

**High Precision Versatile CNC Vertical Machining Center with Linear Guides and FANUC Control System for Excellent Performance**



This kind of MM-VECTOR 1100 is High Precision CNC Vertical Machining Center equipped with Preloaded Linear Guides 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 ideal for Large work-pieces Series Production.

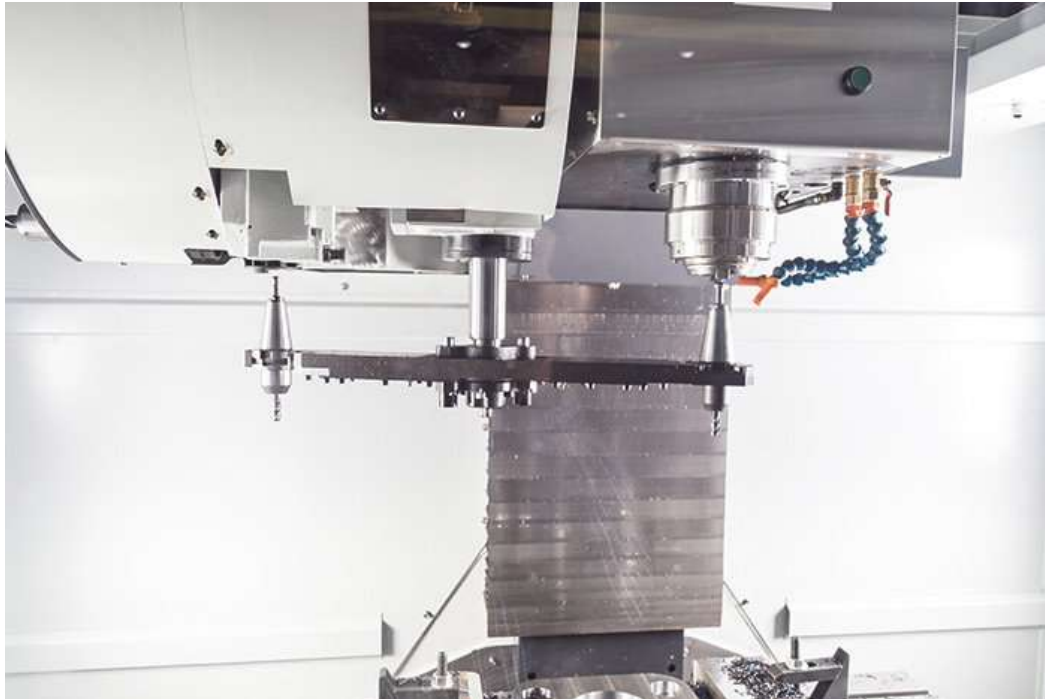
## Main Feature :

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

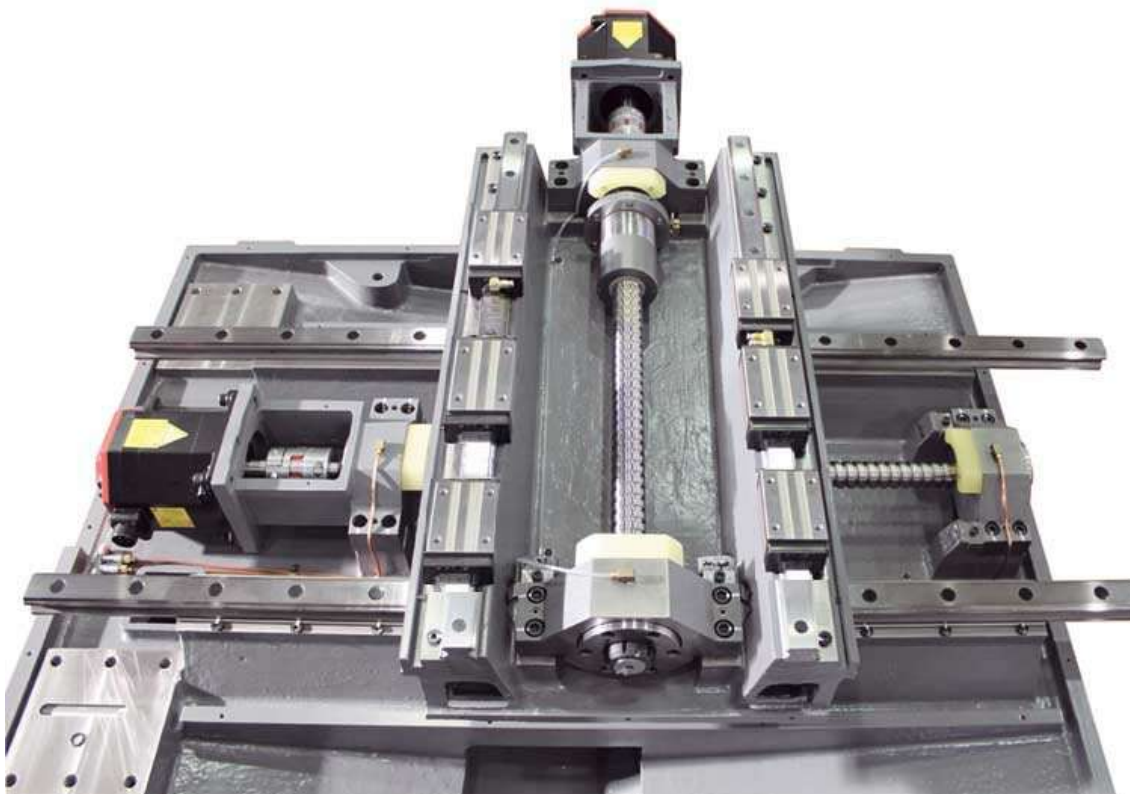
- Rigid Working Table 1200 X 600 mm with Maximum Load Capacity 800 KS
- Linear Guides on all 3 axis (X/Y/Z-axes) for Excellent Precision
- Disc Type Automatic Tool Changer with Double-Arm and 24 Tool Stations
- High-torque Servo-Drives mounted directly on all Ball Screws on Three Axes for dynamics feed
- 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
- All-in-One CNC Vertical Machining Center for Powerful Machining
- Automatic Central Lubrication System
- High Precision Original NSK Bearings ensures Longer Working Life
- Powerful Spindle with Continuous Speeds up to 8000 RPM
- Torsion Free Machine Base Thanks to Strong Ribbing
- High Customization and Automation Possibilities
- 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)



**Double Arm Grab with 24 Tool Stations — Automatic Tool Changer System**



**Larger 6 units of Slide Blocks to Ensure Higher Load Capacity**



## Technical Data :

Product Name :	Heavy Duty CNC Vertical Machining Center
Product Item :	MM-VECTOR 1100
Guide-way Type :	<b>Linear Guides for all 3 axes</b>
Control System :	FANUC Oi-MF Plus 5
<b>Machine Data</b>	
Table Size :	1200 X 600 mm
Table Load Capacity :	800 KGS
Spindle Speed :	8000 RPM
Spindle Drive Method :	Belt Drive
Distance from Spindle nose-to-table surface :	120 — 720 mm
Distance from Spindle center to column surface :	650 mm
Spindle Taper :	BT40
T-slots (number /width /distance) :	5 piece X 18 mm X 100 mm
<b>Travels</b>	
X-axis Travel :	1100 mm
Y-axis Travel :	600 mm
Z-axis Travel :	600 mm
<b>Feed</b>	
Rapid Feed (X-/Y-/Z-axis) :	36000 /36000 /36000 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 :	6680 KGS
Packing Size :	2950 X 2240 X 2460 mm
Standard Accessory :	FANUC Oi-MF Plus (5) CNC Control System, 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

