



Panel Dividing Saw NPC330

Nanxing Machinery
Guangdong China



Description

- ✓ Saw carriage by 2kw servo motor and moved via rack and pinion automatically moved to fit based on the width of panel, reduces travel distance. Max cutting speed up to 90m/min, backward speed up to 120m/min;
 - ✓ Pressure beam automatically self-adjusted according to the total height of panels, to shorten the travel range, hence higher efficiency;
 - ✓ Powerful software so easy to use, including managing the work process with detailed reports, simulating cutting patterns, showing any error message, printing bar code and many more advantages, also user friendly HMI, making whole machine much reliable.
 - ✓ 90mm cutting height, working width 3270mm,
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Details

1. Machine body

- Heavy duty machine body is welded by robots line, welding mark's distance is strictly same, ensure the strength is even for higher stability, reduce the vibration in use.
- Frame body pass the **heat treatment** and **vibration aging treatment** to guarantees the whole service life without deforming. 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.
- Heavy duty machine body in stable bridge structure, total weight of machine is up to 6500kg.



2. 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.



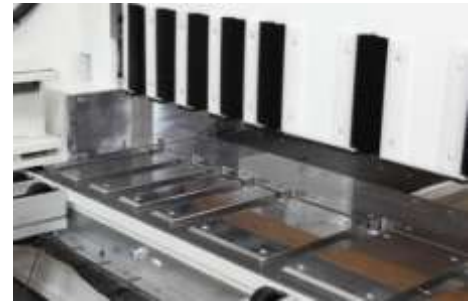
3. Quality control

- Advanced measuring equipment and strict QC system help to make sure the machines and parts are checked and certificated by very high standard.
- All the machines are delivered with Quality Certificate signed by QC specialist.



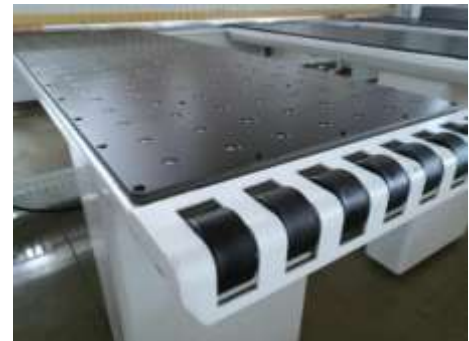
4. Steel table plate

- High stiffness steel plate with long service life, precision up to $\pm 0.03\text{mm}$, reducing the possible maintenance costs.



5. Air float feed table 1No.

- Full of air steel balls on table surface makes movement of work pieces smooth, reduce scratches on panel surface, the black table plate is rigid and wear proof for longer service life.
- Separate 3 pipes connected to 3 float tables with a 2.2kw air blower beneath the table supplies sufficient air. Flow rate: $5.2\text{m}^3/\text{min}$.



6. Side operation rod

- An extra operating rod on side guarantees the continuous cutting, operator could start the cutting without approaching the IPC in the process.



7. Pressure beam

- Pressure beam automatically self-adjusted according to the total height of panels, to shorten the travel range, hence higher efficiency.
- Single pressure beam makes evenly pressure applied on the whole work piece surface, increase the pressure apparently, thus reduce the chipping of work piece edge
- Movement of pressure beam by precise rack and pinion on both sides.



8. Hand protector

- A protective device will fall down before cutting, and rise after cutting, machine would stop emergently if there is something underneath, that keeps operators from hurt.



9. Piano dust cover

- Piano type dust cover provides a completely enclosed blade guard and prevents flying dust and chips.



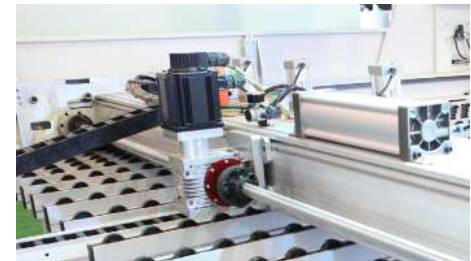
10. Servo side alignment

- Device fixed within saw carriage to push from side of board when running to cut, even for thin and soft board, at the same time to guide alignment for perfect square cut.



11. Gripper

- Firm joist steel supporter on both sides, precise positioning.
- Pneumatically controlled 10 grippers to fix work piece tightly without displacement during feeding, improving cutting precision effectively.
- Accurate and smooth movement of feeding unit is ensured by 2kw servo motor and long rack and pinion on both sides. Gear box with good brand.



- Fully covered and wide roller bracket provide good support and avoid dust;
- Max traveling distance: 3200mm;

Max cutting width: 3270mm

Max speed: 85m/min;



12. Anti- dropping device.

- The design prevents saw carriage from struck due to small work piece dropping, hence guarantees the stable working of saw carriage.



13. Integrated saw carriage

- Max.cutting height 120mm. Main saw motor is 18.5kw
- Saw carriage by 2kw servo motor along rack and pinion, automatically moved to fit based on the width of panel, reduces travel distance. Max forward speed up to 90m/min, backward speed up to 120m/min.
- Both main saw and scoring saw with independent movements of up and down, also main saw automatically self-adjusted minimizing the lifting height for efficiency besides making best finish. Guiding rail with Germany brand for better stability.
- Quick exchange of main saw blade, ideal design for operator.

⚙ Main saw, 4500rpm/min,
inner ϕ 60mm outer ϕ 450mm

⚙ Scoring saw is 4300rpm/min
inner ϕ 45mm outer ϕ 200mm

Saw blade cover

- Saw blade cover with dust outlet to prevent the dust

Tip: Saw blades are included.



14. Full covered fence

- Safer for operator



15. Dust collection

- Reduce flying chips and dust, convenient working condition contributes to extend service life.
 ϕ 150mm*3



16. Automatic lubrication system

- The automatic lubrication system greases the main components automatically that reduces the need of maintenance by operators.



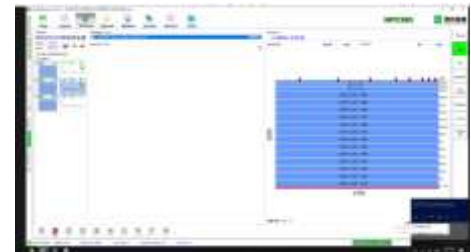
17. Machine control

- Computer: CPU i5 Memory 8G, WIN7 64-bit Professional Edition, Chinese /English system, Dual network port
- Operating system: Win7
- Monitor size: 21.5 inch



18. Operation software

- Powerful software so easy to use, including managing the work process with detailed reports, simulating cutting patterns, showing any error message, printing bar code and many more advantages, also user friendly HMI, making whole machine much reliable.
- Additional function for re-work of any particular piece (scanner optional), a good helper for customized furniture production, completely solved problem raised from possible setting mistakes and occasional errors caused by operator.



19. Control cabinet

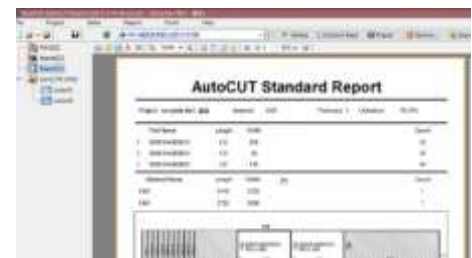
- Most of electric components of the machine are international brand for high quality and generality.



Option

1. Optimizing software Auto CUT

- Professional optimizing software equipped within machine for high handling efficiency and convenient operation, other worldwide popular software also possible to be applied.
- Report function
- Can be used on machine and in office



2. long air floating tables 2Nos.

- Provide more support to panel



3. Label Printer

- Boards, order information are available at a glance with a label on each board, ease following job,
- printer is able to print the labels based on the cutting automatically





4. Servo grooving function

- Main saw up and down by servo results accurately grooving.



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- **5. Air conditioner on control cabinet**
Control the electrical cabinet temperature in proper status for longer service life which is especially suitable for high-temperature environment.





Technical Data

Cutting	Max. cutting length	3,270mm
	Max. cutting thickness	120mm
Main saw	Motor power	18.5kw
	Rotating speed	3,910rpm/min
	Saw blade diameter	Φ450mm
	Saw blade shaft diameter	Φ60mm
Scoring saw	Rotating speed	4,300rpm/min
	Saw blade diameter	Φ200mm
	Saw blade shaft diameter	Φ45mm
Saw carriage	Motor power	2.2kw
	Forward speed	90m/min
	Backward speed	120m/min
Feeding	Automatic feeding motor	2kw
	Max. feeding speed	85m/min
IPC	21.5" Windows 7	
Air Requirement	0.6 MPa	
Dust extraction	Φ150mm*3;	28m/min
Power supply	415V/50Hz/3P	
Power	Total power	27.7kw
Overall size	Length *Width *Height	6,900 x 5,400 x1,820mm
Net weight	4,850kg	

**Thanks for the attention!*

The company continuous to improve the product specifications and design details, the specifications are shown here subject to change without notice. 260409