



Holzbearbeitungsmaschinen - Woodworking machinery - Machine à bois

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Order No	07-A1-1133
Produce / Type	MAIER / Passage drilling machine OBK 1
Year / produced. no	1970 / 21.700-70
electric	400 Volt / 50 Hz.
power	kW

Order Nr. 07-A1-1133

MAIER Passage drilling machine OBK 1

Machine :	passage drilling machine
Manufacturer :	MAIER
Type :	OBK 1

Technical details :

Working width max.:	approx. 2500 mm
Pitch :	approx. 32 mm
Voltage :	380 V / 50 Hz

With automatic transport for passage of the working pieces.

Description

The left side of the machine is fixed, the right side is adjustable over the whole machine length. Transport of working pieces by belts, drilling of dowel- and framework support holes, vertical from the bottom by means of a drilling frame with rotatable multi spindle drilling heads. Drilling of front side dowel holes by two horizontal drilling spindle boxes.

Frame

Heavy duty steel construction with cross beam, build-in drilling frame and guide for the adjustment of the horizontal aggregates, as well as the tables for transport and to put on the workings pieces.

Drilling frame

Drilling frame placed in a maintenance free, dust protected anti friction bearing guides, moved by feed cylinder, with passage prism guides, gear rack and scales for the support and adjustment of the vertical drilling sledge.

Vertical drilling sledge

Exact parallel adjustment to scale by hand wheel over torsion shaft on drilling frame, drilling sledge with drilling aggregates adjustable to scale with flange mounted motor to hold rotating drilling heads.

Horizontal drilling aggregates

The right hand side one adjustable in length over the vertical aggregates, by means of hand wheel drilling spindle box height adjustable to scale equipped with flange mounted motor. Moved by a feed cylinder in dust protected friction bearing guide.



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Cross beam

Lateral adjustment over the drilling station, equipped with 4 vertical pneumatic clamping devices.

Transport tables

Adjustable over the whole machine length, with electric brake gear, driven transport belt equipped.

Positioning of the working pieces

By means of 3 compressed pneumatic cylinders, after stops.

Stops

Lateral stops moved by pneumatic cylinders, adjustable to exact scales.

Working piece tables

4 adjustable and easily removable working piece tables.

Feed

Several feed movements by pneumatic cylinders, feed speed infinitely adjustable, return movement accelerated.

Drilling heads

Drilling heads of the multi spindle drilling heads geared in friction bearings and driven by cog wheels, for the holding of tools equipped with female thread. Drive by flange motors by elastic couplings.

Control

Automatic running by means of end switch, protection switches and solenoid valves, the complete switch- and control device mounted in a separate switchboard, dust protected, on the left hand side of the machine. Several operating buttons and switches summarised on the control panel.

Range of delivery

- Complete machine including multi spindle drilling heads for the connection to a compressor
- 1 set of operating keys
- without drilling tools and without mounting and start-up

Equipment

- # 5 vertical drilling sledges
- # 2 drilling aggregates with drive motors
- # Multi spindle drilling head with 8 spindles $7 \times 32 = 224$ mm
- # 2 horizontal drilling spindle boxes with 18 spindles $17 \times 32 = 554$ mm in line

Number of spindles of the 2 drillings heads with each 18 spindles =	36
Number of spindles 10 drilling heads with each 8 spindles =	80

Total	116 drilling spindles



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Technical details

Working piece length max. approx. .	2500 mm
Working piece length min. approx.	100 - 200 mm
Working piece width max. approx.	700 mm
Pitch drilling aggregate in transversal direction approx.	150 - 450 mm
Pitch between 2 drilling sledges min. approx.	190 mm
Pitch between the outer most drilling sledges max. approx.	2500 mm
Power 2 drive motors of the 2 horizontal aggregates approx.	2,3 PS
D= horizontal drilling spindles approx.	5500 U/min.
D= vertical drilling spindles approx.	3000 U/min.
Female thread of the drilling spindles	M 10
Drilling depth vertical max. approx. .	30 mm
Horizontal aggregates height adjustable approx.	30 mm
Drilling depth horizontal max. approx. .	40 mm
Power of the transport drive motor approx.	0,75 PS
Transport speed approx.	36 m/min
Precision to read of the scales	0,1 mm
Required compressed air pressure approx.	6 at.
Air consumption per working cycle approx. .	10 L
Electrical connection approx.	23 kW 380 V / 50 Hz
Weight of the machine net approx.	4300 kg
Dimensions length x width approx.	4,3 x 2,3 m

Machine extensions

6 multi spindle drilling heads to put in the vertical drilling aggregates
17 drilling spindles 16 x 42,5 = 680 mm pitch

Construction with guide on cross beam and build in electrical control
for eventual mounting of a slotted hole milling aggregate.





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