

# Conventional Vertical Milling Machines

## MF 1 P



### SKU : 301219

The design of the multi-purpose milling machine series MF1 is the best-selling in the world and indispensable in many workshops. The X-axis is equipped with an infinitely variable feed and the swiveling vertical milling head with belt drive offers a wide speed range for machining steel to non-ferrous metals. The automatic quill feed and pneumatic tool clamping are also part of the standard accessories, as is the mounted position indicator. The entire series is ideal for repair workshops as well as training and production departments.

- Swiveling tiltable cutter head with quill feed
- Pneumatic tool tightening system
- Cutter head swivels in 3 axes
- Rugged 16-position belt drive for main spindle rotation

## TECHNICAL SPECS

### WORKING AREA

Table set up area	1060 mm x 230 mm
Number of T-slots	3 positions
T-slot (width x spacing)	16 mm x 63.5 mm

### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	2 m x 1.6 m x 2.09 m
Weight	1100 kg

### TRAVELS

Travel X-axis	670 mm
Travel Y-axis	290 mm
Travel Z-axis	370 mm

### VERTICAL MILLING HEAD

Spindle speeds	80 1/min - 4500 1/min
Quill stroke	127 mm
Spindle mount	SK 30 DIN 2080
Throat	171 mm - 476 mm

### FEED

Quill feeds	(3) 0,04; 0,08; 0,15 mm/R
Console travel (Z-axis)	- mm

### DRIVE CAPACITY

Motor rating main drive	2.2 kW
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## PRODUCT DETAILS

- Speed is changed by shifting the 2-step drive motor transmission, or by selecting the desired gear ratio at the drive belt (4 speeds per gear)
- Automatic table feed, type TV 1000 on X and Y, can easily be retrofitted
- 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
- Spindle mount ISO 30
- Reversing switch for forward reverse rotation
- 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  
 Pneumatic tool clamping  
 Coolant system  
 Central lubrication  
 Vertical guideway cover  
 LED work lamp  
 Operating tools  
 Operator manual