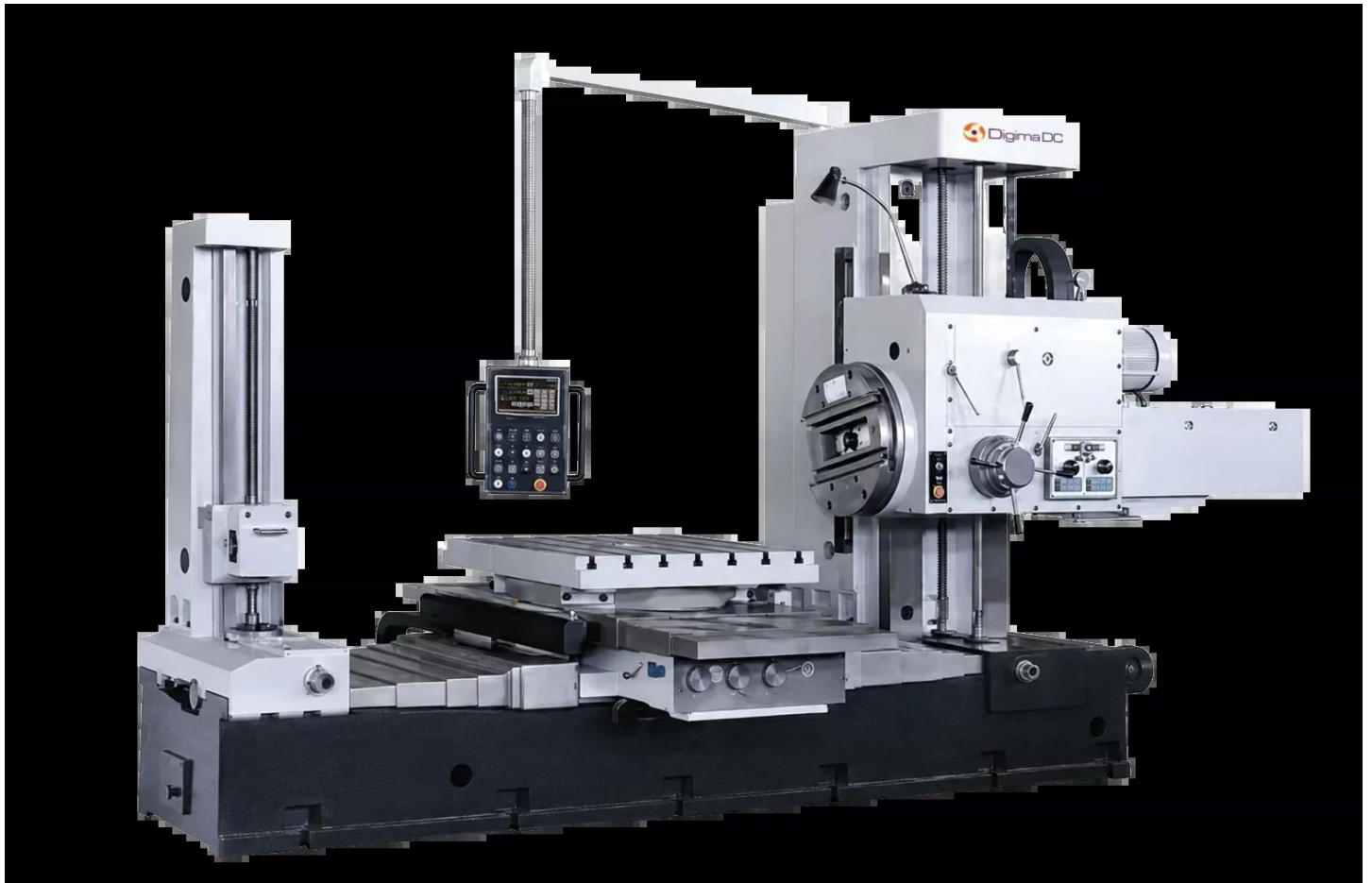




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DBM-110 Horizontal Boring Machine 110 mm Spindle 960 × 1100 mm





Main image of the DBM-110 model – DRO horizontal boring machine
Horizontal Boring Machine

DBM-110 Horizontal Boring Machine

DRO Horizontal Boring Machine with a 110 mm Spindle

DBM-110 belongs to the DBM series of universal conventional horizontal boring and milling machines, designed for drilling, counterboring, boring, reaming, face milling, tapping and milling.

The machine is suitable for machining large housings, plates, structural components and workpieces requiring precise hole machining. Its robust cast-iron construction, hardened and ground guideways, DRO positioning system and **960 × 1100 mm** worktable ensure stability, precision and convenient operation in metalworking facilities, maintenance departments, machine manufacturing and component refurbishment.

110
Spindle Diameter
110 mm
960



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Table Dimensions

960 × 1100 mm

2.5T

Table Load Capacity

2500 kg

11

Main Motor Power

11 kW

DBM-110 – robust horizontal boring machine for machining heavy workpieces.

The model features a 110 mm spindle with an ISO50 taper, maximum spindle torque of 1225 N·m, spindle thrust of 12250 N, a 960 × 1100 mm table, table load capacity of 2500 kg, X/Y/Z-axis travel of 900 / 900 / 1400 mm, W-axis spindle travel of 600 mm, U-axis facing-head travel of 180 mm and an 11 kW main motor.

Photo Gallery

Images and Key Components of the DBM-110 Model

Images Presenting the Key Components and Functions of the Boring Machine

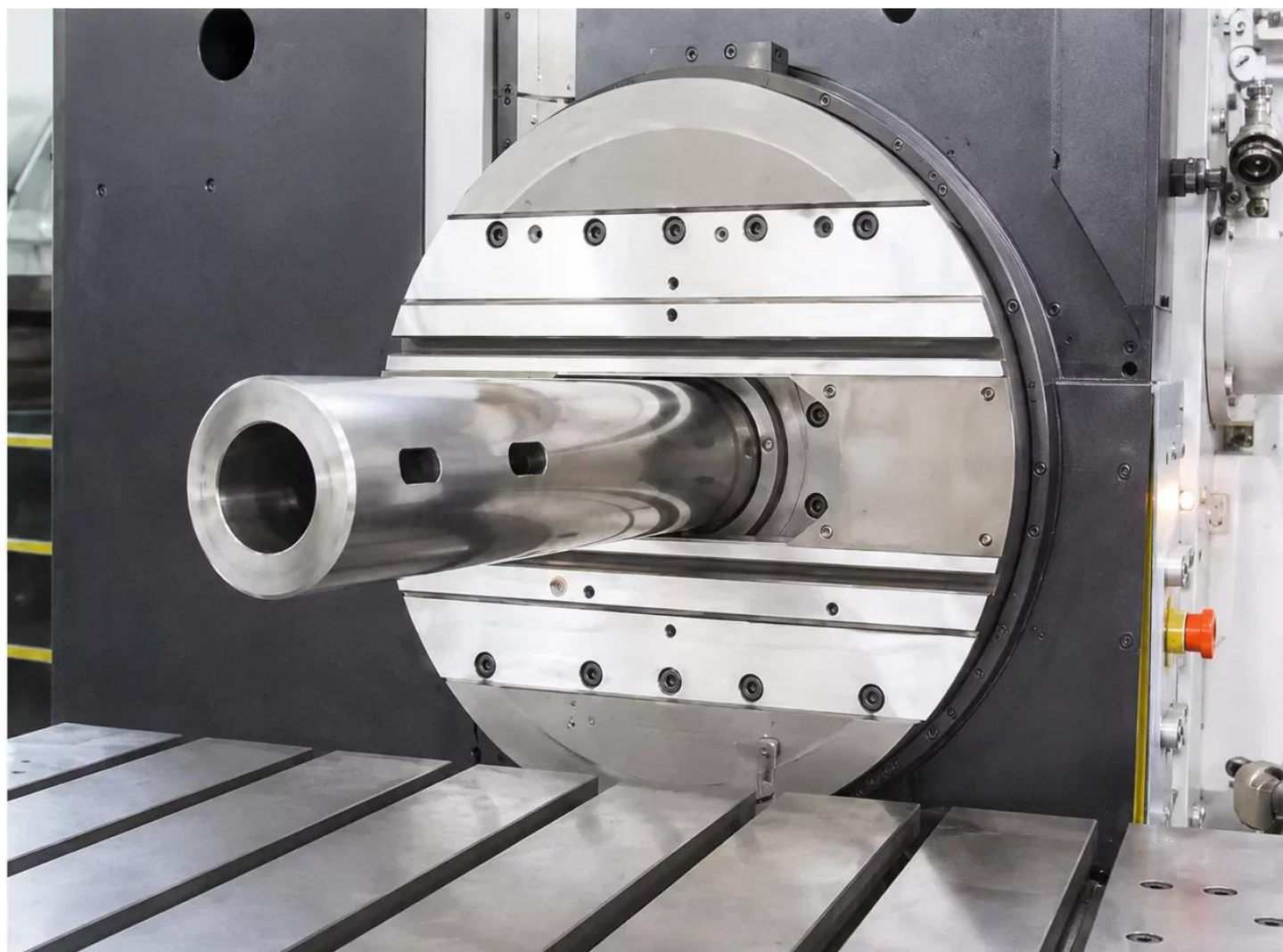


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DRO

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Boring Spindle

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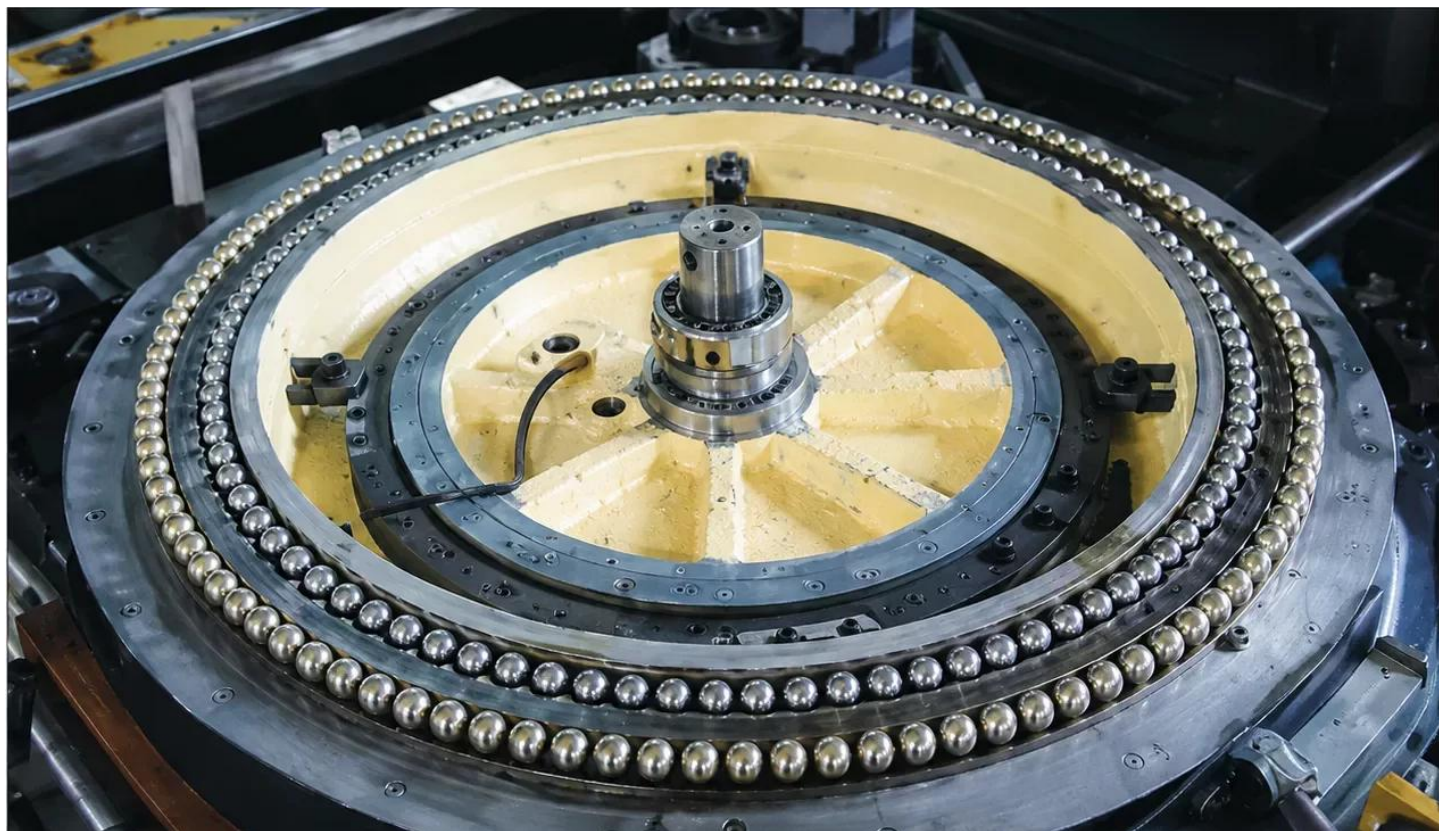


Table Bearings



Gearboxes and Gears



Tailstock
Machine Construction

Rigid Construction and Convenient Operation

The machine consists of a bed, front column, headstock, transverse and longitudinal saddles, worktable, rear column and a counterweight system with a pulley. The headstock moves vertically along the column guideways, while the worktable can move transversely and longitudinally along the bed and rotate for workpiece setup.



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The main machine components, such as the bed, front column and longitudinal saddle guideways, are manufactured using electrical-contact surface hardening with self-cooling. This solution increases guideway rigidity and extends machine service life.

Central hydraulic control with preselection is simple and convenient to operate. When changing speeds and feeds, indicator lights inform the operator about the progress of the process. The machine electrical system uses a programmable PLC controller, increasing operating reliability. The machine can also be configured to meet specific customer requirements and different machining standards.

Technical Features

Key Features of the DBM-110

Universal application – drilling, counterboring, boring, reaming, face milling, tapping and milling.

Rigid cast-iron construction ensures stability during machining of heavy and large workpieces.

Electrically controlled, hardened and ground guideways ensure smooth movement and stable axis operation.

Nitrided boring spindle increases durability and enables long machine service life.

Position locking at 0°, 90°, 180° and 270° enables precise table positioning during machining.

Programmable PLC controller supports reliable machine control and monitoring.

DRO system facilitates axis position readout and improves operator convenience.

Configurable to customer requirements allows the machine to be adapted to different machining standards.

Equipment

Standard and Optional Equipment

Standard equipment – foundation wedges and screws, oil can, hand tools, operating manuals and basic components required for machine commissioning and operation.



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Optional equipment – clamping angle plate, change gears for threading, boring head / boring bar and other components selected for the specific machining process.

Applications

Wide Range of Applications for the DBM-110 Boring Machine

Thanks to its highly rigid and stable construction, extensive machining capabilities, high cutting performance and substantial table load capacity, the DBM-110 finds broad application in many industries.

Valve, pump and bearing industry – machining housings, seats, mounting holes and precision components.

Aerospace, automotive, wind power and oil industry – machining large structural and process components.

Hydro and steam turbine generators – preparation of holes, faces and mounting elements of large components.

Mining, railways and earthmoving machinery – refurbishment and production of heavy machine parts and structures.

Machinery industry – machining housings, frames, plates and large cast components.

Metalworking facilities – drilling, boring, reaming, tapping and face machining.

DBM-110 Specifications

Technical Specifications of the DBM-110 Model

Model **DBM-110**

Machine Type **DRO Horizontal Boring Machine**

Machining Operations **Drilling, counterboring, boring, reaming, face milling, tapping, milling**

Boring Spindle Diameter **110 mm**

Spindle Taper **ISO50**

Maximum Spindle Torque **1225 N·m**

Maximum Spindle Thrust **12250 N**

Number of Spindle Speed Steps **4**

Spindle Speed Range **8–1000 rpm**

Main Motor Power **11 kW**



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Facing Head Diameter **630 mm**

Facing Head Speed Range **4–200 rpm**

Number of Facing Head Speed Steps **18**

Worktable Dimensions **960 × 1100 mm**

Maximum Table Load **2500 kg**

X-Axis Travel **900 mm**

Y-Axis Travel **900 mm**

Z-Axis Travel **1400 mm**

W-Axis Travel / Spindle Travel **600 mm**

U-Axis Travel / Facing Head Travel **180 mm**

B-Axis / Worktable Rotation **360°**

Readout System **DRO**

Table Positioning **0°, 90°, 180° i 270°**

Auxiliary Control **PLC**

Machine Weight **13300 kg**

Standard Equipment **Foundation wedges and screws, oil can, hand tools, operating manuals**

Optional Equipment **Clamping angle plate, change gears for threading, boring head / boring bar**

Selected Components **DRO, boring spindle, table bearings, gearboxes, tailstock**