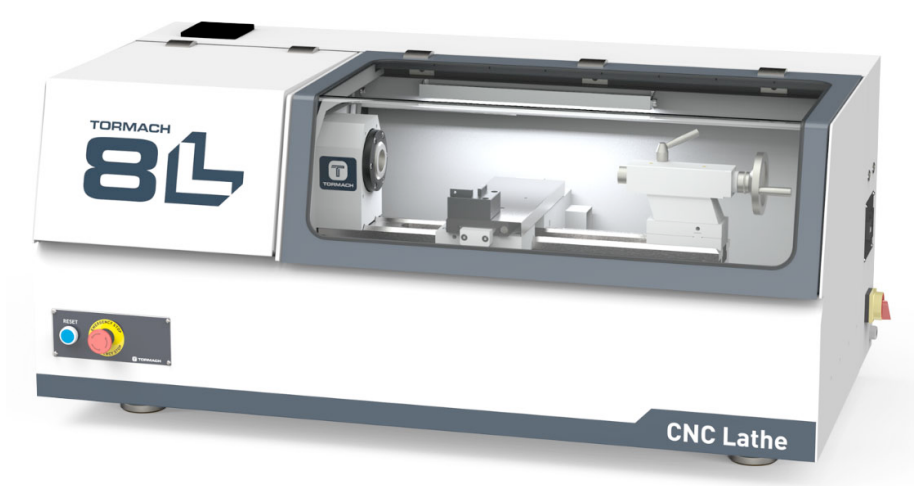


# Tormach 8L CNC Lathe



## References for Tormach 8L CNC lathe

- [Manufacturer's documentation](#)
- [Manual](#)
- [Path Pilot Controller](#)
- Lubrication Requirements (page 56 of the [manual](#))
- Parts List (starts on page 75 of the [manual](#))

## Specifications

MACHINE SPECIFICATIONS		SPINDLE	
Carriage Length x Width	7.25 in x 4 in	Spindle Power	1.5 hp
Machine Footprint	50 in x 26 in	Spindle Speed	Two spindle ranges with speeds from 180 to 5,000 rpm
Typical System Weight incl. optional stand	838 lbs	Through Spindle Bore	1 in
Maximum Swing Over Bed	8 in	Maximum Workpiece Length	10 in with tailstock
Maximum Swing Over Carriage	4 in	Maximum Stock Over Bed	8 in
Max System Height with Door Open (mounted on optional stand)	66 in	Maximum Stock Over Carriage	4 in
Overall System Height	52 in	Spindle Nose	5C
TAILSTOCK		MOTION	
Taper	MT2	X- and Z- Axis Maximum Feed Rate	150 ipm
Diameter	0.9 in	Axis Drivers (X, Z)	High-Performance Polyphase Stepper Motors
Travel	2.2 in		with Leadshine Microstepping Drivers
TRAVELS		POWER	
X-Axis	4.5 in	Power Requirements	Single phase 115 VAc, 50/60 Hz, 15A breaker
Z-Axis	10 in with tailstock		

## Accessories

- 4" four jaw chuck with 5C mount
- OXA quick change tool post and tool holders
- Post mount Knurling tool.

## Getting Started

### Learning

To get started learning:

- Use a virtual instance of the PathPilot controller software
  - Create an account on [PathPilot Hub](#)
  - Connect to a virtual instance to begin learning to control a virtual lathe

### DRO Settings

This is taken from the Facing section of the guide:

Tool	Initial X DRO Field	Final X	Description
Rear	Positive	Positive	The tool works on the positive X side of the spindle center (the side away from you)
Front	Negative	Negative	The tool works on the negative X side of the spindle center (the side closest to you)

## Optional Post-Processor

If you do not choose to use the PathPilot conversational programming, you can CAM your part and post-process. The Fusion 360 post-processor for the 8L is on the Machine Shop committee drive, in the Training folder. You can also look for updates [at this link](#), and search for 8L.

*Note that the 15L post-processor will not work because the 8L post has the default X axis direction reversed from that of the 15L*

<b>Name</b>	Tormach 8L CNC Lathe
<b>Date Acquired</b>	
<b>Training</b>	Training Required
<b>Manufacturer</b>	Tormach
<b>Description</b>	A small CNC lathe suitable for soft metals and plastics
<b>Volunteers</b>	

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