

BORING MACHINE "T" SYSTEM LAZZATI MOD.HB130T CNC HEIDENHAIN TNC 426



LAZZATI is pleased to present the HB series of universal boring machines.

Due to its special design, this machine can perform a wide variety of milling, boring, drilling, and threading operations. The HB series boring and milling machines meet the most modern requirements of mechanical processing thanks to their characteristics of power, versatility, reliability, rigidity, and ease of maintenance, achieved through the use of selected materials and mechanical and electrical safety devices.

LAZZATI boring machines can be adapted to different levels of automation, as they are designed to be equipped with:

- Automatic tool changer system
- Automatic workpiece changer system (pallet)
- Automatic accessory changer system
- Probes for checking achieved tolerances and for adaptive control of machining forces.

MAXIMUM MACHINING PRECISION DUE TO THE HIGH RIGIDITY OF THE SPINDLE

- Preloaded high-precision angular contact ball bearings
- Nitrided and super-finished boring spindle with minimal clearance coupling
- Front spindle support with minimal overhang relative to the workpiece
- Tool clamping with high-preload integral collets
- Automatic accessory gripping

SPINDLE THERMAL STABILIZATION

- Grease lubrication of the spindle bearings
- Internal spindle cooling to prevent thermal expansion during machining

MAXIMUM RIGIDITY OF THE STRUCTURES

Column in Mechanite cast iron, equipped with induction hardened and ground guides.

Welded steel bases with hardened and ground guides.

Hardened steel inserts for the sliding of the roller saddles.

ROTARY TABLES

CN-controlled rotary table, equipped with a work feed for contour machining and a rapid traverse for positioning.

AUTOMATIC ACCESSORY CHANGER

A station for the automatic changing of accessories on the head can be installed.

The following can be mounted automatically:

Milling heads

Tapping units

HIGH POSITIONING ACCURACY

Counter-guides in synthetic resin with a low friction coefficient.

Large diameter, pre-loaded double-nut ball screws.

Rigid and direct connection between the axis motor and the ball screw.

Positioning accuracy checked according to VDI/DGQ 3441 standard.

TECHNICAL CHARACTERISTICS

SPINDLE

• spindle diameter	mm.	130
• spindle nose	ISO	50
• collet Holder	mm.	221,44
• constant torque rotation speed	rpm	5-562
• rotation speed at constant power	rpm	562-2500

TRAVEL

• W-axis travel (spindle)	mm.	700
• Y-axis travel (head vertical)	mm.	2000
• X-axis travel (cross-table)	mm.	4000
• W1 axis travel (longitudinal column)	mm.	1500
• diameter x pitch ball screw Y/W axis	mm.	63x10
• diameter x pitch ball screw X-axis	mm.	80x20
• Z-axis ball screw diameter x pitch	mm.	40x05

ROTARY TABLE

• rotary table dimensions	mm.	1500x2000
• width of T slots	mm.	22
• max load permitted on the table	Kg.	10000

FEEDS

• X/Y/Z/W axis work feeds	mm/min	5-5000
• W-axis rapid feeds (spindle)	mm/min	7500
• rapid feeds X/Y/Z/W1 axes	mm/min	15000
• B-axis work feeds (rotary table)	rpm	0,001-1
• B-axis rapid feeds (rotary table)	rpm	2

MOTORS

• spindle motor power	KW	46
• X/Y/W axis motor power	Nm	60
• B/Z axis motor power	Nm	30

GENERAL DATA

Dimensions and technical data are not demanding and can be changed at the discretion of the Manufacturer



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|-------------------------|-----|-------|
| • total power installed | KW | 75 |
| • approx weight | Kg. | 32000 |

STANDARD ACCESSORIES

- CNC Unit HEIDENHAIN TNC 426 CA
- Tempered and ground sliding guides
- Polyamide resin counter guides
- Auto lubrication system
- Telescopic cover on the axis
- Lighting system
- Coolant system
- Electronic handwheel
- Chip conveyor
- Coolant system for drilled tools
- Machine compliant with EU Directive n° 89/392 and subsequent amendments 91/368, 93/44, 93/68
- Operator and maintenance manuals
- CNC manuals
- Year of construction 1997