

CNC LATHE FOR EDUCATION

8L CNC LATHE



TORMACH® 8L



SPINDLE

Spindle Power	1.5 hp (1.11 kW)
Spindle Speed	Two spindle ranges with speeds from 180 to 5,000 rpm
Through Spindle Bore	1 in. (26 mm)
Maximum Workpiece Length	10 in. (254 mm) with tailstock
Maximum Stock Over Bed	8 in. (200 mm)
Maximum Stock Over Carriage	4 in. (100 mm)
Spindle Nose	5C

TAILSTOCK

Taper	MT2
Diameter	0.9 in. (22 mm)
Travel	2.2 in. (55 mm)

TRAVELS

X-Axis	4.5 in. (114 mm)
Z-Axis	10 in. (330 mm) with tailstock

MOTION

X- and Z-Axis Maximum Feed Rate	150 IPM (3.8 m/min)
Axis Drivers (X,Z)	High-Performance Polyphase Stepper Motors with Leadshine® Microstepping Drivers

POWER

Power Requirements	Single-Phase 115 Vac, 50/60 Hz, 15A breaker
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MACHINE SPECIFICATIONS

Carriage Length × Width	7.25 in. × 4 in. (185 mm × 102 mm)
Machine Footprint	50 in. × 26 in. (1.2 m × 0.7 m)
Typical System Weight	838 lbs. (380 kg)
Maximum Swing Over Bed	8 in. (200 mm)
Maximum Swing Over Carriage	4 in. (100 mm)
Maximum System Height with Door Open	66 in. (1.6 m)
Overall System Height	52 in. (1.3 m)

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

Intuitive conversational programming

Features:

- Rigid Tapping
- Threading
- Constant Surface Speed

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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CNC LATHE PACKAGE COMPARISON



8L CNC LATHE EDUCATION PACKAGES		BASIC	ADVANCED
MACHINE			
8L CNC Lathe with Stand / Enclosure		✓	✓
8L CNC Lathe Owner's Kit	Quick Change Tool Post and Stud (Size 0XA)		
	Operator's Manual		
	All Required Cables	✓	✓
	Machine Lifting Hardware		
	USB 2.0 Hub		
	Coolant Tube		
SYSTEM CONTROL			
8L Lathe PathPilot Operator Console with Jog Pendant Controller / Waterproof Mini Keyboard / Waterproof Mouse			✓
PathPilot Controller with Controller Arm (Adjustable Swing Arm) and Vesa Mount / Standard LCD Monitor / Jog Shuttle Controller / Waterproof Mini Keyboard / Waterproof Mouse / Cable Kit / Wireless Network Adapter		✓	
PathPilot Software Bootable USB Drive (Recovery Media)		✓	✓
COOLANT SYSTEM			
8L Stand Coolant Kit			✓
WORKHOLDING			
4 in. Precision 3-Jaw Chuck (5C Mount)		✓	✓
4 in. Precision 4-Jaw Chuck (5C Mount)			✓
LATHE TOOL HOLDING			
0XA Tool Holder Kit for 8L		✓	✓
5C Round Collet Set (35 Pieces)		✓	✓
5C Collet Rack (Holds 30 Collets)			✓
Interchangeable Point Live Center Set			✓
TOOLING			
Deluxe Professional Lathe Tool Kit		✓	✓
3-Piece STFCR Boring Bar Set			✓
1/16 in. - 1/2 in. Machine Length Drill Set			✓
MEASUREMENT EQUIPMENT			
Basic 3-Piece Indicator Set		✓	✓
Haimer CENTRO Precision Centring Device			✓
5 mm Bent Probe Tip for Haimer CENTRO			
Digital Micrometer (0 in. - 1 in.) / Digital Caliper (0 in. - 6 in.)		✓	✓
CONSUMABLES			
Machine Way Oil (1 Gallon)		✓	✓

*All package prices subject to change without notice.

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tormach.com | 8L EDU Spec_Pkg Comparison (0821)



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