

CNC Lathe Machine

This CNC lathe machine is designed for high-precision metal cutting applications. It features a rigid structure for enhanced stability and accuracy during machining operations.



ADDITIONAL IMAGES



Overview

High-Precision 45° Inclined Bed CNC Lathe

The TCK50 is a high-rigidity CNC lathe featuring a 45-degree inclined bed design, engineered for exceptional bending and torsional stability during heavy cutting operations. This machine integrates advanced linear guideways and a high-precision hydraulic turret to ensure consistent accuracy and efficiency for complex part processing. Designed for versatility, it handles everything from metric and inch threading to complex arc and cone face machining, making it an ideal solution for high-volume B2B manufacturing.

Key Performance Metrics

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45°

Bed Incline

2

Controlled Axes

Technical Design

Bed Structure	Integral 45° inclined bed with secondary aging treatment for enhanced stability
Axis Control	Directly connected X and Z axis servos with semi-closed loop control
Guideway Type	High-precision linear guideways

Machining Capabilities

Processing Capabilities	Grooving, Inner/Outer Hole, Ball Type, R-Angle, Arc Surface, Cone Face, End Face, Metric Thread, Inch Thread, Multi-head Thread
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Components & Configuration

Standard Configuration

- Hydraulic hollow chuck
- High-rigidity hydraulic turret
- Hydraulic tailstock
- Automatic centralized lubrication system
- Coolant system
- Full rail protection cover
- Precision ball screws with elastic coupling

CNC System Options

GSK980 TDi • FANUC Oi TF • SIEMENS 808D

Operational Features

Design & Maintenance	Electromechanical integration with compact layout for easy maintenance
Thermal Protection	Yes
Chip Management	Separated coolant tank and chip conveyor to protect machine accuracy