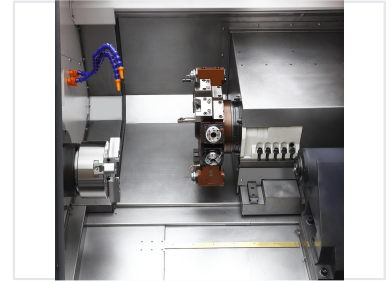


# CNC Turning Center

This CNC turning center is designed to flexibly handle various workpieces. Its power turret enables machining of workpieces from simple to complex shaped components with one setup operation.



## ADDITIONAL IMAGES



## Overview

Specifications	UNIT	TN500-650
<b>Capacity</b>		
Max. workpiece diameter	mm	650
Max. workpiece length	mm	650
<b>Spindle</b>		
Spindle speed range	rpm	100-4000
Max. spindle power	kW	15
Max. spindle torque	Nm	150
<b>Axis</b>		
Z-axis travel	mm	300
X-axis travel	mm	150
<b>Turret</b>		
Turret capacity	pcs	12
Max. tool length	mm	150
<b>Features</b>		
Direct-driven spindle	Yes	Yes
Power turret	Yes	Yes
Max. workpiece diameter	mm	650
<b>Options</b>		
Tool magazine	pcs	30
Max. tool length	mm	150

Diagram detailing the flexible workpiece handling capabilities of the TN series.

## High-Performance Turning Center

The TN Series Turning Centers are engineered for high-precision machining, offering exceptional flexibility for handling various workpieces. Featuring a direct-driven spindle and a robust 12-station power turret, these machines allow for the efficient production of both simple and complex components in a single setup. Designed for reliability and high-speed performance, this machine is suitable for everything from small-scale production to large-scale industrial manufacturing environments.

## Key Metrics

### Performance Highlights

**4000 rpm**

Max Spindle Speed

**15 kW**

Main Motor Power

**12 pcs**

Tool Stations

**650 mm**

Max Workpiece Length

## Capacity

### Workpiece Capacity

Parameter	Value
Max Swing Dia. over Bed	!500mm
Max Swing Dia. over Slide	!280mm
Max Workpiece Length	650 mm
Chuck Size	8 inch

## Technical Details

### Spindle Configuration

- Spindle Bore: !66mm
- Through-hole Diameter: !52mm
- Spindle Nose: A2-6
- Max Speed: 4000 rpm

### Axis Travel and Speed

- X Axis Travel: 265 mm
- Z Axis Travel: 650 mm
- Rapid Traverse (X/Z): 15/20 m/min
- Max Feed Speed: 8 m/min

## Tooling

### Turret Specifications

- Station count: 12
- Tool shank size: VDI30
- Driving tool max speed: 5000-6000 rpm
- Adjacent tool change time: 0.45 s
- Opposite tool change time: 2.3 s

## Physical Properties

### Machine Dimensions

- Overall Dimensions: 3050 x 1720 x 1890 mm
- Total Weight: 4400 kg

## Options

### Tailstock Configuration

Hydraulic, Optional LM, MT4 Quill Taper