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DTL-16CNC 1600 mm Single-Column Vertical Turning Lathe





Main image of the DTL-16CNC model – single-column CNC vertical turning lathe
CNC Vertical Turning Lathe



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DTL-16CNC 1600 mm Single-Column Vertical Turning Lathe

Single-Column CNC Vertical Turning Lathe for Precision Machining of Workpieces up to 1600 mm in Diameter

DTL-16CNC 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 is designed for production and workshop use. Robust castings, a rigid construction, AC main drive with a VDF unit and CNC control provide high repeatability, smooth speed control and good machining quality across different materials.

1600
Max. Turning Diameter
1600 mm
1400
Table Diameter
1400 mm
6T
Max. Workpiece Weight
6 t
30
Main Motor Power
30 kW

DTL-16CNC – high-performance CNC vertical turning lathe for workpieces up to 1600 mm.

The model offers a maximum turning diameter of 1600 mm, an 1400 mm table, workpiece height of 1000 mm with optional 1200 or 1400 mm versions, 6 t table load capacity, table speed range of 5–160 rpm in 4 steps and a 30 kW main motor.

Enclosure Versions

Example of the Lathe with an Enclosure and Chip Removal System



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Example of a CNC vertical turning lathe with an enclosure



Example of an enclosure with chip removal system and container
Equipment and Applications

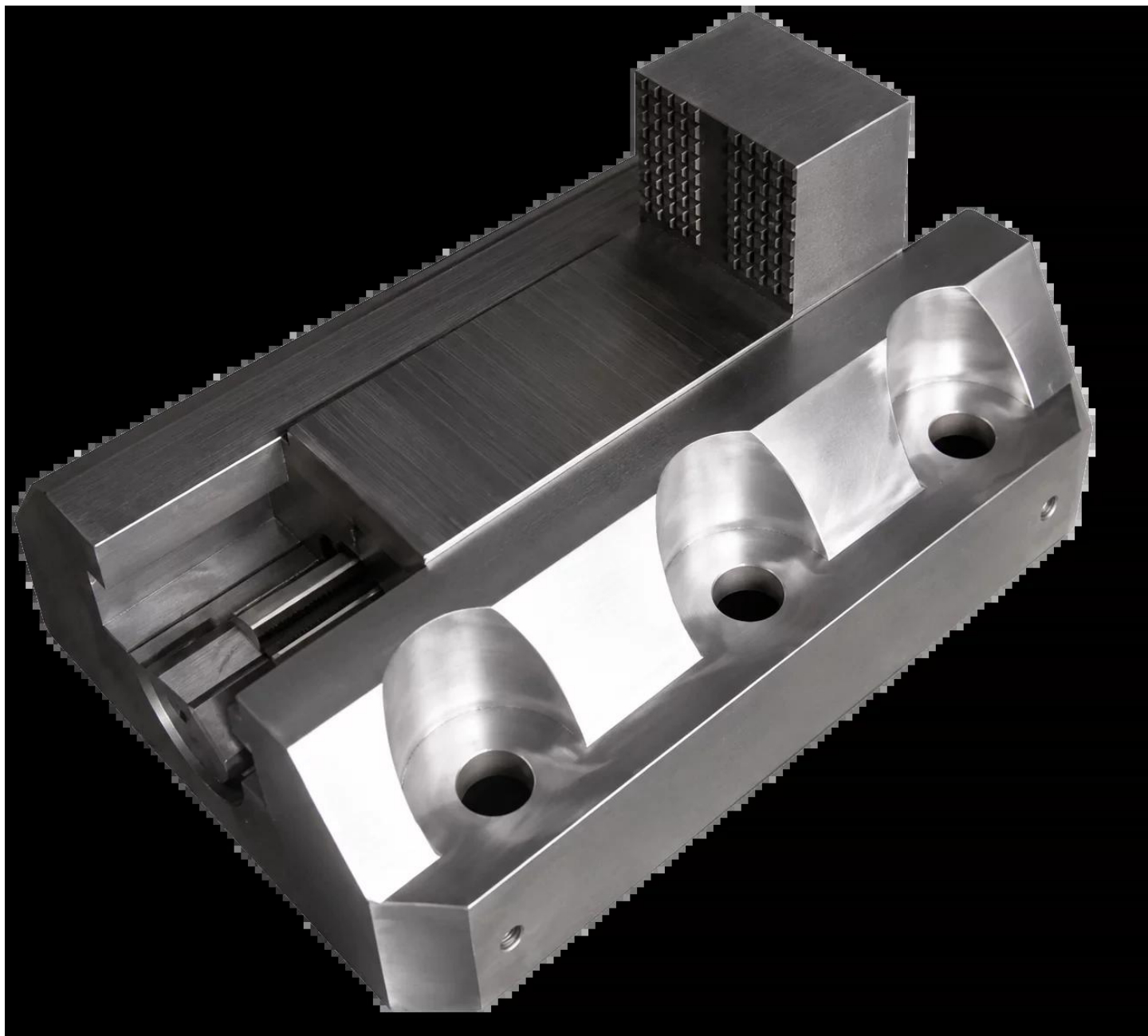
Standard Equipment, Options and Application Industries of the DTL-16CNC

Included Equipment

Standard

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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 machine configuration, production type, safety



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requirements and the expected level of process automation.



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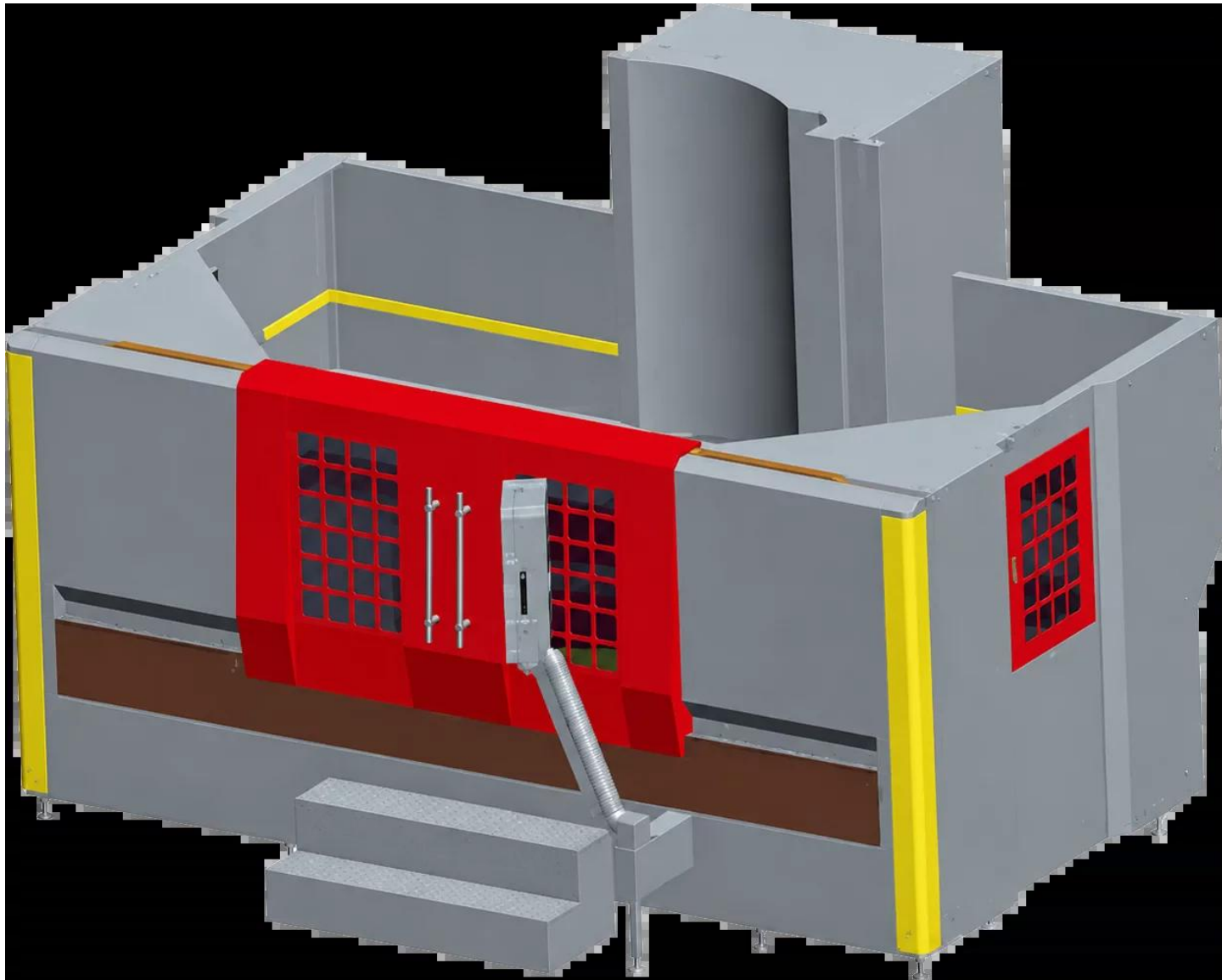
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FANUC CNC Control

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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-16CNC is suitable for machining disc-shaped components, rings, flanges, housings and precision workpieces used across different industrial sectors.



Pump Industry

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Marine Industry



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Power Generation



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Vehicle and Transport Industry



Engineering and Precision Components
Technical Features

Key Features of the DTL-16CNC

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

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

Variable spindle speed in every gear step allows the turning process to be adapted to different machining requirements.



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

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

Servo motors and ball screws provide precise feeds and positioning repeatability.

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-16CNC Lathe Suitable?

The DTL-16CNC 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 circular and disc-shaped workpieces.

Machinery industry – turning housings, enclosures 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 1600 mm in diameter.

DTL-16CNC Specifications

Technical Specifications of the DTL-16CNC Model

Model **DTL-16CNC**

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

Maximum Turning Diameter **1600 mm**

Table Diameter **1400 mm**



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Maximum Machined Workpiece Height **1000 mm, optional 1200 mm or 1400 mm**

Maximum Workpiece Weight / Load **6 t**

Table / Spindle Speed Range **5–160 rpm, 4 steps**

Vertical Ram Travel **Parameter dependent on configuration**

Tool Head / Tool Holder **Manual square tool holder, optionally a manual 5-position tool head / NC 4-position tool head / 6-position tool head**

Main Motor Power **30 kW**

Machine Weight **13 t, optionally approx. 14.5 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 bearing for higher-speed operation**