



Picture Framing

Taking your
frame joinery to
the highest level



Professional
Framing Equipment

The Hoffmann Dovetail Joining System

The Key to perfect frames

Your task

Creating picture frames with tight, perfectly aligned and strong corners every single time without the use of additional clamps and straps and without damaging the moulding through errant v-nails or visible nail holes.

Your challenge

Some framers have satisfactory results with traditional joining methods when it comes to fairly simple and basic moulding profiles for small to mid-sized frames, but you are a custom framer and “fairly simple and basic moulding profiles for small to mid-sized frames” is not what you do! You are not in the business of building thousands of identical frames as fast and inexpensive as possible, you are in the business of creating custom frames that complement and enhance your clients’ artwork. You offer your customers a full range of moulding styles, including thin hardwood cap and floater frames, strainer and stretcher frames and tall shadow and display boxes that need to be able to carry substantial weight without failing. **With every frame you craft, your reputation is not only on the line, but literally “on the wall”!**

Your solution

The Hoffmann Dovetail Joining System has been used worldwide by picture framers ranging from single-person custom shops to high-volume production facilities as well as woodworkers, furniture and cabinet factories and millwork shops for over 25 years. It’s proven, it’s reliable and it works.

What we don’t do

We do not shoot a fastener with high pressure into a variable density, natural substance like hardwood or bamboo. We do not make you “hope” that the second, third or fourth fastener you have to stack in order to get a halfway decent joint won’t blow out your moulding. We do not make you lift and rotate large yet still fragile frames on your joining machine.

How we do it

At the core of our joining system is the fact that we first create precisely routed keyways for our Dovetail Keys. These keyways and the matching Dovetail Keys are designed to fit very tightly and we offer four different Dovetail sizes in varying lengths to suit different moulding styles, sizes and wood species. The results are always tight, perfectly aligned and reliable corners, created without the need for additional vices,

clamps or straps – and certainly without the need to damage the moulding surface with nails. Hoffmann Dovetail Keys are made in Germany from quality raw materials in an ISO certified facility; they are dimensionally stable and will not get brittle with age.

What we offer

- We provide you with machines that are easy to set up, their operation is intuitive and they are simply a pleasure to use – and the build quality assures that they will function flawlessly for a very long time.
- We are proud that all machines, accessories, tooling and Dovetail Keys are Made in Germany and we stand behind everything we sell.
- We offer free technical support with online videos and a toll-free number so you can talk to somebody anytime you need some assistance.
- We give you peace of mind with our comprehensive warranty and outstanding customer service before, during and after the sale.



Thank you for your business!

Markus J. Hueber
General Manager, Technical Support

Gary Kaufmann
Sales Manager, Technical Support



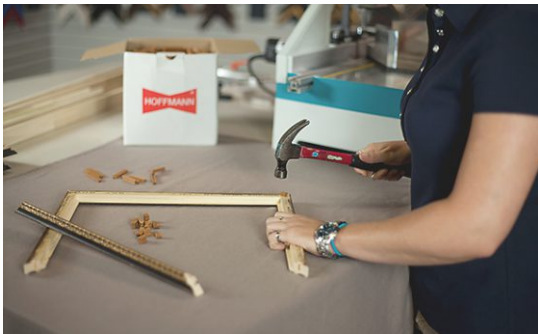
Quality Joints with Dovetail Keys



Assembly of shadow box corner joint



Assembly of wide moulding with two Keys



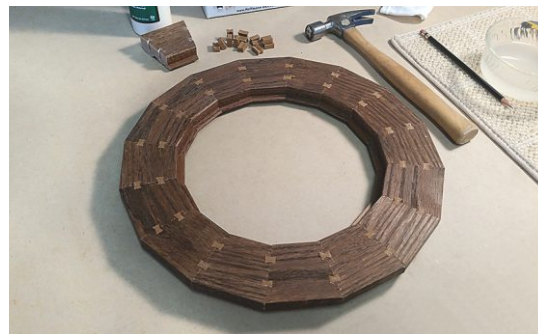
Assembly of small, standard type frame corner



Assembly of strainer cross brace joint



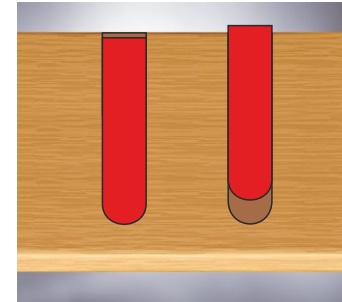
Assembly of RTA strainer corner joint



Assembly of multi-segmented custom frames

Some Helpful Tips

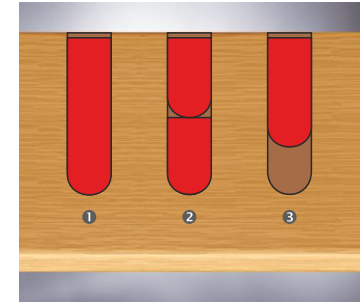
Selecting the Proper Keyway Length



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.

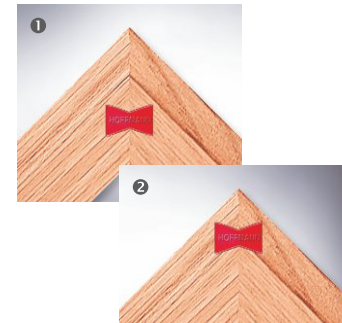
Choosing the Proper Dovetail Key Length



- ❶ Correct Key length
- ❷ Keys can be stacked if necessary
- ❸ 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



- ❶ Correct Key position
- ❷ Incorrect position

Setting the Keys closer to the middle of the material reduces the chance for splitting.

MU 3-PD

Pneumatic Dovetail Routing Machine with Digital Position Displays



Professional level, pneumatically controlled 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, galvanized steel motor carriage with integrated motor fine adjustment and digital displays for routing height and routing location. For Dovetail Key sizes W-0, W-1, W-2, W-3 (W-4 with optional larger motor).

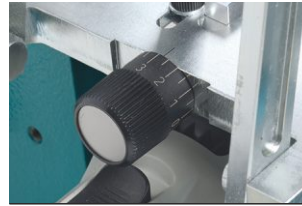
Operation

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. Both positions are shown on separate digital displays for accuracy and repeatability. Pressing the pneumatic foot pedal starts the machining cycle:

- > Pneumatic clamp secures 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 clamp releases workpiece

Technical data

Power Supply	120 volts – 7.4 Amps
Air Supply	90 psi - approx. 0.1 cubic foot/cycle
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
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 guide rods

Motor carriage features precision ground steel guide rods and sealed linear bearings which are 25% larger (20mm vs. 16mm) than previous models for added strength and long term accuracy.



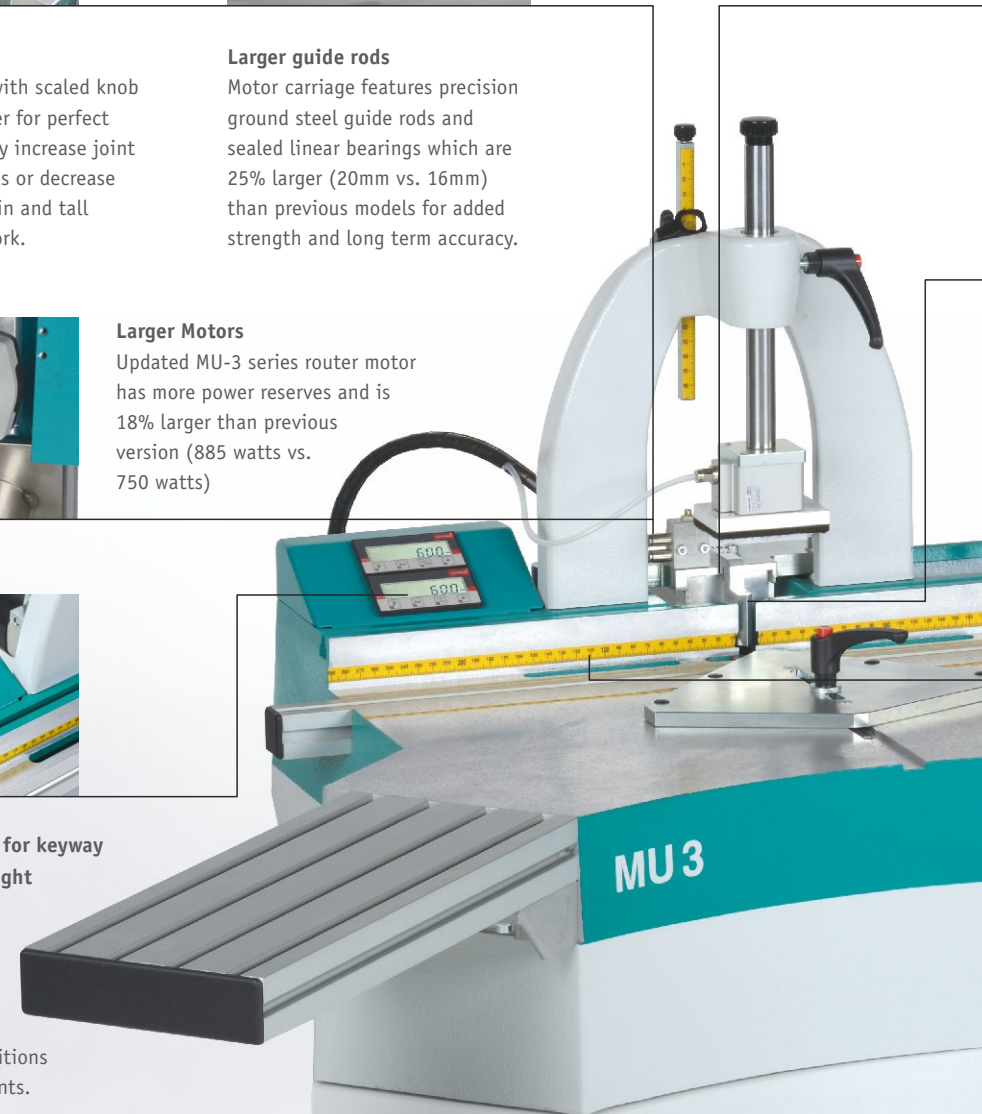
Larger Motors

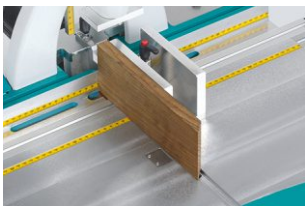
Updated MU-3 series router motor has more power reserves and is 18% larger than previous version (885 watts vs. 750 watts)



Digital Position Display for keyway location and keyway height

Dust-proof dual display with 1/10mm accuracy for precise positioning of center fence plate and routing height. Assures same keyway positions every time for perfect joints.





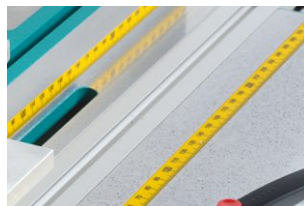
Higher Routing Heights

Maximum routing height has been increased from 3" to 3^{3/4}" on pneumatic models and from 3" to 3 3/8" on manual models.



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.



Testimonial

**Susan Lipiner and
Joseph Lipiner, President**
Frame Dimensions, LLC
Manchester, CT

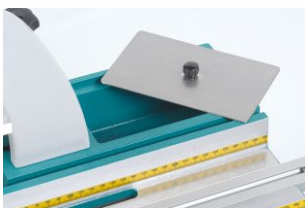
In 2016 we purchased the Hoffmann MU 2-P dovetail machine. Our first introduction to Hoffmann was at the West Coast Art and Frame show. Year after year I would look at the machine and talk to other well respected framers about it. As time went on many of these framers purchased MU2 machines and were thrilled with its performance. In fact, they all raved about it so much one year that I had to go back to the Hoffmann both and really take a better look at what everyone was talking about. After about an hour of Gary and Markus showing me the machine and me trying the dovetail machines for myself I was also "hooked"

Tall, narrow and odd shaped profiles have always been a challenge to join with a v-nailer. So many times our framers would resort to joining these frames on manual corner vices - so slow and all those nail holes. Our Hoffmann MU 2-P changed all of that. After two years of production use I have found frame after frame - this machine excels at joining tall and difficult molding profiles. Hardwood or Softwood the MU2-P does them all. This machine is a great addition to our shop. Even more impressive is how strong of a joint the MU 2-P system can make in tall narrow frames.

I would highly recommend purchasing the MU2-P Pneumatic version of this machine. It is so much faster and easier to use than the manual. It is definitely an investment in quality equipment that will keep on working for you for many years.

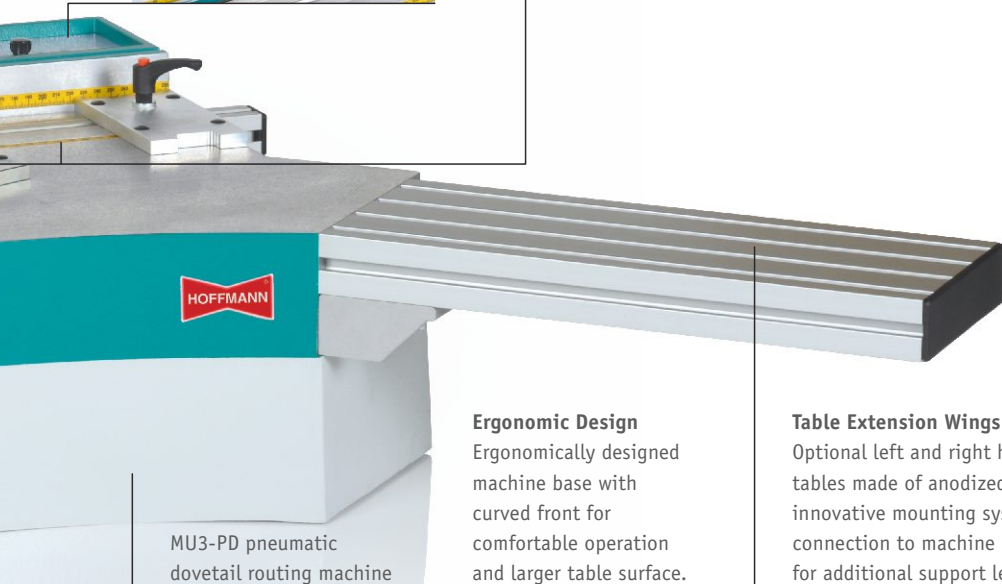
Finally, I would also like to thank the Hoffman USA team for all of their continued support. Markus, Gary and Kim are terrific. They are always there to answer questions and offer suggestions on how to take full advantage of my Hoffmann machine. Our Hoffman dovetail machine and the team behind it all rock!

(MU 3-P and MU 3-PD are the current models of the mentioend MU 2-P)



Covered Tool Storage

Built-in storage compartment with dust cover to keep router bits and tools handy.



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-D

Manual Dovetail Routing Machine with Digital Position Displays



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, galvanized steel motor carriage with integrated motor fine adjustment and digital displays for routing height and routing location. For Dovetail Key sizes W-0, W-1, W-2, W-3 (W-4 with optional larger motor).

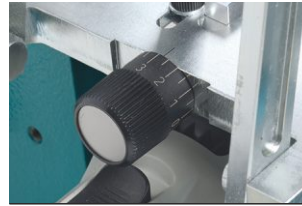
Operation

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. Both positions are shown on separate digital displays for accuracy and repeatability. Pulling the main lever downward starts the machining cycle:

- > Padded hold-down plate secures workpiece 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
Digital Display	dual liquid crystal display, 3/8" digit size, accurate to 0.004"
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	W1031100



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 guide rods

Motor carriage features precision ground steel guide rods and sealed linear bearings which are 25% larger (20mm vs. 16mm) than previous models for added strength and long term accuracy.



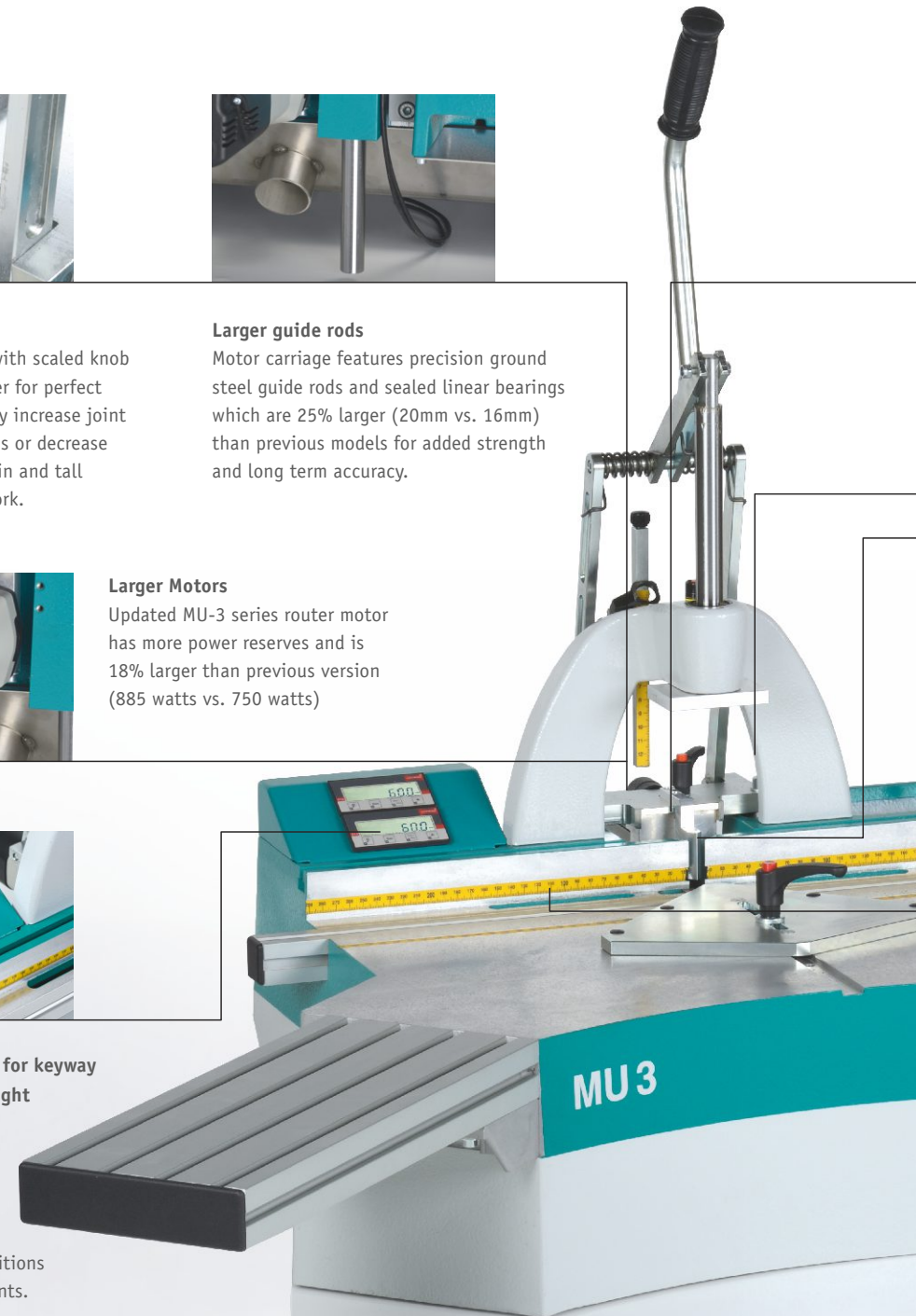
Larger Motors

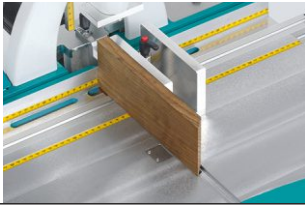
Updated MU-3 series router motor has more power reserves and is 18% larger than previous version (885 watts vs. 750 watts)



Digital Position Display for keyway location and keyway height

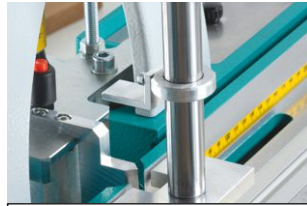
Dust-proof dual display with 1/10mm accuracy for precise positioning of center fence plate and routing height. Assures same keyway positions every time for perfect joints.





Higher Routing Heights

Maximum routing height has been increased from 3" to 3^{3/4}" on pneumatic models and from 3" to 3 3/8" on manual models.



Routing Depth Limiter

Optional depth limiter is adjustable and automatically stops routing stroke to avoid breaking through top of material.



Center Line Locator

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



Testimonials

Rob Markoff, CPF

Gallery Services

San Diego, CA

My mantra is, "use the right tool for the job." For joining tall stem and floater frames, there is no better joining system than Hoffmann. I am confident that my frames are strong and connected for the full height of the molding. You just can't do this with a v-nailer.

I specialize in framing oversized art. Joining frames using Hoffmann Keys lets me create frames that are strong and structurally sound without having to manipulate a large frame awkwardly on an underpinner.

Hoffmann Dovetail Keys are not only a superior method of joining, but they also provide a means to add elegant decorative touches to truly customize your frames.



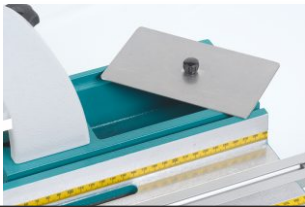
Tim Franer, CPF

Tim Franer & Company

Corning, CA

In my 46 years of professional picture framing my go-to joining system is the Hoffmann Dovetail Routing Machine. It gives me unlimited possibilities for joining picture frames with precision and accuracy that is unmatched by anyone in our industry.

The majority of my frames are tall cap and shadow box designs and only the Hoffmann System provides a tight fitting dovetail assembly that is strong and holds every time, regardless of how deep or tall your moulding is.



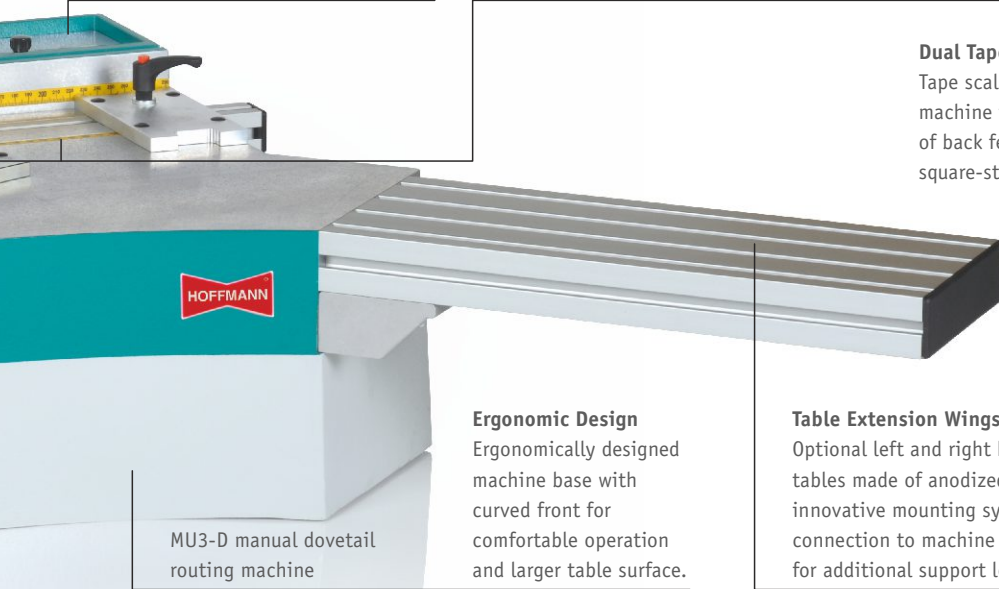
Covered Tool Storage

Built-in storage compartment with dust cover to keep router bits and tools handy.



Dual Tape Scales

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



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-D manual dovetail routing machine

MU 3-P

Pneumatic Dovetail Routing Machine



Professional level, pneumatically controlled 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

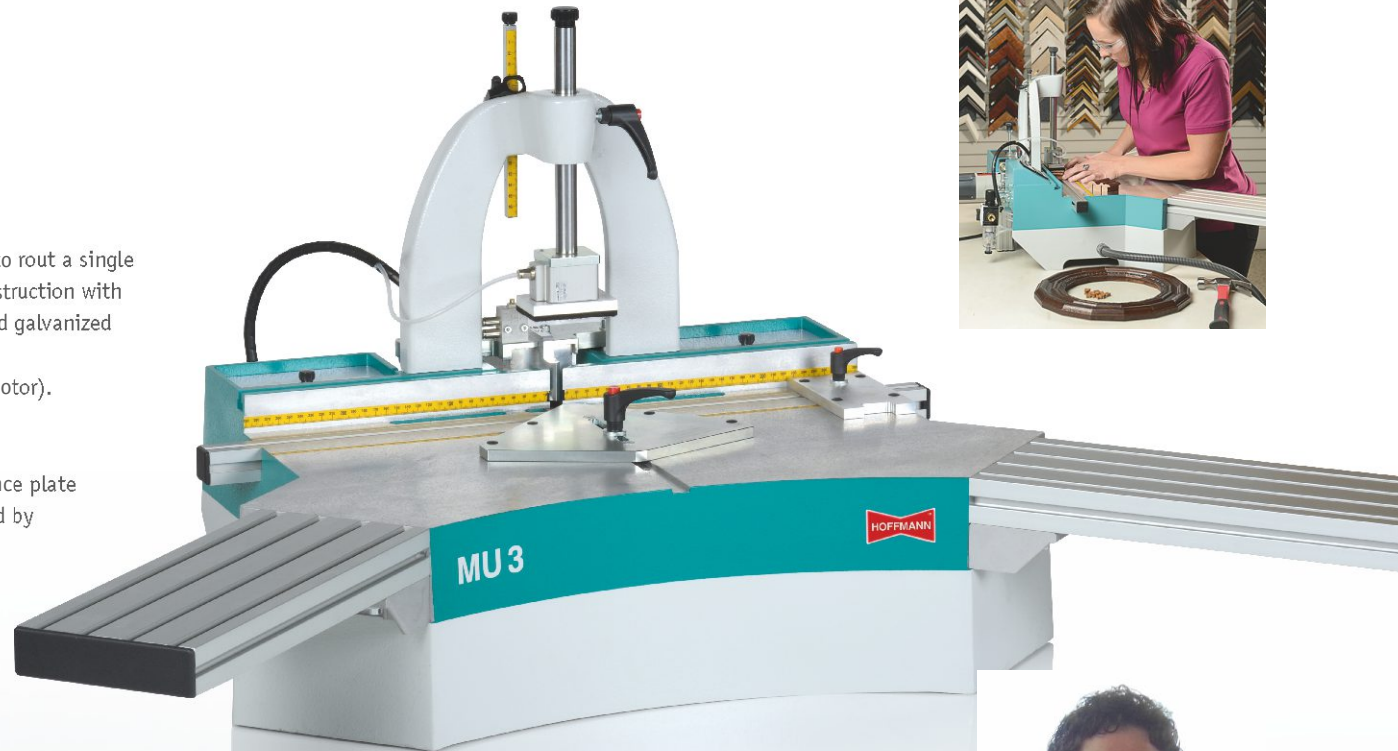
The keyway location is adjusted by positioning the guided center fence plate on the machine table; the keyway length (routing height) is adjusted by setting a height-stop rod to the desired setting.

Pressing the pneumatic foot pedal starts the machining cycle:

- > Pneumatic clamp secures workpiece on machine table 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 clamp releases workpiece

Technical data

Power Supply	120 volts – 7.4 Amps
Air Supply	90 psi - approx. 0.1 cubic foot/cycle
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	pneumatic – dual cylinder design
Max. routing height	3 3/4" – 95mm
Max. moulding height	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	W1032000



Testimonial

Alice Perritt, CPF
HoFP Gallery
Columbia, SC



We've always pushed the limits of frame design – big, tall, complicated. You name it and we try to do it, regularly altering mouldings to get the perfect look, almost always stacking to get a unique combination. Getting perfect corners using underpinner machines was a constant challenge. With the Hoffmann machine we have an elegant solution for all those tall and thin mouldings now so prevalent in the industry.

We use it regularly for float frames and shadowbox profiles. Some of the Hoffmann accessories designed specifically for tall profiles make that easy. We've also found it surprisingly quick and handy for a myriad of other profile shapes. A bonus is the ability to join angles other than standard 90 degrees.

A Hoffmann machine is a valuable addition to any serious frame shop.

MU 3

Manual Dovetail Routing Machine



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

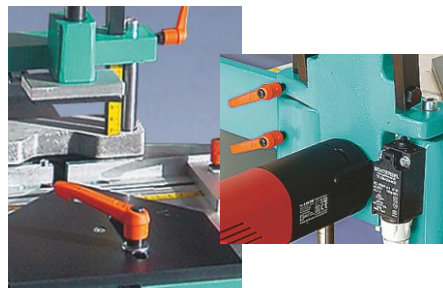


Entry level, manual dovetail routing machine to rout a single dovetail keyway with each machining cycle. For Dovetail Keys sizes W-0, W-1, W-2, W-3.

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



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, 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

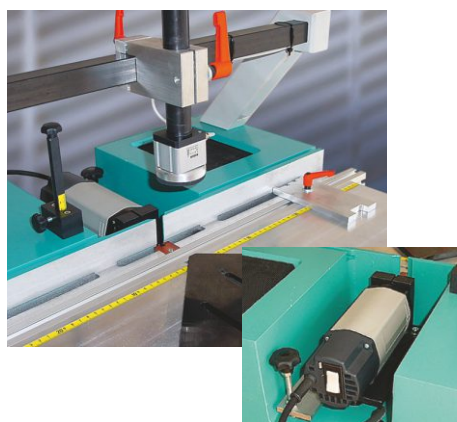
PU 2 Professional Series

Pneumatic Dovetail Routing Machine



Production-duty, single-head 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-0, W-1, W-2, W-3 and W-4.

The PU 2 is a production level machine, with larger guide rods and bearings, a heavier 1,000 watt motor, thick cast-aluminum table and a 4" dust collection port on the back. Other features include contactor controlled motor, a lockable emergency-stop switch and machined t-slots in the back fence for installation of optional fence extensions. Machine is operated with a pneumatic foot pedal, allowing the operator to keep both hands on the moulding being processed.



Technical Data

Power supply	120 volts - 8.3 Amps.
Motor	1,000 watt
Motor speed	35,000 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	W 107 0000

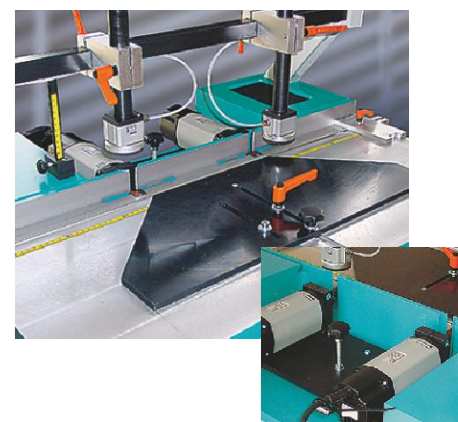
PP 2 Professional Series

Pneumatic Dovetail Routing Machine



Production-duty, double-head 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-0, W-1, W-2, W-3 and W-4.

The PP 2 is a double-head production level machine, with larger guide rods and bearings, two heavy 1,000 watt motors, thick cast-aluminum table and a 4" dust collection port on the back. Other features include contactor controlled motors, a lockable emergency-stop switch and machined t-slots in the back fence for installation of optional fence extensions. Machine is operated with a pneumatic foot pedal, allowing the operator to keep both hands on the moulding being processed.



Technical Data

Power supply	120 volts - 17 Amps.
Motor	2 x 1,000 watt
Motor speed	35,000 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	W 108 0000

Full Range of Accessories

Complete line of accessories designed specifically for the MU-3 series machines include center fence plate, square stops and inside corner fences prepared for later installation of height extensions, adjustable inside corner fences to accommodate different angles, adjustable compound miter fixtures for crown moulding joints, etc.



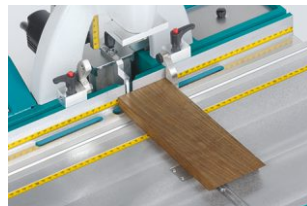
45degr. Fence Plate



Square Stop



Inside Corner Fences



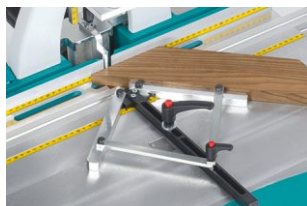
Flip Stop for rear fence



Compound Miter Fixture



Inside Corner Fences, adjustable



Adjustable fence "Synchro" 0-90°



Table Flip Stop

Testimonials



Leslie Desnick

**Metropolitan Picture Framing
Minneapolis, MN**

We specialize in museum quality hardwood fixed corner frames and moulding and could not get a perfect corner using underpinner machines. We discovered Hoffmann Machine in 1992, purchased their entry level model and became "hooked". Since then as our business has grown we have upgraded to the MU2 in 1995 and in 2004 purchased a PP-2 which allows us to process two pieces at a time.

We recommend joining hardwood frames in maple, oak and ash with the Hoffmann Joining System. The results are tight corners, no clamping and it is very fast.

Hoffmann machines are extremely well made, very reliable and I highly recommend them for every size frame shop.



David Waldmann

**Vermont Hardwoods
Chester, VT**

The Hoffmann dovetail joining machine is a refreshingly well engineered and built machine. Unlike most machines of this day and age, they are truly designed for a professional to use day in and day out. We get consistent, quality joins regardless of the level of experience of the operator. Our biggest use is for the Ready -To- Assemble wholesale custom picture framing market, and our customers absolutely love it. They get the quality of a pre-joined frame for a fraction of the cost and no worries about shipping damage.

Virtually everyone who has tried it has added the option to their default ordering protocol. I heartily recommend the Hoffmann Dovetail System, and especially so for anyone who is joining deep and narrow hardwood frames.

PP 2-NCF Professional Series

Programmable Dovetail Routing Machine



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

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 105 0001



Optional ELA-2 automatic length stop system



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

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.

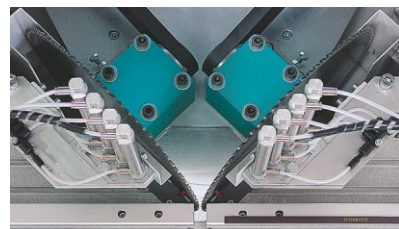
Function

- > 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-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 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.

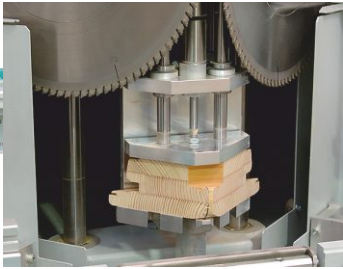
Hoffmann has been dedicated to perfect joints in the woodworking and framing industry for over 25 years; we have the experience, dedication, know-how and equipment to produce the best and most reliable miter joints in the industry.

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.

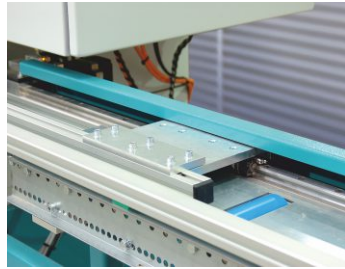


Pneumatic Clamp



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

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

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 35-SF

Automatic Double Miter Saw with integrated Dovetail Routing Stations

Technical Data

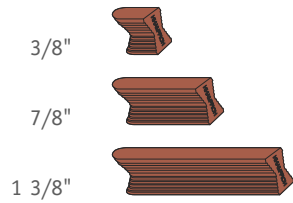
Power	230 Volts, 3 P, 20 Amps.
Air Supply	90 psi
Router heads	2 x 500 Watt - 24,000 rpm,
Saw heads	2 x 2 1/2 HP, 3,470 rpm
Saw blades	350mm diameter, carbide tipped
Router bits	W-0, W-1, W-2, W-3
Cutting capacity	3 1/2" width
	3 1/2" thickness (90 x 90mm)
Max. routing height	2 3/4" (70mm)

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, 600cfm
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

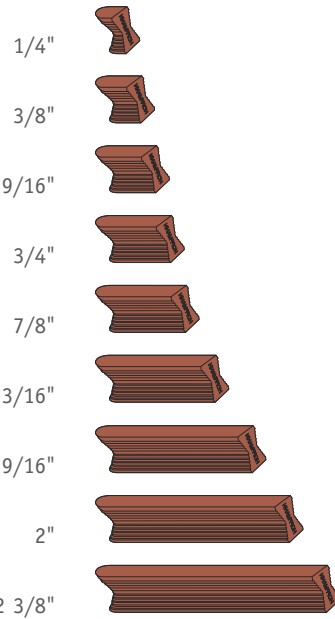
Hoffmann Dovetail Keys - Sizes and Lengths.

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

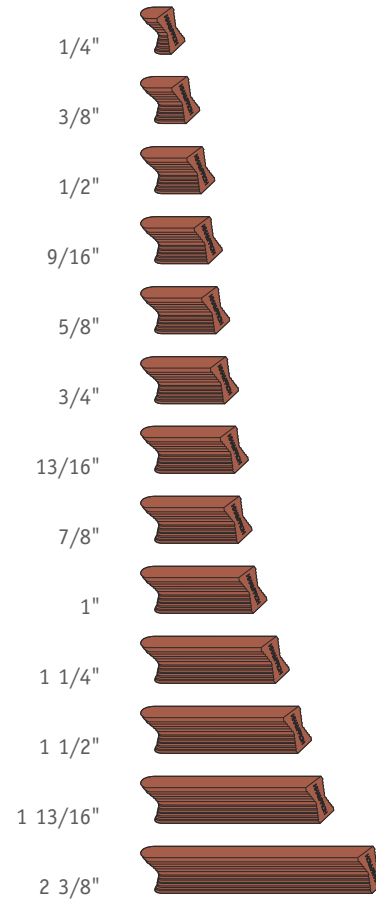
W0
HOFFMANN 1/8"
11/64"



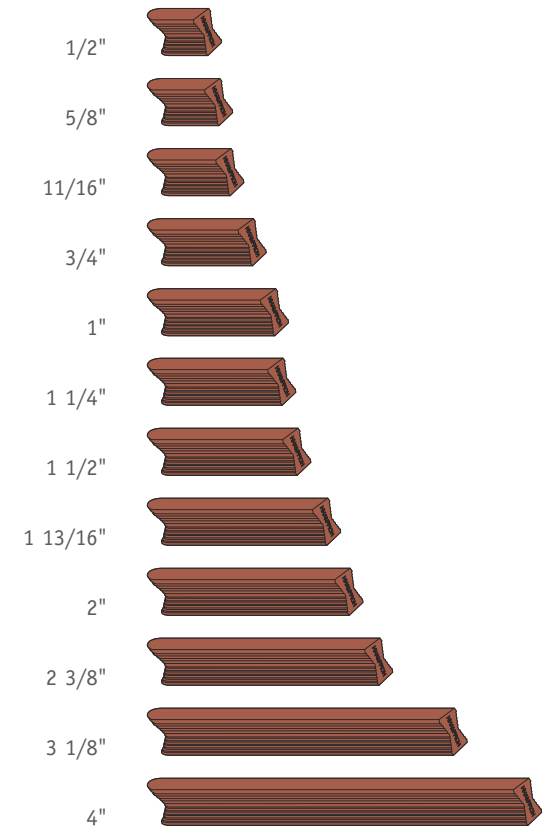
W1
HOFFMANN 7/32"
9/32"



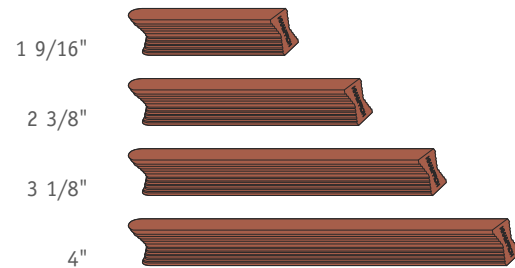
W2
HOFFMANN 5/16"
3/8"



W3
HOFFMANN 3/8"
1/2"



W4
HOFFMANN 5/8"
15/16"



Hoffmann Dovetail Keys - Sample Case

Medium brown polymer

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



Hoffmann Dovetail Keys - Solid Hardwood

Available in 12" pre-cut lengths,
min. order 5 ft. per size and species



Ref.	Description	Size
W8210000-CHE	cherry	W2
W8210000-MAH	mahogany	W2
W8210000-MAP	maple	W2
W8210000-OAK	oak	W2
W8210000-WAL	walnut	W2
W8210000-WEN	wenge	W2

Ref.	Description	Size
W8310000-CHE	cherry	W3
W8310000-MAH	mahogany	W3
W8310000-MAP	maple	W3
W8310000-OAK	oak	W3
W8310000-WAL	walnut	W3
W8310000-WEN	wenge	W3

Ref.	Description	Size
W8410000-CHE	cherry	W4
W8410000-MAH	mahogany	W4
W8410000-MAP	maple	W4
W8410000-OAK	oak (3ply)	W4
W8410000-WAL	walnut	W4
W8410000-WEN	wenge	W4



Accessories for routing machines and miter saws

W-0
solid carbide
router bit
(W 2006350)
oversized carbide
router bit
(W 2006352)



W-1
solid carbide
router bit
(W 2016350)
oversized carbide
router bit
(W 2016352)



W-2
solid carbide
router bit
(W 2026350)
oversized carbide
router bit
(W 2026352)



W-3
solid carbide
router bit
(W 2036350)
oversized carbide
router bit
(W 2036352)



W-4
carbide tipped
router bit
(W 204800) Continuous
use of W-4 bits requires
larger 1,000 watt
motor in machine



Square
Chip Breaker
(W 2000015)



Digital Multi Gauge
for accurately setting
of router bits
(W 2001300)



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.



Double Miter Saws

Production double miter saws and double-end miter saws with adjustable cutting angles and various levels of automation.



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.



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