

# Production Double Miter Saws

Speed and  
Precision



The Hoffmann  
Dovetail Joining System

# The Hoffmann Dovetail Key – Our System

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 Key and its ridged sides guarantee a snug fit and positive guidance when driven into the routed slots. As the Key is inserted, the workpieces are drawn together, creating a tight, perfectly aligned and permanent joint without the need for clamps, staples or other fastening devices. **Fast – Exact – Reliable.**

- > **Mitered parts with any angle, as well as straight or butt joints, end-to-end joints and even difficult to assemble compound miters can be joined.**

## Colors and Materials

Standard Hoffmann Keys are made of a medium-brown polymer designed to blend in well in most applications. Different colors, shapes and sizes are available for customer specific applications.

## Fast and Reliable Assembly even with Difficult Joints

Hoffmann Dovetail Keys provide a fast, exact and reliable way of joining wood, whether on a large production scale or in a small custom shop. The double-dovetail shape and ribbed, sloped sides 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.

In fact, one of the main advantages is the fact that the person assembling the parts cannot change the alignment or tightness of the resulting connection, a major benefit not only in shop assembly, but also when shipping RTA products. A hammer is all that's needed to create perfect joints every time.

## The Right Key for Every Joint

Hoffmann Dovetail Keys are extremely versatile, with lengths ranging from 1/4" - 4" in different colors and materials. For every joint, for every application, for every environment we have the perfect Dovetail Key..



## 1-2-3-Done!

Blind dovetail keyways are routed in the back of the material, in the adjoining faces of the two parts. The pieces are set together, a Dovetail Key is inserted and - **that's it!**

Applying glue in the joint is optional but recommended and the assembled joint can be handled immediately without waiting for the glue to set.



**Thank you  
for your business!**

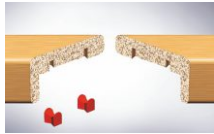


# Applications for Hoffmann Dovetail Keys

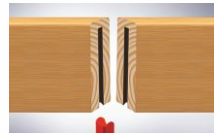
We're Found in the Best Joints! Hoffmann Dovetail Keys are used in architectural and woodworking applications worldwide. Here are but a few examples:



Window and Door Casing  
Wall Panel Trim  
Exterior Brick Moulding  
in Wood and PVC



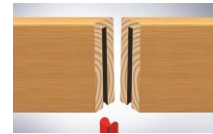
Flag Display Cases  
Toys and Jewelry  
Boxes  
Cigar Humidors



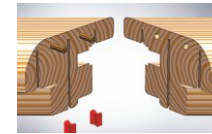
Profiled Handrails  
Banisters  
Architectural  
Millwork



Plantation Shutters  
in Solid Wood  
and PVC



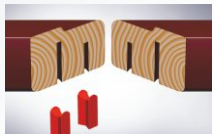
Window Sash and  
Frame Corner Joints  
In solid wood and  
aluminum clad



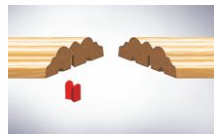
Post and Beam  
Construction  
Curtain Wall Systems  
Sunrooms



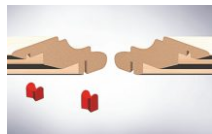
Mitered Cabinet  
Doors  
Wall Panels



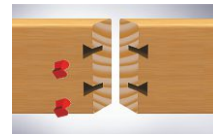
Picture Frames  
(shop assembled or RTA)  
Dry Erase and  
Message Boards



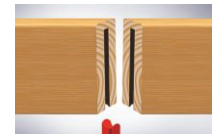
Cornices  
Crown Mouldings  
Wooden Casket Lids



Angled cabinet fronts  
Range Hoods  
Column Wrap Millwork



Casket Body Joinery  
Large Trunks and  
Wooden Boxes



Mullions in Windows  
and Doors  
Glazing Stops  
Inset Frames





# 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

## Mitered Cabinet Doors

Cut miters and rout keyways in one machining cycle.

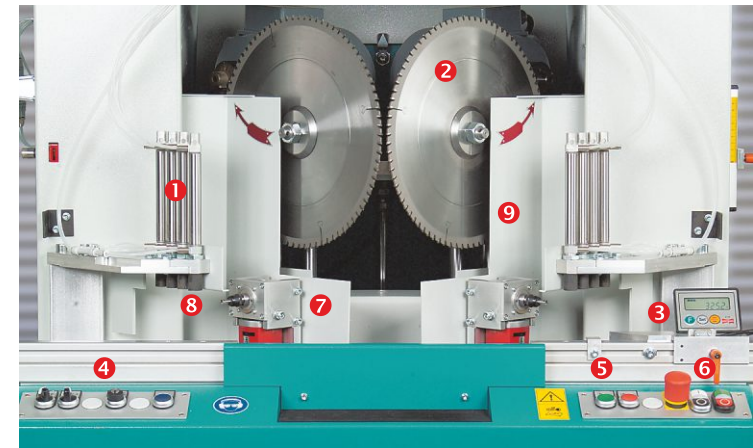


## Saw Heads

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



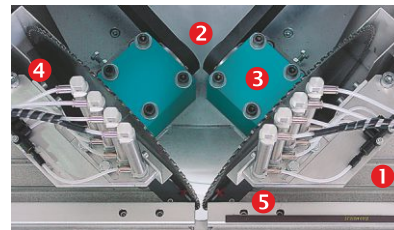
1. Pneumatic material clamping cylinders with non-marring bumper (8 total)
2. Carbide-tipped, industrial quality saw blades
3. Length stop with digital display
4. Left operator panel
5. Right operator panel
6. Emergency-Stop button
7. High-speed router motors with integrated gear-heads
8. Solid carbide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



Router motor with 90° gear head



Cutting area (with safety cover raised up for clarity)



# 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

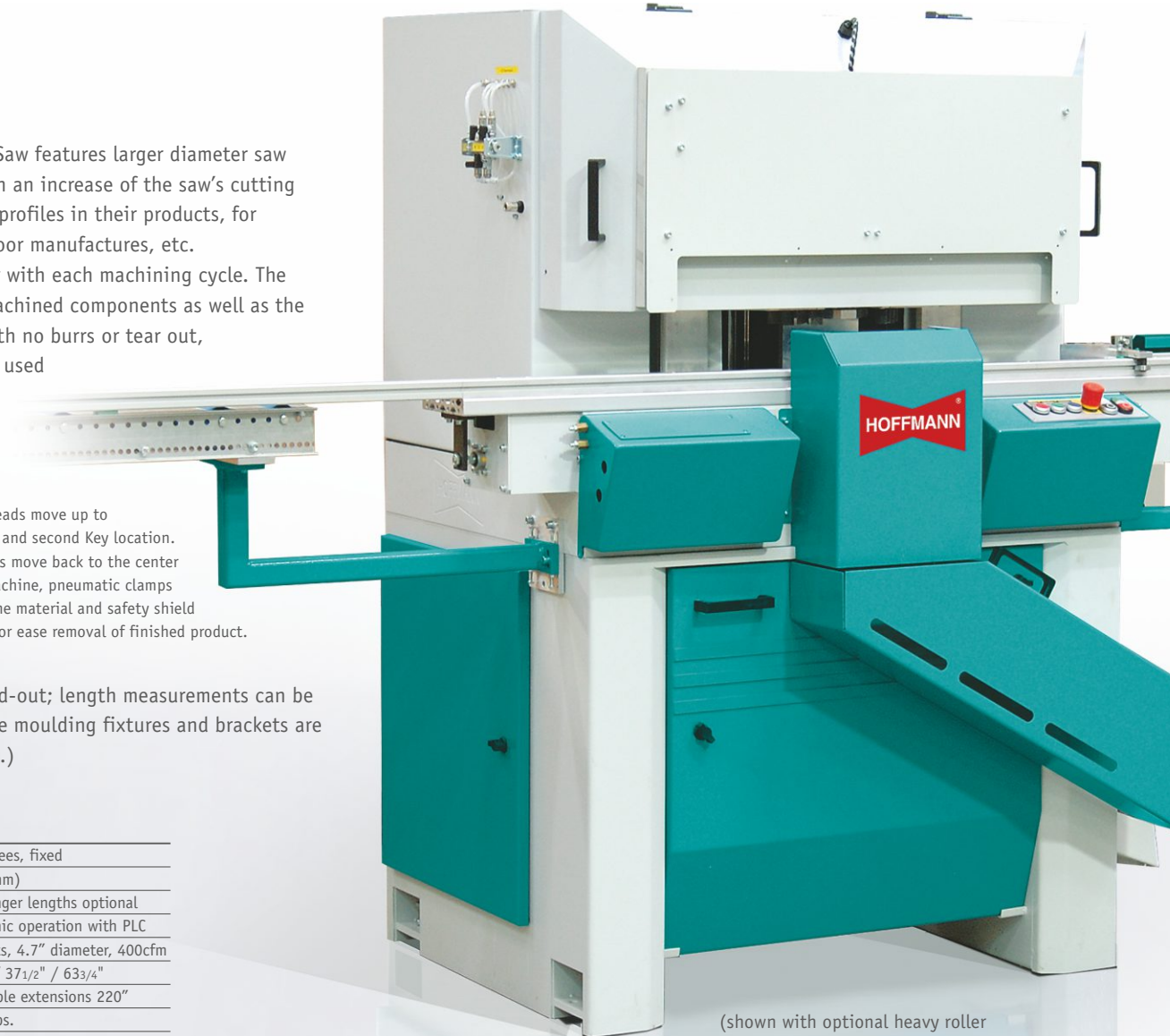
- > Operator initiates machining cycle by pressing start button on front panel.
- > Pneumatic hold-down clamps secure material on machine table.
- > Clear safety shield is lowered to cover the sawing and routing areas
- > Saw blades cut through material and retract back up to their home position.
- >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

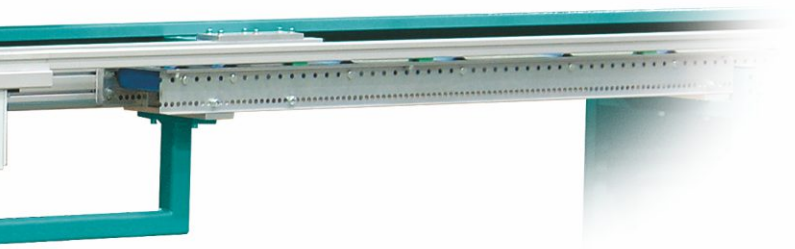
Cutting angle	45 degrees, fixed
Minimum length	3" (75mm)
Maximum length	96", longer lengths optional
Controls	electronic operation with PLC
Dust collection	2 x ports, 4.7" diameter, 400cfm
Dimensions W/D/H	58 7/8" / 37 1/2" / 63 3/4"
	with table extensions 220"
Weight	1,565 lbs.
Order Number	M 107 0001



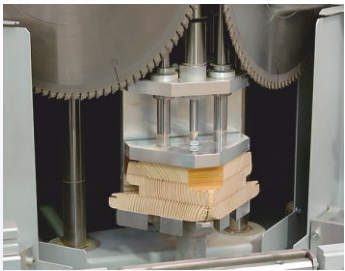
(shown with optional heavy roller tables and ELA-2 positioning system)



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.

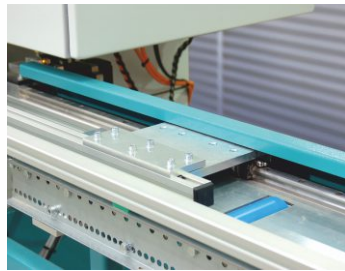


### Pneumatic Clamps

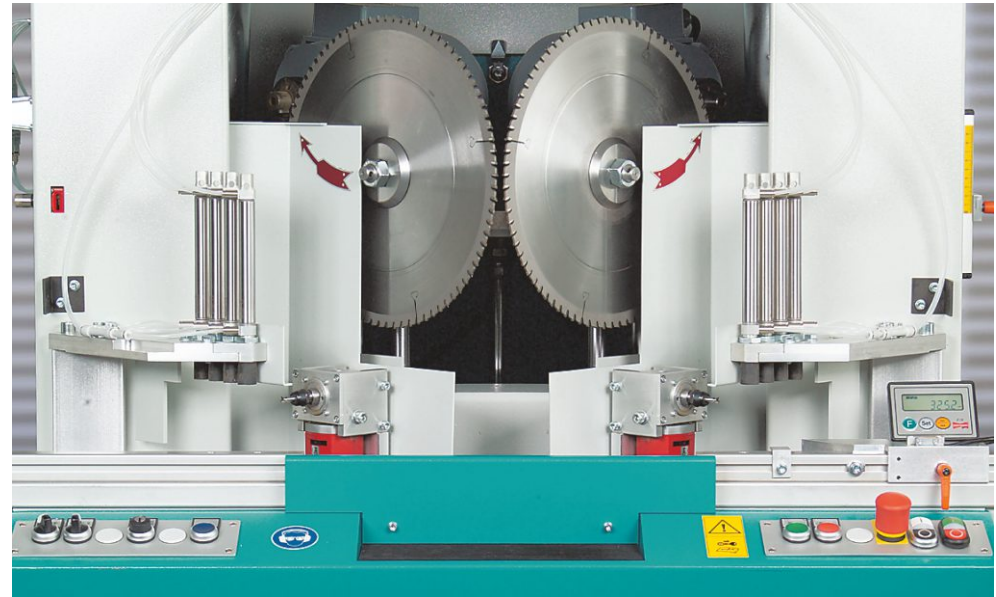


Pneumatic clamp secures center scrap piece during cutting operation to avoid tear-out. Waste parts are automatically ejected forward into large scrap chute.

### 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.

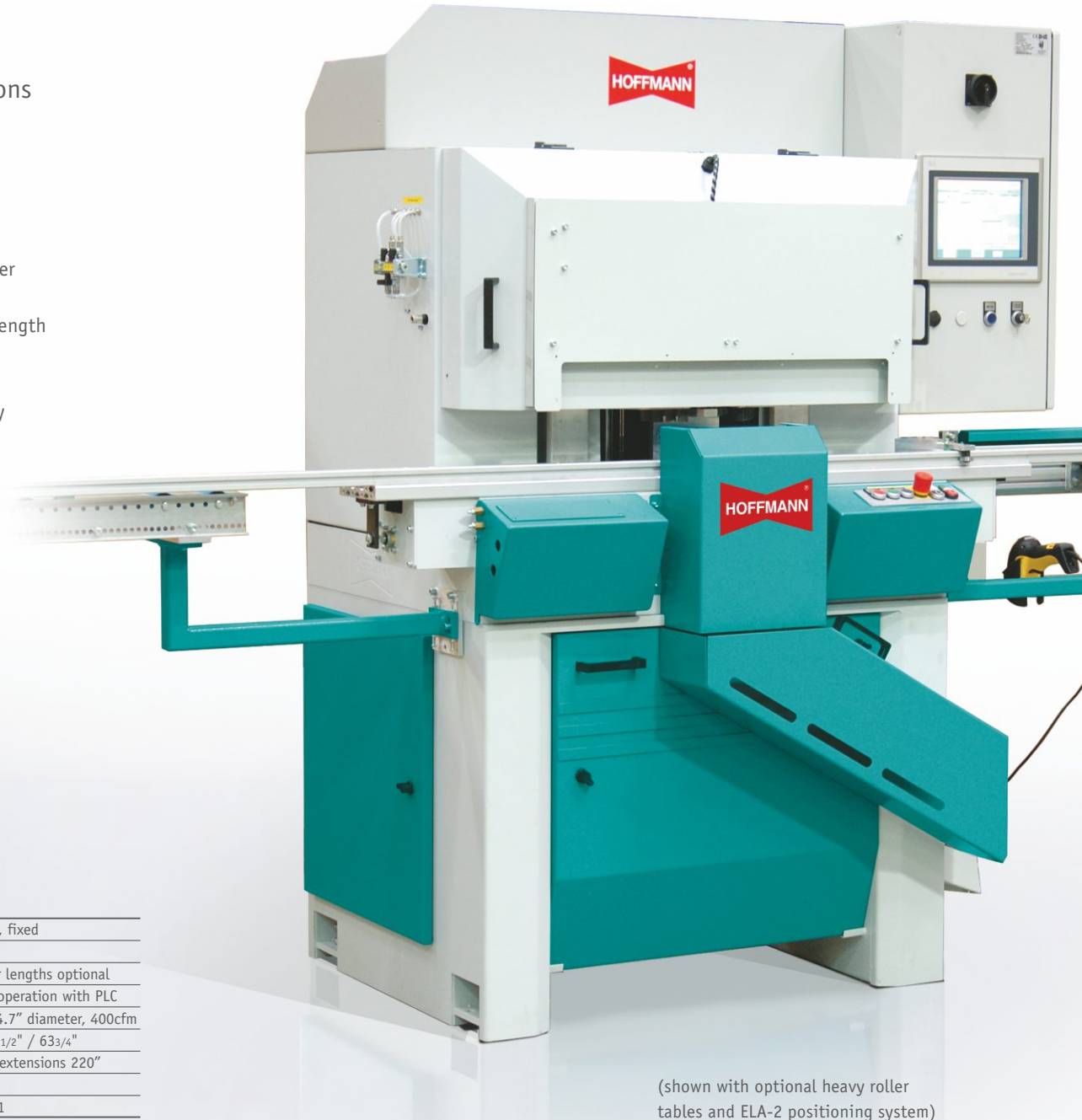
### Function

- > 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



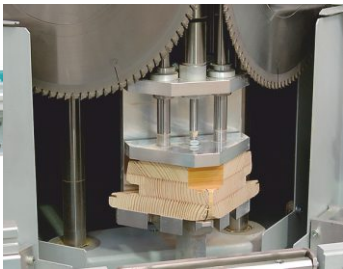
(shown with optional heavy roller tables and ELA-2 positioning system)



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.

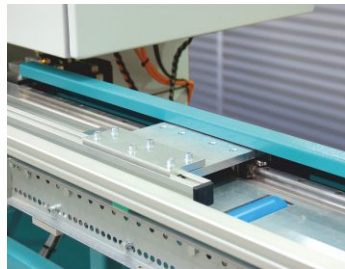
Hoffmann has been dedicated to perfect joints in the woodworking and framing industry for over 25 years; we have the experience, dedication, know-how and equipment to produce the best and most reliable miter joints in the industry.

### 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.

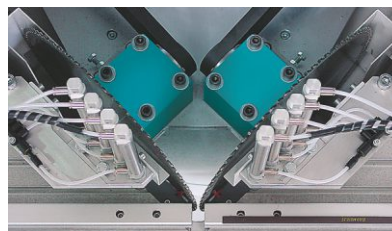
### Function

- > 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



# ELA 2 - Length Stop System for MS35 and MS35SF double miter saws

## Automatic Length Stop System

Designed and manufactured by Hoffmann in Germany, the ELA-2 automatic length stop system is the ideal upgrade to increase efficiency on MS 35 and MS 35-SF double miter saws. The universal design and intuitive controller allows for quick installation on other equipment such as line drills, routing machines, cut-off saws, etc. as well. Sealed, precision linear bearings assure repeat accuracy, long life and low maintenance. Ball bearing material rollers are recessed in the steel table surface, with gaps between rollers closed to reduce pinching points. Heavy, 1/8" thick steel top for long-term rigidity features baked-on industrial finish and adjustable steel support legs.

### Optional equipment

Radio-frequency length measuring gauge, features 30x30mm lightweight aluminum extrusion for all day handling, with digital display for immediate visual proof of measured dimension. Features RF transmittal of measured dimension to ELA-2 with the push of a button.



Operator control panel



Roller conveyor guide rail and length stop



Wireless RF data transfer  
e.g. glazing beads, applied  
moulding, inset frames

### Technical Data

Power Supply	230 volts, single phase
Working / Overall length	10 ft. – 3,000mm / 12 ft. – 3,600mm
Controls	dust proof, industrial quality controls
	Operator panel with large touchscreen (4.75" x 6")
	Automatic "step forward" sequence (after each cut the stop advances to the next stored dimension)
Accuracy	0.1mm/m – 4/1000" per 40"
Length adjustment	1. manual entry on touch screen (with memory function for future use)
	2. Downloading of cutlists to USB port
	3. Radio frequency transmittal from Hoffmann RF-gauge
Order Number	M 310 0000



# 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.

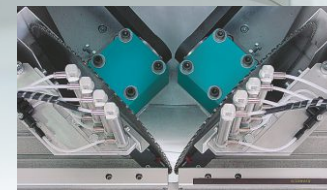
### Technical Data

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

# ELA 2 - Length Stop System for MS 40 and MS 40-SF double miter saws

## Automatic Length Stop System

Designed and manufactured by Hoffmann in Germany, the ELA-2 automatic length stop system is the ideal upgrade to increase efficiency on MS 40 and MS 40-SF double miter saws. The universal design and intuitive controller allows for quick installation on other equipment such as line drills, routing machines, cut-off saws, etc. as well. Sealed, precision linear bearings assure repeat accuracy, long life and low maintenance. Ball bearing material rollers are recessed in the steel table surface, with gaps between rollers closed to reduce pinching points. Heavy, 1/8" thick steel top for long-term rigidity features baked-on industrial finish and adjustable steel support legs.

### Optional equipment

Radio-frequency length measuring gauge, features 30x30mm lightweight aluminum extrusion for all day handling, with digital display for immediate visual proof of measured dimension. Features RF transmittal of measured dimension to ELA-2 with the push of a button.



Operator control panel



Roller conveyor guide rail and length stop



Wireless RF data transfer  
e.g. glazing beads, applied  
moulding, inset frames

### Technical Data

Power Supply	230 volts, single phase
Working / Overall length	10 ft. – 3,000mm / 12 ft. – 3,600mm
Controls	dust proof, industrial quality controls
	Operator panel with large touchscreen (4.75" x 6")
	Automatic "step forward" sequence (after each cut the stop advances to the next stored dimension)
Accuracy	0.1mm/m – 4/1000" per 40"
Length adjustment	1. manual entry on touch screen (with memory function for future use)
	2. Downloading of cutlists to USB port
	3. Radio frequency transmittal from Hoffmann RF-gauge
Order Number	M 310 0000

# 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

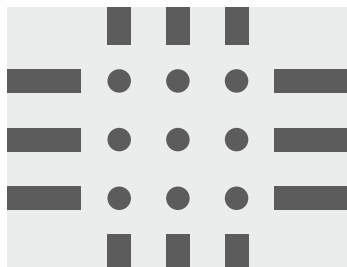
Power Supply	230 volts, 3 phase, 7.4 KW
Air supply	90 psi – 6 bar
Router heads / Boring heads	2 x 750 Watt / 2 x 750 watt
Saw heads	2 x 2 1/2 HP, 3,470 rpm
Saw blades	400mm diameter, carbide tipped
Router bits	W-0, W-1, W-2, W-3
Boring bits	6mm, 8mm, 10mm
Boring depth	1 3/16" (30mm)
Cutting capacity	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.

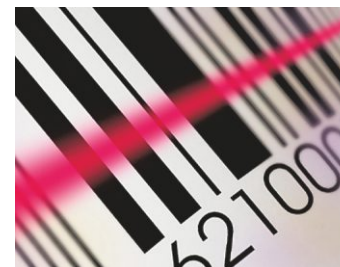
Fully adjustable dowel hole  
& dovetail keyway locations



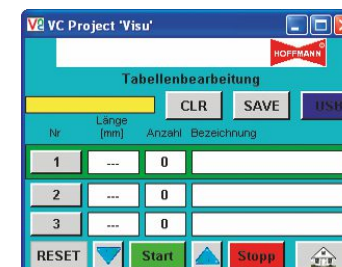
Optional wireless  
measuring gauge



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.

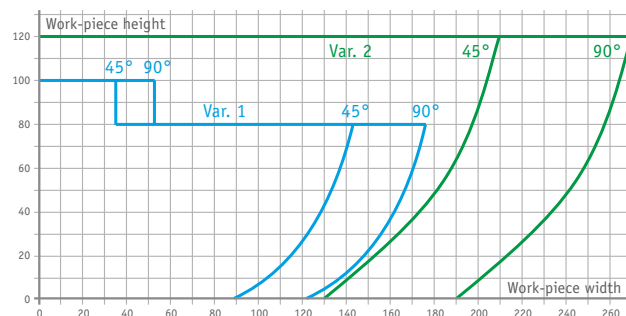
The backbone of the machine is a heavy-duty steel base frame with precision-ground mounting surfaces. The right hand saw/routing station is equipped with sealed linear bearing carriages for trouble-free operation in dusty environments. The metal blade guards are self-closing and all safety features meet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

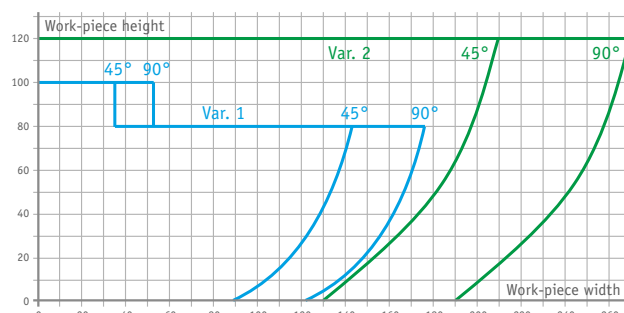
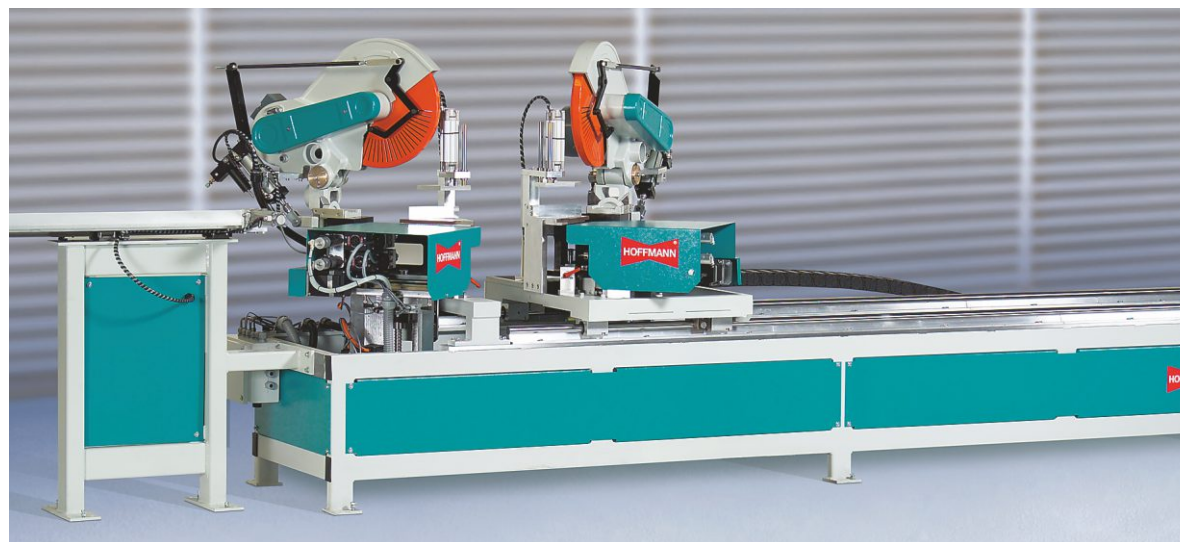
The backbone of the machine is a heavy-duty steel base frame with precision-ground mounting surfaces. The right hand saw/routing station is equipped with sealed linear bearing carriages for trouble-free operation in dusty environments. The metal blade guards are self-closing and all safety features meet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

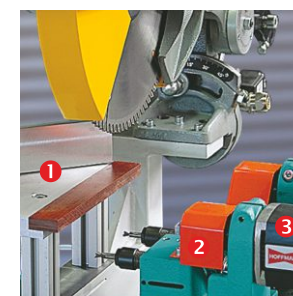
This production-duty machine can process parts for W-1, W-2 and W-3 Dovetail Keys with cutting angles ranging from  $+67^\circ/0^\circ/-45^\circ$ .

### 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°/0°/-45°.

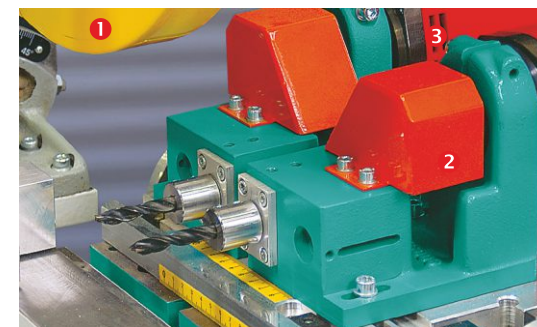


#### Technical Data

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°/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 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 Edgebanding 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



## Hoffmann Machine Company, Inc.

1386 Drexel Road · Valdese, NC 28690 – USA  
Toll-free phone (866) 248 – 0100

Phone (828) 430 – 4510 E-mail [info@Hoffmann-USA.com](mailto:info@Hoffmann-USA.com)  
Fax (828) 430 – 4620 Website [www.Hoffmann-USA.com](http://www.Hoffmann-USA.com)

