

CNC Nesting Machine NCG2812E

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Description

NCG2812E with 4 high-speed main spindles is able to meet various processing requirements like nesting, grooving, top side boring and unloading. Max. speed along X & Y direction up to 50m/min. IPC control with window 7 operation system of high stability and ease of operation. Unloading pusher provides max. convenience for collecting work pieces after processing.

Details

1. Machine body

- Bed structure of machine body is welded with steel tubes by combination of labor and robots for better welding joints& lines. Metal work through advanced CNC machine increases the precision, hence enhances the stability & strength, reduce the vibration in the process.
- Some casting parts used on the machine guarantees long service life without deforming.



2. Movement of each axis

X and Y direction

- Transmitted by high-stiffness miter rack and pinion, dual guide rails on upside and underside ensure the high precision, stability, smooth running and long service life. Working range of X-axis is 1230mm, Y-axis 2800mm;



Z direction

- The precision of Z direction counts for much more for processing accuracy. The use of ball screw gives the machine added precision in Z direction. Working range is 200mm;



Motor

- The accurate movement of each axis is ensured by the high quality servo motors. X axis: 1.5kw*2; Y axis: 1.5kw Z axis: 1kw
- Max travelling speed: X/Y/Z: 50/50/20m/min.



1. 4 main spindles

- 1 pc 6kw high-speed main spindle for cutting and grooving, 3 pcs 3.5kw mainly for boring work, cooperated well for higher efficiency and various processing requirements.
- Dust collector $\varphi 200\text{mm}$



2. Working table

- The dimension 2800*1220mm is suitable for most production requirements.
- The crisscrossed grooves provide excellent vacuum sorption effect. 4 Vacuum areas controlled independently by manual valve, so that operator could open or close the vacuum area according to the actual work piece size;



3. Vacuum pump

- 1 pc 7.5kw air cooling vacuum pumps with suction flow rate 250m³/h for high-performance sorption on the table.



4. Side positioning device

- 3 pcs positioning device on each side of X direction can rise automatically to fix big panel in the process for higher precision.



5. Unloading pusher

- Unloading pusher to push out the work pieces after processing, saves time and labor effectively



6. Manual lubrication system

- Grease the main components guarantee the smooth running and longer service life.



7. Drag chain

- High-quality drag chains protect and organize electric wire and air tube during moving in each direction results in longer service life.



8. Easy debugging with hand wheel

- Hand wheel makes debugging more convenient.



9. Indicating light

- Adopted imported operation indicating light, the operation status of the machine is available at a glance.



10. Control Cabinet

- IPC with Windows operation system
DELL display
USB port
- Main electric components are of world famous brand for higher performance.



11. Control System

- Intelligent control system is stable and software with simple interface is ease of operation.



Technical Data

Control system	4 spindles controller	
Working range	X-axis: 1,230 mm	Y-axis: 2,800 mm
	Z-axis: 200 mm	
Working table	Size: 2,800×1,220 mm	Height: 800mm
Max. traveling speed	X-axis: 50 m/min	Y-axis: 50 m/min
	Z-axis: 20 m/min	
Main spindle	Quantity: 4	
	Power: 6kw*1; 3.5kw*3	Rotating speed: 18,000 rpm
Servo motor	X axis: 1.5kw*2	Y axis: 1.5kw
	Z axis: 1kw	
Vacuum pump	Quantity: 1	
	Power: 7.5 kW	Suction flow rate: 160 m ³ /h
Dust extraction	Outlet: Φ200mm*1	Speed required: 28 m/s
Air supply	Air pressure required: 6~7 kg/cm ²	
Power supply	Voltage: 380V, 3-phase	Frequency: 50 Hz
Control system	Syntec	
Total power	30 kW	
Floor space	L×W×H: 4,000×2,600×2,300 mm	
Net weight	2,100 kg	

**Thanks for the attention!*

The company continuous to improve the product specifications and design details, the specifications are subject to change without notice. 80731