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DTL-23CNC Single-Column Vertical Turning Lathe, 2300 mm





Main image of the DTL-23CNC model – single-column CNC vertical turning lathe
CNC Vertical Turning Lathe



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DTL-23CNC Single-Column Vertical Turning Lathe, 2300 mm

Single-column CNC vertical turning lathe for precision machining of workpieces up to 2300 mm in diameter

DTL-23CNC is a **single-column CNC vertical turning lathe**, designed for stable and accurate machining of disc-shaped components, flanges, rings, wheels, housings and industrial parts requiring rigid clamping on the rotary table.

The machine was designed for production and workshop applications. Solid castings, a rigid construction, an AC main drive with a VDF unit and CNC control ensure high repeatability, smooth speed adjustment and good machining quality across different materials.

2300

Max. Turning Diameter

2300 mm

2000

Table Diameter

2000 mm

10T

Max. Workpiece Weight

10 tonnes

45

Main Motor Power

45 kW

DTL-23CNC – CNC vertical turning lathe for workpieces up to 2300 mm.

The model offers a maximum turning diameter of 2300 mm, a 2000 mm table, a workpiece height of 1600 mm with an optional 2000 mm version, a table load capacity of 10 t, a table speed range of 2.5–80 rpm in 4 gear stages and a 45 kW main motor.

Enclosure Versions

Example of the Lathe with an Enclosure and Chip Removal System



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Example of an Enclosed CNC Vertical Turning Lathe



Example of an Enclosure with Chip Removal and a Container
Equipment and Applications

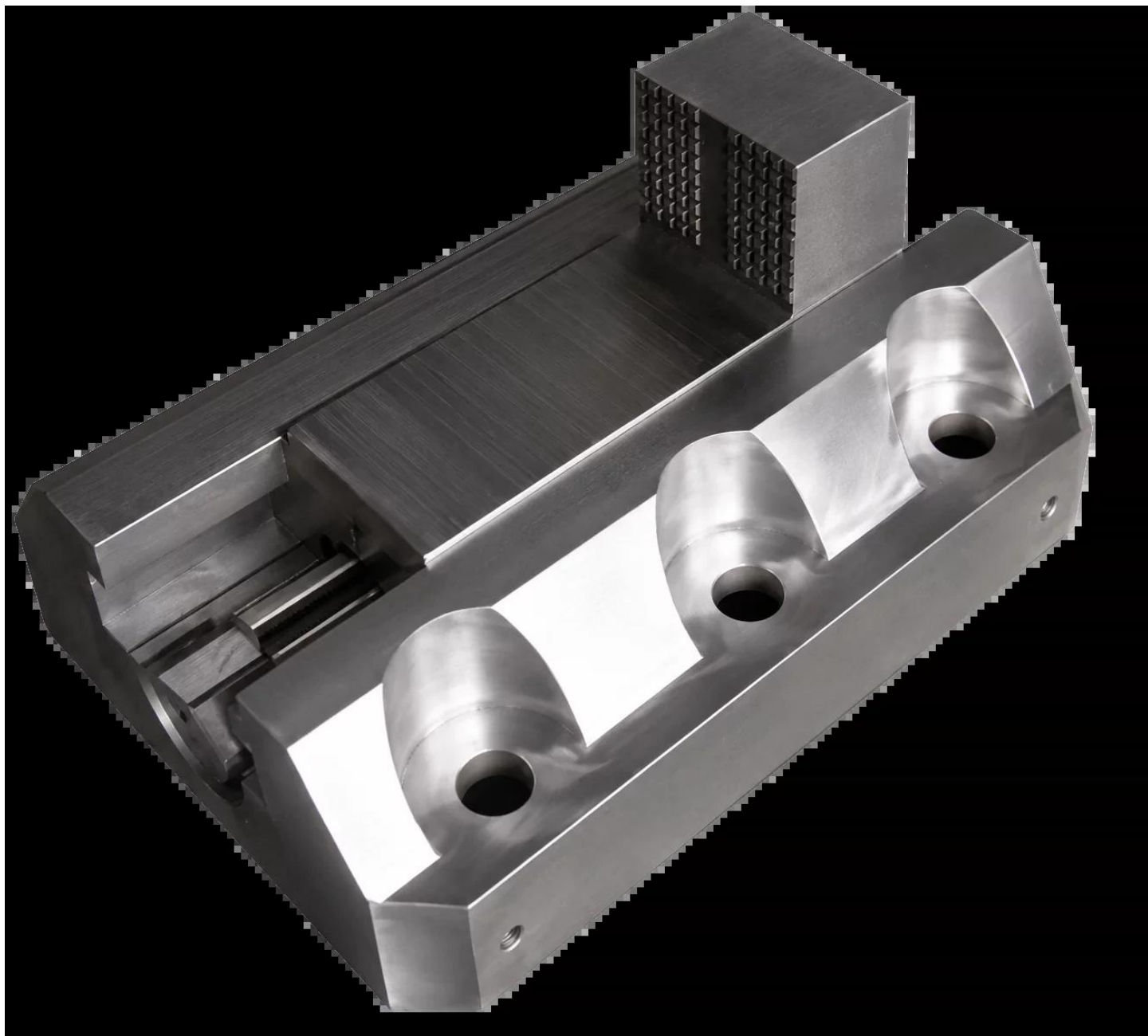
Standard Equipment, Options and Application Industries for the DTL-23CNC

Included Equipment

Standard Equipment

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Components supplied with the machine, required for basic workstation preparation, workpiece clamping, operation and routine lathe maintenance.



Chuck Jaws

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Tool Holder



Leveling Wedges and Screws

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Hand Tools

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Oil Can

Optional Equipment

Options

Components that can be selected optionally depending on the machine configuration, production type,



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safety requirements and desired process automation.



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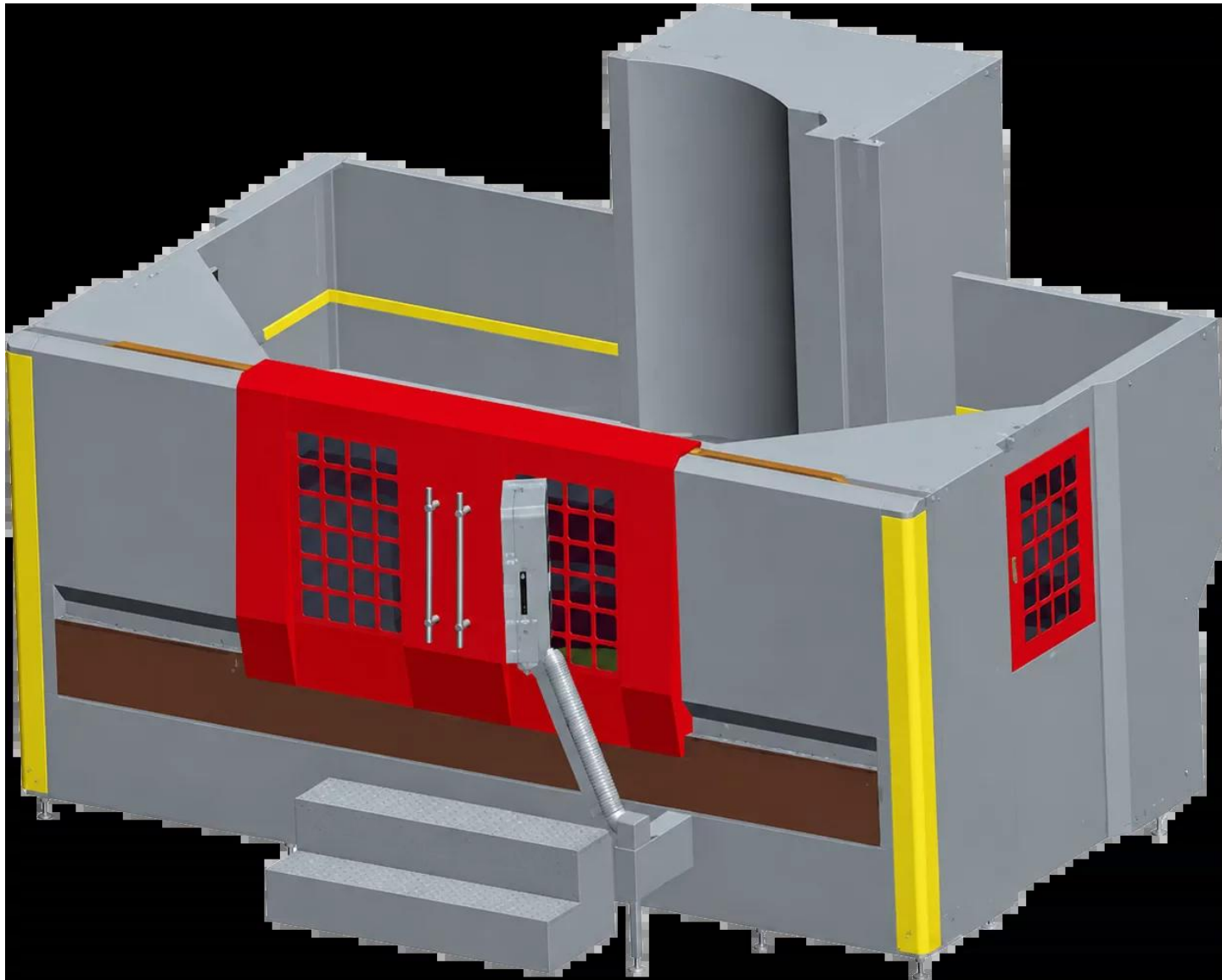
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FANUC CNC Control

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Electric Tool Turret



Guards / Protective Enclosure

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Roller Bearing

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Hydraulic Chuck

Example Applications

Industry

The DTL-23CNC is suitable for machining disc-shaped components, rings, flanges, housings and precision workpieces used across various industrial sectors.



Pump Industry

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Shipbuilding Industry



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Power Generation



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Vehicle and Transport Industry



Engineering and Precision Workpieces
Technical Features

Key Features of the DTL-23CNC

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

AC main motor with a VDF unit enables smooth speed adjustment and matching operating parameters to the material.

Variable spindle speed at every gear stage makes it possible to adapt the turning process to different machining requirements.



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Hydrostatic bearings provide high table load capacity. An optional roller bearing is available for higher speeds.

Automatic forced guideway lubrication system supports machine durability and smooth operation.

Servo motors and ball screws are responsible for precise feeds and repeatable positioning.

Precision spindle rotary encoder supports threading and the CSS function, i.e. constant surface speed.

Siemens SINUMERIK 828D / 840D CNC control with a colour TFT monitor facilitates operation and process control.

Applications

Where is the DTL-23CNC lathe suitable?

The DTL-23CNC is suitable for machining workpieces which, due to their weight, diameter or shape, are best clamped on a horizontal rotary table. It is a practical solution for companies performing turning of disc-shaped components, rings, flanges, housings, wheels and technical components.

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

Machinery industry – turning housings, casings and precision technical components.

Power generation and transport – machining drive components, discs, hubs and structural parts.

CNC machining facilities – repeatable production and machining of workpieces up to 2300 mm in diameter.

DTL-23CNC Specifications

Technical Specifications of the DTL-23CNC Model

Model **DTL-23CNC**

Machine Type **Single-Column CNC Vertical Turning Lathe**

Maximum Turning Diameter **2300 mm**

Table Diameter **2000 mm**



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Maximum Workpiece Height **1600 mm, optional 2000 mm**

Maximum Workpiece Weight / Load **10 tonnes**

Table / Spindle Speed Range **2.5–80 rpm, 4 gear stages**

Vertical Ram Stroke **Configuration-dependent parameter**

Head / Tool Holder **Manual square tool holder; optional manual 5-position head / NC 4-position head / 6-position head**

Main Motor Power **45 kW**

Machine Weight **21 t, optional approx. 22 t**

CNC System **Siemens 828D s.l. / Siemens 840D s.l. / Fanuc 0i-mate TD / Fanuc 0i-TD / Fanuc 32i**

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

Table Bearings **Hydrostatic, optionally roller bearings for operation at higher speeds**