



CENTROID™

M304

Engine Shop CNC Machining Center

The M304 is a general purpose CNC machining center available in 3 axis and 4 axis configurations.

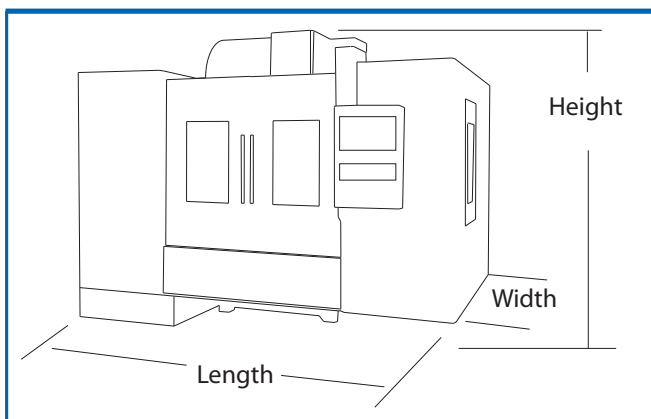
M304 Specifications

CNC Controller	
Table Size:	47.24" x 27.55" (1200mm x 700mm)
Longitudinal travel (X):	43.30" (1100mm)
Cross travel (Y):	27.55" (700mm)
Vertical travel (Z):	27.55" (700mm)
Optional 4th Axis (W)	120mm dia. or 250mm dia
Maximum table load:	1540lbs (700kg)
Spindle power:	20HP/ 15kW, (20 HP, 220V, 3 Phase)
Spindle taper:	CAT40 ANSI CAT-40 Short Pull Stud
Optional Spindle taper:	
Spindle speed:	10,000 RPM (Direct Drive Steel Bearings)
ATC	24 Position Swing Arm ATC (7kg/15.4lb. Tool Weight)
Rapid feed rates (X,Y,Z):	X,Y 1000 IPM, Z 800 IPM
Ball Screw Diameter/ Pitch X,Y,Z	40mm dia./12mm Pitch, Class:C3
Accuracy:	0.0005" (0.0127mm)
Repeatability:	0.0002" (0.0060mm)
Axis drive motors (X,Y,Z):	Yaskawa AC Brushless: X & Y, 2.9 kW, and Z 4.4 kW
Enclosure	Enclosure w/ Dual feed Chip Auger
Guide ways	Linear guideways, X, Y, and Z axis
Coolant pump:	66 Gallon Sump Capacity
Auto lubrication pump:	2.5 amp 2 liter reservoir
Way Covers	Telescoping metal way covers
Power requirement:	100 Amp 3 Phase, 208-240V
Air requirement:	100-125 PSI

M304 Optional Equipment

Block Machining Package
Coolant Through the Spindle (CTS)
Chip Conveyor
Mastercam
4 axis with 120mm Rotary Table
4 axis with 170mm Rotary Table
4 axis with 200mm Rotary Table
4 axis with 250mm Rotary Table
CNC Operator Training
CNC Programming
Engineering Services
On-site Service, Maintenance and Support

Block Machining Option



Machine Footprint:	M304
Length:	130" (3300 mm)
Width:	100" (2540 mm)
Max Height:	126" (3200 mm)
Weight:	
Machine:	16,500 lbs (7500 Kg)

Full Service Training and Warranty:

- Customized one-on-one training, tailored to each customers specific needs.
- One year standard warranty on parts, labor, and technical support. Machine in-shop setup included.
- Personalized service and support. Support available outside M-F 9-5
- One number to call for every component in the system. Direct support phone numbers.
- Internet enabled with on machine remote access trouble shooting & programming assistance.



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