

SPEC SHEET 1500MX CNC MILLING MACHINE

TORMACH.COM/1500MX



TRAVELS

X-Axis	19.7 in. (500 mm)
Y-Axis	13.8 in. (350 mm)
Z-Axis	14 in. (356 mm)
Spindle Nose to Table	3.7-17.7 in. (96-450 mm)

SPINDLE

Spindle Power (Continuous)	4 hp (3 kW)
Spindle Power (Peak)	6 hp (4.5 kW)
Spindle Speed	250-10,000 RPM
Spindle Taper	BT30
Thread Machining	Rigid Tapping

MAXIMUM FEED RATES

X- and Y-Axis	1,200 IPM (30.5 m/min)
Z-Axis	600 IPM (15.2 m/min)

POWER AND AIR

Power Required	Single-Phase 230 Vac, 50/60 Hz, 30A breaker*
Plug Type	NEMA L6-30P
Air Required	90-120 psi

MACHINE SPECIFICATIONS

Table Size	35 in. x 12.75 in. (0.9 m x 0.3 m)
Typical System Footprint (including coolant tank)	86 in. x 104 in. x 94 in. (2.2 m x 2.6 m x 2.4 m)
Typical System Weight	2800 lbs. (1270 kg)
Maximum Weight on Table	300 lbs. (136 kg)

PERFORMANCE

Testing	Ballbar testing on every machine
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KEY COMPONENTS

Frame	Bonded epoxy granite base and column castings
Ways	Linear rails
Motion System	EtherCAT control system

SHIPPING

Pallet Weight	Factory assembled: 3210 lbs. (1456 kg) Self assembled: 2650 lbs. (1202 kg)
Crate Dimensions	Factory assembled: 68 in. x 74 in. x 89 in. (1.7 m x 1.9 m x 2.3 m) Self assembled: 54 in. x 58 in. x 89 in. (1.4 m x 1.5 m x 2.3 m)

*Additional outlets may be required for optional accessories.

OPTIONAL ACCESSORIES

16-pocket automatic tool changer (ATC)
microARC 6 – 6 in. (150 mm) 4th axis rotary table
36-gallon flood coolant tank and manual sprayer
Automatic enclosure washdown system
Wireless probe and tool setter
MQL system
Through-spindle coolant (coming fall 2024)
Mist collector (coming fall 2024)
Chip conveyor system (under development)

MACHINE CONTROLLER



A Better User Experience

PathPilot HUB is a browser-based, full-featured PathPilot simulator, producing usable G-Code.

Powerful conversational programming: Use simple, fill-in-the-blank templates
Built for modern, high-speed machining (HSM) CAM packages (like Fusion 360, SprutCAM, and MasterCAM)
Expansive 80 GB storage for programs and setup data
Dedicated tool wear compensation and max RPM fields per tool
Improved trajectory planning/smoothing
Ballbar data is added to the compensation table to improve accuracy
Convenient file management over network or PathPilot HUB

WARRANTY

1-year warranty against defects in material and workmanship. Extended warranty available.