

CNC MILL FOR EDUCATION 770M 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	R8
Thread Machining	<ul style="list-style-type: none"> • Tension/Compression • Auto-Reversing • Thread Mill
MOTION	
X- and Y-Axis	135 IPM (3.43 m/min)
Z-Axis	110 IPM (2.79 m/min)
Axis Drivers (X,Y,Z)	High-Performance Polyphase Stepper Motors with Leadshine® Microstepping Drivers
POWER	
Power Required	Single-Phase 115 Vac, 50/60 Hz, 15A breaker
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	13.25 in. (337 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>A Better User Experience</p>	User-friendly design
<p>PathPilot HUB is a browser-based, full-featured PathPilot simulator, producing usable G-code.</p>	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.

Allegheny Educational Systems, Inc.

320 E. 3rd Ave.
Tarentum, PA 15084

alleghenyedusys.com
info@alleghenyedusys.com
800.232.7600



CNC MILL FOR EDUCATION

TORMACH® 770M

CNC MILL PACKAGE COMPARISON



770M EDUCATION PACKAGES	BASIC	INTERMEDIATE	ADVANCED
MACHINE			
770M Mill with 770M/MX Stand / Chip Tray / Lifting Bar Kit / Owner's Kit	✓	✓	✓
Oiling System Type	Manual Pump	Automatic Pump	Automatic Pump
Oiling Skimmer Kit			✓
ENCLOSURE			
770M Enclosure Kit with Door Lock Switch Kit	✓	✓	✓
CONTROLLER			
PathPilot Controller / Waterproof Mini Keyboard & Mouse / Wi-Fi Network Adapter / Jog Shuttle Controller / Standard LCD Monitor / Controller Arm	✓		
PathPilot Operator Console / Jog Pendant Controller / Waterproof Mini Keyboard & Mouse		✓	✓
PathPilot Software Bootable USB Drive (Recovery Media)	✓	✓	✓
TOOL CHANGING			
Automatic 10-Tool Changer Kit for the 770M/MX			✓
Power Drawbar Kit		✓	✓
Drawbar Wrench / Hammer	✓		
COOLANT SYSTEM			
Flood Coolant Kit		✓	✓
MEASUREMENTS			
Passive Probe Kit			✓
HAIMER 3D-Sensor New Generation Kit (metric) with Ball Replacement Tip		✓	
Essential Metalworking Gauge Kit			✓
Electronic Tool Setter			✓
Basic 3-Piece Indicator Set	✓	✓	
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 (15 Pieces)		✓	
ER20 Collet Set (30 Pieces)			✓
ER20 Collet Rack (Holds 36 Collets)			✓
Modular Tension/Compression Tapping Head Kit		✓	✓
Manual Operator Set (Inch)	✓	✓	
TOOLING			
End Mill Kit for Aluminum #1	✓	✓	✓
End Mill Kit for Steel #1		✓	✓
1/16 inch - 1/2 inch Machine-Length Drill Set	✓	✓	✓
TTST™ MiniShear (0.75 in) (20 mm) with XDET 2.52 Insert (10-Pack)			✓
TTST™ Diamond Drag Engraver Kit		✓	✓
CONSUMABLES			
Machine Way Oil (1 Gal.)	✓	✓	✓
QualiChem XTREME CUT 251C Semi-Synthetic Coolant		✓	✓

*All package prices subject to change without notice.

©2021 Tormach®, Specifications subject to change without notice.
tormach.com | 770M EDU Spec_Pkg Comparison (0821)

