

Conventional Milling and Boring Machines

BO 110



SKU : 301499

The BO series of conventional boring-milling machines is designed for horizontal, multi-sided drilling and milling of workpiece weights of up to 2.5 tons. The stand is fixed, while the table can move and rotate 360°. The drill head moves on the column and the spindle has a long stroke on the W-axis. Conventional boring mills also have a facing slide with a long stroke, which extends the application to include boring. High drive power and automatic feeds on all axes with rapid traverse enable efficient machining and short non-productive times.

- Large work area with W-axis and facing slide
- Thread cutting unit
- Rotatable clamping table with sighting device for 4 positions
- Telescoping stainless steel covers on all guides

TECHNICAL SPECS

WORKING AREA

Drilling capacity	50 mm
Table set up area	1100 mm x 960 mm
Table load capacity	2500 kg
Table rotation range	4 x 90°
Spindle axis-to-table surface distance	0 mm - 900 mm
Rotation speed of rotary table	1 1/min

TRAVELS

Travel X-axis	900 mm
Travel Y-axis	900 mm
Travel Z-axis	900 mm
Travel W-axis	600 mm
Facing slide travel	180 mm

HEADSTOCK

Speed range	8 1/min - 1000 1/min
Spindle diameter	110 mm
Spindle torque (max.)	1225 Nm
Spindle mount	SK 50
Facing slide speed	4 1/min - 200 1/min
Feed force, axial (max.)	12.25 kN
Facing slide torque (max.)	1960 Nm

RAPID FEED

Rapid feed X-axis	2500 mm/min
Rapid feed Y-axis	2500 mm/min
Rapid feed W-axis	2500 mm/min

FEED

Feed X-axis	0.01 mm/R - 6 mm/R
Feed Y-axis	0.01 mm/R - 6 mm/R
Feed Z-axis	0.01 mm/R - 6 mm/R
Feed W-axis	0.01 mm/R - 6 mm/R
Facing slide feed	0.08 mm/min - 12 mm/min

ACCURACIES

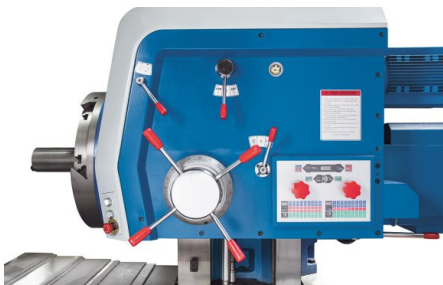
Read-out accuracy (optic)	0.01 mm
Counter-bore accuracy	H7 Ra-1,6 µm

DRIVE CAPACITY

Motor rating main drive	7.5 kW
Motor rating hydraulic pump	0.37 kW

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	4.88 m x 2.45 m x 2.75 m
Weight	11500 kg



PRODUCT DETAILS

- Rigid, hardened and precision-ground square guides ensure many years of accurate operation
- Mechanical functions that cannot be run simultaneously are provided with interlocks
- Headstock and feed gears are equipped with an overload clutch
- Lever-operated shift gears for positioning of the wheels in the desired position
- Faceplate and drill spindle with different task-specific speed ranges according to the various functions
- An optical sighting device enables fast positioning with maximum precision at 90°, 180°, 270° and 360°
- Telescoping steel cover protects the guides from chips and dirt
- BO 110 incl. tailstock (optional on BO 130)

3-axis position indicator

- More accuracy
- Lower error rate
- Increased productivity
- Resulting in valuable time savings
- For increased productivity
- Easy to read display
- Operator-specific features
- Convenient keyboard layout
- Resolution: 0.01/ 0.005 mm
- Default coordinates
- Axis position is maintained when display is turned off
- Hole circle pattern calculation
- Calculator function
- Storage for 10 tools
- Radius / diameter toggle
- Mm/inch conversion
- Easy expansion and maintenance-free operation

STANDARD EQUIPMENT

3-axis position indicator X.Pos 3.2
 Wedge strip
 Central lubrication
 Work lamp
 Foundation bolts
 Operating tools
 Operator instructions

OPTIONAL EQUIPMENT

- Drilling tool holder for faceplate, SKU : 252278
- Milling cutter holder for faceplate, SKU : 252279
- Boring head, SKU : 252280
- Position indicator at the rotary table, SKU : 252720