

Universal precision drilling-milling machine with two-stage drive motor and shift gearbox

Facts that impress in terms of quality, performance and price

- ▶ Heavy, solid cast design
- ▶ Quality industrial electric motor
- ▶ High running smoothness due to ground gear wheels running in an oil bath
- ▶ Right-/left-hand rotation
- ▶ Solid and generously dimensioned cross table with precision surface finish with T-slots and adjustable wedge bars
- ▶ Drill depth stop
- ▶ Manual sleeve feed with fine feed
- ▶ Feed spindle play adjustable and re-adjustable
- ▶ Operation-friendly control panel with emergency stop shock switch
- ▶ Column with hand-honed dovetail guide
- ▶ Height-adjustable, large protective screen with micro switch
- ▶ Wide speed range from 60 - 3 000 rpm through 2 stages, electronically controlled



Arguments,...



THREAD TAPPING MODE

- › Motor is activated by moving the quill lever downwards
- › When the set depth is reached, the direction of rotation of the spindle is reversed.
- › The tap turns out of the workpiece again
- › When the spindle sleeve is completely retracted to the switching point again, the rotation of the spindle is stopped.



GEARHEAD

- › The drilling/milling head can be tilted 45° to the left and right



FEED

- › Manual spindle sleeve feed with fine feed



OPERATING AND DISPLAY ELEMENTS

- › User-friendly and clear control panel with emergency stop pushbutton

Technical specifications, accessories and dimensions

Model	MB 4
Article no.	3338451
Power	
Electrical connection	400 V / 3 Ph ~50 Hz
Motor power	1.1 / 1.5 kW
Drilling/milling power	
Drilling performance in steel (S235JR)	Ø 32 mm
Continuous drilling performance in steel (S235JR)	Ø 28 mm
Cutter head size max.	Ø 63 mm
End mill size max.	Ø 28 mm
Spindle	
Spindle sleeve stroke	120 mm
Spindle seat	MT4
Spindle sleeve diameter	75 mm
Throat	275 mm
Drawbar	M16
Drilling/milling head	
Spindle speeds	95 - 3 200 rpm
Gearbox stages	2 x 6 stages
Tilttable	± 45°
Cross table	
Cross table x width	800 x 240 mm
T-slot size / spacing / count	14 mm / 63 mm / 3
Cross table load bearing capacity	80 kg
Clearance spindle to cross table	460 mm
Traverse paths	
X axis	450 mm
Y axis	195 mm
Z axis	430 mm
Dimensions and weight	
Length x width x height	1 155 x 775 x 1 420 mm
Net weight	320 kg

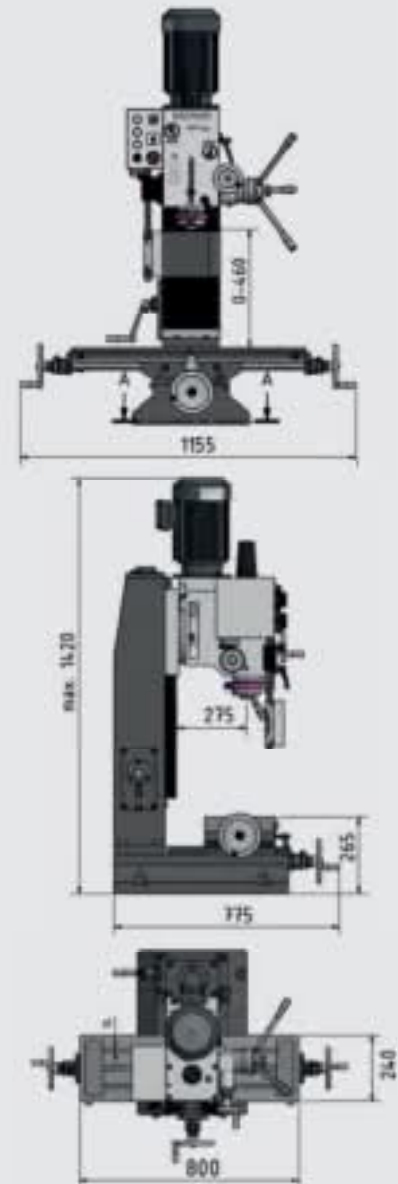
Accessories

Designation	Article no.
Collet chuck MT4/M16	3352094
HSS cutter set TiN-coated 12-part	3352250
HSS cutter set TiN-coated 20-part	3352255
Copy and face milling cutter MT4 Ø 63 mm	3350214
Boring head MT4/B16	3352125
Drill chuck arbor MT4/B16	3350304
Tapping chuck MT4/ M3 - M12	3050709
Tapping chuck MT4/ M8 - M20	3050710
Parallel shim set, 18-part	3356191
Height-adjustable tailstock RST 1	3356155
Hold-down clamp 14 mm	3352031
Assortment of clamping tools SPW 12, 58-part	3352017
Universal table feed V 99S (Info see page 103)	3352021
Assembly kit V 99S for the X axis	3352035
Universal coolant unit 230 V	3351999
Coolant mist lubricator MMC 1 with magnetic holder	3356663
Coolant hose KMS 2	3356660
Steel substructure MSM 3	3353014
Vibration damper machine foot SE 55 (4 pieces required)	3352981

More **Accessories** and **Information** on accessories from page 146

Coolant accessory see page 91

Dimensions



Scope of delivery

- › Adapter MT4/MT3
- › Tightening rod M16
- › Operating tool

Vices

Designation	Article no.
FMS 100	3354100
FMS 125	3354125
FMSN 125	3354120
VMQ 100	3354181
MV3-75	3354175
DAS 100	3355500
ZAS 50	3354170

Informations can be found from page 141