Morse Taper-5				

Carriage

Cross Slide Travel	6-5/16"	(160 mm)
Cross Slide Width	4-5/8"	(118 mm)
Cross Slide Lead Screw Pitch	8 TPI	
Cross Slide Resolution per division	0.25" / rev	(on diameters)
Carriage Lead Screw Diameter / Pitch	7/8" / 8 TPI	22 mm / 3 mm pitch
Feed Rod Dimension	3/4" hexagon	19 mm hexagon

Compound

Compound Top Slide Travel	2-11/16"	(68 mm)
Compound Top Slide Width	3"	(76 mm)
Cutting Tool Height Maximum	5/8" x 5/8"	16 mm x 16 mm

Tailstock

Quill Diameter	1-21/32"	(42 mm)
Quill Stroke	4-1/2"	(114 mm)
Quill Taper	MT - 3	Morse Taper #3
Quill Tang Drive and Drift-Slot for Tailstock	included	
Tailstock Body set-over adjustment	±0.04"	±1 mm

Thread Cutting

Thread Cutting Range - 31 inch pitches	4 - 56 TPI	
Thread Cutting Range - 26 metric pitches	0.4 - 7 mm	
Thread Cutting Range - 32 diametral pitches	8 - 120 D.P.	(optional)
Thread Cutting Range - 21 module pitches	0.2 - 3 M.P.	(optional)

Feeds

Feeds - Longitudinal - 32 Feeds	0.002" - 0.548" / rev
Feeds - Cross - 32 Feeds	0.0007" - 0.0187" / rev

Weight & Dimensions

Machine Dimensions - L x W	76-3/8" x 29-3/4"	(1,940 x 755 mm)
Machine Height	48-3/4"	(1,238 mm)
Overall Machine Weight	1,345 lbs	610 kg
Electrical Power Requirements	220 volts / 3 Phase @ 8.50 amps	



16" x 40" / 60" Heavy Duty Engine Lathe

- + Hardened and ground Turcite® coated bed ways
- + Hardened and ground gears
- + 12-speed geared head spindle
- + Safety foot brake
- + Safety chuck guard
- + Coolant pump included
- + Chucks, steady rest and follow rest included

Capacity & Dimensions

Swing over Bed	16"	(410 mm)
Center Height	8-1/6"	(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	+	540	1,600	325	1,000	700	2,000
Spindle Speeds - 12 speeds 30 - 2,000 RPM	30 - 2,000 RPM	-	55	160	30	95	70	200
Spindle Bore	2 1/16"							
Spindle Nose	D1 - 6							
Spindle taper in Spindle Nose	MT - 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 Dimension	7/8" hexagon	23 mm hexagon

Compound

Compound Top Slide Trave / 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

Quill Diameter	2-1/8"	(54 mm)
Quill Stroke	4-3/4"	(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" 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

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

GANESH



GTW-20

20" Heavy Duty Engine Lathe

- + Heavy duty 10-HP D1 - 8 spindle with 20" Swing
- + 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

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	+	1,550	150	680	60	1,100	100
Spindle Speeds - 12 speeds 20 - 1,550 RPM (high to low)		-	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

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)

Tailstock (2 speed quill advance)

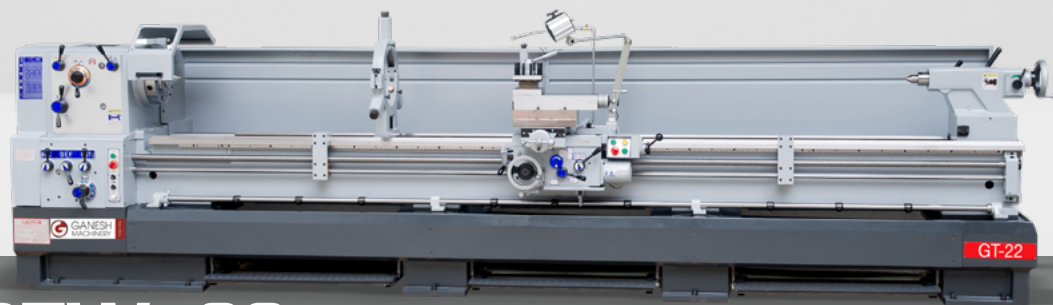
Quill Diameter	2-15/16"	(255 mm)
Quill Stroke	6-5/16"	(160 mm)
Quill Taper	MT - 5	Morse Taper #5
Quill Tang Drive and Drift-Slot for Tailstock	included	
Tailstock Body set-over adjustment	±0.04"	±1 mm

Thread Cutting

Leadscrew Diameter / Pitch	1-1/2" / 4 TPI	38 mm / 6 mm pitch
Thread Cutting Range - 60" pitches	2 - 112 TPI	
Thread Cutting Range - 60 metric pitches	0.2 - 14 mm	
Thread Cutting Range - 50 diametral pitches	4 - 112 M.P.	
Thread Cutting Range - 50 module pitches	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)
Feed stop shaft	4 adjustable automatic feed stops to disengage the longitudinal feed	
Coolant Pump	1/8 HP	
Machine Power Requirements (440vac optional)	220 vac / 3 Phase / 30 amps	



GTW-22

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

Capacity & Dimensions

Swing over Bed	22"	(560 mm)
Center Height	11"	(280 mm)
Swing over Cross Slide	14-1/8"	(360 mm)
Swing thru Gap	29-3/8"	(745 mm)
Length of Gap in front of D1-11 face plate	6-1/2"	(165 mm)
Bed Width	16-1/8"	(400 mm)

Spindle

Spindle Motor Horsepower	15 HP	12 kw	HIGH	1,200	120	520	50	860	85
Spindle Speeds - 12 speeds 15 - 1,200 RPM (high to low)			LOW	375	35	160	15	265	25
Spindle Bore	4-1/8"	(105 mm)							
Spindle Nose	D1 - 11 Camlock	(A1 - 11 optional)							
Spindle taper in Spindle Nose	MT - 8	Morse Taper #8							
Spindle taper reduction sleeve provided	MT - 5	MT - 8 to MT - 5							
Spindle Max Weight Capacity (Chuck Only)	660 lbs	(300 kg)							
Spindle Max Weight Capacity (Chuck and Tailstock)	1,650 lbs	(750 kg)							
Spindle Max Weight Capacity (Chuck, Steady Rest & Tailstock)	3,300 lbs	(1,500 kg)							

Carriage

Cross Slide Travel	14.96"	(380 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)

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)

Tailstock (2 speed quill advance)

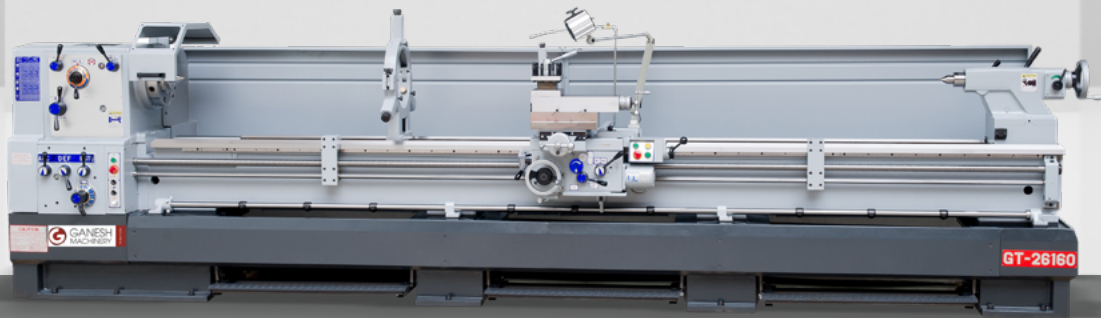
Quill Diameter	2-15/16"	(75 mm)
Quill Stroke	6-5/16"	(160 mm)
Quill Taper	MT - 5	Morse Taper #5
Quill advance - 2 gear selected advance speeds	1:1 2:1	
Tailstock body set-over adjustment	±0.04"	±1 mm

Thread Cutting

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	
Power Requirements	220 vac / 3 Phase / 40 Amps (440 vac optional)	



GTW-26

26" 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

Capacity & Dimensions

Swing over Bed	26"	(660 mm)
Center Height	13"	(330 mm)
Swing over Cross Slide	18-1/16"	(460 mm)
Swing thru Gap	33-1/4"	(845 mm)
Length of Gap in front of D1-11 face plate	6-1/2"	(165 mm)
Bed Width	16-1/8"	(400 mm)

Spindle

Spindle Motor Horsepower	15 HP	12 kw	HIGH	1,200	120	520	50	860	85
Spindle Speeds - 12 speeds 15 - 1,200 RPM (high to low)			LOW	375	35	160	15	265	25
Spindle Bore	4-1/8"	(105 mm)							
Spindle Nose	D1 - 11 Camlock	(A1 - 11 optional)							
Spindle taper in Spindle Nose	MT - 8	Morse Taper #8							
Spindle taper reduction sleeve provided	MT - 5	MT - 8 to MT - 5							
Spindle Max Weight Capacity (Chuck Only)	660 lbs	(300 kg)							
Spindle Max Weight Capacity (Chuck and Tailstock)	1,650 lbs	(750 kg)							
Spindle Max Weight Capacity (Chuck, Steady Rest & Tailstock)	3,300 lbs	(1,500 kg)							

Carriage

Cross Slide Travel	14.96"	(380 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)

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)

Tailstock (2 speed quill advance)

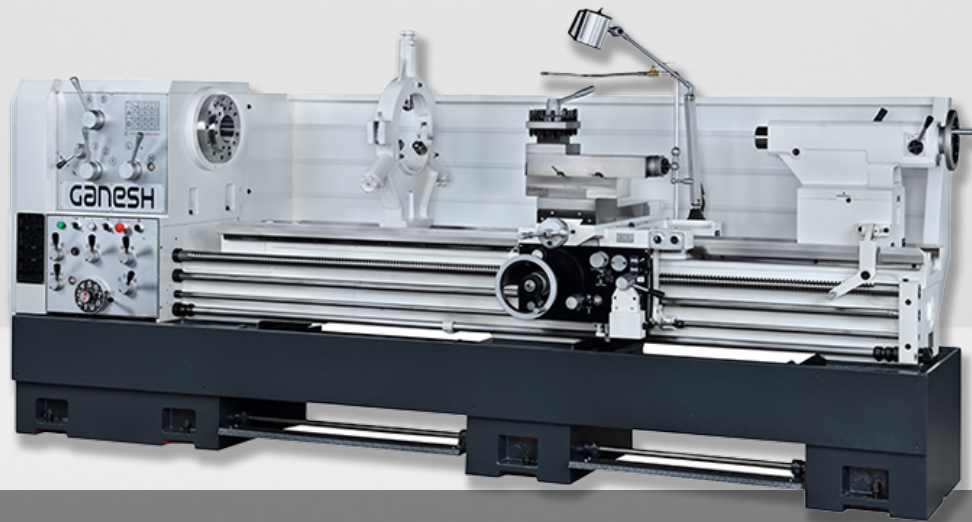
Quill Diameter	2-15/16"	(75 mm)
Quill Stroke	6-5/16"	(160 mm)
Quill Taper	MT - 5	Morse Taper #5
Tailstock body set-over adjustment	±0.04"	±1 mm

Thread Cutting

Thread Cutting Range - 60 inch pitches	2 - 112 TPI	2 - 112 TPI
Thread Cutting Range - 60 metric pitches	0.2 - 14mm	0.2 - 14mm
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
Power Requirements	220 vac / 3 Phase / 40 Amps (440 vac optional)

GANESH**GTD-30**

30" Heavy Duty Engine Lathe

- + Rapid Feeds for longitudinal and & cross motion
- + 15-HP Spindle motor
- + 12-Spindle Speed Gear-Ranges for High-Torque
- + Spindle Speeds from 23 – 1,300 RPM
- + A2 - 11 Spindle with 4-1/8" spindle bore
- + Swings 40.5" Through the Gap Bed
- + Tailstock features 2-Speed quill advance
- + 4-Adjustable longitudinal feed stops

Capacity & Dimensions

Swing over Bed	29.92"	(760 mm)
Swing over Cross Slide	19.69"	(500 mm)
Swing thru Gap	40.55"	(1,030 mm)
Width of Gap (measured from spindle nose)	12"	(305 mm)
Bed Width	16.54"	(420 mm)

Spindle

Spindle Motor Horsepower	15 HP	11.5 kw	HIGH	370	730	1,300	145	285	510
Spindle Speeds - 12 speeds 15 - 1,200 RPM (high to low)			LOW	60	115	210	23	45	82
Spindle Bore	4-1/8"	(105 mm)							
Spindle Nose	A2 - 11	A2 - 11							
Spindle taper in Spindle Nose	MT - 7	MT - 7							
Spindle taper reduction sleeve provided	MT - 5	MT - 5							
Spindle Max Weight Capacity (Chuck Only)	1,100 lbs	(500 kgs)							
Spindle Max Weight Capacity (Chuck and Tailstock)	2,200 lbs	(1,000 kg)							
Spindle Max Weight Capacity (Chuck, Steady Rest & Tailstock)	4,400 lbs	(2,000 kg)							

Carriage

Cross Slide Travel	15.75"	(400 mm)
Carriage Width	26.38"	(670 mm)

Compound

Compound Rest Travel	9.45"	(240 mm)
Cutting Tool Height Maximum	1.0"	(25 mm)

Tailstock (2 speed quill advance)

Quill Diameter	3.15"	(80 mm)
Quill Stroke	7.87"	(200 mm)
Quill Taper	MT - 5	Morse Taper #5
Quill Tange Drive and drift-slot for tailstock	included	included
Tailstock Body set-over adjustment	±1/2"	(±13 mm)

Thread Cutting

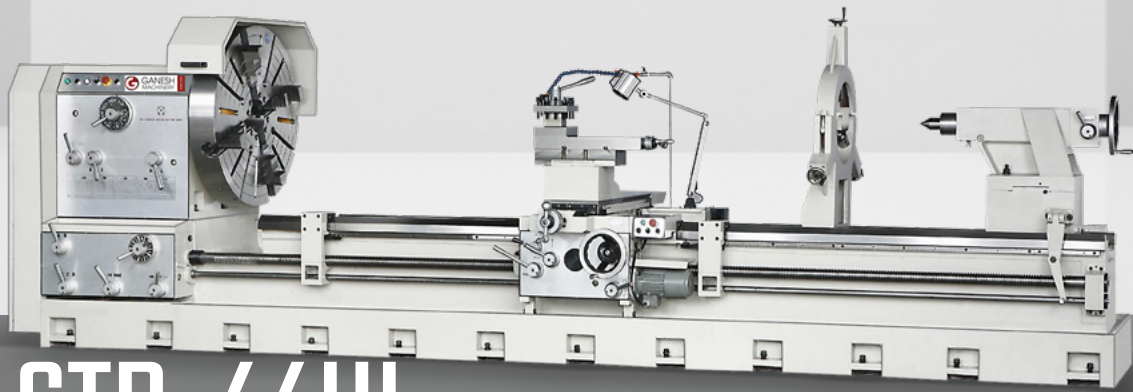
Lead screw diameter & pitch	1.77" x 2 T.P.I
Thread Cutting Range - 36" pitches	2 - 28 TPI
Thread Cutting Range - 65 metric pitches	0.8 - 14 mm
Thread Cutting Range - 36 diametral pitches	4 - 56 D.P.
Thread Cutting Range - 22 module pitches	0.5 - 7 M.P.

Feeds

Feeds - Longitudinal	0.0019" - 0.027" / rev 0.05 - .7 mm / rev
Feeds - Cross	0.00098" - 0.0137" / rev 0.025 - 0.35 mm / rev
Feed shaft stop control	4 adjustable automatic feed stops to disengage the longitudinal feed
Feed Rod Diameter	1.26" (32 mm)

Electrical Requirements

Connected Load - 12 kw	10 kVA / 220 vac / 42 amps / (440 vac optional)
Rapid Traverse Motor	1/4 HP (0.1875 kw)
Coolant Motor / Coolant Tank Capacity	1/8 HP / 11-gal (40 liters)



GTD-44HL

44" – 55" Heavy Duty Big Bore Lathes

- + Hardened and ground Turcite® coated bed ways
- + Hardened and ground gears
- + 30-HP spindle motor
- + 16-speed geared head spindle
- + Rear spindle mount optional
- + Safety chuck guard
- + Coolant pump standard
- + Up to 315-inch bed length available

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 (measured from spindle nose)	22.05"	(560 mm)
Distance between Centers (Dependent upon bed selected)	39" – 315"	(1,000 - 8,000 mm)
Bed Width	24"	(610 mm)

Spindle

Spindle Motor Horsepower	30 HP	HIGH	165	225	420	35	19	14	26	310
Spindle Speeds - 6" Bore = 16 speeds from 4 - 420 RPM		LOW	48	65	120	10	5.5	4	7	90
Spindle Bore - (10", 12" & 15" spindle bores optional)	6"									
Spindle Nose	A2 - 11									
Spindle taper in Spindle Nose	MT - 7									
Spindle center height to base	49"									

Spindle Weight Capacity

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

Carriage

Cross Slide Travel	20.87"	(530 mm)
Carriage 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 (2 speed quill advance)

Quill Diameter (5.9" diameter optional)	4.92"	(125 mm)
Quill Stroke	11.8"	(300 mm)
Quill Taper	MT - 6	MT - 7 Optional
Quill advance - 2 speed ratios	1:1 and 5:1	5X Thrust Force Multiplier
Tailstock body set-over adjustment	±0.4"	(±10 mm)

Thread Cutting

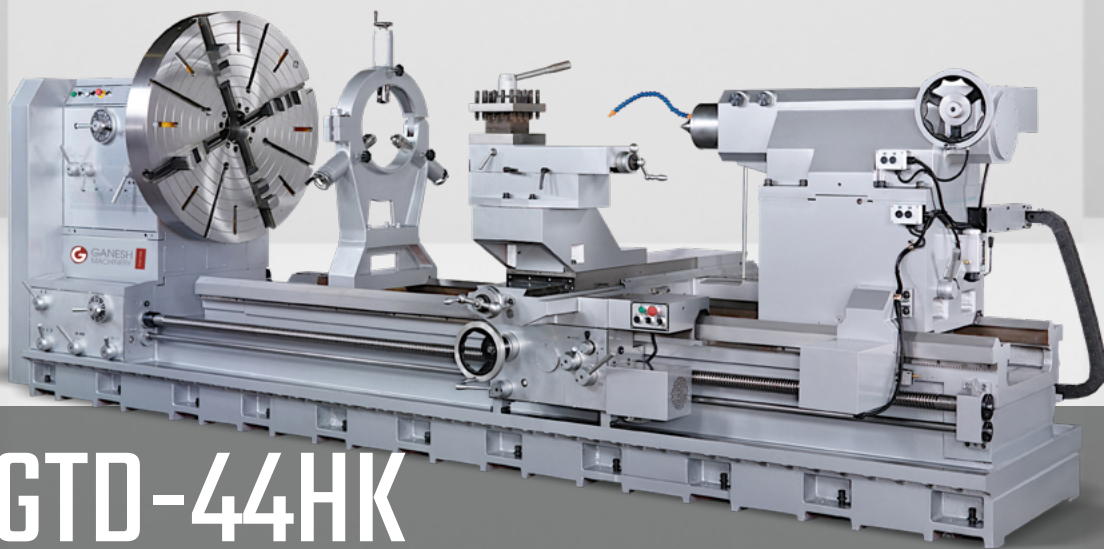
Lead screw diameter & pitch	2.36" x 2 TPI
Thread Cutting Range - 70" pitches	0.25 - 30 TPI
Thread Cutting Range - 62 metric pitches	1 - 120 mm
Thread Cutting Range - 70 diametral pitches	1 - 120 D.P.
Thread Cutting Range - 53 module pitches	0.25 - 30 M.P.

Feeds

Feed Shaft Diameter	1.26"	(32 mm)
Feeds - Longitudinal	0.0028" - 0.34 / rev	(0.072 - 8.68 mm / rev)
Feeds - Cross Sign	0.0014" 0.17" / rev	(0.036 - 4.34 mm / rev)

Power

Connected load - 86 Amps Full Load	Wired 440 vac	(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-44HK

44" – 55" Super Heavy Duty Big Bore Lathes

- + Hardened and ground Turcite® coated bed ways
- + Hardened and ground gears
- + 40-HP spindle motor
- + Double-set of spindle bearings
- + Rear spindle mount optional
- + Safety chuck guard
- + Coolant pump standard
- + Heavy duty 32" bed width

Capacity & Dimensions

Swing over Bed	44"	(1,120 mm)
Swing over Cross Slide	27.95"	(710)
Swing thru Gap	55.11"	(1,400 mm)
Width of Gap (measured from spindle nose)	21.26"	(540 mm)
Distance between Centers (Dependent upon bed selected)	39" – 315"	(1,000 - 8,000 mm)
Bed Width	32"	(810 mm)

Spindle

Spindle Bore - (9" , 10" , 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"	(1,245 mm)
Spindle Motor Horsepower	40-HP	
Spindle Speedsq	16 gears	4 - 420 RPM

Spindle Weight Capacity

Workpiece weight limit when held by chuck only	4,400 lbs	(2,000 kg)
Workpiece weight limit when held by chuck and tailstock	15,400 lbs	(7,000 kg)
Workpiece weight limit when held by chuck, tailstock & steadyrest	19,800 lbs	(9,000 kg)

Carriage

Cross Slide Travel	23.62"	(600 mm)
Carriage 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 1/2 HP electric motor driven	
Quill Drive	Push-button 1/2 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" 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 Sign	0.0014" 0.17" / rev	(0.036 - 4.34 mm / rev)

Power

Connected load - 86 Amps Full Load	Wired 440 vac (220 / 440 vac motor)	
Coolant Motor / Coolant tank capacity	0.25 HP	(0.2 kw)
Rapid Traverse Motor for cross & longitudinal motion	1 HP	(0.75 kw)



GTW-1840 CNC

18" x 40" CNC Lathe

- + 18" x 40" CNC Lathe
- + 18" Swing Diameter over Bedways
- + 40" Between Center
- + Compact Footprints make it ideal for R&D and Toolroom shops
- + Easy to use Fanuc or Fagor CNC Control
- + Safety chuck guard
- + Coolant pump standard
- + Meehanite casting help minimize vibration for superior finish and tool life
- + Hardened & Precision ground double-Vee / Double-Flat bedways for high rigidity
- + Automatic Metered lubrication system for ball screws and ways
- + Built in high capacity coolant system

Capacity & Dimensions

Swing over Bed	18"	(460 mm)
Swing over Cross Slide	9"	(230 mm)
Center Height	9"	(230 mm)
Center Distance	39.37"	(1,000 mm)
Bed Length	82.5"	(2,095 mm)
Bed Way Width	14-1/2"	(370 mm)
Bed Casting Height	13-3/8"	(340 mm)

Spindle

Spindle Motor Horsepower (7.5 kw - 11 kw Inverter Type)	15 HP Peak	(10 HP 30 min duty rating)
Spindle Speeds - 2 gear ranges L, H	43 - 2,500 RPM	infinitely variable, in 2 gear ranges
Spindle Speed per gear range	L = 43 - 850	H = 125 - 2,500 RPM
Constant Torque Ranges	L = 43 - 270	H = 125 - 800 RPM
Constant Power Ranges	L = 270 - 850	H = 800 - 2,500 RPM
Spindle Bore	2-3/8" (2.385")	(60 mm)
Spindle Nose - Camlock	D1 - 6 Camlock	(A2 - 6, 4,000 RPM optional)
Spindle ID Taper in Spindle Nose	MT - 6	MT#6

Cross Slide X Axis

Rapid Traverse Feedrate	393 IPM	(10 m / min)
X-Axis motor	FANUC	Beta IS4 0.75 kw (4,000 RPM)
Cross Slide Travel	10.63"	(270 mm)
Cross Slide Dimensions - width x length	8.26" x 27.5"	(210 x 700 m)
Cross Slide Ballscrew diameter / pitch	1" / 5 mm	(25 mm) Accuracy Grade C3
4-Way Programmable Toolpost - height / index speed	20 mm tool height / 4 second tool change time	
Cross Slide Thrust	1,190 lbs	(540 kg Force)

Carriage Z Axis

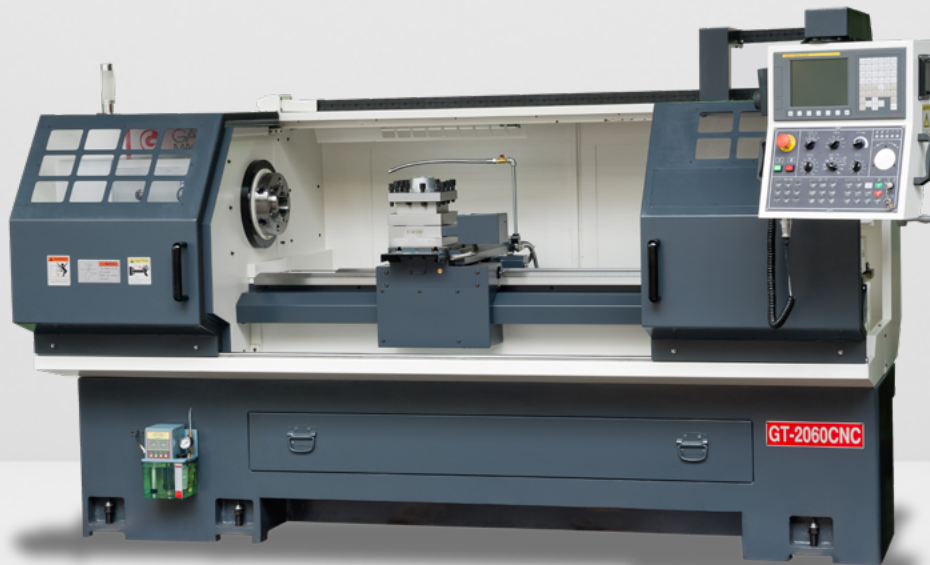
Rapid Traverse Feedrate	472 IPM	(12 m / min)
Z-Axis Motor	Fanuc	Beta IS4 0.75 kw (4,000 RPM)
Z-Axis Travel	38.58"	(980 mm)
Cutting Tool Height Maximum	0.79"	(20 mm)
Carriage ballscrew diameter	1-1/4"	(32 mm)
Carriage ballscrew pitch	5 mm	Accuracy Grade C3 (H-P Laser Tested)
Carriage Slide Thrust	1,190 lbs	(540 kg Force)

Tailstock

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	±0.4"	(±1 mm)

Specifications

Coolant Pump Motor / Coolant Capacity	1/8 HP / 13.2-gal	(50 liters)
Electrical Requirements	220 vac ±5%	60 Hz / 60 amp service
Machine Weight	5,072 lbs	(2,300 kg)
Shipping Weight	5,734 lbs	(2,600 kg)
Machine Dimensions (L x W x H)	100" x 55" x 73"	(2,525 x 1,400 x 1,840 mm)
Shipping Dimensions (L x W x H)	108" x 73" x 83"	(2,743 x 1,854 x 2,108 mm)



GTW-2060 CNC

20" x 60" CNC Lathe

- + 3.38" Bar Capacity
- + Ø20" Swing over bedways - 40" or 60" between Centers
- + 4-Way Programmable Indexing Toolpost
- + D1-8 Spindle Nose
- + 2-Programmable Gear Ranges for High-Torque
- + 10-HP Inverter Spindle Motor
- + FANUC 0i-TF CNC Control or Fagor 8055

Capacity & Dimensions

Swing over Bed	20.78"	(510 mm)
Swing over Cross Slide	11.02"	(280 mm)
Center Height	10.04"	(255 mm)
Center Distance	59.05"	(1500 mm)
Bed Length	102.2	(2595 mm)
Bed Way Width	14.5"	(370 mm)
Bed Casting Height	13-3/8"	(340 mm)

Spindle

Spindle Motor Horsepower	10 HP	(15 HP Peak) (7.5 kw - 11 kw)
Spindle Speeds - Programmable	30 - 1,600 RPM	infinitely variable, in 2 gear ranges
Spindle Speed Gear Ranges	L = [30 - 640]	H = 80 - 1600 RPM
Constant Power Ranges	L = 200 - 640	H = 500 - 1600 RPM
Constant Torque Ranges	L = 30 - 200	H = 80 - 500 RPM
Spindle Bore	3-3/8" (3.385")	(86 mm)
Spindle Nose - Camlock	D1 - 8 Camlock	
Spindle ID taper in spindle nose	Ø92mm x 1/20	Taper

Cross Slide X Axis

Rapid Traverse Feedrate	197 IPM	(5 m / min)
X-Axis motor power	FANUC	Beta IS4 0.75 kw 4000 RPM
Cross Slide Travel	10.63"	(270 mm)
Cross Slide Dimensions - width x length	8.26" x 27.5"	(210 x 700 mm)
Cross Slide Ballscrew diameter	.62/64"	(25 mm)
Cross Slide Ballscrew Pitch	5 mm	Accuracy Grade C3 (H-P Laser Tested)
Cross Slide Thrust	1,190 lbs	(540 kg Force)

Carriage Z Axis

Rapid Traverse Feedrate	197 IPM	(5 m / min)
Z-Axis Motor Power	FANUC	Beta IS4 0.75 kw (4,000 RPM)
Z-Axis Travel	38.58"	(980 mm) 59.05" (1500 mm)
Cutting Tool Height Maximum	1"	(25 mm)
Carriage ballscrew diameter	1.26"	(32 mm)
Carriage ballscrew pitch	5 mm	Accuracy Grade C3 (H-P Laser Tested)
Carriage Slide Thrust	1,190 lbs	(540 kg Force)

Tailstock

Quill Diameter	2.95"	(75 mm)
Quill Stroke - w/ selectable 2 speed Quill Advance	6.30"	(160 mm)
Quill Taper	MT - 5	Morse Taper #5
Quill Tang Drive and drift-slot for tailstock	included	
Tailstock body set-over adjustment	±0.4"	(±1 mm)

Specifications

Coolant Pump Motor	1/8 HP / 13.2-gal	
Coolant Tank Capacity	13.2-gal	(50 liters)
Electrical Requirements	220 vac ±5%	60 Hz / 60 amp service
Machine Weight	6,173 lbs	(2,800 kg)
Shipping Weight	7,055 lbs	(3,200 kg)
Machine Dimensions (L x W x H)	120" x 65" x 72"	
Shipping Dimensions (L x W x H)	131" x 73" x 78"	



GTW-2460 CNC

24" x 60" Heavy Duty CNC Lathe

- + 4.09" Bar Capacity
- + 24" Swing Diameter over Bedways
- + 60" Between Centers
- + Compact Footprints make it ideal for R&D and Toolroom shops
- + Easy to use Fanuc or Fagor CNC Control
- + Meehanite casting help minimize vibration for superior finish and tool life
- + Hardened & Precision ground double-Vee / Double-Flat bedways for high rigidity
- + Automatic Metered lubrication system for ball screws and way
- + Inch/metric threading, left or right hand threading
- + Built in high capacity coolant system

Capacity & Dimensions

Swing over Bed	24"	(610 mm)
Swing over Cross Slide	14.5"	(370 mm)
Center Height	12"	(305 mm)
Center Distance	59.05"	(1,500 mm)
Bed Length	102.36"	(2,600 mm)
Bed Way Width	15.75"	(400 mm)
Bed Casting Height	13 3/8"	(340 mm)

Spindle

Spindle Motor Horsepower	20 HP Peak	(15 HP 30 min duty) (11 kw - 15 kw)
Spindle Speeds - Programmable	30 - 1,600 RPM	infinitely variable, in 2 gear ranges
Spindle Speed 2 Gear Ranges - Programmable	M41 = 30 - 600	M42 = 80 - 1,600 RPM
Spindle Speed	H = 80 - 1,600 RPM	L = 30 - 600 RPM
Spindle Bore	ø4.09"	(104 mm) (90 mm with hydraulic chuck)
Spindle Nose - Camlock	D1 - 8 Camlock	75 mm Draw tube
Spindle Bearings - 2 bearing spindle	Tapered Roller Bearings front, roller bearing rear	
Spindle ID taper in spindle nose	MT - 8	MT#8 Taper

Cross Slide X Axis

Rapid Traverse Feedrate	197 IPM	(5 m / min)
X-Axis motor power	FANUC	Beta IS4 0.75 kw 4,000 RPM
Cross Slide Travel	12.63"	(320 mm)
Cross Slide Dimensions - width x length	9.05" x 29.9"	(230 x 760 mm)
Cross Slide Ballscrew diameter	.984"	(25 mm)
Cross Slide Ballscrew Pitch	5 mm	Accuracy Grade C3 (H-P Laser Tested)
Cross Slide Thrust	1,190 lbs	(540 kg Force)

Carriage Z Axis

Rapid Traverse Feedrate	197 IPM	(5 m / min)
Z-Axis Motor Power	FANUC	Beta IS4 0.75 kw (4,000 RPM)
Z-Axis Travel	59.05"	(1,500 mm)
Cutting Tool Height Maximum	1"	(25 mm)
Carriage ballscrew diameter	1.26"	(32 mm)
Carriage ballscrew pitch	5 mm	Accuracy Grade C3 (H-P Laser Tested)
Carriage Slide Thrust	1,190 lbs	(540 kg Force)

Tailstock

Quill Diameter	2.95"	(75 mm)
Quill Stroke - w/ selectable 2 speed Quill Advance	6.30"	(160 mm)
Quill Taper	MT - 5	Morse Taper #5
Quill Tang Drive and drift-slot for tailstock	included	
Tailstock body set-over adjustment	±0.4"	(±1 mm)

Specifications

Coolant Pump Motor	1/8 HP / 13.2 gal.	
Coolant Tank Capacity	10.5-gal	(40 liters)
Electrical Requirements	220 vac ±5%	60 Hz / 75 amp service
Machine Weight	8,820 lbs	(4,000 kg)
Shipping Weight	9,260 lbs	(4,200 kg)
Machine Dimensions (L x W x H)	129" x 75" x 80"	(3,260 x 1,900 x 2,030 mm)
Shipping Dimensions (L x W x H)	133" x 79" x 86"	



GTW-30 CNC

30" Heavy Duty CNC Big Bore Lathe

- + A2 - 11 Spindle w/ 6-5/8" Bore
- + 10 - 1,000 RPM Standard
- + A2 - 15 Spindle w/ 10" Bore, 18 - 600 RPM Optional
- + 2-Gear Ranges for Increased Cutting Torque
- + 8-Station Tool Turret – Any combination of ID/OD tools
- + Dual-Turrets (Front & Rear of cross slide) Available
- + Bore-Bar Holder Available for rear of cross slide
- + Available in 60", 80", 120" & 160" Center Distances
- + FANUC Oi-TF Control and FANUC Axis & Spindle Drives

Capacity & Dimensions

Swing over Bed	30"	(760 mm)
Turning Diameter (in front of cross slide w/ 8 station turret turning tool	22"	(560 mm)
Swing over Cross-Slide (turning diameter over cross-slide)	19"	(480 mm)
Center Height	15"	(380 mm)
Bed width of ways	18"	(460 mm)
Bed Casing Height	15.75"	(400 mm)

Spindle

Spindle Motor Horsepower (Fanuc 15 Kw - 18 Kw)	30 HP	(25 HP 30 min rated)
Spindle Speeds	10 - 1000 RPM	
Spindle Gear Ranges - 2 automatically selected gear ranges	L = 30 - 300 RPM	H = 10 - 1,000 RPMS
Spindle Bore (10" bore optional)	6.69"	(170 mm)
Spindle Nose (front & rear) / bearing	A2 - 11 / Taper Roller Bearings	
Spindle Torque for 6 5/8" bore - low gear / high gear	1,180 / 346 ft. lbs	(1,600 / 470 Nm)
Big-Bore Spindle Option - Bore Size	10" (255 mm)	A2 - 15 spindle
Big Bore Spindle Speeds	18 - 600 RPM in 2 ranges	
Big Bore Spindle Gear Ranges	Low 18 - 186 RPM	High 60-600 RPM
Big Bore Spindle Torque for 10" bore - low gear/high gear	1,475 / 442 ft. lbs	(2,000 / 600 Nm)

Axis

Rapid Traverse Feedrate X & Z	394 IPM	(10 m / min)
X-Axis Cross Slide Travel	19-5/8"	(500 mm)
Z-Axis Travel (listed with each bed length)		
X-Axis Ballscrew Diameter / Servo Motor Power	1.25" (32 mm)	2.0 HP (1.6 kw)
Z-Axis Ballscrew Diameter / Servo Motor Power	2" (50 mm)	4.0 HP (2.9 kw)
X-Axis Thrust	2,020 lbs	(920 kgf)
X-Axis Thrust	3,020 lbs	(1,370 kgf)
Cross Slide Dimensions W x L	39" x 10"	(1,000 mm x 258 mm)
Minimum input unit	0.0001"	(0.001 mm = 40 millionths)

Tool Turret

Hydraulic type / LS-200R	
Tool stations - any combination of ID/OD tooling / Index time	8 stations
OD Tooling (additional ID & OD tool holders in stock)	1" tools w/ 8 tool clamps provided
ID Tooling (40 mm when specified for metric users)	4 ID (1.5" bore) holders provided

Tailstock

<i>Air-Assisted Manual Positioning - Quill engraved with inch/metric quill graduations</i>		
Quill Diameter	4.92"	(125 mm)
Quill Stroke (manual quill advance, hydraulic optional)	7.87"	(200 mm)
Quill Taper	MT - 6	Morse Taper#6
Tailstock body set-over adjustment	±0.4"	(±1 mm)

Electrical / Hydraulic / Coolant

Power Requirements - FANUC 0i - TF control, motors & drives	30 kVA / 220 vac / ±5%
Hydraulic Motor Power	2 HP
Hydraulic Pressure	435 PSI / Mobil #32 oil
Coolant Pump	3/4 HP
<i>Machines need stable 220 Volts, 3 Phase - Please use appropriate transformers or voltage stabilizers</i>	



GTD-44-55 HK CNC

44"-55" Swing Heavy Duty Big Bore Lathes

- + 30-HP Spindle Motor (40-HP optional)
- + 6 – 500 RPM Spindle Speeds
- + 4 - Automatically Selected Gear Ranges for High Torque
- + A2 - 11 Spindle with a 6" Bore (9", 10", 12" & 15" Spindle Bores Optional)
- + Rear Spindle Chuck Mount available to support long workpieces
- + Boring Bar Holder Available for back of Cross Slide
- + Optional Tool Turrets Available
- + Dual Tool Turrets Available for front & back of Cross Slide

Capacity & Dimensions

Swing over Bed	44"	(1,120 mm)
Swing over Cross Slide	27.95"	(710 mm)
Distance between centers	78" - 236"	(2,000 - 6,000 mm)
Bed Width	32"	(810 mm)

Spindle

Spindle Motor Horsepower - up to 160" bed lengths	30 HP	(22 kw Fanuc) / (40 HP Optional)
Spindle Motor Horsepower - 200" + bed lights	40 HP	(30 kw)
Spindle Speeds	6 - 500 RPM	(6 - 292 with A2 - 15 & A2 - 20 spindles)
Spindle speed gear ranges - automatically selected	4-gear ranges	(infinitely variable speeds in each range)
Spindle Bore	6"	(152 mm) (Optional 9", 10", 12" & 15" available)
Spindle Nose	A2 - 11	(Optional A2 - 15 / A2 - 20 spindle nose)

Axis

Cross Slide Travel	23.62"	(600 mm) (varies with turret selected)
X-Axis Ballscrew / Servo Motor	40 mm	Pitch 5 mm / 4 HP (3 kw) Servo motor
Z-Axis Ballscrew / Servo Motor	63 mm	Pitch 10 mm / 5.5 HP (4 kw) Servo motor
X and Z Axis rapid feed rate	196" / min	(5,000 mm / min)
X and Z Axis cutting feed rate	118" / min	(3,000 mm / min)
Minimum input unit	0.0001"	(0.001 mm = 40 millionth of an inch)

Tool Turret

Turret Tool Stations	8 Station tool turret with any mix of ID and OD tools	
OD Tool Size	1.25" x 1.25"	(32 x 32 mm)
ID Tool Holder Bore (4 ID Toolholders included)	1.97"	(50 mm) (63 mm Optional)

Tailstock

<i>Engraved with inch/metric quill graduations</i>		
Quill Diameter	7.87"	(200 mm)
Quill Stroke	11.81"	(300 mm) with 2 speed quill gearing
Quill Taper	MT - 6	Morse Taper #6
Body Movement	Carried by saddle - manual lockdown	
Optional Hydraulic Tailstock available	Carried by saddle - hydraulic quill & bed lockdown	

Specifications

Cooling System	1.7 HP (1.275 kw) coolant pump
Electrical needs - Fanuc 0i-TF, Drives & Motors	220 vac / $\pm 5\%$ / 3 Phase / 60 Hz
Warranty - 1 Year Machine	2 Year FANUC control and drives
<i>Machines need stable 220 Volts, 3 Phase - Please use appropriate transformers or voltage stabilizers</i>	