

High Accuracy And Performance VMC850 Vertical Machining Center Bt40 3/4/5 Axis

Our Product Introduction

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Basic Information

- Place of Origin: CHINA
- Brand Name: luyoung
- Certification: CE
- Model Number: vmc850
- Minimum Order Quantity: 1
- Price: \$22500/set
- Packaging Details: Fumigation-free packaging
- Delivery Time: 30days
- Payment Terms: T/T, D/P, D/A, Western Union, MoneyGram, L/C
- Supply Ability: 10/set



Product Specification

- Controller: FANUC-Siemens/GSK CNC Controller
- Spindle Speed: 10000mm/min
- Year: 2024
- X Travel: 800mm
- Keyword: Cnc Milling Machine
- Application: Metal Processing
- Machining Capacity: Light Duty
- Table Size: 1000*500mm
- Spindle Speed Range: 10,000 Rpm
- Number Of Axes: 3/4/5
- Processing: Maching Center
- After Warranty Service: Online Support



More Images



Product Description

Specification

Item	VMC850
Size of worktable(length×width)mm	1000×500
T slot (mm)	5-18×100
Max loading weight on worktable	600kg
X-Axis travel(mm)	800
Y-Axis travel(mm)	550
Z-Axis travel(mm)	500
Distance between spindle nose and table	105-605mm
Distance between spindle center and column(mm)	550
Spindle taper	BT40
Max. spindle speed(rpm)	8000/10000/12000
Spindle motor power(Kw)	7.5/11kw
Rapid feeding speed: X,Y,Z axis m/min	24/24/24 liner guideway
Fast cutting speed m /min	10m/min
Positional accuracy	±0.005 mm
Repeat positional accuracy	±0.003 mm
Auto Tool changer type	24 arm type auto tool changer
Max. tool length	300mm
Max. Tool diameter	Φ80(adjacent tool)/φ150(not adjacent tool)
Max.tool weight	8kg
2.5Tool changing time(tool-to-tool)	2.5sec
Air pressure	0.6 Mpa
Machine weight	5500KG
Overall size(mm)	2600*2300*2300
Standard configuration:	
High strength resin sand casting	Imported bearings for lead -screw; HIWIN/NSK
X, Y, Z rails adopt stainless steel telescopic cover	Eelectric cabinet cold heat exchanger
Standard with belt driven Taiwan spindle---8000RPM	Full enclosed cover
GSK25I controller system	Manual pulse generator (MPG)
16 tools type Taiwan ATC	Toolbox
Centralized automatic feed lubrication system	3 Axis lubrication oil collection
Air clean gun	Color display
Chip storage tank	Foundation pad iron and adjusting bolt
Three color warning lamp	USB and Internet interface
Cooling system	Leveling blocks & bolts;
Work lamp	Rigid tapping
Spindle center air blast	
Optional configuration:	
Taiwan ATC, disc type ---24	4th /5th axis
Siemens or Fanuc controller system	Chip conveyor outside machine
3 axis Hiwin linear guide way	Tool measure system
Workpiece measure system	
Main purchase parts brand	
Name	Brand

Spindle Unit	Taiwan
Servo Motor	SIEMENS/GSK/FANUC
pressure cylinder	Taiwan SUNRISE
Screw bearing	FAG
Coupling	(R+W)
CNC Controller	SIEMENS/GSK/FANUC

1. Automatic Tool Changing Function

Machining centers are equipped with an Automatic Tool Changer (ATC), which allows the computer-controlled automatic replacement of tools from the tool magazine. This eliminates the need for manual tool changes, enabling unmanned and labor-saving production, significantly reducing labor costs and improving production efficiency.

2. Multi-Axis Machining Capability

Machining centers typically feature multi-axis capabilities, commonly 3-axis, 4-axis, or even 5-axis machining centers. Multi-axis linkage allows the completion of complex parts' multi-surface and multi-angle machining in one setup, enhancing machining precision and efficiency.

3. High Precision and High Efficiency

By adopting CNC systems and high-precision sensors, machining centers achieve high-precision machining, reducing errors caused by multiple setups and ensuring the accuracy of part dimensions and shapes. High-speed cutting and rapid positioning further improve machining efficiency.

4. Integrated Multi-Functionality

Machining centers can perform not only milling but also drilling, boring, tapping, reaming, and other machining operations. Some even integrate turning and grinding functions, meeting diverse machining requirements.

5. Diverse Structures

According to the spindle installation, machining centers are mainly divided into vertical, horizontal, and gantry types. Vertical spindles are installed vertically, suitable for small parts machining and occupy less floor space; horizontal spindles are installed horizontally, suitable for multi-face machining with better chip removal; gantry types are suitable for machining large workpieces.

6. High Automation and Safety

Machining centers have a high degree of automation, equipped with automatic tool changing, automatic loading and unloading systems, enabling continuous machining with minimal operator intervention, reducing operational risks and ensuring safety.

7. Strong Flexibility and Programmability

Through CNC programming, machining centers can quickly adjust machining programs based on CAD models, flexibly adapting to different machining tasks and supporting complex shape machining.

8. Good Production Continuity

Machining centers can realize process integration and continuous machining. Some models are equipped with automatic pallet changers, allowing one pallet to be machined while another is being loaded, greatly reducing auxiliary time and improving production efficiency.



LUYOUNG shandong lu young machinery co.,ltd

☎ 86 18660852746

✉ sales@luyoungmachinery.com

🌐 luyoungcncmachines.com

Room 1061, Building A, Guoshan Center, Taiqian Street, Taishan District, Taian City, Shandong Province