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### DTL-31F/CNC Vertical Turning Lathe 3150 mm





Main image of the DTL-31F/CNC model  
CNC Vertical Turning Lathe

### DTL-31F/CNC Vertical Turning Lathe

Double-column CNC vertical turning lathe with a fixed crossbeam for machining workpieces up to 3150 mm

**DTL-31F/CNC** is a **double-column CNC vertical turning lathe** with a fixed crossbeam, designed for precise and stable machining of industrial workpieces. The machine enables machining of components with a maximum turning diameter of up to **3150 mm** and a table load capacity of **12 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.

3150  
Max. Turning Diameter  
3150 mm



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2830

Table Diameter

2830 mm

1200

Max. Workpiece Height

1200 mm, optional 1600 mm

12T

Table Load Capacity

12 t

**DTL-31F/CNC – double-column CNC vertical turning lathe with a fixed crossbeam.**

The model offers a maximum turning diameter of 3150 mm, a 2830 mm table, a 12 t table load capacity, a workpiece height of 1200 mm with an optional 1600 mm, a 55 kW main motor and a CNC system with AC drive and speed control via a VDF unit.

Photo Gallery

### **Images and Key Components of the DTL-31F/CNC Model**

Images showing the machine's key components and functions



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CNC Control

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MPG Handwheel



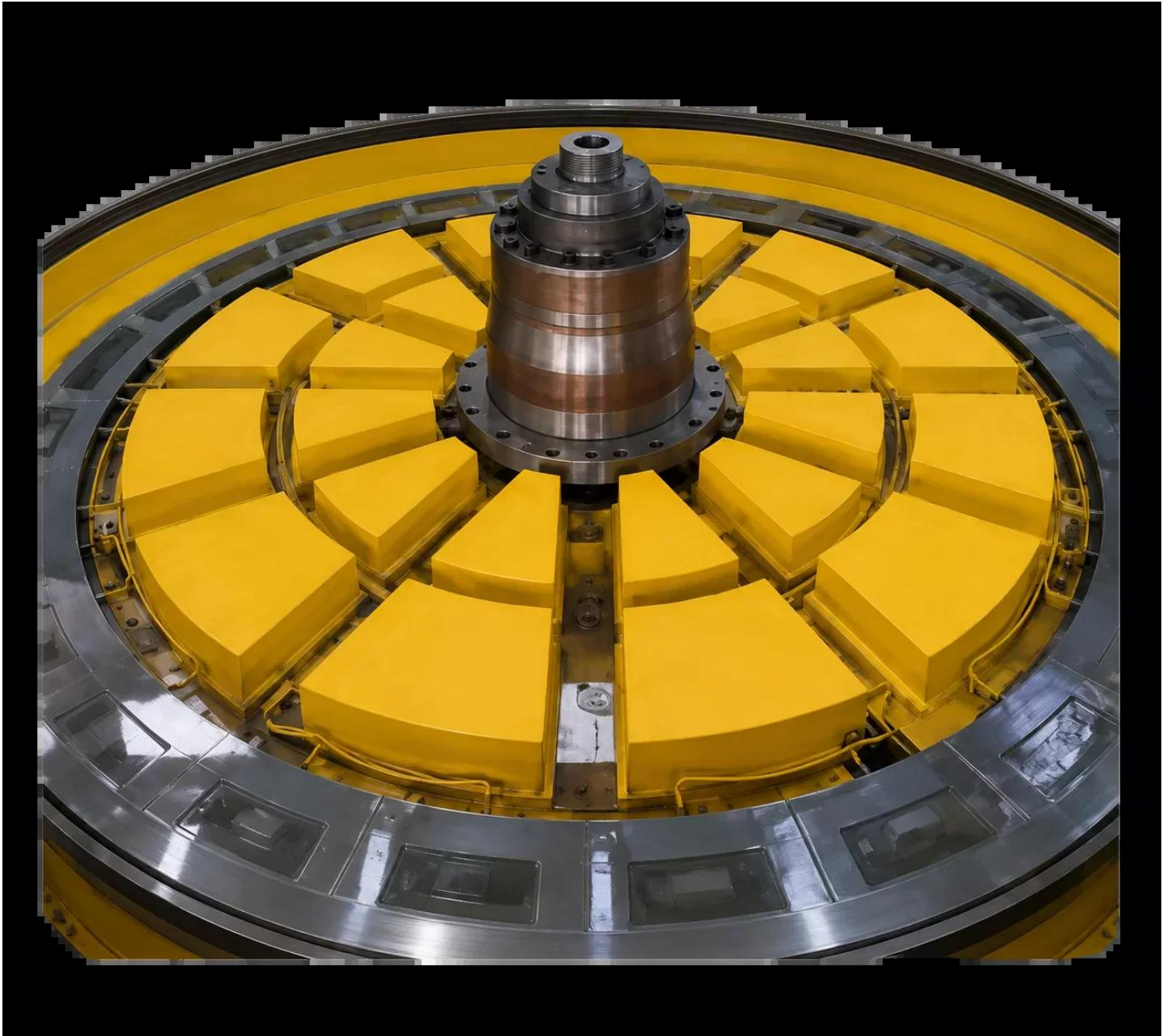
Spindle Rotary Encoder

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Speed Reducer



Hydrostatic Guideways  
Technical Features

### Key Features of the DTL-31F/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-31F/CNC lathe suitable?

The DTL-31F/CNC is suitable for machining 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 3150 mm in diameter.

DTL-31F/CNC Specifications

### Technical Specifications of the DTL-31F/CNC Model

Model **DTL-31F/CNC**

Machine Type **CNC Vertical Turning Lathe**

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

Configuration **CNC**

Max. Turning Diameter **3150 mm**

Table Diameter **2830 mm**

Max. Workpiece Height **1200 mm, optional 1600 mm**



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Table Load Capacity **12 t**

Main Motor Power **55 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**