

OPTImill®* MH 35G / MH 35V

Universal precision drilling/milling machines with manual gearbox. MH 35V with electronically controlled drive. Control unit with dirt- and water-resistant membrane keyboard

Facts that impress in terms of quality, performance and price

- ▶ Control panel with user-friendly dirt and water resistant foil keyboard
- ▶ Easily readable digital display
- ▶ Easily readable spindle sleeve display in milling head
- ▶ Drilling depth stop
- ▶ Thread tapping mode
- ▶ Right-handed/left-handed rotation
- ▶ Rotary pushbutton on control panel for adjusting the drilling depth, optionally in mm or inches, with zero point
- ▶ Excellent concentricity thanks to tapered roller bearings, better than 0.015 mm measured in the spindle sleeve
- ▶ Gear head pivots through $\pm 30^\circ$
- ▶ Manual fine feed
- ▶ Adjustable cleats
- ▶ Z axis with slatted, stainless steel protective cover
- ▶ Height-adjustable protective screen with microswitch for best possible user protection against chips and parts being flung out
- ▶ Solid and generously dimensioned cross table with precision surface finish and T-slots
- ▶ Heavy, sturdy and solid columns made of premium cast material with ground and shaven dovetail guide for excellent stability and precision
- ▶ Optional, solid, heavy steel chassis ensures stability

MH 35G:

- ▶ Two-stage industrial quality electric motor

MH 35V:

- ▶ 6 speeds, electronically controlled

Energy chain



> cable guidance easy on material

Mechanical Quick change clamping system



- > The milling head is equipped with spring collet for pull stud BT30x45°
- > Easy to change by unlocking the mechanical safeguard and moving the spindle sleeve lever upward

Digitale display



- > Depth selection optionally in mm or inch and zero point freely adjustable via the display
- > Speed display (only MH 35V)

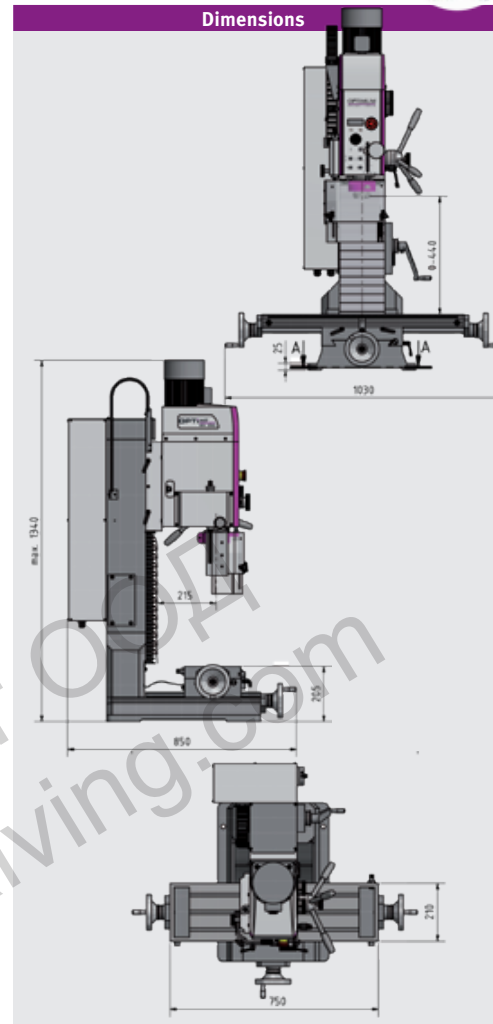


Fig.: MH 35V



Technical specifications, accessories and dimensions

Model	MH 35G	MH 35V***
Article no.	3338165	3338170
Technical data		
Electrical connection	400 V / 3 Ph ~50 Hz	
Motor output	1.1 / 1.5 kW	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 80 mm	
Max. shaft milling cutter size	Ø 28 mm	
Spindle		
Spindle sleeve stroke	90 mm	
Spindle seat	BT 30	
Spindle sleeve diameter	68 mm	
Throat	215 mm	
Drilling/milling head		
Spindle speeds	220 - 3 100 rpm	50 - 3 260 rpm
Speeds	2 x 6 speeds	6 speeds Electr. controlled
Pivot range	± 30°	
Cross table		
Length x width	750 mm / 210 mm	
T-slot size / spacing / count	12 mm / 63 mm / 3	
Load bearing capacity	max. 170 kg	
Clearance spindle to cross table max.	440 mm	
Travel		
X axis	450 mm	
Y axis	200 mm	
Z axis	460 mm	
Dimensions		
Length x width x height	850 x 1 030 x 1 340 mm	
Weight	316 kg	



Accessories	Article no.
Milling head holder Ø 22 mm	3353306
Quick clamping drill chuck 1 - 13 mm	3536303
Weldon holder Ø 6 mm	3353310
Weldon holder Ø 8 mm	3353311
Weldon holder Ø 10 mm	3353312
Weldon holder Ø 12 mm	3353313
Weldon holder Ø 16 mm	3353314
Weldon holder Ø 20 mm	3353315
Adapter BT 30 - MT 2	3353305
Spring collet holder ER 32	3353304
Spring collet holder spanner ER 32	3353307
Collet kit ER 32	3441122
Height-adjuster	3536290
Assembly and tool adjustment gauge	3536193
Taper squeegee	3353301
Pull stud 40 x 45° M12	3353302
Pull stud DIN2080 M12	3536177
Universal table feed V99	3352022
Assembly kit V99 - X axis	3352035
Assortment of clamping tools size 10, 58-parts	3352016
Steel chassis (information on page 135)	3353014
Levelling platen SE 55 (4 pcs. required)	3352981
Vibration damping machine base SE1 (4 pcs. required)	3381012
› More accessories for milling machines from page 126	

Scope of supply

› Operating tool

Machine vices	Article no.
FMS 125	3354125
VMQ 100	3354181
MV3-75	3354175
DAS 100	3355500
ZAS 50	3354170

Accessories	Article no.
Starter set BT 30	3353282
› Milling head holder Ø 22 mm	
› Quick-action drill chuck 1 - 13 mm	
› 2 pcs. Weldon Ø 6 mm and 20 mm	
› 1 pc. each Weldon Ø 8 / 10 / 12 / 16 mm	
› BT 30 - MT 2 adapter	
› 3 pcs. spring collet holder ER 32	
› Spring collet key ER 32	
› 18-part Collet kit ER 32	
› Height-adjuster	
› Assembly and tool adjustment gauge	
› 14 pcs. pull studs	
› Taper squeegee	

** Important information „Operation of machines with frequency converters“ on page 253

***The milling machine complies with the DIN EN 55011 standard: class C2.