

JET -35X Heavy-Duty Shaper

The JET JWS-35X Heavy-Duty Shaper brings the accuracy, durability and power to handle tough jobs with the versatility you need. High quality materials and construction along with a user friendly array of features makes the JET JWS-35X Heavy-Duty Shaper a high value addition to any shop. The quality built into the JET JWS-35X Heavy-Duty Shaper allows us to extend its long-term value with our 5-year warranty!

The high power and large spindle capacity make the JET JWS-35X Heavy-Duty Shaper compatible with a huge number of cutters to handle many jobs, including the larger ones. The growing number of shaper cutter profiles available means the versatility of the JET JWS-35X Heavy-Duty Shaper will continually grow.



The JET JWS-35X Heavy-Duty Shaper has the accuracy, durability and power to handle your jobs today and in the future.

Table & Fence

The JET JWS-35X Heavy-Duty Shaper features a spacious 26 ¾" by 32 ¼" precision ground cast iron table. Pre-drilled and tapped holes on the rear table corners are ready to mount most power feeders on either side of the cutter. The table also has a full-sized ¾" by 3/8" T-shaped miter slot that accepts the full-featured miter gauge included with the JET JWS-35X Heavy-Duty Shaper. This standard sized slot also accepts common aftermarket tooling and shop-made jigs.



The large, all cast-iron table (left) provides plenty of support for the large jobs. A heavy-duty start pin is included and can be installed to the left or right of the cutter. Fully articulated safety shields (right) are easy to set up for maximum safety and efficiency.



The table has a 7 ¼"-diameter opening for compatibility with the largest of cutter sizes. We also include inserts to reduce the table opening to 4 7/8" and 2 5/8". Mounted on the all steel base cabinet, the table surface is a comfortable 33 ¼" above the floor. A heavy-duty,

screw-in starting pin is also included and threads into holes on to the left and right of the cutter to help make many hand operations safer.

The large, solid fence system with fully adjustable 4" tall by 16" long left and right face halves gives you the stability and control for precision work. The fence faces are infinitely adjustable left and right on their mounts and each secured with a single finger-operated knob. Both extruded aluminum faces have grooves in them that make attaching wooden faces or specialty shop-made jigs easy and secure. A pair of featherboards is included that also fit in the fence slots.



The left (operators view) fence half has a micro adjuster (front to back) for setting up ultra precise jointing operations. A gauge at its adjusting knob helps set the precise amount of offset desired for your jointing operation.

All fence Controls are tool-free (left) including the jointing adjuster (right) that lets you offset the faces precisely for accurate jointing operations.

At the center of the fence system is a heavy duty, cast iron housing that contributes to the remarkable stability of this system. At the rear of that housing is a 4" diameter dust collection port. Tabs within the port help break up the large clusters of debris shaper cutters are capable of generating. When connected to a dust collector (400CFM minimum capacity) the dust system helps keep the work area clear and the bits cutting freely.



A pair of full-featured featherboards is included to enhance safety and cut quality.

The center of the fence housing is covered with fully adjustable safety shields that helps keep you safer while enhancing chip collection regardless of the cutter shape or diameter. The forward shield is clear to afford the best view of the cutter and wood while making cuts. The entire fence system is tool-free including the top and forward guard settings. Easy to use finger-operated knobs allow positioning and configuring the fence quickly without having to find wrenches.

Power and Speeds

The JET JWS-35X Heavy-Duty Shaper is available in different three power options. The JET JWS-35X Heavy-Duty Shaper 35X3-1 (#708323) is equipped with a 3 HP, TEFC (totally enclosed fan cooled) 1 Phase, 220V motor. The JET Heavy-Duty Shaper 35X5-1 (#708326) has a 5Hp, 1 Phase, 220V/460V motor. The JET Heavy-Duty Shaper 35X5-3 (#708327) has a 5HP, 3 Phase motor which is frequently used in industrial applications.

JET motors are rated using a continuous duty cycle rather than “peak” or “max developed” horsepower claims. Using the continuous duty cycle provides an accurate representation of the power output of the JET motors so you can make the best tool buying decision for your work shop environment.

A heavy-duty magnetic On/Off switch controls the JET JWS-35X Heavy-Duty Shaper. The switch box is equipped with a magnetic “key” that when removed prevents unauthorized startups. The magnetic switch protects the JET JWS-35X Heavy-Duty Shaper from power fluctuations that could damage the motor. It also prevents the motor from restarting should the power go out and then come back on unexpectedly. The motor/cutter rotation can be reversed using a switch on the front of the JET JWS-35X Heavy-Duty Shaper cabinet for different cutters and special setups.



A large door in the cabinet side (left) provides easy access to the motor and belt system. It even has a large window through which the belt position can be confirmed.



The entire motor mount and spindle assembly (right) is heavy-duty for maximum accuracy and durability. The belt tension release lever (arrow) makes changing speeds fast and easy.



The controls on the front of the cabinet are easy to reach and use. The magnetic On/Off switch protects the motor and you. The large cast iron handwheel makes bit height changes fast and easy.

The JET JWS-35X Heavy-Duty Shaper has four spindle speeds, 4000, 6000, 8000 and 10,000RPM. The speeds are generated by a set of precisely machined stepped pulleys on the motor and spindle shaft. The JET JWS-35X Heavy-Duty Shaper connects the pulleys with a Poly-V-belt, known for smooth power transmission, resistance to slipping and low heat buildup.

Moving the Poly-V-belt between pulley positions is fast and tool-free. A single lever releases belt tension. Move the belt and flip the lever again to tension the belt for use. An easy to reach belt tension adjuster is built into this release system should the belt stretch.

A large access door in the base cabinet provides access to the belt mechanism and motor. The door even has a window that allows the user to quickly confirm that the belt is in the desired position without needing to open the door.

Spindle and Cutter Height

The JET JWS-35X Heavy-Duty Shaper comes with a 1-1/4" diameter, 4" tall (under the nut) spindle. The spindle is equipped with a full set of spacers so it can secure shaper cutters of virtually any thickness. The spindle mounts into a large, self-centering tapered seat and is locked in place by a large captured nut and a heavy steel drawbar for security. A large steel wrench is included for working with the spindle. An easy to use knurled handle just inside the cabinet door locks and unlocks the spindle to make cutter changes easier and safer.

We also offer 1/2"-diameter (#708380), 3/4"-diameter (#708317), 1"-diameter (#708314), and 30mm-diameter (#708372) spindles as accessories. All spindles are 4" tall. We also offer collets in 1/4" (#708373) and 1/2" (#708374) capacities to handle router bits that are compatible with shaper speeds.



The full-height spindle (left) comes with various spacers that make securing cutters easy. The spindle is installed using the taper seat, a large lock nut and a drawbar. The height of the spindle combined with the spacious table opening (right) allow the use of large diameter cutters and even stacking cutters that are designed for that kind of operation.

The spindle has a full 4" vertical travel to accommodate large and small cutters as well as using a portion of a cutters profile. An 8" diameter cast iron handwheel on the front of the base cabinet makes height changes easy and accurate. A large, easy to read scale on the cabinet next to the handwheel quantifies those changes as they are made.

The heavy cast iron mechanism below the table supports the spindle and motor assemblies. The bulk of this cast iron assembly helps prevent vibration while contributing to the overall stability of the spindle and cutter. The elevation mechanism has a set of gibb screws that let the user compensate for wear that might occur in years to come.

Accessories

Additional Spindles

708373	1/4" Router Collet
708374	1/2" Router Collet
708380	1/2" Spindle
708317	3/4" Spindle
708314	1" Spindle
708328	1-1/4" Spindle
708372	30mm Spindle

Mobile Base



If you need to move your machines around the shop, our mobile base makes the JET JWS-35X Heavy Duty Shaper a breeze to wheel out for use or to park out of the way when the job is complete.

JWS-35X Heavy-Duty Shaper in place while in use.

If moving the 475LB JET JWS-35X Heavy-Duty Shaper around your shop is a priority, we offer the JET #708119 Mobile Base kit. This mobile base is tool-free and assembles quickly. It can also be adjusted to fit the JET JWS-35X Heavy-Duty Shaper base cabinet without tools. The heavy duty fixed wheels and the full-swivel casters make moving the JET JWS-35X Heavy-Duty Shaper easy. All wheels lock to keep the JET