High Accuracy Compact All-in-One CNC Vertical Machining Center with Advanced Roller Guides and Rigid Design for Excellent Precision



www.maxnovocnc.com +86-514-87892928 info@maxnovocnc.com

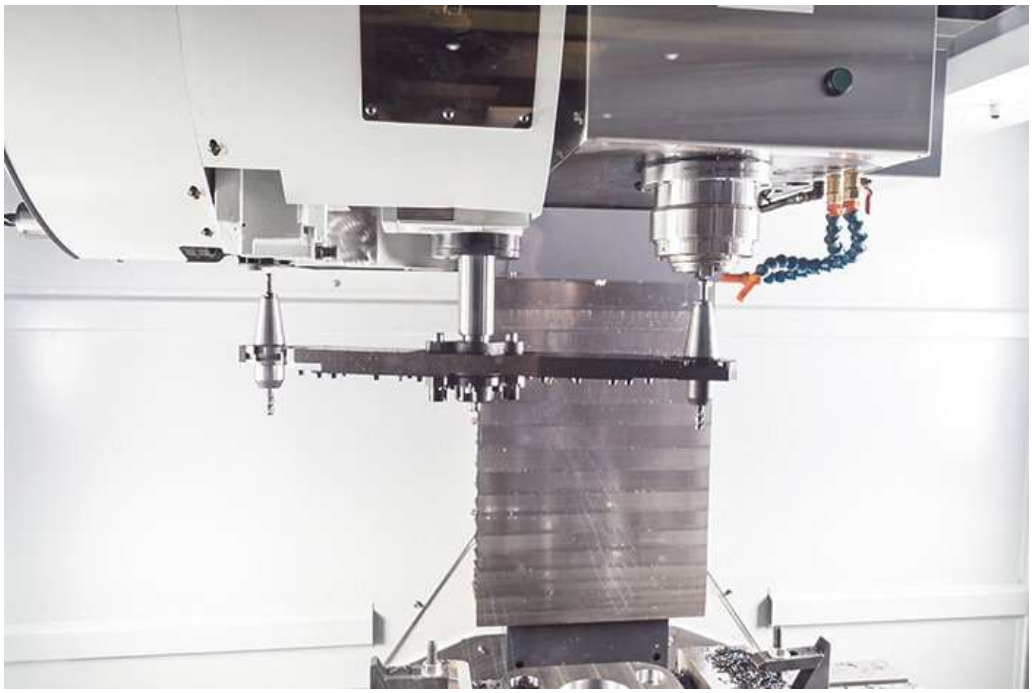
This kind of MM-VECTOR 800 is the High Accuracy Compact all-in-one CNC Vertical Machining Center with Advanced Roller Guide-ways, Spindle Speed up 1000 RPM and FANUC Oi-MF Plus Control System for Excellent Precision which is been made in ISO9001 factory with CE Safety Certification. Such Versatile CNC Machining Center is ideal for Complex Manufacturing Challenges.

Main Feature :

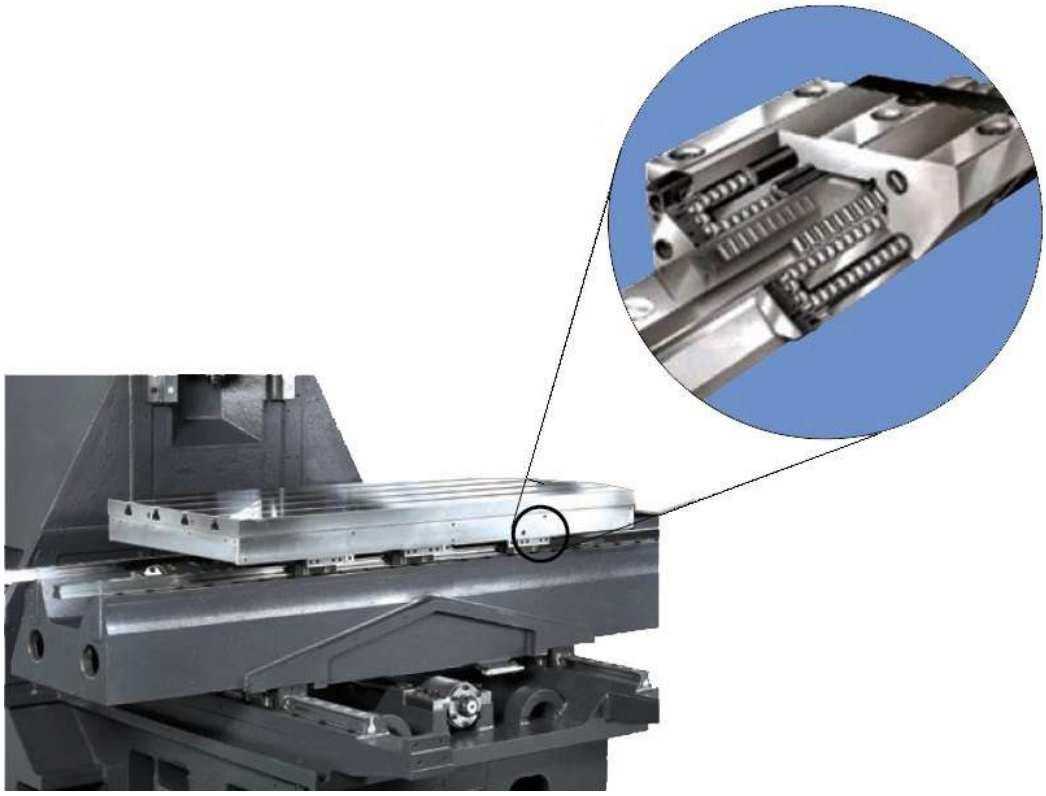
Excellent Precision, Solid Design, Effectiveness and Efficiency

- Rigid Working Table 1000 X 500 mm with Maximum Load Capacity 500 KS
- **Roller Type Linear Guides on all 3 axis (X/Y/Z-axes) to Ensure High Accuracy**
- **Spindle Speed up 10000 RPM for Excellent Powerful Machining**
- Disc Type Automatic Tool Changer with Double-Arm and 24 Tool Stations
- Optimized Machine Frame Design using FEM Analysis
- One development goal is to achieve Space-saving and Compact Design
- Heavy Duty Version
- High Productivity
- High Reliability
- Robust Machine Structure with Extra Deep Center of Gravity and Small Footprint
- High-torque Servo-Drives mounted directly on all Ball Screws on Three Axes for dynamics feed
- Precision-ground, Preloaded High-Performance Big Pitch C3 Ball Screws on all Three Axes
- 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 4th-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



Roller Type Linear Motion Guides for Super High Precision



Technical Data :

Product Name :	High Precision CNC Vertical Machining Center
Product Item :	MM-VECTOR 800
Guide-way Type :	**Roller Type Linear Guides for all 3 axes**
Control System :	FANUC Oi-MF Plus 5
Machine Data	
Table Size :	1000 X 500 mm
Table Load Capacity :	500 KGS
Spindle Speed :	**10000 RPM**
Spindle Drive Method :	Belt Drive
Distance from Spindle nose-to-table surface :	150 — 650 mm
Distance from Spindle center to column surface :	550 mm
Spindle Taper :	BT40
T-slots (number /width /distance) :	5 piece X 18 mm X 90 mm
Travels	
X-axis Travel :	800 mm
Y-axis Travel :	500 mm
Z-axis Travel :	500 mm
Feed	
Rapid Feed (X-/Y-/Z-axis) :	42000 /42000 /42000 mm /min
Cutting Feed (X-/Y-/Z-axis) :	10000 /10000 /10000 mm /min
Tool Changer	
Tool Changer Type :	**Disc Type ATC (double arm grab)**
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
Precision	
Positioning Accuracy :	± 0.005 mm
Repeat Accuracy :	± 0.003 mm
Drive Capacity	
Main Motor :	7.5 /11 KW
Gross Weight :	5180 KGS
Packing Size :	2590 X 2210 X 2420 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