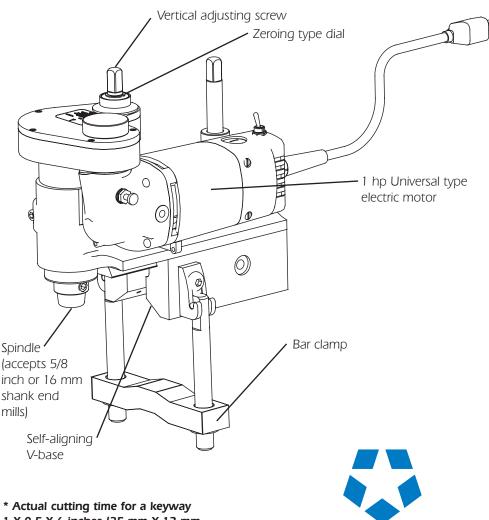
FEATURES • SETUP & OPERATION COMPONENTS & ACCESSORIES • TECHNICAL DATA

Cut a new, full-depth, 6 inch (152 mm) keyway in less than 4 minutes.*

The KM3000 Portable Key Mill is a simple, rugged, dependable machine tool designed to cut keyways in shafts without extensive dismantling. The automatically centering V-base is quick and easy to set up. The KM3000 clamps on any shaft up to 4.5 inches (114 mm) in diameter with the standard bar clamp. Cut stub-end keyways or mid-shaft keyways. Clamp the machine to a flat surface, and you can cut motor mount slots. With the optional shim kit you can cut keyways or slots in shafts as small as 0.75 inch (19 mm) in diameter.

- Compact, rugged, portable milling machine for on-site keyway and other milling jobs.
- Self-centering and self-aligning V-base
- Standard Weldon-type spindle accepts 5/8 inch or 16 mm shank end mills
- Zeroing-type vertical adjustment dial calibrated in 0.001 inch (0.1 mm) increments
- Vertical and horizontal travel via hand crank
- Dovetail ways for accurate cutting action
- Precision Acme thread leadscrew with roller thrust bearings
- Sealed aluminum alloy gear box permits operation at any angle
- Precision ground quill housing assures smooth operation

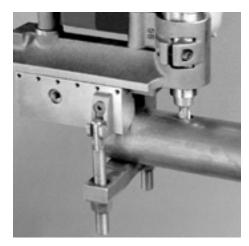
- The KM3000 Portable Key Mill only needs 1.5 inches (38 mm) of shaft for clamping.
- The KM3000 clamps shafts up to 10.5 inches (266 mm) dia. with optional chain clamp.
- Slotted V-base allows you to cut right to the end of the shaft.
- Zeroing-type adjusting dial for controlling cutter depth.



* Actual cutting time for a keyway 1 X 0.5 X 6 inches (25 mm X 13 mm X 152 mm) was 3 minutes and 10 seconds. This time was achieved in C1018 steel with a sharp end mill.



Insert the proper end mill in the spindle of the KM3000 Key Mill and clamp it on the shaft...it's that simple. On a straight shaft an experienced operator can mount the machine and be ready to cut a new keyway in less than five minutes! Shimming to fit tapered shafts may take a little longer.



MOUNT ON END Only 1.5 inches (38 mm) of shaft required for mounting the KM3000.



MOUNT IN MIDDLE The machine can be leveled for cutting long keyways.



TAPERED SHAFTS Mounting on tapered shafts require shimming.

As versatile as your imagination

Here are some examples:

- 1. Attach angles to the sides of the base, and clamp the KM3000 down to cut motor mount slots or bore holes.
- 2. Clamp on shafts up to 10.5 inches (266 mm) dia. with optional chain clamp.
- 3. Mounted in a vice, the KM3000 can cut keyways in small shafts and mill other small parts such as gear pullers.
- 4. Special fixtures make the KM3000 a rotating milling head to cut ID keyways and slots in large tubing, etc.
- 5. Use the KM3000 in tight places, like the shaft on a paving machine.
- 6. Cut flats on drill pipe section with the optional cross milling adapter and stamp ID marks if you wish.
- 7. Mounted vertically on a stationary milling machine, the KM3000 can cut a mounting pad for a readout instrument.















For help contact: Climax Portable Machine Tools, P.O. Box 1210, Newberg, OR 97132 USA Website: www.cpmt.com
Worldwide Phone: 503.538.2185 USA/Canada Toll-Free: 800.333.8311 Fax: 503.538.7600 Email: info@cpmt.com



Hydraulic motors

The KM3000 Portable Key Mill is available with a hydraulic drive motor for applications that require the higher horsepower or in environments where spark from an electric motor would create a hazard. Three spindle rpm motors are available: 274, 430 and 664 rpm. A hydraulic power unit capable of producing 6 gallons per minute (22.3 liter/min) is required to obtain maximum performance from these motors. Hydraulic power units are available from Climax.

Pneumatic motors (not shown)

For customers that would rather use air power, the KM3000 can be provided with a pneumatic motor rated at 1.2 hp (0.9 kW). Air powered key mills can be used safely in some environments where electric motors would create a hazard. The operator has infinite control of the spindle speed with the needle valve on the air motor.

Shim kits

By installing a shim kit on your KM3000 Portable Key Mill, you can mill shafts as small as 0.75 inches (19.1 mm) in diameter. The shims close up the throat of the V-base so smaller stock can be securely clamped for milling.

Cross milling adapter

With the cross milling adapter attached to the side of the KM3000 base, the machine can be clamped on shafts or pipe 90° to the longitudinal axis. The adapter bolts to the base using the clamp block attachment points so no modification of the machine is necessary. A chain clamp is required for use.

Chain clamp assembly

By using a chain clamp you can clamp the KM3000 to shafts as large as 10.5 inches (266.7 mm) in diameter. Only 1.5 inches (38.1 mm) of clamping space is needed on the end of the shaft. The assembly comes complete with chain, clamp blocks and bolts.

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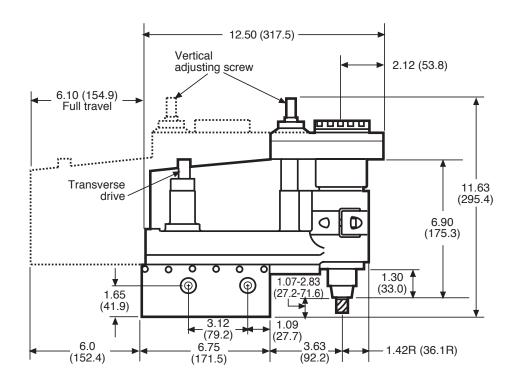


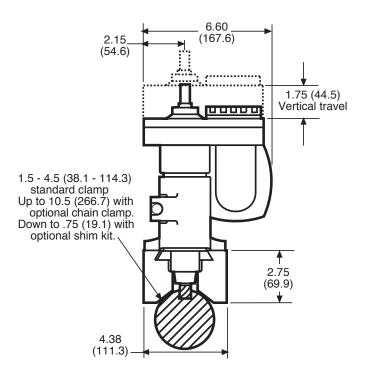
The KM 3000 Portable Key Mill comes complete with bar clamp, hand crank, hex wrench set, and instruction manual.

Specifications

Overall length	12.50 inches	317.5 mm
Overall width	6.60 inches	167.6 mm
Overall height	11.63 inches	295.4 mm
Base size	4.38 x 6.75 in.	111.3 x 171.5 mm
Stroke (slide travel) max.	6 inches	152.4 mm
Vertical travel max.	1.75 inches	44.5 mm
Power, electric 115 V or 230 V, 50-60 Hz.	1 hp	0.75 kW
No load variable spindle speed minimum maximum	350 with speed 280 rpm 525 rpm	control 280 rpm 525 rpm
Power, pneumatic	1.2 hp	0.9 kW
Power, hydraulic	4.7 hp	3.50 kW
Spindle hole dia.	0.625 inches	16 mm
Maximum end mill dia.	1.25 inches	31.75 mm
Metal removal rate in C1018 steel.	1 in3/min	16.4 cm3/min
Maximum shaft dia: standard bar clamp with optional chain clamp	4.5 inches 10.5 inches	114.3 mm 266.7 mm
Minimum shaft dia: standard bar clamp with optional shim kit	1.5 inches 0.75 inches	38.1 mm 19.1 mm
Minimum clamping space required on stub shaft	1.5 inches	38.1 mm
Machine weight (with Speed Control)	70 lb	31.8 Kg
Shipping weight	82 lb	37.3 kg
Shipping size	13 x 14 x 20 in.	33 x 36 x 51 cm





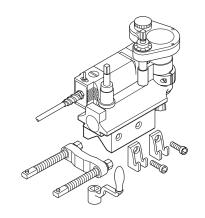


All Dimensions are inches (mm).



ORDER NO.

DESCRIPTION



KM3000, electric

Standard key mill Model KM3000 complete with 1 hp electric motor, instruction manual, tool kit, and bar clamp. Order collets and end mills separately. Shipped in wooden crate. Net Wt. 25 kg (55 lb).

16000 KM3000, inch 120 V with no Speed Control (domestic)

As above with in-line switch and standard U.S. cord set.

16001 KM3000, inch 230V with Speed Control CE

As above with 230 V motor, inch spindle and CE-compliant electric

speed control.

16003 KM3000, metric 120V with no Speed Control (domestic)

As above with 120 V motor, inch spindle, inline switch and standard

U.S. Cord set.

16004 KM3000, metric 230V with Speed Control CE

As above with 230 V motor, metric spindle, and CE- compliant electric speed control.

37000 KM3000, inch 120V with Speed Control (domestic)

As above with 120 V motor, inch spindle, and electric speed control.

36783 KM3000, metric 120V with Speed Control CE

As above with 120 V motor, metric spindle, and CE- compliant electric

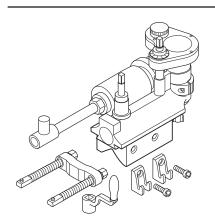
speed control.

39572 KM3000, metric 120V with Speed Control (domestic)

As above with 120V motor, metric spindle, and electronic speed control.

39571 KM3000, metric 230V with no Speed Control

As above with 230Vmotor, metric spindle, and no speed control.



KM3000 Portable Key Mill, pneumatic (with conditioning unit)

Standard key mill Model KM3000 complete with 1.2 hp pneumatic motor*, instruction manual, tool kit, and bar clamp. Order collets and end mills separately. Shipped in wooden crate. Net Wt. 55 lb (25 kg).

16002 KM3000 Portable Key Mill, inch

As above with inch calibration.

16005 KM3000 Portable Key Mill, metric

As above with metric calibration.

16005CE KM3000 Portable Key Mill, CE approved

As above with metric calibration.

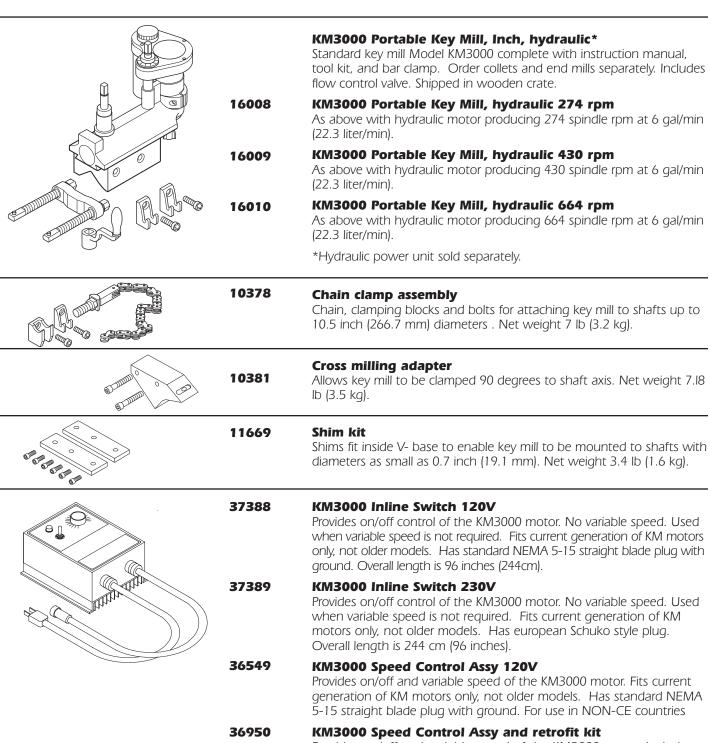
*Motor requires 40 ft3/min (1 m3/min) at 90 psi (620 kPa).

Drawings may not represent actual product.



ORDER NO.

DESCRIPTION



Provides on/off and variable speed of the KM3000 motor. Includes 36549 speed control assy and a new end cap assy (34142) for the motor so that older machines can use the current design controller. Has standard NEMA 5-15 straight blade plug with ground. For use in NON-CE countries

36685 KM3000 Speed Control Assy 230V CE

Provides on/off and variable speed of the KM3000 motor. Fits current generation of KM motors only, not older models. Has european Schuko style plug. For use in CE countries.

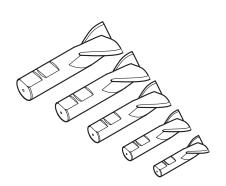
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ORDER NO.

10385

DESCRIPTION



End mill sets

SAE and metric 2-flute end mills are available. Short flutes for maximum rigidity. See separate end mill price list for availability.

End mill set, inch

Seven end mills from 1/4 - 1 inch in 1/8 inch increments, plus collet.

10386 End mill set, inch

> 8 end mills from 3/16 - 1 inch in 1/16 inch increments, plus collet, and 7 end mills from 1/4 - 1 inch in 1/8 inch increments.

10387 End mill set, metric

Five end mills: 8 mm, 10 mm, 12 mm, 16 mm, and 18 mm, plus two collets.

Climax Portable Machine Tools Worldwide Manufacturing, Sales & Rental Facilities



KM3-1M0604

Corporate Headquarters

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