Love using harder wood mouldings but hate joining them?
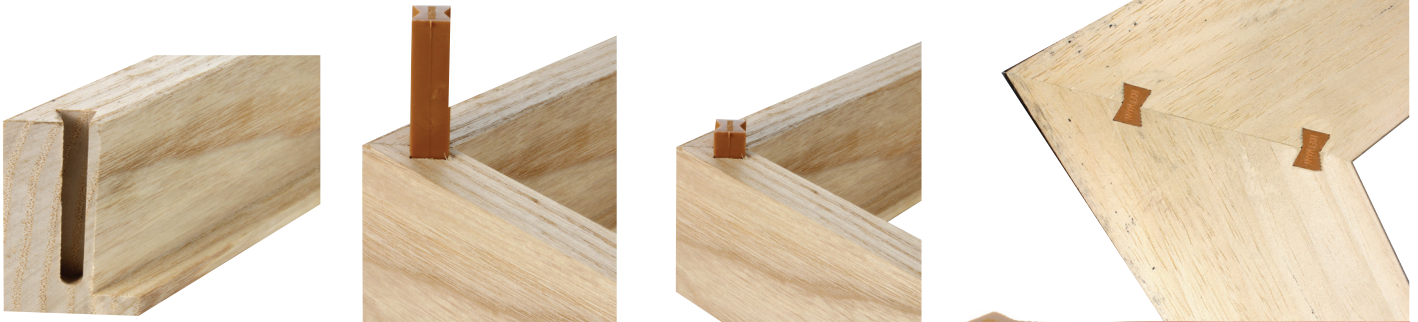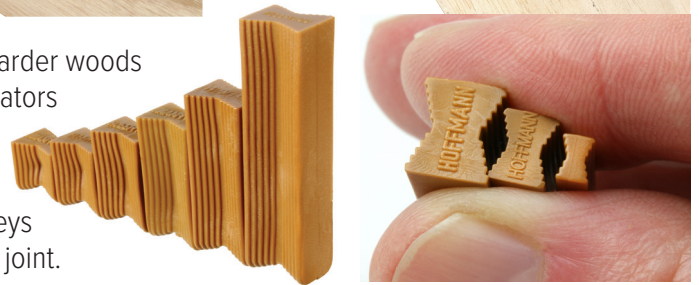
HOFFMANN®

Picture Frame Corner Routing & Joining System

The dovetail joint is a classic way of joining timber. On some harder woods and profiles, even the very best underpinners and skilled operators can struggle to get a good join.

Precision engineered Hoffmann machines rout a dovetail slot in the faces of the mitre. Specially shaped moulded dovetail keys are then tapped in to give an extremely tight and secure mitre joint.

HOFFMANN® MU2-P
Pneumatic

HOFFMANN® X-Line 20
Manual

Ask about the new MU3-P

X line 20

MU2

HOFFMANN

LION

HOFFMANN

X-Line 20
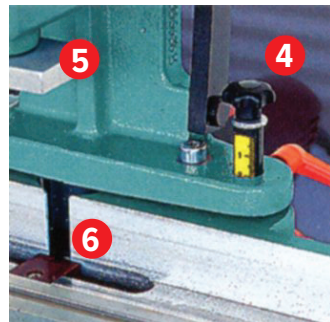
Manual Dovetail Routing Machine

- Easily adjusted to suit different mouldings:
  - W0 keys, min 9mm wide.
  - W1 keys, min 10mm wide.
  - W2 keys, min 20mm wide
- Adjustable for dovetail keys up to 80mm
- Maximum moulding height 110mm
- Auto motor switch

X-line 20

Bench-top manual machine, for routing a single dovetail slot with each machine cycle. Works with Hoffmann Keys W-0, W-1, W-2 and W-3. Order with W-1 or W-2 router bit, as below.

Machine features
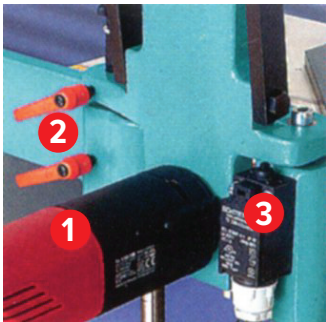
1 Motor
2 Router depth setting
3 Micro switch for motor
4 Router depth setting
5 Work-piece clamping
6 Chip-breaker

X-line 20 - *Technical Data*

Max moulding height: 110mm, Max routing depth: 80mm
Takes router bits for Dovetail Key types: W-0, W-1, W-2 & W-3
Motor: 230V 50/60Hz, 530W, 29,000 rpm.
Pneumatic: 6 bar, Waste extraction port: 60mm
Dimensions: w600, d540, h770mm. Weight: 19 kg

Code	Description	Option	Price
7819A	Hoffmann X-line 20	with W-1 bit	£1170.00
7819	Hoffmann X-line 20	with W-2 bit	£1170.00
7837	Chip Breaker		£4.12

Getting started with Hoffmann X-Line 20

Put router on a firm table, connect it to 13a socket and a dust extractor.

Decide whether you will use W-0, W1 or W2 keys, and fit matching router bit. Select dovetail key length, which typically, will be app 2/3 of the height of the moulding.

To adjust, offer key up to height adjuster gauge, pic A. Release upper lever then lower lever. Raise measure until scale is app 2mm more than key. Lock lower lever.

To position the moulding, turn it end-over-end, pic B. Align centre line of slot with indicator, adjust and lock black plate.

Prepare to rout the dovetail slot

Position moulding with rebate facing away from operator. Slide in the other piece of moulding, to give slight overlap, pic C. This helps ensure that the top pressure pad applies even pressure.

Routing the slot

Hold moulding in place and pull handle. As top pressure pad contacts the moulding, the router motor will start and the router will come up and rout the dovetail slot.

Lift moulding and check dovetail slot. Adjust black plate and depth setting as required. Rout both ends of each piece.

For wider mouldings, using two keys, adjust black plate for position of the first slot and rout all four pieces. Then re-adjust for position of second slot and rout them again.
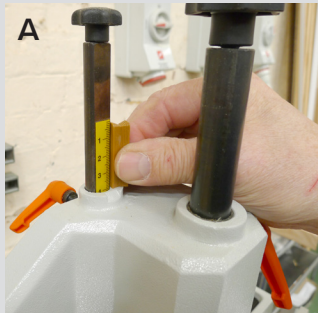
Assembling the frame

On a firm surface, hold the first two pieces to be joined face down. Insert the key and tap it home with a soft face hammer.
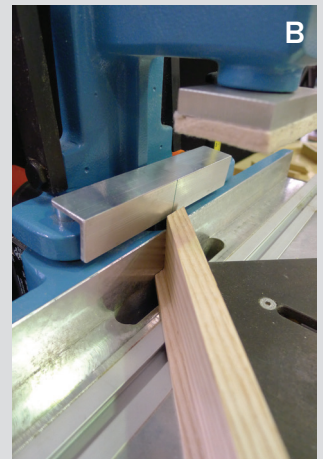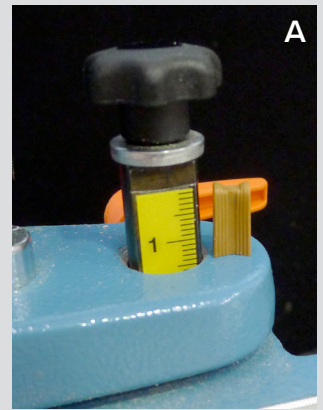
MU2-P versus the X-Line 20

The main difference between MU 2-P and the X-Line 20 is that it has a pneumatic action to operate the top clamp and to drive the router bit up through the moulding.

Getting started with Hoffmann MU2-P

A

Put router on a firm table, connect to compressed air supply, a 13 amp socket and a dust extractor. Decide whether you will use W1 or W2 keys, and fit matching router bit.

Select dovetail key. Typically, this should be app 2/3 of the height of the moulding. Offer key up to height adjuster gauge, pic A. Release orange lever and raise measure until scale reveals app 2mm more than height of key.
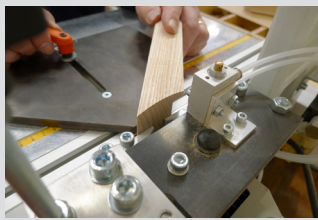
To position the moulding, turn it over, end to end. Line up centre line of slot with indicator and adjust and lock black plate.

Routing the dovetail slot

Position moulding with rebate facing away from operator. Slide in the other piece of moulding, to give a slight overlap, pic B. This helps ensure that the top pressure pad applies even pressure.

Hold moulding and adjust height of top pressure pad. This should be app 2mm above top of moulding. The motor will start when you operate foot switch. The top pressure pad will come down and the router bit will rise up through the moulding and cut the dovetail slot.

B

Check slot and adjust setting as required. Then swap position of mouldings and repeat. Do this on each end of all four pieces.

C

For wider mouldings, using two keys, adjust black plate for position of the first slot and rout all four pieces. Then re-adjust for position of second slot and rout them again.

Assembling the frame

D

On a firm surface, hold the first two pieces to be joined face down. Insert the key and with a soft face hammer, tap home the key, pics C & D.
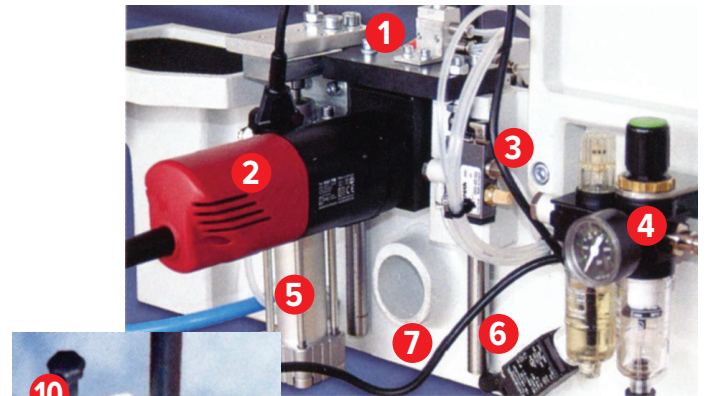

HOFFMANN
MU2-P
Pneumatic Dovetail Routing Machine

- Adjusts to suit mouldings, min 20mm wide
- Adjustable for dovetail keys up to 75mm
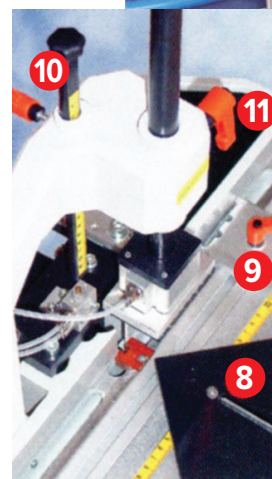- Maximum moulding height 150mm

Ask about the new MU3-P

Bench-top machine, for routing a single dovetail slot with each pneumatic machine cycle. Works with Hoffmann Keys W-0, W-1, W-2, W-3 and W-4. Order with W-1 or W-2 router bit, as below.

Machine
1. Return valve
2. Router motor
3. Valve for clamp
4. Pressure regulator
5. Drive cylinder
6. Limit-switch for motor
7. Extraction port, 60mm

Operation
8. Angle fence 45°
9. But-stop
10. Routing depth adjustment
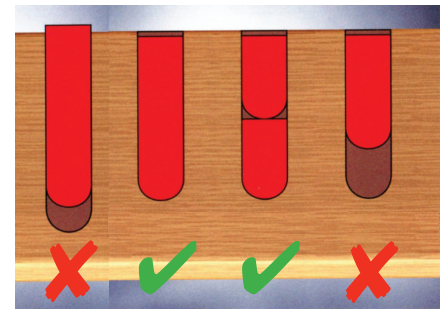11. Work-piece clamping

MU2-P - *Technical Data*

Motor: 230V 50/60Hz 1000W, 34,000 rpm. Pneumatic: 6 bar
Max height: 150mm, Max routing depth: 75mm
Takes router bits for Dovetail Key types: W-1, W-2, W-3 & W-4
Dimensions: w600, d540, h770mm. Weight: 32 kg

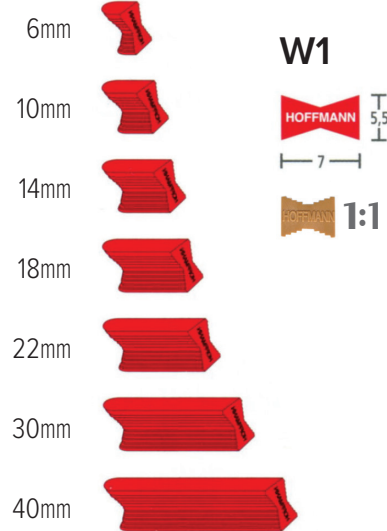| Code	Description	Bit	Price
7820A	Hoffmann semi-auto MU2-P	with W-1 bit	£2595.00
7820	Hoffmann semi-auto MU2-P	with W-2 bit	£2595.00
7837	Chip Breaker		£4.12

HOFFMANN Dovetail Keys

The obliquely converging inner surfaces of the Hoffmann Dovetail Keys bite into the wood, creating a super strong and tight joint.
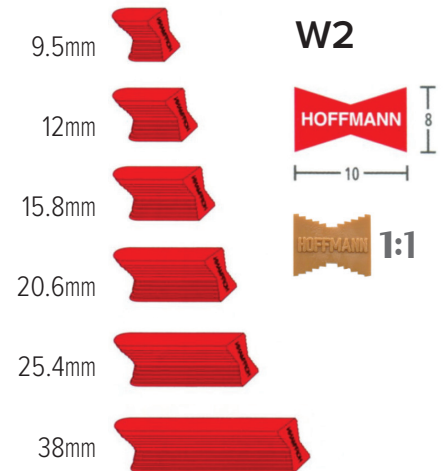
W2

7826

W0

HOFFMANN 3.2 / 4.3

1:1

NEW

1:1

9884
9883
9882

HOFFMANN W0 Dovetail Keys

9882	10mm	200	£10.11
9883	22mm	200	£12.36
9884	35mm	200	£13.58

HOFFMANN Internal Fences

7835	Internal Fences Left & Right	£ 142.00

HOFFMANN Butt Stop

Incuded with machine

7961	Butt Stop	£52.61

W1

6mm
10mm
14mm
18mm
22mm
30mm
40mm

HOFFMANN 5,5 — 7 —

HOFFMANN 1:1

HOFFMANN W1 Dovetail Keys

7871	6mm	200	£11.02
7872	10mm	200	£11.32
7873	14mm	200	£12.49
7874	18mm	200	£13.67
7875	22mm	200	£13.97
7876	30mm	200	£14.86
7877	40mm	200	£15.45

HOFFMANN Router Bits

W4
W3
W2
W1

9881	Router Bit 6mm W0	TC NEW	£61.92
7878	Router Bit 6mm W1	TC	£61.92
7836	Router Bit 6mm W2	TC	£57.46
7958	Router Bit 6mm W3	TC	£64.18
7959	Router Bit 8mm W4	TC	£121.15

Chip Breaker included with each router bit.

HOFFMANN Chip Breaker

7837	Chip Breaker X20 & MU 2-P	£ 4.12

W2

9.5mm
12mm
15.8mm
20.6mm
25.4mm
38mm

HOFFMANN 8 — 10 —

HOFFMANN 1:1

HOFFMANN W2 Dovetail Keys

7821	9.5mm	200	£15.24
7822	12mm	200	£15.24
7823	15.8mm	200	£15.59
7824	20.6mm	200	£16.51
7825	25.4mm	200	£16.85
7826	38mm	200	£18.98

Dovetail Key positions

❶ ✔

❷ ✖