



AR MACHINERY
Woodworking Technology



PT6-1325-AR

6 SIDES DRILLING MACHINE



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Company overview

PMSK is one leading manufacturing and exporting company of wood working machine in China.

We are committed to provide one shop stop service to our customers all over the world.

Our company was established in 2012 with the manufacturing centers in Foshan, covering about 75000 square meters.

Our Foshan manufacturing center which is specialized in high quality and heavy duty CNC machines.

Quality Control

Highly skilled and educated employees manufacture products in a modern facility, which incorporates C.A.D. (Computer Aided Design),

C.A.M. (Computer Aided Manufacturing)

and C.N.C. (Computer Numeric Controlled) manufacturing techniques

and our products are strict produced according to **CE AND EAC** requirements.

Our Mission and Target

Let Chinese woodworking machinery serve the whole world

Create maximum value for customer

To give the best support for our client.



Intelligent production line workshop

The entire production link draws on the world's advanced automotive assembly line design concepts, independently developed and designed an advanced CNC machinery assembly line, which greatly improved the mechanization, intelligence, and information level of CNC equipment manufacturing, and the main technology reached the international advanced level of similar products.

The production cycle of CNC equipment was reduced from one month to two hours.





1. Robot Welding System

PMSK CNC introduced a Japanese robot welding system, and the bed and beam of the CNC machine are all welded by robots.



2. Trolley Type Resistance Furnace

Trolley-type resistance furnace: mainly used to eliminate welding stress on the bed and beam of CNC equipment. At present, we are the only manufacturer in this industry with high- standard heat treatment technology and equipment.

The whole machine of the trolley-type resistance furnace weighs about 100 tons.

With automatic temperature control function, 8 sets of bed and gantry heat treatment can be completed at a time. Each heat treatment takes more than 10 hours and the power consumption reaches 4000 degrees.

Heat treatment process:

According to the specification, model and welding equivalent of the plate (or profile) used for the bed and beam, a strict stress relief annealing process is formulated.

Take the bed and beam of EA48 as an example:

place the welded bed and beam in the heat treatment furnace.

Quickly heat up to 300°C and hold for 0.5h, then increase to 600°C

at a heating rate of 150°C per hour,

hold for 1.5h, and cool down the furnace to below 300°C.



3. Large-scale Automatic Shot Blasting Equipment

Shot blasting is mainly used in the anti-corrosion and rust removal of the fuselage. It uses high-speed moving projectiles (60-110m/s) to continuously impact the surface of the strengthened work piece, so as to remove surface oxides and other impurities and improve the appearance quality.

The shot blasting equipment introduced by our company has an anti-corrosion and rust removal level of SA2.5 or higher.



4. Multiple Large CNC Gantry Milling



The whole machine body adopts large gantry milling and finishing milling to ensure the accuracy of the equipment.



5. Plastic Spray Line

The plastic spraying process is to use the principle of electrostatic adsorption to spray the powder coating on the surface of the work piece; then it is cured at a high temperature to form the final protective coating; it is firmly attached to the surface of the work piece (Note: heated to a predetermined temperature generally 185 degrees, and heat preservation corresponding 15 minutes).

6. Equipment Assembly Line



We have used the design concept of the world's advanced automobile assembly line for reference and independently developed and designed the first CNC equipment production assembly line in the industry. Four product assembly lines are arranged throughout the workshop.

The production capacity is 2 hours off the assembly line for a finished machine, with a monthly output of more than 500 units.



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Image only for references



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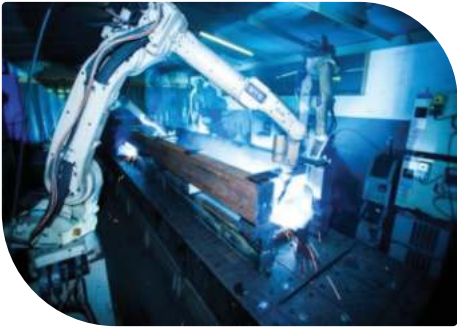


5. Plastic Spray Line

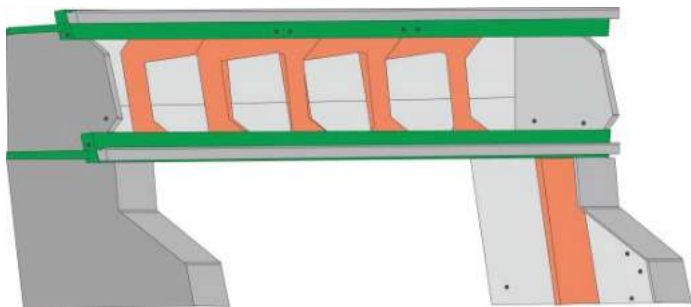
Processing size	X axis travel, 3000mm Y axis travel, 1500mm Z axis travel, 200mm
Maximum feed	X axis speed, 130m/min Y axis speed, 85m/min Z axis speed, 25m/min
1* upper spindle	3.5KW CC
1* Lower spindle	3,5KW CC
Upper roll drill model	12V+8H (upper 1) CC
Lower row drill model	9V (below 1) CC
Reducer	Japan Shimpo
Transmission rack	Germany Rotalin
Drive screw	Taiwan TBI
Frequency conveyor	Hippo Monte
Main electrical components	Schneider
Maximum processing size	1200mm (board width)
Minimum processing size	40*180mm
Main pneumatic components,	SMC & Airtac
Wireless scanner	American ZEBRA
Countertop structure	Air floating HPL + chrome plated
Machine dimension	3050*5700*2600mm
Machine Weight	3800kg
Working Voltage, air pressure, power	3PH AC380V/50HZ, ≥ 0.65 Mpa, 22KW
Air Consumption	800 l/min
Dust Collector flow rate	500m ³ /H



7. Machine Body



- Heavy duty machine body is welded with square tube and laser-cut steel plates, then through processing of advanced CNC machine for metal work, hence enhance the stability and strength, reduce the vibration in the process;
- Some casting parts used on the machine guarantees long service life without deforming.



8. Gantry

Compact support ribs inside gantry ensure the higher strength and stability, that means higher machining quality and longer service life; All the machine bodies and gantries are through stress relief before installation.



9. Quality Control

Advanced measuring equipment and strict QC system also help to make sure the final machine we offer to our customers are of high quality.



10. Professional Assembly Line



Professional assembly is the important step for better machine performance. Professional assembly lines from machine body to small electrical components done by experienced technicians that guarantee machine standardization and performance.



Function Introduction

Mainly used for drilling and grooving of panel furniture. It can efficiently process common panel furniture two-in-one and three-in-one connector installation holes. At the same time, it can realize panel grooving, milling, standard panel and special-shaped panel. Parts can be processed, this machine automatically recognizes plate information through wireless scanning of plate label, and can automatically feed, automatically process all holes and grooves in one positioning, without turning over, high precision, fast speed, and various processing. The operation is simple, especially suitable for the production and processing of customized furniture;

Features:

1. One-time positioning and multi-face machining accuracy is high, and the machining speed of the up one + down one CNC drilling package is faster;
2. Heavy-duty and high-strength gantry design, high-speed movement of drilling and milling mechanism without jitter, and stable operation of the equipment;
3. Can **scan codes** in batches and automatically queue for processing; you can choose between forward and backward unloading;
4. The system integrates CAM software, **MPR HOMAG system integration**, which is mature and stable, and is convenient for docking with fully automatic production lines;
5. 9 sets of absolute value servo drives, which can be accurately controlled, without returning to the origin, **without additional travel limit**;
6. Intelligent floating clamp intelligent avoidance, large and small plates, and special-shaped plates can be processed; **double plates can be processed at the same time**; the scientific design of clamp positioning piles reduces the number of clamp switching as much as possible and improves processing efficiency;
7. The air-floating bead countertop can effectively protect the surface of the board and make it easier to load; the electroplated stainless steel countertop in the processing area is stable and not deformed, ensuring the processing accuracy is unchanged;
8. It can be used for special-shaped cutting, glass door engraving and milling, with complete functions;
9. Computer operation, CAD drawing, CAM import, can directly import DXF, MPR/XML and other open data formats, easy to operate; can be docked with American CV, French Topsolid, Haixun, Sanweijia, Yunxi, 1010, Cabinet Vision, Polyboard and other well-known domestic and foreign designs Single software.



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12. Control Screen

Intelligent control system, windows platform with office network connections, 22 inch screen



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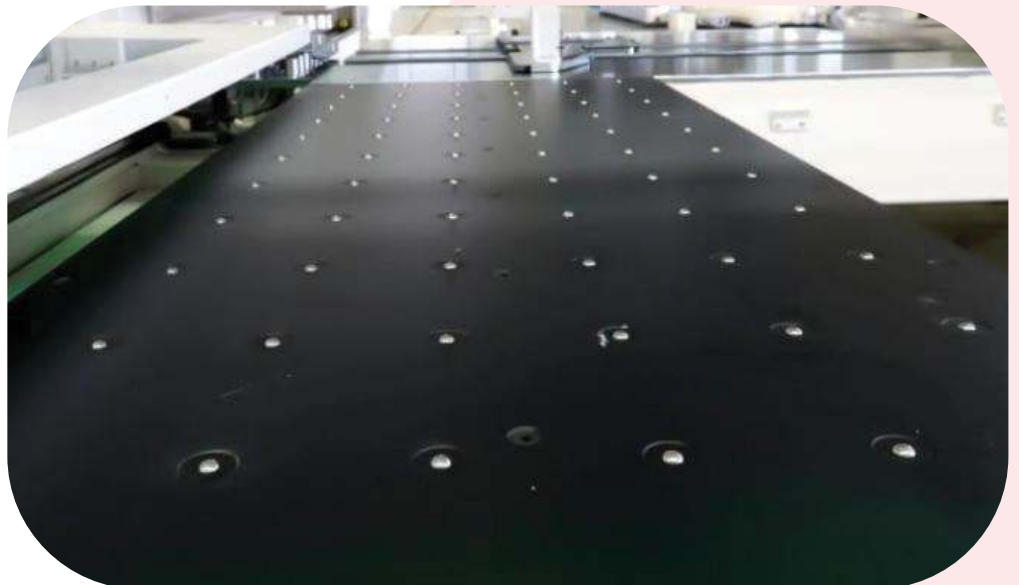
13. Dual Clampers

Long guiding rail with dual clampers. Cleaning device in between to remove possible chips and dust on work piece surface for tightly grasping. Special design on bottom, clampers will fall down to make sure work piece and the unloading table are at same level to prevent possible small scratch.



14. Main working table

Air-floating bead anti-fold





15. Unloader Conveyor

Unloader conveyor Mink
Easy-Move-System:
For an optimal ease of handling
during conveying in all directions.

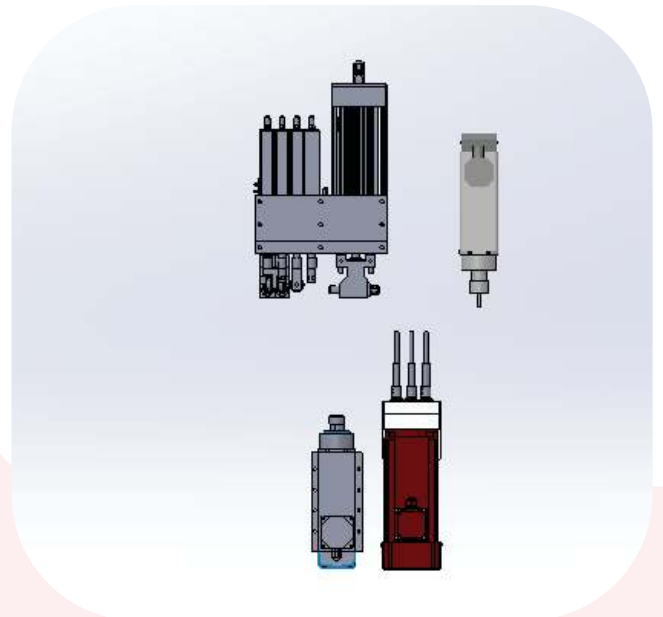
Benefits:

Damage is prevented Quiet conveying
Quick replacement of individual brushes
Smooth 360° movements in conveying, turning, pushing and sorting applications



16. Machine Configuration

Upper section: one drilling head + one milling head
Lower section: one drilling head + one milling head



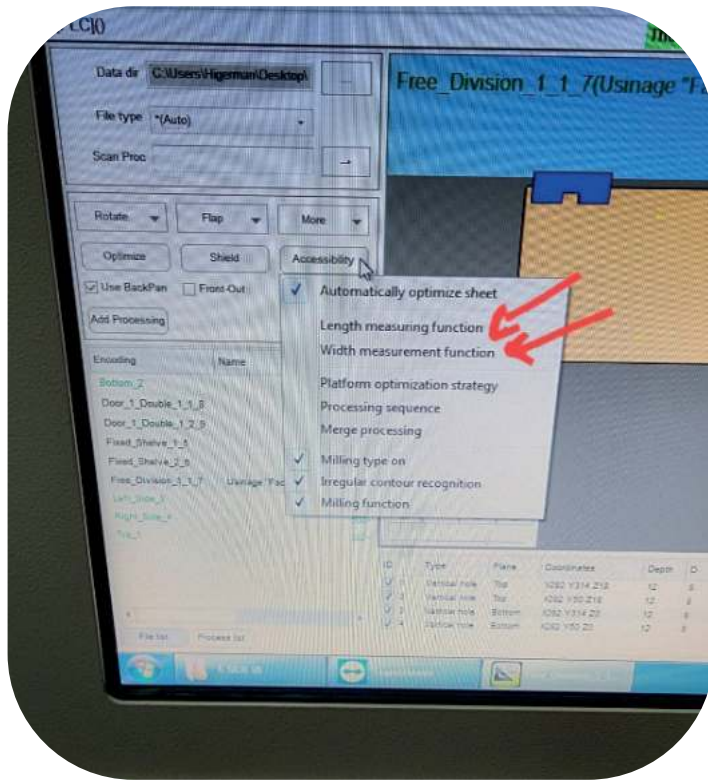


17. Cooling System

The electrical cabinet is equipped with constant industrial temperature air-conditioning.

18. Statistic Management





19. Length And Width Measurement Option

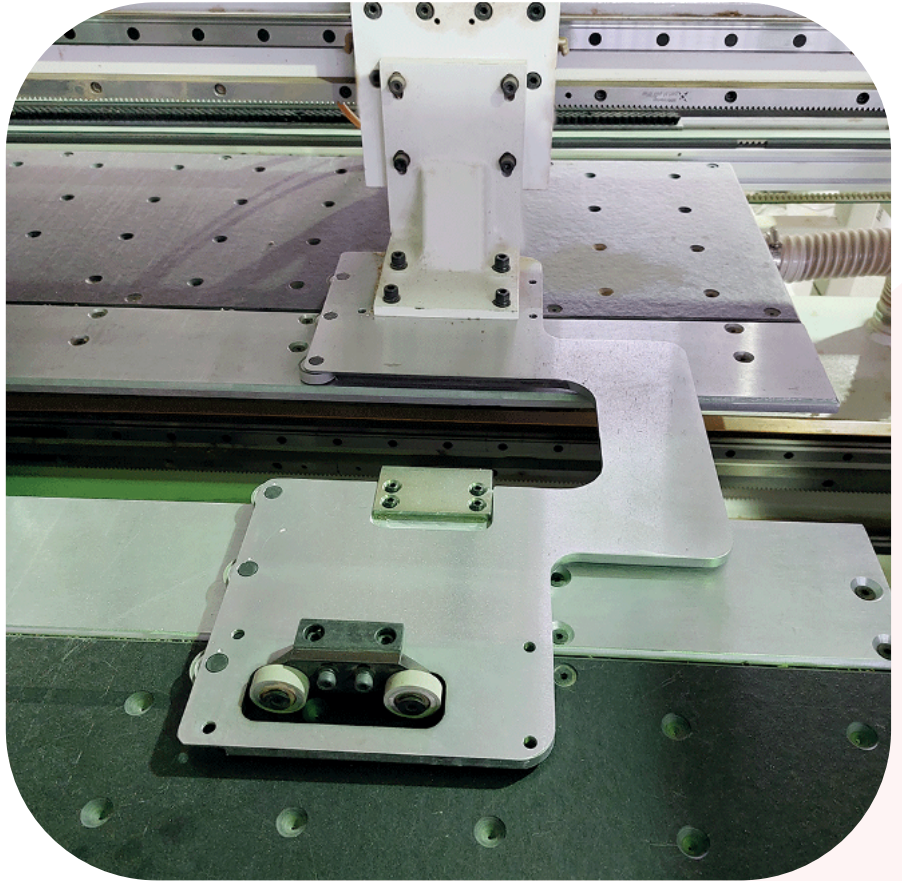
20. Wireless Scanner Barcode Reader



Machine could be connected even with Panel Saw or with CNC Nesting machine



21. Servo Side Pusher

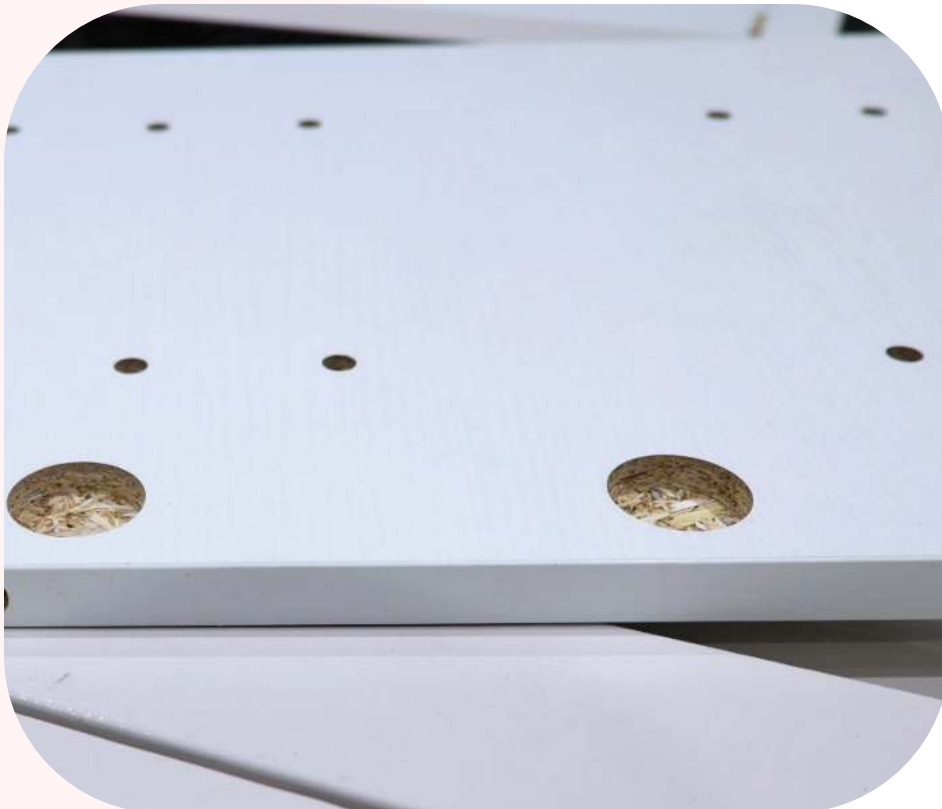


22. Lower Drilling Head





23. Upper Drilling Head





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OREE LASER



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CE certification

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Our machines have successfully obtained the CE certification, confirming its compliance with European Union safety and quality standards.

This certification is a testament to our commitment to delivering high-quality, safe, and reliable machinery.

The CE mark ensures that our machine meets the necessary legal requirements, providing you with confidence in its performance and safety features.

CE



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