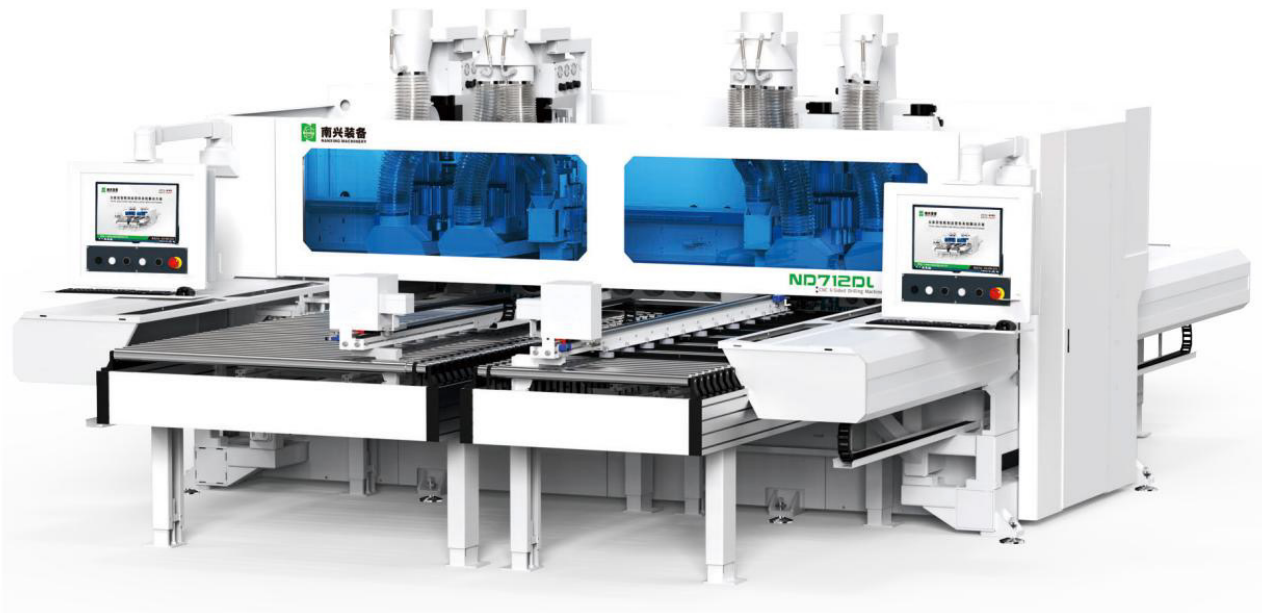


## CNC 6-Sided Drilling Machine with Double Work Station ND712DTL

1200+650

NichoMachines Machinery



Find more: [www.nichomachines.com](http://www.nichomachines.com)



3-year warranty\*  
ensuring no hassle  
and unforeseen costs



Quick return on  
investment



Low Total Cost of  
Ownership



Ensuring low price  
by sourcing cleverly  
in large quantities

### Highlights

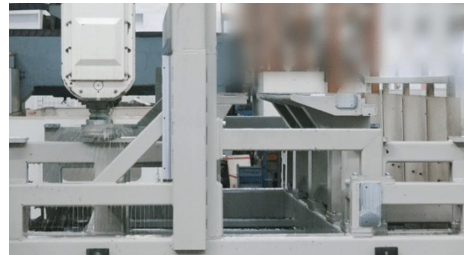
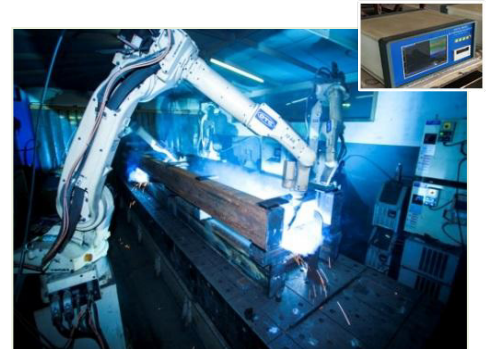
ND712DTL is designed to have 2 independent work stations 1200+650mm by integrating 2 machines on one machine, thus double the efficiency with less space requirement compare. Integrated machine body structure of high rigidity offers the whole machine longer service life and stably fast processing. Optimized drill bits layout makes drilling more efficient; Auto infeed and outfeed

## Details

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### 1. Machine body

- Integrated frame-type 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; Gantry and machine body have been designed as one organic structure of high rigidity;
- Frame body pass the heat treatment and vibration aging treatment to guarantees the whole service life without deforming. 2
- After sandblasting and painting, the top-grade CNC metal processing machines are used to process the body and components to make sure perfect quality and detail.



### 2. 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;
- All the machines are delivered with Quality Certificate signed by QC specialist.



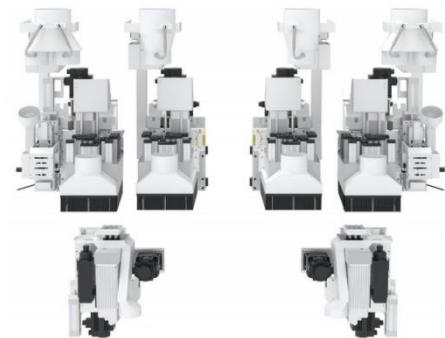
### 3. Professional assembly line

- Assembly is final and important step for better machine performance. Nanxing's professional assembly lines from machine body to small electrical components were by experienced technicians that guarantee machine standardization and performance.



### 4. 2 work stations

- Machine has 2 independent work station with independent computer and double processing units makes it possible to process 2 boards at the same time, double the efficiency.
- Work station 650 & 1200mm working width meet most cabinets processing requirement.
- 2+2 drilling blocks & 1+1 Main spindle on top (ATC) 1+1 drilling blocks & 1+1 Main spindle on bottom



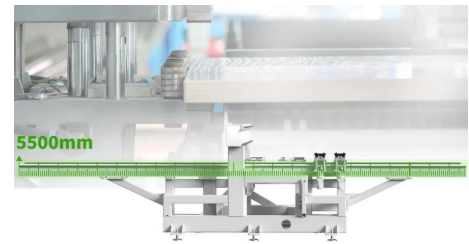
### 5. Auto bar code scanning

- Auto scanning the bar code, machine will process automatically;
- 2 scanner ensures long panel can be read properly
- Good quality of fast recognizing speed



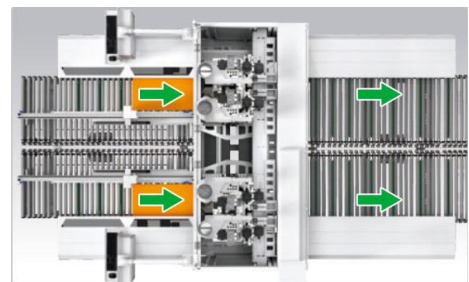
6. Long clamp beams & fast clamps

- The design of 5.5m longer high-rigidity clamp beams on two sides ensure stable and fast clamp moving with least vibration, and reduces the frequency of switching clamp during processing, thus higher efficiency.
- The movement of dual clamps on both sides is controlled by servo and along inclined rack&pinion for accuracy in process;
- The gripper is equipped with an independent air blowing function to effectively blow away dust on the board surface; three sets of built-in positioning rods ensure accurate positioning of narrow boards and more stable processing.



7. Auto Feed-in&out with separate auto positioning

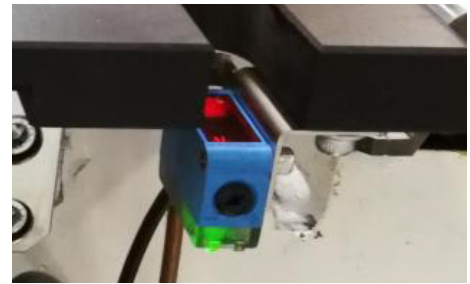
- Each workstation has independent auto positioning device of servo control;
- The hairbrush and conveyor belt on outfeed tables can offer very good protection to the surface.



8. Board size detector

X direction board length detect

- There would be alarm when lengthwise detector detects length is not correct to ensure operator puts the right board.



Board width detect&offset

- Configured on drilling block to detect the board width and compensate the board width errors, so as to avoid the hole position error caused by different benchmarks. Accuracy is up to 0.02mm.



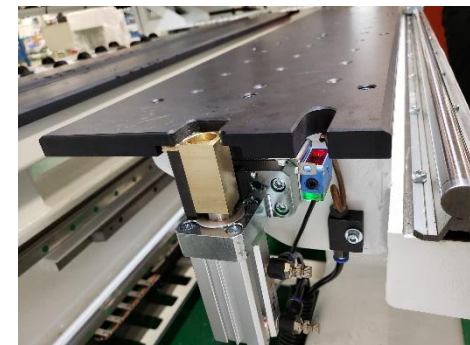
9. Positioning

Side aligner in 2 work station

- Dual clampers cooperate well with auto side alignment to guarantee precision and stability in panel processing.



Positioning cylinder



Support plates

- Top and bottom drilling blocks and main spindles have support plate to offer the board a support force when the other side is being processed to ensure accuracy in process.



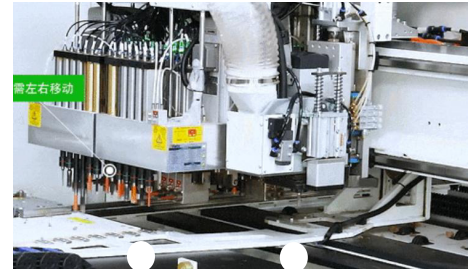
10. Main spindle\*4

Top: 2 pieces

2pcs 5.5kw main spindles 18000rpm/min with 8-slot ATC

Bottom: 2 piece

2pcs 3.5kw main spindles (ER25) 18000rpm/min



11. 8+8 slots tool changer

- Tool type ER25, top main spindle can change tool automatically from 8+8 slots



12. Tool setting gauge

- Without need of setting tool tip by manual, by using tool setting gauge, main spindle can change tool automatically;



13. Invisible hardware

- Machine is configured with aggregate and tools to process Lamello groove and some invisible hardware processing.



Invisible hardware

14. Side Grooving

- Side grooving by adding an saw blade head, suitable for light trough



### 15. Optimized Drilling Block

- Max rotating speed 5000rpm, hole edge is smoother. Added the pressure stabilizer pump to maintain the drilling depth

Top: 4 pieces

- The compact structure design of the double diamond bag has higher applicability. The hole spacing is 64mm vertical drilling + 192mm horizontal drilling, which enables simultaneous processing of double drill packages and improves the utilization rate.
- Optimized drill layout, When processing minifix holes on the left and right sides of the panel, the clamping hand does not need to move forward and backward. When processing minifix holes on the front and rear sides of the board, the drill block does not need to be translated left or right. Horizontal and vertical drills are redesigned to increase efficiency by 10%

- Horizontal drill: 6\*4 in X direction & 2\*4 in Y direction  
Vertical drill: 19\*2

Max drill bit diameter: 35mm

Drill space: 32mm

Drill holder diameter: 10mm

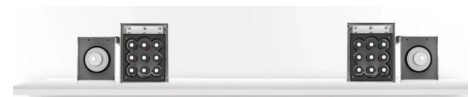
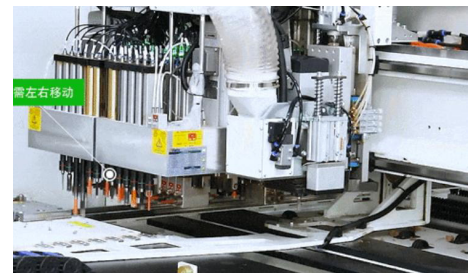
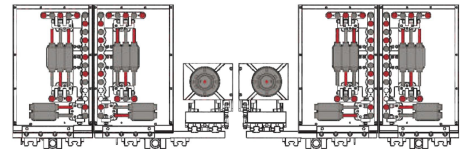
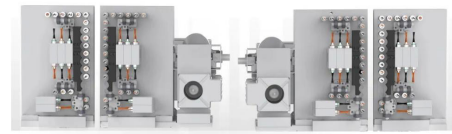
Drill length: 70mm

Motor power: 2.2kw

Bottom: 2 pieces

Vertical drill: 9\*2

Motor power: 1.68kw



16. Accurate movement of each axis

X and Y direction

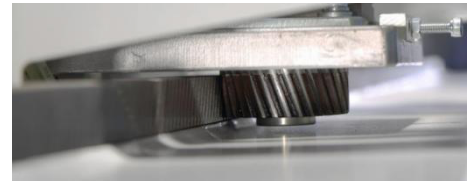
- Transported by inclined rack and pinion of large bearing capacity and strong stability;

Z direction

- Ball screw rod gives the machine added precision in Z direction.

Servo motor

- The accurate movement of each axis is ensured by the high quality servo motors.
- Max travelling speed: X/U/Y/Z:135/135/75/30m/min
- X: 0.75kw; Y:0.85kw; Z: 0.85kw; V2: 0.4kw



17. Quick change tool

- Both sides have door, tool can be changed by opening the door and from the middle of machine
- Drills rods are quick install head, easy to change.



18. Cable chain

- High-quality drag chain used to drag and protect electric wire and air tube during movement of each axis of longer service life.



19. Manual controller wheel

- Hand wheel makes commissioning more convenient.



20. Start button & foot pedal

- Starts by Start Button or foot pedal
- Machine featured start pulling bar, easy to start especially for long boards.



21. E-stop

E-stop



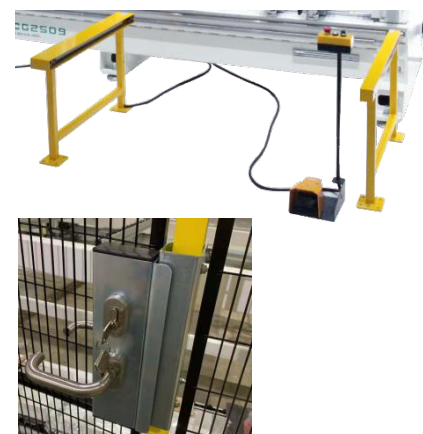
22. Dust conveyor belt

- A powered belt on bottom of machine to feed dust and chips out of machine, easy to clean



23. Safety fence & Light barrier

- Machine is with whole set safety fence with safety door and light barrier ensure the safety of operator;



24. Industrial computer\*2

- 2 sets independent Industrial computer on left and right work stations, even if one computer has problem, the other still works normally.
- Windows 10 operating system. 10
- 17" DELL display;
- CPU: Ryzen 7 5800H/ Memory: 8G DDR4
- Hard disk: SSD 256G M.2/ NIC: dual 1000M NIC/Windows 10 IoT customized edition



25. Control system

- SYNTEC CNC control system and Operation Software, reliable and the process efficiency is 20%-25% faster



26. Excellent electrical components

- Electrical parts and components are in reliable brand, standard and clean wiring connection make machine reliability and stability.
- Air conditioner on control cabinet to keep electrical components always in proper working condition.



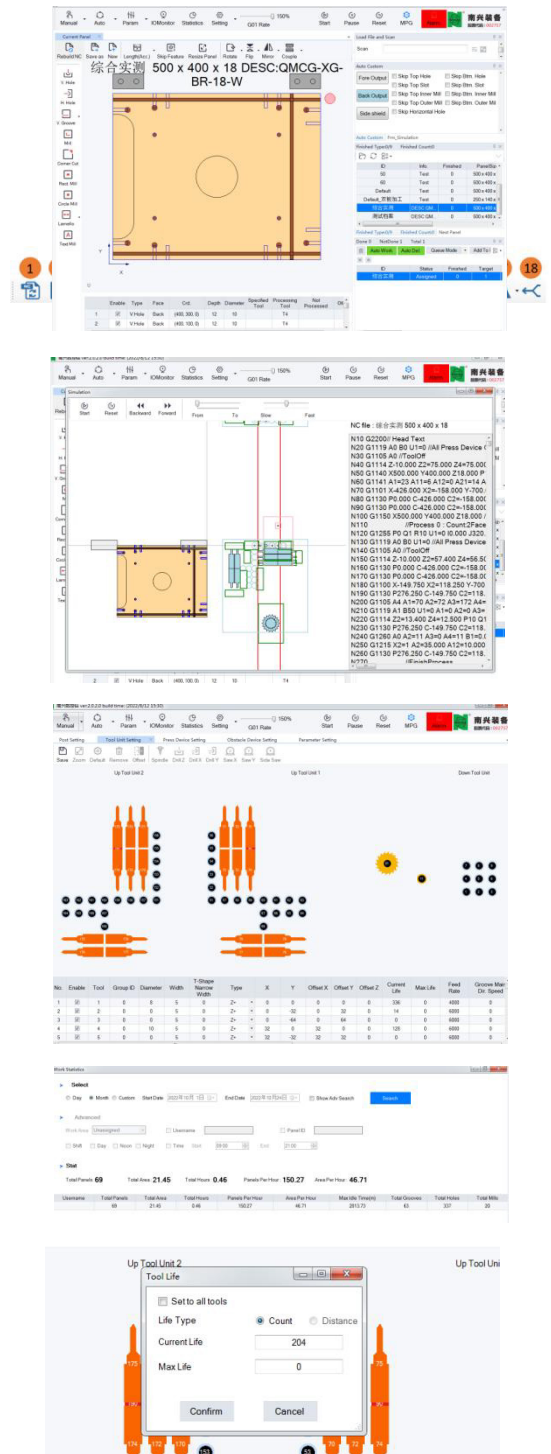
27. File format support.

- Open port to interface with furniture design software, support the file format: MPR, DXF, BAN, BPP, PDX; XML; XXL.



28. User-friendly operation

- Control interface is modern and friendly,
- Manual programming interface is easy to operate, functions are available at a glance like horizontal hole, vertical hole, grooving, flip, mirror, rotate etc.
  
- Simulation function
  
- Easy tools setting;
  
- Statistics function, production capacity is available at a glance
  
- Set tool life, software will remind when tool is time to change for smart tool management



Technical Data

Total power	52.36KW	
Machine size	7400 * 4,620 * 2,650 mm	
Power supply	380V/50Hz 3PH	
Air supply	0.6-0.7MPa	
Total weight	7,850Kg	
Control system	Brand	SYNTEC
Panel size	Length	250-2,800mm
	Width	250-650/1200mm
	Thickness	10-60mm
Max. traveling speed	(X/U) axis	135m/min
	Y axis	75m/min
	Z axis	30m/min
Transmission mode	X axis	Rack and pinion
	Y axis	Rack and pinion
	Z axis	Ball screw rod
Drilling blocks	Boring block qty	Top 2+2; Bottom 1+1
	Vert. drills qty (top)	19*4
	Horiz. drills qty (top)	X: 3×8 + Y: 2×4
	Vert. drills qty (Bottom)	9×2
	Max drill diameter	Φ35mm
	Drill spacing	32mm
	Rotation speed	5000rpm
	Shank diameter	Φ10mm
Main spindle	qty	4* ER25
	power	2*3.5kw;2*5.5kw max.18000rpm

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<b>Dust collector</b>	qty	4
	diameter	Top 200mm×4 Bottom 125mm×2
	speed	≥28m/min

\*Thanks for the attention!

The company continuous to improve the product specifications and design details, the specifications are subject to change without notice. 240715