

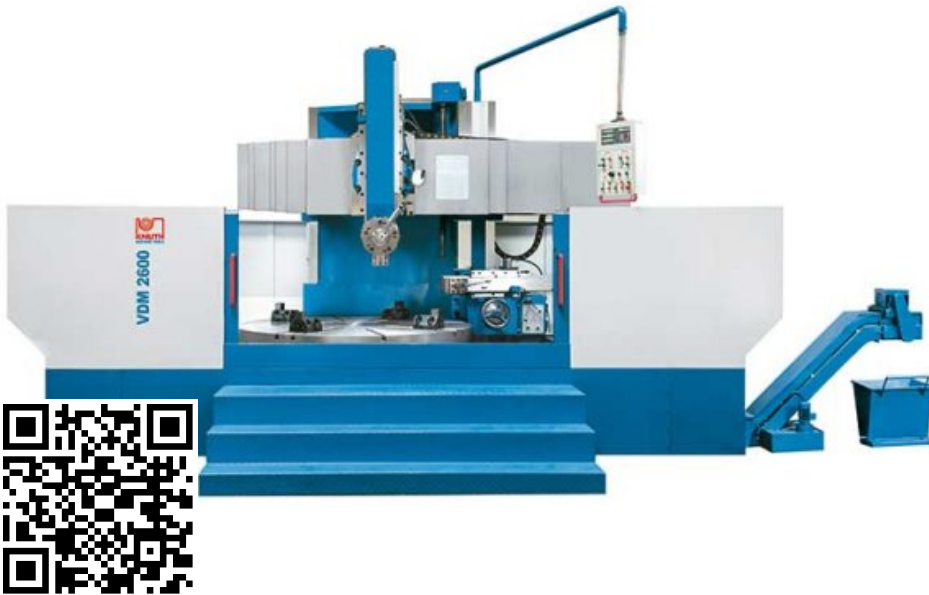
# Conventional Vertical Lathes

## VDM 1600 S

### SKU : 301393

The VDM series of vertical lathes offers modern, conventional solutions for machining large workpiece diameters and heavy workpiece weights. Their design enables particularly easy and safe loading and unloading. The feed drive is a high-torque servo motor and a powerful hydraulic system clamps the crossbeam. The main drive provides high torque for heavy machining and a side support is available for machining the outer contour. The standard mounted 3-axis position indicator ensures precision.

- Optimum assembly with crane and forklift
- Infinitely variable feed control via servo motor
- Long, sturdy vertical boom
- Side support with boom and independent feed
- Reduction gear drive for high torque



## TECHNICAL SPECS

### WORKING AREA

Rotating diameter (max.)	1600 mm
Turning diameter of upper tool holder	1600 mm
Turning diameter of side tool holder	1400 mm
Machining height (max.)	1000 mm
Swivel range of upper tool holder	± 30°
Workpiece length (max.)	1000 mm
Workpiece weight (max.)	5000 kg

### TRAVELS

Travel X1 axis, upper support	915 mm
Travel Z1 axis, upper support	800 mm
Travel W-axis, traverse	650 mm
Travel X2 axis, side support	630 mm
Travel Z2 axis, side support	900 mm

### HEADSTOCK

Speed range	5 1/min - 160 1/min
Spindle torque (max.)	25000 Nm
Rotary table diameter	1400 mm

### RAPID FEED

Rapid feed of upper support	1800 mm/min
Rapid feed of side support	1800 mm/min

### FEED

Feed speed X-axis	0.8 mm/min - 86 mm/min
Feed speed Z-axis	0.8 mm/min - 86 mm/min
Feed speed W-axis	440 mm/min

### TOOLING

Tool holder	30 mm x 40 mm
Tool weight max.	50 kg

### DRIVE CAPACITY

Motor rating main drive	30 kW
Motor rating X-axis	1.3 kW
Motor rating Z-axis	1.8 kW

### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	6.5 m x 4.2 m x 4.4 m
Weight	12500 kg



## PRODUCT DETAILS

- Infinitely variable feed control via servo-motor
- Optimum tooling and easy access for cranes and forklift trucks
- Heavy-duty column with wide, hardened guideways
- Hydraulic clamping of cross traverse
- Rigid guide construction ensures maximum rigidity and accuracy of the vertical boom
- Spindle runs in a high-precision two-row roller bearing and is adjustable
- Reduction gear drive ensures high torque and a speed range of 10 - 315 rpm
- Servo motor technology ensures powerful, infinitely variable feed of the vertical boom



*Vertical support includes a 5-station tool holder, side support with independent feed for inside and outside turning*

## STANDARD EQUIPMENT

- 3-axis position indicator X.Pos 3.2
- Totally enclosed work space
- Chip conveyor
- Tool holder vertical
- Tool holder horizontal
- Automatic central lubrication
- Work lamp
- Anchor bolts
- Operating tools
- Operator manual