

Conventional Vertical Milling Machines

VHF 1.1

SKU : 362665

The versatile universal milling machine of the VHF series is equipped with a horizontal spindle, a swiveling vertical milling head and a large clamping table. Spindle speed and feed on the X-axis are infinitely variable. With its extensive equipment, this model is ideal for a wide range of applications in training departments, repair and model-making workshops.

- Universal cutter head with manual quill feed
- Horizontal milling spindle with its own drive
- Infinitely variable spindle speed
- Feed on X-axis
- Extensive standard equipment



TECHNICAL SPECS

WORKING AREA

Drilling capacity	25 mm
Milling diameter in steel (max.)	18 mm
Table set up area	1000 mm x 240 mm
Table load capacity (max.)	150 kg
Table angle adjustment max. (left/right)	30°/40°

TRAVELS

Travel X-axis	535 mm
Travel Y-axis	160 mm
Travel Z-axis	300 mm

VERTICAL MILLING HEAD

Spindle speed (vertical)	100 1/min - 2000 1/min
Spindle mount	SK 40 DIN 2080
Quill stroke	120 mm
Throat	200 mm - 700 mm
Spindle nose-to-table surface distance	65 mm - 385 mm

HORIZONTAL MILLING SPINDLE

Spindle speed (horizontal)	60 1/min - 1350 1/min
Horizontal spindle-to-table surface distance	0 mm - 300 mm

DRIVE CAPACITY

Motor rating horizontal spindle	2.2 kW
Motor rating vertical spindle	1.5 kW

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	1.38 m x 1.22 m x 2.15 m
Weight	1000 kg



Solid top beam with outer arbor allows rigid mounting of long milling arbors



Swiveling cutter head with sliding quill



Cutter table swivels in X axis

PRODUCT DETAILS

- Compact, easy to handle universal milling machine with rigid frame made of vibration-dampening cast iron
- Easy to shift back-gearing via 2-step gears integrated into the vertical cutter head, plus variable frequency for high torque at the main spindle
- Entire cutter head swivels $\pm 45^\circ$, quill movement via capstan handle, or quill micro-feed via hand-wheel
- Horizontal spindle features a quiet, low-maintenance v-belt drive
- Large setup table swivels horizontally
- Proven TV 1000 on X axis allows automatic advance and rapid feed of table, including infinitely variable speed and adjustable limit stops
- Coolant system and chip tray are included

STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2
 2 long cutter arbors ($\emptyset 22, \emptyset 27$ mm)
 Drill chuck 16 mm
 Reducing sleeve ISO 40 / MT3 and ISO 40 / MT2
 Coolant system
 Work lamp
 Operating tools