

# Grinding CNC Vertical Lathe Machine Automatic Multi Purpose Metal Cutting Processing

# **Basic Information**

• Place of Origin: Henan, China

Brand Name: BAISHUN MACHINERY

Certification: CE ISO
Model Number: CK5112
Minimum Order Quantity: 1 Set
Price: Negotiable

Packaging Details: Export standard wooden case package or

Negotiation with customers

• Delivery Time: 30-35 work days

Payment Terms: L/C, T/T, Western UnionSupply Ability: 20 Set/Sets per Month



# **Product Specification**

 Max. Length Of Workpiece 1200 (mm):

Max. Spindle Speed (r.p.m):180 R.p.mMachining Capacity: Medium Duty

Spindle Bore(mm): 105
Width Of Bed (mm): 250 Mm
Spindle Motor Power(kW): 15
No. Of Spindles: Single
CNC Control System: GSK
Tool Post Stations: 4
Weight (KG): 7000

• Highlight: cnc vertical grinding machine,

CNC Vertical Lathe Machine Automatic, grinding CNC Vertical Lathe Machine



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# **Product Description**

### **Product Overview:**

The CK5112 machine is primarily used for the rough and fine processing, groove cutting, and surface machining of cylindrical and conical parts, as well as flat surfaces. It is suitable for working with ferrous metals, non-ferrous metals, and some non-metallic materials, using high-speed steel and hard alloy tools.

### 1.The overall layout

Machine tools mainly by the table, table base, column, beam, vertical knife frame composition. The machine tool base are used HT250 cast iron, the use of resin sand process, cast after the stew fire, rough processing after aging treatment (artificial aging and vibration aging). Casting quality and reliable without cracks, pores, shrinkage and white mouth tissue, castings by stew fire, aging treatment with a stable organization to ensure the use of the machine during the stability of the product quality certificate to provide molten iron chemical composition analysis report, heat treatment Report and heat treatment temperature time curve.

#### 2. The main drive

Main drive main motor, through the gear box 16 gear speed for speed conversion. The gears in the box are quenched and ground to ensure transmission accuracy and efficiency and reduce noise and reduce vibration.

#### 3.Workbench

The table consists of table, table base, spindle components and transmission mechanism, table and table base for the overall casting processing. The table guide surface is inlaid with an aluminum alloy guide plate and a pressure oil is injected between the guide rails to form a dynamic pressure rail. So the table carrying capacity, high precision rotation.

#### 4.Beams

The beam moves up and down on the column. The beam consists of a knife feed drive mechanism, a beam clamping mechanism and a hydraulic device. Install a set of automatic lubricating oil pump on the beam, according to the need to lubricate the rail surface.

### 5. Vertical knife frame

Z-axis, Z-axis by the servo motor drive, through the planetary reducer to increase the torque, by the electromagnetic clutch switch control two axes and locked each other to achieve a variety of complex processing.

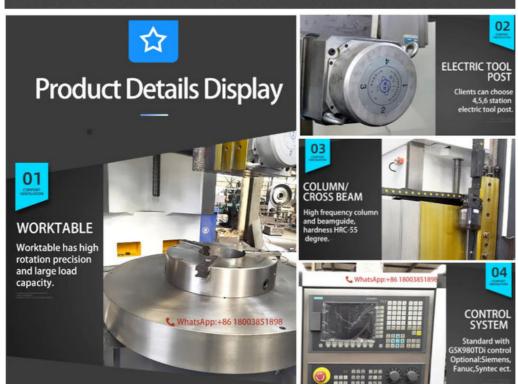
### 6. Hydraulic system

The hydraulic system includes: the table dynamic pressure system, the main drive transmission system, beam clamping and hydraulic system, vertical knife frame hydraulic balance system. Hydraulic system is essential, machine lubrication, dynamic pressure rail stability, to ensure the stability of the hydraulic system and interchangeability.

## Machine parameter

| Model  | CK518    | CK5112Q  | CK5112A  | CK5116Q  | CK5120A  | CK5126A  |
|--|----------|----------|----------|----------|----------|----------|
| Max. turning diameter of vertical tool rest (mm) | 800      | 1200     | 1200     | 1600     | 2000     | 2600     |
| Working table diameter (mm)                      | 700      | 1000     | 1000     | 1400     | 1800     | 2200     |
| Max. height of work-piece (mm)                   | 800      | 1000     | 1000     | 1200     | 1250     | 1400     |
| Max. weight of work-piece (kg)                   | 1500     | 1500     | 3200     | 3200     | 8000     | 8000     |
| Range of worktable rotation speed (rpm)          | 30-260   | 20-180   | 6.3-200  | 15-160   | 3.2-100  | 2.2-70   |
| Feeding series                                   | Stepless | Stepless | Stepless | Stepless | Stepless | Stepless |
| Range of tool rest feed (mm/min)                 | 0.25-90  | 0.25-90  | 0.8-86   | 0.25-90  | 0.8-86   | 0.8-86   |
| Cross beam travel (mm)                           | 500      | 1000     | 650      | 1200     | 890      | 1090     |
| Horizontal travel of tool rest (mm)              | 500      | 700      | 700      | 900      | 1115     | 1400     |
| Vertical travel of tool rest (mm)                | 450      | 500      | 650      | 750      | 800      | 800      |
| Size of section of cutter bar (mm)               | 30*40    | 30*40    | 30*40    | 30*40    | 30*40    | 30*40    |
| Main motor power (kw)                            | 11       | 15       | 22       | 15       | 30       | 30       |





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