

CNC MILL FOR EDUCATION 1100M CNC MILLING MACHINE



TRAVELS	
X-Axis	18 in. (457 mm)
Y-Axis	11 in. (279 mm)
Z-Axis	16.25 in. (413 mm)
SPINDLE	
Spindle Power	2 hp (1.49 kW)
Maximum Speed	7,500 RPM
Transmission	Poly-V Belt
Spindle Taper	R8
Thread Machining	<ul style="list-style-type: none"> • Tension/Compression • Auto-Reversing • Thread Mill
MOTION	
X- and Y-Axis	110 IPM (2.79 m/min)
Z-Axis	90 IPM (2.29 m/min)
Axis Drivers (X,Y,Z)	High-Performance Polyphase Stepper Motors with Leadshine® Microstepping Drivers
POWER	
Power Required	Single-Phase 230 Vac, 50/60 Hz, 20A breaker
MACHINE SPECIFICATIONS	
Table Size	34 in. × 9.5 in. (863 mm × 241 mm)
Table Slots	5/8 in. (15.9 mm) (three slots)
Spindle Nose to Table Max Clearance	17 in. (432 mm)
Spindle Centerline to Machine Column	11 in. (279 mm)
Typical System Footprint	69 in. × 56.5 in. (1753 mm × 1435 mm)
Overall System Height	96 in. (2439 mm)
Typical System Weight	1600 lbs. (726 kg)
Maximum Weight on Table	500 lbs. (227 kg)
Coolant Capacity	12 gal. (45.4 L)
FRAME	
Frame and Table	Cast iron frame and table, with hand-scraped hydrodynamic ways and tapered adjustment gibs
Way Surfaces	Low-friction PTFE-filled, Acetyl-bonded sliding surface. Similar to Rulon® and Turcite®.



MACHINE CONTROLLER

POWERED BY
PathPilot®
A Better User Experience

PathPilot® HUB

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

User-friendly design

Support for up to 4-axis continuous machining

Intuitive conversational programming

Usable G-code Memory: Controller: 80 GB

Built-in Dropbox™ support for seamlessly transferring programs

ABOUT PathPilot HUB

PathPilot is a web-powered, browser-based, full version of PathPilot software interface for any machine in the Tormach CNC lineup.

Teachers use PathPilot HUB to replace expensive CNC simulators. Students can experiment and study before they ever touch the equipment.

Once students prove out their code virtually, they can sign into HUB on the physical Tormach machine and sync their files. Then, they run programs using their PathPilot HUB-generated G-code.

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TORMACH® 1100M CNC MILL PACKAGE COMPARISON



1100M EDUCATION PACKAGES	BASIC	INTERMEDIATE	ADVANCED
MACHINE			
1100M Mill with 1100M/MX Stand / Chip Tray / Lifting Bar Kit / Owner's Kit	✓	✓	✓
Oiling System Type	Manual Pump	Automatic Pump	Automatic Pump
Oiling Skimmer Kit			✓
ENCLOSURE			
1100M Enclosure Kit with Door Lock Switch Kit	✓	✓	✓
CONTROLLER			
PathPilot Operator Console / Jog Pendant Controller / Waterproof Mini Keyboard & Mouse		✓	✓
PathPilot Controller / Waterproof Mini Keyboard & Mouse / Wi-Fi Network Adapter / Jog Shuttle Controller / Standard LCD Monitor / Controller Arm	✓		
PathPilot Software Bootable USB Drive (Recovery Media)	✓	✓	✓
TOOL CHANGING			
Automatic 12-Tool Changer Kit for the 1100M/MX			✓
Power Drawbar Kit		✓	✓
Drawbar Wrench / Hammer	✓		
COOLANT SYSTEM			
Flood Coolant Kit		✓	✓
Portable Refractometer (Coolant Tester)			✓
MEASUREMENTS			
Passive Probe			✓
HAIMER 3D-Sensor New Generation Kit (metric) with Ball Replacement Tip		✓	
Essential Metalworking Gauge Kit	✓	✓	✓
Electronic Tool Setter			✓
1/2 in. (12 mm) Shank Edge Finder	✓		
3/8 in. (9 mm) Shank Edge Finder	✓		
WORKHOLDING			
5 in. (127 mm) CNC Vise / 5 in (127 mm) Parallel Set	✓	✓	✓
5 in. (127 mm) Aluminum Soft Jaw Set			✓
Clamp Kit for 5/8 in. T-Slots	✓	✓	✓
TOOL HOLDING			
TTST™ CNC Operator Set with Tormach Tool Assistant	✓	✓	✓
ER20 Collet Set (30 Pieces)		✓	✓
ER20 Collet Set (15 Pieces)	✓		
ER20 Collet Rack (Holds 36 Collets)			✓
TTST™ ER20 Collet Tap Holder		✓	✓
TOOLING			
End Mill Kit for Aluminum #1	✓	✓	✓
End Mill Kit for Steel #1		✓	✓
Compact TTST™ Tool Tightening Fixture	✓	✓	✓
1/16 inch - 1/2 inch Machine-Length Drill Set	✓	✓	✓
TTST™ MiniShear (0.75 in) (20 mm) with XDET 2.52 Insert (10-Pack)			✓
CONSUMABLES			
Machine Way Oil (1 Gal.)	✓	✓	✓
QualiChem XTREME CUT 251C Semi-Synthetic Coolant		✓	✓

*All package prices subject to change without notice.

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tormach.com | 1100M EDU Spec_Pkg Comparison (0821)

