

## POWERMATIC 1285 12" Jointer

Whenever woodworkers talk about high capacity machines, the jointer is near the top of that list. The POWERMATIC 1285 12" Jointer was designed from the ground up to fill that need for capacity with equal doses of accuracy and dependability. From the parallelogram table design to the innovative helical insert cutterhead, the POWERMATIC 1285 12" Jointer sets the standard in wide capacity jointers.



The POWERMATIC 1285, 12" Jointer sets the standard in wide capacity jointers.

Built from heavy-duty iron castings for long-term durability the POWERMATIC 1285 12" Jointer weighs in at a hefty 762 lbs. The full 12" by 84" bed length makes straightening the largest project pieces exceptionally accurate. Add the parallelogram design table mechanisms and the POWERMATIC 1285 12" Jointer rises above the competition.

There are four variations of the POWERMATIC 1285 12" Jointer, all are identical except for the motor/power and/or cutterhead design. The POWERMATIC 1285 12" Jointer in the accompanying photos is the #1791307 that comes equipped with a 3HP, 1Ph, 230V motor and helical insert cutterhead. The #1791241 has the 3HP, 1Ph, 230V motor and standard 3-knife cutterhead. The #1791249 comes with a 3HP, 3Ph, 230/460V and the 3-knife cutterhead. Finally, the #1791308 version comes with the 3HP, 3P, 230/460V motor and the helical insert cutterhead. The 230/460V machines come prewired for 230V operation.



The all steel base cabinet houses the motor and the dust collection chute that terminates in a 4"-diameter port.

### Base Cabinet

The fully welded, all steel base cabinet puts the POWERMATIC 1285 12" Jointer on steady footing. At 29"-long by 17"-deep and 22 3/8"-tall, the base cabinet puts the POWERMATIC 1285 12" Jointer bed at a comfortable 32" above the floor.

The base cabinet also houses the motor and its adjustable mount for adjusting the twin V-belt tension when necessary. A door on the end of the base cabinet and a removable panel on the rear provide ample access to the motor and its mount. All of the wiring and electronic components are also housed within the base cabinet, including the magnetic starter.

The industrial on/off switch is mounted to a mast that puts it within easy reach while operating the POWERMATIC 1285 12" Jointer. The switch is guarded and has a soft vinyl cover that makes it very dust resistant.

Also contained within the base cabinet is an effective dust evacuation system. A large chute runs from under the cutterhead to a 4"-diameter outlet located near the floor on the end of the base cabinet. Positioning the dust outlet low on the base helps to keep the hose flat on the floor to be less of a trip hazard. This position also creates a more direct path that



The industrial style switch is guarded and has a soft vinyl cover that makes it very dust resistant.

enhances evacuation of the substantial amount of chips and dust that the POWERMATIC 1285 12" Jointer is capable of creating.



### Large, Parallelogram Design Tables

For a jointer to straighten wood accurately the infeed and outfeed tables must be coplanar - perfectly aligned with each other side-to-side and front-to-back. The tables on the POWERMATIC 1285 12" Jointer use a specially designed parallelogram mechanism that keeps them coplanar throughout the

The 84" long tables (left) provide plenty of support to accurately joint long project pieces.

The rabbeting ledge allows making up to 3/4" by 3/4" rabbets. height settings. Each table has an easy to use adjustment that allows the user to correct dropping of the tables at the outboard ends should that develop in the future.

The parallelogram mechanism that moves the tables up and down also maintains the small gap between them and the cutterhead throughout their range of travel. Keeping the tables close to the cutterhead produces cleaner, more accurate cuts and a superior finish on the wood.

### Table Heights

Both the infeed and outfeed tables have large, easy to use levers for making height changes. Both also use a large knob on the side to lock the setting in without strain. Of course, both tables are fitted with easy to adjust limiting stops that control the full up and full down travel. Rabbets up to 3/4" by 3/4" can be cut using the cast-in rabbet groove on the POWERMATIC 1285 12" Jointer outfeed table.



Both tables have easy to use handles (left) and locking knobs. The dual spring assist (right) makes these massive cast iron tables "feel" much lighter than they really are when making height adjustments.

Because of the large size of the POWERMATIC 1285 12" Jointer tables we added a dual spring assist system that makes the tables feel much lighter to the operator when using the height adjustment handles. The spring assist is automatic and never requires adjustment.

### Precision Fence

The POWERMATIC 1285 12" Jointer comes with a fully adjustable fence system that makes precise bevel cuts easy to do. The 47"-long by 5 3/8"-tall cast iron fence is supported by large



The fence has a gear drive (left) that makes positioning it on the table easy and accurate. The mechanism that controls bevel settings (right) is all cast iron with adjustable stops and easy to use locks.



iron components that assure stability and truly accurate cuts at any angle. To insure flatness the face of the fence is surface ground.

The fence has adjustable stops at 90-degrees (vertical) and 45-degrees in or out. Changing fence angles is easy thanks to the tall handle that gives the operator plenty of leverage over this heavy cast iron piece. A large lever locks the fence at any bevel angle

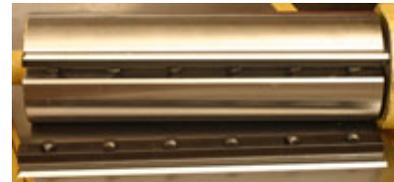
desired.

The fence face is supported on a large steel tube that keeps it rigid at all settings. The fence can be positioned at any point across the width of the tables using a large-diameter knob. Release the large locking lever and turn the knob to put the fence exactly where desired, lock it in place with the lever and you are ready to go to work.

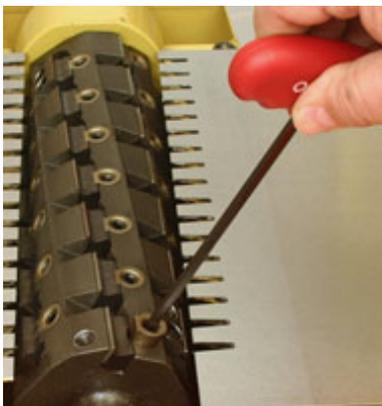
### Knife Cutterhead Models

The POWERMATIC 1285 12" Jointer is equipped with our proven three knife cutterhead. The 12"-long by 1 3/16"-tall and 1/8"-thick tool steel knives are retained by the proven gib and gib screw system that is as tough and secure as it is simple to use.

We include a knife-setting gauge that makes getting all three knives set correctly and at the same height fast and easy.



The straight knife cutterhead uses full-width gibs and locking bolts to secure the three knives. We include a knife setting jig that makes setting these knives simple.

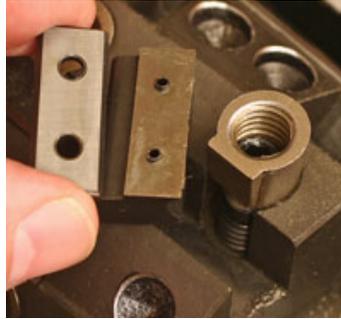


The helical insert head is specially designed to drastically reduce the upward pressure most wide helical heads put on the wood.

### Helical Insert Cutterhead

The POWERMATIC 1285 12" Jointer (#1791307) features a helical insert cutterhead that is extremely effective because its 42 high grade tool steel inserts (30 x12 x 2mm) are arranged in six spiral-shaped rows. This insert arrangement means the cutting edges approach the wood at an angle to give them a slicing action. Combined with their mounting position in the cutterhead, their cutting action produces an exceptionally smooth finish. This design also dramatically reduces the upward force applied to the wood by the cutters, making it far easier for the operator to get a truly smooth surface when using all or the majority of the available 12"-wide surface.

The 3 ½”-diameter cutterhead is precision machined from solid high-grade steel. This assures proper alignment of the helical inserts. In addition, the overall weight of the cutterhead adds a flywheel effect that smoothes the cutting action even more.



The helical inserts are easy to change because they are self-locating. (left) There is no shimming or adjusting needed. We include wrenches and spare inserts with mounting hardware (right) with the POWERMATIC 1285 Jointer.

The helical insert cutterhead cuts so efficiently that it dramatically reduces the noise made when cutting wood. In fact, it is so quiet, new POWERMATIC 1285 12” Jointer users often think it is not cutting wood at all, until they see the results.

The helical inserts are precisely machined from high-grade tool steel. Each insert has two identical cutting edges so if one edge goes dull or is damaged, you simply turn the insert over to expose the other cutting edge!



The full 12” width capacity makes the POWERMATIC capable of handling the big jobs without straining the operator or your budget.

Because the inserts themselves and the seats into which they fit are so precisely machined, there is no adjustment or “fitting” necessary. Indexing or replacing an insert is done very quickly using the supplied wrench. Simply loosen that insert’s gib screw, lift the insert and its block out, replace or turn the insert over and reverse the procedure to re-install it. There is no adjusting or shimming needed.

Another benefit of the helical insert cutterhead is that should a hidden piece of metal be encountered, only the inserts around that point of the cutterhead will be dulled or damaged. Replace those inserts (or turn them over) and the cutterhead is again ready for action. Your down time is dramatically reduced as is the potential cost of the repair!

The POWERMATIC 1285 12” Jointer brings the tough durability, long-term accuracy and substantial capacity to make your shop more effective.