

# 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.)	63 in
Turning diameter of upper tool holder	63 in
Turning diameter of side tool holder	55 in
Machining height (max.)	39 in
Swivel range of upper tool holder	± 30°
Workpiece length (max.)	39 in
Workpiece weight (max.)	11000 lbs

#### TRAVELS

Travel X1 axis, upper support	36 in
Travel Z1 axis, upper support	31 in
Travel W-axis, traverse	26 in
Travel X2 axis, side support	25 in
Travel Z2 axis, side support	35 in

#### HEADSTOCK

Speed range	5 rpm - 160 rpm
Spindle torque (max.)	18439 ft.lb.
Rotary table diameter	55 in

#### RAPID FEED

Rapid feed of upper support	71 in/min
Rapid feed of side support	71 in/min

#### FEED

Feed speed X-axis	0.0315 in/min - 3.3858 in/min
Feed speed Z-axis	0.0315 in/min - 3.3858 in/min
Feed speed W-axis	17 in/min

#### TOOL HEAD

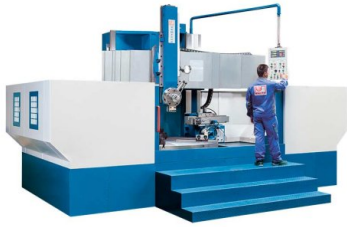
Tool holder	1.2 in x 1.6 in
Tool weight max.	110 lbs

#### DRIVE CAPACITY

Motor rating main drive	40.2 Hp
Motor rating X-axis	1.7 Hp
Motor rating Z-axis	2.41 Hp

#### MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	256 in x 166 in x 174 in
Weight	27500 lbs



## 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  
 Fully enclosed housing  
 Chip conveyor  
 Tool holder vertical  
 Tool holder horizontal  
 Automatic central lubrication  
 Work lamp  
 Anchor bolts  
 Operating tools  
 Operator manual