



KARTA PRODUKTOWA

DTL-100CNC CNC Vertical Turning Lathe 10000 mm





KARTA PRODUKTOWA



Double-Column CNC Lathe

DTL-100CNC CNC Vertical Turning Lathe

Double-column CNC vertical turning lathe for heavy machining of workpieces with turning diameters up to 10000 mm



KARTA PRODUKTOWA

DTL-100CNC is a heavy-duty vertical turning lathe of the **double-column CNC** type, designed for precision machining of very 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-100CNC model offers a turning diameter of up to **10000 mm** and a table diameter of **7100 mm** with an option of **8000 mm**.

10000

Max. Turning Diameter

10000 mm

7100

Table Diameter

7100 mm, opcjonalnie 8000 mm

120T

Table Load Capacity

120 t, optional 200 / 300 / 400 t

110

Main Motor Power

110 kW, optional 130 kW

Heavy-duty CNC machine for the largest industrial components.

The DTL-100CNC 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



KARTA PRODUKTOWA



Main Machine View

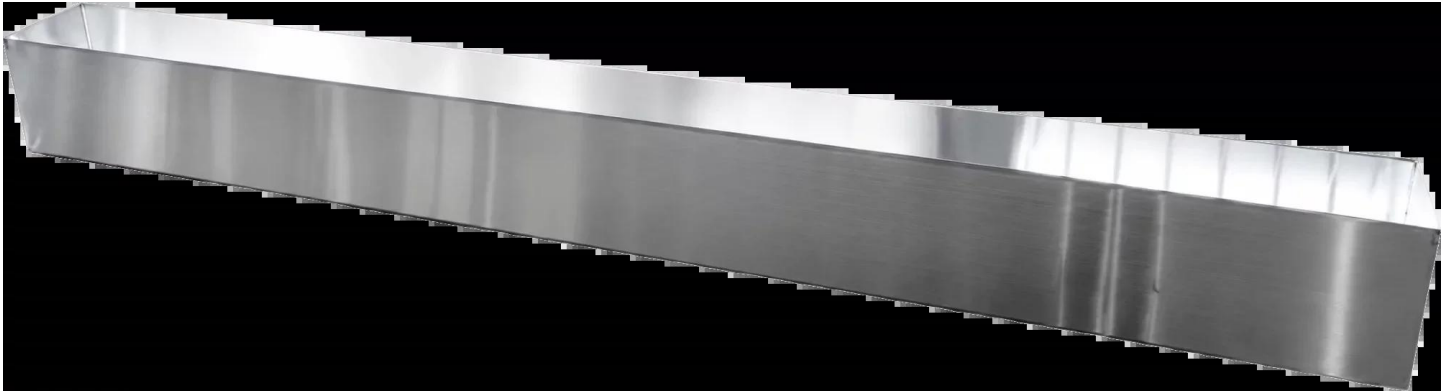


KARTA PRODUKTOWA

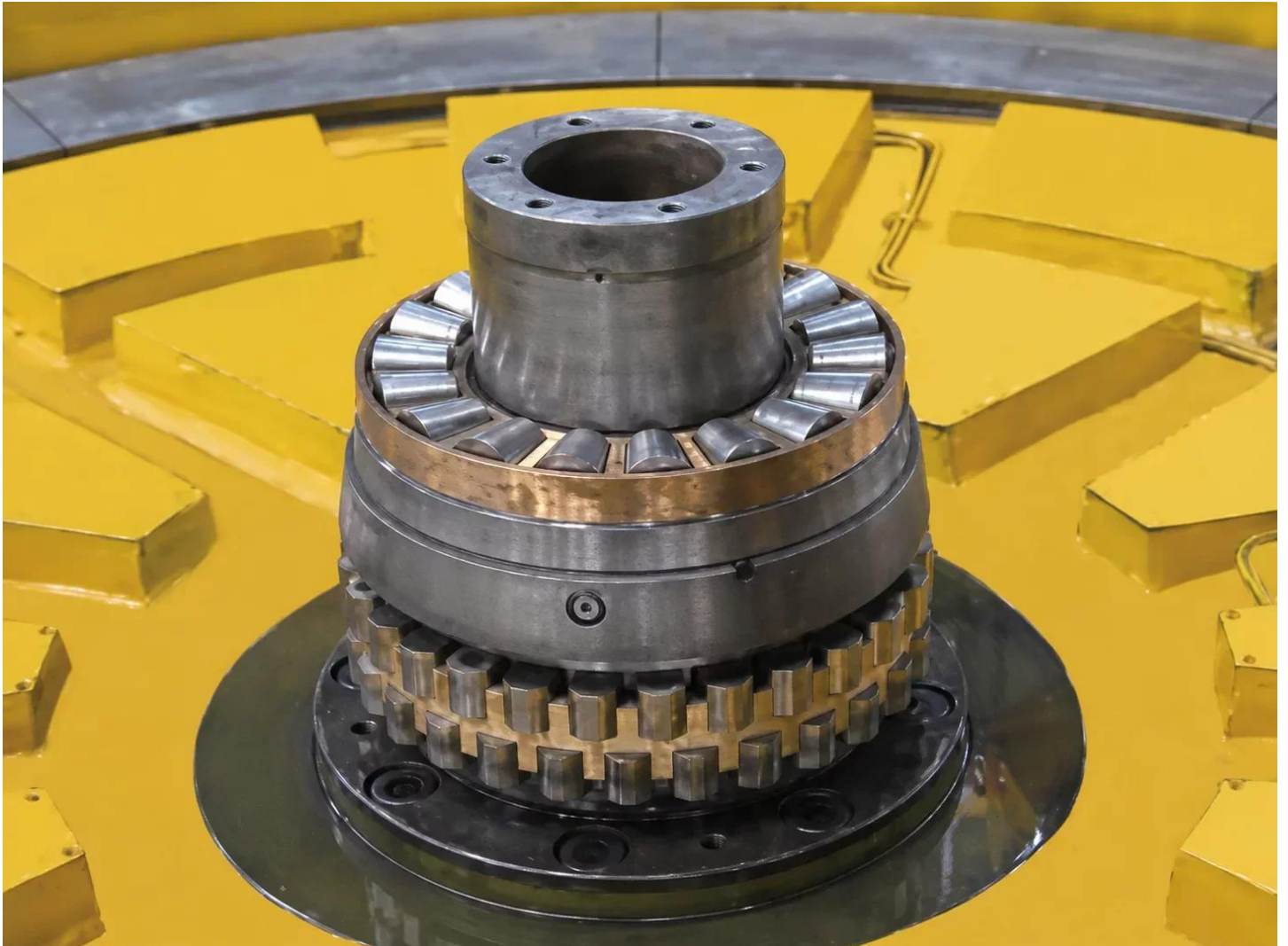


CNC Operator Panel

KARTA PRODUKTOWA

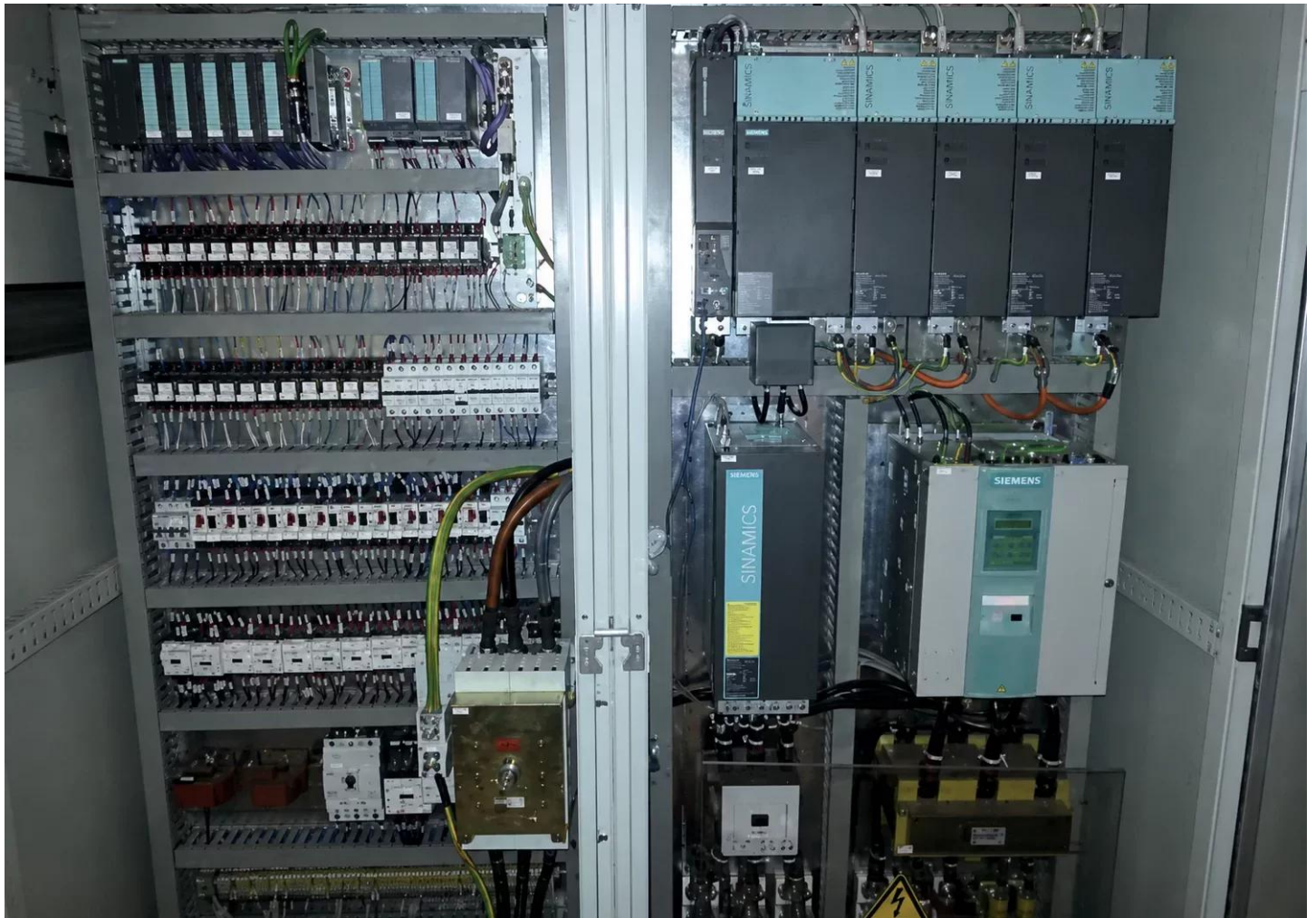


Beam / Guideways

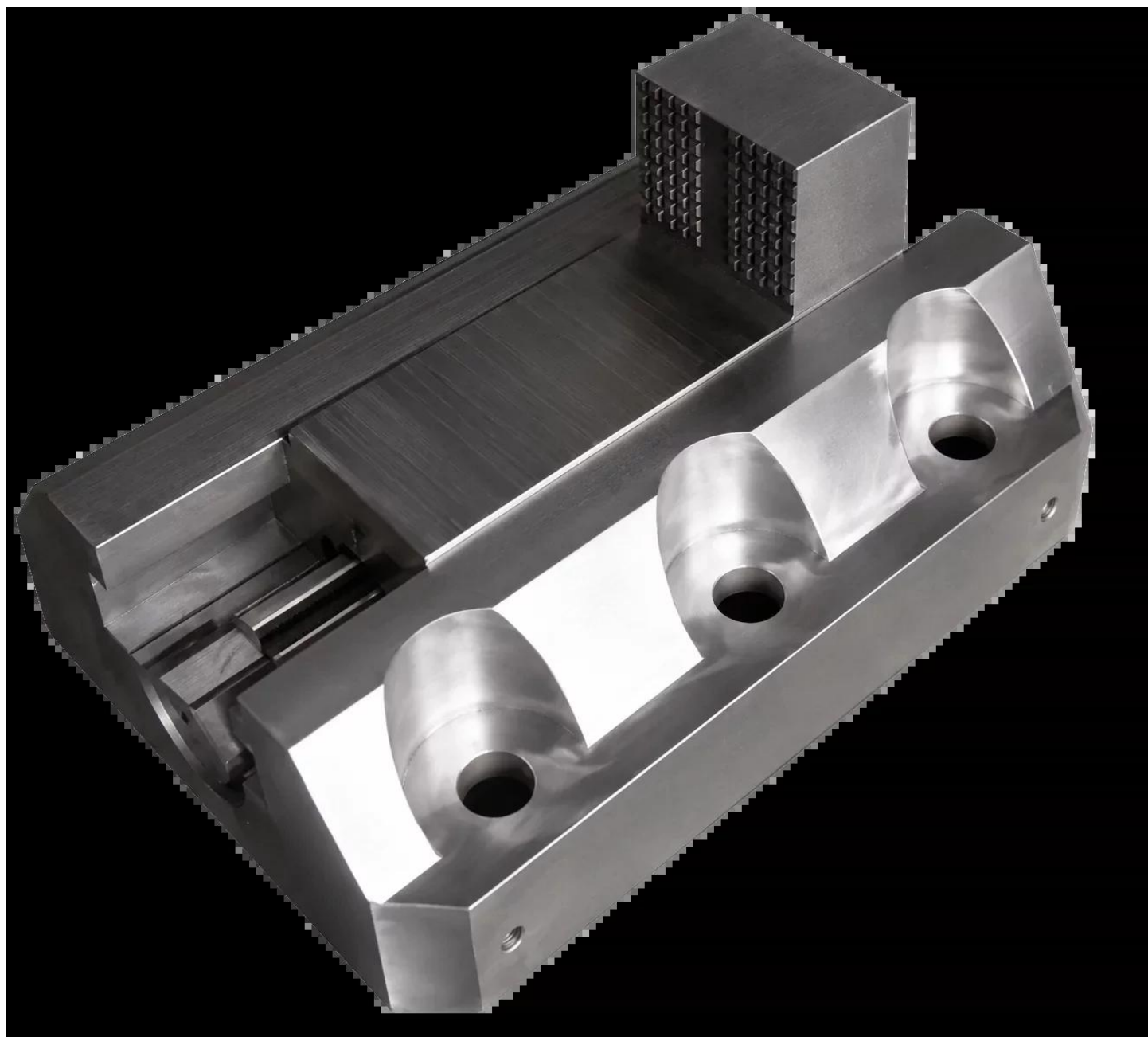


Spindle and Base

KARTA PRODUKTOWA



Electrical Cabinet
Standard Equipment



Chuck Jaws

KARTA PRODUKTOWA



Tool Holder



Leveling Wedges and Screws

KARTA PRODUKTOWA



Hand Tools

KARTA PRODUKTOWA



Oil Can
Optional Equipment



KARTA PRODUKTOWA



FANUC CNC

KARTA PRODUKTOWA



Electric Turret Head

KARTA PRODUKTOWA



Linear Scales



Ball Screws

KARTA PRODUKTOWA



Paper Filter
Industrial Applications

KARTA PRODUKTOWA



Turbine Industry



Tank Industry



Engineering and Manufacturing



Oil & Gas



Forges and Foundries
Technical Features

Key Features of the DTL-100CNC

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.



KARTA PRODUKTOWA

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

Applications

Where is the DTL-100CNC lathe suitable?

The DTL-100CNC is designed for machining very large, heavy and oversized components, especially where high system rigidity, CNC repeatability, a stable working table and safe clamping of a very heavy workpiece 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-100CNC Specifications

Technical Specifications for the DTL-100CNC Model

Model **DTL-100CNC**

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

Version **Double-column, CNC**

Maximum Turning Diameter **10000 mm**

Table Diameter / Size **7100 mm, opcjonalnie 8000 mm**

Maximum Workpiece Height **4000 mm, opcjonalnie 5000 / 6000 mm**

Table Load Capacity **120 tonnes, optional 200 / 300 / 400 tonnes**

Main Motor Power **110 kW, optional 130 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 very 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**



KARTA PRODUKTOWA

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

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