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DTL-31M Vertical Turning Lathe 3150 mm





Main image of the DTL-31M model

DTL-31M CNC double-column vertical turning and milling machining centre, 3150 mm

DTL-31M Vertical Turning Lathe

Double-column CNC vertical turning lathe for heavy machining of workpieces up to 3150 mm

DTL-31M is a CNC vertical turning lathe designed for precise and stable machining of large industrial workpieces. The machine enables machining of components with a maximum turning diameter of **3150 mm** and a table load capacity of **20 tonnes**.

The model was designed for heavy industrial duty. 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.



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3150

Max. Turning Diameter

3150 mm

2250

Table Diameter

2250 mm, optional 2830 mm

1600

Max. Workpiece Height

1600 mm, optional 2200 / 2500 mm

20T

Table Load Capacity

20 t

DTL-31M – heavy-duty CNC vertical turning lathe for large industrial workpieces.

The model offers a maximum turning diameter of 3150 mm, a 2250 mm table with an optional 2830 mm version, a 20 t table load capacity, a workpiece height of 1600 mm with an optional 2200 or 2500 mm version, a 55 kW main motor and equipment for multi-task machining.

Photo Gallery

Images and Key Components of the DTL-31M Model

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-31M

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

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.

High table load capacity enables stable machining of heavy components weighing up to 20 tonnes.

Applications

Where is the DTL-31M lathe suitable?

The DTL-31M is designed for machining large and heavy industrial workpieces, such as rings, flanges, housings, power-generation components, machine parts, bearing components and workpieces requiring turning, drilling, milling or tapping on a single machine.

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

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

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

Large-scale machining facilities – for precision machining of components up to 3150 mm in diameter.

DTL-31M Specifications

Technical Specifications of the DTL-31M Model

Model **DTL-31M**

Machine Type **CNC Vertical Turning Lathe**

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

Max. Turning Diameter **3150 mm**

Table Diameter **2250 mm, optional 2830 mm**

Max. Workpiece Height **1600 mm, optional 2200 mm or 2500 mm**

Table Load Capacity **20 t**

Main Motor Power **55 kW**



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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**