# Machine Technology

Routing Machines, Double Mitre Saw & CNC Controlled Machining Centres

# ...die Hoffmann-Schwalbe



Pricelist 2004 - The Hoffmann Dovetail Window www.hoffmann-schwalbe.de

HOFFMANN

# Machine Technology



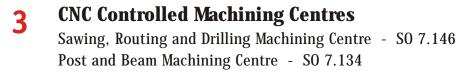
# Special machine

for the processing of the "Hoffmann-Dovetail Window" PP 2-FR  $\ensuremath{\mathsf{PP}}$ 



# **Double Mitre Saw**

MS 35





# Hand Routing Unit

# Pricelist 2004 - The Hoffmann Dovetail Window

www.hoffmann-schwalbe.de

# Machine Technology

Hoffmann offers a complete range of machinery.

The working cycle of each machine is designed to be as efficient and safe as possible, therefore the right machine for each application can be selected.

From the manually operated bench-top models to freestanding machines with multifunctional characteristics.

- > Manual
- > Semi-automatic
- > CNC-controlled processing

### Double Mitre Saw

MS 35

The Hoffmann MS 35 Double mitre saw is the perfect machine for precise mitre cuts.

The machine is designed with consideration not only for high productivity but most important for quality of cut. Veneered or polished profiles, aluminium parts, plastic extrusions and many other materials can be processed with this double mitre machine.

An in-feed table (2.5 m net) is attached to the left of the machine for optimal positioning of the material. The fence table with digital stop (2.5 m net) is attached to the right of the machine for precise measurement control.

### **Technical specifications**

Power supply Pneumatic supply Motors Speed Control panel / Clamping Material section

3ph/n/PE 230/400V 50/60Hz 3.6 kW 6 har 2 x 1.8 kW / spindle 30 mm 4000 1/min. pneumatic / pneumatic W 0-90 mm H 0-90 mm

# Pneumatic Dovetail Routing Machine

# PU 2-32/100

Free standing pneumatic model with 2 motors for processing work-pieces with 2 dovetail slots in each machine cycle. The motor cross-centres have fine adjustment between 32 mm and 100 mm. Fitted with 1000 W motors as standard. Solid cast table and large working surface.

### **Technical specifications**

Power supply Air supply Motors Motor speed Controls/work-piece clamping Height capacity Routing depth Dust extraction duct Hoffmann-key sizes Overall dimensions W/D/H

6 bar 2 x 1000 W 33000 1/min. pneumatic / pneumatic 210 mm 0-115 mm Ø 100 mm W-1/2/3/4 (opt.) 1000/750/1500 mm

1ph/N/PE 230V 50/60Hz 2 kW

# Chip breaker

- 1. Chip breaker carriage 2. Chip breaker positioning
- 3. Positioning bolt



## Features

- > Staunch cast table.
- > Waste shute
- Feed control >
- Bosch pneumatics >
- Emergency stop >
- 8 individually selective clamping cylinders. >
- Precision linear guides >
- Efficient 3 phase motors >
- Tungsten carbide tipped saw blades >
- Ø 350 mm x 30mm

### Tooling

Dust extraction duct Overall dimensions W/D/H Weiaht Order No.

Operation

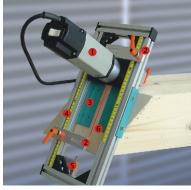
### Tungsten carbide tipped saw blade Ø350 mm x 30 mm 2 x Ø 100 mm 1470/950/1620 mm 620 kg W 105 0000

Hand Routing Unit

# MF-4

Portable, hand routing unit. For W-4 applications as in post and beam construction. Simple, hand held and light. Ideal for producing keyways in various on site situations.

Standard motor 1000 W.



- 1. Routing motor 2. Routing depth adjustment 3. Positioning plate

The machine cycle is activated by pressing the foot-pedal. The work-piece is clamped, the routers start and rise to the preset depth and then return to the home position at which the clamps are released. Positioning of the fence and router depth is made manually. The adjustments to the motor centres are made manually with a hand wheel and

### Hoffmann offset-drive unit

are set with the digital reader.



Hoffmann offset-drive unit, designed for high cutting speeds (up to 33000 1/min.)



4. Measuring scale 5. Positioning bolt 6. Pencil mark



## **Technical specifications**

Power supply Motor Motor speed Controls/work-piece clamping Routing depth Hoffmann-kev size Overall dimensions w/d/h Weight Order No

1ph/N/PE 230V 50/60Hz 1 kW 1 x 1000 W 33000 1/min manual / manual 0-220 mm W-4 200/300/460 mm 5 kg W 101 2000

# Pricelist 2004 - The Hoffmann Dovetail Window

www.hoffmann-schwalbe.de

# Hoffmann-Special - CNC Controlled Machining Centres

These CNC controlled multi-axis machining centres can be designed to your exact requirements and constructed to your desired specification.

When components require a series of processes, huge time savings can be made by integrating these processes in the one machine. Flexibility can be built in, by offering the choice or sequence of these processes by selection. Multi-function machines can operate with a selection of sequences active, as each component requires.

Sawing, Routing and Drilling Machining Centre

X

# SO 7.146

Machining centre for the processing of window frames, main frame and sash. Manual adjustment for length, dowel drilling units, keyway routing stations and dual hand control operation.

# Technical specifications

Motors	2 x 2.3 KW saw	2.3 KW saw arbor motors		
	4 x 1.0 KW routing motors 2 x 1.1 KW drilling motors			
Nominal speeds	saw blade	3.000 1/min.		
	routing	27.000 1/min.		
	drilling	3.000 1/min.		

**Dimensions W/D/H** Routing depth Compressed air Electrical connection

work-piece thickness max. Suitable material

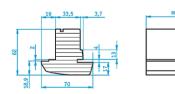
5000 x 1500 x 1500 mm 90 mm 90 mm 6 bar 3ph/N/PE 230/400V 50 Hz solid wood / particle board / MDF

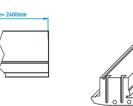
# Operation

The operator sets the desired work-piece length on the machine stop with the linear measuring system. On the machine control panel, the operator selects the desired machining units (cutting and routing / cutting, routing and drilling). After the work-piece is placed onto the machine table, the operator starts the automatic sequence with a dual hand control device. The work-piece is

clamped onto the material support and the machine cuts both ends at 45°, cuts the grooves and drills the dowel holes.

After the sequence has been completed, the processed part can be taken out of the machine.





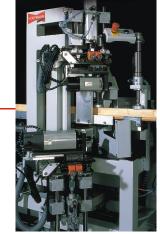
Stations at home position

### Machine design

Set-ups

steel solid welded machine stand pneumatic pneumatic interchangeable stops Ø 100 mm W-1, W-2, W-3 400mm saw blade / drills (8x80) W-3 cutter automatic length adjustment (IPC) infinitely adjustable angles 0° to +45°

Material support



45°-processing

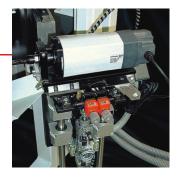








Drilling motor positioning



# Pricelist 2004 - The Hoffmann Dovetail Window

www.hoffmann-schwalbe.de

# Post and Beam Machining Centre

PP 2-FR

# Special machine for the processing of the "Hoffmann-Schwalbenfenster".

Equipped with 2 x 3 router heads and 2 x 2 boring units. Sashes as well as the main frames are processed with 3 Hoffmann-keys and 2 dowels per corner. Both parts to be joint are routed and drilled in one sequence.

All adjustments are factory set.

# 

# Operation

The machine cycle is activated by pressing the foot-pedal. The work-pieces are clamped, the routers start and travel to the preset depth and then return to the home position.

Both drilling units advance until they have reached the final hole depth and return to their home position at which the clamps are released. Positioning of the fence and routing/drilling depth is factory set.



# Machine design

Table
Machine stand
Tooling feed
Work-piece clamping
Stops/jigs
Dust extraction duct
Key sizes
Tooling
Set-ups

heavy aluminium table solid welded machine stand pneumatic pneumatic interchangeable stops Ø 100 mm W-1, W-2, W-3 drills (8x80) / W-2 and W-3 cutter manual adjustments for routing and drilling depth

- Positioning fence (sash/main frame)
  Angle fence (sash/main frame)
- 3. Work-piece clamping
- 4. Router heads 5. Control unit (PLC)

# Technical specifications

Power supply Air supply Motors Motor speed Controls/work-piece clamping Height capacity Routing depth vertical Dust extraction duct Hoffmann-key sizes Overall dimensions W/D/H Weight Order No. 3ph/N/PE 230/400V 50/60Hz 6.2 kW 6 bar 4x 1000 W / 2x 1100 W 33000 1/min. / 10000 1/min. PLC / pneumatic 100 mm 100 mm Ø 100 mm W-2/3 / Drill bit 8 mm 1300/900/1500 mm 320 kg W 108 7000

# Post and Beam Machining Centre **S0 7.134**

Heavy duty multi-spindle routing machine for large post and beam profiles. Separate routing stations for length and face processing in different angles.

# Technical specifications

### Motors Nominal speed Tooling Roller conveyor Dimensions W/D/H work-piece thickness max. Routing depth Compressed air Electrical connection Cycle time Suitable material

### 2 x 1.7 KW router motors 25.000 1/min. router shaft d = 8 mm 2 x 4000 mm 1850 x 1100 x 1600 mm 350 mm 250 mm 6 bar 3ph/N/PE 230/400V 50 Hz appr. 2 seconds / 20 mm depth solid wood

# Operation

With the integrated measuring devices, all dimensions are adjusted at the machine units with the work-piece in place. One routing unit cuts the grooves into the side of the post or beam profiles. A 3-axis station can be turned and raised according to the work-piece dimensions, whereby heavy parts can remain in place. The solid design and the choice of premium machine parts allow routing depths of up to 250 mm with high precision.

# Machine design Table

Machine stand Tooling feed Work-piece clamping Stops/jigs Dust extraction duct Tooling Set-ups

### solid steel table welded machine stand pneumatic pneumatic manual stops with measuring scales Ø 2 x 100 mm W-4 router cutters manual setting of routing depth and position



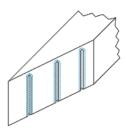


Clamping devices





Custom colour available



	-	 220	-
220			



Face processing



Stop system





3-axis routing station