

## POWERMATIC PM2700 Shaper

The POWERMATIC PM2700 Shaper brings an industry-leading package of features to your shop, bolstered with the legendary POWERMATIC durability and precision. The result of several years of thoughtful design, the POWERMATIC PM2700 Shaper has been built from the ground up to be the last shaper you will ever need.

### Unique Cabinet for Mobility

The base cabinet is built from heavy gauge steel that has been carefully formed and fully welded to support the immense cast iron table above. This base cabinet also houses the powerful motor and cast iron spindle mechanism. The cabinet features an effective dust collection chute that terminates in a 4"-diameter port at the rear. A second 4"-diameter dust port is integrated into the main fence tube. We recommend using a dust collector with a minimum 600-CFM (cubic feet per minute) capacity.



The Powermatic PM2700 shaper is tough, accurate and built to last.



The cast iron base and retractable casters make moving this machine both mobile and rock steady when in use.

A large door on the end of the cabinet provides ample access to the belt and spindle lock. A window in the door lets the operator see what position the belt is in without having to open the door. For safety the door is equipped with a micro switch that prevents the motor from starting unless the door is firmly closed.

Thanks to the liberal use of high-end cast iron and steel the overall weight of the thoroughly heavy-duty POWERMATIC PM2700 Shaper is 664-lbs. We understand that many users have to move their machines within the shop so we added four heavy duty, full swivel casters to the POWERMATIC PM2700 Shaper. And, we made them fully retractable! The casters have tough polyurethane tires that roll smoothly and leave no marks. The casters are easily extended or retracted using the large 8"-diameter cast iron handwheel with a spinner knob. When the

casters are retracted the POWERMATIC PM2700

Shaper morphs into a stationary unit that has its cast iron base fully in contact with the floor for maximum stability.

### Power and Controls

The POWERMATIC PM2700 Shaper is available with a 3HP, 230V, 1 Phase motor (#1280100C), a 5HP, 230V, 1 Phase motor (#1280101C) or a 5HP, 230/460V (pre-wired 230V) 3 Phase motor (#1280102C). The motor is mounted in a heavy-duty cast iron mechanism, fully enclosed within the base cabinet. That mechanism also controls cutter height and is operated by the large 8"-diameter cast iron handwheel (with spinner) on the front of the base cabinet. An

easy to use spindle lock is also built into the motor mount assembly and accessible through the side door.

The motor is fitted with a two-speed pulley system that uses a tough Poly-V belt, known for its smooth, slip-free transmission of power. A tool-free belt tension release mechanism makes changing between the 7500 RPM to 10,000RPM spindle speeds fast and easy. The belt tensioning mechanism is easily adjustable to compensate for belt stretch in the future.



The controls (left) are grouped where they are in easy reach of the operator. The powerful motor (right) is easily accessible through the large side door. Changing spindle speeds is fast and tool-free.

A switch on the front of the POWERMATIC PM2700 Shaper selects between Off, Forward and Reverse. The motor is turned on and off with a magnetic switch, which can be positioned at either the front or the side of the shaper, within easy reach of the operator. The magnetic switch protects the motor from power fluctuations that could damage it. Also, the magnetic switch protects the operator should the power go out and then come back on unexpectedly. Once the power goes out, the On button must be depressed to re-start the machine. It will not start on its own when the power comes back on.

The On button has a green pilot light that when illuminated provides one indication that the POWERMATIC PM2700 Shaper is connected to electrical power. That button is depressed to start the machine. A large red ring surrounding the On button is depressed to shut the machine off. This ring is positioned to be easily accessible and it can be “bumped” with your leg or hand to shut the machine off quickly.

The magnetic switch also has a magnetic “key” in the form of a disk that fits into a receptacle on the front of the switch housing. When this magnetic key is removed, the switch is rendered inoperable. The magnetic key can be dropped in a pocket or stuck to virtually any steel or iron surface in the shop.



The spindles (left) are retained with a tough drawbar and locking nut. Spindle height changes are done using the large-diameter cast iron handwheel (right) fitted with a spinner handle.

### Versatile Spindle

The POWERMATIC PM2700 Shaper comes with 3/4” and 1-1/4”-diameter spindles. There’s also a 1” spindle available with a full set of spacers to accommodate virtually any cutter height. Also available are

1/2" and 1/4" collets to accommodate router bits.

The spindle has a full 4" range of vertical travel. Spindle height adjustment is made using an 8"-diameter cast iron hand wheel that is fitted with a spinner knob that makes large height changes or cutter changes fast.

An easy to read digital display on the front of the POWERMATIC PM2700 Shaper makes ultra precise bit height changes as small as 0.001" simple. The display can be changed from inch to metric scales with the push of a button. Another button zeros the scale at any point when pushed. That allows making extremely precise bit height changes. If you can measure the amount of error, you can dial in the exact bit height change needed to correct it on the POWERMATIC PM2700 Shaper. This saves time and the expense of multiple test pieces.

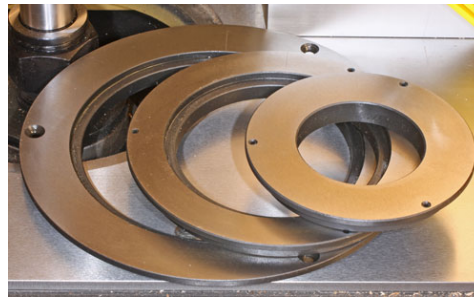


The digital spindle height display makes super accurate height changes dead-on simple.

### Massive Table



The huge cast iron table (left) makes working with large pieces safe and accurate. The cast iron insert rings (right) let you size the opening to best fit the cutter being used.



The POWERMATIC PM2700 Shaper comes with a huge 30"-deep by 40"-wide, super flat cast iron table that makes handling even large materials easy

and safer. The table is a comfortable 35-1/2" from the floor with the casters retracted. The top also features a full-sized, t-shaped miter slot that runs the full width of the table. A full-featured miter gauge is included with the POWERMATIC PM2700 Shaper.

The table opening has a set of cast iron reducer rings that provide 2-35/64", 4-5/32", 5-3/4" and 7-3/8" (all reducer rings removed) openings. These rings fit flush with the surrounding cast iron table for maximum safety and performance.

Both rear corners of the table are drilled and tapped to accept the popular POWERMATIC power feeders. These two mounting locations make installing these handy accessories fast, simple without sacrificing versatility.



Both rear corners of the table are pre drilled and tapped to accept our popular feeder systems

## Industrial Fence System



The sophisticated fence system (left) gives you all of the options you need for accuracy and safety. Each fence half is easily adjusted using the micrometer-like dial (right) to the rear of each half.



The POWERMATIC PM2700 Shaper comes with a fully articulated, tool-free fence system that maximizes function, versatility and safety. At the center of the

fence is a large, clear guard that is fully adjustable to best protect the cutter area without sacrificing the operator's view.

The entire fence is adjusted front to back with a gear drive and locked in place with two hand-operated knobs. Each of the extruded aluminum face halves are 18-3/4" long by 4-7/8" tall. The fence faces have channels that make attaching auxiliary faces, shop-made jigs or fixtures easy and secure. The face halves are individually adjustable left and right so that the opening around the cutter can be minimized for accuracy and safety.

Each fence half has its own set of micro-adjustable controls so it can be perfectly aligned with each other or precisely offset front-to-back for operations such as jointing or cutting full thickness profiles. The micrometer-style dials controlling each fence half allow making ultra precise changes. Each full rotation of these dials produces 1/16" of change.

The POWERMATIC PM2700 Shaper fence system comes with a pair of fully adjustable featherboards. These featherboards can be positioned anywhere along the fence halves to enhance both cut quality and safety.



The included featherboards (two) help keep the cuts consistent while improving safety.

The POWERMATIC PM2700 Shaper has been designed and built to provide the power, accuracy and durability your shop needs. Whether you are a serious hobbyist or a full-on cabinet shop, the POWERMATIC PM2700 Shaper will make your work more accurate and safer while eliminating costly downtime.