



KARTA PRODUKTOWA

DTL-80M Vertical Turning Lathe 8000 mm





Main image of the DTL-80M model

DTL-80M CNC double-column vertical turning and milling machining centre, 8000 mm

DTL-80M Vertical Turning Lathe

Double-column CNC vertical turning lathe for the heaviest machining of workpieces up to 8000 mm

DTL-80M is a CNC vertical turning lathe designed for precise and stable machining of very large and heavy industrial workpieces. The machine enables machining of components with a maximum turning diameter of **8000 mm** and a table load capacity of **120 tonnes**, optionally up to **200 or 300 tonnes**.

The model was designed for the most demanding industrial applications. A rigid box-type construction with reinforced ribs, precision spindle bearings, a drive with accurate C-axis positioning and an optional automatic tool changer (ATC) enable efficient multi-task machining of very large components.



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8000

Max. Turning Diameter

8000 mm

6300

Table Diameter

6300 mm, optional 7100 mm

3000

Max. Workpiece Height

3000 mm, optional 4000 / 5000 mm

120T

Table Load Capacity

120 t, optional 200 / 300 t

DTL-80M – heavy-duty CNC vertical turning lathe for the largest industrial workpieces.

The model offers a maximum turning diameter of 8000 mm, a 6300 mm table with an optional 7100 mm version, a table load capacity of 120 t with an optional 200 or 300 t version, a workpiece height of 3000 mm with an optional 4000 or 5000 mm version, a 90 kW main motor with an optional 110 kW version and equipment for multi-task machining.

Photo Gallery

Images and Key Components of the DTL-80M Model

5 images showing the machine's key components and functions



Automatic ATC Tool Changer



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Turning on the Lathe



Drilling and Tapping on the Lathe

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Tool Setter



Workpiece Probe
Technical Features

Key Features of the DTL-80M

Rigid box-type construction with reinforced ribs ensures very high rigidity and stability during the heaviest machining operations.

Preloaded double-row roller bearing ensures precise spindle rotation and high turning accuracy.



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Powered spindle with an ISO taper enables milling, drilling, tapping, grinding and other multi-task operations.

Precision gearbox and drive mechanism are used for accurate C-axis indexing.

Optional automatic ATC tool changer improves multi-tool machining of large workpieces.

Very high table load capacity enables stable machining of heavy components weighing up to 120 tonnes, optionally up to 200 or 300 tonnes.

Applications

Where is the DTL-80M lathe suitable?

The DTL-80M is designed for machining the largest and heaviest industrial workpieces, such as oversized rings, flanges, housings, power-generation components, heavy machinery parts, bearing components and workpieces requiring turning, drilling, milling or tapping on a single machine.

Heavy industry – machining very large housings, castings and machine components.

Power generation industry – turning and machining turbine components, rings and oversized technical components.

Flange and ring production – stable machining of workpieces with very large diameters and high mass.

Large-scale machining facilities – for precision machining of components up to 8000 mm in diameter.

DTL-80M Specifications

Technical Specifications of the DTL-80M Model

Model **DTL-80M**

Machine Type **CNC Vertical Turning Lathe**

Configuration **Double-column vertical turning lathe for turning and multi-task machining**

Max. Turning Diameter **8000 mm**

Table Diameter **6300 mm, optional 7100 mm**

Max. Workpiece Height **3000 mm, optional 4000 mm or 5000 mm**

Table Load Capacity **120 t, optional 200 t or 300 t**



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Main Motor Power **90 kW, optional 110 kW**

Tool Spindle **Powered spindle with ISO taper**

Available Operations **Turning, milling, drilling, tapping, grinding**

Gearbox **Precision gearbox and drive mechanism for C-axis indexing**

ATC **Optional automatic tool changer for multi-tool machining**