

OPTImill[®]* MB 4

Universal precision drilling/milling machine with manual gearbox for optimum power transmission

Facts that impress in terms of quality, performance and price

- ▶ Heavy, solid cast design
- ▶ Two-stage industrial quality electric motor
- ▶ Operation-friendly control panel with emergency stop shock switch
- ▶ Thread tapping function
- ▶ Height-adjustable, large protective screen
- ▶ Manual spindle sleeve feed with fine feed
- ▶ Smooth action due to polished gearwheels running in an oil sump
- ▶ Drilling depth stop
- ▶ Large speed range from 95 - 3 200 rpm thanks to 12 different speeds
- ▶ Right-handed/left-handed rotation
- ▶ Gear head pivots through $\pm 60^\circ$
- ▶ Column with dovetail guide, hand honed
- ▶ Solid and generously dimensioned cross table with precision surface finish and adjustable cleats
- ▶ Adjustable cleats

Thread tapping



- > The motor is activated by moving the spindle sleeve down
- > When the preset depth is reached, the spindle reverses
- > The machine thread tapping drill moves back out of the workpiece
- > When the spindle sleeve has moved in to the switching point, the spindle rotation is stopped

Accessories

Steel chassis

Dimensions L x W x H: 650 x 550 x 750 mm

Art. no. 3353014

Vibration dampers machine base SE 1

(4 pcs. needed)

Art. no. 3381012



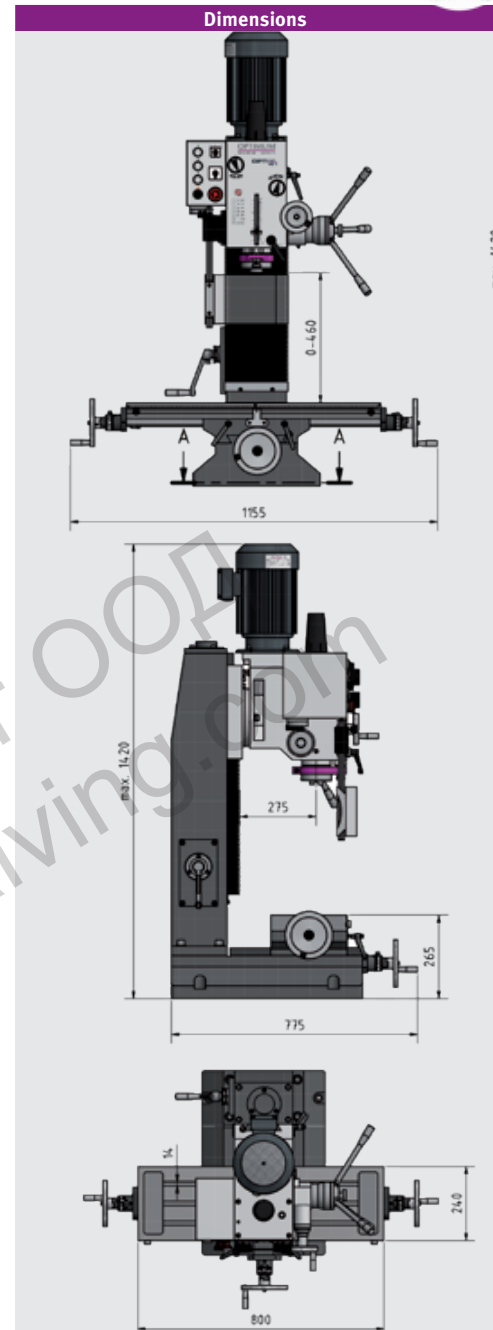
Fig. MB 4 with optional accessories



Technical specifications, accessories and dimensions

Model	MB 4
Article no.	3338450
Technical data	
Electrical connection	400 V / 3 Ph ~ 50 Hz
Motor output	1.1 / 1.5 kW
Drilling/milling output	
Drilling performance in steel (S235JR)	Ø 32 mm
Continuous drilling performance in steel (S235JR)	Ø 28 mm
Max. sensor head size	Ø 63 mm
Max. shaft milling cutter size	Ø 28 mm
Spindle	
Spindle sleeve stroke	120 mm
Spindle seat	MT 4
Spindle sleeve diameter	75 mm
Throat	275 mm
Draw-in rod	M16
Drilling/milling head	
Spindle speeds	95 - 3 200 rpm
Speeds	2 x 6 speeds
Pivot range	± 60°
Cross table	
Length x width	800 x 240 mm
T-slot size / spacing / count	14 mm / 63 mm / 3
Load bearing capacity	80 kg
Clearance spindle to cross table	460 mm
Travel	
X axis	450 mm
Y axis	195 mm
Z axis	430 mm
Dimensions	
Length x width x height	1 155 x 775 x 1 420 mm
Weight	320 kg

Accessories	Article no.
Parallel shim set, 20-part	3354001
Horizontal-vertical rotary indexing table RT 100	3356110
Horizontal-vertical rotary indexing table RT 150	3356150
Horizontal-vertical rotary indexing table RTE 165	3356365
Height-adjustable tailstock RST 1	3356155
Assortment of clamping tools size 12, 58-parts	3352017
T-slot nut M12 / 14 mm	3353025
Blank holder 14 mm	3352031
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
Levelling platen SE 55 (4 pcs. required)	3352981
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
Universal table feed V99	3352022
Assembly kit V99 - X axis	3352035
Universal coolant unit 230 V	3352002
Coolant mist lubricator MMC 1 with magnetic holder	3356663
Coolant hose KMS 2	3356660
Steel chassis (information on page 135)	3353014
› More „Accessories for milling machines“ from page 130	



Scope of supply

- › Adapter MT 4 - MT 3
- › Draw-in rod M16
- › Operating tool

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