

OPTImill®* MB 4P / MB 4PV

Universal drilling/milling machine with digital position display DRO 5 and cast machine chassis. MB 4PV with continuously variable electronically controlled drive

Facts that impress in terms of quality, performance and price

- ▶ Heavy, solid cast design
- ▶ Smooth action due to polished gearwheels running in an oil sump
- ▶ Right-handed/left-handed rotation
- ▶ Automatic spindle sleeve feed with manual fine feed
- ▶ Motorised positioning of the Z axis
- ▶ Motorised table feed on X axis
- ▶ Coolant system
- ▶ Machine lamp
- ▶ Gear head pivots through $\pm 60^\circ$
- ▶ Adjustable cleats
- ▶ Solid dovetail guide on column, hand honed for maximum stability and greatest possible precision
- ▶ Height-adjustable, large protective screen with micro switch
- ▶ Drilling depth stop
- ▶ Digital position display DRO 5

- ▶ Drilling/Thread tapping function
- ▶ Solid and generously dimensioned cross table with precision surface finish with T-slots and adjustable cleats
- ▶ Solid cast machine chassis with chip channel

MB 4P:

- ▶ Two-stage industrial quality electric motor
- ▶ Large speed range from 95 - 3 200 rpm thanks to 12 switchable speeds

MB 4PV:

- ▶ Single-speed, premium, industrial electric motor
- ▶ Large speed range from 60 - 2 760 rpm thanks to 2 continuously variable speeds



Fig.: MB 4PV



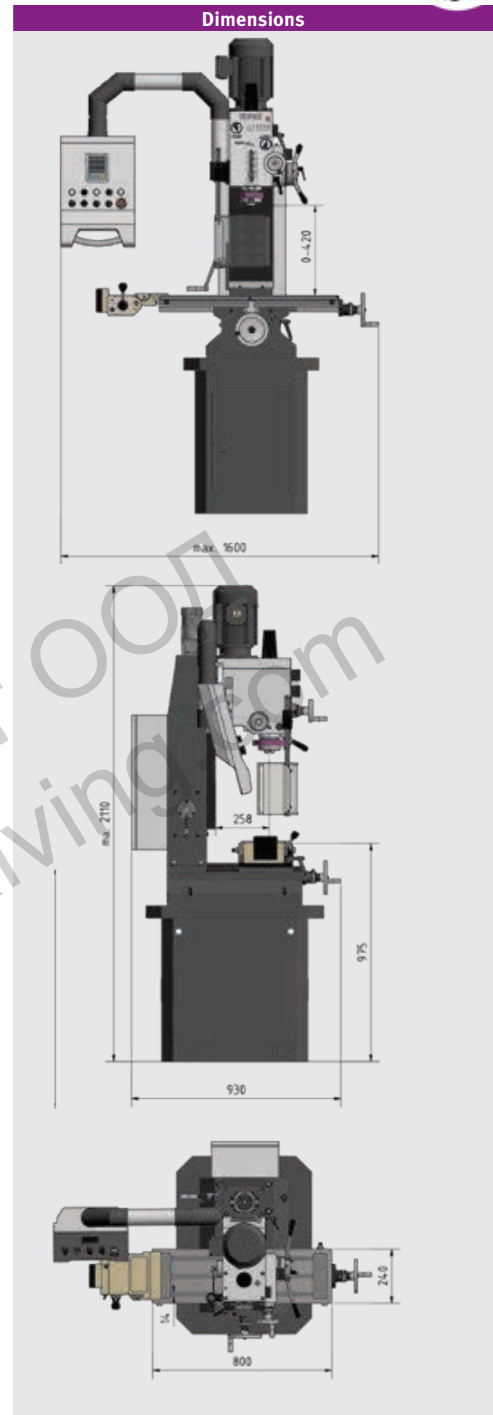
Technical specifications, accessories and dimensions

Model	MB 4P	MB 4PV***
Article no.	3338460	3338465
Technical data		
Electrical connection	400 V / 3 Ph ~50 Hz	230 V / 1 Ph ~50 Hz
Motor output	1.1 / 1.5 kW	1.5 kW
Coolant pump motor	100 W	
Drilling/milling output		
Drilling performance in steel (S235JR)	Ø 32 mm	Ø 24 mm
Continuous drilling performance in steel (S235JR)	Ø 28 mm	Ø 20 mm
Max. sensor head size	Ø 63 mm	Ø 63 mm
Max. shaft milling cutter size	Ø 28 mm	Ø 26 mm
Spindle		
Spindle sleeve stroke	120 mm	
Spindle seat	MT 4	
Spindle sleeve diameter	75 mm	
Throat	258 mm	
Draw-in rod	M16	
Drilling/milling head		
Spindle speeds	95 - 3 200 rpm	60 - 2 760 rpm
Speeds	2 x 6 speeds	2 speeds, electronically controlled
Pivot range	± 45°	± 45°
Cross table		
Clearance spindle to cross table max.	420 mm	
Length x width	800 x 240 mm	
T-slot size / spacing / count	14 mm / 80 mm / 3	
Automatic spindle sleeve feed	0.1 / 0.18 / 0.26 mm/rev	
Travel		
X axis	manual 560 mm / automatic 480 mm	
Y axis manual	195 mm	
Z axis manual	350 mm	
Dimensions		
Length x width x height	1 600 x 930 x 2 110 mm	
Weight	495 kg	

Scope of supply

- › Machine chassis
- › Morse taper MT 3/B16
- › Adapter MT 3 - MT 4
- › Draw-in rod M16
- › Operating tool

Accessories	Article no.
Parallel shim set, 20-part	3354001
Horizontal-vertical rotary indexing table RT 150	3356150
Horizontal-vertical rotary indexing table RTE 165	3356365
Height-adjustable tailstock RST 1	3356155
Height-adjustable tailstock RST 2	3356157
Assortment of clamping tools size 12, 58-parts	3352017
End mill set HSS TiN-coated 12-part	3352250
End mill set HSS TiN-coated 20-part	3352255
Copying and facing blade MT 4	3350214
Vibration dampers SE1 (4 pcs. required)	3381012
Bore head set MT 4	3352084
Arbor for drill chuck MK4	3350304
Collet chuck MT 4/M16	3352094
Thread tapping chuck M3 - M12	3050705
Thread tapping chuck M8 - M20	3050706
› More „Accessories for milling machines“ from page 130	



Machine vices	Article no.
FMS 100	3354100
FMS 125	3354125
HMS 100	3355100
FMSN 125	3354120
VMQ 100	3354181
MV3-75	3354175
DAS 100	3355500
ZAS 50	3354170
› Information about vices from page 120	