



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 RPM
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>		