

Conventional Vertical Milling Machines

MF 1 VP



SKU : 301215

The multi-purpose milling machine series MF1 impresses with its design and is indispensable in many repair workshops as well as training and production departments. The X-axis is steplessly adjustable with a feed device and the swiveling vertical milling head with a wide steplessly adjustable speed range processes steel up to non-ferrous metals. The standard accessories include an automatic quill feed and pneumatic tool clamping as well as a mounted position indicator.

- Swiveling, tiltable cutter head with quill feed
- Pneumatic tool tightening system
- Infinitely variable spindle speed
- Feed on X-axis with rapid feed
- Extensive standard equipment

TECHNICAL SPECS

WORKING AREA

Table set up area	1245 mm x 230 mm
Number of T-slots	3 positions
T-slot (width x spacing)	16 mm x 63.5 mm

TRAVELS

Travel X-axis	760 mm
Travel Y-axis	290 mm
Travel Z-axis	370 mm

VERTICAL MILLING HEAD

Spindle speeds	60 1/min - 4200 1/min
Quill stroke	127 mm
Spindle mount	SK 30 DIN 2080
Throat	171 mm - 476 mm

FEED

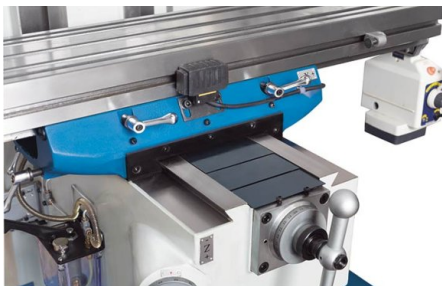
Feed speed X-axis	19 mm/min - 890 mm/min
Quill feeds	(3) 0,04;0,08;0,13 mm/R
Console travel (Z-axis)	370 mm

DRIVE CAPACITY

Motor rating main drive	2.25 kW
-------------------------	---------

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	2.05 m x 1.63 m x 2.07 m
Weight	950 kg



PRODUCT DETAILS

- The most widely used milling machine type in the world - with standard pneumatic tool clamping
- Infinitely variable spindle speed via hand wheel adjustment
- Larger table with larger travel on X
- TV 1000 automatic table advance on X-axis is included, retrofitting of Y-axis available
- Head swivels on 3 axes: swivel $r + l \pm 90^\circ$; tilt forward + reverse $\pm 45^\circ$; rotation on the column $\pm 45^\circ$
- Dovetail guides, hardened, adjustable
- 3 automatic drill feeds
- Manual coarse feed for quill, with change-over for manual fine feed
- Quill with automatic micrometer depth stop
- Reversing switch for forward reverse rotation
- Central lubrication for spindle, nut and guides
- Manual spindle brakes
- Pneumatic tool clamping
- 3-axis position indicator, coolant system, and LED work lamp (included in standard equipment)

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
 Automatic table feed in X direction (TV 1000)
 Pneumatic tool clamping
 Coolant system
 Central lubrication
 Vertical guideway cover
 LED work lamp
 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!**