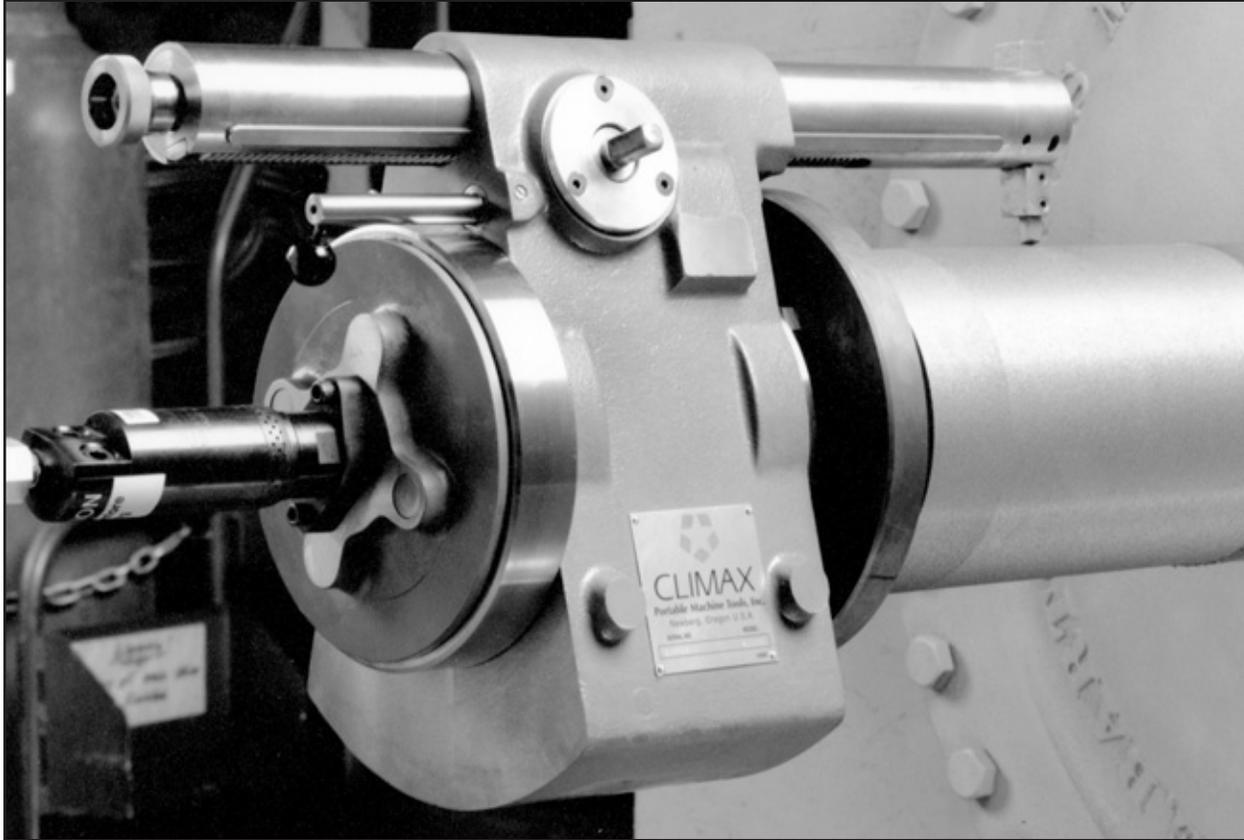


PL3000 PORTABLE LATHE

FEATURES • SETUP & OPERATION
COMPONENTS & ACCESSORIES • TECHNICAL DATA

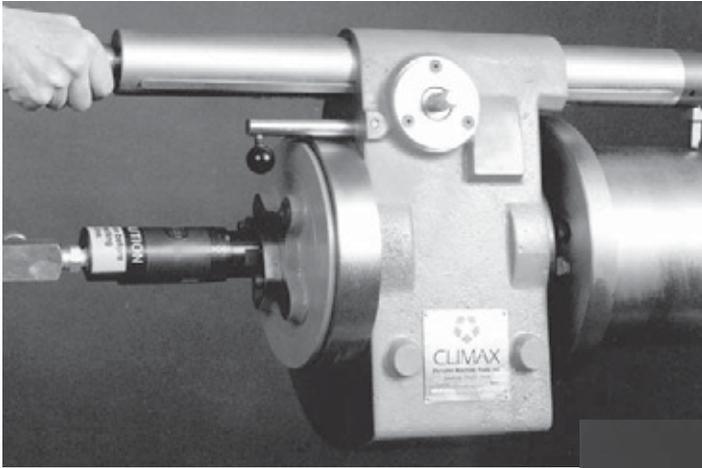


- Design Features
- Setup & Operation
- Components & Accessories
- Technical Data



CLIMAX[®]
Portable Machine Tools, Inc.

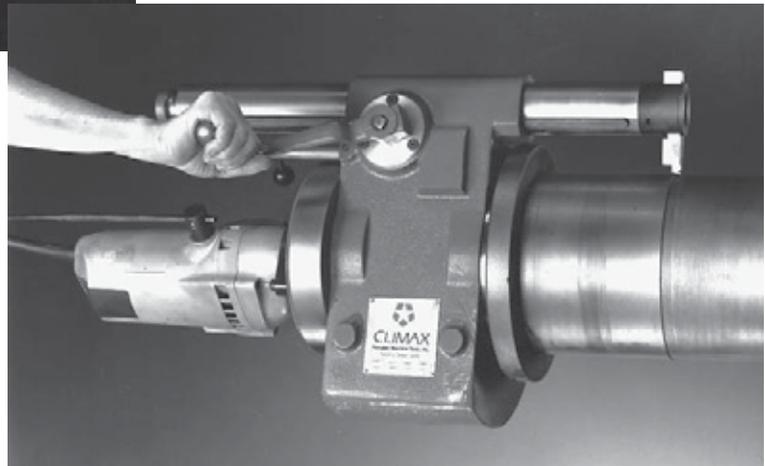
Bringing the solution to you.



Eliminates most of the dismantling needed to do a simple metalcutting repair job

Pneumatic ▲

▶ Electric



- **SHAFT END MOUNTING** All you need to do is remove the gear or bearing to expose the end of the shaft.
- **STANDARD TOOL REACH** from end of shaft is 16 inches (406.4 mm), and up to 22 inches (558 mm) with optional turning bar extension.
- **SHAFT TURNING DIAMETER** Turn shafts from 4 to 11.25 inches (101.6 to 285.7 mm). This machine works within a 16.75 inch (425.4 mm) diameter space around the shaft and 36 inches (914 mm) from the end of the shaft.
- **INTERCHANGEABLE DRIVE MOTORS** A .66 hp (.49 kW) electric and a 1.22 hp (.91 kW) pneumatic motor is available.
- **AUTOMATIC AXIAL FEED** is variable from .003 to .011 inches/rev (.08 to .28 mm/rev) in 7 increments.
- **QUICK SETUP** An experienced operator can set up the PL3000 in less than an hour. Drill and tap four mounting holes on the end of the shaft to attach the tapered mounting flange. Adjusting screws allow accurate alignment even if the shaft face is no longer square. Slip the body of the machine onto the flange taper, place and lock the motor mounting flange into the mounting flange slot with one bolt. Attach the pneumatic motor assembly and in a few minutes the Model PL3000 is ready to go.

The Climax Model PL3000 Portable Lathe is a precision machine tool designed to re-turn large shafts and roll journals by bolting directly to the end of the work piece and rotating around the shaft.

The rugged PL3000 is engineered for dependable accuracy, day in and day out. Heavy solid steel turning bar and counterbalanced body provide smooth turning and minimum chatter, even with the turning bar at maximum reach. The motor and planetary ring gear drive provide enough torque to remove up to .125 inch of metal so you can get the job done fast.

The Model PL3000 has completed some tough, “impossible” on-site turning jobs in less than two hours, including time for removing and replacing gears or bearings.

Many hours or days of lost production time get spent dismantling a machine to remove the shaft, transporting it to a lathe, and then reassembling everything. On a job like this, the downtime savings with the Climax portable lathe could pay for the machine!

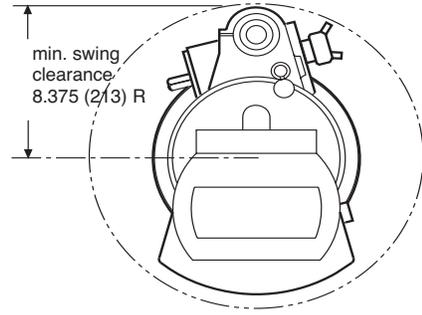
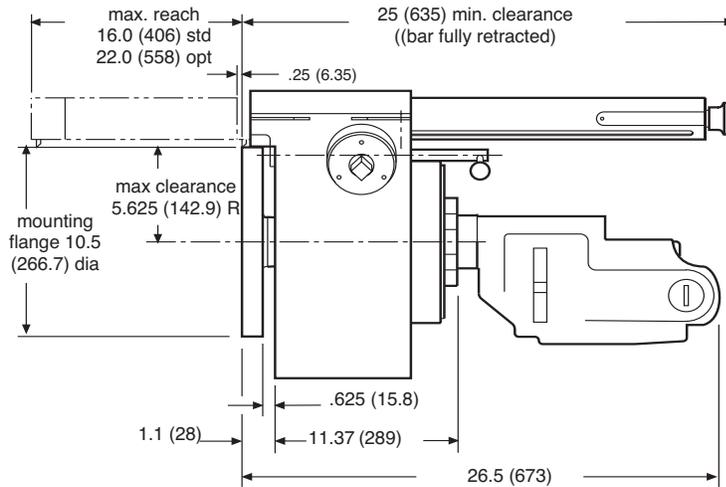
PL3000 Dimensions

Specifications in inches (mm)

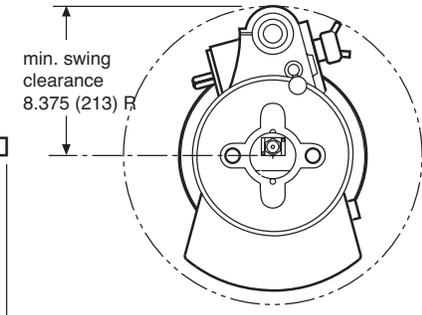
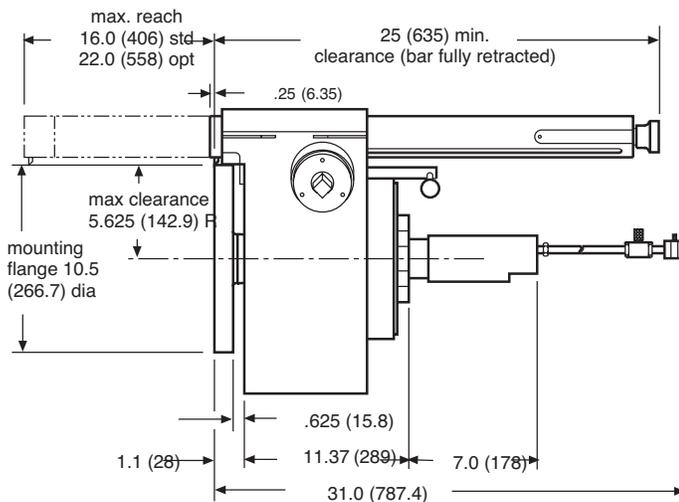
Overall length, electric		
std. bar fully retracted.....	26.5"	673.1 mm
std. bar fully extended.....	42.5"	1079.5 mm
Overall length, pneumatic		
std. bar fully retracted.....	31.0"	787.4 mm
std. bar fully extended.....	47.0"	1193.8 mm
Overall width.....	10.5"	266.7 mm
Overall height.....	16"	406.4 mm
Turning reach (from spindle face)...		
standard bar	16"	406.4 mm
standard bar w/ opt. extension	22"	558.8 mm
Shaft dia., max.	11.25"	285.7 mm
Shaft dia., min.		
w/ standard tool holder (18368)	8"	203.2 mm
w/ optional tool holder (10644)	6"	152.4 mm
w/ optional tool holder (10643)	4"	101.6 mm
Swing clearance, min. radius.....	8.375"	212.7 mm
Axial feed, automatic.....	.003-.011"/rev	.08-.28 mm/rev in 7 increments
Turning bar diameter	2.31"	58.7 mm

Cutter.....	3/8" (10mm) HSS lathe tool bit	
Tool depth adjustment	Manual, 1.125" (28.6 mm) total radial travel in three .375" (9.5 mm) increments	
Electric motor:		
115V, 60 Hz continuous	.66 hp	.49 kW
intermittent	1.82 hp	1.36 kW
Bar torque: 98 ft•lbs max. (135 N•m) at 33 rpm bar speed; Bar free speed: 38 rpm max; Gear ratio: 8:1; variable speed control with settings 20-38 rpm		
230V, 50Hz continuous	.66 hp	.49 kW
intermittent	1.82 hp	1.36 kW
Bar torque: 98 ft•lbs max. (135 N•m) at 33 rpm bar speed; Bar free speed: 38 rpm max; Gear ratio: 8:1; variable speed control with settings 20-38 rpm		
Pneumatic motor.....	1.22 hp	.91 kW
(non-reversing, hp rated @ 265 rpm) Torque: 24.2 ft•lb (32.9 N•m) at full power; Bar speed at full power: 33 rpm; Gear ratio: 8:1; infinitely variable speed control with needle valve; Air flow required: 90 psi @ 30 ft ³ /min (620 kPa @ .85 m ³ /min);		
Net wt:	200 lb	91 kg
Shipping wt.....	261 lb	119 kg

Specifications in inches (mm)
Specifications subject to change without notice. For precision dimensions consult your factory representative.



Electric



Pneumatic

