

Conventional Vertical Milling Machines

VHF 2.2



SKU : 362651

VHF series machines feature large travels, a vertical and horizontal spindle with separate drives for powerful machining. The vertical head swivels out ($\pm 45^\circ$) and the quill is movable. All models of this series are ideally suited for applications in repair shops or training shops.

- Tilting vertical milling head
- Automatic feed in X and Y axes
- Horizontal spindle with counter holder
- Extensive package of standard accessories

TECHNICAL SPECS

WORKING AREA

| | |
|-----------------------------|------------------|
| Drilling capacity in steel | 30 mm |
| Max. end mill diameter | 25 mm |
| Tapping capacity, steel | M 16 |
| Max. end face mill diameter | 100 mm |
| Table set up area | 1270 mm x 280 mm |
| Table load capacity (max.) | 150 kg |

TRAVELS

| | |
|---------------|--------|
| Travel X-axis | 700 mm |
| Travel Y-axis | 210 mm |
| Travel Z-axis | 310 mm |

VERTICAL MILLING HEAD

| | |
|--|------------------------|
| Spindle speed (vertical) | 115 1/min - 1750 1/min |
| Spindle mount | SK 40 DIN 2080 |
| Quill stroke | 120 mm |
| Throat | 200 mm - 650 mm |
| Spindle nose-to-table surface distance | 50 mm - 375 mm |
| Milling head swivel range | 45 deg |

RAPID FEED

| | |
|-------------------|------------|
| Rapid feed Z-axis | 380 mm/min |
|-------------------|------------|

HORIZONTAL MILLING SPINDLE

| | |
|--|-----------------------|
| Spindle speed (horizontal) | 40 1/min - 1300 1/min |
| Spindle mount | ISO 40 |
| Horizontal spindle-to-table surface distance | 0 mm - 310 mm |

FEED

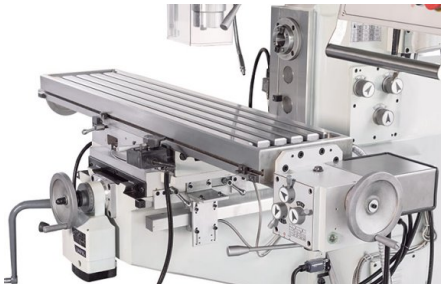
| | |
|-------------------|------------------------|
| Feed speed X-axis | 16 mm/min - 380 mm/min |
| Feed speed Y-axis | 0 mm/min - 700 mm/min |

DRIVE CAPACITY

| | |
|---------------------------------|------------------|
| Motor rating horizontal spindle | 2.2 kW |
| Motor rating vertical spindle | 0.85 kW - 1.5 kW |

MEASURES AND WEIGHTS

| | |
|--|-------------------------|
| Overall dimensions (length x width x height) | 1.7 m x 1.45 m x 2.45 m |
| Weight | 1400 kg |



PRODUCT DETAILS

- This excellent price/performance ratio is made possible by high volume production with standardized VHF assemblies
- Extremely rigid machine bed made of high-strength cast-iron with heavy ribbing
- Precision-ground guideways with hardened surfaces for long-term accuracy and wear-resistance
- The milling table features a large setup area
- Vertical and horizontal spindles each have a separate drive with gearbox for maximum machining power
- The vertical head swivels to both sides ($\pm 45^\circ$), quill feed through capstan or with fine feed hand wheel
- When working with the horizontal spindle, the complete top beam/head assembly can be rotated $\pm 180^\circ$ on the column
- Standard outer arbor support with bronze plain bearings accommodates long milling arbors in the horizontal spindle
- Feed system with manual gearbox on X-axis and infinitely variable feed unit on the Y-axis
- Height adjustment of the work table via automatic feed - precision feed via smooth hand crank
- Swiveling control panel with integrated position indicator for maximum operator comfort
- Coolant system and chip tray are included

STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2
 Coolant system
 Work lamp
 Operating tools
 Operator instructions
 M16 draw bar
 Outer arbor support for horizontal milling
 Chip tray
 Cutter arbor $\varnothing 27 \text{ mm}$



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!**