



1



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## High Value . High Precision High Reliability Products

1. **DV series** X:900mm-1,400mm  
Y:610mm / 720mm  
Z:610mm
2. **VB series** X:1.5m-4.0m  
Y:1.6m / 2.0m  
Z:800mm
3. **VF series** X:2.0m-5.0m  
Y:2.3m / 2.6m  
Z:920mm / 1,020mm
4. **NF series** X:2.2m-8.2m  
Y:2.3m / 2.6m  
Z:920mm / 1,020mm (Box way)  
Z:1,000mm / 1,200mm (Linear way)
5. **VH series** X:4.2m-10.2m  
Y:3.0m / 3.5m  
Z:1,000mm
6. **BM series** X:4.2m-10.2m  
Y:3.0m / 3.5m  
Z:1,000mm  
W:1,000mm / 1,200mm
7. **Diversified Heads** Manual clamping heads  
Automatic hydraulic clamping heads  
Automatic 5-side head



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### Manual clamping heads



90° degree



Universal head



Extended head

7

### Automatic hydraulic clamping heads



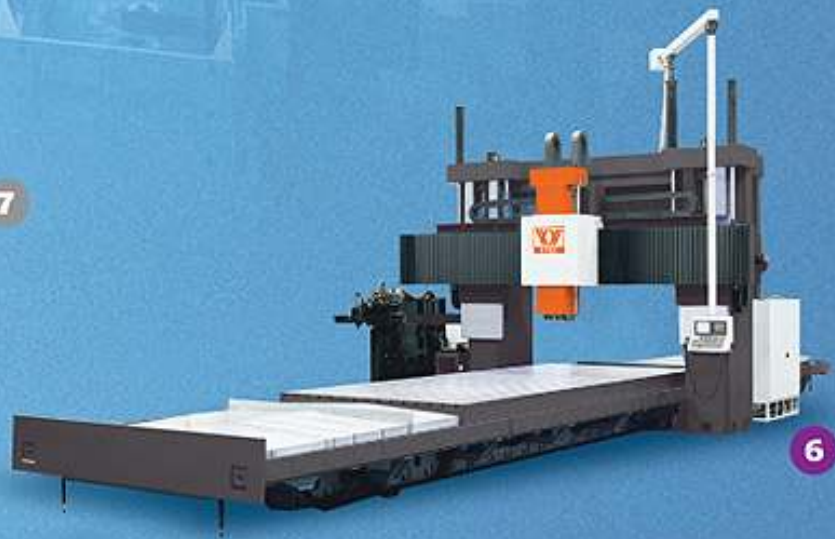
90° degree



2-Axis head



Extended head



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## VF series

### Casting Structure, 3 Axis Box Way with Unique Features. High Rigidity, High Precision, High Performance !

Casting structure: Bed, Table, Column, Beam, Saddle, Headstock.

X, Y, Z Hardened box way with low friction Turcite material.

Width between Columns: 2.4m/2.7m,

Cutting length:2.0m-6.0m

Z Stroke: 920 mm, 1020mm (Opt.)

Face milling capability (Mild steel) : 45 CC/kW-minute

Extra wide front door opening

Metal cover for Y axis

Fast cam-type ATC (3 second tool-to-tool)

Large ATC capacity: Ø215mm x 450mm L

Hanged and swivel able operation panel

Diversified heads: 90 degree / extended / universal

Visionwide FX series operation interface

Visionwide FTP server software



High splash guard for CTS(Opt.)



- **Best center-line layout of the spindle system**
- **Larger size columns and beam**
- **Slant beam with 3 guide way for Y axis**
- **Ground table as datum of machine accuracy**
- **Self-alignment twin hydraulic cylinders with pressured nitrogen accumulator headstock balancing design**
- **High accuracy and High stability feeding design:**

- Pre-tensioned C3 grade ball screws with temperature controlled design
- Gear reducer for X-axis provides better feeding rigidity
- Special design ball screws supporter and vibration damper (4 m above)



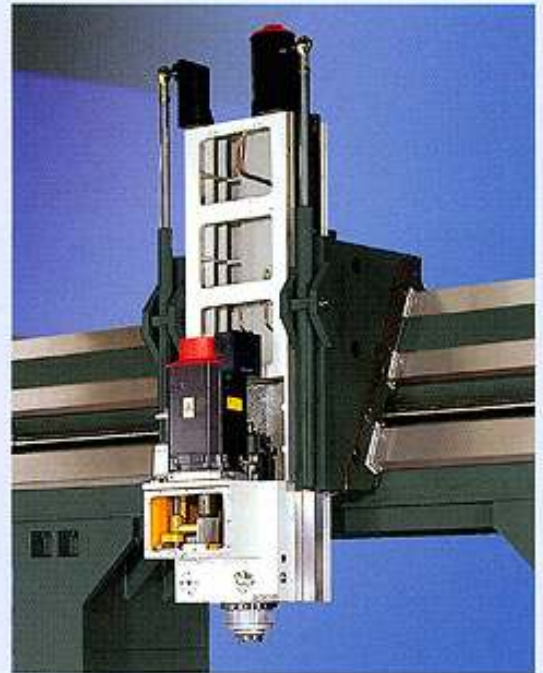
## Best center-line layout of spindle system provides powerful, reliable performance !

### Design feature of spindle system

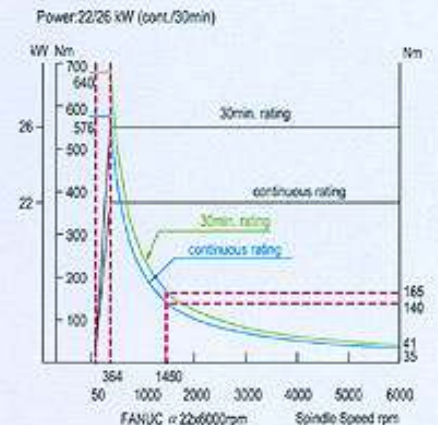
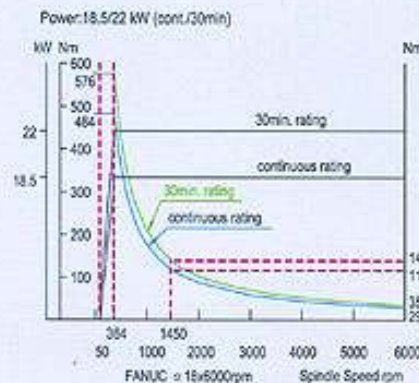
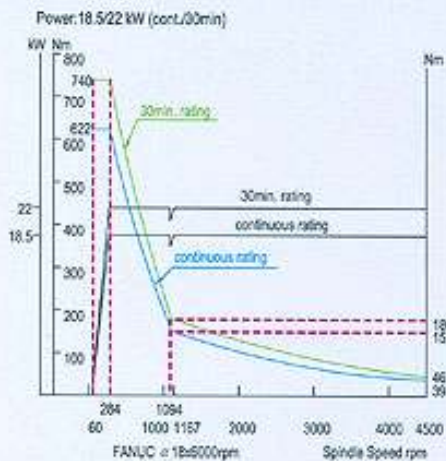
- One piece casting with square shape headstock.
- Spindle at the center of the motor, Z ball screw and twin cylinders, reduces the thermal offset of the spindle to minimum.
- Short transmission shaft, Japan made JIS 0 grade gears ensures smooth, efficient running.
- Spindle made by first class supplier, equipped with floating tool release mechanism.
- Temperature cooling system for gears, bearings and spindle.

### Spindle available

- 4500 rpm (Two-step gear)
- 6000 rpm (Two-step gear)
- 8000 rpm (Belt Drive)
- 10000 rpm (Belt Drive)



### Spindle Power and torque chart



### Diversified head attachments (Opt.) provides wider applications



90 degree angular head



Universal head



Extended head



# ISO 9001:2000

"Needs-Oriented" is the motive behind our product development and improvement. From the minute improvement to future new product design, we have the technology to contribute to the industry and society.

## 100% ISO 9001:2000 Quality management

### 1 R & D



CNC software development

### 2 Production control



Machine assemble



ATC assemble

### 3 Quality Check



Autocollimator



Laser Check



Ball Bar tuning

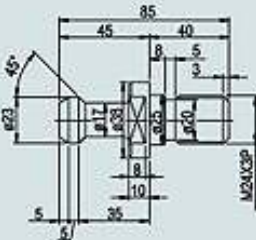
### 4 Customer database & record



### 5 Customer technical support

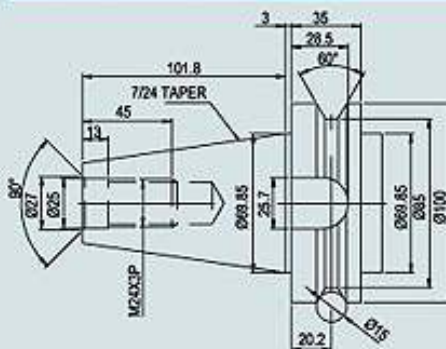


## Pull stud dimension:

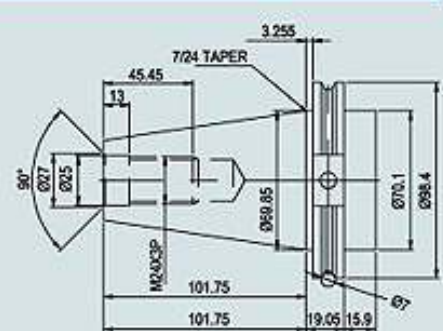


Pull stud Bolt (P50t-1) for both BT-50 and CAT-50

## Tool shank dimension:



Tool shank (BT-50)



Tool shank (CAT-50)