

GENTURN 32-NCY

4-Axis CNC Mill/Turn CNC Lathe

Features

- + 36mm 1-3/8" Bar Capacity
- + 18-Tools with 7-Driven Tools Standard
- + "C" Axis and "Y" Axis with 19" Travel
- + 1,181 Inch per Minute Rapid Rates
- + Tool-Load Monitoring with Cutter Torque Sensing



Axis Travel

CNC Controlled Axis	4-Axis (X, Y, Z, C) with High-Performance C-axis
X-Axis Travel (Vertical Tool)	7.5" (190mm) Linear Ways
Y-Axis Travel (Cross Tool)	19.3" (490mm) Linear Ways – True Y-axis
Z-Axis Travel (Sliding Headstock)	6.5" (165mm) Linear Ways
C-Axis Travel (Rotational Axis)	360 degrees (360,000 Radial Positions)

Spindle

Spindle Bore	1.456" (37mm)
B&S#22 or Traub A-32 Collet Capacity	1.25" (32mm), 1-3/8" (36mm) Collet Adapter Available
Spindle Speed Range	100-6,000 RPM
Spindle Horsepower	10-HP 3,000 RPM Spindle Motor (2:1 Pulley Ratio)
Spindle Center Height	38" (965mm)
Rigid Tapping on Main Spindle	Yes
Spindle bearing (Ø110mm)	5-Ball Bearing Spindle, 3-Front & 2-Rear Bearings

Tooling System

Number and Size of Turning Stations	6 Tools of 1/2" or 12mm (5 stations of 5/8" Optional)
Number of Internal Static Tools	5 ID Tool Stations (25mm Bores) for Tool Bushings/Collets
I.D. Tool Bores (Round Shank)	25mm Bore for ER-20 Collet, Split or Solid Tool Bushings

Driven Tool System

Number of Cross Working Driven Tools	4-Cross Driven Tool Stations with ER20 Collet Holders
Number of End Working Live Tools	3-Axial Driven Tool Stations with ER20 Collet Holders
Size of Driven Tools (Round Shank)	ER-20 Collet Capacity (1/16" – 1/2") (1-13mm) Diameter
Rigid Tapping with Driven Tools	Included for Main Spindle and Driven Tools
Driven Tool Programmable Range	0-4,000 RPM – Step-Less Speed Range
Driven Tool HP	Radial 2.0-HP(1.5kw), Axial 1.0-HP (0.75kw)

Axis Drives

Rapid Travers Rate – X, Y, & Z axis	1,181 ipm (30m/minute)
Maximum Federate for Thread Cutting	236 ipm (6m/minute)
Minimum Programmable Input	0.0001" (0.001mm = 40 millionths of an inch)
C-Axis Resolution	0.001 degree (360,000 Radial Positions)
Brushless AC Servo Motor Drive	X = 2-HP (1.5kw), Y&Z = 1.5-HP (1.0kw)
Ballscrew Diameter	25mm Diameter - 10mm Pitch Double-Nut Ballscrews

System Requirements

Electrical Requirements	6 KVA – 42 amps @ 220 vac ±5% 3-Phase
Pneumatic Requirements	85 psi @ 10-cfm for Parts Catcher and Spindle Brake
Hydraulic System Capacity	10-gallon (40 liter) Hydraulic Tank, 500 psi Pressure
Coolant Pump Motor / Tank Capacity	3/4 HP w/Flow Sensor / 50-gallon Tank with Dual Filtration
Automatic Metered Lubrication system	3-6cc/15-minute (Adjustable Lubrication Flow Rate)

Machine Dimentions

Floor Space – L x W x H	86" x 74" x 76" (2,176 x 1,858 x 1919mm)
Machine Spindle Center Height	38" (965 mm)
Machine Net Weight	6,172 lbs. (2,800 kgs)