

Small and Precision CNC Lathe CK0660 CK0640 cnc lathe machine GSK control system

Our Product Introduction

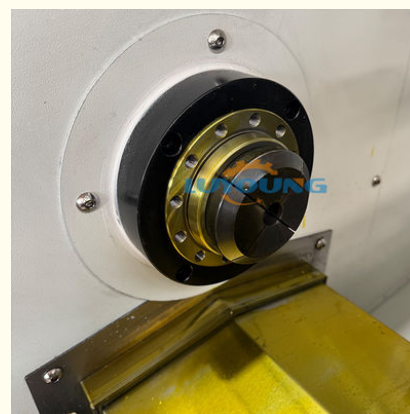
Basic Information

- Place of Origin: China
- Brand Name: Luyoung
- Certification: CE
- Model Number: CK0660
- Minimum Order Quantity: 1/SET
- Price: USD4500-USD6000
- Packaging Details: non-fumigation wooden box
- Delivery Time: 45 working days
- Payment Terms: L/C, T/T
- Supply Ability: 30/SET



Product Specification

- Control System: GSK928
- Spindle Bore: 67mm
- Bar Capacity: 60mm
- Tool Holder: Gang Type Tool Holder
- Chuck: Hydraulic Collet
- Highlight: **small precision CNC lathe machine, flat bed CNC lathe with GSK control, CK0660 CK0640 CNC lathe machine**



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Product Description

I. Core Structural and Performance Characteristics

Compact Structure and Small Machining Range

Small Footprint: The machine tool has a compact structure and occupies minimal floor space, making it ideal for laboratories, research institutions, or small parts workshops.

Small Swing Diameter: The maximum swing diameter over the bed is typically around 100mm, with a maximum machining diameter of about 60mm, designed specifically for small components.

High-Precision Spindle System

High-Speed Spindle: Often uses high-frequency motors or servo spindle motors, achieving very high rotational speeds (up to 3000 RPM or more), ensuring ideal cutting speeds for small-diameter parts.

High-Precision Spindle Bearings: Frequently employs precision angular contact ball bearings or hydrostatic bearings to ensure spindle running accuracy, resulting in superior workpiece roundness and low surface roughness.

High-Speed, High-Precision Drive System

Linear Guideways: Commonly uses high-rigidity linear guideways, which have low friction coefficients, high movement sensitivity, and provide extremely high positioning and repeatability.

High-Speed Feed: Utilizes precision ball screws and servo drives to achieve fast and smooth feed motion, suitable for precise contour machining.

Tool Post Designed for Efficiency

Powered Tool Post (Optional): Many CK06 series machines can be equipped with powered tool posts, enabling turning-milling compound machining. This allows for multiple operations (turning, milling, drilling) in a single setup, greatly improving efficiency for complex small parts.

II. Design and Application Characteristics

Excellent Machining Accuracy and Surface Finish

Due to its compact size, good rigidity, low vibration, and high-precision spindle and drive systems, this type of machine can easily achieve micron-level machining accuracy and superior surface finishes.

High Production Efficiency and Automation

Automation Integration: Can be easily integrated with **auto feeders** (e.g., bar feeders) for 24/7 unmanned automated production, making it ideal for batch production of small parts.

Fast Tool Change: The tool post (especially servo-powered turrets) has very short tool change times, further reducing non-cutting time.

Simple Operation and Low Power Consumption

Typically equipped with user-friendly CNC systems (e.g., GSK, Syntec), making them easy to operate.

The spindle motor power is relatively low (usually a few kilowatts), resulting in low energy consumption.

Main technical parameters :	
Items	CK0660
Spindle bore	67mm
Spindle through hole diameter	60mm
Max swing over carriage	Φ130mm
Max.swing over bed	φ300mm
Max length of work piece	Collet 200 Chuck 120
X-axis max motion traveling schedule	200mm
Z-axis max motion traveling schedule	240mm
X-axis fast moving speed	6000mm/min
Z-axis fast moving speed	+ 8000 mm/min
X-axis feed rates	1~2000mm/min
Z-axis feed rates	1~1800mm/min
Range of spindle speed	150~2500rpm

X/Z-axis repeatability(mm)	0.012/0.013
Stations of tool carrier	gang-type tool holder
Power of the main drive motor	3KW
Overall dimensions(L×W×H)	1960x1400x2000mm
Net weight	800 kg



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