



南兴®

SPECIFICATION

Model:NCG2509

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CNC Machine

Model: NCG2509

Manufacturer: Nanxing Machinery

Original: Guangdong, China



Highlight:

- Economy PTP machining center with gantry design suitable for various factories, also in making customized furniture with a lot of drilling work;
- Moving to ends of X direction equipped with positioning robs, making dual working stations possible;
- Suction cups available in three sizes suitable for different panels, minimum panel width up to 50mm.
- Two working stations alternatively processing coordinate with 12 vertical drills, 8 horizontal drills making production higher efficient.
- Applying FCC software to the control system and integrated within machine to display graphical drawings, to show processing status, to edit graphical designs, to establish order files, and to carry out more other functions;



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Technical Data:

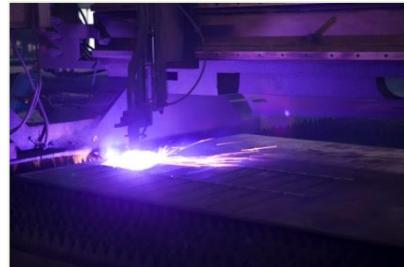
Working range	X-axis: 2,500 mm Z-axis: 150 mm	Y-axis: 900 mm
Working table	5pcs movable beam table, each has 2pcs suction cups. Size: 2500*900mm	
Max. traveling speed	X-axis: 70 m/min Z-axis: 20 m/min	Y-axis: 70 m/min
Main spindle	Number of main spindle: 1 Power: 6 kW Change tools manually	Rotating speed: 18,000 rpm
Drilling block	Power: 1.7 kW Vertical drills: 12 Horizontal drills (X) :2 + 2	Rotating speed: 4000 rpm Horizontal drills (Y): 2 + 2
Vacuum pump	Power: 5.5 kW Air cooling	Suction flow rate: 160 m ³ /h
Dust extraction	Outlet diameter: Φ200mm	Speed required: 28 m/s
Air supply	Air pressure required: 6-7 kg/cm ²	
Power supply	Voltage: 380V, 3-phase	Frequency: 50 Hz
Total power	18kw	
Floor space	L×W×H: 4,000×3,100×1,970 mm	
Net weight	2,600 kg	



Details:

1. Machine body

- Machine base is made of whole steel plate, and processed by advanced CNC milling machine for high stiffness and longer service life.



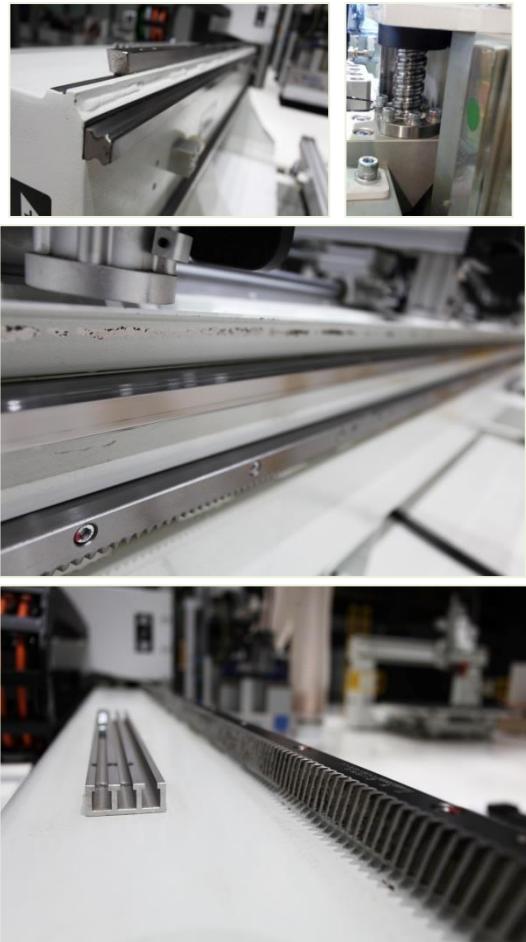
2. Transmission mode

- X and Y direction transmitted by high-stiffness rack and pinion, dual guide rails on upside and underside ensure the high precision, stability, smooth running and long service life.
- Ball screw gives the machine added precision in Z direction.

X-axis, rack and pinion;

Y-axis, rack and pinion;

Z-axis, ball screw.





3. Servo motor

- The accurate movement of each axis is ensured by the high quality servo motors.

X-axis, 1 kW ×2;

Y-axis, 1 kW;

Z-axis, 1 kW ×2.



4. Drilling unit

- Drilling block has:

12 vertical drills, 8 horizontal drills;

- Rotation direction: clockwise, counter clockwise;

- Diameter of drill shank: 10 mm;

Maximum borehole diameter: 35 mm;

Center distance of drills: 32 mm;



5. Main spindle

- Adopted high quality main spindle to cut or groove panels, offer longer service life.





6. Working table

- Table with 5 beams and 10 suction pods;;
- Moving to ends of X direction equipped with positioning rods, two working stations alternatively processing making production higher efficient, each minute 5-6 panels.



7. Suction pods

- Different kinds of suction pods can be easily set to lock panels of different shapes and sizes, minimum panel width even up to 50mm.



8. Positioning device for narrow panel

- Minimum Panel width even up to 50mm on the basis of a positioning device, which is special designed for narrow panels, available to be opened while narrow panel putting on the working table.





9. Safety device

- Light curtain safety device is divided into two areas, if operator enters into one area to put panel on one working station, doesn't affect the normal processing in the other area, so as to ensure personal safety during two working stations alternatively processing.



10. Vacuum pump

—Power: 5.5 kW

—Suction flow rate: 160 m³/h

—Air cooling



11. Automatic lubrication

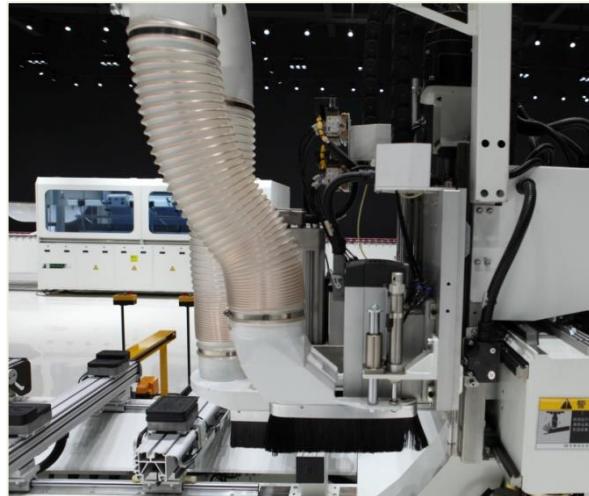
- The machine is equipped with lubrication system that reduces the need of maintenance by operators.





12. Dust extraction

- Designed professionally with two individual hoses for drilling unit;
- Hose diameter: Φ200mm;
- Number of outlet: 1
- Required suction speed: 28 m/s.



13. Drag chain

- Used to drag and protect electric wire and air tube during main spindle moving in X direction.
- Keep electric wire and air tube in order.



14. Electric equipment

- Independent electric cabinet with air-condition;
- Operation panel for choosing working station.
- SYNTEC control system;
- IPC with Windows operating system;
- DELL display;
- USB port;
- Scanner gun.





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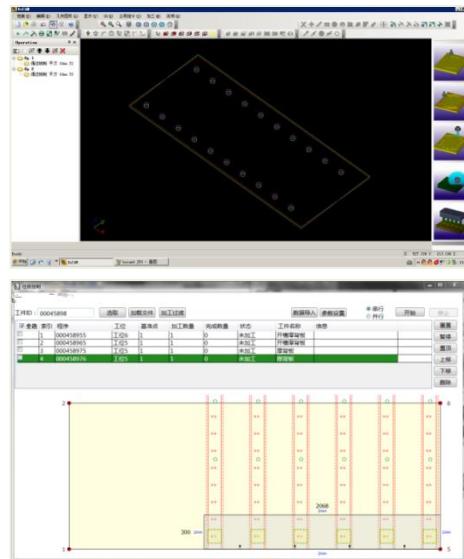
15. Control system

- SYNTEC control system provides stable performance, powerful functions and ease of use.
- English and Chinese are available.



16. Software

- The NanxingCAM software generates and output NC codes according to the input drawing and processing paths, it is more accurate and efficient;
- Applying FCC software to the control system and integrated within machine to display graphical drawings, to show processing status, to edit graphical designs, to establish order files, and to carry out more other functions.



* Due to the continuous improvements of our products, some changes for better machine may apply! (No.70411)



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