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DTL-50F/CNC Vertical Turning Lathe 5000 mm





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Main image of the DTL-50F/CNC model
CNC Vertical Turning Lathe

DTL-50F/CNC Vertical Turning Lathe

Double-column CNC vertical turning lathe with a fixed crossbeam for machining workpieces up to 5000 mm

DTL-50F/CNC is a **double-column CNC vertical turning lathe** with a fixed crossbeam, designed for precise and stable machining of large industrial workpieces. The machine enables machining of components with a maximum turning diameter of up to **5000 mm** and a table load capacity of **32 tonnes**, optionally up to **50 tonnes**.

The model was designed for high rigidity and repeatable accuracy. High-quality castings, a symmetrical gantry construction, hydrostatic table bearings and hydrostatic guideways ensure smooth and efficient machining of disc-shaped workpieces, rings, flanges and large technical components.

5000
Max. Turning Diameter



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5000 mm

4000

Table Diameter

4000 mm, optional 4500 mm

1600

Max. Workpiece Height

1600 mm, optional 2000 / 2500 mm

32T

Table Load Capacity

32 t, optional 50 t

DTL-50F/CNC – double-column CNC vertical turning lathe with a fixed crossbeam.

The model offers a maximum turning diameter of 5000 mm, a 4000 mm table with an optional 4500 mm version, a 32 t table load capacity with an optional 50 t version, a workpiece height of 1600 mm with an optional 2000 or 2500 mm version, a 75 kW main motor with an optional 90 kW version and a CNC system with AC drive and speed control via a VDF unit.

Photo Gallery

Images and Key Components of the DTL-50F/CNC Model

Images showing the machine's key components and functions



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CNC Control

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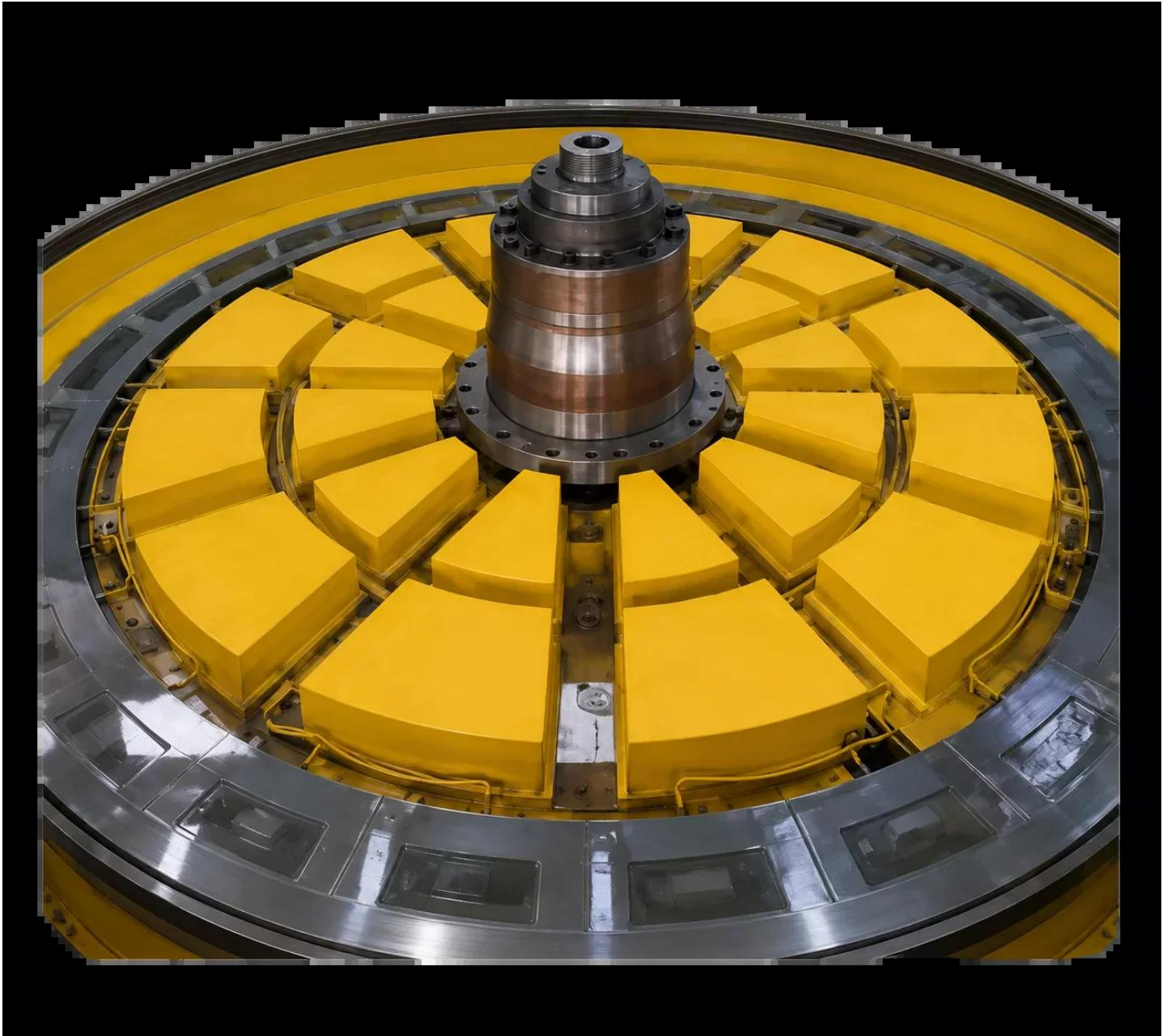
MPG Handwheel



Spindle Rotary Encoder



Speed Reducer



Hydrostatic Guideways
Technical Features

Key Features of the DTL-50F/CNC

High-quality LEF / VSR castings and a rigid, symmetrical double-column construction provide stability during machining.

2 or 1 ram head — configurable with one CNC head for finish machining and one manual head for rough



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turning.

AC main motor with a VDF unit provides smooth adjustment of machine operating speeds.

Hydrostatic table bearings and high table load capacity enable stable machining of heavy workpieces.

Fixed crossbeam provides high rigidity, productivity and accuracy when machining disc-shaped components.

Hydrostatic guideways improve motion smoothness, durability and machine operating stability.

Applications

Where is the DTL-50F/CNC lathe suitable?

The DTL-50F/CNC is suitable for machining large disc-shaped workpieces, rings, flanges, housings, bearing components and industrial parts that require stable clamping on a large table and precise CNC machining.

Heavy industry – machining large housings, castings and structural components.

Flange and ring production – stable machining of round and disc-shaped workpieces.

Bearing industry – turning large rings, raceways and rotary components.

CNC machining shops – for repeatable and accurate machining of workpieces up to 5000 mm in diameter.

DTL-50F/CNC Specifications

Technical Specifications of the DTL-50F/CNC Model

Model **DTL-50F/CNC**

Machine Type **CNC Vertical Turning Lathe**

Construction **Double-column / gantry construction with a fixed crossbeam**

Configuration **CNC**

Max. Turning Diameter **5000 mm**

Table Diameter **4000 mm, optional 4500 mm**

Max. Workpiece Height **1600 mm, optional 2000 mm or 2500 mm**



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Table Load Capacity **32 t, optional 50 t**

Main Motor Power **75 kW, optional 90 kW**

Control **Siemens 828D / Siemens 840D / Fanuc 0i-mate TD / Fanuc 0i-TD / Fanuc 32i**

Main Drive **AC motor with VDF unit for variable speed control**

Table Bearings **Hydrostatic bearings providing high load capacity**

Guideways **Hydrostatic Guideways**