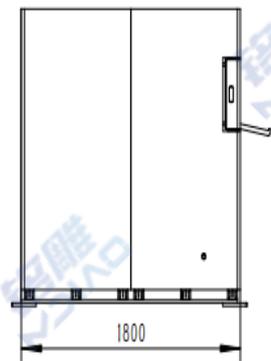
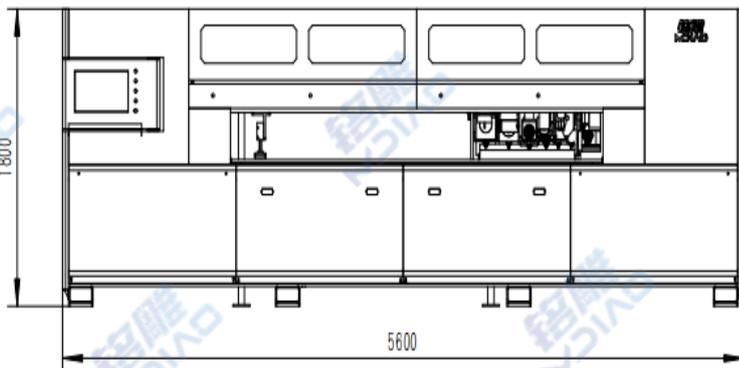
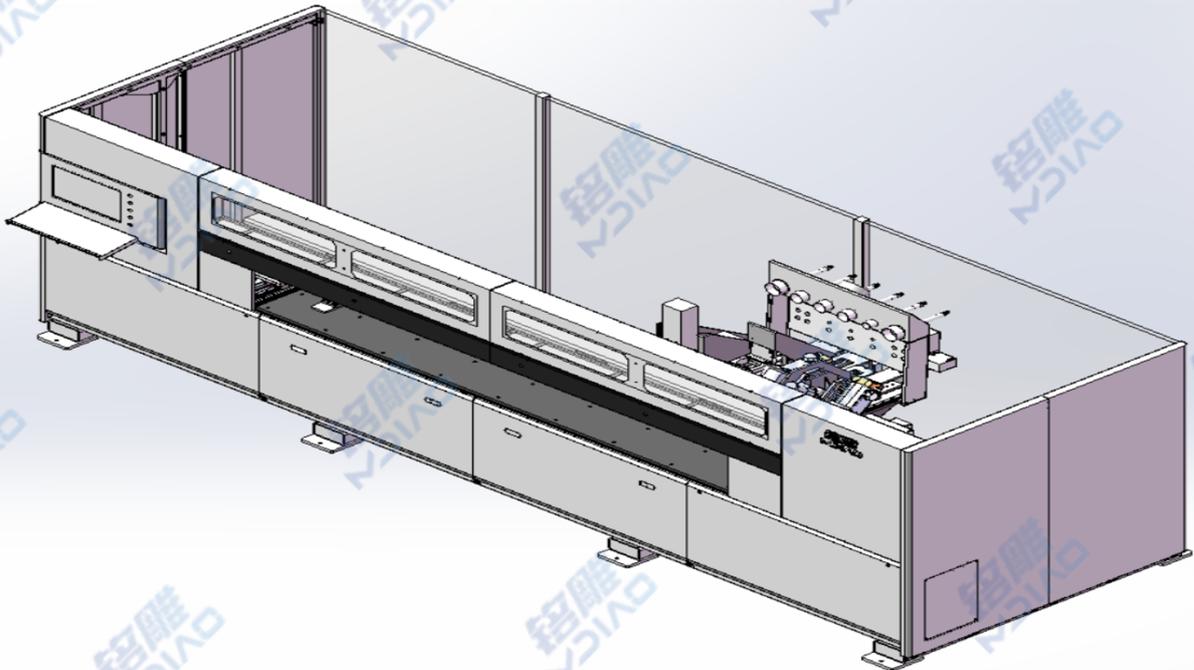


MD2800LF Door and Wall Cabinet All-in-One Machine

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



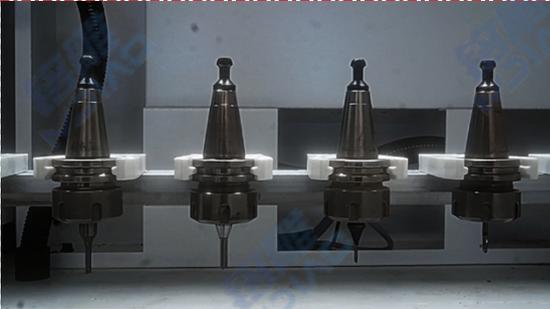
II. Description of the technical features of the equipment

- 1. This machine integrates processing functions for three major product categories: doors, wall panels, and cabinets. It can complete tasks such as grooving of hardware handles, machining of hinge holes, installation of straighteners, cutting of beveled corners, machining of door lock holes, and milling of hinge slots in a single operation.*
- 2. The machine not only supports conventional flat surface processing but also performs complex processes such as 45° bevel cutting and 45° lamino bevel machining.*
- 3. Equipped with a 24,000 rpm tool-changing spindle, a horizontal four-axis spindle, a 45° saw blade spindle, a drilling spindle, and a lamino spindle, it adopts the Weihong control system, supports direct CAD import, and provides MPR/DXF/XML file interface options, greatly facilitating on-site production and integration with new processes.*
- 4. The linear 8-tool magazine enables automatic tool changing, making continuous processing of complex workpieces possible. It employs a movable pressure cylinder system to precisely hold the sheet metal, preventing misalignment caused by material movement during processing.*

III. Configuration Parameters

Product Name	model	Tool magazine capacity	Remarks
Door wall cabinet integrated machine	MD-2800LF	Follow the straight line tool change with 8 knives	The machine comes with a one-year warranty, Lifetime maintenance (excluding consumables)
machining dimensions	X3050mm*Y150mm*Z150mm		
motor	Weihong bus X/Y axis 1000W; Z axis 1500W		
Drive Type	Weihong bus X/Y axis 1000W; Z axis 1500W		
guide rail	Taiwan original square guide rail (three-axis 30 #)		
spindle	JST 6KW tool changer spindle; Mingdiao custom 4.5KW horizontal spindle; 1.5KW multi-drill; 4.5KW 45° saw blade spindle; 2.2KW Lamino spindle		
Knife andle/clamp	Can clamp ϕ 3.175-12.7M		
frequency converter	Fuling 11KW/380V, 3.7KW/380V		
Transmission method	X-axis: Gear and rack (Taiwan (Mingdiao Custom) high-precision helical rack; ground gear;) Y/Z axis: Lead screw X adopts Taiwan (Mingdiao Custom) high-precision new type reducer (precision in three arcs)		
cable	Imported drag chain cable		
Mountain positioning	Standard positioning cylinder (thickened ϕ 30)		
bed	Thickened steel structure, steel structure (bed) tempering aging treatment		
control system	Weihong control system; 22 inch LCD display; Wireless keyboard and mouse		
Tool diameter	3.175/4/6/12.7/16		
power supply	380V/220V		
cabinet	Computer controlled all-in-one machine		
pressure plate	2 groups		
All switches, buttons, AC contactors (Honeywell, USA), and circuit breakers in this product are imported products.			
The machine weighs about 2.8 tons, and the above configuration is the acceptance standard.			

IV. Features of main parts of equipment and pictures



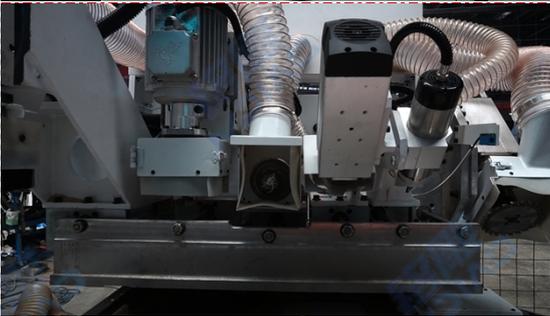
1. 1 Tool Magazine:

- 8-tool magazine (line-up)
- ISO30 tool holder, ER32 tool clip, can hold ϕ 3.175-20MM tools
- The capacity of 8 tools can cover the needs of multiple processes such as milling, drilling, and tapping on various materials (e.g., non-metallic sheets, metal parts).



2. Weihong Control System:

- 22-inch LCD monitor; wireless keyboard and mouse;
- Supports direct CAD import function and provides multiple file exchange methods such as MPR/DXF/XML, greatly facilitating on-site production and integration with new processes.



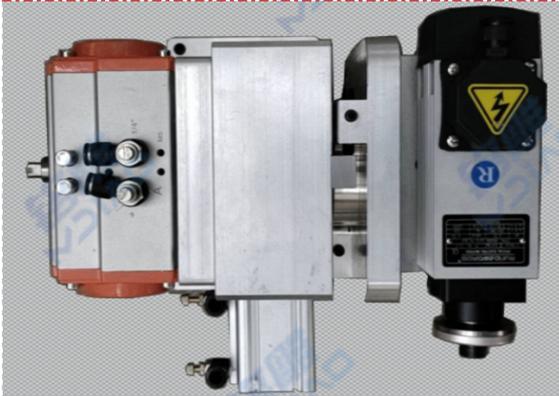
3. Multifunctional Spindle Assembly:

- Equipped with a 24,000 rpm tool-changing spindle;
- Four-axis horizontal spindle, 45° saw blade spindle, drilling spindle, and lamino spindle;
- The equipment not only supports conventional planar machining, but also performs complex processes such as 45° bevel cutting and 45° lamino bevel machining.



4. Tool Changer Spindle:

- Brand: Mingdiao Custom Tool Changer Spindle
- Power: 6.0KW
- Spindle Speed: Maximum 24000RPM, Variable Frequency Speed Control;
- Broaching Spindle, ISO Automatic Tool Changer
- Automatic tool changing is achieved through cylinder switching. Larger hole diameters are machined by enlarging, meeting production process requirements.



5. Saw Blade Spindle:

- 4.5KW 45° saw blade spindle;
- Water cooling system controls temperature rise, ensuring accuracy and stability during long-term continuous operation.



6. Movable Pressure Cylinder System:

- This system employs a movable pressure cylinder system, which precisely presses down on the sheet metal, preventing misalignment caused by material movement during processing.



7. Bed steel:

- The bed is made of Q235B/H rectangular tubing with a wall thickness of 8mm according to national standards. Q235B/H steel is low-carbon steel with good weldability, and the sawing and welding of the tooling achieves a seamless connection of the bed.



8. Bed tempering and aging treatment:

- After 48 hours of high-temperature tempering treatment and quenching treatment, the hardness of the bed is increased to 36-40HRC, avoiding the occurrence of cracking during the length of the bed or during loading and use.
- After more than 10 days of self ignition aging treatment, the bed body is guaranteed to be used for many years without deformation.



9. Body features:

- The bed adopts a large five axis gantry milling machine, which can complete the milling of the guide rail surface, rack surface, and other required installation hole positions in one go.
- The reinforcing ribs on the bed are relatively dense, which increases the strength of the bed and ensures that the bottom plate does not deform.
- plus Workbench dimensions: X1280mm*Y2800mm*Z200mm;



10. Bed grinding, spraying, baking treatment

---After careful manual polishing, Aksu powder is used for spraying. Aksu is one of the world's largest suppliers of plastic powder, characterized by strong adhesion, high temperature resistance, high gloss, and strong artistic three-dimensional sense.



11. Guide rail:

----Taiwan original square track;
 ---X/Z axis 30#;Y axis 30#

Square guide rails have advantageous characteristics suitable for specific applications, meeting high stiffness and high load applications. The maximum load of the 30 # square rail can reach 32KN.

During high-speed machining, it can better ensure operational stability.



12. Rack:

----Taiwan original high-precision helical gear rack with precision of three arc minutes;
 ---Grade 7 precision precision milling oblique tooth mold 2 quenched and tempered gear rack with 20-26 degrees, tooth surface smoothness of 3.2.



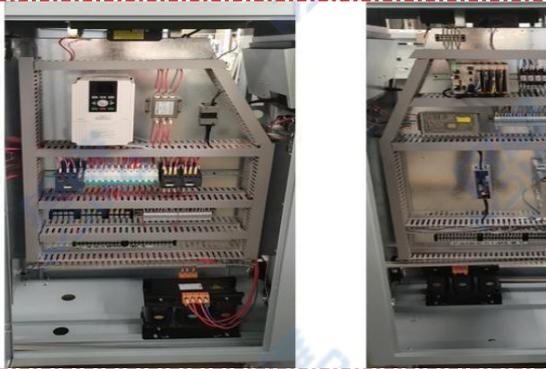
13. Gearbox:

--- Taiwan Fordesy Precision Reducer AL-090-5-K3-19
 High precision, good rigidity, large bearing capacity, high efficiency, long service life, low noise
 Timely control start stop and speed change. Increasing the torque through the reducer is equivalent to increasing the input power, which can reduce the power required by the input motor (in situations where speed regulation is needed)



14. Motor drive:

---Weihong Bus Absolute Value
 X/Y Axis 1000W; Z Axis 1500W
 Larger Drive Motor: (Smoother operation; More powerful)
 The machine uses a new generation motor, increasing speed by 30%: (Idle speed 60-80 m/min; Machining speed 8-25 m/min)



15. Electrical control cabinet

---The electrical control cabinet separates strong and weak electricity, with a more reasonable layout, which can effectively reduce interference between electrical appliances. The larger space can effectively increase heat dissipation capacity!



16. Electrical components:

---Switches, buttons, AC contactors, air switches, etc. are imported products (imported from Honeywell, USA)