

# Conventional Vertical Milling Machines

## KB 1400

### SKU : 301320

The heavy universal bed milling machine offers wide guides and high drive power for superior cutting performance, and with its extensive equipment is ideally suited for plant and machine construction. The heavy vertical milling head can be swiveled to the right and left, the quill can be moved manually, and the spindle speed can be continuously adjusted. The feed in the Y- and X-axes can be varied using a robust gearbox. All axes have rapid traverse and the large clamping table offers plenty of space for workpieces and clamping devices.

- Large work area
- Vertical cutter head with quill stroke
- Infinitely variable feed speeds
- Extensive standard equipment



## TECHNICAL SPECS

### WORKING AREA

Spindle axis-to-table surface distance	150 mm - 650 mm
Number of T-slots	3 positions
Table set up area	1400 mm x 400 mm
T-slots, width	18 mm
T-slots, spacing	100 mm
Speed height-adjustment (max.)	1670 mm/min

### TRAVELS

Travel X-axis	950 mm
Travel Y-axis	400 mm
Travel Z-axis	500 mm

### VERTICAL MILLING HEAD

Spindle mount	SK 50 DIN 2080
Throat	510 mm
Spindle speed (vertical)	30 1/min - 1800 1/min
Quill stroke	105 mm
Head swivel range	± 30°

### RAPID FEED

Rapid feed X-axis	1670 mm/min
Rapid feed Y-axis	1670 mm/min
Rapid feed Z-axis	1670 mm/min

### FEED

Feed speed X-axis	18 mm/min - 627 mm/min
Feed speed Y-axis	18 mm/min - 627 mm/min
Feed speed Z-axis	18 mm/min - 627 mm/min

### DRIVE CAPACITY

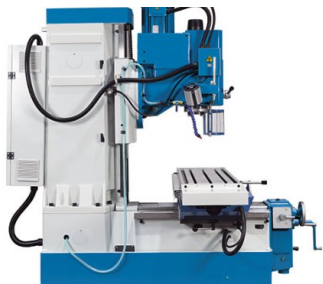
Motor rating main drive	7.5 kW
Motor rating feed	0.75 kW
Motor rating Z-axis	0.75 kW
Motor rating coolant pump	0.04 kW

### MEASURES AND WEIGHTS

Flow rate, coolant pump	12 l/min
Overall dimensions (length x width x height)	2.29 m x 1.77 m x 2.12 m
Weight	3660 kg



*The very rigid cutter head can be precisely swiveled and aligned*



*Heavy-duty design with large throat and generous work space*



*Face milling with cutter head*

## PRODUCT DETAILS

- Only the cutter head (with the part) - not the machine table - moves on the Z-axis. This results in improved stability, less vibration, and ultimately increases precision and extremely high table load capacity! This effect is emphasized even more by the large, heavy cast-iron frame (Meehanite) and extremely wide box ways.
- Infinitely variable speed adjustment provided through frequency drive
- Rigid rectangular guideways for long-lasting accuracy
- Meehanite cast-iron frame
- Cutter head swivels  $\pm 45^\circ$
- Hardened and ground guideways on all axes
- Standard 3-axis position indicator

### 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  
 Collet chuck with collets (4,5,6,8,10,12,14,16 mm diam.)  
 Reducing sleeves MT4, MT3, MT2  
 Cutter arbor  $\varnothing 40$  mm  
 Coolant system  
 Work lamp  
 Central lubrication  
 Operating tools  
 Operator instructions



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**Are you interested in a machine for which you cannot find a current video?  
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