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

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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 ± 45°, 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 (Ø22,Ø27 mm)
Drill chuck 16 mm
Reducing sleeve ISO 40 / MT3 and ISO 40 / MT2
Coolant system
Work lamp
Operating tools

KNUTH on YouTube

Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

Are you interested in a machine for which you cannot find a current video?
Please feel free to contact us!

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