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DTL-31CNC CNC Vertical Turning Lathe 3150 mm





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Double-Column CNC Lathe

DTL-31CNC CNC Vertical Turning Lathe

Double-column CNC vertical turning lathe for heavy machining of workpieces with turning diameters up to 3150 mm



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DTL-31CNC is a heavy-duty vertical turning lathe of the **double-column CNC** type, designed for precision machining of large and massive components in industrial, power generation, mining, construction and manufacturing facilities.

The design is based on a rigid, symmetrical double-column arrangement, hydrostatic table guideways, two ram heads and a CNC system for accurate and repeatable machining. The DTL-31CNC model offers a turning diameter of up to **3150 mm** and a table diameter of **2250 mm**.

3150

Max. Turning Diameter

3150 mm

2250

Table Diameter

2250 mm

12T

Table Load Capacity

12 t, optional 20 / 30 t

55

Main Motor Power

55 kW

Heavy-duty CNC machine for large industrial components.

The DTL-31CNC combines a robust double-column construction, two working heads, hydrostatic table bearings, automatic lubrication, axis servodrives, ball screws and Siemens SINUMERIK 828D / 840D CNC control.

Photo Gallery

Images and Equipment Components

Technical Machine Images



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Main Machine View

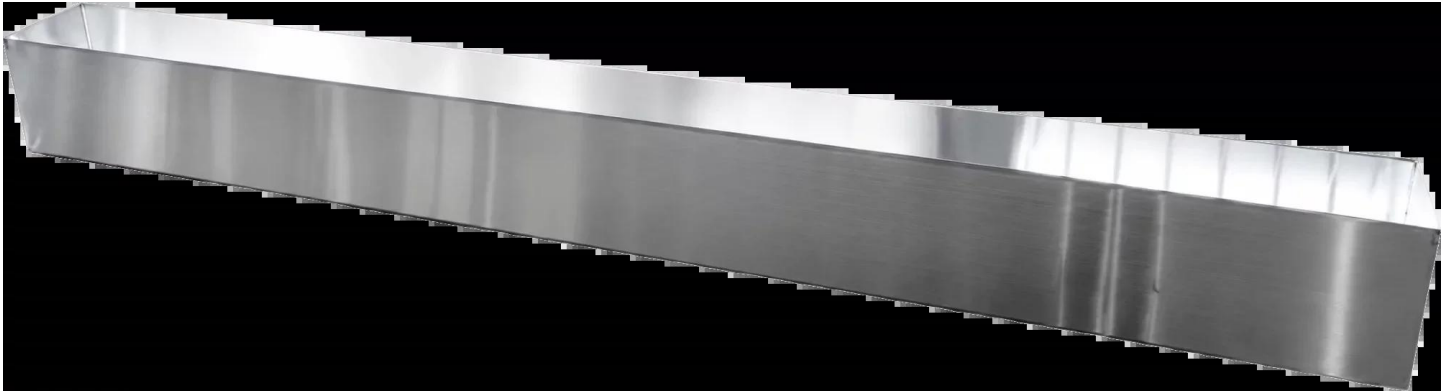


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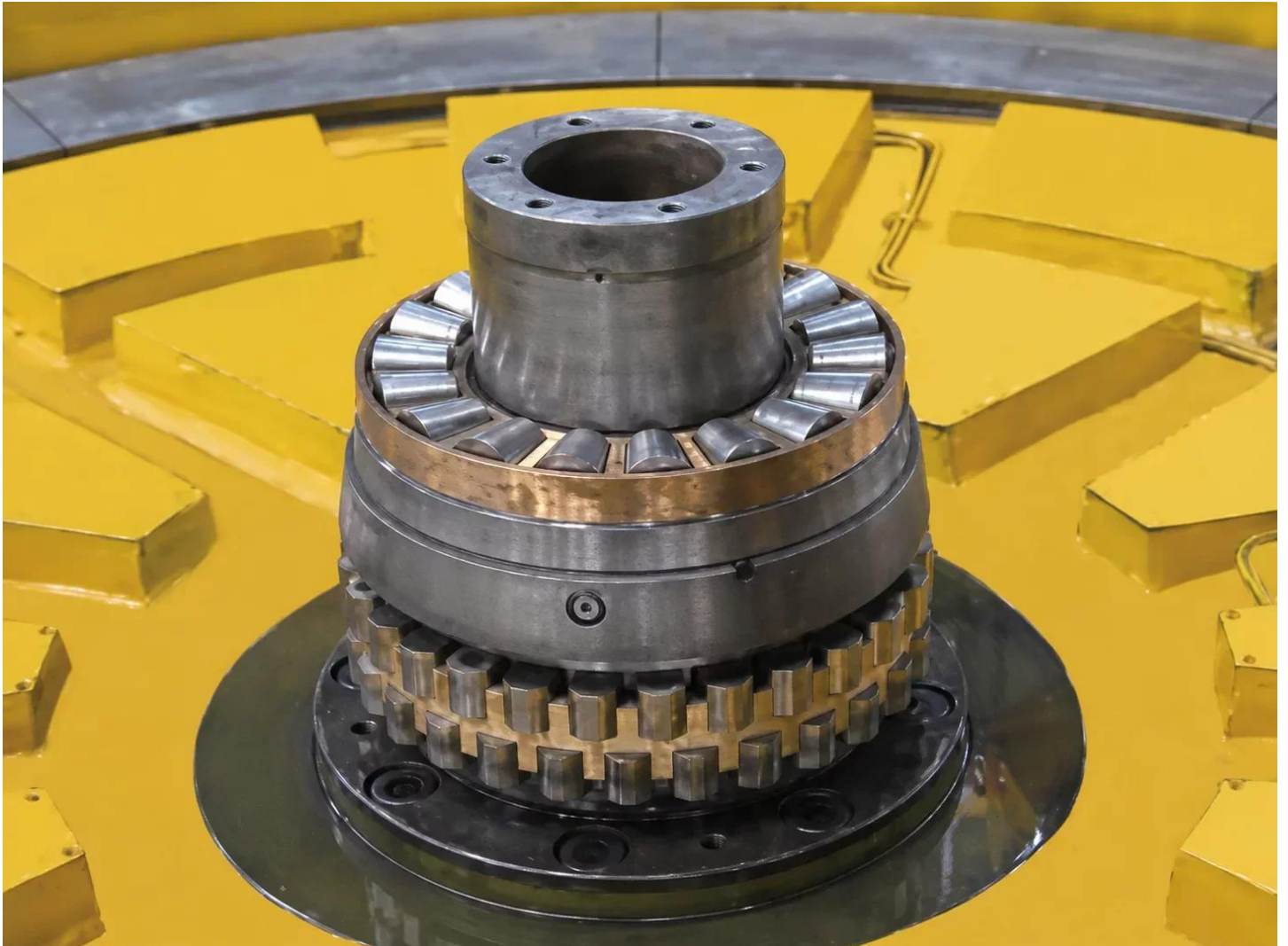


CNC Operator Panel

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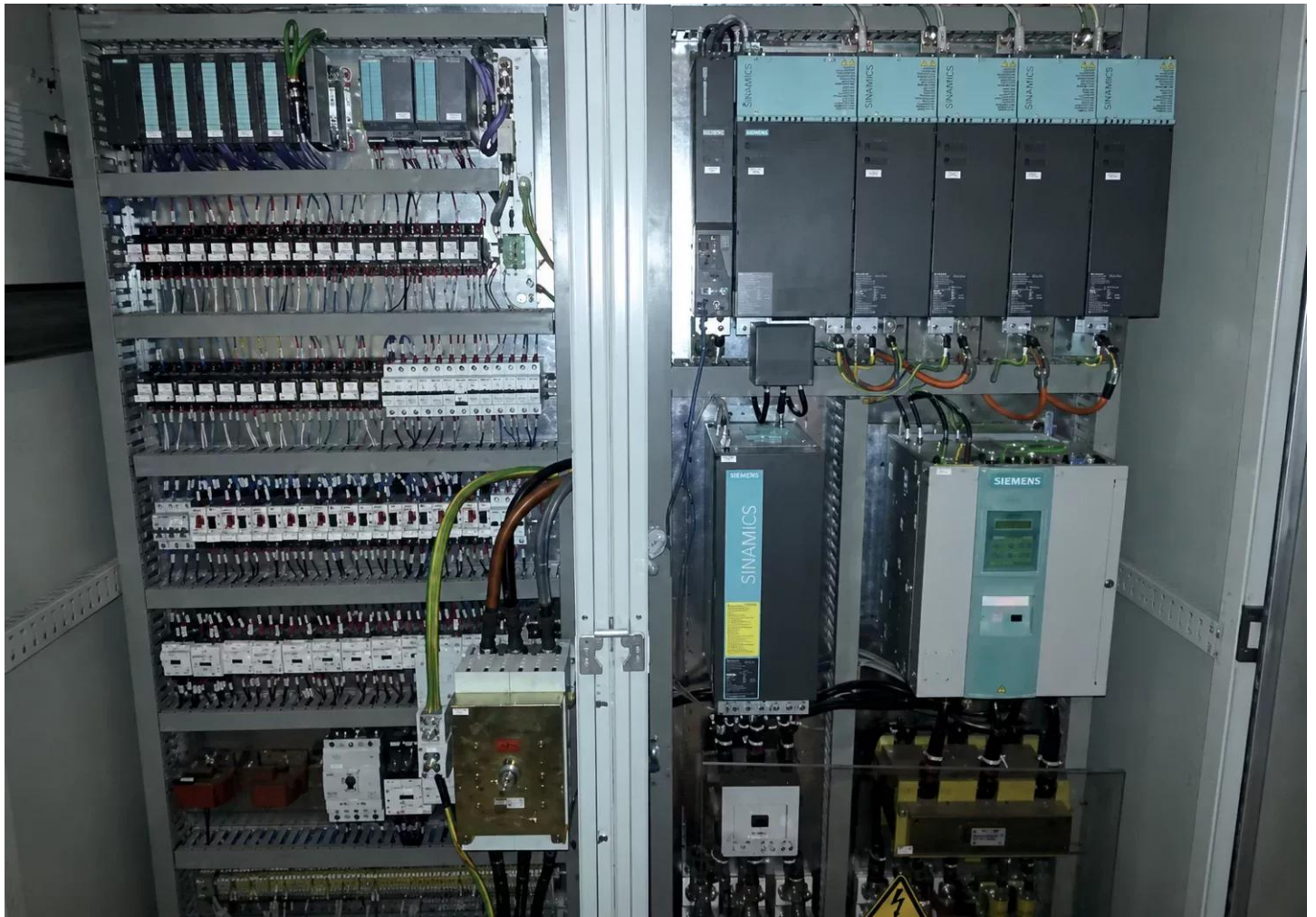


Beam / Guideways

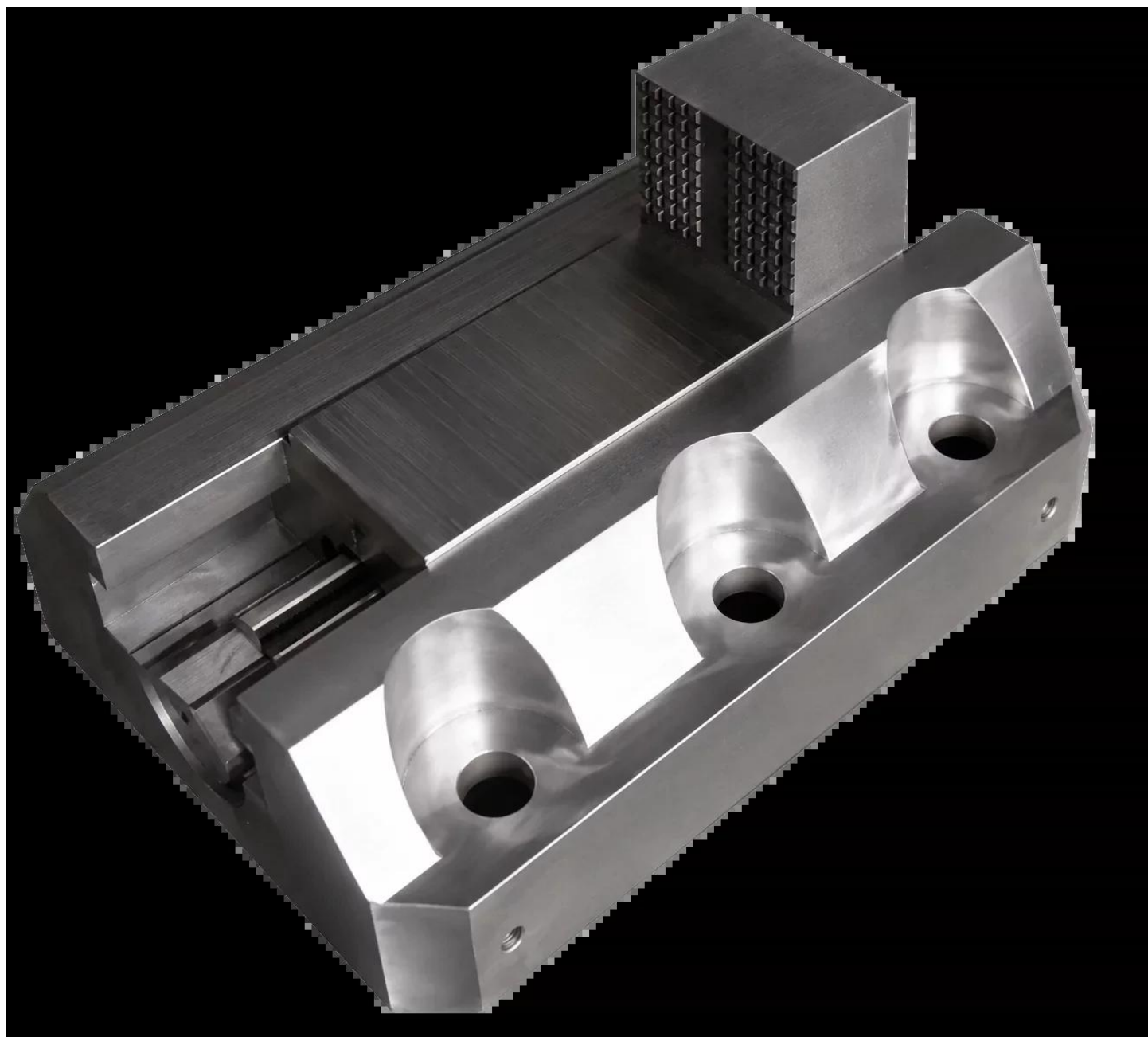


Spindle and Base

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Electrical Cabinet
Standard Equipment



Chuck Jaws

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Tool Holder

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Leveling Wedges and Screws

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Hand Tools

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Oil Can
Optional Equipment



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FANUC CNC

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Electric Turret Head

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Linear Scales



Ball Screws

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Paper Filter
Industrial Applications

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Turbine Industry



Tank Industry



Engineering and Manufacturing



Oil & Gas



Forges and Foundries
Technical Features

Key Features of the DTL-31CNC

High-quality castings and a rigid, symmetrical double-column construction.

Two ram heads – one CNC head for finish turning and one manual head for rough machining.

AC/DC main motor with a VDF unit providing variable working speeds.

Hydrostatic bearings enabling machining of heavy workpieces.

Automatic forced lubrication of the main guideways for stable and safe operation.

Feed servodrive and ball screws provide precise CNC feeds.

Precision rotary encoder on the spindle enables threading and CSS machining functions.



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Siemens SINUMERIK 828D / 840D CNC system with a colour TFT monitor.

Applications

Where is the DTL-31CNC lathe suitable?

The DTL-31CNC is designed for machining large, heavy and oversized components, especially where high system rigidity, CNC repeatability, a stable working table and safe workpiece clamping are required.

Turbine industry — machining large rings, housings, discs and rotating components.

Tank industry — tank components, flanges, rings and oversized elements.

Oil & Gas — plant components, housings, flanges and parts operating in demanding conditions.

Forges and foundries — machining large castings, forgings and components that require a rigid CNC machine.

DTL-31CNC Specifications

Technical Specifications for the DTL-31CNC Model

Model **DTL-31CNC**

Machine Type **Vertical Turning Lathe — double-column CNC vertical turning lathe**

Version **Double-column, CNC**

Maximum Turning Diameter **3150 mm**

Table Diameter / Size **2250 mm, opcjonalnie 2500 / 2800 mm**

Maximum Workpiece Height **1600 mm, opcjonalnie 2000 / 2500 mm**

Table Load Capacity **12 ton, opcjonalnie 20 / 30 ton**

Main Motor Power **55 kW**

Number of Working Heads **2 ram heads — one CNC for finish turning, one manual for rough turning**

Motor and Speeds **AC/DC main motor with VDF unit — variable working speeds**

Table Bearings **Hydrostatic bearings for high-load operation**

Lubrication **Automatic forced guideway lubrication**

Feed Drive **Feed servodrive and ball screws for precise feeds**

Spindle Encoder **Precision rotary encoder for threading and CSS functions**

CNC Control **Siemens SINUMERIK 828D / 840D CNC with a colour TFT monitor**

Optional Control **FANUC CNC**

Standard Equipment **Chuck jaws, tool holder, leveling wedges and screws, hand tools, oil can**

Optional Equipment **FANUC CNC, electric turret head, linear scales, ball screws, paper filter**



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Applications **Turbine industry, tank industry, Oil & Gas, engineering, forges and foundries**