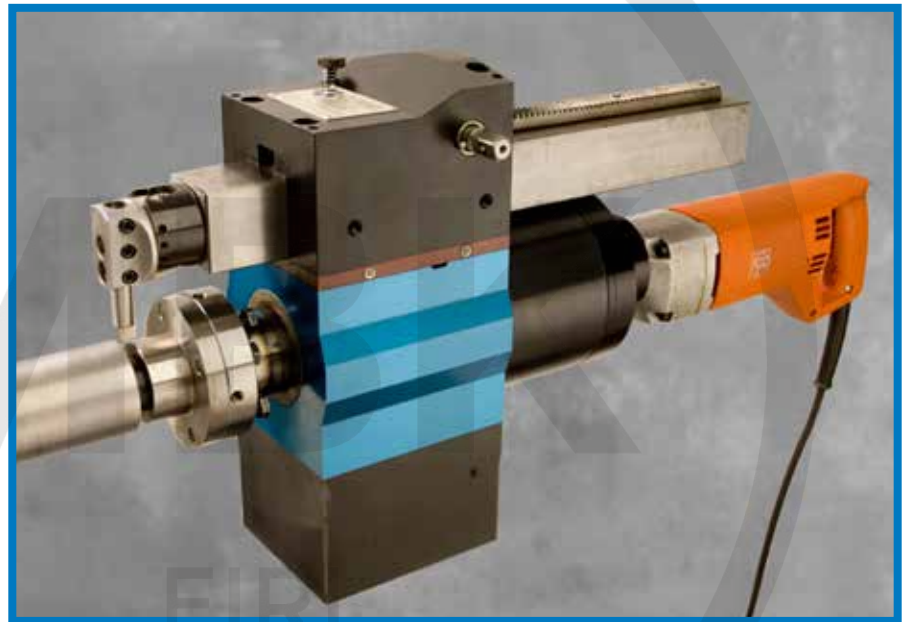


Compact, rugged lathe for on-site re-turning of small shafts or journals

A compact, rugged portable lathe for on-site re-turning of small shafts or journals, the PL2000 Portable Lathe mounts on the end of the shaft.

Compact, powerful, precise.

- The 0.6 Hp (0.45 kW) electric motor and 5.5:1 gear reduction provides plenty of torque. A 1.22 Hp (0.91 kW) pneumatic motor is also available.
- Tool reach up to 12.5 inches (317.5 mm) from end of shaft.
- Criterion style tool head provides accurate depth adjustments in 0.001 inch (0.0254 mm) increments.
- Turns shafts from 1.5 - 9.0 inches (38.1 - 228.6 mm) in diameter. This compact machine is able to work within a 14 inch (355.6 mm) diameter swing clearance at the end of the shaft.
- Automatic axial feed is infinitely variable from 0 - 0.35 inches/rev. (0 - 8.89 mm/rev.)
- Adjustable tool head and round tool bits allow quick tool positioning for accurate turning. .



Quick and easy setup

- Mounts on the end of the shaft. Simply remove the gear or bearing to expose the end of the shaft.
- The PL2000 can be set up by an experienced operator in less than an hour. Drill and tap four mounting holes on the end of the shaft to attach the mounting flange. (Shafts less than 3.75 inches (95.3 mm) in diameter only need one hole drilled and tapped for the single bolt mounting adapter.) The body of the machine is attached, centered, and aligned in a few minutes.

447-3377

oficina@vendo.com.pe

SPECIFICATIONS

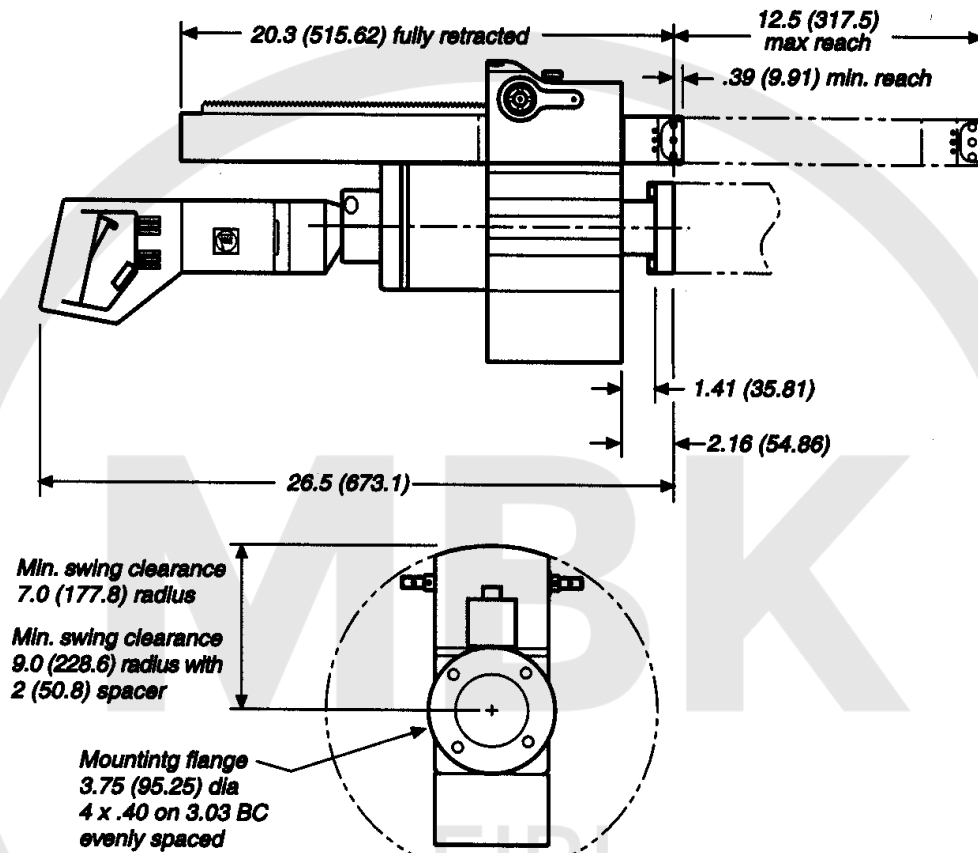
	US	Metric
Machine Performance Ranges		
Turning Reach	12.5 inches	317.5 mm
Shaft dia. maximum		
without optional spacer/counterweight assembly	5.0 inches	127.0 mm
with the optional spacer/counterweight assembly	9.0 inches	228.6 mm
Shaft dia. minimum		
without optional spacer/counterweight assembly	1.5 inches	38.1 mm
Shaft dia. minimum	5.0 inches	127.0 mm
with the optional spacer/counterweight assembly		
Feed rate, automatic (infinitely variable)	0 - 0.035 inches/rev.	0 - 0.89 mm/rev
Cutter modified	1/2 inch (12.7 mm) HSS round lathe tool bit	
Power Options		
Power, electric		
120V, 60 Hz or 230V, 50Hz	0.66 Hp	0.49 kW
Torque: 40 ft-lbs (53.7 N•m) at 78 rpm bar speed. Bar speed: 52 - 104 rpm max.		
Motor Speed: 330 - 700 rpm no load, 0 - 420 rpm full load. Variable speed control with 5 detent positions.		
Power, pneumatic	1.22 Hp	0.91 kW
(non-reversing, Hp rated at 200 rpm). Torque: 95 ft-lbs (127.6 N•m) at 55 rpm bar speed. Bar speed: 0 - 96 rpm max.		
Motor speed: 375 rpm no load, 200 rpm full load. Infinitely variable speed control with needle valve.		
Air flow required: 90 psi @ 30 ft ³ /min (620 kPa @ 0.85 m ³ /min).		
Measures		
Overall length, electric		
bar fully retracted	27.0 inches	685.8 mm
bar fully extended	39.0 inches	990.6 mm
Overall length, pneumatic		
bar fully retracted	32.0 inches	812.8 mm
bar fully extended	44.5 inches	1130.3 mm
Overall height	13.75 inches	349.3 mm
without optional spacer/counterweight assembly		
with optional spacer/counterweight assembly	17.75 inches	450.9 mm
Operating weight, electric motor		
without spacers or counterweights	99 lbs	44.9 kg
with spacers and counterweights	116 lbs	52.6 kg
Operating weight, pneumatic motor		
without spacers or counterweights	94 lbs	42.6 kg
with spacers and counterweights	111 lbs	52.3 kg
Shipping weight	190 lbs	86.2 kg
Shipping dimensions L x W x H	26 x 19 x 15 inches	660.4 x 482.6 x 381.0 mm

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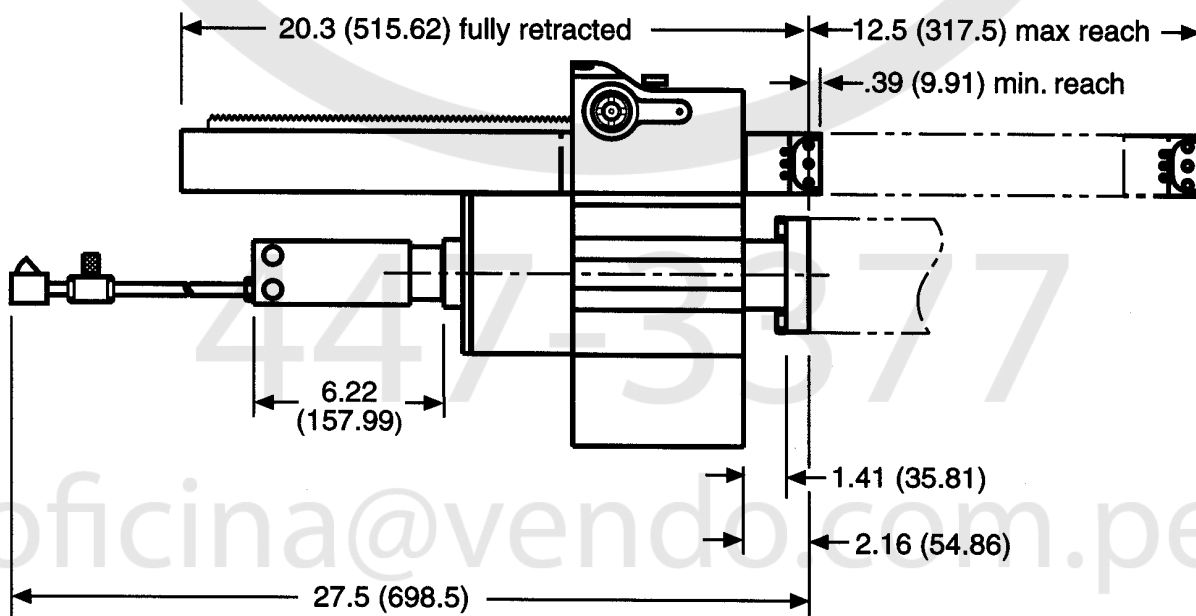
All dimensions should be considered reference. Contact your Climax Representative for precision dimensions. Specifications are subject to change without notice. There are no systems or components on this machine that are capable of producing hazardous EMC, UV or other radiation hazards. The machine does not use lasers nor does it create hazardous materials such as gasses or dust.

OPERATIONAL DIMENSIONS

Dimensions in Inch (mm)



PL2000 with Electric Motor



PL2000 with Pneumatic Motor

TOOL CONFIGURATIONS

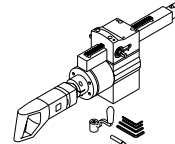
Select your PL2000 in 5 easy steps.

- 1 Select a Machine Configuration
- 2 Select a Bolt Adapter
- 3 Select a Dial Indicator Assembly
- 4 Select a Spacer Assembly
- 5 Select a Tooling Pack

To configure the lathe you require, select the option you need in each step, then contact your Climax representative.

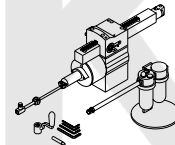
1 Machine Configuration

PL2000 Portable Lathe, Electric 120 V, 60 Hz **31591**
 Standard PL2000 complete with 0.6 Hp (0.45 kW) electric motor, instruction manual, and tool kit. Shipped in wooden crate. Net weight 99 lb (44.9 kg).



PL2000 Portable Lathe, Electric 230 V, 50 Hz **31593**
 As above, with 230 V, 50 Hz Motor.

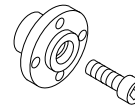
PL2000 Portable Lathe, Pneumatic **31584**
 Standard PL2000 complete with 1.22 hp (.91 kW) pneumatic motor, instruction manual, tool kit and pneumatic conditioning unit. Shipped in wooden crate. Net weight 94 lb (42.7 kg).



PL2000 Portable Lathe, Pneumatic, CE Compliant **31584CE**
 As above with CE approved pneumatic connection package with emergency air shutoff valve assembly.

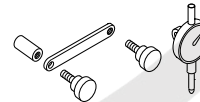
2 Bolt Adapter

Single bolt mount adapter **30572**
 Allows attachment of the PL2000 to the end of the shaft with one bolt. Recommended for shafts under 3.75 inches (95.3 mm) in diameter.



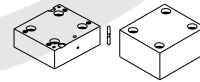
3 Dial Indicator Assembly

Dial Indicator Assembly **30407**
 Attaches to tool head for accurately aligning the machine.



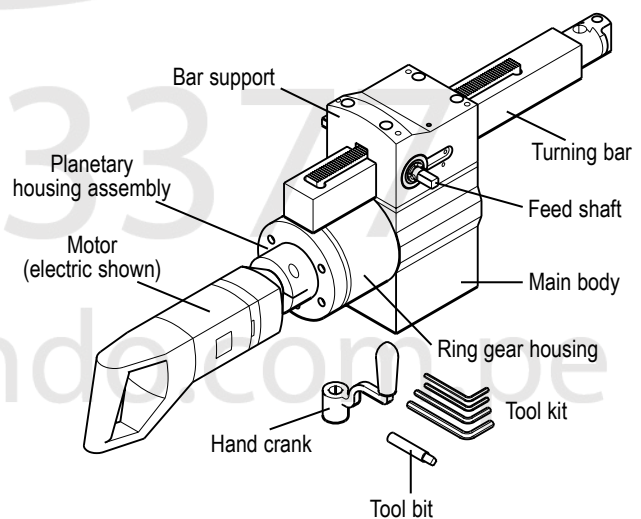
4 Spacer Assembly

Spacer assembly **31590**
 Spacer and counterweight assembly. Allows the PL2000 to turn 5.0 - 9.0 inches (127.0 - 228.6 mm) diameter shafts. Includes all mounting hardware.



5 Tooling Pack

Tooling Pack (not shown) **37810**
 One ½ inch x 3.0 inch (12.7 mm x 76.2 mm) grooving/plunging tool bit, and one HSS ½ inch x 3.0 inch (12.7 mm x 76.2 mm) finishing tool bit in storage case.



Training at the Global Learning Center

Climax has been teaching the fundamentals and fine points of portable machine tool operation for practically as long as we've been inventing and building the tools.

At the Climax Global Learning Center situated in our corporate headquarters near Portland, Oregon, we provide training for machine tool operators on portable machine tool safety, and machine setup and operation. Trainees also receive technical tips and tools to improve operational efficiencies, with the vast majority of every program devoted to hands-on activities and skill development.



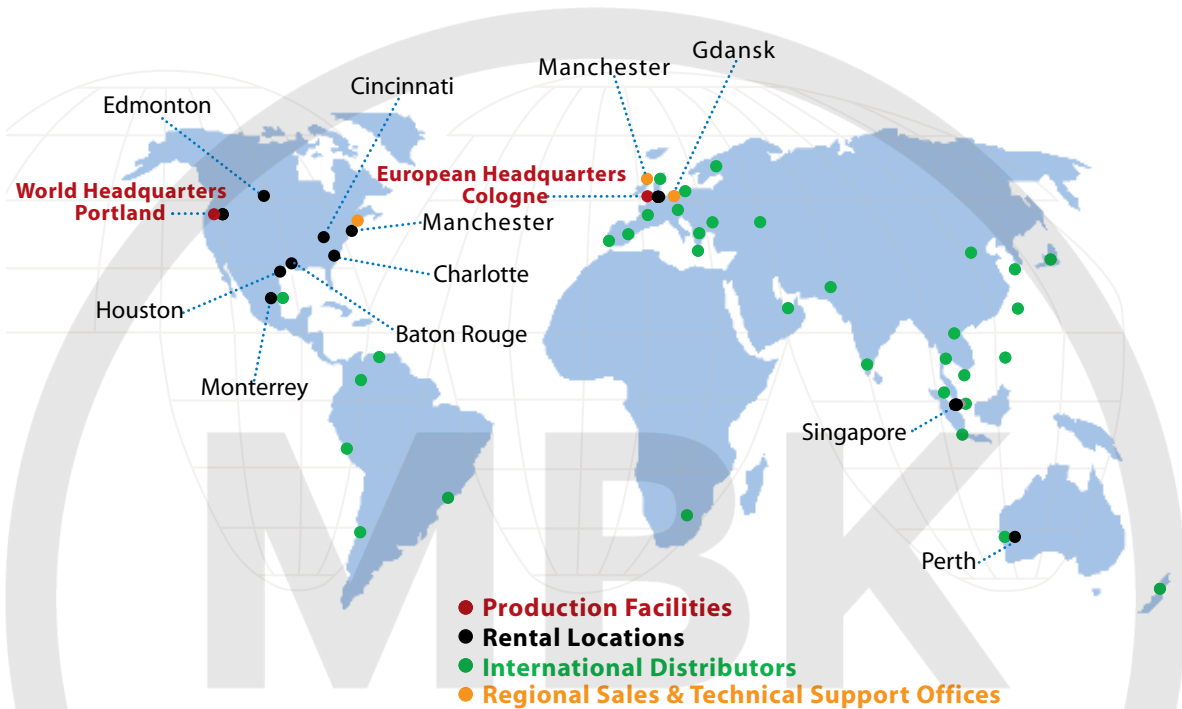
The Climax instructional team includes specialists in shipbuilding, power generation, civil engineering, bridge re-building, petrochemical and other industries.

Whether it's a regularly scheduled course at the Global Learning Center, or custom curriculum conducted at your facility, your machinists will benefit from courses developed by some of the most respected authorities in the business.

Call us today to register for a regularly scheduled class, or talk to us about how we can customize a training program for your specialized application.



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Connect with us:  

World Headquarters

2712 E. Second Street
Newberg, Oregon 97132 USA
Worldwide Telephone: 1.503.538.2185
N. America Toll-Free: 1.800.333.8311
Fax: 1.503.538.7600
Email: info@cpmt.com

European Headquarters

Am Langen Graben 8
52353 Düren, Germany
Telephone: (+49) (0) 2421.9177.0
Fax: (+49) (0) 2421.9177.29
Email: info@cpmt.de