

# Conventional Vertical Milling Machines

## MF 5 VP

### SKU : 301217

The versatile multi-purpose milling machine combines all the advantages of the world's best-selling milling machine with additional stability. The top model of the MF series has an SK 40 tool holder and a 30 percent higher unladen weight. The X and Y axis are equipped with infinitely variable feed devices. The swiveling vertical milling head offers a wide speed range for machining steel and non-ferrous metals. The equipment also includes a four-stage, automatic quill feed, pneumatic tool clamping and a large clamping table for workpieces and clamping devices.

- Swiveling cutter head with quill feed
- Pneumatic tool tightening system
- Infinitely variable spindle speed
- Feed on X-axis with rapid feed
- Heavy construction with wide guideways



## TECHNICAL SPECS

### WORKING AREA

Table set up area	1370 mm x 250 mm
Table load capacity (max.)	350 kg

### TRAVELS

Travel X-axis	800 mm
Travel Y-axis	390 mm
Travel Z-axis	380 mm

### VERTICAL MILLING HEAD

Spindle speed (vertical)	70 1/min - 3600 1/min
Spindle mount	SK 40 DIN 2080
Quill stroke	127 mm

### FEED

Quill feeds	(3) 0,04; 0,08; 0,15 mm/R
-------------	---------------------------

### DRIVE CAPACITY

Motor rating main drive	3,75 kW
-------------------------	---------

### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	2.54 m x 2.16 m x 2.24 m
Weight	1590 kg



*Variable throat widths and machining angles*



*Wide, rigid box ways on Z and Y-axes*



## PRODUCT DETAILS

- More rigid and more powerful with 3.75 kW motor
- ISO 40 spindle
- 3 automatic drill feeds
- Manual coarse feed for quill, with change-over for manual fine feed
- Quill with micrometer depth stop
- Reversing switch for forward reverse rotation
- Spindle brakes
- Infinitely variable speeds
- Head swivels  $\pm 90^\circ$  to the right and to the left
- TV 1000 table feed in X and Y, infinitely variable with rapid feed
- Coolant system
- Chip tray
- Central lubrication
- Pneumatic tool clamping

### 3-axis position indicator

- More accuracy
- Lower error rate
- Increased productivity
- Resulting in valuable time savings
- For increased productivity
- Easy to read display
- Operator-specific features
- Convenient keyboard layout
- Resolution: 0.01/ 0.005 mm
- Default coordinates
- Axis position is maintained when display is turned off
- Hole circle pattern calculation
- Calculator function
- Storage for 10 tools
- Radius / diameter toggle
- Mm/inch conversion
- Easy expansion and maintenance-free operation

## STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2  
 Table feed TV 1000 on X- and Y-axis  
 Pneumatic tool clamping  
 Chip tray  
 Coolant system  
 Central lubrication  
 Horizontal guideway cover  
 Operating tools  
 Operator manual



## 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!**