

Conventional Milling and Boring Machines

BO 130



SKU : 399022

The BO series of conventional boring and milling machines with a fixed column is designed for horizontal multi-sided drilling and milling of workpiece weights of up to 10 tons. The movable table can rotate 360°. The drill head moves on the column and the spindle has a long stroke on the W-axis. Efficient machining and short non-productive times result from high drive power and automatic feeds on all axes with rapid traverses. In addition, these conventional boring mills have a facing slide with a long stroke.

- 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	60 mm
Table set up area	1600 mm x 1800 mm
Table load capacity	10000 kg
Table rotation range	4 x 90°
Spindle axis-to-table surface distance	0 mm - 1800 mm
Rotation speed of rotary table	1.2 1/min

TRAVELS

Travel X	2000 mm
Travel Y	1800 mm
Travel Z	1500 mm
Travel W	900 mm
Facing slide travel	250 mm

HEADSTOCK

Speed range	4 1/min - 800 1/min
Spindle diameter	130 mm
Spindle torque (max.)	3136 Nm
Spindle mount	SK 50
Facing slide speed	2.5 1/min - 125 1/min
Feed force, axial (max.)	31.36 kN
Facing slide torque (max.)	4900 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

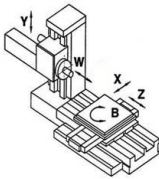
Read-out accuracy (optic)	0.005 mm
Counter-bore accuracy	H7 Ra-1,6 µm

DRIVE CAPACITY

Motor rating main drive	15 kW
Motor rating servo drive	5.5 kW
Motor rating hydraulic pump	0.37 kW

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	7.03 m x 4.66 m x 3.8 m
Weight	29300 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

- Boring tool holder for facing plate for BO 130, SKU : 250606
- Milling tool holder for facing plate for BO 130, SKU : 250607
- Boring head for BO 130, SKU : 250609
- Option B axis DRO for BO 130 - 399022, SKU : 252721
- Tailstock, SKU : 254161



KNUTH on YouTube

Information to the point

On our YouTube channel you can find videos for nearly all machines from our program. We show the machines from current deliveries and you get an impression of the handling, the processing quality and the machining performance.

**Are you interested in a machine for which you cannot find a current video?
Please feel free to contact us!**