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DTL-31H Double-Column Vertical Turning Lathe – Manual / DRO 3000 mm





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Double-Column Lathe



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DTL-31H Double-Column Vertical Turning Lathe

Double-column vertical turning lathe for heavy machining of workpieces with turning diameters up to 3000 mm

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

The design is based on a rigid, symmetrical arrangement, a robust working table, two working heads and guideways designed for high-load operation. The DTL-31H model offers a turning diameter of up to **3000 mm** and a table diameter of **2500 mm** with an option of **2800 mm**.

3000

Max. Turning Diameter

3000 mm

2500

Table Diameter

2500 mm, opcjonalnie 2800 mm

30T

Table Load Capacity

30 tonnes

55

Main Motor Power

55 kW

Heavy-duty machine for large industrial components.

The DTL-31H combines a robust double-column construction, two working heads, hydrostatic table bearings, 40Cr steel gearboxes and PLC control for safe and repeatable operation.

Photo Gallery

Images and Equipment Components

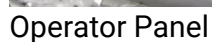
Technical Machine Images



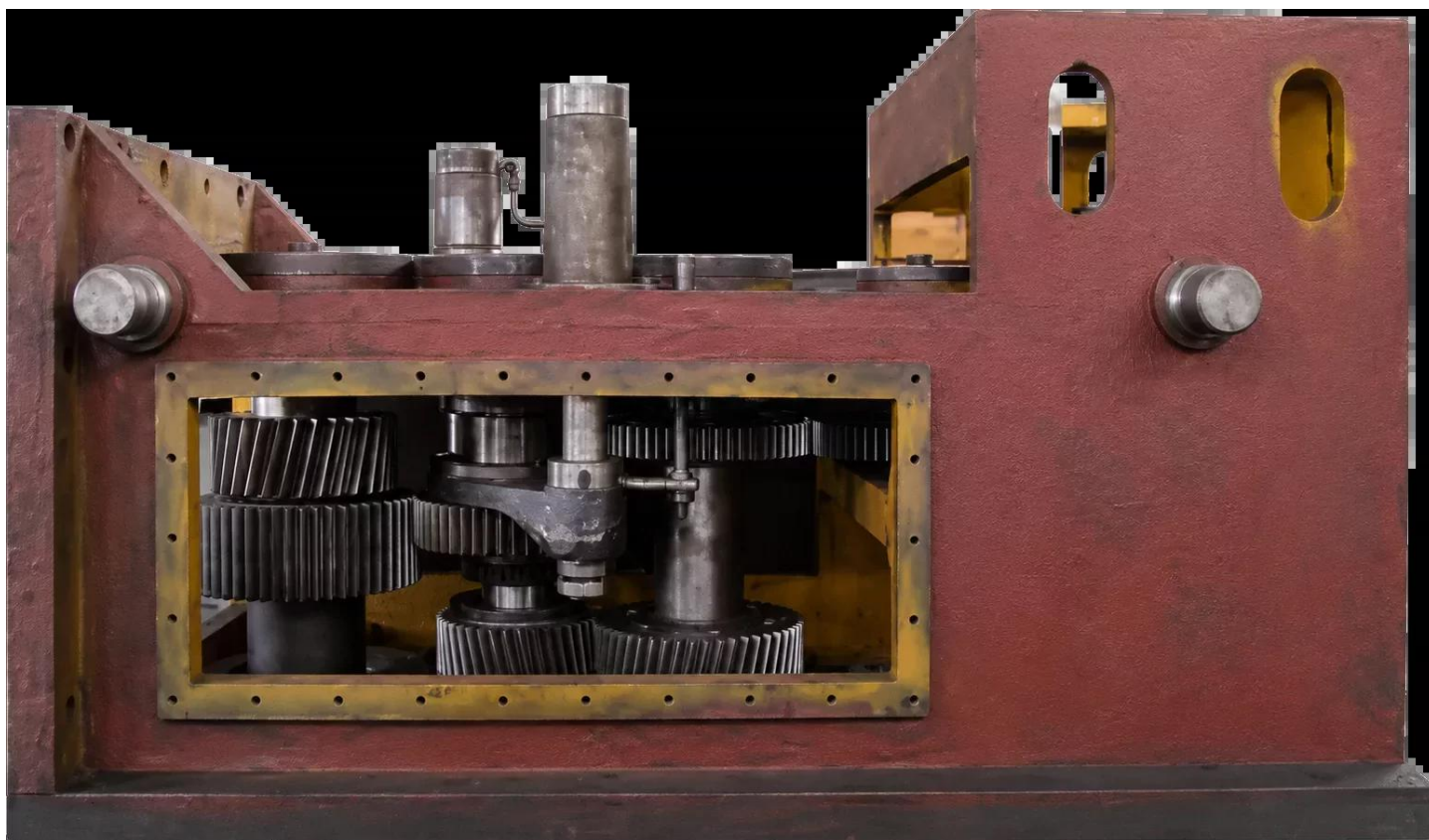
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Main Machine View



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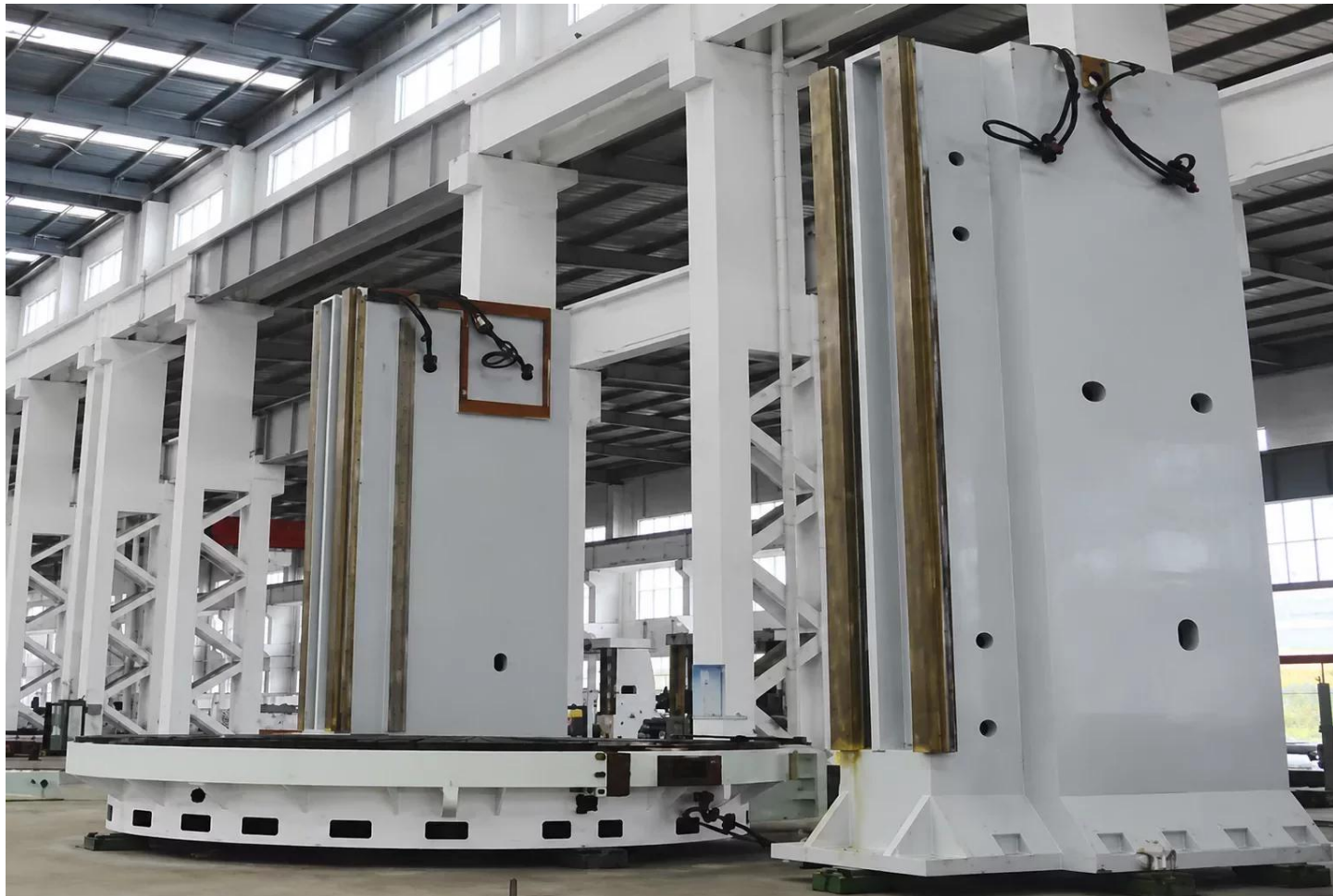


Gearbox



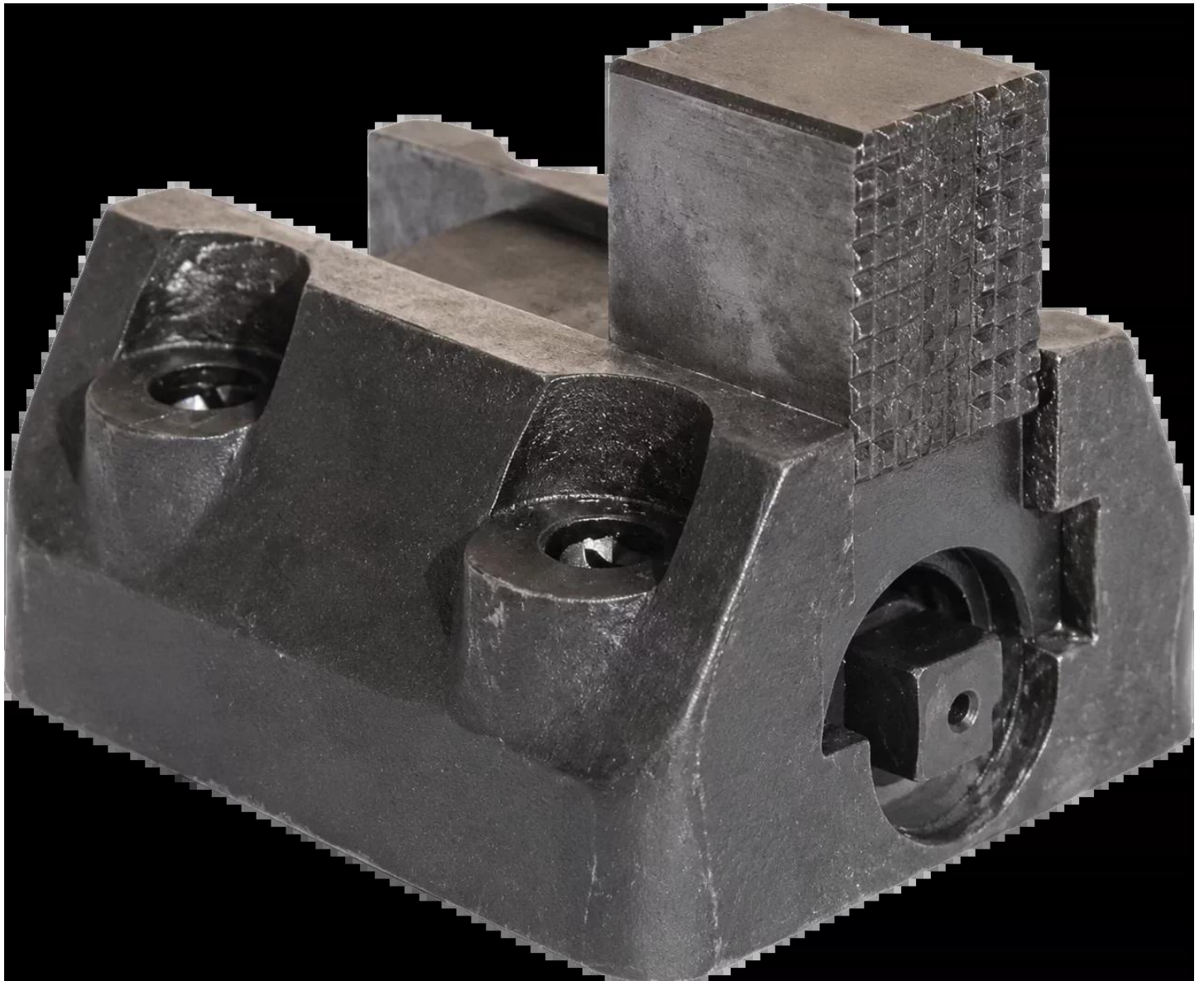
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Working Table



Symmetrical Construction
Standard Equipment

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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



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DRO

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Oil Cooler



Chip Conveyor

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Milling Head

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Grinding Head
Industrial Applications



Heavy Industry

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Mining



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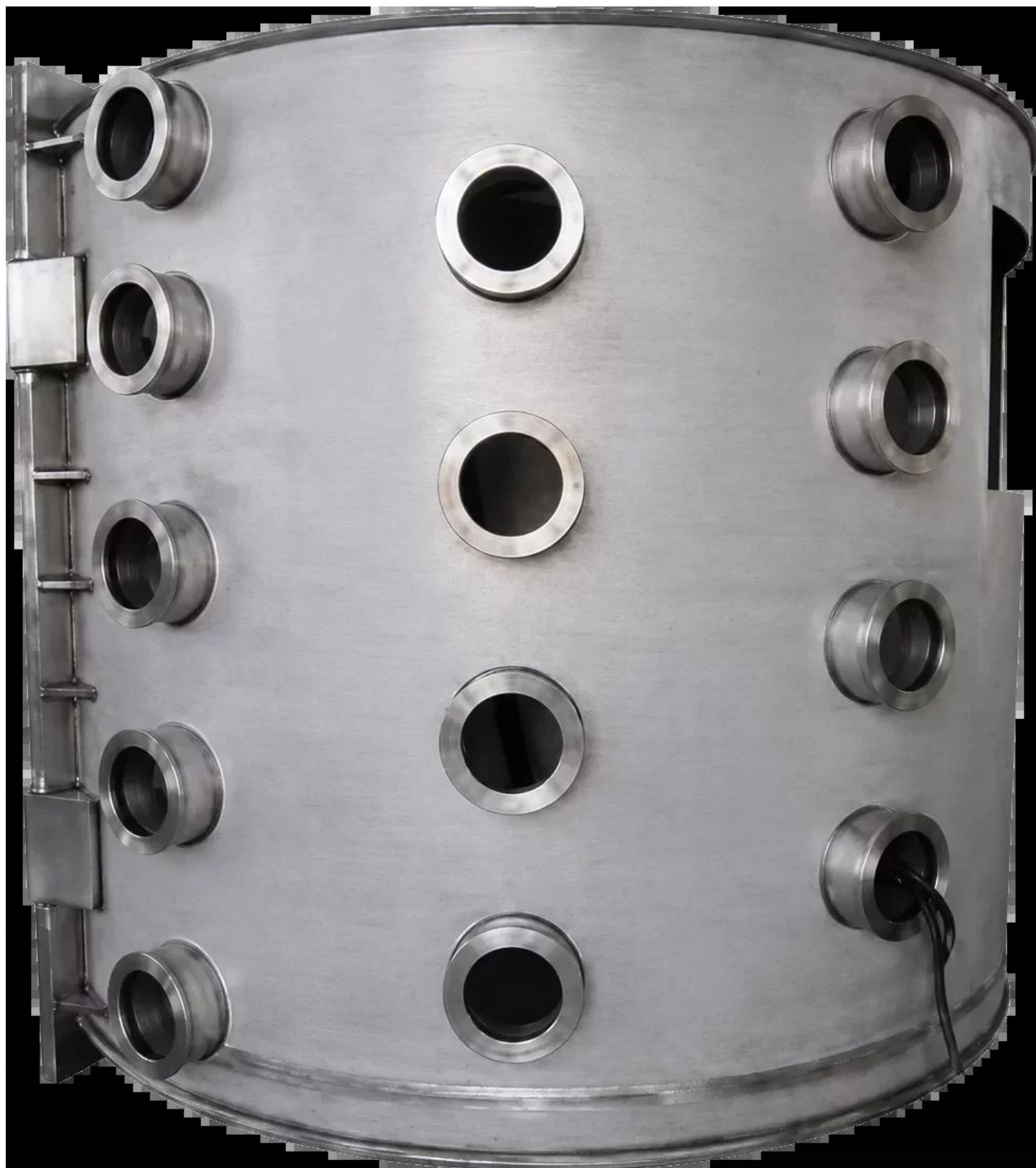
Power Generation

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Structural Fabrication

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Machining Large Components
Technical Features



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Key Features of the DTL-31H

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

40Cr alloy-steel gears and forged shafts in the gearbox.

Two working heads – one for finish turning and the other for rough machining.

Hydrostatic bearings enabling machining of heavy workpieces.

4-jaw chuck with auxiliary T-slots for secure workpiece clamping.

Ram head with a swivel range from -30° to +30° for machining tapered surfaces.

Wear-resistant guideways with a ZnAl10-5 alloy lining for smooth movement.

PLC control ensuring safe and reliable machine operation.

Applications

Where is the DTL-31H lathe suitable?

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

Heavy industry – machining large housings, rings, discs and machine components.

Power generation – turbine elements, flanges, plant components and generator subassemblies.

Mining – large machine parts, housings, wheels, rollers and drive components.

Structural fabrication – welded components, rings, plates and workpieces requiring vertical turning.

DTL-31H Specifications



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Technical Specifications for the DTL-31H Model

Model **DTL-31H**

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

Version **Double-column, Manual / DRO**

Maximum Turning Diameter **3000 mm**

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

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

Table Load Capacity **30 tonnes**

Main Motor Power **55 kW**

Number of Working Heads **2 heads — for rough and finish machining**

Head Swivel Range **-30° to +30°**

Workholding Chuck **4-jaw chuck with auxiliary T-slots**

Gearbox **40Cr alloy-steel gears and forged shafts**

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

Guideways **Wear-resistant ZnAl10-5 alloy lining**

Control **PLC; Manual / DRO version available**

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

Optional Equipment **DRO, oil cooler, chip conveyor, milling head, grinding head**

Applications **Heavy industry, mining, power generation, structural fabrication, machining large components**