

High Duty Flat Bed Machine Ck6180x3000mm Cnc Lathes Torno Machine

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Luyoung
- Certification: CE
- Model Number: CK6180
- Minimum Order Quantity: 1
- Price: \$9000-\$18000
- Packaging Details: non-fumigation wooden box
- Delivery Time: 45 working days
- Payment Terms: L/C, T/T
- Supply Ability: 30/SET



Product Specification

- Max. Swing Dia. Over Bed(mm): 800mm
- Distance Between Two Centers: 3000mm
- Main Motor Power: 11KW
- Tool Holder: 4-station
- Chuck: Manual
- Tailstock: Manual
- Highlight: heavy duty flat bed CNC lathe, CK6180x3000mm CNC turning machine, flat bed torno machine with warranty



More Images



I. Core Structural Features (Foundation of Advantages)

High Load Capacity and Large Machining Range:

Large Swing Diameter: Capable of machining disc-type and cylindrical workpieces with diameters up to 800 mm, which is its most prominent feature.

Strong Weight Capacity: The robust bed and headstock structure can handle heavy workpieces weighing several tons.

High Rigidity Bed and Flat-Bed Design:

The bed is usually made of **high-quality cast iron** and undergoes stress relief annealing to minimize internal stress and ensure stability.

The **Flat-Bed Structure** (compared to a slant bed) provides stability and rigidity when bearing the weight of massive workpieces, making it particularly suitable for heavy-duty cutting.

Powerful Spindle System:

Equipped with a high-power spindle motor, providing high torque at low speeds, suitable for heavy-duty rough machining of materials like steel, cast iron, and alloys.

Large spindle through-hole diameter (common specifications include $\Phi 130\text{mm}$, $\Phi 160\text{mm}$, etc.), allowing for the processing of long bar stock or large hollow workpieces.

Stable Tool Post:

Typically equipped with a **vertical 4-station or 6-station electric tool post**. The tool post has high rigidity and can accommodate large, heavy-duty turning tools, meeting the demands of powerful cutting.

II. Performance and Capability Features

Powerful Cutting Capability:

Benefiting from high rigidity and a high-power spindle, it can perform rough machining with large depth of cut and high feed rates, resulting in high metal removal rates and outstanding efficiency.

Wide Machining Adaptability:

Capable of turning external cylinders, internal holes, end faces, and tapers, as well as performing precise machining of various arcs, curved surfaces, and threads (metric, imperial, taper threads, etc.) via the CNC system.

Good Stability and Accuracy Retention:

The sturdy bed structure and excellent manufacturing craftsmanship ensure that the machine maintains good geometric accuracy and stability even under long-term heavy-load operation.

III. CNC System and Automation

Mainstream CNC System:

Usually equipped with well-known domestic and international CNC systems such as **Guangzhou CNC (GSK), Fanuc, or Siemens**, ensuring stable operation, easy programming, and powerful functions.

Automation Compatibility:



As a versatile CNC machine tool, it can be easily fitted with accessories like **automatic tailstocks, hydraulic chucks, chip conveyors, and protective covers**, providing a foundation for integration into automated production lines.

Specification	CK6163	CK6180	CK61100	CK61125	CK61140
Max. swing dia. over bed(mm)	φ630mm	φ800mm	Φ1100mm	Φ1250mm	1400
Max. swing dia. over cross slide(mm)	φ350mm	φ500mm	Φ820mm	Φ900mm	1000
Max. processing length(mm)	1000/1500/2000/3000/4000/5000mm		1500/2000/3000/5000mm		
Spindle bore(mm)	φ105mm	φ105mm			φ130mm
Spindle speed(rpm)	Four gears No grade to change frequency	30-84/53-150/125-350/300-835rpm			
X/Z axis fast feeding speed (m/min)	(Metric)120 1:20				
X/Z axis position accuracy	±0.006	±0.006			
X/Z-axis repeatability	X:0.008 mm	X:0.008 mm			
clamping	30×30mm	40×40mm			
tool post type	4/6/8 station electrical tool holder or Hydraulic turret				
Main motor power	11KW				
Tailstock taper	MT6	MT8			
Tailstock sleeve dia.	4/5 M/MIN	4/6 M/MIN			
Tailstock sleeve travel	250mm	300mm			
Overall dimensions(L×W×H)	3200/3700/4200/5200×1820×1710mm	3300/3800/4300×1940×1800mm	2800/3700/4200/5200/6200/7200*1820*1780		
Net weight	3900/4300/4800	4100/4500	4300/4700/5500/6500		4500/5000/5500/6000/6500

