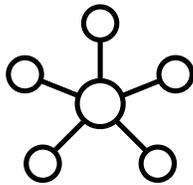


CNC 6-Sided Drilling Machine with Double Work Station



EASY APPLICATION
WITH OTHER
BRANDS



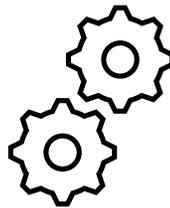
TOP OF THE LINE
QUALITY FOR LOWER
COST



EASILY REDUCE
MATERIAL
CONSUMPTION



SAVE ON LABOR FORCE
WITHOUT



ALL IN ONE
6-SIDED DRILLING,
GROOVING TOP +
BOTTOM, ROUNDING



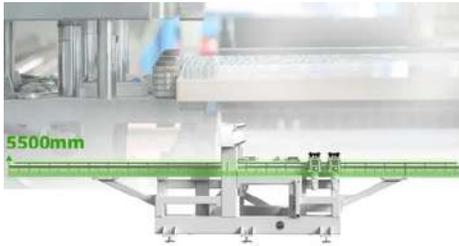
3 YEARS
OF WARRANTY

TECHNICAL 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

DESCRIPTION OF DELIVERY

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.

AUTO FEED-IN&OUT WITH SEPARATE AUTO POSITIONING



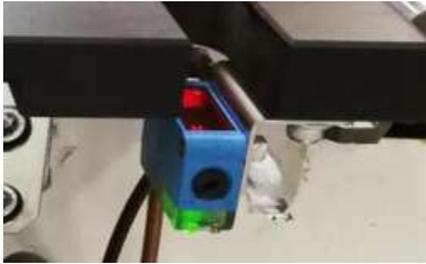
Each workstation has independent auto positioning device of servo control;



The hairbrush and conveyor belt on outfeed tables can offer very good protection to the surface.



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.
X direction board length detect

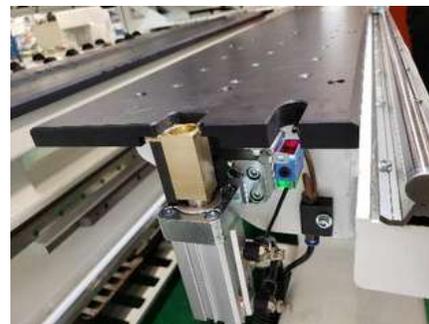


Board width detect&offset
Configured on drilling block to detect the board width and compensate the board width errors, so as to avoid the hole position error caused by different benchmarks. Accuracy is up to 0.02mm.

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



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.

TECHNICAL DETAILS

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

8+8 SLOTS TOOL CHANGER



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

TOOL SETTING GAUGE



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

INVISIBLE HARDWARE



Invisible hardware

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

SIDE GROOVING



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

SUPPORTING INFORMATION

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.

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

AUTO BAR CODE SCANNING

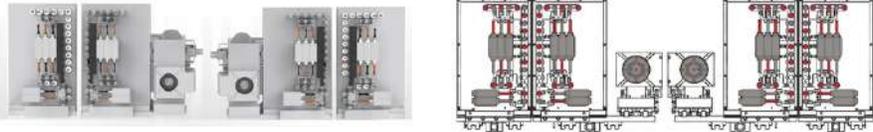


Auto scanning the bar code, machine will process automatically;
2 scanner ensures long panel can be read properly
Good quality of fast recognizing speed



TECHNICAL DETAILS

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

TECHNICAL DETAILS

ACCURATE MOVEMENT OF EACH AXIS



X and Y direction

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



Z direction

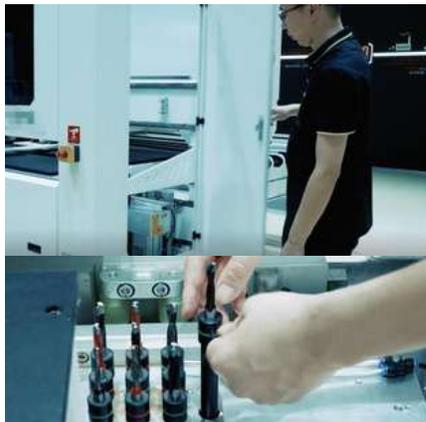
Ball screw rod gives the machine added precision in Z direction.



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

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.

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.

TECHNICAL DETAILS

MANUAL CONTROLLER WHEEL



Hand wheel makes commissioning more convenient.

E-STOP



E-stop

START BUTTON & FOOT PEDAL



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

DUST CONVEYOR BELT



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

SAFETY FENCE & LIGHT BARRIER



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

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. 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

CONTROL SYSTEM



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

EXCELLENT ELECTRICAL COMPONENTS



Electrical parts and components are in reliable brand, standard and clean wiring connection make machine reliability and stability.

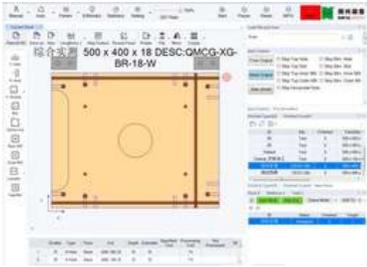
Air conditioner on control cabinet to keep electrical components always in proper working condition.

FILE FORMAT SUPPORT

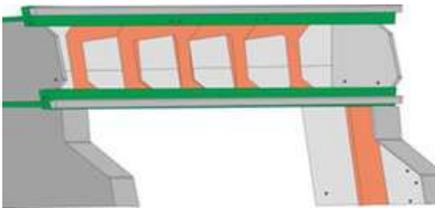


Support various file formats such as MPR, DXF, BAN, BPP, PDX; XML; XXL.

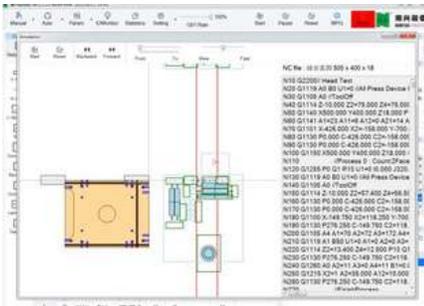
USER-FRIENDLY OPERATION



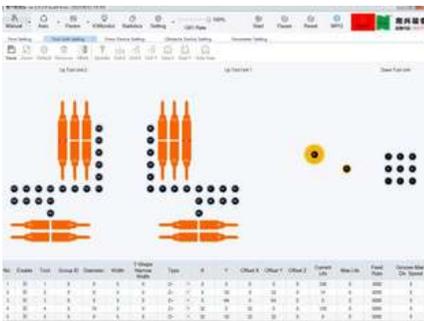
Control interface is modern and friendly, Manual programming interface is easy to operate, functions are available at a glance like horizontal hole, vertical hole, grooving, flip, mirror, rotate etc.



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

SUPPORTING INFORMATION

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
	W idth Thickness (X /U)	250-650/1200mm 10-60mm 135m/min
	axis Y axis Z axis X axis Y	75m/min 30m/min Rack and pinion Rack
Max. traveling speed	axis Z axis	and pinion Ball screw rod
	Boring block qty Vert. drills	Top 2+2; Bottom 1+1
	qty (top) Horiz. drills qty	19*4
Transmission mode	(top) Vert. drills qty	X: 3×8 + Y: 2×4
	(Bottom)	9 × 2
	Max drill diameter Drill	Φ35mm
Drilling blocks	spacing Rotation speed	32mm
	Shank diameter qty power	5000rpm
		Φ10mm
		4* ER25
		2*3.5kw;2*5.5kw max.18000rpm
Main spindle		

SUPPORTING INFORMATION

Dust collector	qty	4 Top 200mm×4
		Bottom 125mm×2
	di am e t e r	≥28m/min
	speed	