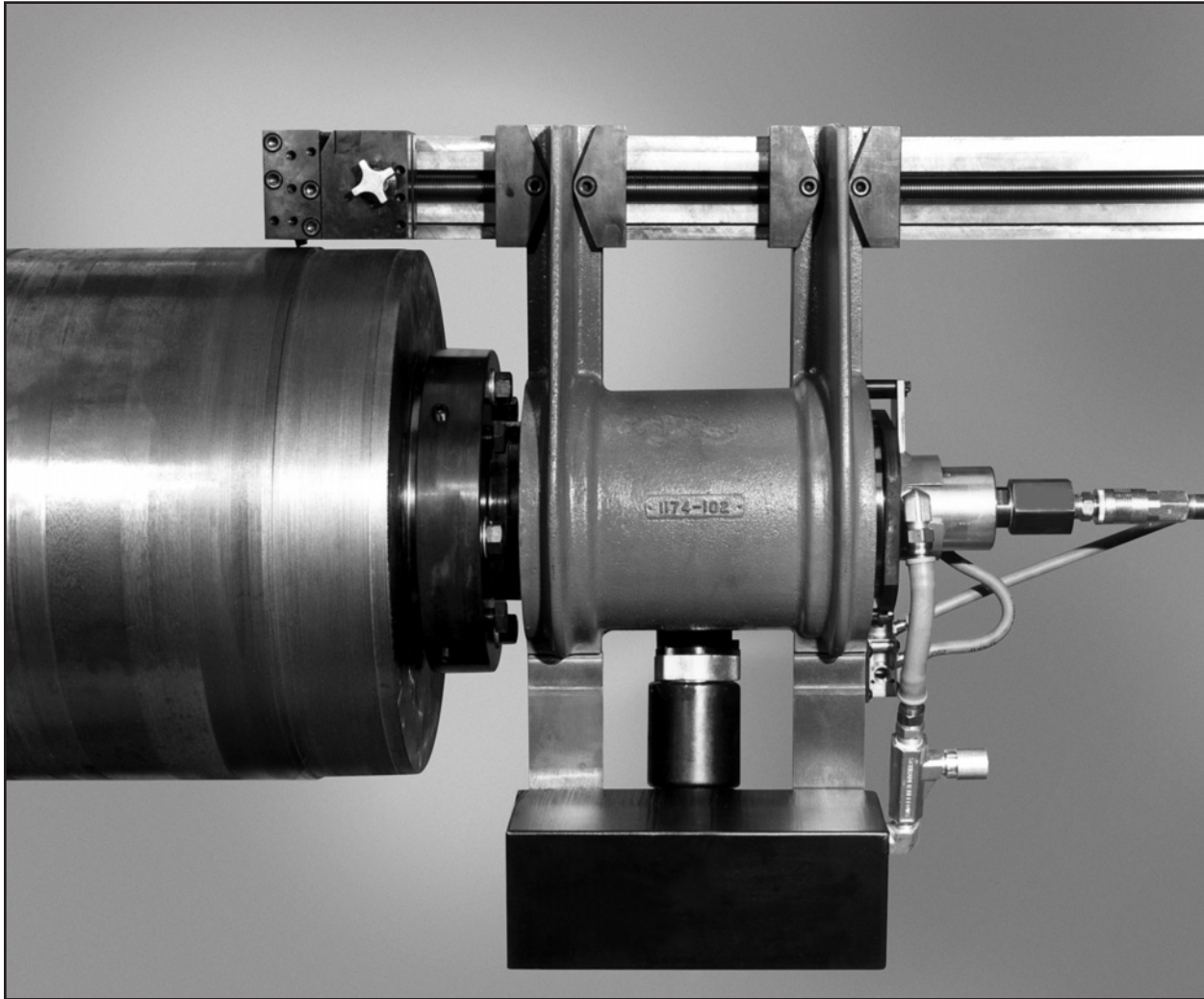


PL4000 PORTABLE LATHE

FEATURES • SETUP & OPERATION
COMPONENTS & ACCESSORIES • TECHNICAL DATA



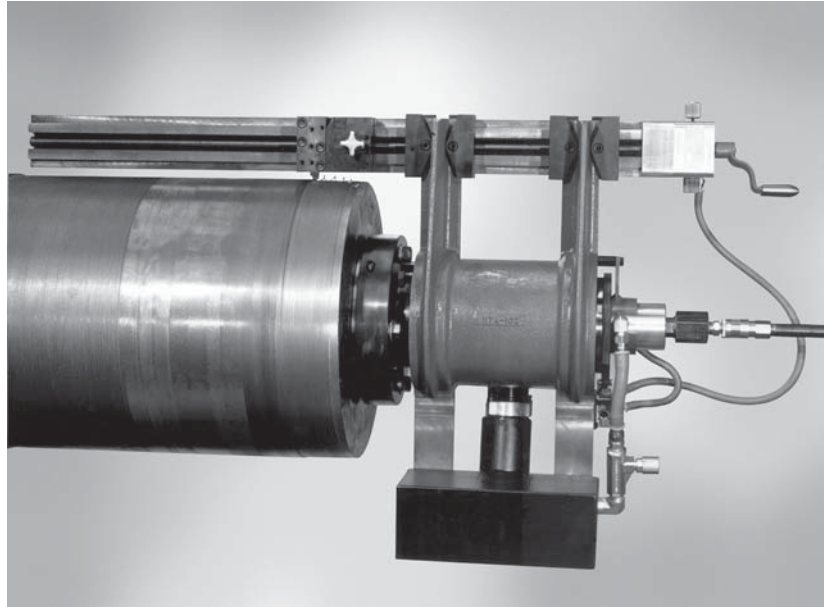
- Design Features
- Setup & Operation
- Components & Accessories
- Technical Data



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Re-turn Worn Shafts and Roll Journals On Site In Hours.

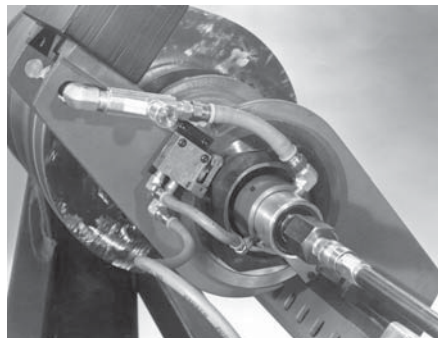


The PL4000 Portable Lathe bolts directly to the end of the work piece and enables the operator to cut grooves, chamfers, or re-turn straight and tapered shafts with precision.

The Portable Lathe mounts to the shaft via a mounting plate which is drilled and counterbored to match the shaft. The lathe spindle then mounts to the plate on four studs. The turning bar mounts to arms on the main body and can be easily adjusted for reach and turning radius.

Parallelism between the bar and the spindle is set by adjusting two tool arm anchors until they measure equidistant from measuring flats on the main body. Parallelism with the work piece is set using jacking screws. Set screws provide centering.

Typical set-up time is 30 minutes (once the mounting plate is prepared).



A simple cam and valve arrangement activates the pneumatic tool feed mechanism.

Other Important Features

Low Profile:

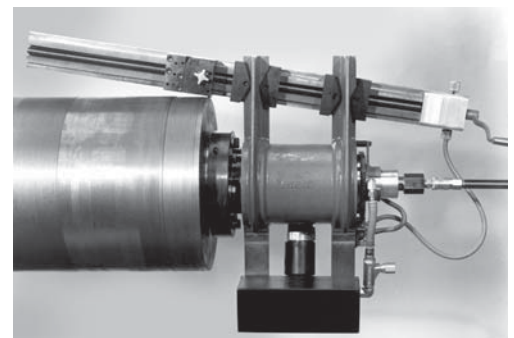
Requires only 13 inches (330 mm) of radial turning clearance so you can work in tight spots.

Versatile Cutting Range:

Performs all turning operations along 24.75 inches (628 mm) of shaft. Cuts tapers up to 6°.

Power and Precision:

1.5 hp (1.12 kW) pneumatic motor with worm gear provides 450 ft/lbs (612 N•m) of torque. Feed rate is adjustable from 0 to .020 inches (0 to .5 mm) per revolution. Machine rotates up to 21 rpm.



The turning bar may be set at an angle for cutting tapers up to 6°.

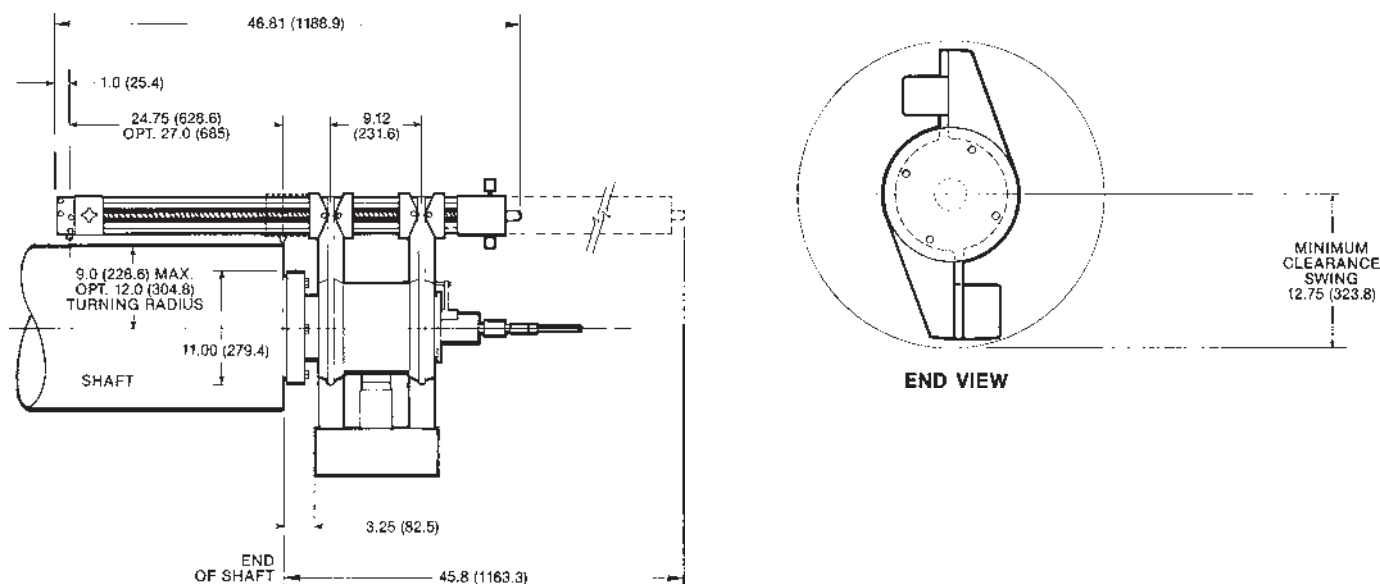
Specifications

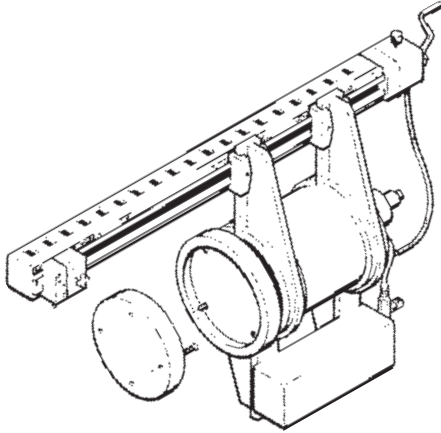
Inches (mm)

Specifications subject to change without notice. For precision dimensions consult your factory representative.

	SAE	Metric		SAE	Metric
Shaft diameter:			Max. torque		
Min.	8"	203 mm	at tool head:	450 ft·lb	612 N·m
Max. (std.)	18"	457 mm	Air motor:	1.55 hp	1.16 kW
Max. (with opt. ext.)	24"	609 mm	Rotational speed –		
			at max. rated hp	520 rpm	520 rpm
			at no-load	1100 rpm	1100 rpm
Turning radius:			Air consumption:		
Min.	4"	102 mm	at max. rated hp	90 psi at	620 kPa
Max. (std.)	9"	228 mm		48 ft ³ /min	at 136
Max. (with opt. ext.)	12"	324 mm			cm ³ /min
Cutting reach:			Machine rotational speed:		
Min. (std.)	0"	0 mm	at max. rated hp	21 rpm	21 rpm
Max. (std.)	24.75"	628 mm	at no-load	30 rpm	30 rpm
Min. (with opt. ext.)	3.25"	83 mm	Cutter:		
Max. (with opt. ext.)	27.0"	685 mm		1/2" square lathe tool	
Max taper:			Weight (standard machine):		
	2.5"/ft	210 mm/m	Net	413 lb	188 kg
	on dia.	on dia.	Ship	550 lb	250 kg
Vertical tool travel, total:	1.5"	38 mm			
Tool feed:	0-.020"/	0-.5 mm/			
	rev.	rev.			
	reversible	reversible			

Inches (mm)



	PART NO. <hr/> 12965 12965 CE	DESCRIPTION Model PL4000 Portable Lathe, standard machine Standard portable lathe, complete and ready to operate. Machines shafts 8 to 18 inches (203 to 457 mm) in diameter. Tool reach is 0 to 24.75 inches (0 to 628 mm). Automatic pneumatic tool feed is reversible, variable 0 to .020 inches/rev. (0 to .508 mm/rev.). Machine includes: main body assembly with blank mounting plate, standard turning bar and counterweight, 1.55 hp (1.16 kW) air motor, pneumatic feed box, tool head, one 1/2" square HSS lathe tool, hand crank, dial indicator, abrasive belt holder, wrench set, and instructions.
	<hr/> 17877 17877 CE	Model PL4000 Portable Lathe, large capacity machine Machines shafts 8 to 24.0 inches (203 to 609 mm) in diameter. Tool reach is 3.25 to 27 inches (83 to 685 mm). Automatic pneumatic tool feed is reversible, variable 0 to .020 inches/rev. (0 to .508 mm/rev.). Machine includes: main body assembly with blank mounting plate, standard turning bar and counterweight, tool head and turning bar extensions, 1.55 hp (1.16 kW) air motor, pneumatic feed box, tool head, one 1/2" square HSS lathe tool, hand crank, dial indicator, abrasive belt holder, wrench set, and instructions.
	15306	Tool head and bar extension kit Tool head extension kit enables the standard tool head to machine shafts up to 24 inches (609 mm) in diameter. Includes extension, tool head stabilizer plate, and mounting hardware. Turning bar extension increases standard tool reach to 27 inches (685 mm). Includes bar extension, counterweight addition, and mounting hardware. This kit is included with the Large Capacity Portable Lathe (PN 17877).

PL4-.1M1104

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