CNC Milling and Boring Machines
BO T 130 L CNC

SKU : 100083

The machines of the BO 130 CNC series are large milling and boring mills that are designed for heavy-duty machining of large and heavy workpieces. The powerful Siemens 828D CNC control and the rotary table for multi-sided machining of workpieces in one clamping offer solutions for a wider range of milling and drilling work.

- Increased table support in X-axis
- Powerful main motor with high torque
- CNC rotary table with 1° steps indexing
- Siemens 828D control for advanced machining

TECHNICAL SPECS

WORKING AREA

Drilling capacity	1.97 in
Counterbore diameter (max.)	10 in
Table set up area	53 in x 39 in
Table load capacity	11000 lbs
Spindle center-to-table distance	0 in - 47 in
Number of T-slots	7 positions
T-slots, width	0.9 in
T-slots, spacing	4.9 in
Table indexing	1 deg

TRAVELS

Travel X-axis	63 in
Travel Y-axis	47 in
Travel Z-axis	47 in
Travel W-axis	22 in

HEADSTOCK

Speed range	12 rpm - 1500 rpm
Spindle diameter	5 in
Spindle torque (max.)	1106 ft.lb.
Spindle mount	BT 50 JIS (MAS 403)

RAPID FEED

Rapid feed X-axis	393.7 in/min
Rapid feed Y-axis	393.7 in/min
Rapid feed Z-axis	393.7 in/min
Rapid feed W-axis	197 in/min
Rapid feed B-axis	0.22 in/min

FEED

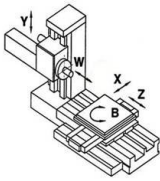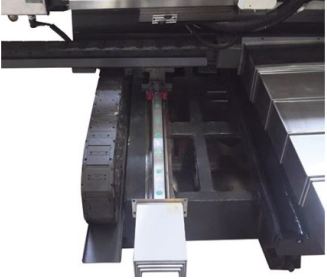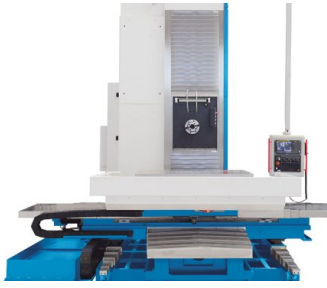|	
Feed X-axis	0 in/min - 79 in/min
Feed Y-axis	0 in/min - 79 in/min
Feed Z-axis	0 in/min - 79 in/min
Feed W-axis	0 in/min - 79 in/min

ACCURACIES

Positioning accuracy X-axis	0.00157 in
Positioning accuracy Y-axis	0.00157 in
Positioning accuracy W-axis	0.00157 in
Positioning accuracy Z-axis	0.00157 in
Repeatability X-axis	0.00079 in
Repeatability Y-axis	0.00079 in
Repeatability T-axis	0.00079 in
Repeatability W-axis	0.00079 in
Work table rotation accuracy	10 "
Work table repeatability	4 "

DRIVE CAPACITY

Motor rating main drive	24.8 Hp

MEASURES AND WEIGHTS

Overall dimensions (length x width x height)	237 in x 221 in x 142 in
Weight	40700 lbs

PRODUCT DETAILS

- The large, heavily ribbed box-column base is made of premium cast-iron to ensure stability and rigidity even under very heavy machining loads
- The massive machine frame features wide guideways and is designed for table loads up to 5.5 tons
- The CNC work table indexing in 1° steps allows flexible 4-sided complete machining of the workpiece without retooling
- The powerful motor ensures constant torque across the entire infinitely variable speedrange
- The Siemens 828D CNC-ensures high productivity and precision during production
- Excellent functional interaction between hardware and software ensures high dynamics, while motors and drive technologies provide the necessary precision
- Telescoping stainless steel covers protect the guides from chips and dirt
- Precision preloaded ball screws in all axes ensure high accuracy with low wear and maintenance
- Easy maintenance due to standard central lubrication system
- Available options for the machine include an additional 15.7" Y-axis travel, and a tool changer

CONTROLS & SOFTWARE

Siemens 828D control

SINUMERIK 828 D – The workhorse in the compact class of CNCs

Highlights

- Compact, robust, maintenance-free control panel-based CNC
- Comfortable program and parameter input via QWERTY keyboard
- Maximum machining precision
- Intelligent kinematic transformations for machining of cylindrical parts, and for angled workpiece levels
- SINUMERIK MDynamics with the new Advanced Surface feature: for perfect part surfaces and shortest machining times in mold making applications
- ProgramGUIDE: fastest machining time and maximum flexibility for large series productions
- Unique spectrum of technology cycles - from milling contours with residual material recognition to process measurements
- Animated Elements: unique operation and programming assistance with animated sequences
- Modern data transfer options via USB stick, CF card and network (Ethernet)

CNC hardware

- Control-panel based high-performance CNC Control
- Robust front control panel made of magnesium die-casting
- Integreated full-size QWERTY keyboard
- Maintenance-free design (no buffer battery required)

CNC performance data and functions

- Dynamic feed-forward control
- Linear, circular and helical interpolation
- Tapping without compensating chuck, plus thread cutting
- Toggle between inch and metric units
- FRAME concept for individual coordinate transformations, rotations, scaling and mirroring
- 100 adjustable zero offsets
- Synchronous actions and quick help function output

CNC technology cycles

- Large selection of drilling cycles
- Large selection of milling cycles for standard geometry
- Large selection of position patterns for drilling and milling operations
- High-speed settings for mold making applications
- Geometry calculator for free contour input
- Machining cycle for contour pockets / contour spigots with isolated contours

Graphic features

- Graphical online help system, similar to PC system
- Graphical CNC simulation with level display

CNC tool management

- Display of tool and magazine data on one screen
- Tool management with plain-text tool names
- Loading/unloading feature for easy magazine assignment
- Tool management with tool life monitoring
- 10.4" TFT color monitor

STANDARD EQUIPMENT

Siemens 828D control
Electronic hand-wheel
1° indexing work table
RS-232 interface
Work lamp
Central lubrication
Coolant system
Operator manual
Machine guard screen system

OPTIONAL EQUIPMENT

- Arm-type automatic tool changer, 24 tools, SKU : 253427
- Increased Y-axis travel by 16 inches, SKU : 253431