

**Heavy Duty CNC Vertical Machining Center with Advanced Roller Guides and FANUC Control System for Large Work-pieces**



This kind of MM-VECTOR 1300 is the Heavy Duty Versatile CNC Vertical Machining Center with Advanced Roller Guide-ways and FANUC Oi-MF Plus Control System for Powerful Machining which is been made in ISO9001 factory with CE Safety Certification. Such high quality CNC Machining Center is the Perfect Solution for Machining very Large and Heavy work-pieces.

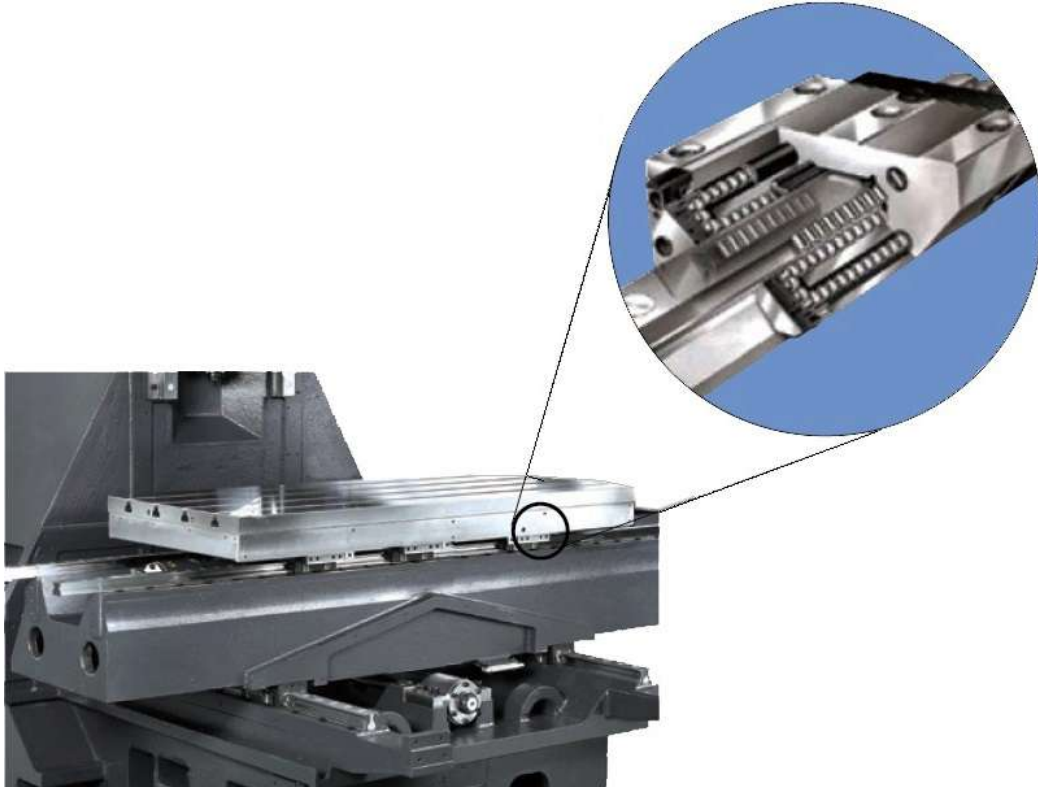
## Main Feature :

### Excellent Precision, Solid Design, Efficiency and Effectiveness

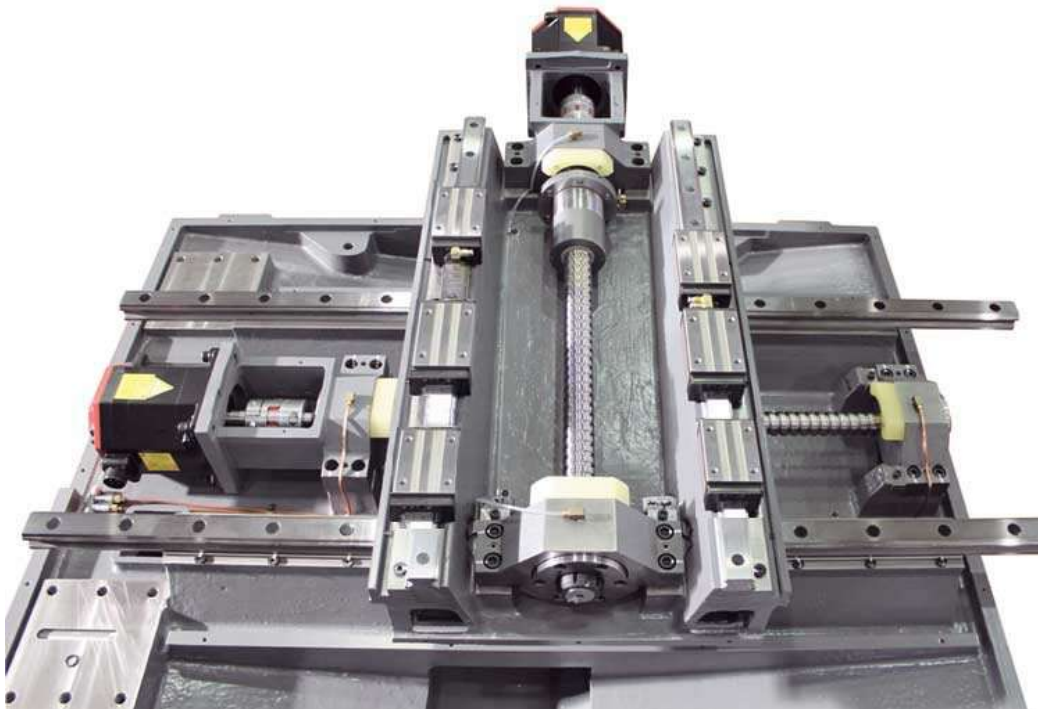
- Rigid Working Table 1400 X 700 mm with Maximum Load Capacity 1000 KS
- **Roller Type Linear Guides on all 3 axis (X/Y/Z-axes) to ensure High Accuracy**
- Disc Type Automatic Tool Changer with Double-Arm and 24 Tool Stations
- High-torque Servo-Drives mounted directly on all Ball Screws on Three Axes for dynamics feed
- Optimized Machine Frame Design using FEM Analysis
- Wide Opening Front Doors for Easy Access
- Heavy Duty Version
- High Productivity
- High Reliability
- Precision-ground, Preloaded High-Performance Big Pitch C3 Ball Screws on all Three Axes
- Robust Machine Structure with Extra Deep Center of Gravity and Small Footprint
- Powerful Spindle with Continuous Speeds up to 8000 RPM
- Torsion Free Machine Base Thanks to Strong Ribbing
- High Customization and Automation Possibilities
- All-in-One CNC Vertical Machining Center for Powerful Machining
- Automatic Central Lubrication System
- High Precision Original NSK Bearings ensures Longer Working Life
- Spindle Speed 12000 RPM is Optional
- Siemens SINUMERIK CNC Control System is Optional
- High Precision 4<sup>th</sup>-Axis Rotary Table is Optional
- Chain Type Chip Conveyor is Optional
- Industrial Robot Automation is Optional
- Certificate of Original (CO, FORM A, FORM E, FORM F)



## Roller Type Linear Motion Guides for Super High Precision



## Larger 6 units of Slide Blocks to Ensure Heavy Load Capacity



## Technical Data :

Product Name :	Heavy Duty CNC Vertical Machining Center
Product Item :	MM-VECTOR 1300
Guide-way Type :	<b>Roller Type Linear Guides for all 3 axes</b>
Control System :	FANUC Oi-MF Plus 5
<b>Machine Data</b>	
Table Size :	1400 X 700 mm
Table Load Capacity :	1000 KGS
Spindle Speed :	8000 RPM
Spindle Drive Method :	Belt Drive
Distance from Spindle nose-to-table surface :	120 — 820 mm
Distance from Spindle center to column surface :	770 mm
Spindle Taper :	BT40 (optional is BT50)
T-slots (number /width /distance) :	5 piece X 18 mm X 125 mm
<b>Travels</b>	
X-axis Travel :	1300 mm
Y-axis Travel :	700 mm
Z-axis Travel :	700 mm
<b>Feed</b>	
Rapid Feed (X-/Y-/Z-axis) :	36000 /36000 /24000 mm /min
Cutting Feed (X-/Y-/Z-axis) :	10000 /10000 /10000 mm /min
<b>Tool Changer</b>	
Tool Changer Type :	<b>Disc Type ATC (double arm grab)</b>
Number of Tool Stations :	24 Tools
Max. Tool Diameter X Tool Length (Max.) :	Ø 80 mm X 300 mm
Max. Tool Weight :	8 KGS
Tool Change Time (tool-to-tool) :	1.8 seconds
<b>Precision</b>	
Positioning Accuracy :	± 0.005 mm
Repeat Accuracy :	± 0.003 mm
<b>Drive Capacity</b>	
Main Motor :	11 /15 KW
Gross Weight :	8150 KGS
Packing Size :	3700 X 2250 X 2480 mm
Standard Accessory :	FANUC Oi-MF Plus (5) CNC Control System, Roller Type Linear Guides for all three axes (X/Y/Z), 24-station Automatic Tool Changer, Coolant system, Electronic Hand-wheel, Lubrication System, Machine Lamp, Tools and Tool-Box

