



KARTA PRODUKTOWA

DTL-20CNC 2000 mm Single-Column Vertical Turning Lathe





Main image of the DTL-20CNC model – single-column CNC vertical turning lathe
CNC Vertical Turning Lathe



KARTA PRODUKTOWA

DTL-20CNC 2000 mm Single-Column Vertical Turning Lathe

Single-Column CNC Vertical Turning Lathe for Precision Machining of Workpieces up to 2000 mm in Diameter

DTL-20CNC 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.

2000

Max. Turning Diameter

2000 mm

1800

Table Diameter

1800 mm

8T

Max. Workpiece Weight

8 t

37/45

Main Motor Power

37/45 kW

DTL-20CNC – CNC vertical turning lathe for workpieces up to 2000 mm.

The model offers a maximum turning diameter of 2000 mm, an 1800 mm table, workpiece height of 1200 mm with an optional 1600 mm version, 8 t table load capacity, table speed range of 3.15–100 rpm in 4 steps and a 37/45 kW main motor.

Enclosure Versions

Example of the Lathe with an Enclosure and Chip Removal System



KARTA PRODUKTOWA



Example of a CNC vertical turning lathe with an enclosure



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

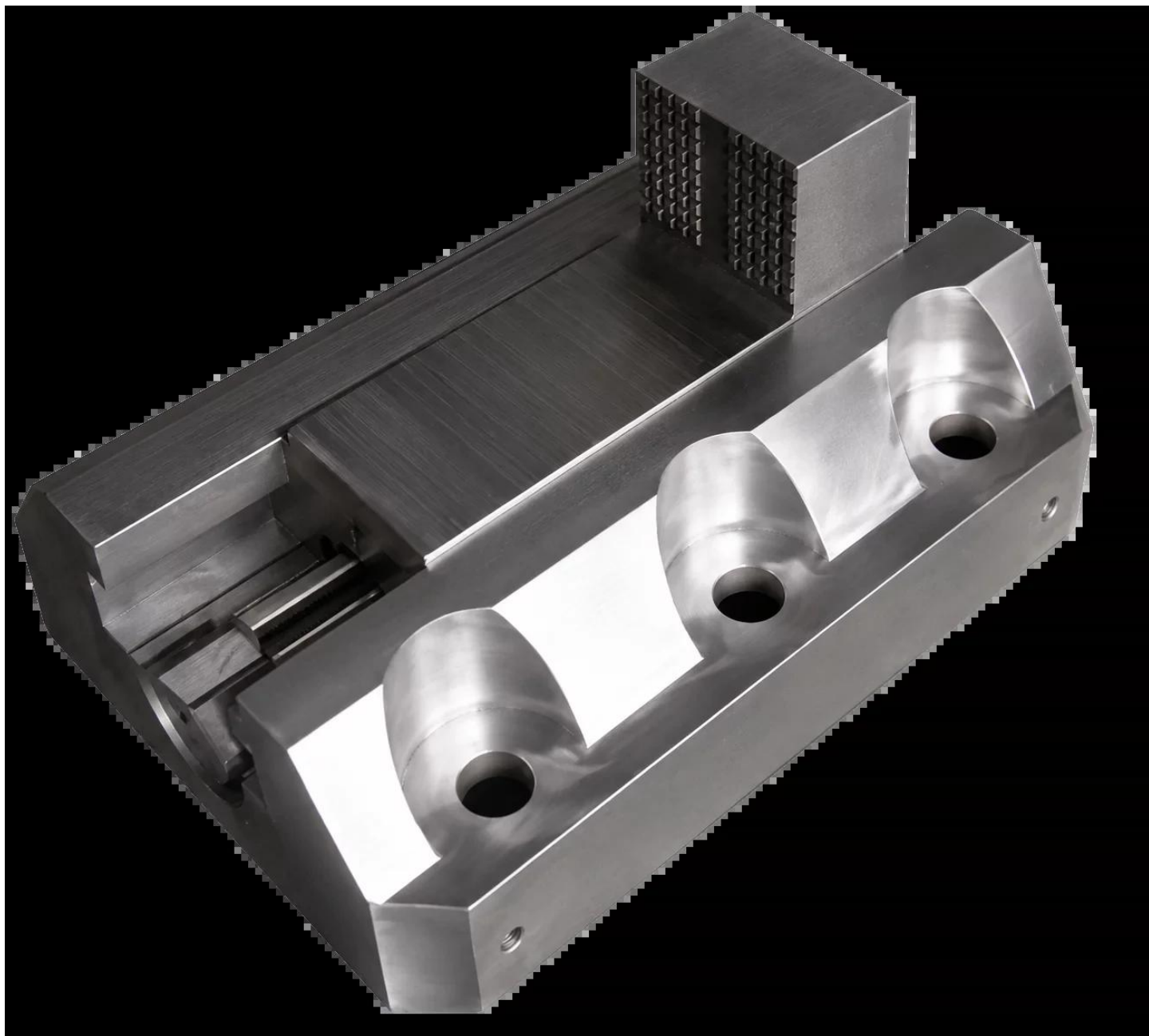
Standard Equipment, Options and Application Industries of the DTL-20CNC

Included Equipment

Standard

KARTA PRODUKTOWA

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



Chuck Jaws

KARTA PRODUKTOWA



Tool Holder

KARTA PRODUKTOWA



Leveling Wedges and Screws

KARTA PRODUKTOWA



Hand Tools

KARTA PRODUKTOWA



Oil Can

Optional Equipment

Options

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



KARTA PRODUKTOWA

requirements and the expected level of process automation.



KARTA PRODUKTOWA





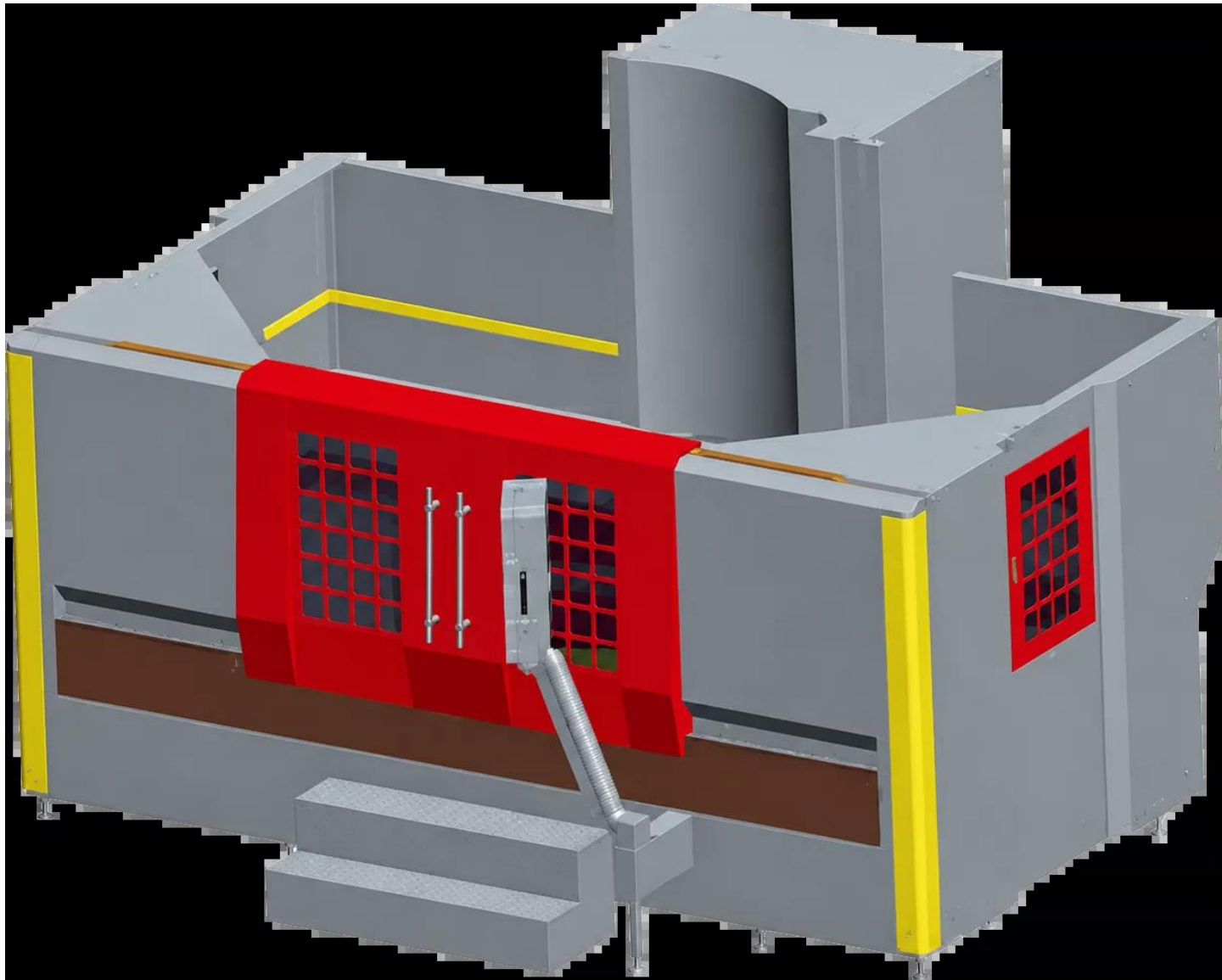
KARTA PRODUKTOWA

FANUC CNC Control

KARTA PRODUKTOWA



Electric Tool Turret



Guards / Protective Enclosure

KARTA PRODUKTOWA



Roller Bearing

KARTA PRODUKTOWA



Hydraulic Chuck

Example Applications

Industry

The DTL-20CNC is suitable for machining disc-shaped components, rings, flanges, housings and precision workpieces used across different industrial sectors.



Pump Industry

KARTA PRODUKTOWA



Marine Industry



KARTA PRODUKTOWA



Power Generation



KARTA PRODUKTOWA



Vehicle and Transport Industry



Engineering and Precision Components
Technical Features

Key Features of the DTL-20CNC

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.



KARTA PRODUKTOWA

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-20CNC Lathe Suitable?

The DTL-20CNC 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 2000 mm in diameter.

DTL-20CNC Specifications

Technical Specifications of the DTL-20CNC Model

Model **DTL-20CNC**

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

Maximum Turning Diameter **2000 mm**

Table Diameter **1800 mm**



KARTA PRODUKTOWA

Maximum Machined Workpiece Height **1200 mm, optional 1600 mm**

Maximum Workpiece Weight / Load **8 t**

Table / Spindle Speed Range **3.15–100 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 **37/45 kW**

Machine Weight **19 t, optionally approx. 20 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**