

CNC MILL FOR EDUCATION

770MX CNC MILLING MACHINE



TRAVELS

X-Axis	14 in. (356 mm)
Y-Axis	7.5 in. (191 mm)
Z-Axis	13.25 in. (337 mm)

SPINDLE

Spindle Power	1.5 hp (1.12 kW)
Maximum Speed	10,000 RPM
Transmission	Poly-V Belt
Spindle Taper	BT30
Thread Machining	<ul style="list-style-type: none"> • Rigid Tapping • Tension/Compression • Thread Mill

MOTION

X- and Y-Axis	300 IPM (7.62 m/min)
Z-Axis	250 IPM (6.35 m/min)
Axis Drivers (X,Y,Z)	Servo Motors

REQUIREMENTS

Power Required	Single-Phase 115 Vac, 50/60 Hz, 15A breaker
Compressed Air Requirement	95-120 PSI

MACHINE SPECIFICATIONS

Table Size	26 in. × 8 in. (660 mm × 203 mm)
Table Slots	5/8 in. (15.9 mm) (three slots)
Spindle Nose to Table Max Clearance	12.75 in. (324 mm)
Spindle Centerline to Machine Column	8.6 in. (218 mm)
Typical System Footprint	56 in. × 48.5 in. (1422 mm × 1232 mm)
Overall System Height	88 in. (2235 mm)
Typical System Weight	950 lbs. (431 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>PathPilot®</p> <p>A Better User Experience</p> <p>PathPilot® HUB</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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AΣT Labs

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TORMACH® 770MX[®] CNC MILL PACKAGE COMPARISON



770MX EDUCATION PACKAGES	BASIC	ADVANCED
PRICE*	\$23,701	\$32,029
MACHINE		
770MX Mill with 770M/MX Stand / Chip Tray / Lifting Bar Kit / Owner's Kit / Power Drawbar	✓	✓
Oiling System Type	Automatic	Automatic
ENCLOSURE		
770MX Enclosure Kit with Door Lock Switch Kit	✓	✓
CONTROLLER		
PathPilot Operator Console / Jog Pendant Controller / Waterproof Mini Keyboard & Mouse		✓
PathPilot Controller / Waterproof Mini Keyboard & Mouse / Jog Shuttle Controller / Touch Screen LCD Monitor / Controller Arm	✓	
PathPilot Software Bootable USB Drive (Recovery Media)	✓	✓
TOOL CHANGING		
Automatic 10-Tool Changer Kit for the 770MX (BT30)		✓
COOLANT SYSTEM		
Flood Coolant Kit		✓
Oil Skimmer Kit		✓
MEASUREMENTS		
Passive Probe (BT30)		✓
HAIMER 3D-Sensor New Generation Kit (metric) with Ball Replacement Tip	✓	
Essential Metalworking Gauge Kit	✓	✓
Electronic Tool Setter		✓
WORKHOLDING		
5 in. (127 mm) CNC Vise / 5 in (127 mm) Parallel Set	✓	✓
Clamp Kit for 5/8 in. T-Slots	✓	✓
TOOL HOLDING		
BT30 Operator's Kit (Inch)	✓	✓
TOOLING		
End Mill Kit for Aluminum #1	✓	✓
End Mill Kit for Steel #1		✓
1/16 inch - 1/2 inch Machine-Length Drill Set	✓	✓
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 | 770MX EDU Spec_Pkg Comparison (0921)

