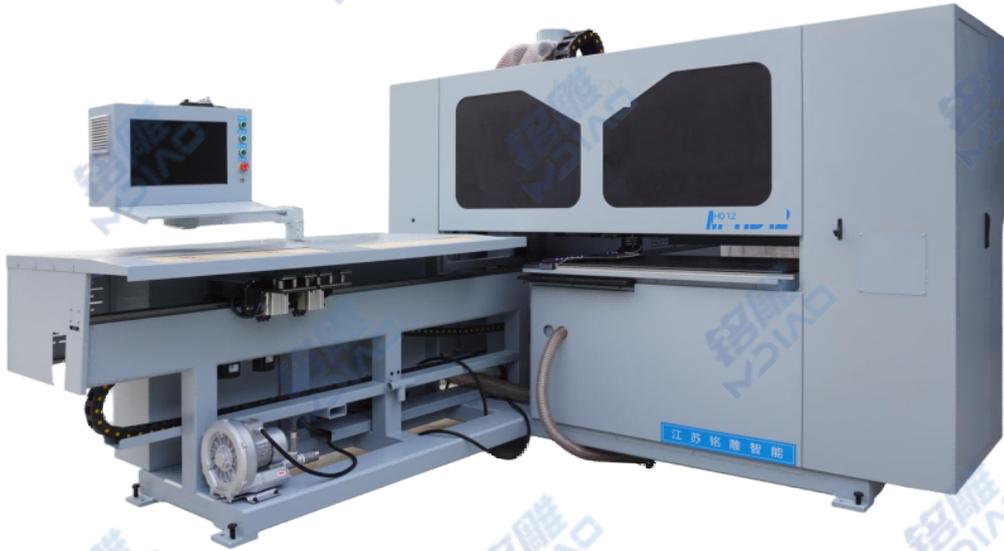


HD12 CNC Double diamond bag with six-sided diamonds

Configuration Sheet

- 1、 Product image display
- 2、 Description of the technical features of the equipment
- 3、 Device parameters and configuration table
- 4、 Features of main parts of equipment and pictures

1. Product image display



II. Description of the technical features of the equipment

CNC six-sided drilling center, efficiency fully reaches the level of dual-station PTP machining center, single-person operation by ordinary workers, low workload, can be directly connected with various order splitting software. Mainly used for vertical and horizontal drilling (hinge holes, through holes, semi-through holes, etc.) of various artificial boards, no need to flip the board, six-sided drilling is completed in one go; with a small spindle, it can perform grooving, shaping and other processing.

1. The system identifies processing information through barcode scanning, making it intelligent and efficient.

2. Computer operation, CAD drawing, CAM import, can directly import open data formats such as DXF, MPR, XML, etc., convenient operation.

3. Adopting double gripper long guide rail, the maximum gripping speed can reach 130m/min, intelligent detection of hole position information effectively avoids drilling positions, reducing the time of hand change during drilling. The gripper stroke exceeds 4.5 meters, large boards can be gripped and processed at one time, and the processing time of drilling large side panels of wardrobes is greatly shortened.

4. Configure an air flotation workbench and air flotation pressure plate. During the processing, an air layer is formed on the upper and lower surfaces of the plate to improve the efficiency of plate transportation and avoid scratching the plate; Simultaneously completing the drilling of the pressure plate to ensure drilling accuracy and efficiency; The installation position of the pneumatic drill bag is unique, which avoids the floating of the board during drilling, resulting in edge explosion and deviation of the hole position; And effectively prevent the accumulation of dust on the drill bag from causing the drill bit to get stuck and affecting production.

5. Processing modes can be selected according to production output and production process. The forward-backward mode allows for immediate processing of the next board after the previous one is finished. The entire process is smooth with short downtime. This forward-backward mode enables in-line production, achieving drilling performance comparable to imported dual-station PTP drilling centers. The forward-forward mode is primarily designed for machining multiple vertical holes on both sides.

III. Configuration Parameters

model	M-HD12
Packaging dimensions (XYZ) mm	5000/2900/2200
Gross Weight (kg)	3000
Total Power (kW)	25.5
Working Air Pressure (MPa)	0.6
Maximum Speed (m/min)	120(x)/100(y)/30(z)
Minimum Machining Size (L*W)	100*20
Maximum Machining Size (L*W)	2800*1300
Maximum Speed of Y-axis/B-axis	100m/min
Maximum Speed of Z-axis/C-axis	40m/min
Number of cutting tools	Up drilling: 10 vertical drills+6 horizontal drills Down drilling: 7 vertical drills+lower support plate
workpiece thickness	10-60 mm
Workpiece width	20-1300 mm
Workpiece length	100~2800mm
Air consumption	Grooving: 550L/min Drilling: 5L/min
Overall dimensions	4945/2850/2200
suction inlet	8 inches * 2 4 inches * 1
spindle power	Upper Spindle 3.5kW / Lower Spindle 3.5kW
Maximum speed of gripper	130m/min
Diamond bag brand	Taiwanese brand
control system	Hyde League
Drill clamp specifications	φ10

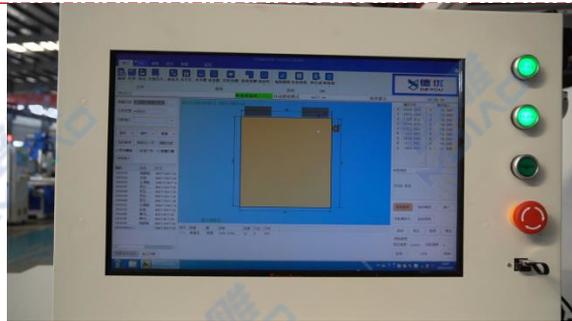
IV. Features of main parts of equipment and pictures



1. Diamond bag:

---Up drilling: 10 vertical drills+6 horizontal drills; Drilling: Vertical drilling of 7+pallets

Suitable for machining large-size boards with many densely distributed holes. Some high-end models, through intelligent algorithm optimization, can achieve simultaneous processing of two drill packs when the hole spacing is $\geq 64\text{mm}$, thereby improving efficiency.



2. Control system:

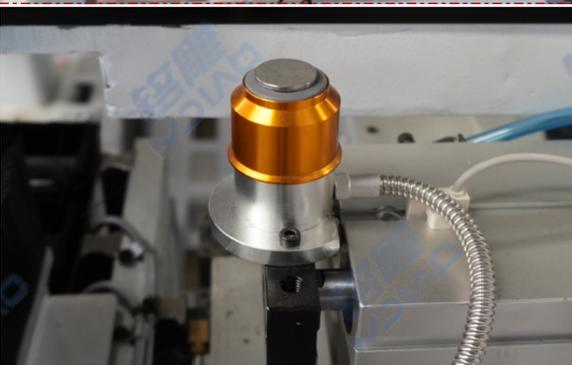
---Hyde Alliance System

Computer operation + CAD/CAM, convenient operation, label scanning processing, integrating program import, processing list, graphic viewing, program processing, manual programming, and database management, can recognize multiple file formats such as xml, mpr, and bpp, accurately and quickly.



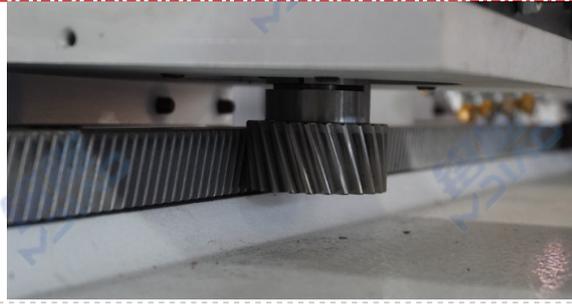
3. High speed drill bag:

--- Quantity of horizontal drills: 2*2 in the X direction, 2*2 in the Y direction; Quantity of vertical drills: 7 lower drills + lower pallet



4. Tool setter:

--- Equipped with an automatic tool setter, the tool automatically measures and corrects its origin, saving time and effort.



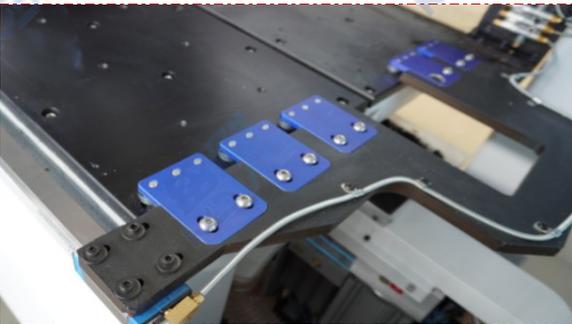
5. Servo control, gear and rack transmission:

--- High-precision servo control, combined with gear and rack transmission, is stable, durable, and easy to maintain.



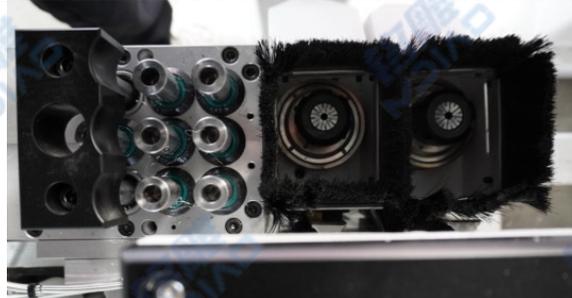
6. Safety device:

--- Added gripper guard to improve operational safety.
Safety protection device to prevent accidental collision damage during equipment operation.



7. Servo side-adjusting device:

---The servo side relies on the mechanism and the side relies on the pressure plate, making the board more stable and drilling more precise.
Clamp the board from the side and check its width to ensure machining accuracy



8. Double spindle and drilling bag:

---Configure drill pack and spindle, optional dual spindle;
Cooperate with the spindle to complete synchronous slotting on both sides, improving processing efficiency



9. Heavy duty frame rack:

---The machine undergoes multiple processes such as welding, natural aging, annealing, and processing to ensure accuracy and stability



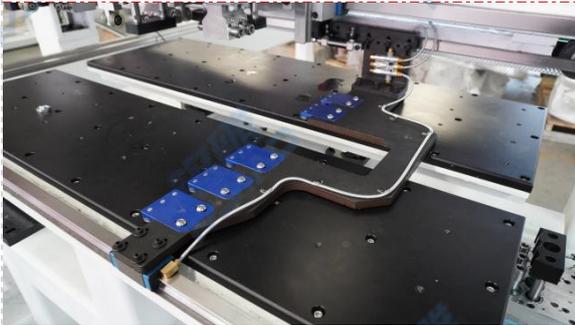
10. Dual linkage gripper (including air floating gripper block):

---The main clamping mechanism is responsible for accurately grasping and moving the board. Air flotation design can avoid damaging the surface of the board



11. Z-axis lead screw:

--- Z-axis: TBI 2510 lead screw; X/Y adopts a high-precision new type reducer (three-arc precision) from Taiwan (Mingdiao custom).



12. Air flotation table/platform:

---Using air flotation technology to lift the board and minimize friction during movement, preventing scratches and improving positioning accuracy;

Uniformly support the plate during processing to prevent deformation caused by gravity or stress and ensure consistent hole depth