

Vertical Milling Machines (Mills)

VHF 3.2

SKU : 301411

The versatile universal milling machine complements the proven top model of the VHF series. The combination of horizontal spindle, swiveling vertical milling head and large clamping table, with an increased speed range and the infinitely variable servo feed, extend the wide range of applications of the VHF series. Together with the extensive equipment, this model is also ideally suited for milling in repair workshops as well as training and production departments.

- Swiveling cutter head with automated quill feed
- Horizontal spindle with its own drive
- Swiveling milling table
- Servo-motor for infinitely variable feed on all axes
- Extensive standard equipment



TECHNICAL SPECS

WORKING AREA

Table set up area	54 in x 13 in
Table load capacity (max.)	660 lbs
Table swivel range r/l	45 deg
Number of T-slots	3 positions
T-slot (width x spacing)	0.55 in x 3.15 in

TRAVELS

Travel X-axis	39.4 in
Travel Y-axis	14 in
Travel Z-axis	16 in

VERTICAL MILLING HEAD

Spindle mount (vertical)	SK 40 DIN 2080
Throat	7 in - 34 in
Vertical spindle-to-table surface distance	6.3 in - 22.05 in
Milling head swivel range	90 deg
Cutter head tilt angle	45 deg
Spindle speed (infinitely variable) (L)	70 rpm - 450 rpm
Spindle speed (infinitely variable) (H)	450 rpm - 3600 rpm

RAPID FEED

Rapid feed X-/ Y-axis	53 in/min
Rapid feed Z-axis	39.37 in/min

HORIZONTAL MILLING HEAD

Spindle speeds	35 rpm - 1500 rpm
Spindle mount	SK 40 DIN 2080
Horizontal spindle-to-table surface distance	3 in - 19 in

FEED

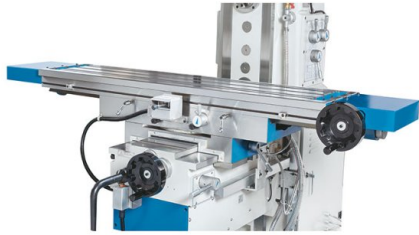
Feed speed X-axis	1.1811 in/min - 32.6771 in/min
Feed speed Y-axis	1 in/min - 33 in/min
Feed speed Z-axis	0.9055 in/min - 24.6063 in/min

DRIVE CAPACITY

Main drive motor rating (vertical)	5 Hp
Main drive motor rating (horizontal)	4 Hp

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	75 in x 69 in x 93 in
Weight	4290 lbs



Precision-ground guideways with hardened surfaces for long-term accuracy and wear-resistance



PRODUCT DETAILS

- Extremely rigid machine bed made of high-strength HT-200 cast-iron with heavy ribbing
- Quiet, precision-made headstock gears with hardened and ground gears
- The milling table features a large setup area and can be rotated in linear direction
- The cutter head quill features a 3-step automatic feed and automatic depth shut-off, but can also be moved manually
- For angular bores, the vertical cutter head swivels in two directions: $r + l \pm 90^\circ$; tilt fwd + rev $\pm 45^\circ$
- Spindle speed of vertical cutter head is infinitely variable over a wide speed range; an auxiliary gearbox ensures powerful torque
- Vertical and horizontal spindle each have their separate drive
- Standard outer arbor support with bronze plain bearings accommodates long milling arbors in the horizontal spindle
- Powerful servo-motor allows infinite variation of feeds on all 3 axes
- Minimum downtime due to rapid positioning of work table and rapid feeds in all axes
- Control panel swivels for comfortable operation
- Coolant system and chip tray are included

STANDARD EQUIPMENT

- Chip tray
- Coolant system
- Central lubrication
- 3-axis position indicator X.Pos 3.2
- Operator instructions
- M16 draw bar
- Operating tools
- Cutter arbor $\varnothing 1"$