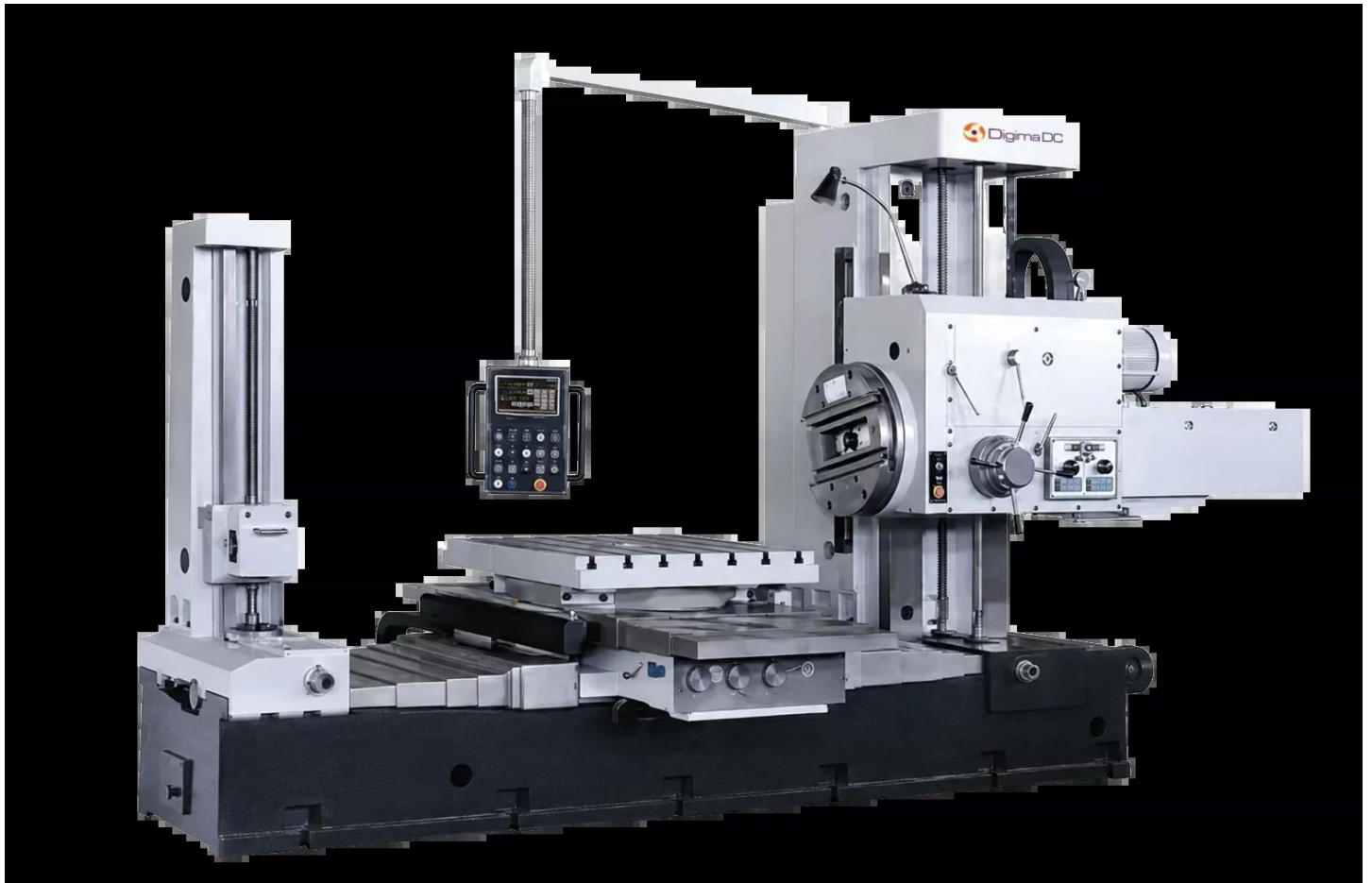




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DBM-110XL Horizontal Boring Machine 1100 × 1250 mm





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

DBM-110XL Horizontal Boring Machine

XL-Version DRO Horizontal Boring Machine with an Enlarged Table and Extended X-Axis Travel

DBM-110XL 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 **1100 × 1250 mm** worktable ensure stability, precision and convenient operation in metalworking facilities, maintenance departments, machine manufacturing and component refurbishment.

130
Spindle Diameter
130 mm
2000



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X-Axis Travel

2000 mm

8.5T

Table Load Capacity

8500 kg

11

Main Motor Power

11 kW

DBM-110XL – XL version with a larger table, high load capacity and 2000 mm X-axis travel.

The model features a 130 mm spindle with an ISO50 taper, maximum spindle torque of 3136 N·m, spindle thrust of 31360 N, an 1100 × 1250 mm table, table load capacity of 8500 kg, X/Y/Z-axis travel of 2000 / 1200 / 1400 mm, W-axis spindle travel of 900 mm, U-axis facing-head travel of 250 mm and an 11 kW main motor.

Photo Gallery

Images and Key Components of the DBM-110XL Model

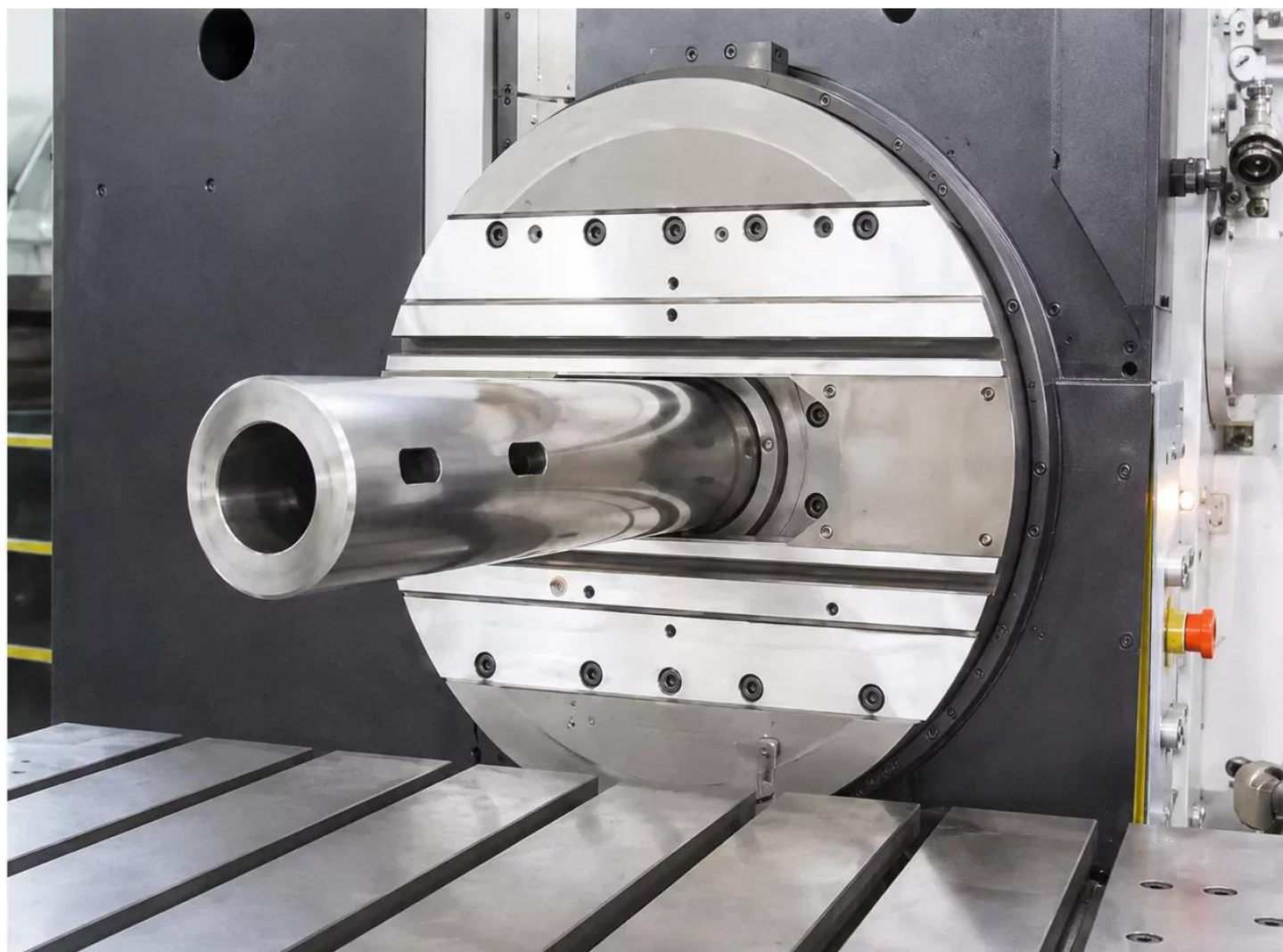
Images Presenting the Key Components and Functions of the Boring Machine



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DRO



Boring Spindle

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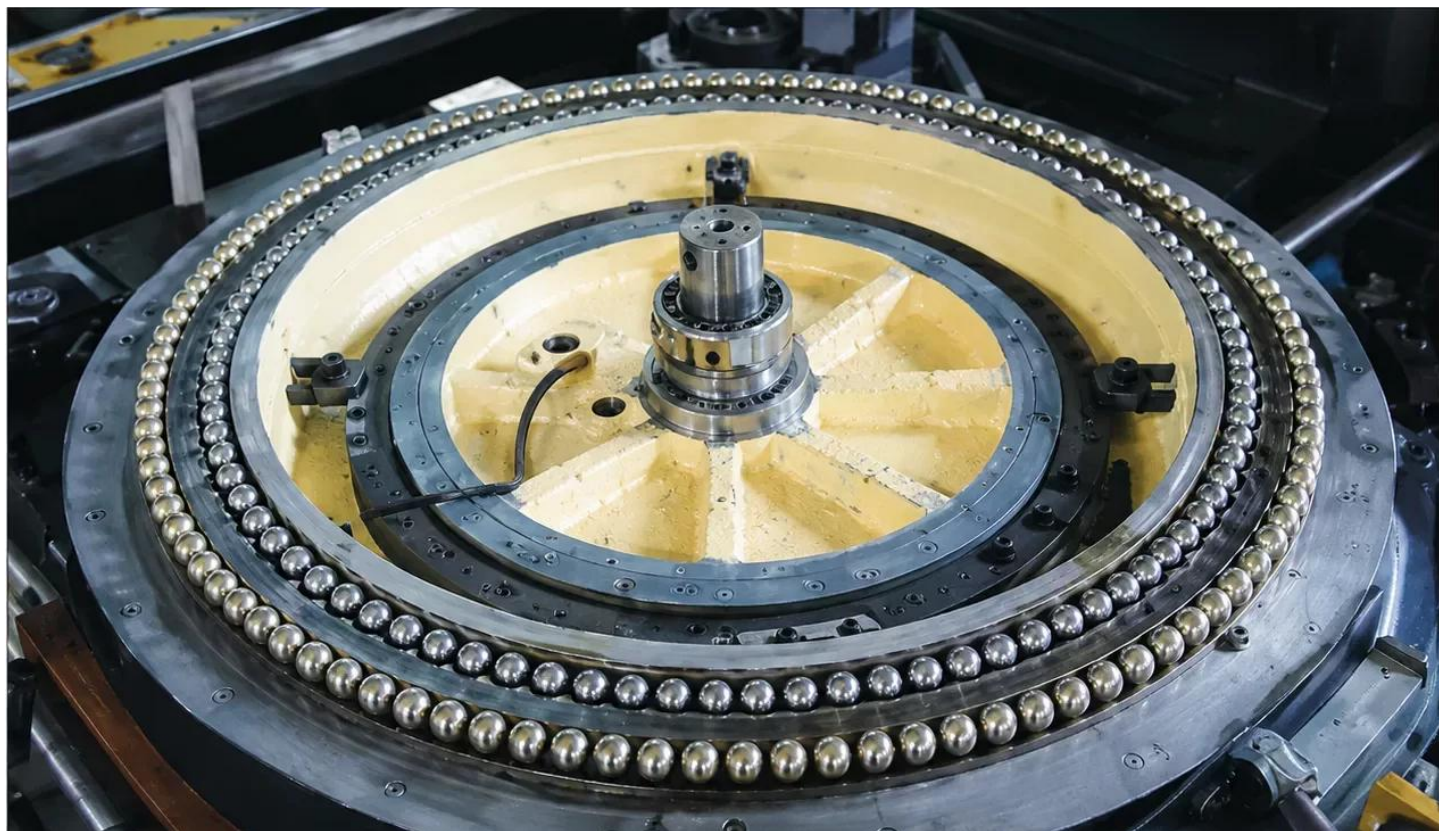


Table Bearings



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-110XL

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

2000 mm X-axis travel – the extended working range allows machining of longer components and large housings.

Higher table load capacity – a load capacity of up to 8500 kg allows machining heavier housings, plates and cast components.

Extended axis travel – X/Y/Z travel of 2000 / 1200 / 1400 mm increases the capacity for machining large workpieces.

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

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

Programmable PLC controller supports reliable machine control and monitoring.

DRO system facilitates axis position readout and improves operator convenience.

Equipment

Standard and Optional Equipment

Standard equipment – foundation wedges and screws, oil can, hand tools, operating manuals and basic



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components required for machine commissioning and operation.

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-110XL Boring Machine

Thanks to its highly rigid and stable construction, extensive machining capabilities, high cutting performance, larger table, high load capacity and extended travel ranges, the DBM-110XL 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-110XL Specifications

Technical Specifications of the DBM-110XL Model

Model **DBM-110XL**

Machine Type **DRO Horizontal Boring Machine**

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

Boring Spindle Diameter **130 mm**

Spindle Taper **ISO50**

Maximum Spindle Torque **3136 N·m**



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Maximum Spindle Thrust **31360 N**

Number of Spindle Speed Steps **4**

Spindle Speed Range **4–800 rpm**

Main Motor Power **11 kW**

Facing Head Diameter **750 mm**

Facing Head Speed Range **2.5–125 rpm**

Number of Facing Head Speed Steps **18**

Worktable Dimensions **1100 × 1250 mm**

Maximum Table Load **8500 kg**

X-Axis Travel **2000 mm**

Y-Axis Travel **1200 mm**

Z-Axis Travel **1400 mm**

W-Axis Travel / Spindle Travel **900 mm**

U-Axis Travel / Facing Head Travel **250 mm**

B-Axis / Worktable Rotation **360°**

Readout System **DRO**

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

Auxiliary Control **PLC**

Machine Weight **20000 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**