

JET JFM-5 Hollow Chisel Mortiser

Cutting accurate mortises can be a challenging task. The JET JFM-5 Hollow Chisel Mortiser is designed to produce extremely accurate mortises in a wide range of woods and project designs, plus make this an easy task for the woodworker. The JET JFM-5 Hollow Chisel Mortiser has been designed and built to extend its value by maintaining its performance for many years under the demands of even busy woodworking shops.

We begin with a heavy-duty cast iron and steel frame for stability, accuracy and repeatability – not to mention long-term durability. Precision machining insures accuracy and smooth operation. The liberal use of cast iron gives the JET JFM-5 Hollow Chisel Mortiser a stabilizing mass of 267 pounds.

The massive powerhead casting slides on oversized dovetail keyways that feature easy to use Gib screw adjusters that allow the user to compensate for tiny amounts of wear should that occur in years to come. We also applied Gib screw adjusters to the X – Y material table motions to provide ultimate control over feel and long-term accuracy.

Base Cabinet



The all-steel base cabinet has storage for the auger & chisel sets and related tools. Add one of our universal mobile bases and the JFM-5 easily goes where you can use it best.

The JET JFM-5 Hollow Chisel Mortiser is mounted atop an all-steel, enclosed base cabinet. The cabinet is 14”-wide, 16”-deep, 23 ½”-tall and features an internal storage area for chisels, related tools and accessories. The base cabinet puts the JET JFM-5 Hollow Chisel Mortiser table surface at a comfortable 31 ½” height above the floor. The overall height of the JET JFM-5 Hollow Chisel Mortiser on its base cabinet is 61”.

If mobility is a priority in your shop, the JET JFM-5 Hollow Chisel Mortiser can be placed in one of our universal mobile bases (#708118). The JET JFM-5 Hollow Chisel Mortiser can then be easily moved to the most efficient workspace that is available.



The JET JFM-5 Mortiser is as tough as it is accurate and versatile.

Power and Construction

The JET JFM-5 Hollow Chisel Mortiser is equipped with a 1HP, TEFC (totally enclosed fan cooled) motor that delivers smooth, consistent power. The motor comes wired for 110V (11 amp) operation but can be converted to use 230V (5.5 amp) electrical power. The motor produces a (direct drive) spindle speed of 1725 rpm and is controlled by an industrial style push button On/Off switch, mounted on the powerhead for fast, easy access.



The tool-free depth stop is mounted close to the line of force so there is no deflection of the bit.

The powerhead has a full 8" stroke (Z-axis) controlled by a rack and pinion drive system that is as durable as it is precise. A 24"-long, solid steel operating arm affords the leverage necessary to cut even large numbers of mortises in the toughest of materials with ease. The arm attaches to the pinion shaft using a repositionable hub so the arm can be set for the most comfortable stroke regardless of material thickness.

A tool-free depth stop rod is built into the powerhead casting. Because the depth stop is located close to the line of force, deflection of the bit when the stop rod contacts its seat is virtually eliminated. This means a higher level of accuracy, cleaner mortises and extended bit/chisel lives.

Easy Bit Changes

A pair of hinged doors, one on either side of the powerhead provides easy access to the high quality, 1/2" capacity, key-operated, 3-jaw chuck. An extended chuck key is included that makes installing or removing the auger bits fast and easy. The chuck is designed to be compatible with the common long-shank auger bits. However, a chuck extender is included that allows using short shanked auger bits.

The powerhead housing below the chuck is bored to accept special (included) bushings that accommodate chisels with 5/8", 3/4" and 1 1/8"-diameter shanks. These bushings are compatible with our JET auger/chisel sets in 1/4", 5/16", 3/8", 1/2", and 3/4" sizes. JET auger/chisel sets in the above sizes are available individually or in a set from your favorite JET dealer.



The 1 Hp motor and easy to use switch provides the power and control you need.



Swing down doors on both sides provide easy access to the chuck for working with the auger bits

Versatile Work Table



The large work table surface and the adjustable stop make cutting several mortises fast, easy and accurate.

The worktable has built in X-axis (side to side) and Y-axis (front to back) movement functions that eliminate having to buy an X-Y vise. Movement of the table in the X and Y-axis are individually controlled by 5"-diameter handwheels, each with a spinner knob that speeds large changes. Tool-free adjustable stops on the X-axis makes cutting multiple mortises of the same size easy and accurate. We also include a fully adjustable work stop that attaches to the top of the fence from either side to make initial positioning of the material quick and repeatable.

Because the worktable has a total movement of 16" on the X-axis (left to right) and 4" on the Y-axis (front to back) most mortise jobs can be clamped in place after initial positioning and all further adjustments done with the handwheels. That is a huge time saver, along with a boon to accuracy. The table movement gives the JET JFM-5 Hollow Chisel Mortiser a maximum chisel center to fence clearance of 4".



The large work vise has a special quick-adjust feature, plus it can be rotated to make clamping angled or odd shaped work pieces much easier.

The JET JFM-5 Hollow Chisel Mortiser features a large 20"-wide by 7"-deep cast iron worktable with a 3 1/2"-tall fence at the rear. A pre-cut and drilled MDF table surface board is included that protects your bits when drilling through mortises.

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Large handwheels provide smooth, accurate control over the table movements.

To hold the stock securely while mortising we added a heavy-duty quick-adjust screw clamp with a huge 2 5/8"-tall by 8"-long cast iron face. That face also has a pair of predrilled screw holes that make attaching an auxiliary face or shop-built jigs simple. The clamp is mounted directly to the table with a special pivoting mount. Being able to pivot the clamp simplifies securing many angled or oddly shaped work pieces, while the quick-adjust feature allows for fast set-up and adjustments.

Auger/Chisel Sets

Because so many woodworkers use one or two chisel sizes for their projects, we do not include a set that would contain unused pieces that add to the price unnecessarily. JET auger/chisel sets are available individually from your favorite JET dealer in 1/4" (#6285526), 5/16" (#6285527), 3/8" (#6285528), 1/2" (#6285529) and 3/4" (#708594), or in a 5 piece set (#708595).