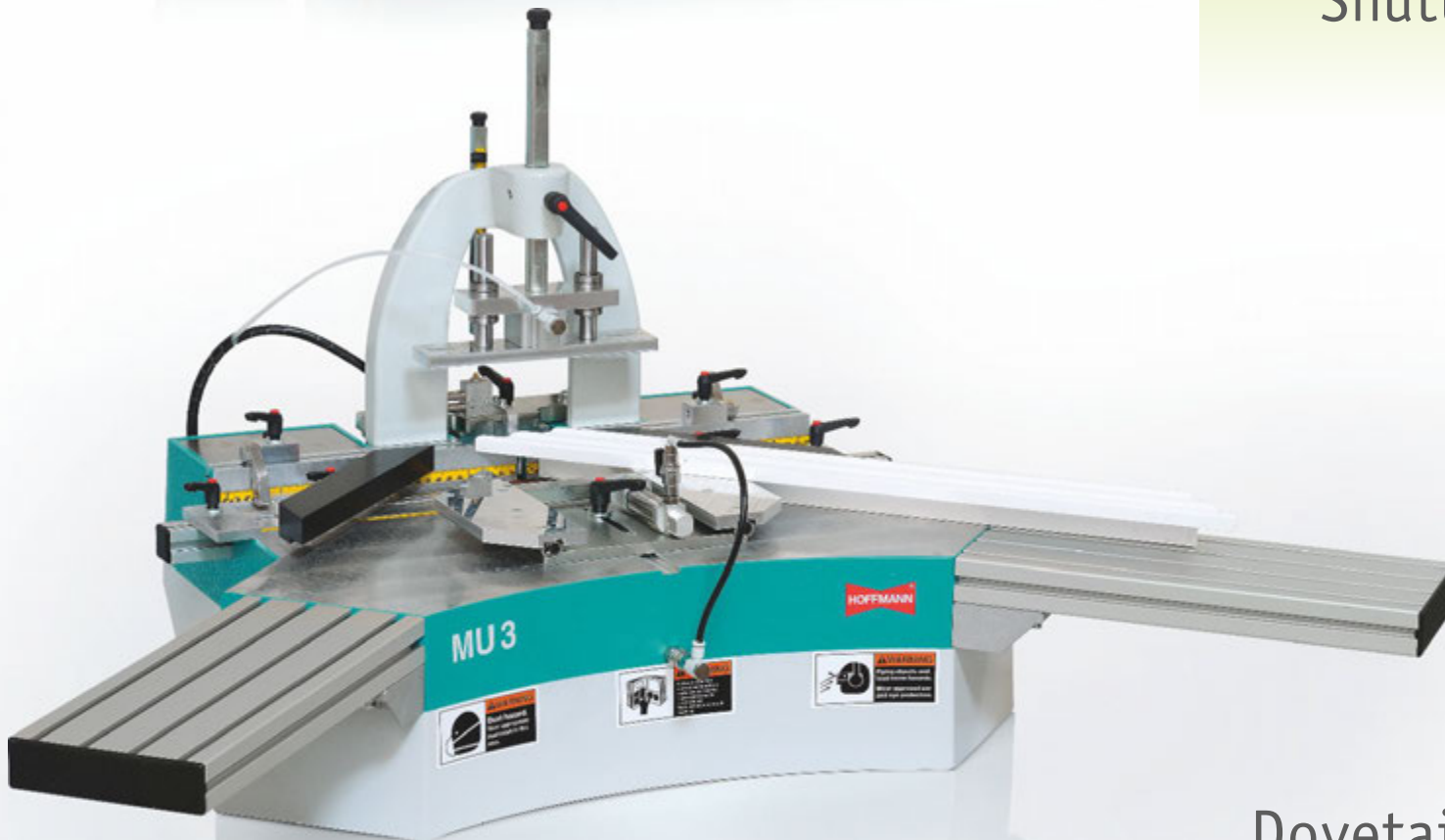




Shutter Equipment

Dovetail Joinery
for Plantation
Shutter Frames



The Hoffmann
Dovetail Joining System

The Hoffmann Dovetail Key – Your Key to perfect Shutter Frames

Simply Brilliant – Brilliantly Simple

Timeless Design

The dovetail shape is a proven and timeless design – a classic feature used in mechanical engineering and woodworking for hundreds of years. The precise, double dovetail shape of the HOFFMANN Dovetail Key and its ridged sides guarantee a snug fit and positive guidance when driven into the routed slots. As the Dovetail Key is inserted, the frame parts are drawn together, creating a tight, perfectly aligned and permanent joint without the need for clamps, screws or other fastening devices. **Fast – Exact – Reliable.**

Dovetail Key Colors

Standard HOFFMANN Dovetail Keys are made of a medium-brown polymer designed to blend in well with most wood shutter colors. White Dovetail Keys are offered in a range of lengths in both W-2 and W-3 sizes specifically for use with prefinished wood or white PVC shutters. Other colors are available as special order if matching specific wood finishes is required.

Fast and Reliable Assembly – even challenging profiles like large Z-Frames

HOFFMANN Dovetail Keys provide a fast, exact and reliable way of joining solid wood, composite, MDF and plastic plantation shutter frames, whether on a large production scale or in a small custom shop. All types and shapes of shutter frame profiles can be joined – from small L-Frames needing only one Key to the largest and most ornate large Z-Frames being secured with up to three Dovetail Keys.

Perfect Miter Joints – every single time!

The miter joints in the frame corners draw in your customers' eyes for closer inspection and if even one corner is open or offset, the impression of a poorly made shutter frame is hard to overcome. HOFFMANN Dovetail Keys, used in conjunction with an accurate miter cut, will produce tight and perfectly aligned miter joints in all your frames.

You control to quality of your mitered corners – not the installer!

One of the main advantages is the fact that neither the person joining frames in the shop, or, if frames are shipped unassembled, the installer onsite can change the alignment or tightness of the

resulting miter joint. The Dovetail Key has a special double-dovetail shape and ribbed, sloped sides to guarantee strong, tight joints every time. Every Key has a rounded end to aid in starting the insertion process and no special tools are required.

No more split corners due to improperly placed screws

Properly sized and located in the joint, HOFFMANN Dovetail Keys require no additional fasteners for a perfect result. No more haphazardly placed drywall screws driven at odd angles into the corners, no more stripped screw heads or split frames, no more offset or misaligned miter joints. Just perfect corners every single time!

The Right Key for Every Joint – and we help you get there

HOFFMANN Dovetail Keys are extremely versatile, with lengths ranging from 1/4" - 4" in different colors and materials. We offer perfectly sized Dovetail Keys for every plantation shutter frame size or shape and our Technical Support Service is available free of charge to help you select not only the correct Dovetail Key but also the best keyway location and HOFFMANN routing machine set-up.

Thank you
for your business!





Hoffmann Dovetail Keys



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Hoffmann Dovetail Keys - Sizes and Lengths.

White Dovetail Keys for plantation shutters, exterior poly trim, etc.

HOFFMANN Dovetail Keys in solid white polymer are produced for prefinished products such as plantation shutters, exterior building trim, PVC door and windows casing, etc. White W-2 and W-3 Dovetail Keys in different lengths are available from stock.

Dovetail Key, white polymer, size W-2

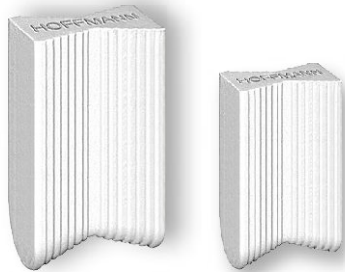
Ref.	Description	Size
W 9200600-22	white, 1/4"	W2
W 9200900-22	white, 3/8"	W2
W 9201200-22	white, 1/2"	W2
W 9201400-22	white, 9/16"	W2
W 9201500-22	white, 5/8"	W2
W 9201800-22	white, 3/4"	W2
W 9202000-22	white, 13/16"	W2

Dovetail Keys, white polymer, size W-3

Ref.	Description	Size
W 9301200-22	white, 1/2"	W3
W 9301500-22	white, 5/8"	W3
W 9301700-22	white, 11/16"	W3
W 9301900-22	white, 3/4"	W3
W 9302500-22	white, 1"	W3

Ref.	Description	Size
W 9202200-22	white, 7/8"	W2
W 9202500-22	white, 1"	W2
W 9203200-22	white, 1 1/4"	W2
W 9203800-22	white, 1 1/2"	W2
W 9204600-22	white, 1 13/16"	W2
W 9206000-22	white, 2 3/8"	W2

Ref.	Description	Size
W 9303100-22	white, 1 1/4"	W3
W 9303800-22	white, 1 1/2"	W3
W 9304600-22	white, 1 13/16"	W3
W 9305200-22	white, 2"	W3



Plastic Dovetail Keys in „wood-match“ colors

Specifically for the production of mitered cabinet doors and other applications where the Keys are visible in the finished product, we offer plastic Keys in different brown shades. Our wood-match Keys are available in sizes W2 – 5/8" (for 3/4" thick stock) and W2 – 7/8" (for 1" thick stock) in the following colors: Light Maple, Maple, Cherry, Walnut, Dark Walnut and Black. Dovetail Keys in other sizes and over 200 different colors can be produced as special orders.



HOFFMANN Dovetail Key Sample Cases

Sample Cases are available in sizes W-1, W-2 and W-3 and are ideal for initial testing, to produce sample joints with new moulding and to give shop employees an overview of all available Dovetail Keys.

Medium brown polymer Dovetail Keys, approx. 20 Keys per lengt

Size	Part Number
W-1, approx. 180 Keys	W9000111
W-2, approx. 255 Keys	W9000222
W-3, approx. 175 Keys	W9000333



Hoffmann Dovetail Keys - Sizes and Lengths.

A comprehensive range from 1/4" up to 4" long, solid polymer, medium brown color.

Hoffmann Keys are available in four different sizes, designated W-1, W-2, W-3 and W-4, with W-2 being the most popular size for general woodworking applications. Each size is offered in a range of lengths, starting with 1/4" in W-1 and W-2 (for moulding as thin as 5/16") and ending with 4" long Keys in W-3 and W-4 for heavy post-and-beam construction. Special sizes, lengths and colors can be produced to meet our customers' requirements.



- 3/8"
 - > Picture and Mirror frames
 - > Small, Applied moulding
- 7/8"
 - > Shadow Box Frames
 - > Delicate Trim Moulding
- 1 3/8"



- > Picture and Mirror frames
- > Small, Applied moulding
- > Shadow Box Frames
- > Delicate Trim Moulding



- 1/4"
 - > Mitered Cabinet Doors
- 3/8"
 - > Door and Window Casing
- 1/2"
 - > Compound Mitered Crown Moulding
 - > General Woodworking



- 1/2"
 - > Handrail Connections
 - > Furniture Frames
 - > Casket Components
 - > Plantations Shutters (Wood & PVC)
 - > Canvas Stretcher Frames
- 5/8"
- 11/16"
- 3/4"
- 1"
- 1 1/4"
- 1 1/2"
- 1 13/16"
- 2"
- 2 3/8"
- 3 1/8"
- 4"



- > Post and Beam Construction
- > Exterior Millwork
- > Prefabricated Homes
- > Pillar Bases
- > Pergolas and Garden Arbors
- > Wooden Outdoor Planters

- 1 9/16"
- 2 3/8"
- 3 1/8"
- 4"

- 1/4"
- 3/8"
- 9/16"
- 3/4"
- 7/8"
- 1 3/16"
- 1 9/16"
- 2"
- 2 3/8"

- 5/8"
- 3/4"
- 13/16"
- 7/8"
- 1"
- 1 1/4"
- 1 1/2"
- 1 13/16"
- 2 3/8"

The History of Shutters

The concept of shutters was brought to the New World by the Spanish and they found wide use in the Southeast, initially in large mansions attached to plantations, hence the name Plantation Shutters.

Nowadays plantation shutters are used throughout North America, with a regional concentration in the southeastern and southwestern United States. Shutters are manufactured in a wide variety of styles, sizes, finishes and materials, from the traditional solid wood to MDF, composite and various plastic compositions to meet different geographical and market demands.

What most shutter frame construction has in common are the mitered corners of the shutter frames, while mostly 45 degree miters custom shapes often require different angles depending on the window shape.

The HOFFMANN Dovetail Joining System has proven its value and reliability in the production of shutter frames worldwide for over 25 years. It is the preferred means of joining shutter frames not only for many of the largest manufacturers in North America, but our Keys are often found in products manufactured by many mid-size and even small shutter operation across the country.



Testimonials

**Michelle Gould,
Regional Operations
& Sales Manager
Sunland Shutters, Lakeland, FL**

We manufacture Polycore shutters and have been using Hoffmann Keys for over 15 years! We have found that with Dovetail Keys our mitered corners come together perfectly every time without cracking or busting out. The quick and easy assembly make our installs very consistent and much faster for the installers on the jobsite.

The customer support from Hoffmann is excellent!

**Bill Lee,
CEO**

**San Benito Shutter Co.
Hollister, CA**

We have been using the Hoffmann Joining System for our frames for more than 22 years now. They make for fast and easy frame assembly in house and on-site for installers. The Keys are always consistent and Hoffmann has improved our productivity and profitability.

They are a pleasure to have as our supplier.

**David Hayes,
President**

**Hayes Manufacturing, Inc.
Ellijay, GA**

Hayes Manufacturing, Inc. has been manufacturing the highest quality wood and poly plantation shutters since 1995. We service customers in Georgia, Alabama, Tennessee, Carolina, North Carolina, and Texas.

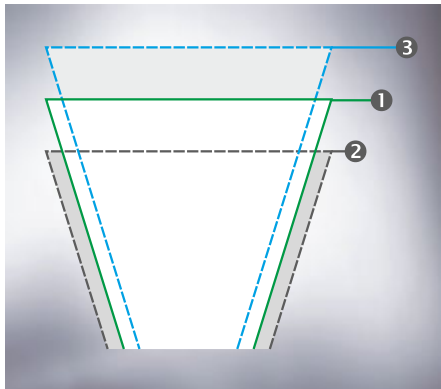
We have been using the Hoffmann Dovetail Joining System for over 20 years, our installers love it and we value these benefits for our frame construction:

- Eliminates the clamping process, thus saves considerable time during assembly and installation.***
- Eliminates additional fasteners, saves money and reduces damage due to improperly placed screws or nails (no more cracks and splits).***
- Eliminates alignment problems during assembly and installation which improves quality and reduces repair and re-work costs.***
- Consistent, reliable glue joints increase our output and efficiency.***

Some Helpful Tips

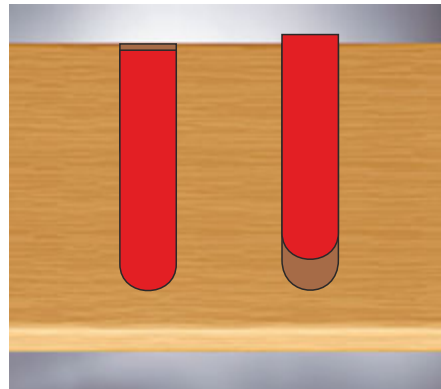
Depending on frame moulding cross-sections and on the Dovetail Keys being used, some applications may require the use of oversized HOFFMANN dovetail router bits. Please consult with HOFFMANN Technical Support for assistance in selecting the correct Dovetail Keys, keyway locations and router bits for best results. We are here to help!

Proper Keyway Adjustment



- 1 The ideal router bit position**
The ideal setting for the installed router bit is pre-set at the factory and corresponds to the included set-up jig. This bit position will assure optimum joint strength in a wide variety of materials and profiles.
- 2 To reduce Key tension**
Reducing the projection of the router bit (as measured from the back fence) by approx. 0.2mm will reduce pressure but also create a weaker joint.
- 3 To increase Key tension**
Increasing the projection of the router bit (as measured from the back fence) by approx. 0.2mm will increase pressure but also increase the chance for splitting the material when inserting a Key.

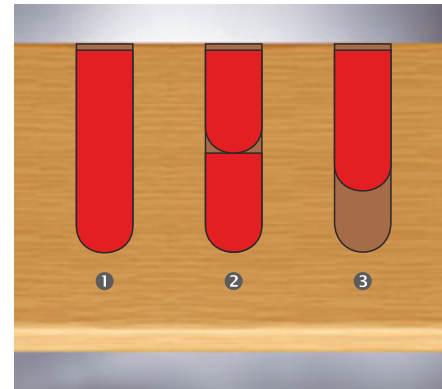
Selecting the Proper Keyway Length



Dovetail keyways should generally be routed to within 1/16" – 1/8" of the finished surface.

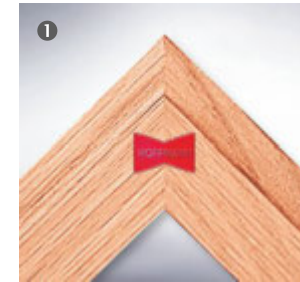
Driving the Keys all the way in until they bottom-out will increase tightness and strength of the assembled joint.

Choosing the Proper Dovetail Key Length



- 1 Correct Key length**
 - 2 Keys can be stacked if necessary**
 - 3 Incorrect Key length resulting in weak joint**
- Hoffmann Keys are available in a wide range of lengths, from 1/4" up to 4". Always choose the longest possible Key for best results, e.g. 5/8" Keys for 3/4" material, 7/8" Keys for 1" material, etc.

Choosing the Proper Keyway Location



- 1 Correct Key position**
 - 2 Incorrect position**
- Setting the Keys closer to the middle of the material reduces the chance for splitting.

MU 3-P

Pneumatic Dovetail Routing Machine with factory-installed Fixtures for Plantation Shutter Frames



Professional level, pneumatically controlled dovetail routing machine to rout a single dovetail keyway with each machining cycle. Shutter specific fixture kit is factory installed and connected to machine's pneumatic circuit. Left and right hand fences are designed to reference against the inside step of shutter frame moulding, assuring perfectly aligned inside corners for consistent gaps between frames and panels. Heavy cast aluminum machine construction with large, ergonomically shaped table surface, precision linear bearings and galvanized steel motor carriage with integrated motor fine adjustment. For Dovetail Key sizes W-0, W-1, W-2, W-3 (W-4 with optional larger motor).

Operation

The keyway locations are adjusted by setting the left and right 45-degree Shutter Fences with the aid of recessed tape scales. Multiple locations can be pre-set with flip-stops. The keyway length (routing height) is adjusted by setting a height-stop rod to the desired setting.

Pressing the pneumatic foot pedal starts the machining cycle:

- > Pneumatic vertical and horizontal clamps secure workpiece and motor is switched on
- > Router head advances until pre-set height is reached
- > Router head returns to home position and motor is switched off
- > Pneumatic clamps release workpiece

Technical data

Power Supply / Air Supply	120 volts - 7.4 Amps / 90 psi - approx. 0.1 cubic foot/cycle
Motor / Motor speed	885 Watt motor with double front bearing / 35,000 rpm at idle
Collet size	1/4"
Motor carriage guides	20mm diameter guide rods, precision ground
Digital Display	dual liquid crystal display, 3/8" digit size, accurate to 0.004"
Operation	pneumatic - dual cylinder design
Max. height	routing 3 3/4" - 95mm / moulding 5 7/8" - 150mm
Dust collection port	2" - 50mm diameter
Installed router bit	W-2, solid carbide
Available router bits	W-0, W-1, W-2, W-3 (W-4 with optional larger motor)
Dimensions W/D/H	29 1/8" x 25 5/8" x 32 3/4" (without optional table extensions)
Weight	70.4 lbs.
Order Number	W1032100



Motor Fine Adjustment

Precise fine adjustment with scaled knob and tool-less locking lever for perfect settings every time. Easily increase joint strength for larger profiles or decrease strength when joining thin and tall material without guesswork.

Larger Motors

Updated MU-3 series router motor has more power reserves and is 18% larger than previous version (885 watts vs. 750 watts)



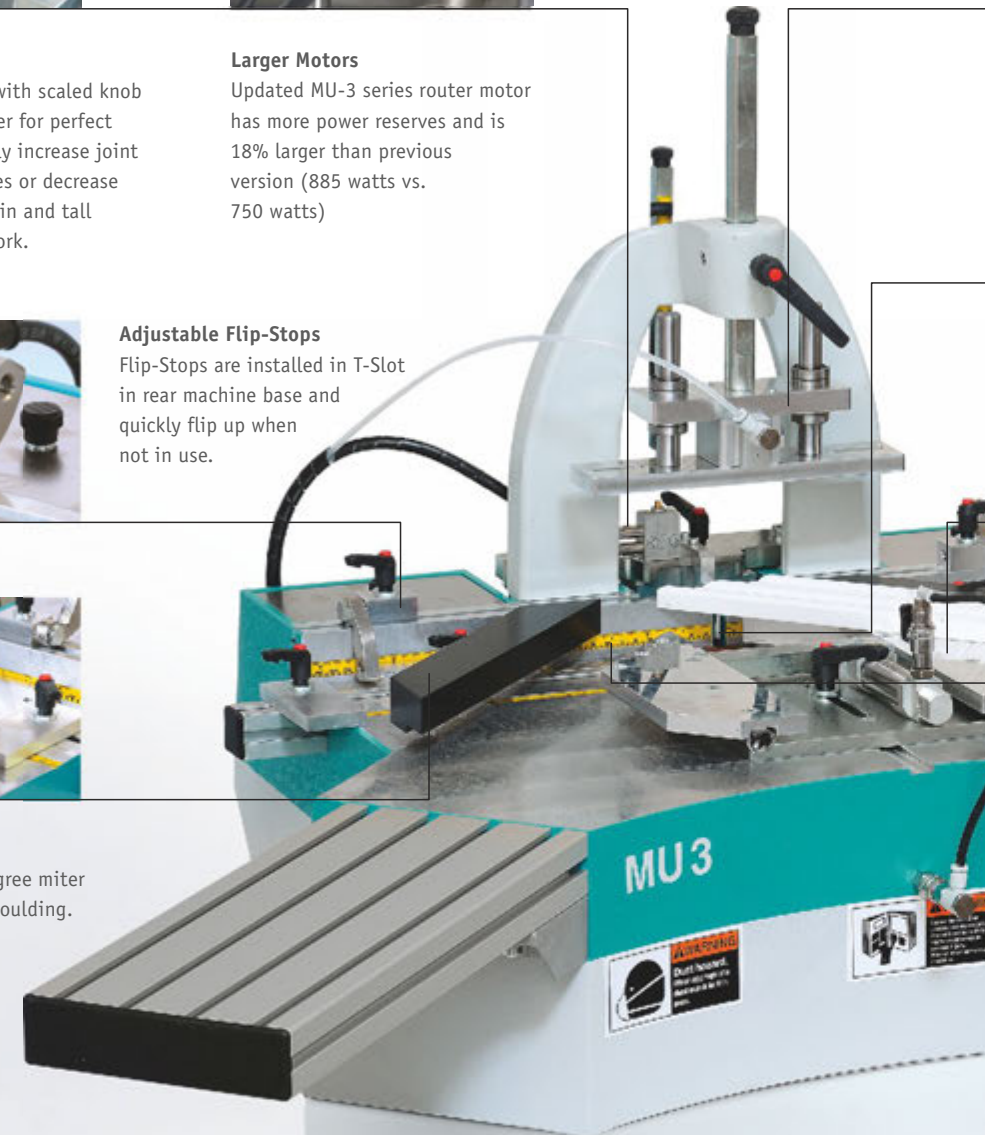
Adjustable Flip-Stops

Flip-Stops are installed in T-Slot in rear machine base and quickly flip up when not in use.



L & R Shutter Fences

Shutter Fences for 45 degree miter joints in shutter frame moulding. Inside edge of frame is placed against black reference block.





Vertical Pressure Plate

Oversized aluminum pressure plate with dual guide rods and linear bushings accommodates a wide range of moulding sizes for safe and precise routing operation.



Center Line Locator

Precise center line locator is factory installed and clearly indicates center of keyway



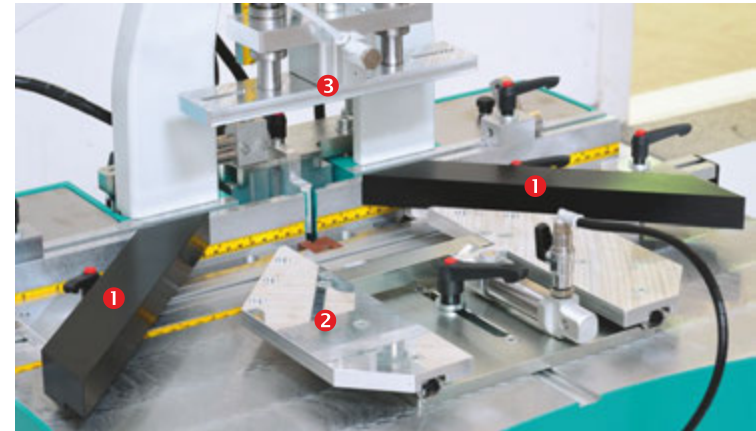
Dual Tape Scales

Tape scales are recessed in machine table and in both sides of back fence to accurately set square-stops.

HOFFMANN Shutter Frame Fixture Kit

HOFFMANN Shutter Frame Fixture Kit for MU3-P is factory installed and consists of:

1. Left and right hand adjustable 45-degree fence plates with recessed support block and locking levers
2. Center Plate with pneumatic cylinder and left and right aluminum pressure bars
3. Larger vertical material clamping plate with dual guide rods and precision bushings

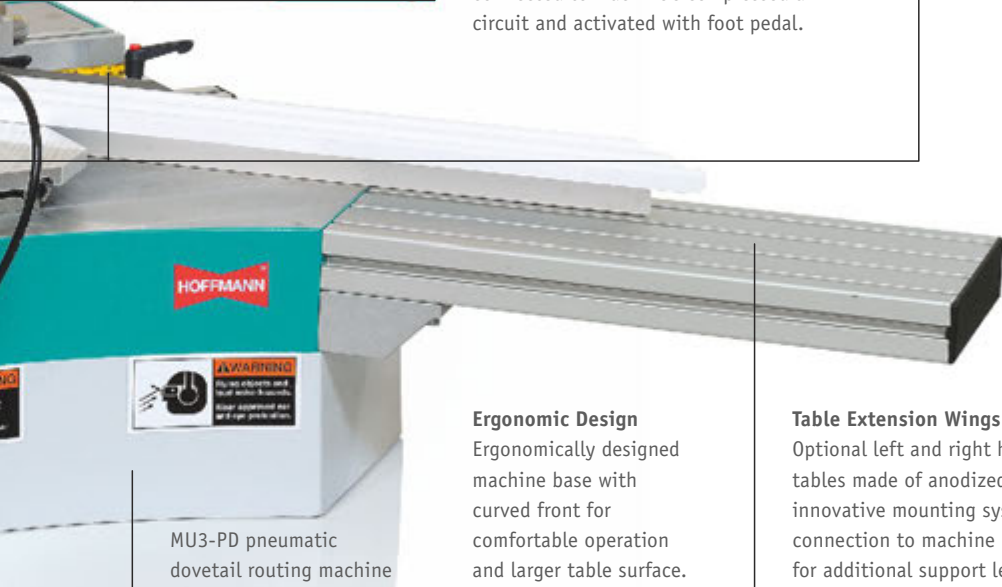


Right side shutter fence plate shown registered against flip-stop



Shutter Frame Clamping System

Designed to securely hold frame moulding against Shutter Fences to assure accurately routed keyways. Dual pressure plates on linear guide carriages are controlled by pneumatic cylinder which is connected to machine's compressed air circuit and activated with foot pedal.



Ergonomic Design

Ergonomically designed machine base with curved front for comfortable operation and larger table surface.

Table Extension Wings

Optional left and right hand material support tables made of anodized aluminum. New, innovative mounting system for fast and strong connection to machine base without the need for additional support legs.

MU3-PD pneumatic dovetail routing machine

MU 3

Manual Dovetail Routing Machine



Note: Pneumatically operated HOFFMANN Shutter Frame Fixture Kit cannot be installed on manual routing machines.

Professional level, manually operated dovetail routing machine to rout a single dovetail keyway with each machining cycle. Heavy cast aluminum construction with large, ergonomically shaped table surface, precision linear bearings and galvanized steel motor carriage with integrated motor fine adjustment.
For Dovetail Key sizes W-0, W-1, W-2, W-3 (W-4 with optional larger motor).

Operation

The keyway location is adjusted by positioning the guided center fence plate on the machine table; the keyway length (routing height) is adjusted by setting a height-stop rod to the desired setting.

Pulling the main lever downward starts the machining cycle:

- > Padded hold-down plate secures workpiece on machine table and motor is switched on
- > Continued pulling advances the router head until pre-set height is reached
 - > Releasing the lever returns the motor to its home position and shuts off motor
 - > Padded hold-down plate releases workpiece

Technical data

Power Supply	120 volts – 7.4 Amps
Motor	885 Watt motor with double front bearing
Motor speed	35,000 rpm at idle
Collet size	1/4"
Motor carriage guides	20mm diameter guide rods, precision ground
Operation	manual – dual action design
Max. routing height	3 3/8" – 85mm
Max. moulding height	5 1/8" – 150mm
Dust collection port	2" – 50mm diameter
Installed router bit	W-2, solid carbide
Available router bits	W-0, W-1, W-2, W-3 (W-4 with optional larger motor)
Dimensions W/D/H	29 1/8" x 25 5/8" x 32 3/4" (without optional table extensions)
Weight	70.4 lbs.
Order Number	W1031000



X-18

Manual Dovetail Routing Machine



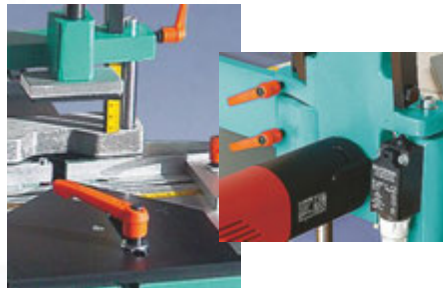
Note: Pneumatically operated HOFFMANN Shutter Frame Fixture Kit cannot be installed on manual routing machines.

Entry level, manual dovetail routing machine to rout a single dovetail keyway with each machining cycle. For Dovetail Keys sizes W-0, W-1, W-2 and W-3.

Funktion

The keyway location is adjusted with the guided center fence plate on the machine table. Pulling the hand lever secures the moulding on the table and raises the router bit to the pre-set height. Releasing the handle lowers the motors carriage back below the table and the material is removed. An electric limit switch automatically switches the motor on and off.

The X-18 manual dovetail routing machine is a light weight, more portable model with an open base design. The machine features a 530 watt router motor and a cast-aluminum router carriage. Due to its limited routing height of 2 1/4" this machine is not suitable for most floater frames or shadow box material.



Technical data

Power supply	120 volts – 4.4 Amps.
Motor / Motor speed	530 w / 29,000 rpm
Operation	Manual
Max. routing height	2 1/4"
Max. material height	3 1/2"
Available router bits	W-0, W-1, W-2, W-3
Dimensions W/D/H	19 3/4" / 21 1/4" / 30 1/4"
Weight	38 lbs.
Order Number	W 100 0180

X-20

Manual Dovetail Routing Machine



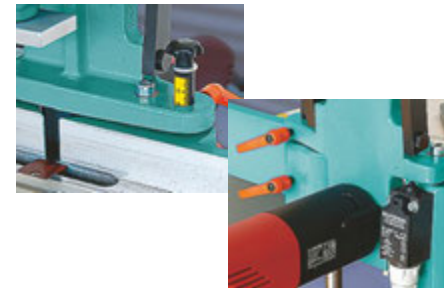
Note: Pneumatically operated HOFFMANN Shutter Frame Fixture Kit cannot be installed on manual routing machines.

Entry level, manual dovetail routing machine to rout a single dovetail keyway with each machining cycle. For Dovetail Keys sizes W-0, W-1, W-2 and W-3.

Funktion

The keyway location is adjusted with the guided center fence plate on the machine table. Pulling the hand lever secures the moulding on the table and raises the router bit to the pre-set height. Releasing the handle lowers the motors carriage back below the table and the material is removed. An electric limit switch automatically switches the motor on and off.

The X-20 is a slightly larger dovetail routing machine with manual operation. Compared to the X-18, the routing height and the maximum material capacity are larger, the aluminum table top is mounted on a three sided closed steel base.



Technical data

Power supply	120 volts – 4.4 Amps.
Motor / Motor speed	530 w / 29,000 rpm
Operation	Manual
Max. routing height	3"
Max. material height	4"
Available router bits	W-0, W-1, W-2, W-3
Dimensions W/D/H	23 5/8" / 21 1/4" / 30 1/4"
Weight	42 lbs.
Order Number	W 100 0200

PU 2

Pneumatic Dovetail Routing Machine with factory-installed Fixtures for Plantation Shutter Frames



Freestanding, production-duty dovetail routing machine to rout a single dovetail keyway with each machining cycle. Shutter specific fixture kit is factory installed and connected to machine's pneumatic circuit. Left and right hand fences are designed to reference against the inside step of shutter frame moulding, assuring perfectly aligned inside corners for consistent gaps between frames and panels. Heavy cast aluminum machine construction with large, ergonomically shaped table surface, precision linear bearings and galvanized steel motor carriage with integrated motor fine adjustment. For Dovetail Key sizes W-0, W-1, W-2, W-3 and W-4.

Operation

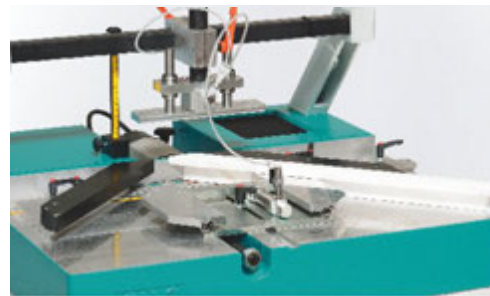
The keyway locations are adjusted by setting the left and right 45-degree Shutter Fences with the aid of recessed tape scales. Multiple locations can be pre-set with flip-stops.

The keyway length (routing height) is adjusted by setting a height-stop rod to the desired setting. Pressing the pneumatic foot pedal activates the machining cycle:

- > Pneumatic vertical and horizontal clamps secure workpiece and motor is switched on
- > Router head advances until pre-set height is reached
- > Router head returns to home position and motor is switched off
- > Pneumatic clamps release workpiece

Technical Data

Power supply	120 volts - 8.3 Amps.
Motor / Motor speed	1,000 w / 35,000 rpm
Motor / Motor speed HF	1,000 w / 18,000 rpm
Air supply	90 psi
Collet size	1/4"
Max. routing height	4"
Max. material height	5 3/4"
Installed router bit	W-2, solid carbide
Available router bits	W-1, W-2, W-3, W-4
Dust collection port	4" diameter
Dimensions W/D/H	31 1/2" / 29 1/2" / 59"
Weight	262 lbs.
Order number - PU 2	W 107 0000



Standard PU 2 & PU 2-HF

Pneumatic Dovetail Routing Machine



Production-duty, freestanding dovetail routing machine with solid cast aluminum table and large work surface at comfortable working height. Machine is designed to rout a single dovetail keyway with each machining cycle. For Dovetail Keys sizes W-1, W-2, W-3 and W-4.

PU2-HF model is equipped with one high-frequency router motor for highest production levels.

Function

The keyway location is adjusted by positioning the guided center fence plate on the machine table. Pressing the pneumatic foot pedal activates the machining cycle:

- pneumatic clamp secures workpiece on machine table & motor is switched on
- router head advances until the pre-set height position is reached
- router head returns to home position & motor is switched off
- pneumatic clamp releases work piece



Machine components
 1. Router motor
 2. Height adjustment

Technical Data

Power supply	120 volts - 8.3 Amps.
Motor / Motor speed	1,000 w / 35,000 rpm
Motor / Motor speed HF	1,000 w / 18,000 rpm
Air supply	90 psi
Collet size	1/4"
Max. routing height	4"
Max. material height	5 3/4"
Installed router bit	W-2, solid carbide
Available router bits	W-1, W-2, W-3, W-4
Dust collection port	4" diameter
Dimensions W/D/H	31 1/2" / 29 1/2" / 59"
Weight	262 lbs.
Order number - PU 2	W 107 0000
Order number - PU 2-HF	W 107 6001

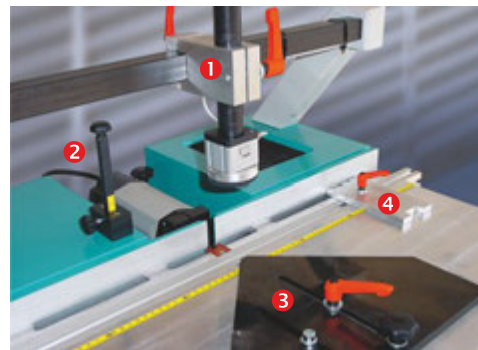


Table view
 1. Workpiece clamp
 2. Routing depth adjustment
 3. Center fence plate 45°
 4. Square stop



PP 2

Pneumatic Dovetail Routing Machine with factory-installed Fixtures for Plantation Shutter Frames



Freestanding, production-duty dovetail routing machine to rout a single dovetail keyway into two workpieces with each machining cycle. Dual motor design doubles output compared to single head models. Shutter specific fixture kit is factory installed and connected to machine's pneumatic circuit. Left and right hand fences are designed to reference against the inside step of shutter frame moulding, assuring perfectly aligned inside corners for consistent gaps between frames and panels. Heavy cast aluminum machine construction with large, ergonomically shaped table surface, precision linear bearings and galvanized steel motor carriage with integrated motor fine adjustment. For Dovetail Key sizes W-0, W-1, W-2, W-3 and W-4.

Operation

The keyway locations are adjusted by setting the left and right 45-degree Shutter Fences with the aid of recessed tape scales. Multiple locations can be preset with flip-stops. The keyway length (routing height) is adjusted by setting a height-stop rod to the desired setting.

Pressing the pneumatic foot pedal activates the machining cycle:

- > Pneumatic vertical and horizontal clamps secure both workpieces and motors are switched on
- > Router heads advance until pre-set height is reached
- > Router heads return to home position and motors are switched off
- > Pneumatic clamps release workpieces

Technical Data

Power supply	120 volts - 17 Amps.
Motor / Motor speed	2x 1,000 w / 35,000 rpm
Motor / Motor speed HF	2x 1,000 w / 18,000 rpm
Air supply	90 psi
Collet size	1/4"
Max. routing height	4"
Max. material height	5 3/4"
Installed router bits	2x W-2, solid carbide
Available router bits	W-1, W-2, W-3, W-4
Dust collection port	4" diameter
Dimensions W/D/H	39 3/8" / 29 1/2" / 59"
Weight	348 lbs.
Order number - PP 2	W 108 0000



Standard PP 2 & PP 2-HF

Pneumatic Dovetail Routing Machine



Production-duty, freestanding dovetail routing machine with solid cast aluminum table and large work surface at comfortable working height. Machine is designed to rout a single dovetail keyway into two workpieces with each machining cycle. For Dovetail Keys sizes W-1, W-2, W-3 and W-4.

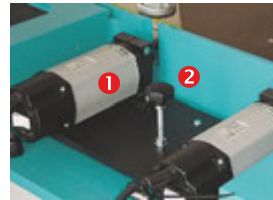
PP2-HF model is equipped with two high-frequency router motors for highest production levels.

Function

The keyway location is adjusted by positioning the guided center fence plate on the machine table.

Pressing the pneumatic foot pedal activates the machining cycle:

- pneumatic clamps secure workpieces on machine table & motors are switched on
- router heads advance until the pre-set height position is reached
- router heads return to home position & motors are switched off
- pneumatic clamps release work piece



Motor detail
1. Router motors
2. Height adjustment

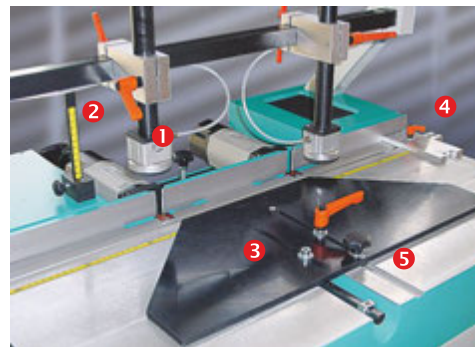


Table view
1. Workpiece clamp
2. Routing depth adjustment
3. Center fence plate 45°
4. Square stop
5. Aluminum table

Technical Data

Power supply	120 volts - 17 Amps.
Motor / Motor speed	2x 1,000 w / 35,000 rpm
Motor / Motor speed HF	2x 1,000 w / 18,000 rpm
Air supply	90 psi
Collet size	1/4"
Max. routing height	4"
Max. material height	5 3/4"
Installed router bits	2x W-2, solid carbide
Available router bits	W-1, W-2, W-3,W-4
Dust collection port	4" diameter
Dimensions W/D/H	39 3/8" / 29 1/2" / 59"
Weight	348 lbs.
Order number - PP 2	W 108 0000
Order number - PP 2-HF	W 108 8000



PP 2-NCF

Programmable Dovetail Routing Machine



HOFFMANN PP2-NCF can be equipped with Fixtures for Plantation Shutter Frames

The PP2- NCF is a fully programmable, numerically controlled dovetail routing machine for mid to high level frame production. This machine is capable routing one, two or three keyways per part in two parts simultaneously. Different routing heights can be programmed for each of the three keyways to take advantage of thicker portions in profiled moulding. An intuitive touch-screen allows the operator to quickly enter desired keyway positions or to recall up to 7,500 previously stored profiles. With the optional hand-held scanner a bar or QR code can be scanned from a worksheet or a label to assure the exact same Key locations and routing heights every time.

Function

Two high-speed router motors are mounted on a precision ball-and-screw spindle for fast and accurate lateral positioning via servo motor. The routing height (upward travel of router motors) is also electronically controlled to within 0.5mm. The operator can select to rout only one, two or three dovetail keyways into each miter face and a different routing height can be programmed for each keyway location. Keyway locations and routing heights for a given moulding profile can be stored with the unique moulding number for later recall.

The machine is equipped with a foot switch to activate the material clamps. Upon depressing of the switch, the following routing sequence is initiated by pressing a START button on the control panel:

- motors are switched on and router heads advance up until the pre-set height position is reached, then return below table
- router heads move to second or third location and repeat routing sequence
- pneumatic clamps release workpieces



Technical Data

Power Supply	230 volts, 3 phase, 4 KW
Air Supply	90 psi – 6 bar
Router Motor	2 x 1,000 watt– 30,000 rpm
Router head collet	1/4"
Operation	PLC controlled
Display	5.7" color touch screen
Max. moulding width	5"

Max. moulding thickness	5"
Max. routing vertical travel	4"
Available router bits	W-0, W-1, W-2, W-3
Dimensions W/D/H	47 1/4" / 51 1/8" / 59"
Weight	528 lbs.
Order Number	W 108 7020

PP 2-NC

Automatic Dovetail Routing and Dowel Boring Machine



HOFFMANN PP2-NC can be equipped with Fixtures for Plantation Shutter Frames

Versatile, numerically controlled routing and drilling machine for the production of frame and sash joints in windows and doors, overhead glazing systems, curtain walls, sunrooms, conservatories as well as handrails, custom trim moulding and other larger dimension stock. Dovetail keyways are routed and dowel holes are drilled in one machining cycle. Keyways can be routed from left to right, right to left, bottom to top and top to bottom or any combination thereof. Dowel hole locations are programmable across a wide range of parameters. Miter joints from 0 – 67.5 degrees as well as 90 degree square joints can be processed with ease – custom fence plates and fixtures are available per customers’ requirements.

Function

All relevant data is entered either directly on a color touch-screen or downloaded via USB port. Up to 100 different routing and drilling programs can be saved for quick retrieval. Two workpieces are placed on the machine table and processed simultaneously.

Pressing the foot pedal activates the machining cycle:

- pneumatic clamps secure workpieces on machine table & motors are switched on
- router heads advance until pre-set positions are reached, then return to home positions
- boring heads advance until pre-set positions are reached, then return to home positions
- motors are switched off
- pneumatic clamps release workpieces

Technical Data

Power Supply	230 volts, 3 phase, 4 KW
Air Supply	90 psi – 6 bar
Router Motor	2 x 1,000 watt– 30,000 rpm
Drilling Motor	2 x 1,000 watt – 10,000 rpm
Router head collet	1/4"
Drilling head collet	8mm
Operation	PLC controlled
Display	5.7" color touch screen
Max. horizontal travel	8 1/4" (210mm) L+R

Max. material height	5 1/2" (140mm)
Max. boring depth	1 3/16" (30mm)
Available router bits	W-1, W-2, W-3
Available drill bits	8mm, 10mm, 12mm or per customers’ requirements
Dimensions W/D/H	47 1/4" / 51 1/8" / 59"
Weight	564 lbs.
Order Number	W 108 7010



MS 35-SF

Production Double Miter Saw with Dovetail Routing Stations



The MS35SF Double Miter Saw is designed to simultaneously cut a left and right hand miter with each machining cycle. Upon cutting the miters, the saw blades retract and the router carriage moves upward routing one or two dovetail keyways in the mitered ends. The heavy-duty design of the saw heads and the routing carriage, precision machined components as well as the use of industrial quality carbide tipped saw blades assures perfect cuts with no burrs or tear out, even on difficult to process material such as foil or paper wrapped MDF moulding. The location of each keyway as well as the routing height is fully adjustable to suit a wide range of applications. In addition, the MS35SF can also be used as a production double miter saw for wood, non-ferrous metals and plastics by switching off the routing operation.

Function

- > Operator initiates machining cycle by pressing start button on front panel.
- > Pneumatic hold-down clamps secure material on machine table.
- > Clear safety shield is lowered to cover the sawing and routing areas
- > Saw blades cut through material and retract back up to their home position.
- > Both sides of the machine table move approx. 16" apart to create a space for the routing heads.
- > Router heads move up to rout first and second Key location.
- > The tables move back to the center of the machine, pneumatic clamps release the material and safety shield retracts for ease removal of finished product.

The outfeed table is equipped with a manually adjusted stop with LCD read-out; length measurements can be displayed in fractional inches, decimal inches or millimeters. Custom-made moulding fixtures and brackets are available for special cutting applications (e.g. compound miter joints, etc.)

Technical Data

Power	230 Volts, 3 P, 20 Amps.
Air Supply	90 psi
Router heads	2 x 500 Watt - 24,000 rpm,
Saw heads	2 x 2 1/2 HP, 3,470 rpm
Saw blades	350mm diameter, carbide tipped
Router bits	W-0, W-1, W-2, W-3
Cutting capacity	3 1/2" width
	3 1/2" thickness (90 x 90mm)
Max. routing height	2 3/4" (70mm)

Cutting angle	45 degrees, fixed
Minimum length	3" (75mm)
Maximum length	96", longer lengths optional
Controls	electronic operation with PLC
Dust collection	2 x ports, 4.7" diameter, 400cfm
Dimensions W/D/H	58 7/8" / 37 1/2" / 63 3/4"
	with table extensions 220"
Weight	1,496 lbs.
Order Number	M 107 0000



Safety and Reliability

- > Clear safety cover shields potentially dangerous areas during machining cycle.
- > Individual electronic motor brakes reduce coasting time of saw blades.
- > Pneumatic hold-down clamps can be activated manually via foot pedal or automatically by pressing start button. Clamps are controlled by low-pressure safety circuit.
- > Clamps can be adjusted for most secure clamping pressure on varying moulding surfaces.



Optional ELA-2 automatic length stop system



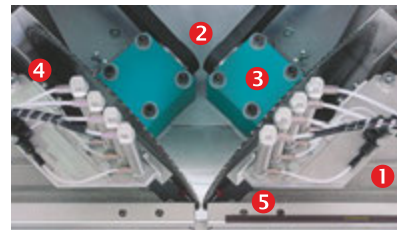
Router motor with 90° gear head



Cutting area (with safety cover raised up for clarity)

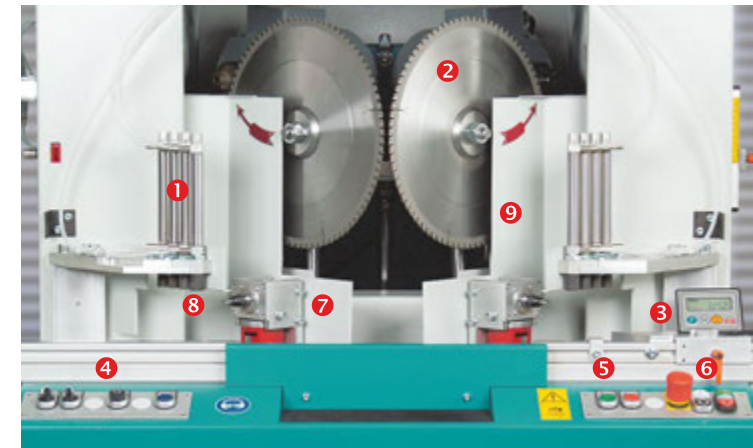
Saw Heads

1. Aluminum infeed and outfeed table
2. Drive belts
3. Saw spindle in solid steel bearing block
4. Dust extraction channel
5. Chip breaker (replaceable table insert)



- > Machine features Set-Up mode to automatically disable saw and router motors. Set-Up mode is used to change blades and router bits and for cleaning and adjustment procedures.
- > Keyway locations as well as height of router travel is controlled with proximity sensors for long-term reliability.
- > Industrial-grade PLC unit is used to control all safety and operating functions of the machine.
- > Front cover is equipped with electronic interlock sensor to shut-off machine if cover is opened.

Machine Details



1. Pneumatic material clamping cylinders with non-marring bumper (8 total)
2. Carbide-tipped, industrial quality saw blades
3. Length stop with digital display
4. Left operator panel
5. Right operator panel
6. Emergency-Stop button
7. High-speed router motors with integrated gear-heads
8. Solid carbide router bits (W-1, W-2, W-3)
9. Chip shield and dust extraction channel

MS 40-SF

Production Double Miter Saw with Dovetail Routing Stations



Building on the success of the popular MS35SF, the MS40SF Double Miter Saw features larger diameter saw blades (400mm instead of 350mm) and modified fence design, resulting in an increase of the saw's cutting capacity to 4" width. The machine is ideal for companies that offer wider profiles in their products, for example large picture and mirror frames, architectural millwork, custom door manufactures, etc. The machine is designed to simultaneously cut a left and right hand miter with each machining cycle. The heavy-duty design of the saw heads and the routing carriage, precision machined components as well as the use of industrial quality carbide tipped saw blades assures perfect cuts with no burrs or tear out, even on difficult to process material. In addition, the MS40SF can also be used as a production double miter saw for wood, non-ferrous metals and plastics by switching off the routing operation.

Function

- > Operator initiates machining cycle by pressing start button on front panel.
- > Pneumatic hold-down clamps secure material on machine table.
- > Clear safety shield is lowered to cover the sawing and routing areas
- > Saw blades cut through material and retract back up to their home position.
- > Both sides of the machine table move approx. 16" apart to create a space for the routing heads.
- > Router heads move up to rout first and second Key location.
- > The tables move back to the center of the machine, pneumatic clamps release the material and safety shield retracts for ease removal of finished product.

The outfeed table is equipped with a manually adjusted stop with LCD read-out; length measurements can be displayed in fractional inches, decimal inches or millimeters. Custom-made moulding fixtures and brackets are available for special cutting applications (e.g. compound miter joints, etc.)

Technical Data

Power	230 Volts, 3 P, 20 Amps.
Air Supply	90 psi
Router heads	2 x 500 Watt - 24,000 rpm,
Saw heads	2 x 2 1/2 HP, 3,470 rpm
Saw blades	400mm diameter, carbide tipped
Router bits	W-0, W-1, W-2, W-3
Cutting capacity	4" width
	3 1/2" thickness (100 x 90mm)
Max. routing height	2 3/4" (70mm)

Cutting angle	45 degrees, fixed
Minimum length	3" (75mm)
Maximum length	96", longer lengths optional
Controls	electronic operation with PLC
Dust collection	2 x ports, 4.7" diameter, 400cfm
Dimensions W/D/H	58 7/8" / 37 1/2" / 63 3/4"
	with table extensions 220"
Weight	1,565 lbs.
Order Number	M 107 0001

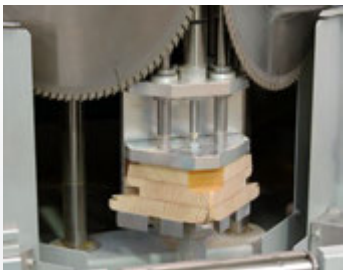


(shown with optional heavy roller tables and ELA-2 positioning system)

Tight and accurate miter joints have always been a hallmark of high-end woodworking products. From furniture and cabinets, to custom interior millwork and window and door construction, miter joints are an aesthetically pleasing, durable and efficient means of assembling an ever increasing range of woodworking joints. Hoffmann machines are designed and built with one goal in mind – to produce the best and most reliable miter joints in the industry.



Pneumatic Clamps



Pneumatic clamp secures center scrap piece during cutting operation to avoid tear-out. Waste parts are automatically ejected forward into large scrap chute.

Length Positioning



- > Optional automated length positioning system
- > Available with standard-duty aluminum tables or heavy-duty roller table tops
- > Adjustable miter stop with ball bearing guide
- > Standard measuring range 10 ft. --- longer systems available



MS 40-SF with Options

MS40SF double miter saw with heavy-duty infeed and outfeed tables with roller tops, automatic length and keyway positioning and barcode scanner.



MS 40-SF-NC

Production Double Miter Saw with Dovetail Routing Stations



Hoffmann MS 40-SF-NC is a numerically controlled double miter saw for higher levels of automation. All adjustments including up to three dovetail keyway locations per side (with different keyway lengths) as well the finished part length are controlled by a central PLC.

Data is entered manually on a touchscreen, via upload from a USB stick or by scanning a bar or QR code on a worksheet. Hundreds of frequently used profiles can be programmed for fast recall and to assure that keyway locations will fit perfectly with previously produced parts.

Function

- > Operator initiates machining cycle by pressing start button on front panel.
- > Pneumatic hold-down clamps secure material on machine table.
- > Clear safety shield is lowered to cover the sawing and routing areas
- > Saw blades cut through material and retract back up to their home position.
- > Both sides of the machine table move approx. 16" apart to create a space for the routing heads.
- > Router heads move up to rout first and second Key location.
- > The tables move back to the center of the machine, pneumatic clamps release the material and safety shield retracts for ease removal of finished product.

Technical Data

Power	230 Volts, 3 P, 20 Amps.
Air Supply	90 psi
Router heads	2 x 500 Watt - 24,000 rpm,
Saw heads	2 x 2 1/2 HP, 3,470 rpm
Saw blades	400mm diameter, carbide tipped
Router bits	W-0, W-1, W-2, W-3
Cutting capacity	4" width
	3 1/2" thickness (100 x 90mm)
Max. routing height	2 3/4" (70mm)

Cutting angle	45 degrees, fixed
Minimum length	3" (75mm)
Maximum length	96", longer lengths optional
Controls	electronic operation with PLC
Dust collection	2 x ports, 4.7" diameter, 400cfm
Dimensions W/D/H	58 7/8" / 37 1/2" / 63 3/4"
	with table extensions 220"
Weight	1,565 lbs.
Order Number	M 107 0001

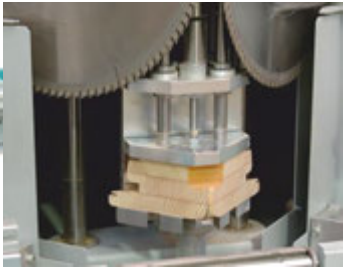


(shown with optional heavy roller tables and ELA-2 positioning system)

Tight and accurate frame corners have always been the hallmark of a high-end frame job. No matter how elegant the moulding, how perfectly cut and matched the miter joints and how beautiful the artwork itself – if the corners are open or misaligned, the whole picture suffers.

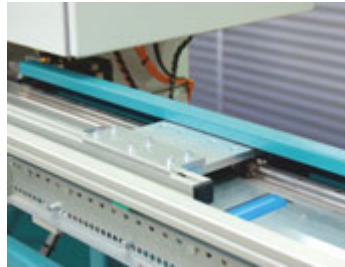
Hoffmann has been dedicated to perfect joints in the woodworking and framing industry for over 25 years; we have the experience, dedication, know-how and equipment to produce the best and most reliable miter joints in the industry.

Pneumatic Clamp



Pneumatic clamp secures center scrap piece during cutting operation to avoid tear-out. Waste parts are automatically ejected forward into large scrap chute.

Length Positioning



- > Optional automated length positioning system
- > Available with standard-duty aluminum tables or heavy-duty roller table tops
- > Adjustable miter stop with ball bearing guide
- > Standard measuring range 10 ft. --- longer systems available

User Interface



- > Optional color screen displays full range of data
- > Part lengths, keyway locations and routing heights shown
- > Can display moulding profile number and image of moulding style
- > Scanning software customized to meet client's needs

Automation



- > Optional automated keyway adjustment with servo motors
- > Up to three keyway locations with different routing heights
- > Data entry via USP connection or barcode scanner

Scanning



- > Optional, hand-held bar and QR code scanner
- > Codes can be scanned from worksheets or material labels
- > Drastically reduces entry error and increases productivity



MS 40-SF with Options

MS40SF double miter saw with heavy-duty infeed and outfeed tables with roller tops, automatic length and keyway positioning and barcode scanner.



MS 35 Production Double Miter Saw

Double Miter Saw



The MS35 Double Miter Saw is designed to simultaneously cut one left and one right hand miter with each machining cycle. Accurate, repeatable miter cuts are achieved in a variety of materials, including hard and softwoods, wood-related materials (MDF, plywood, particleboard), plastics and non-ferrous metals such as aluminum. The heavy-duty design of the saw heads and precision machined components as well as the use of industrial quality carbide tipped saw blades assures perfect cuts with no burrs or tear out. The ideal double miter saw for small and large shops when accurate and efficient miter cutting is required.

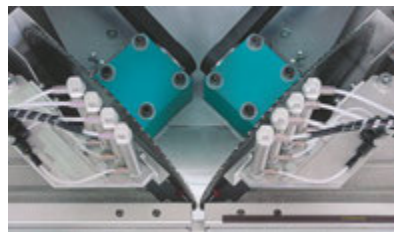
Function

- > Operator initiates machining cycle by pressing start button on front panel.
- > Pneumatic hold-down clamps secure material on machine table.
- > Clear safety shield is lowered to cover the sawing areas.
- > Saw blades cut through material and retract back up to their home position.
- > Pneumatic clamps release the material and safety shield retracts for ease removal of finished product.

The outfeed table is equipped with a manually adjusted stop with LCD read-out; length measurements can be displayed in fractional inches, decimal inches or millimeters.

Technical Data

Power	230 Volts, 3 P, 20 Amps.
Air Supply	90 psi
Saw heads	2 x 2 1/2 HP, 3,470 rpm
Saw blades	350mm diameter, carbide tipped
Cutting capacity	3 1/2" width
	3 1/2" thickness (90 x 90mm)
Cutting angle	45 degrees, fixed
Minimum length	3" (75mm)
Maximum length	96", longer lengths optional
Controls	electronic operation with PLC
Dust collection	2 x ports, 4.7" diameter, 600cfm
Dimensions W/D/H	58 7/8" / 37 1/2" / 63 3/4"
	with table extensions 220"
Weight	1,364 lbs.
Order Number	M 105 0000



1. Digital length stop system
2. Table fence
3. Miter stop
4. Control panel



MS 40 Production Double Miter Saw

Double Miter Saw



The MS40 Double Miter Saw is designed to simultaneously cut one left and one right hand miter with each machining cycle. Accurate, repeatable miter cuts are achieved in a variety of materials, including hard and softwoods, wood-related materials (MDF, plywood, particleboard), plastics and non-ferrous metals such as aluminum. The heavy-duty design of the saw heads and precision machined components as well as the use of industrial quality carbide tipped saw blades assures perfect cuts with no burrs or tear out. The ideal double miter saw for small and large shops when accurate and efficient miter cutting is required.

Function

- > Operator initiates machining cycle by pressing start button on front panel.
- > Pneumatic hold-down clamps secure material on machine table.
- > Clear safety shield is lowered to cover the sawing areas.
- > Saw blades cut through material and retract back up to their home position.
- > Pneumatic clamps release the material and safety shield retracts for ease removal of finished product.

The outfeed table is equipped with a manually adjusted stop with LCD read-out; length measurements can be displayed in fractional inches, decimal inches or millimeters.

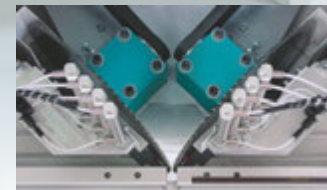
Technical Data

Power	230 Volts, 3 P, 20 Amps.
Air Supply	90 psi
Saw heads	2 x 2 1/2 HP, 3,470 rpm
Saw blades	350mm diameter, carbide tipped
Cutting capacity	4" width 3 1/2" thickness (102 x 90mm)
Cutting angle	45 degrees, fixed
Minimum length	3" (75mm)

Maximum length	96", longer lengths optional
Controls	electronic operation with PLC
Dust collection	2 x ports, 4.7" diameter, 600cfm
Dimensions W/D/H	58 7/8" / 37 1/2" / 63 3/4" with table extensions 220"
Weight	1,364 lbs.
Order Number	M 106 0000



Optional ELA-2 automatic length stop system



1. Digital length stop system
2. Table fence
3. Miter stop
4. Control panel

MX 5 NC

Double-End Miter Saw with Dovetail Routing and Dowel Boring Stations



The numerically controlled MX 5 NC is the perfect choice for many production environments including furniture and cabinet production, plantation shutter manufacturing, window and door facilities, casing and brick mold cutting, post and beam designs, curtain walls and many more. The backbone of the machine is a heavy-duty steel base frame with precision-ground mounting surfaces. The right hand saw/routing station is equipped with sealed linear bearing carriages for trouble-free operation in dusty environments. The metal blade guards are self-closing and all safety features meet strict European safety guidelines. The user friendly control panel allows the operator to enter material cutting lengths, keyway lengths and locations and dowel hole locations on a large touch-screen. Frequently used dimensions are saved in memory or downloaded via USB ports. Cutting angles can be adjusted from +67°/0°/-45° and automatic angle positioning is one of many options available. MX 5 NC can process parts for W-1, W-2 and W-3 Dovetail Keys and 6mm, 8mm and 10mm dowels.

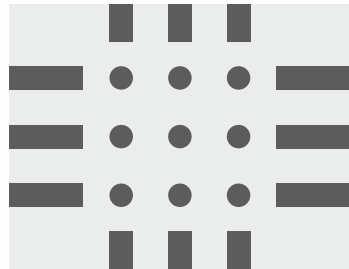
Technical Data

Power Supply	230 volts, 3 phase, 7.4 KW
Air supply	90 psi – 6 bar
Router heads / Boring heads	2 x 750 Watt / 2 x 750 watt
Saw heads	2 x 2 1/2 HP, 3,470 rpm
Saw blades	400mm diameter, carbide tipped
Router bits	W-0, W-1, W-2, W-3
Boring bits	6mm, 8mm, 10mm
Boring depth	1 3/16" (30mm)
Cutting capacity	8 1/4 width
	5 1/2" thickness (210mm x 140mm)
Cutting angle	+67°/0°/-45°
Min./Max. cutting length	17" (430mm) / 118" (3000mm)
Controls	NC operation with large touch screen
Dust collection	2 x ports, 4.7" diameter, 400cfm
Dimensions W/D/H	140" / 60" / 40"
Weight	1144 lbs.
Order Number	M 100 0700



You spoke - we listened! The MX-5 was designed in close cooperation with existing and new customers and every effort was made to create a machine capable of covering a wide range of woodworking applications. Now you can cut material to length, cut and drill dowel holes, cut and rout keyways as well as cut, drill and rout in one machining cycle.

Fully adjustable dowel hole & dovetail keyway locations



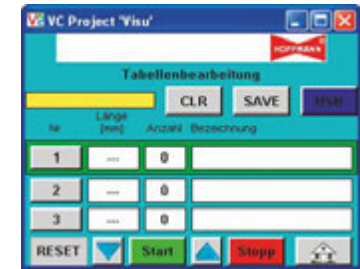
Optional wireless measuring gauge



Barcode reader



Available length optimization software



Looking to improve efficiency in your production?
Miter cutting, hole drilling and keyway routing on both ends simultaneously - MX-5 delivers!



Infeed support table



Intuitive and user friendly operation



Optional short-cutting fence (for material shorter than 600mm)



Automatic angle positioning option

MX 1

Double-End Miter Saw



The MX-1 is a strong and reliable double-end miter saw and the foundation for our MX-series.

The backbone of the machine is a heavy-duty steel base frame with precision-ground mounting surfaces. The right hand saw/routing station is equipped with sealed linear bearing carriages for trouble-free operation in dusty environments. The metal blade guards are self-closing and all safety features meet strict European safety guidelines. All MX-1 machines are manufactured to order and various options and upgrades are available. Examples include larger cutting capacities, automatic material length adjustment, conveyor belts for cutoffs, special fixtures for profiled moulding, etc.

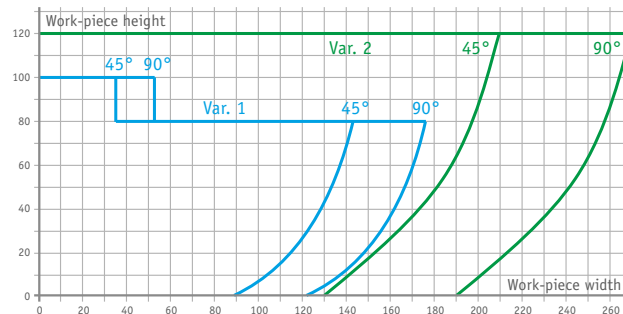
Frequent uses include furniture and cabinet production, plantation shutter manufacturing, window and door facilities, casing and brick mold cutting, post and beam designs and curtain walls, etc.

A misting system for quick-evaporating coolant is available for processing aluminum profiles.



Technical Data

Power Supply	230 volts, 3 phase, 6,6 KW
Air supply	90 psi – 6 bar
Saw heads	2 x 2 1/2 HP, 3,470 rpm
Router heads	2 x 750 Watt
Routing stroke	3" – 75mm
Router bits	W-1, W-2, W-3
Saw blades	330mm diameter, carbide tipped
Cutting capacity	see diagram
Cutting angle	+67°/0°/-45°
Controls	two-hand safety operation
Dust collection	2 x ports, 4.7" diameter, 400cfm
Dimensions W/D/H	140" / 60" / 40"
Weight	1144 lbs.
Order Number	M 100 0500



Cutting Diagram



Shown here with optional high-efficiency cooling system for processing non-ferrous metals e.g. aluminum profiles for windows and doors, curtain wall systems, screen and porch profiles, etc. Special non-toxic coolant evaporates without residue in seconds.

MX 2

Double-End Miter Saw with Dovetail Routing Stations



The MX 2 is used in furniture and cabinet production, plantation shutter manufacturing, window and door facilities, casing and brick mold cutting, post and beam designs and curtain walls, etc. Cutting length, cutting angles and keyway locations are adjusted manually.

The backbone of the machine is a heavy-duty steel base frame with precision-ground mounting surfaces. The right hand saw/routing station is equipped with sealed linear bearing carriages for trouble-free operation in dusty environments. The metal blade guards are self-closing and all safety features meet strict European safety guidelines.

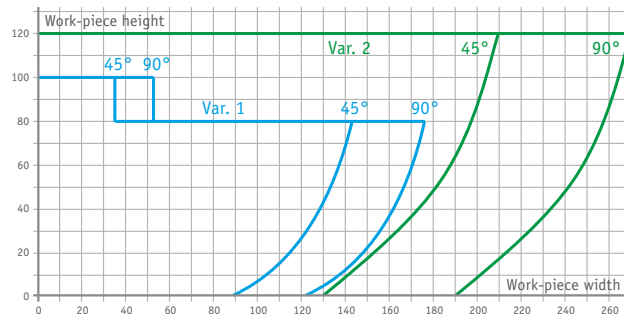
All MX-2 machines are manufactured to order and various options and upgrades are available. Examples include larger cutting capacities, automatic material length adjustment, dual routing heads, conveyor belts for cutoffs, special fixtures for profiled moulding, etc.

This production-duty machine can process parts for W-1, W-2 and W-3 Dovetail Keys with cutting angles ranging from $+67^\circ/0^\circ/-45^\circ$.



Technical Data

Power Supply	230 volts, 3 phase, 6,6 KW
Air supply	90 psi – 6 bar
Saw heads	2 x 2 1/2 HP, 3,470 rpm
Router heads	2 x 750 Watt
Routing stroke	3" – 75mm
Router bits	W-1, W-2, W-3
Saw blades	330mm diameter, carbide tipped
Cutting capacity	see diagram
Cutting angle	$+67^\circ/0^\circ/-45^\circ$
Controls	two-hand safety operation
Dust collection	2 x ports, 4.7" diameter, 400cfm
Dimensions W/D/H	140" / 60" / 40"
Weight	1144 lbs.
Order Number	M 100 0500



Cutting Diagram



Details

1. Infeed table with clamping units
2. Router gearbox
3. Drive motors

MX 3

Double-End Miter Saw with Dowel Boring Stations



The MX 3 is used in woodworking manufacturing facilities where precise miter cutting and dowel hole positioning are essential. The cutting length, cutting angles and hole locations are adjusted manually.

The backbone of the machine is a heavy-duty steel base frame with precision-ground mounting surfaces. The right hand saw/routing station is equipped with sealed linear bearing carriages for trouble-free operation in dusty environments. The metal blade guards are self-closing and all safety features meet strict European safety guidelines.

All MX-3 machines are manufactured to order and various options and upgrades are available. Examples include larger cutting capacities, automatic material length adjustment, dual routing heads, conveyor belts for cutoffs, special fixtures for profiled moulding, etc.

This production-duty machine can process parts for 6mm, 8mm and 10mm dowels with cutting angles ranging from $+67^{\circ}/0^{\circ}/-45^{\circ}$.

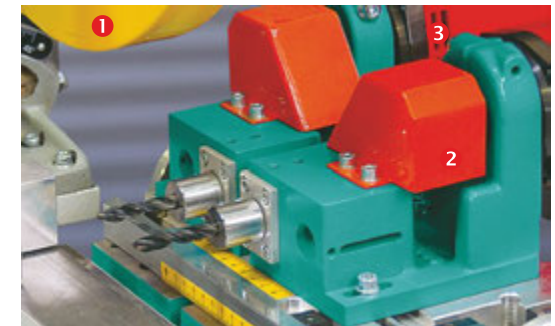


Technical Data

Power Supply	230 volts, 3 phase, 6,6 KW
Air supply	90 psi – 6 bar
Saw heads	2 x 2 1/2 HP, 3,470 rpm
Boring heads	2 x 750 watt
Boring depth	1 3/16" – 30mm
Saw blades	330mm diameter, carbide tipped
Boring bits	6mm, 8mm, 10mm
Cutting capacity	see diagram
Cutting angle	$+67^{\circ}/0^{\circ}/-45^{\circ}$
Controls	two-hand safety operation
Dust collection	2 x ports, 4.7" diameter, 400cfm
Dimensions W/D/H	140" / 60" / 40"
Weight	1144 lbs.
Order Number	M 100 0600



Operator panel with two-hand safety controls



Details

1. Saw head with blade guard

2. drill gearbox
3. Drive motors

Engineering Services and Customer Specific System Solutions

If our standard dovetail routing or sawing/routing combination machines are not the perfect choice for a given application and made-to-order equipment is necessary to meet our customers' needs, we rise to the challenge! Hoffmann Engineering Solutions is a department of the Hoffmann Company whose sole purpose is to design, built and implement customer specific manufacturing systems to the highest standards. Our experience ranges from routing, sawing and cutting to hole drilling and automatic assembly of a variety of products worldwide.

S0 7.174

Sawing and Routing Combination Machine



Designed and built to customer's specifications. For length cutting and dovetail keyway routing of a variety of different profile dimensions.



- > Automatic workpiece length adjustment
- > Servo driven main axis
- > Industrial PLC controls with automated error reporting
- > Flat-bed material loading and staging area
- > Automatic gripper for material feed
- > Custom gripping shoe for 13 different profiles

Workpiece dimensions

width	3/4" – 4 3/4"	(20mm – 120mm)
height	3/8" – 2 3/8"	(10mm – 60mm)
length	15" – 100"	(375mm – 2500mm)

S0 7.165

Sawing and Boring Combination Machine



Designed and manufactured after thorough review of customer's products and current processes. For length cutting and drilling of up to 18" (460mm) wide architectural door jambs.



- > To process side jambs as well as header parts
- > Automatic workpiece length adjustment
- > Two automatically positioned stops for header parts
- > Industrial PLC controls with automated error reporting
- > Saw head tilting range 90° - 45° on both sides
- > Two 15-bit drilling heads installed
- > Automatic cut-off removal

Workpiece dimensions

Max. jamb width	18"	(460mm)
max. material length	110"	(2800mm)

S0 7.211

Custom-Made Double Miter Saw with Integr. Boring Heads



Built to process wide and heavy wood boards (casket components) Capable of cutting and drilling side and end panels with compound angle cuts.



- > Automatic, four-axis angle adjustments for saw heads
- > Servo-driven length adjustment
- > Additional servo axis for cross panels
- > Finished material removal with conveyors
- > Industrial PLC controls with automated error reporting
- > Operator control panel with 10" color touch-screen
- > Software designed to customer's requirements

Workpiece dimensions

length	10" – 86 1/2"	(250 – 2200mm)
width	2" – 25 1/2"	(50mm – 650mm)

Hoffmann Machine Catalogs

Designed to Perform



Dovetail Joining System

Full range of Hoffmann dovetail routing machines, from smaller bench-top units to freestanding multi-head production machines.



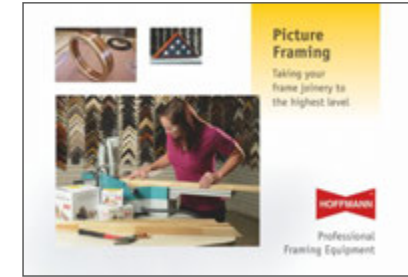
Beaded Face Frame Equipment

Foot operated and automatic notching machines with manual and automatic positioning systems for every production level.



MOBIL Edgbanding Press

Heated, pneumatic press for solid wood edges in 8, 10 and 12 foot versions.



Picture Framing

Professional dovetail joining equipment and accessories for custom picture framers



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