

Small Size TCK40 Slant Bed Machine CNC Gang Type Tool Holder

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Luyoung
- Certification: CE
- Model Number: TCK40
- Minimum Order Quantity: 1
- Price: USD12000-USD25000
- Packaging Details: Fumigation-free plywood
- Delivery Time: 45 working days
- Payment Terms: L/C, T/T
- Supply Ability: 100sets



Product Specification

- Tool Post Stations: 12
- Max Processing Length: 335
- X Travel: 900mm
- Z Axis Travel: 335mm
- Spindle Form: A2-5
- Net Weight: 1600kgs
- Dimension: 2100*1450*1850mm
- Condition: New
- Positioning Accuracy: $\pm 0.01/0.015\text{mm}$
- Repeatability Accuracy: $\pm 0.005/0.006\text{mm}$
- Turret Type: Gang Type Tool Holder
- Highlight: Small Slant Bed CNC Lathe Machine,
40mm Slant Bed CNC Lathe Machine



More Images



Product Description

Specifications:

Model	TCK40
Max. swing diameter over bed(mm)	Φ450
Max. cutting diameter(mm)	Φ120
Max.cutting length(mm)	335
X axis travel(mm)	900
Z axis travel(mm)	335
X/Z axis movement speed(mm/min)	24000
Handwheel(mm)	0.001/0.01/0.1
X,Z axis feed speed(mm/min)	0~5000
X,Z axis manual feed speed(mm/min)	0~1260
X/Z axis repositioning accuracy(mm)	0.005/0.006
X/Z axis positional accuracy(mm)	0.01/0.015
Max spindle speed (rpm)	4,500
Max. spindle torque (N.m)	35
Spindle taper	A2-5(optional A2-6)
Spindle bore (mm)	Φ52
Bar through-hole(mm)	Φ40
hydraulic chuck	6" (Optional8")
Turret type	Servo turret
Number of tool holder	/
Tool change times(s)	/
Tool mounting dimension(mm)	20×20
Boring tool holder mounting diameter(mm)	Φ25
Tailstock travel (mm)	/
Center taper	/
Main motor power(kW)	5.5
Main motor torque (N.m)	35
X/Z axis feed motor Power (kw)	1.5
X/Z axis feed motor torque (N.m)	6
Coolant capacity (L)	200
Motor type (1HP) (kw)	0.125
L×W×H(mm)	2100*1450*1850
Machine weight (kg)	1600



Features:

The TCK40 slant bed lathe is a high-performance CNC lathe with the following key features:

The FCK40 series multifunctional CNC lathe is a high-speed precision CNC machining equipment produced by our company using technology imported from Japan. It primarily utilizes components from well-known domestic and international manufacturers, with key parts processed by imported precision five-sided machining centers to ensure manufacturing accuracy.

Machine Structure

Bed Design: The FCK40 series features a box-type structure, constructed from high-strength cast iron (HT-300) using integrated casting technology. It is processed in a high-precision machining center in a single clamping operation, ensuring strong overall rigidity, good machine precision retention, and high reliability.

High-Rigidity Bed: The bed adopts a 45-degree slant-back integral structure, facilitating effective chip removal. It is equipped with a separate water tank to completely eliminate leakage and is easy to maintain.

Tool Holder Options: The FCK40 series lathe can be equipped with various tool holders, including a 4-station electric tool holder, a 6-station electric turret, an 8-station electric turret, and an 8-station servo turret. The servo tool holder can interchangeably position tools at various locations, achieving fast tool change speeds (0.25 seconds for adjacent tool changes) with a repeat positioning accuracy of 0.003 mm.

Spindle Structure: The FCK40 series features a high-rigidity spindle unit structure.

Lubrication System: The spindle employs a closed oil grease lubrication system to ensure smooth and stable high-speed operation.

Motor Specifications: The spindle motor is an AC servo motor with a power of 5.5 kW, featuring stepless speed variation suitable for heavy cutting tasks.

Noise Control: The spindle box utilizes a gearless structure, significantly reducing noise and vibration.

Clamping Design: It uses a hollow hydraulic chuck and high-speed oil cylinder, equipped with a foot switch for easy and safe work piece clamping.

X and Z Axis Drive

Feed Drive System: The X and Z axis feed drives use high-precision (C3 grade) components from Taiwan with preloading applied.

Ball Rail System: It employs Taiwanese (P grade RG45) or THK ball screw linear rails with strong load-bearing capacity.

Lubrication System: A ball screw rail lubrication system provides forced lubrication throughout the process, minimizing friction while being protected by stainless steel telescopic covers.

Servo Motors: Both the X and Z axes utilize servo motors, with torque ratings of 6 N·m for both the X-axis and Z-axis motors.

The FCK40 series multifunctional CNC lathe offers users high efficiency and precision machining solutions through its superior technical specifications and design philosophy, making it an indispensable piece of equipment in modern manufacturing.



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