CNC Machining Center BAZ 895n IQ

* Due to the continuous improvements of our products, some machine changes may apply.

Features

- Use of SYNTEC control system, fully automatic production from labeling, loading, drilling, nesting grooves and cuts and unloading
- Powerful nesting software for patterning workpieces within the panel, optimizing process, remaking any single workpiece, putting individual label on workpieces, working perfectly with the machine; adopted international standard XML file and fully opened port possible making connection to almost all furniture software
- Heavy duty gantry frame; X axis driven by double servo motors synchronizing for accurate movement
- Equipped with high precision tool setting probe
- Only one time to load panel ready to work, improving the production efficiency
- Use of HSK tool coupler; ATC magazine controlled by servo motor choosing from 8 tools, high speed and precision.

Equipment

Main parts

- Fully automatic production including 3 parts:
Auto load with labeling, CNC machining center and Auto unload
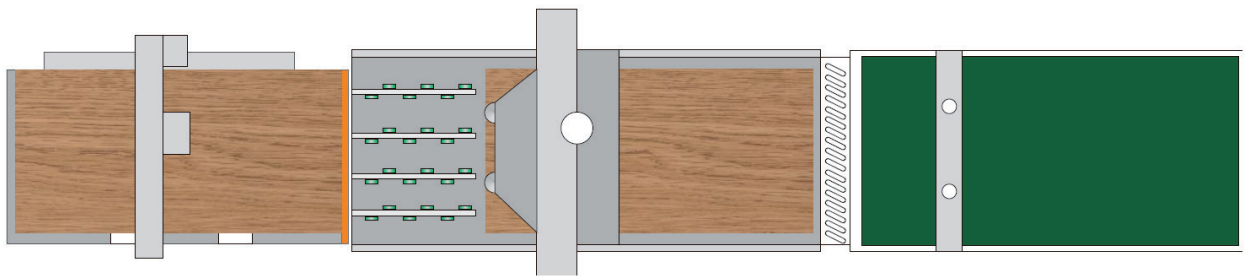
Auto load with labeling   CNC machining center   Auto unload

Auto load

- Hydraulic lifting table with capacity of 3,000 kg can automatically lift up to the level for labeling and transporting of the panels
- The aligning device can automatically align the panel for precise positioning

Auto label device

- Error-free and quick labeling
- Perfect time arrangement: auto labeling and nesting processing are carried out simultaneously
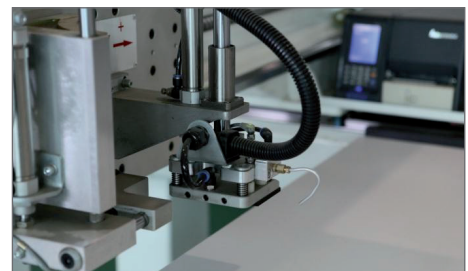

Label

- There are workpiece size, barcode, customer name, order info., edge banding info. and reference point of next process on the label, including all the necessary information for intelligent production
- Label format can be customized
- Also can use the QR code

Loading device

- Two vacuum cups can firmly grasp and transport the workpiece to working table
- A compact roller table can transport the workpiece without damage its surface due to minimum friction by rollers.
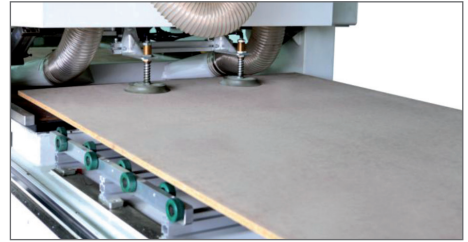
CNC machining center

Transmission mode

- X axis: rack and pinion
- Y axis: ball screw
- Z axis: ball screw

Servo motor

- The accurate movement of each axis is ensured by the high quality servo motors
- Servo motor brand: Yaskawa.

Main spindle

- Italy HSD air cooling spindle: high precision, stability, and long life
- Spindle power: 9kW
- Coupler type: HSK-63F

Automatic tool changer

- Controlled by servo driver
- The 8-position ATC ensures quick changing of tools and continuous processing of workpiece
- Standard equipped with 4 tool holder

Drilling unit

- 10 vertical drills
- Diameter of drill shank: 10 mm
- Max. borehole diameter: 35 mm
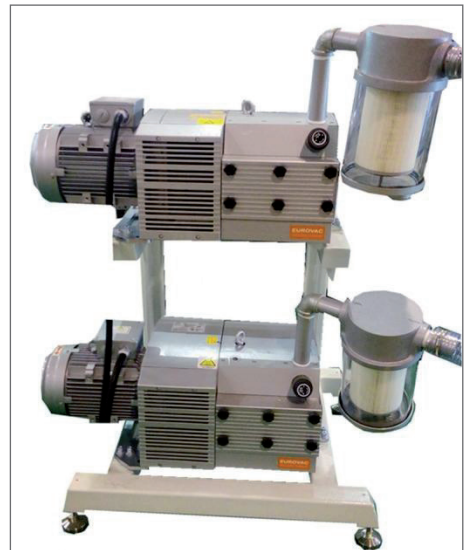- Center distance of drills: 32 mm

Auto unload

- Conveyor belt for transporting the workpieces
- Opto-electronic sensor ensures the belt can stop the workpiece at exact position

Vacuum pump

- Two vacuum pumps ensure the powerful suction
- Type: air-cooling
- Power: 5.5 kW
- Suction flow rate: 160 m^3/h

Automatic lubrication

- Auto load device and CNC machining center are all equipped with lubrication system that reduces the need of maintenance by operators.

Tool probe and locker

- The tool probe effectively improves accuracy and efficiency of tool setting
- The tool locker makes change tools easily

Dust extraction

- Centralized dust outlets, grouped each pipe together for easy connecting to the dust extraction system
- Table dust extraction device make good quality dust extraction from working table during discharging the workpieces to unload table
- Bottom and upper dust extraction device effective collect the dust after the processed workpieces coming out the table


Electric equipment

- Independent electric cabinet with air-condition
- SYNTEC control system
- IPC with Windows 7 system
- DELL display
- USB port
- SYNTEC provides stable performance, powerful functions and ease of use with friendly interface


NC-Hops for a shop floor oriented programming

- Powerful NESTING software
- Import of XML file to the software, G-code will be generated automatically.
- Various functions, such as patterning workpieces within the panel, remaking any single workpiece, optimizing process, putting individual labels on workpieces.
- Software also provides process selection function, you can choose the process to do it in the next step, software will generate the G-code for other drilling machines of the same brand.

MT Manager
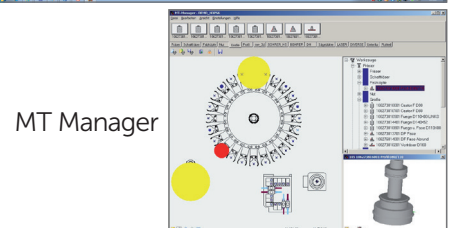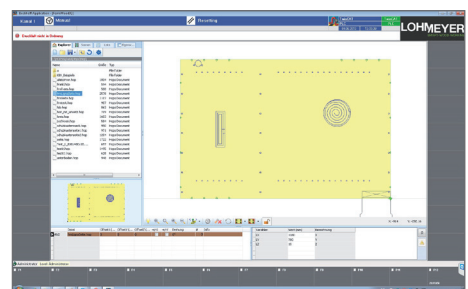
Data format

- Adopted international standard XML file and fully opened port possible making connection to almost all furniture software
- The XML format is fully open to the customer
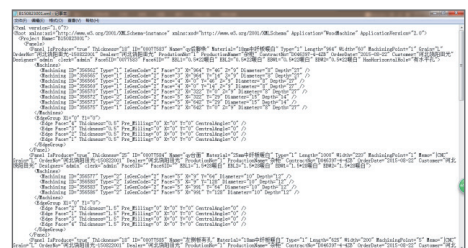
Technical Data

Working distance	X axis	3,000 mm
	Y axis	2,1000 mm
	Z axis	250 mm
Working table		3,000 × 2,100 mm, flat table
Max. traveling speed	X axis	50 m/min
	Y axis	50 m/min
	Z axis	20 m/min
Main routing spindle	no. of main spindle	1
	main spindle speed	24,000 rpm
	power	9 kW
	tool holder type	HSK-63F
	collet type	ER32
Automatic tool changer	no. of positions	circular tool magazine with 8 positions
	control	servo
Drilling block	no. of vertical drills	10
	max. drill diameter	35 mm
	power	1.7 kW
	rotating speed (grooving saw)	4,000 rpm
Vacuum pump	quantity	2
	power	5.5 kW
	suction flow rate	160 m^3/h
	cooling	air cooling
Compressed air	required air pressure	6-7 kg/cm^2
Dust extraction	pipe diameter	200 mm
	dust extraction speed	35 m/s
Power supply	power	26 kW/68A
	frequency	50 Hz
	voltage	380 V, 3 phases
Machine dimension	dimensions	10,000 × 3,500 × 2,600 mm
	machine weight	6,000 kg