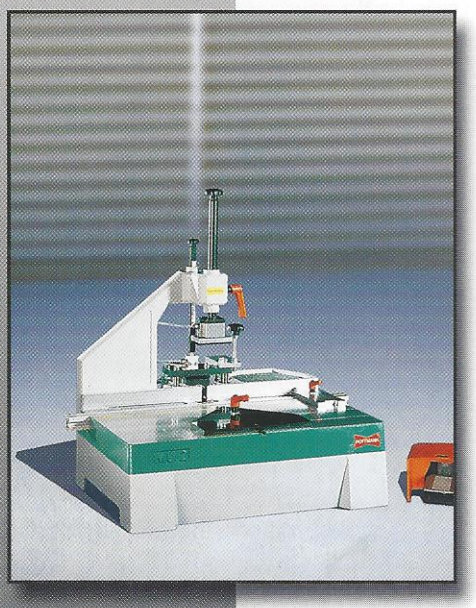
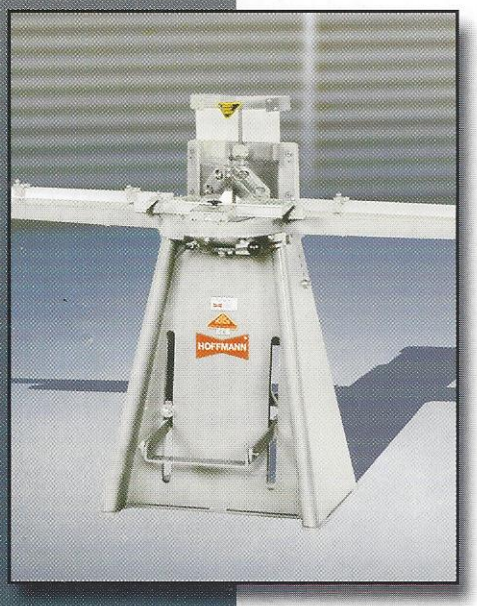
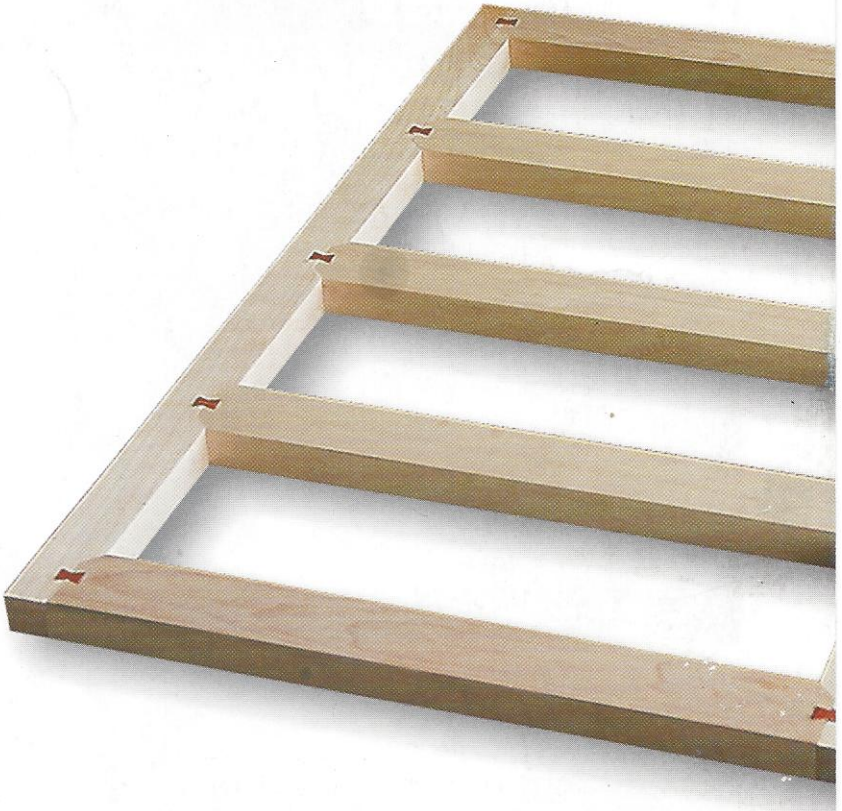
Hoffmann and MORSO

...the solution to profitable face-frame construction is here!



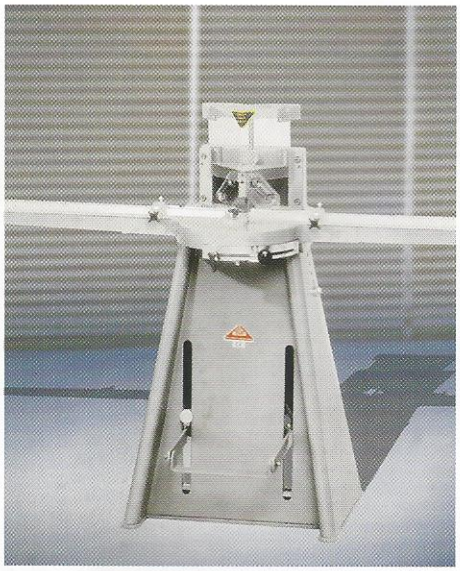




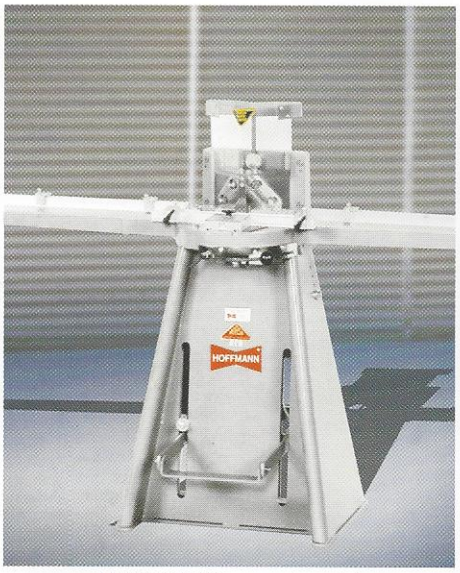
HOFFMANN

MORSO Notching Machines

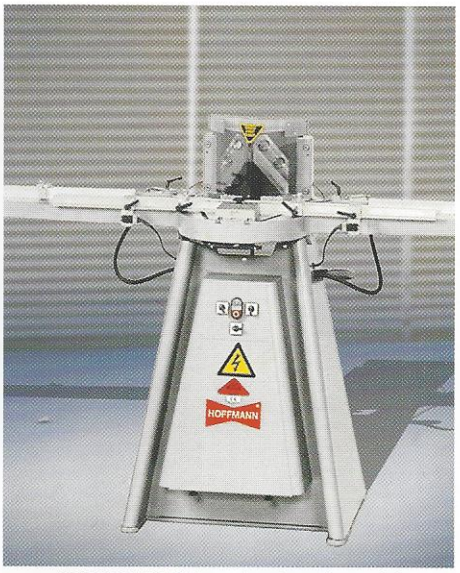
The MORSO NF (manual) and NEH (semi-automatic) series of guillotine style notching machines are specifically designed for the fast and accurate processing of beaded face-frame stiles and rails. The manual machines are operated by depressing a foot pedal and by moving a hand lever to control the cutting head, the semi-automatic models are equipped with two-hand safety buttons and are PLC controlled.



MORSO NFL manual model



MORSO NFXL manual model



MORSO NXLEH semi-automatic model

Both the notching as well as the coping operations are done on the same machine, and variations in material width (e.g. wide top or bottom rails) can be accommodated without changing the bead size adjustment or the length stop settings.

Notching Operation (stiles)

Upon adjusting the cock-bead stops to set the notching depth, the moulding is placed on the machine table and one end is rested against a flip-stop. The hand lever in front is used to move the cutting head horizontally to and from the operator.

Cutting the end notch with an NFL machine

Depending on the width of the cut and the thickness and hardness of the moulding, two to four cuts are made to complete the notch.

Cutting the center notch with an NFL machine

Coping Operation (rails)

The rail is placed on the table and pushed against the center stop. The 45-degree corner cut on the bead is made in one cycle, multiple cuts are not necessary.

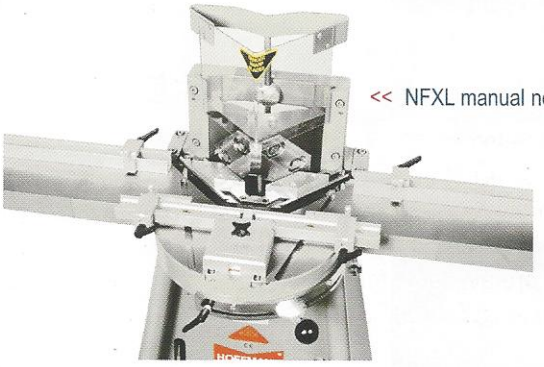
Coping operation on NFL model

MORSO Models

MORSO notching machines are available in four different models:

NFL: manual, foot-operated machine for up to 70mm wide moulding.
NFXL: manual, foot- operated machine for up to 200mm wide moulding.
NLEH: semi-automatic, push-button operated machine for up to 70mm wide moulding.
NXLEH: semi-automatic, push-button operated machine for up to 200mm wide moulding.

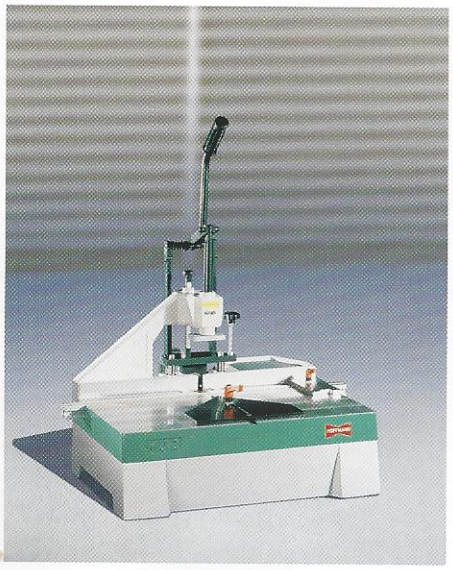
NFL manual notching machine >>



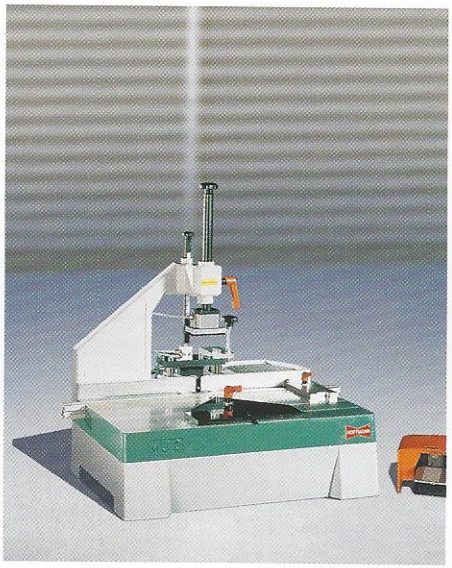
<< NFXL manual notching machine

Hoffmann Dovetail Routing Machines

The Hoffmann MU-2 and MU2-P are bench-top Dovetail Routing Machines, the PU-2 is a freestanding floor model. The machines are used to rout dovetail shaped keyways into solid wood or wood related sheet goods, e.g. MDF, plywood, etc. Glue is applied to the mating surfaces and Hoffmann Dovetail Keys are inserted to align and pull the joint together.



Hoffmann MU-2 manual model



Hoffmann MU-2P pneumatic model

Hoffmann PU-2 freestanding model

Aside from being used for miter joints, butt joints, compound miters, etc. the machines can also accurately rout keyways into bead moulded notch joints

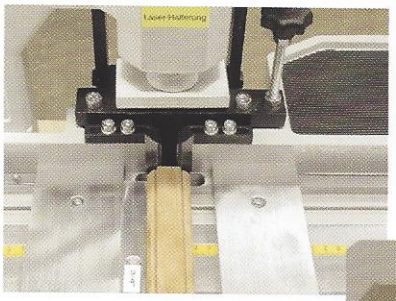
The fixtures are used to locate and rout one or two keyways in the "notch" of the stiles as well as into the coped ends of the rails. Once set, they will positively locate the notch in relation to the router bit. Keyways are routed in the coped rail ends with the aid of aluminum stops - it is not necessary to re-adjust the router bit when changing from stiles to rails!

Routing Operation

The moulding is placed on the machine table and positioned with the fixtures, then the router bit is raised up from below the table until the pre-set routing height is reached. TThis operation is either done manually by pulling on the main lever on the MU-2 models, or by stepping on the foot pedal of the automatic MU2-P and PU-2 routing machines.

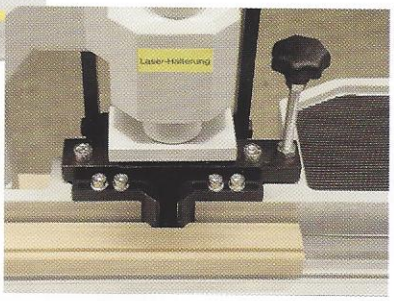
When two parts are drawn together using a Hoffmann Key, a precise, durable and accurate joint is produced without the aid of clamps or alignment jigs.

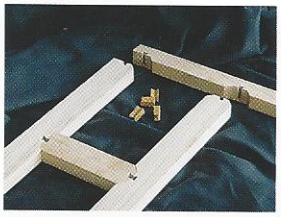
(All pictures show the fixtures and operation on the MU-2 manual Dovetail Machine.)

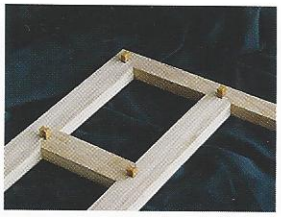


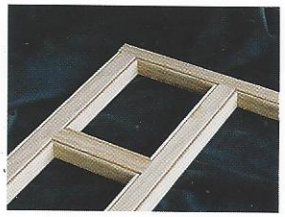
Left:
Fixture set-up for one keyway in coped rail.

Below:
Fixture set-up for one keyway in notched stile.









Dovetail Key Selection for Beaded Face-Frames:
Plastic Dovetail Keys in size W2 - 15.8mm are recommended for 18 – 20mm thick moulding.
Plastic Dovetail Keys in sizes W2 - 18 and W2 – 20.6mm are recommended for 22mm to 25mm thick moulding.
Longer Keys are available for thicker material, in fact Dovetail Keys are available from 6mm up to 100mm in length, in approximately 40 different sizes.

The Benefits

The Hoffmann Beaded Face Frame System offers cabinet and millwork shops of all sizes a fast, precise and efficient way to manufacture beaded face frames, whether it's one or one hundred frames per job. Starting with beaded moulding, the stiles are notched and the rails are coped on a fixed-blade, guillotine style notching machine.

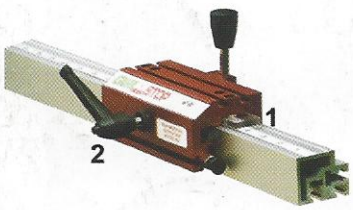
A second step takes place on a Hoffmann dovetail routing machine equipped with special fixtures for the notched material. Dovetail keyways are routed in all mating parts and the frames are assembled simply with glue and Dovetail Keys. No large clamping tables or bar clamps are required, the frames can be sanded and finished immediately upon assembly.

All dovetail routing machines are set-up with a complete fixture set to process stiles and rails, but can also be used to process regular miter joints, compound miter joints and butt joints.

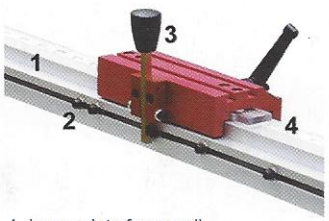
Optional DGS 1000 Fence System for all MORSO models

A complete GlideStop fence system is available as an option for all MORSO notching machines. This upgrade offers the following benefits:

- Fully adjustable index stops can be set at any point along the fence rails for repeated accuracy
- Index Stops can be spaced as close as 14mm apart
- Twenty index stops are included in the basic package, additional Stops can be added anytime
- Index stops can be by-passed at any time without moving or re-setting
- Self-adhesive tape scales on both fence rails for accurate positioning in mm increments
- Offers the benefits of twenty standard flip-stops at a fraction of the cost
- Includes two 1.5m long fence rails, index pins, GlideStop bracket, left and right hand tape scale and mounting brackets for all MORSO machines



1. hairline pointer for tape scale
2. locking lever



1. heavy-duty fence rail
2. index stops
3. contact arm
4. tape scale

Technical Specifications

Technical Specifications: Morso NFL and NFXL

Max. moulding width:	70mm - NFL 203 mm - NFXL
Max. moulding thickness:	160mm
Nose knife capacity:	12mm - 26mm with standard cutting head 6mm - 20mm with optional smaller cutting head
Width incl. fence rails:	3000mm
Depth incl. scrap chute:	600mm
Machine weight:	100 Kg

Technical Specifications: Morso NLEH and NXLEH

Electrical Supply:	220 volts, single phase, 50 Hz - 1,1 KW, 10 Amp.
Operation:	Electro-hydraulic, PLC controlled
Max. moulding width:	70mm - NLEH 203 mm - NXLEH
Max. moulding thickness:	140mm
Nose knife capacity:	12mm - 26mm with standard cutting head 6mm - 20mm with optional smaller cutting head
Width incl. fence rails:	3000mm
Depth incl. scrap chute:	600mm
Machine weight:	145 Kg

Technical Specifications: Hoffmann MU-2

Power Supply:	220 volts, 50 Hz, 450 watts
Motor speed:	27,000 rpm
Max. routing height:	85mm
Max. material height:	120mm
Key sizes:	W-1, W-2, W-3 (W-4 with optional larger motor)
Weight:	29 Kg

Technical Specifications: Hoffmann MU-2P

Power Supply:	220 volts, 50 Hz, 450 watts
Motor speed:	27,000 rpm
Air Supply:	6 bar
Max. routing height:	75mm
Max. material height:	150mm
Key sizes:	W-1, W-2, W-3 (W-4 with optional larger motor)
Weight:	32 Kg

Technical Specifications: Hoffmann PU-2

Power Supply:	220 volts, 50 Hz
Routing motor:	1,000 watt, heavy-duty construction, built-in over-load protection
Routing speed:	33,000 rpm
Air Supply:	6 bar
Max. routing height:	115mm
Max. material height:	150mm
Key sizes:	W-1, W-2, W-3, W-4
Weight:	119 Kg

GlideStop on NFXL model

GlideStop on NFL model

HOFFMANN

Hoffmann Machine Company, Ltd.

Unit 8, Borrowdale Business Park Whitegate Whitelund, Morecambe Lancashire LA3 3BN UK

Tel: 01524-841-500 www.Hoffmann-UK.com e-mail: enquiries@hoffmann-uk.com