Cut a new, full-depth, 6 inch (152.4 mm) keyway in less than 4 minutes









The CLIMAX 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. Clamps onto any shaft from 1.5 - 4.5 inches (38.1 - 114.3 mm) in diameter with the standard bar clamp. It cuts stub-end and midshaft keyways. Or 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 inches (19.1 mm) in diameter.

COMPACT & POWERFUL

Self-centering and self-aligning V-base ensures your keyway is perfectly centered on the shaft. Self-centering and self-aligning V-base.

Only 1.5 inches (38.1 mm) of the shaft is required for mounting the KM3000, allowing you to cut a keyway the full length of the machine's travel.

Optional chain clamp assembly allows the Key Mill to clamp onto shafts up to 10.5 inches (266.7 mm) in diameter.

Slotted V-base allows you to cut right to the end of the shaft.

EFFICIENT OPERATIONS WITH HIGH-QUALITY COMPONENTS

Versatile hand crank (t-handle) can be used for vertical and horizontal travel.

Dovetail ways for accurate cutting action.

Standard weldon-type spindle accepts 5/8 inch end mills or 16 mm shank end mills on metric machines.

Precision Acme thread leadscrew with roller thrust bearings for low friction advancement.

Zeroing-type vertical adjustment dial calibrated to control cutter depth in increments of 0.001 inch (0.1 mm).

Sealed aluminum alloy gearbox allows operation at any angle.

Precision ground quill housing ensures smooth operation.

Motor has soft start function and maintains speed as load increases.

SAFETY

CE and CSA certified and available worldwide! All KM3000 Key Mills are available for sale worldwide, including in the European Union and other locations where CE or CSA certification is required.



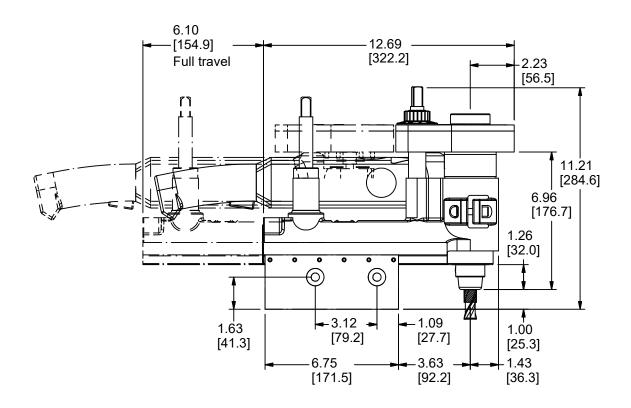


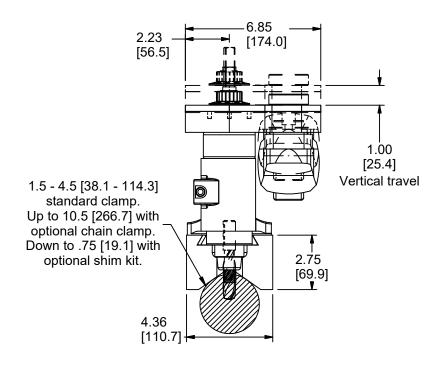
	Inch	Metric	
Machine Performance Ranges			
Stroke (slide travel) max.	6 in.	152.4 mm	
Vertical travel max.	1.75 in.	44.5 mm	
No load variable spindle speed minimum maximum		180 rpm 530 rpm	
Spindle hole diameter	0.625 in.	16 mm	
Maximum end mill diameter	1.25 in.	31.75 mm	
Maximum shaft diameter: standard bar clamp with optional chain clamp	4.5 in. 10.5 in.	114.3 mm 266.7 mm	
Minimum shaft diameter: standard bar clamp with optional shim kit	1.5 in. 0.75 in.	38.1 mm 19.1 mm	
Minimum clamping space required on stub shaft	1.5 in.	38.1 mm	
Power Options			
Electric	120V or 2	120V or 230V, 50-60Hz	
Pneumatic (upon request)	1.5 HP	1.12 kW	
Hydraulic (upon request)	0.79 in. ³ - 4.0 HP	12.9 cm ³ - 3.0 kW	
	1.93 in. ³ - 3.3 HP	31.6 cm ³ - 2.5 kW	
Measurements			
Overall length	12.9 in. to slide	327.7 mm to slide	
	19 in. to cord	482.6 mm to cord	
Overall width	6.85 in.	174 mm	
Overall height	11.2 in.	284.5 mm	
Base size	4.38 x 6.75 in.	113.3 x 175.1 mm	
Operating weight	53 lbs	24 kg	
Shipping weight	96 lbs	43.5 kg	
Shipping dimensions	13 x 14 x 20 in.	330 x 360 x 508 mm	
Machining Ability Example			
Material	C10	C1018 steel	
Metal removal rate for hydraulic power	1 in. ³ /minute	16.4 cm ³ /min	
Metal removal rate for electrical power	0.4 in.3/minute	6.5 cm ³ /min	
Keyway dimensions	1 x 0.5 x 6 in.	25.4 x 12.7 x 152.4 mm	
Cutting Time	3 minutes a	3 minutes and 10 seconds *	

^{*}Actual cutting time for a keyway 1 x 0.5 x 6 inches (25.4 x 12.7 x 152.4 mm) was 3 minutes 10 seconds. Achieved this time with C1018 steel and a sharp-end mill.

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.

Dimensions in inch (mm)





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.

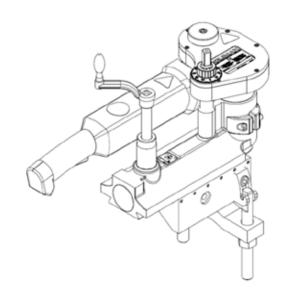
TOOL CONFIGURATIONS

To order your KM3000 Key Mill, simply select your Key Mill and contact your CLIMAX sales representative.

The KM3000 Key Mills come standard with a 1.0 Hp (0.75 kW) electric motor with speed controller, tool kit, bar clamp, operator manual, and wood crate.

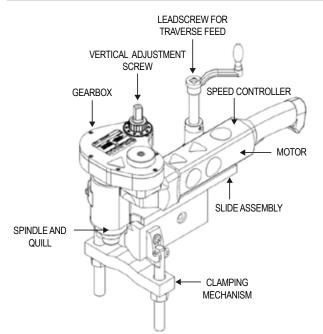
Order collets and end mills separately.

Part No.	Inch/Metric	Motor	Speed Control
103698	Inch	120 V	CSA Certified
103699	Metric	120 V	CSA Certified
103700	Inch	230 V	CE Certified
103701	Metric	230 V	CE Certified



ACCESSORIES

Chain clamp assembly - Chain, clamping blocks and bolts for attaching key mill to shafts up to 10.5 inch (266.7 mm) diameters. Net weight 7 lb (3.2 kg)	27364
Cross milling adapter - Allows key mill to be clamped 90 degrees to shaft axis. Net weight 7.18 lb (3.5 kg)	10381



Shim kit - Shims fit inside V- base to enable key mill to be mounted to shafts with diameters as small as 0.7 inch (19.1 mm). Net weight 3.4 lb (1.6 kg).	11669
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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.

	8
End mill set, inch - Seven end mills from 1/4 - 1 inch in 1/8 inch increments, plus collet.	10385
End mill set, inch - Eight end mills from 3/16 - 1 inch in 1/16 inch increments, and seven end mills from 1/4 - 1 inch in 1/8 inch increment, plus 3/8 inch ID collet for end mills 7/16 inch and smaller.	10386
End mill set, metric - Five end mills: 8 mm, 10 mm, 12 mm, 16 mm, and 18 mm, plus two collets, one with 16 mm OD with 10 mm ID, the other with 16 mm OD and 12 mm ID.	10387
End mill set, metric - Eight end mills: 5 mm, 6 mm, 8 mm, 10 mm, 12 mm, 14 mm, 16 mm, 18 mm, plus	22387

NOTE: Drawings are for reference only, are not to scale, and may not represent actual product.

three collets.

APPLICATION PHOTOS

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 allow the KM3000 to cut ID keyways and slots in large tubing, etc.
- 5. Use the KM3000 in tight places, like the shaft on a paving machine.
- 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.





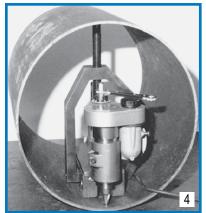
The KM3000 is widely used by these industries:

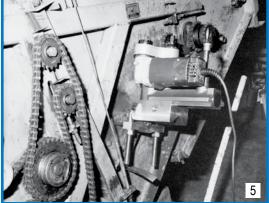
- Construction
- Mining
- · Power Generation
- · Ship building
- · Pulp and paper
- · Steel and aluminum

Typical applications:

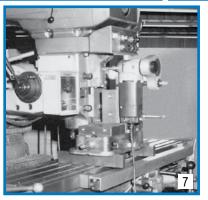
- · Key slots on crank shafts
- Keyways on tapered shafts
- · Keyways on pump shafts
- Motor and pump repair
- · Mill radius slots in turbine shafts
- · Cutting new keyways on paper rolls
- · Chipper and conveyor repair
- · Keyways on motors



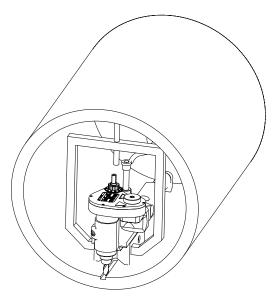




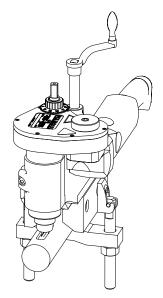




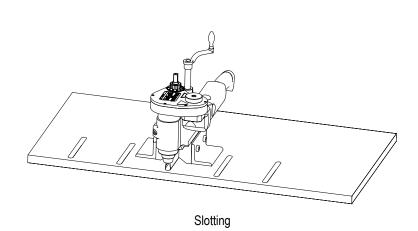
APPLICATIONS

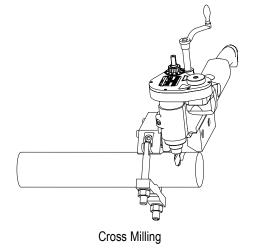


ID Keyway Cutting



OD Keyway Cutting







Mount on endOnly 1.5 inches (38.1 mm) of shaft required for mounting the KM3000.



Mount in the middle
The machine can be leveled for cutting long keyways.



Tapered shaftsMounting on tapered shafts require shimming.

OEM PROFESSIONAL OPERATIONAL TRAINING



Backed by Over 50 Years of Experience

CLIMAX pioneered the concept of portable machine tools in 1964. Since that time, CLIMAX has grown to become the world's largest provider of innovative on-site machining solutions.

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All training programs are taught by experienced OEM CLIMAX trainers. Your instructor will provide valuable information on operator safety, tool set-up, mounting, and operation that will help you complete your on-site machining tasks quickly and to the highest quality standards.



Typical Courses Include:

- Operator safety
- ✓ Tool component review and setup
- Standard operational techniques
- Overview of cutting tools and recommend usage
- Maintenance procedures
- ✓ A certificate of achievement is-sued to each student immediately following course completion

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