

# CNC MILL FOR EDUCATION

## 1100MX 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	10,000 RPM
Transmission	Poly-V Belt
Spindle Taper	BT30
Thread Machining	<ul style="list-style-type: none"> <li>• Rigid Tapping</li> <li>• Tension/Compression</li> <li>• Thread Mill</li> </ul>
MOTION	
X- and Y-Axis	300 IPM (7.62 m/min)
Z-Axis	230 IPM (5.84 m/min)
Axis Drivers (X,Y,Z)	Servo Motors
POWER	
Power Required	Single-Phase 230 Vac, 50/60 Hz, 20A breaker
MACHINE SPECIFICATIONS	
Table Size	34 in. x 9.5 in. (863 mm x 241 mm)
Table Slots	5/8 in. (15.9 mm) (three slots)
Spindle Nose to Table Max Clearance	16.5 in. (419 mm)
Spindle Centerline to Machine Column	11 in. (279 mm)
Typical System Footprint	69 in. x 56.5 in. (1753 mm x 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	
<p>POWERED BY</p> <p>A Better User Experience</p> <p></p> <p>PathPilot HUB is a browser-based, full-featured PathPilot simulator, producing usable G-code.</p>	User-friendly design
	Support for up to 4-axis continuous machining
	Intuitive conversational programming
	Usable G-code Memory Controller: 80 GB Operator Console: 40 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® 1100MX<sup>®</sup> CNC MILL PACKAGE COMPARISON



1100MX EDUCATION PACKAGES	BASIC	ADVANCED
<b>MACHINE</b>		
1100MX Mill with 1100M/MX Stand / Chip Tray / Lifting Bar Kit / Owner's Kit	✓	✓
Oiling System Type	Automatic	Automatic
<b>ENCLOSURE</b>		
1100MX Enclosure Kit with Door Lock Switch Kit	✓	✓
<b>CONTROLLER</b>		
PathPilot Operator Console / Jog Pendant Controller / Waterproof Mini Keyboard & Mouse		✓
PathPilot Controller / Waterproof Mini Keyboard & Mouse / Wi-Fi Network Adapter / Jog Shuttle Controller / Touch Screen LCD Monitor / Controller Arm	✓	
PathPilot Software Bootable USB Drive (Recovery Media)	✓	✓
<b>TOOL CHANGING</b>		
Automatic 12-Tool Changer Kit for the 1100MX (BT30)		✓
<b>COOLANT SYSTEM</b>		
Flood Coolant Kit		✓
Oil Skimmer Kit		✓
Portable Refractometer (Coolant Tester)		✓
<b>MEASUREMENTS</b>		
Passive Probe (BT30) with Replacement Probe Tip		✓
HAIMER 3D-Sensor New Generation Kit (metric) with Ball Replacement Tip	✓	
Electronic Tool Setter		✓
Essential Metalworking Gauge Kit	✓	✓
<b>WORKHOLDING</b>		
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	✓	✓
<b>TOOL HOLDING</b>		
BT30 Operator's Set (Inch)	✓	✓
ER20 Collet Set (30 Pieces)		✓
ER20 Collet Rack (Holds 30 Collets)		✓
<b>TOOLING</b>		
End Mill Kit for Aluminum #1	✓	✓
End Mill Kit for Steel #1		✓
1/16 inch - 1/2 inch Machine-Length Drill Set	✓	✓
<b>CONSUMABLES</b>		
Machine Way Oil (1 Gal.)	✓	✓
QualiChem XTREME CUT 251C Semi-Synthetic Coolant		✓

\*All package prices subject to change without notice.

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