

GENTURN 52-GTS

6-Axis CNC Dual Gang-Tooled Lathe

Features

- + 52mm 2" Bar Capacity
- + Twin 15-HP 6,000 RPM Opposed Spindles
- + Dual Parallel Gang-Tooled Cross-Slides
- + Simultaneous Main & Sub-Spindle Machining
- + "C"-Axis on both spindles for Live Tooling Options
- + Faster than a Twin-Spindle Twin-Turret Lathe



Main & Sub Spindle

Spindle Motors: 11kw 30-minute rated	15 HP (Spindle Motor Chiller Included)
Maximum RPM	6,000 RPM with Spindle Orient
Spindle Bearing	5-Bearing Spindle, 3-Front Ball Bearings, 2-Rear A2-5
Spindle Nose	Traub A-52 (3J, 22J, 16C, S20 adapters available)
Collet Nose	2.086" (53mm)
Drawtube ID	2.047" (52mm)
Collet Capacity	3.464" (88mm)
Spindle Center Height to Cross-Slide	42.2" (1070mm)
Spindle Center Height to Floor	

Machine Axis

Axis Drives & Motors (1.0kw)	1.35-HP Mitsubishi Mel-Pro Motors and Drives
X-Axis Travel: Twin Cross-Slides	13" (330mm) on Both Gang Slides
Z-Axis Travel: Twin Opposed Spindles	10.63" (270mm) (on Both Main and Subspindle)
Axis Servo Motor Power	X-Axis 2.0 HP (1.5 kW), Z-Axis 1.5 HP (1.0 kW)
Rapid Travel Speed – X & Z	1,181 IPM (30m/minute)
Z-Axis Thrust	714 lbs. Thrust (8574 in/lbs.)
Minimum Input Unit	0.0001" (0.001mm = 40 millionths of a inch)

Tooling

OD Turning Tool Size	3/4" Standard
ID Turning Tool Size	20mm (3/4" Available)
Cross-Slide T-Slot dimensions	5-T-Slots on 32mm Centers (10mm Slot, 18mm Base)

Fluid Systems

Coolant Tank Capacity	52 Gallons (210L) with Coolant Flow Monitor
Coolant Pump	Dual 3/4-HP, 45-PSI Pumps (for Main and Subspindle)
Hydraulic System: (550psi)	10 gallons (45 liters) ISO VG32 (Mobil DTE-24)
Spindle Oil Cooler System	5.5 gallons (25 liters) ISO 10 (Mobil Velocite No. 6)
Way Lubrication Distribution (ISO-VG68)	.5 gallons (2-liters) Distributed at 3-6 cc / 15-Minute Cycle

Machine Dimentions

Length	118" (2,980 mm) + Chip Conveyor
Width	54" (1,356 mm) + 21" Coolant Tank
Height	78" (1,760 mm)
Net Weight	9,922 lbs. (4,500 kg)

Machine Requirements

Power Requirements	220vac ±5%, 3-Phase, 60-Hz, 63 Amps, 24Kva
Air Requirements	85-psi, 10-cfm (Parts Catcher, Parts Ejector, Air Blast)