

OPTImill[®]* MH 22V / MH 22VD

Sturdy drilling/milling machines with continuously variable electronic speed control.

MH 22VD with digital position display DRO 5

Facts that impress in terms of quality, performance and price

- ▶ Precision workmanship
- ▶ Clear-cut control panel with user friendly membrane keyboard
- ▶ Safety electrical system 24-volt version
- ▶ Easily readable digital display for speed and drilling depth
- ▶ Emergency stop button
- ▶ Motor with two-speed gear ratio for powerful transmission of motor output
- ▶ Powerful DC motor with permanent current monitoring
- ▶ Control electronics with integrated relay control
- ▶ Drilling/milling head pivots through $\pm 90^\circ$ for milling and drilling work in any angled position
- ▶ Feed spindles can be adjusted without play thanks to adjustable spindle nuts
- ▶ Right-handed/left-handed rotation
- ▶ Machine lamp
- ▶ Excellent concentricity thanks to tapered roller bearings, ≤ 0.015 mm measured in the spindle sleeve
- ▶ Sturdy dovetail guide with adjustable V-ledges
- ▶ Solid cross table with precision surface and T-slots
- ▶ Adjustable cleats
- ▶ Adjustable limit stops
- ▶ Bore for easy oiling of the trapezoidal spindle
- ▶ Two-row angular contact ball bearings in the axes, adjustable without play
- ▶ Gaiter as guide protection
- ▶ Height-adjustable protective screen with microswitch for best possible user protection against chips and parts being flung out
- ▶ Fine feed

MH 22VD

- ▶ With digital position display DRO 5

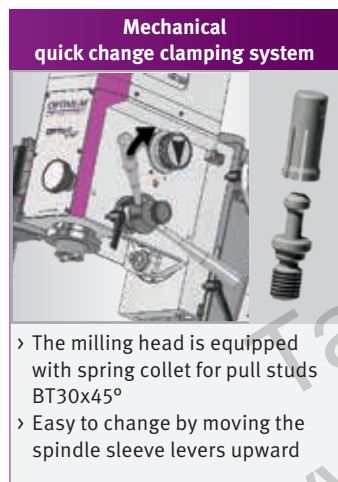


Fig.: MH 22VD with optional accessories

Technical specifications, accessories and dimensions

Model	MH 22V
Article no.	3338135
Model	MH 22VD
Article no.	3338136

Technical data	
Electrical connection	230 V / 1 Ph ~50 Hz
Motor output	950 W
Drilling/milling output	
Drilling performance in steel (S235JR)	Ø 20 mm
Cont. drilling performance steel	Ø 16 mm
Max. sensor head size	Ø 52 mm
Max. shaft milling cutter size	Ø 12 mm
Spindle	
Spindle sleeve stroke	50 mm
Spindle sleeve diameter	Ø 60 mm
Spindle seat	BT 20
Throat	170 mm
Drilling/milling head	
Spindle speeds	90 - 3 000 rpm
Speeds	2-speed, electronic speed control
Pivot range	± 90°
Cross table	
Length x width	700 x 180 mm
T-slot size / spacing / count	12 mm / 63 mm / 3
Max. load bearing capacity	50 kg
Clearance spindle to cross table	360 mm
Travel	
X axis	480 mm
Y axis	175 mm
Z axis	270 mm
Dimensions	
Length x width x height	745 x 650 x 950 mm
Overall weight	120 kg

Accessories	Article no.
Starter kit BT 20 (info on page 127)	3353281
Milling head holder Ø 16 mm BT 20	3352728
Chuck adapter BT 20 - B16	3352727
Weldon holder Ø 6 mm BT 20	3352732
Weldon holder Ø 8 mm BT 20	3352734
Weldon holder Ø 10 mm BT 20	3352736
Weldon holder Ø 12 mm BT 20	3352738
Collet chuck ER 16	3352741
Spring collet holder spanner ER 16	3352742
Collet kit ER 16, 12-part, 1 - 10 mm	3440282
Pull stud BT 20	3352726
Quick clamping drill chuck 1 - 13 mm; B16	3050623
Collet kit MT 2/ M10, direct	3351980
Collet kit ER 25, 15-part	3441109
End mill set HSS TiN-coated	3352250
Assembly kit for DRO5 on MH22V	3383990
Universal chassis (information on page 135)	3353000
Chip tray (information on page 135)	3352999
Levelling platen SE 55 (4 pcs. required)	3352981
› More accessories for milling machines from page 126	

Machine vice	Article no.
VMQ 80	3354180
› Information about vices from page 120	

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

The milling machine MH 20V complies with the DIN EN 55011 standard: class C1. The milling machines MH 22V / VD comply with standard DIN EN 55011: class C2.

