

# Conventional Vertical Milling Machines

## KB 2100



### SKU : 301285

This heavy bed-type universal milling machine with cross table combines high unladen weight, wide guides and high drive power for superior cutting performance. The universal milling head can be swiveled on two planes and positioned at almost any spatial angle. The feed on the Y- and X-axes is infinitely variable and all axes can be traversed in rapid mode. The large clamping table offers plenty of space for workpieces and clamping devices. Together with the extensive equipment, this model is ideal for industrial and machine manufacturing.

- Large work area
- Infinitely variable feed
- Universal cutter head with 2 swivel axes
- Horizontal milling with outer arbor support
- Extensive standard equipment

## TECHNICAL SPECS

### WORKING AREA

Table set up area	2100 mm x 500 mm
Table load capacity (max.)	2000 kg
Number of T-slots	4 positions
T-slots, spacing	100 mm
T-slots, width	20 mm

### TRAVELS

Travel X-axis	1500 mm
Travel Y-axis	670 mm
Travel Z-axis	0 mm - 670 mm

### VERTICAL MILLING HEAD

Spindle speed (vertical)	35 1/min - 1345 1/min
Spindle mount	ISO 50
Throat	610 mm
Vertical spindle-to-table surface distance	0 mm - 670 mm
Milling head swivel range	360 deg

### RAPID FEED

Rapid feed X-axis	3500 mm/min
Rapid feed Y-axis	3500 mm/min
Rapid feed Z-axis	1750 mm/min

### FEED

Feed speed X-axis (infinitely variable)	20 mm/min - 1800 mm/min
Feed speed Y-axis (infinitely variable)	20 mm/min - 1800 mm/min

### DRIVE CAPACITY

Motor rating main drive	7.5 kW
Motor rating feed	2 kW
Motor rating coolant pump	0.55 kW

### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	3.3 m x 2.38 m x 2.75 m
Weight	7300 kg



*Rigid outer arbor system for long milling arbors*



*2 swivel levels allowing to set virtually any angle*

## PRODUCT DETAILS

- An extremely rigid, large-sized box-column design, made of premium cast-iron, provides a solid base for optimum work results
- Extra wide guideways ensure maximum stability and precision at high loads
- Extra long table travel distance (1500 mm) and large table set-up area (2100 x 500 mm) allow machining of large single parts or interactive machining of several parts - to give you a leading edge over your competition
- Wide spindle speed ranges from 40 to 1600 rpm
- Infinitely variable linear and cross feeds
- Control panel on a long extending arm that can be ideally positioned by the operator
- This universal cutter head features maximum rigidity and quiet operation. The angle can be set manually on an infinitely adjustable scale from 90° to 45°. This allows an exact adjustment of the headstock in user-defined spatial angles and easy movement to a horizontal position.
- The KB 2100 includes a horizontal cutter arbor holder with excellent rigidity, allowing the user to fully utilize the advantages of a bed-type milling machine design for machining with long cutter arbors.

### 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  
 Universal swivel head  
 Coolant system  
 Draw bar  
 1 set- milling chuck set ISO 50 (4, 6, 8, 12, 16, 18, 22, 26mm)  
 Cutter arbor ISO 50 Ø 40 mm  
 Horizontal arbor holder  
 Horizontal arbor Ø 32 mm  
 Work lamp  
 Operating tools  
 Foundation bolts M12 x 500 mm  
 Operator instructions

## OPTIONAL EQUIPMENT

- Universal Indexing Head 200 mm / KB 2100, SKU : 253647
- Universal indexing head 250 mm, SKU : 253648
- Spindle guard, SKU : 250892