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	2.36 in
Table set up area	63 in x 71 in
Table load capacity	22000 lbs
Table rotation range	4 x 90°
Spindle axis-to-table surface distance	0 in - 70.87 in
Rotation speed of rotary table	1.2 rpm

TRAVELS

Travel X	78.7 in
Travel Y	71 in
Travel Z	59 in
Travel W	35 in
Facing slide travel	10 in

HEADSTOCK

Speed range	4 rpm - 800 rpm
Spindle diameter	5 in
Spindle torque (max.)	2313 ft.lb.
Spindle mount	Taper 50
Facing slide speed	2.5 rpm - 125 rpm
Feed force, axial (max.)	31.36 kN
Facing slide torque (max.)	3614.04 ft.lb.

RAPID FEED

Rapid feed X-axis	98.43 in/min
Rapid feed Y-axis	98.43 in/min
Rapid feed W-axis	98 in/min

FEED

Feed X-axis	0.00039 in/R - 0.23622 in/R
Feed Y-axis	0.00039 in/R - 0.23622 in/R
Feed Z-axis	0.00039 in/R - 0.23622 in/R
Feed W-axis	0.00039 in/R - 0.23622 in/R
Facing slide feed	0.003 in/min - 0.472 in/min

ACCURACIES

Read-out accuracy (optic)	0.0002 in
Counter-bore accuracy	H7 Ra-16 µm

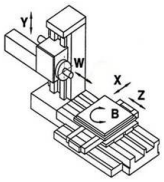
DRIVE CAPACITY

Motor rating main drive	20.1 Hp
Motor rating servo drive	7.4 Hp
Motor rating hydraulic pump	0.5 Hp

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	277 in x 184 in x 150 in
Weight	64460 lbs

© 2024 KNUTH Werkzeugmaschinen GmbH. All rights reserved
Published on: 09/3/2024



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: 0.0004 / 0.0002"
- 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
Alignment wedges
Central lubrication
Work lamp
Foundation bolts
Operating tools
Operator instructions

OPTIONAL EQUIPMENT

- Drilling tool holder for faceplate for BO 130, SKU : 250606
- Milling cutter holder for faceplate for BO 130, SKU : 250607
- Boring head for BO 130, SKU : 250609
- Optional position indicator at rotary table (angle indicator) for part no. 399022, SKU : 252721
- Back Collum for BO 130, SKU : 254161

© 2024 KNUTH Werkzeugmaschinen GmbH. All rights reserved
Published on: 09/3/2024