

Machine Specifications

Benchturn 7000 CNC Turning Centre

This machine features an intuitive software interface and conforms to industrial EIA, ISO, Fanuc and G&M code standards.

Specifications
Axis Travel
X Axis: max 75 mm / 2.96"
Z Axis: 250 mm / 9.84"
Work Area
Swing over bed: 200 mm / 7.87"
Swing over cross slide: 100 mm / 3.94"
Max dist. between centers: 360 mm / 14.17"
Bed width: 100 mm / 3.94"
Spindle
Motor Type: Brushless
Motor power: 500 W / 0.67 HP
Spindle speed: 100-3000 RPM
Spindle taper: MT3
Tooling
Automatic tool position: 4
Tool post angle: 360 deg
Tailstock taper: MT2
Tailstock travel: 50 mm / 1.97"
Accuracy
Position accuracy: 0.015 mm / 0.0006"
Repeatability: 0.010 mm / 0.0004"
Dimensions- Machine size
Width: 1000 mm / 39.38"
Depth: 780 mm / 30.75"
Height: 565 mm / 22.25"
Weight (approximate)
Machine weight: 170 Kg / 353 lbs
Shipping weight: 220 Kg / 485 lbs
Axis Drive Motors
Axis motor type: Stepper
X axis: 1.35 N-m / 192 oz-in
Z axis: 1.35 N-m / 192 oz-in
Rapid feed rate: 2000 mm/min 79 ipm
Feed rate: 500 mm/min 20 ipm
Air Supply*
*Only required for optional pneumatic accessories
620 kPa (90 psi)
1/4" NPT female connection provided
Control Software
EIA RS274-D standard G & M code compatible
Power Requirements- International
230 VAC (+5%/-10%) 50 Hz, 8A

BenchMill CNC Machining Centre

Specifications
Axis Travel
X Axis max: 260 mm / 10.24"
Y Axis max: 152 mm / 6.00"
Z Axis: 180 mm / 7.09"
Work Area
Table Size: 400×145 mm / 16"x 5.70"
No. of T-Slots: 3
T-slot size: 12 mm / 0.47"
Max. table load: 20 Kg / 44 lbs
Spindle
Motor Type: Brushless
Motor power: 1.34 hp, 1000 w
Spindle speed: 100– 5000 RPM
Spindle taper: ISO20
Max. tool diam.: 10 mm / 0.375"
Throat: 150 mm / 5.900"
Accuracy
Position accuracy: 0.038 mm / 0.0015"
Repeatability: 0.010 mm / 0.0004"
Dimensions-Machine size
Width: 1040 mm / 41"
Depth: 860 mm / 34"
Height: 940 mm / 37"
Weight (approximate)
Machine weight: 178 Kg / 393 lbs
Shipping weight: 218 Kg / 480 lbs
Axis Drive Motors
Axis motor type: Stepper
X axis: 1.35 N-m / 192 oz-in
Y axis: 1.35 N-m / 192 oz-in
Z axis: 2.2 N-m / 312 oz-in
Rapid feed rate: 2000 mm/min 79 ipm
Feed rate: 1000 mm/min 40 ipm
Air Supply Requirements
620 kPa (90 psi)
1/4" NPT female connection provided
Control Software
EIA RS274-D standard G & M code compatible
Power Requirements-International
230 VAC (+5%/-10%) 50 Hz, 8A

LMW Smarturn LT (Linear Tool CNC Lathe)

Specifications
Capacity
X Axis max: 105 mm
Z Axis: 320 mm
Swing over bed: 480 mm
Swing over carriage: 260 mm
Maximum turning length: 262 mm
Maximum turning diameter: 200 mm
Chuck size: 169 mm
Work Area
Table Size: 400×145 mm / 16"x 5.70"
No. of T-Slots: 3
T-slot size: 12 mm / 0.47"
Max. table load: 20 Kg / 44 lbs
Spindle
Spindle Nose: Flat $\phi 140$
Spindle inside taper: 1/20
Hole through spindle: 53 mm
Maximum bar capacity: 42 mm
Spindle speed range: 45-4500 rpm
Motor Power (Cont./15 min): 5.5 kW
Motor torque on spindle: 64 Nm
Spindle front bearing diameter: 80 mm
Maximum load including chuck: 200 kg
Tailstock
Quill dia/stroke: 65/80 mm
Quill taper: MT-4
Tailstock stroke: 185 mm
Thrust force (at 35 kg/cm ²): 515 kg
Accuracy
Position accuracy of X-axis: 0.015 mm
Position accuracy of Z-axis: 0.025 mm
Repeatability: 0.003 mm
Dimensions-Machine size
Length: 2450 mm
Breadth: 1640 mm
Height: 1620 mm
Weight (approximate)
Machine weight: 2300 Kg
Turret
Number of stations: 8
Tool shank size: 20 x 20 mm
Maximum boring bar diameter: 32 mm
Indexing: Bi-directional
Indexing time (per station): 0.9 sec

CNC System
Fanuc)i-Mate TC
Power Requirements-International
415 VAC ($\pm 10\%$), 3 Phase, 50 Hz, 15 kVA