5 Axis Cnc Vertical Machining Center VMC 650 High Speed BT40 8000rpm

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Luyoung
- Certification: CE
- Model Number: VMC650
- Minimum Order Quantity: 1
- Price: USD31500-USD45800
- Packaging Details: Fumigation-free plywood
- Delivery Time: 45 working days
- Payment Terms: L/C, T/T
- Supply Ability: 100sets

Product Specification

- Precision: High Precision
- Processing: Metal Cutting
- Machinery: Mill Drill
- Advantage: Low Noise
- Ram Travel: 315mm
- Processing Types: Gear Hobbing Metal
- Workbench Working Speed: 300 600mm Adjustable
- Machine Name: CNC Milling Machine
- Table Area: 900x400mm
- Object: Tool
- After Warranty Service: Online Support
- Spindle Speed: 8000
- Spindle Taper: BT40
- ATC: 16
- Tool Change: 7.5S

Our Product Introduction

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Product Description

VMC650 5 axis BT40 8000rpm spindle speed vertical machining center metal parts

Specifications:

650	unit	parameter
Work counter (long * wide)	mm	900*400
Table load	Kg	450
X/ Y / Z	mm	700*450*500
Main shaft end to work table	mm	120--670
specification	mm	3*18
Center distance	mm	125
taper		BT40
Distance between spindle center and vertical column guide rail	mm	496
Spindle speed	rpm	100--8000
Rated power	Kw	5.5/7.5
Drive system		Belt drive
Positioning accuracy	mm	0.01
Repeat positioning accuracy	mm	0.005
Rated power	Nm	2010/10/10
X/Y/Z is the maximum moving speed	m/min	24/24/24
X/Y/Z maximum cutting speed	m/min	16
capacity	put	16
Machine weight	kg	4500
External dimensio	mm	2550*2160*2300

The power requirements	KVA	380V 15KVA

Functions:

Five-axis machining centers have the following distinctive features:

1. Single Setup Machining of Multiple Surfaces

A five-axis machining center can machine five sides of a workpiece in a single setup, a capability known as "angle head avoidance." This makes five-axis machining highly efficient, allowing complex tasks to be completed while reducing the number of setups.

2. High Flexibility and Complex Shape Processing

Five-axis machining centers are equipped with two additional rotary axes (A-axis and C-axis), enabling them to handle more complex geometries. These rotary axes allow the tool to approach the workpiece from different angles, enabling seamless machining of arcs and angles, which often requires multiple fixtures in traditional three-axis machining.

3. Improved Machining Accuracy and Repeatability

The design of five-axis machining centers reduces the number of times the workpiece needs to be repositioned during the machining process, thereby enhancing accuracy and consistency. By minimizing the use of setups and fixtures, five-axis machining can effectively reduce the possibility of errors, ensuring higher machining quality.

4. Simplified Process Flow

Five-axis machining technology allows multiple processes to be completed within a single setup, streamlining the machining process. This not only improves production efficiency but also reduces the dependence on complex fixtures, decreasing production time and costs.

5. Wide Range of Applications

Five-axis machining centers are widely used in industries such as aerospace, automotive manufacturing, and medical equipment, particularly suitable for machining complex surfaces and structural components. These machines play a crucial role in the manufacture of high-precision and highly complex parts.In summary, five-axis machining centers, with their efficiency, flexibility, and precision, have become indispensable equipment in modern manufacturing.

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