

POWERMATIC® WB-37 Wide Belt Sander

The POWERMATIC® 37" Wide Belt Sander is designed to deliver ultra precise sanding and a flawless finish in the busy shop environment. Centralized controls grouped on one simple panel make operating this machine easier and safer. A variable speed feed conveyor, a special digital thickness readout control and an auto thicknesser all make the POWERMATIC® WB-37 Wide Belt Sander easy to use and more productive. To simplify installation we include a built-in air supply connection with its own regulator and filter. The electrical box is cleanly laid out for reliability and to be easy for your staff to service. Each POWERMATIC® WB-37 Wide Belt Sander also comes with a tool box loaded with necessary tools for service and adjustment.



Powermatic wide belt sanders are designed and built with production and safety in mind.

This sander is available in three belt sizes. The WB-37, (#1790837) in the accompanying photos has a 37"-wide sanding belt and is powered by a 20HP 3PH 230/460V motor. The WB-43, (#1790843) uses a 43"-wide sanding belt and is powered by a 25HP 3PH 230/460V motor. The WB-25, (#1790825) has a 25"-wide sanding belt and is powered by a 15HP 3PH 230/460V motor. Aside from the belt size and motors, the features remain virtually identical.

Tri-Power System



The centralized control panel and digital display enhance safety and accuracy.

The POWERMATIC® WB-37 Wide Belt Sander uses three individual motors to maximize consistency and performance. The 20HP motor drives the sanding belt drive drums. A 1HP variable speed motor powers the feed belt. Finally, a 1/4HP motor supplies power to the system that moves the table up and down to vary thickness.

Using three separate motors insures consistency of operation and allows the use of high precision controls to manipulate each of them. A three motor system can also reduce downtime and long-term maintenance costs.

Sophisticated Controls

The POWERMATIC® WB-37 Wide Belt Sander has all of its frequently used controls grouped on a centralized panel. This allows the operator to access them or to shut the machine down easily without having to move around the machine. The digital readout eliminates mistakes by displaying the exact thickness that has been entered.

For safety, the POWERMATIC® WB-37 Wide Belt Sander has a powerful disc brake that slows the machine quickly when it is shut off. It also stops it instantly in the event of an emergency when the exterior safety bar is depressed.



A disk brake stops the machine quickly when the OFF button is pushed or the emergency Stop bar is bumped.

The POWERMATIC® WB-37 Wide Belt Sander uses an air-eye system to control the oscillation of the 37" x 75" sanding belt. The air-eye works precisely every time because it does not become contaminated with dust like a light-based eye could. The air-eye system keeps the belt oscillating uniformly to make the best use of the available sanding area. It also prevents lines from being left on the work piece.

Belt Settings and Changing

The POWERMATIC® WB-37 Wide Belt Sander comes with 100 and 180-grit belts. A large side door provides full access to the belt system and related controls. Even the belt platen is specially designed with a replaceable graphite pad that can be checked or replaced through the side door. The platen position can be adjusted to maximize sanding performance with the various wood species and conditions.

Belt tension is automatic and applied with air pressure. All of the belt controls are readily accessible and easy to use including simple tracking, oscillation speed and air flow dials. Descriptive graphics at the controls simplify these procedures.



The large access door (left) provides ample access for working with the sanding belt. Changing or adjusting the belt is easy thanks to simple, easy-to-use controls. (right)

Belt changing is fast and tool free. A dial control shuts off air pressure to the tensioning cylinders to free the belt, remove the spacer block and the belt slips off of its rollers. Slide the new belt into position, install the spacer block and apply air pressure to tension it for use.

Feed Conveyor

The feed conveyor belt is specially designed to provide smooth, consistent material movement for ultra-smooth sanded surfaces. The conveyor belt is driven by a variable speed motor that can be set to any speed within the 15 - 49 fpm (feet per minute) range. Feed rate adjustments are made using a dial on the conveyor motor, allowing the operator to set the best speed for the job. Tracking and conveyor belt tension adjusters are easily accessible from the front of the POWERMATIC® WB-37 Wide Belt Sander.



The feed conveyor has its own variable speed motor and an infinite control.

Thickness Controls

The POWERMATIC® WB-37 Wide Belt Sander is equipped with sophisticated thickening controls that make its operation fast, simple and virtually error free. The POWERMATIC® WB-37 Wide Belt Sander handles stock up to 6"-thick and as short as 12" and the control systems make using that range easy.



In addition to the keypad, this auto-thickening system makes initial setup very fast and accurate.

The digital read out and keypad eliminates mistakes and allows ultra precise settings. Special circuitry within the thickening control automatically lowers the table slightly below the desired setting and then raises it to be certain any slack has been removed from the lead screws when it reaches the desired dimension.

While specific dimensions can be entered directly on the keypad, (has metric or standard capabilities) the setting can be "bumped" up or down. Each time the UP or DOWN arrow keys are depressed, the setting is adjusted by 0.005". Press either key three times and the setting changes by 0.015". When using these keys, the table goes below and then back up to the desired setting.

We also built in an automatic thickening system that measures the material and automatically sets the table to that depth. This system is located next to the conveyor table where it is easily accessible. Simply hold the stock on the thicknesser knob and hold the UP button on the keypad. The table rises until the top of the wood contacts the limiter switch and the table height is automatically set to that thickness. Dial in the amount of material to be removed and the piece can be sanded very accurately.

Dust Collection

The POWERMATIC® WB-37 Wide Belt Sander has three, 5"-diameter dust ports on the top that make connecting it to your dust system easy. A dust collection system with a minimum 1600-CFM (cubic feet per minute) is required. The exterior ports are connected to internal baffles that focus the collection power to keep the interior of the POWERMATIC® WB-37 Wide Belt Sander as clean as possible. That prolongs the life of the abrasive and keeps the machine running smoothly.

The POWERMATIC® WB-37 Wide Belt Sander is built with the industrial environment in mind. Heavy-duty components and simplified maintenance make it easy for in-house personnel to keep the POWERMATIC® WB-37 Wide Belt Sander running smoothly with minimal downtime and maximum production. The 84.625-inch height, 57.5-inch width and 52.375-inch length and overall weight of 2090 LBS mean the POWERMATIC® WB-37 Wide Belt Sander packs all of these capabilities into a compact package.



Three top-mounted 5"-diameter dust ports make connection to your collection system easy.