

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

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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AΣT Labs

CNC MILL FOR EDUCATION

TORMACH® 770M CNC MILL PACKAGE COMPARISON



| 770M EDUCATION PACKAGES | BASIC | INTERMEDIATE | ADVANCED |
|--|-----------------|-----------------|-----------------|
| PRICE* | \$15,495 | \$21,366 | \$28,375 |
| 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 / 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 | | | |
| TTSTM 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 | ✓ | ✓ | ✓ |
| TTSTM MiniShear (0.75 in) (20 mm) with XDET 2.52 Insert (10-Pack) | | | ✓ |
| TTSTM 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.

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tormach.com | 770M EDU Spec_Pkg Comparison [0921]

