



shandong lu young machinery co.,ltd

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## Heavy Duty Horizontal Lathe Large CNC Lathe CK6180 Cnc Machine

Our Product Introduction

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### Basic Information

- Place of Origin: SHANDONG
- Brand Name: cnc lathe machine
- Certification: CE
- Model Number: CK6180
- Minimum Order Quantity: 1/SET
- Price: \$15000-\$25000
- Packaging Details: non-fumigation wooden box
- Delivery Time: 45 working days
- Payment Terms: T/T, L/C
- Supply Ability: 30/SET



### Product Specification

- Distance Between Centres: 3000mm
- Spindle Speed Ranges: 100~1600r/min
- Positioning Accuracy: 0.01
- Tool Post Stations: 6, 4, 8
- Coolant System: Yes
- Spindle Head Type: A2-5
- Machine Dimension: 2/2.3\*1.5\*1.7
- Max Turning Length: Over 500mm
- Through Spindle Hole: 70mm
- Diameter Of Sleeve: 75mm
- Tool Width: 25mm
- Spindle Motor: 11kw



### More Images



## Product Description

### Specification

specification	CK6180A-1
Max. swing over bed (mm)	800
Max. swing dia. over cross slide(mm)	500
Max.processing length(mm)	1000
Form	Three gears No grade to change frequency
Number of spindle speed	No grade
Range of spindle speed(r/min)	25-850 rpm
The spindle terminal structure	C11
Diameter of spindle bore (mm)	105
The taper of spindle front-end	(Metric)120 1:20
Power of main motor (KW)	11KW
Max.travel of tool post (mm)	X:530 Z:1200
Fast moving feed speed (mm/min)	X:4000 Z:5000
Resetting accuracy(mm)	X:0.012 Z:0.016
Processing accuracy(mm)	IT6-IT7
Surface roughness	Ra1.6
Sleeve diameter of tailstock (mm)	100
Sleeve travel of tailstock (mm)	250
Cone hole taper of tailstock's sleeve	MT6
Standard configuration	Four-station vertical electrical knife rest
Alternative configuration	Horizontal Six-station electrical knife rest
Restting accuracy (mm)	0.01
Length of section of knife handle (mm)	30*30
Length*width*height	3200*1820*1780
Net weight (Kg)	4100

#### 1. High Rigidity and Durability

**Robust Structure:** Utilizes high-strength cast iron bed with hardened guideways (hardness  $\geq$ HRC50), ensuring long-term stability and resistance to deformation even under heavy-duty cutting.

**Precision Components:** Internationally certified spindle bearings (e.g., HRB Bearing) and high-grade lead screws (C3/C4 class) minimize wear and enhance lifespan.

#### 2. Superior Precision and Repeatability

**Accuracy:** Achieves IT6-IT7 tolerance levels and surface roughness up to Ra1.6μm, ideal for high-precision industries like aerospace and medical equipment.

**Consistency:** Repeat positioning accuracy of ±0.005 mm ensures reliable batch production.

### 3. Flexible Configurations

**Modular Design:** Customizable options include tool turrets (4-8 stations), spindle speeds (30-2500 r/min), and bed lengths (1000-5000 mm), adapting to diverse machining tasks.

**Multi-System Compatibility:** Supports mainstream CNC systems (e.g., Siemens, GSK) for seamless integration into existing production lines.

### 4. High Efficiency and Productivity

**Rapid Feed Rates:** X/Z-axis rapid traverse up to 7500 mm/min reduces non-cutting time.

**Powerful Cutting Capacity:** 11 kW spindle motor with 48 N·m torque enables efficient material removal for both ferrous and non-ferrous metals.

### 5. User-Friendly Operation and Maintenance

**Ergonomic Interface:** Intuitive control panel with mechatronic integration simplifies complex programming (e.g., threads, contours).

**Low Maintenance:** Centralized lubrication and premium components (e.g., Nanjing Guojing lead screws) reduce downtime and operational costs.

### 6. Wide Industry Applicability

**Versatile Applications:** Excels in automotive parts, mold cores, military components, and multi-variety small-batch production.

**Cost-Effective:** Ideal for SMEs requiring high precision without large-scale investment.

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