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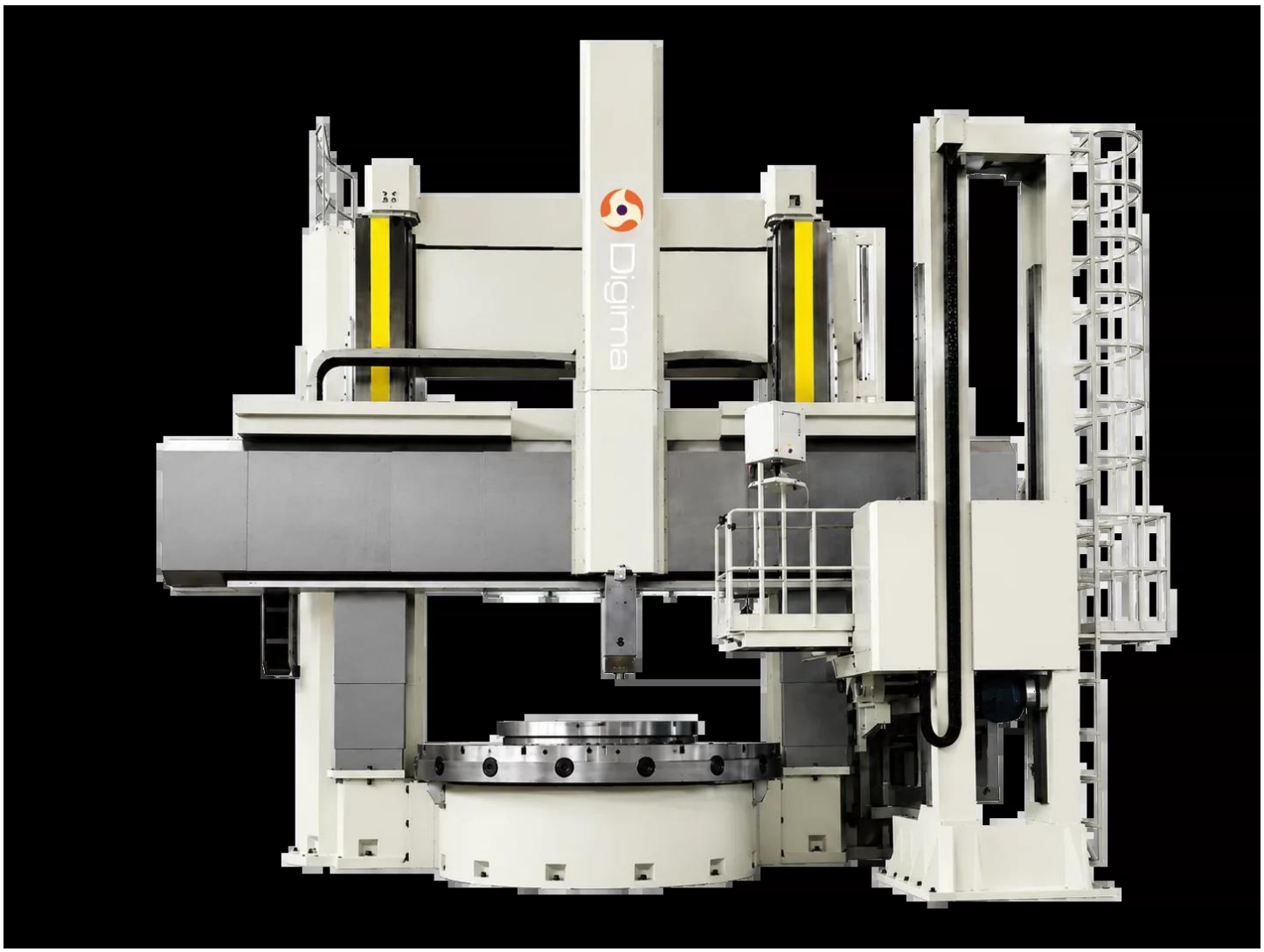
DTL-63M Vertical Turning Lathe 6300 mm



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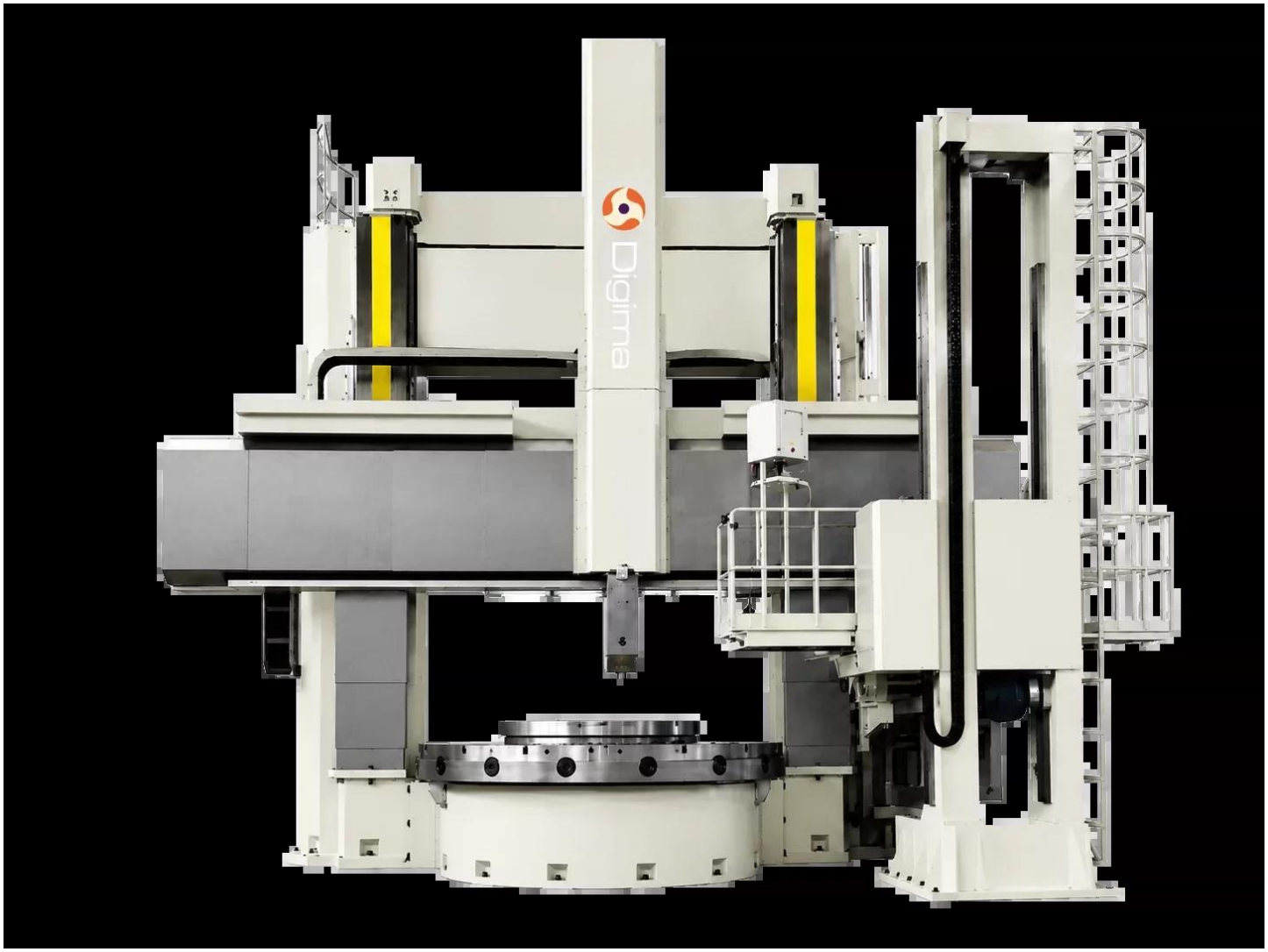

Main image of the DTL-63M model
DTL-63M CNC double-column vertical turning and milling machining centre, 6300 mm

DTL-63M Vertical Turning Lathe

Double-column CNC vertical turning lathe for heavy machining of workpieces up to 6300 mm

DTL-63M is a CNC vertical turning lathe designed for precise and stable machining of very large industrial workpieces. The machine enables machining of components with a maximum turning diameter of **6300 mm** and a table load capacity of **50 tonnes**, optionally up to **70 or 120 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.

6300
Max. Turning Diameter
6300 mm
4500
Table Diameter
4500 mm, optional 5000 / 5700 mm
3000
Max. Workpiece Height
3000 mm, optional 4000 / 4500 mm
50T
Table Load Capacity
50 t, optional 70 / 120 t
DTL-63M — heavy-duty CNC vertical turning lathe for large-scale industrial workpieces.

The model offers a maximum turning diameter of 6300 mm, a 4500 mm table with an optional 5000 or 5700 mm version, a table load capacity of 50 t with an optional 70 or 120 t version, a workpiece height of 3000 mm with an optional 4000 or 4500 mm version, a 75 kW main motor with an optional 90 kW version and equipment for multi-task machining.

Photo Gallery

Images and Key Components of the DTL-63M Model

5 images showing the machine’s key components and functions

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Automatic ATC Tool Changer

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Turning on the Lathe

Drilling and Tapping on the Lathe

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Tool Setter

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Workpiece Probe
Technical Features

Key Features of the DTL-63M

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 50 tonnes, optionally up to 70 or 120 tonnes.

Applications

Where is the DTL-63M lathe suitable?

The DTL-63M is designed for machining very 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 6300 mm in diameter.

DTL-63M Specifications

Technical Specifications of the DTL-63M Model

Model **DTL-63M**
Machine Type **CNC Vertical Turning Lathe**
Configuration **Double-column vertical turning lathe for turning and multi-task machining**
Max. Turning Diameter **6300 mm**
Table Diameter **4500 mm, optional 5000 mm or 5700 mm**
Max. Workpiece Height **3000 mm, optional 4000 mm or 4500 mm**
Table Load Capacity **50 t, optional 70 t or 120 t**

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Main Motor Power **75 kW, optional 90 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**