

COMPARISON DOCUMENT

8L CNC LATHE / 15L SLANT-PRO CNC LATHE / RAPIDTURN™ CNC CHUCKER LATHE ACCESSORY

	8L			15L <small>Slant-PRO</small> CNC LATHE		
PRECONFIGURED PACKAGES	8L ENTRY PACKAGE	8L DELUXE PACKAGE	8L PREMIUM PACKAGE	15L STARTER PACKAGE	15L TURRET PACKAGE	15L AUTOMATION PACKAGE
MACHINE						
Base Machine		8L CNC Lathe		15L Slant-Pro™ CNC Lathe (Includes Lifting Kit)		
Lathe Stand		✓	✓	✓	✓	✓
Lathe Enclosure		Pre-Installed		✓	✓	✓
Manual Oiler Kit		Pre-Installed		✓	✓	✓
Automatic Oiler Kit Available		N/A		✓	✓	✓
Light Kit		Pre-Installed		Included with Tormach 15L Slant-PRO Package		
CONTROLLER						
PathPilot Operator Console			✓			
PathPilot Controller	✓	✓		✓	✓	✓
Controller Arm (Adjustable Swing Arm)		✓	✓	✓	✓	✓
Monitor & Controller Arm	Touchscreen Monitor				✓	✓
	Standard LCD Monitor		✓	✓		
Waterproof Mini Keyboard / Waterproof Mouse/ Cable Kit / Wireless (Wi-Fi) Network Adapter		✓	✓	✓	✓	✓
Jog Shuttle Controller		✓		✓	✓	✓
Jog Pendant			✓			
COOLANT SYSTEM						
Machine-Mounted Coolant Kit			✓	✓	✓	✓
MEASUREMENTS AND OFFSETS						
Basic 3-Piece Indicator Set				✓	✓	✓
WORKHOLDING						
3-Jaw Reversible 6 in. Lathe Chuck (D1-Type Direct Mount)				✓	✓	✓
5C Round Collet Set (18 Pieces)						✓
LATHE TOOL HOLDING						
8-Station Turret Kit and 10-Pack Coolant Nozzles					✓	✓
Right-Handed Heavy-Duty Gang Block				✓		✓
Short Gang Plate						
0XA Tool Holder Kit for 8L		✓	✓			
Quick Change Tool Post Kit	✓	✓	✓	✓		
TOOLING						
Deluxe Lathe Tool Starter Kit					✓	✓
Lathe Tool Starter Kit #1				✓		
Deluxe Professional Lathe Tool Kit		✓	✓			
OD Threading Tool: CER075K16				✓		
ER20 Collet Chuck and Collet Set (15 Pieces)				✓		
1/16 In. - 1/2 In. Jobber Length Drill Set (64ths)				✓		
Gang Tool Starter Kit						
ACCESSORIES & UPGRADES						
California Air Tools 4610S Air Compressor						✓
Automatic Collet Closer	N/A	N/A	N/A			✓
Filter-Regulator-Lubricator	N/A	N/A	N/A			
CONSUMABLES						
Machine Way Oil (1 Gallon)				✓	✓	✓
Full Synthetic Coolant (1 Gallon)			✓	✓	✓	✓
STOCK ADVANCEMENT						
EZ-Puller Self-Adjusting Bar Puller	N/A	N/A	N/A			✓

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MACHINE SPECIFICATIONS	8L	15L Slant PRO CNC LATHE
SPINDLE		
Spindle Power	1.5 hp (1.11 kW)	3 hp (2.224 kW)
Spindle Speed Ranges	Low: 180 to 2,500 rpm High: 350 to 5,000 rpm	Two Ranges w/Speeds from 100 to 3,500 rpm
Through Spindle Bore	1 in. (25.4 mm)	1.53 (39 mm) with 5C Insert Removed
Maximum Distance Between Centers	10 in. (254 mm) with Tailstock	N/A
Spindle Nose	5C	D1-4 Camlock Mount or 5C Insert
TAILSTOCK		
Taper	MT2	N/A
Diameter	0.9 in. (22 mm)	N/A
Travel	2.2 in. (55 mm)	N/A
TRAVELS AND MOTION		
X-Axis	4.5 in. (114 mm)	10 in. (254 mm)
Z-Axis	10 in. (254 mm)	12 in. (305 mm)
X- and Z-Axis Maximum Feed Rate	150 IPM (3.8 m/min)	100 IPM (2.5 m/min)
Axis Drivers (X, Z)	High-Performance Polyphase Stepper Motors w/Leadshine® Microstepping Drivers	High-Performance Polyphase Stepper Motors w/Leadshine® Microstepping Drivers
POWER		
Power Requirements (All are Single-Phase and 50/60 Hz)	115 Vac, 15A Breaker	Primary: 230 Vac, 20A Breaker Secondary: 115 Vac, 20A Breaker



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Carriage Length x Width	7.25 in. x 4 in. (185 mm x 102 mm)	23.8 in. x 6.1 in. (605 mm x 155mm)
Machine Footprint	50 in. x 26 in. (1.2 m x 0.7 m)	72 in. x 42 in. (1.8 m x 1.1 m)
Typical System Weight	838 lbs. (380 kg)	1,800 lbs. (816 kg)
Maximum Swing Over Bed	8 in. (200 mm)	15 in. (381 mm)
Maximum Swing Over Carriage	4 in. (100 mm)	6.2 in. (158 mm)
Maximum System Height with Door Open	66 in. (1.6 m)	68 in. (1.7 m)
Overall System Height	52 in. (1.3 m)	68 in. (1.7 m)
ADDITIONAL OPTIONAL ACCESSORIES		
		<ul style="list-style-type: none"> • 8-Station Turret • Gang Tooling System • Automatic 5C Collet Closer

RAPIDTURN™

Turn your Tormach 770 PCNC/M/MX or 1100 PCNC/M/MX CNC mill into a 5C Chucker Lathe.

RapidTurn is easy to set up, works natively with PathPilot, and converts your CNC mill to a CNC lathe.



RapidTurn

MACHINE SPECIFICATIONS

KEY DIMENSIONS

Swing-Over Base Plate	6 in. (152 mm)
Weight	60 lbs. (27.2 kg)
Footprint (W x L x H)	16.25" x 13.75" x 9.5" (415 mm x 350 mm x 240 mm)

SPINDLE

Spindle horsepower	1 hp continuous if used with CNC 770/1100 1.5 hp continuous if used with 770M/MX and 1100M/MX	
Spindle Design	Native 5C Taper	
Spindle Speed Range (Belt Driven)	Low Belt	180 - 2,000 rpm
	High Belt	300 - 3,500 rpm
Tool Holding	Spindle nose clamp with quick change tool post	

TEMPERATURE

Operating Range	55° to 100°F (12° to 38°C)
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ELECTRICAL

Connections	Spindle motor connects to mill's VFD using Quick Change Motor Connection Kit (PN 35167, Included)
	Spindle index sensor connects to mill's accessory port