WOOD TECH NPC380 BEAM SAW

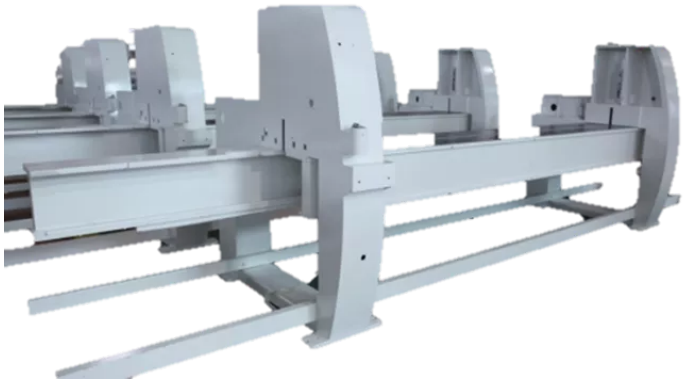
Saw carriage with 2kW servo motor, moved via rack and pinion system, automatically moved to fit based on the width of the panel, which reduces travel distance. Max forward speed up to 90m/min, backward speed up to 120m/min.

Pressure beam automatically self-adjusted according to the total height of panels, to shorten the travel range, hence higher efficiency.

Powerful software making it easy to use, including management of the work process with detailed reports, simulated cutting patterns, showing any error message, printing bar code and many more advantages. User-friendly HMI, making the whole machine much more reliable.

MACHINE FRAME

Machine body constructed by high tensile strength steel, towards best finish by advanced welding with robots, further underdone with heat treatment, finally completed by CNC 5-axis milling to perfect precision, to ensure its highest quality and durability.



PROFESSIONAL ASSEMBLY LINE

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

QUALITY CONTROL

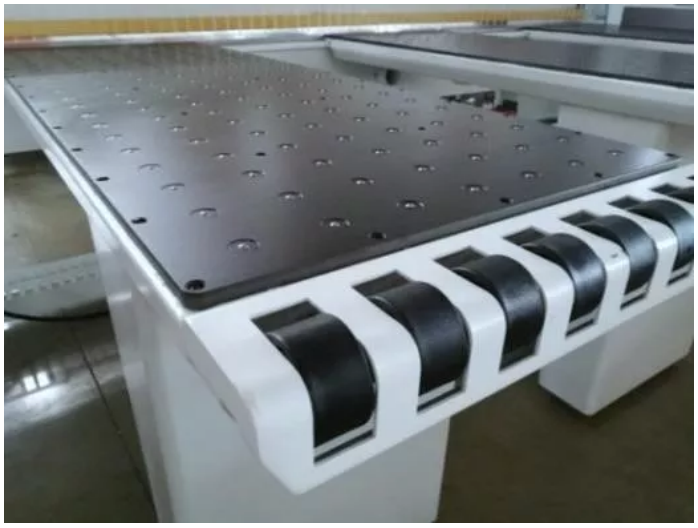
Advanced measuring equipment and strict QC system also help to make sure the final machine we offer to our customers are of high quality.

STEEL TABLE PLATE

High stiffness steel plate with long service life, precision up to ±0.03mm, reducing the possible maintenance costs.

AIR FLOAT FEED TABLE

Full of air steel balls on table surface with a fan ensures a constant ease of panel stacks movement, the black table plate is rigid and wear proof for longer service life.

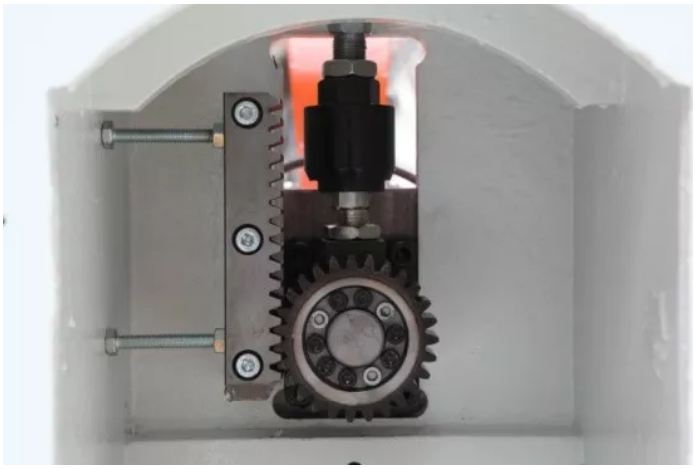


Separate 3 pipes connected to 3 float tables with a 2.2kw air blower beneath the table supplies sufficient air.

Flow rate: 5.2m3/min.

SIDE OPERATION ROD

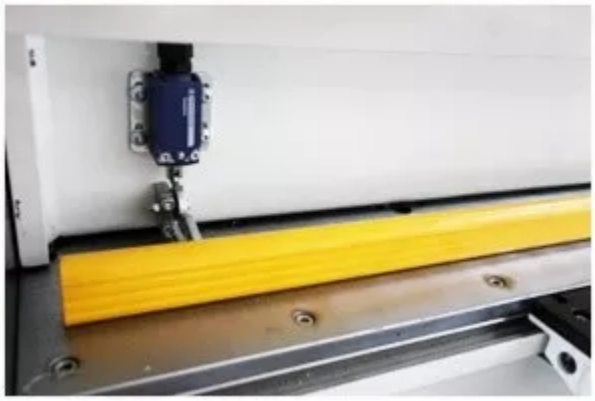
An extra operating rod on side guarantees the continuous cutting, operator could start the cutting without approaching the IPC in the process.



Movement of pressure beam by precise rack and pinion on both sides.

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.

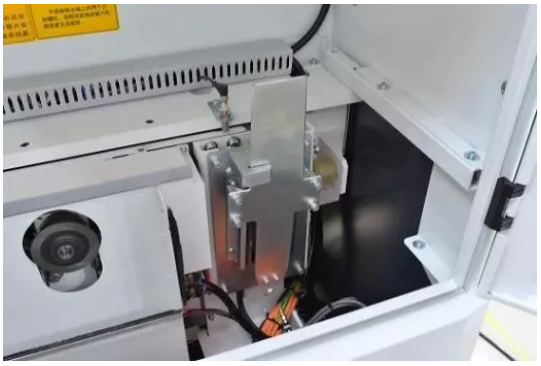


PIANO DUST COVER

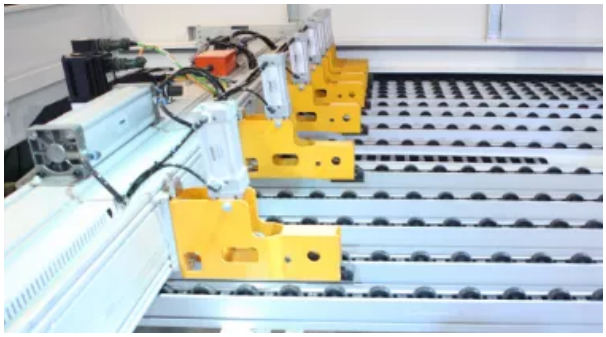
Piano type dust cover provides a completely enclosed blade guard and prevents flying dust and chips.

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.



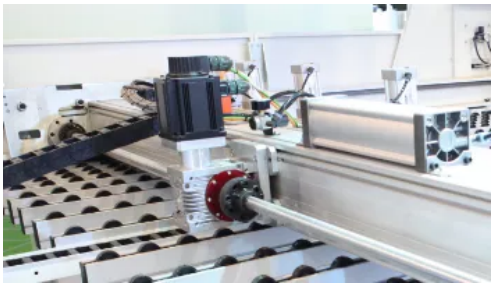
GRIPPER



Firm joist steel supporter on both sides, precise positioning.

Pneumatically controlled 9 grippers (standard configuration); Option with 13 pcs grasp 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 German brand.



ANTI-DROPPING DEVICE

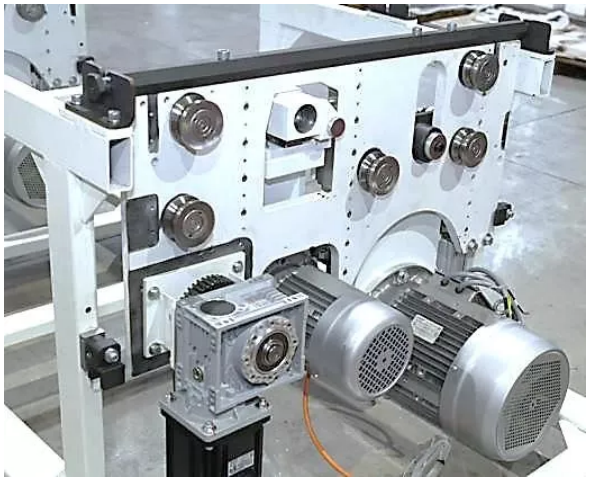
The design prevents saw carriage from struck due to small work piece dropping, hence guarantees the stable working of saw carriage.

SAW UNIT

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 German brand for better stability.

Quick exchange of main saw blade, ideal design for operator.



Main saw is 15kw, 4500rpm/min, inner φ60mm outer φ380mm

Scoring saw is 4300rpm/min, inner φ45mm outer φ200mm

DUST COLLECTION

Reduce flying chips and dust, convenient working condition contributes to extend service life.

3 x 150mm Diameter

AUTOMATIC LUBRICATION SYSTEM

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

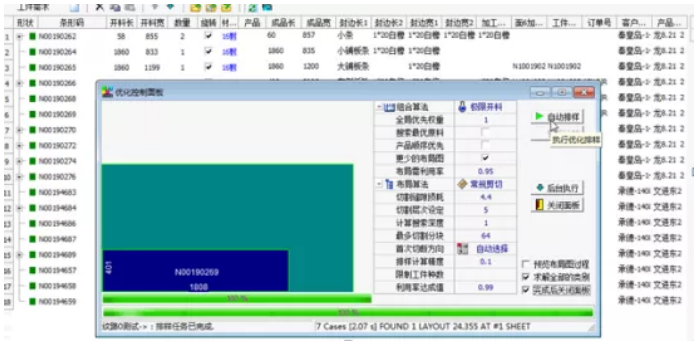
MACHINE CONTROL

User-friendly HMI IPC coordinated with USB interface, network card, mouse and keyboard for easy operation; Chinese and English are available.

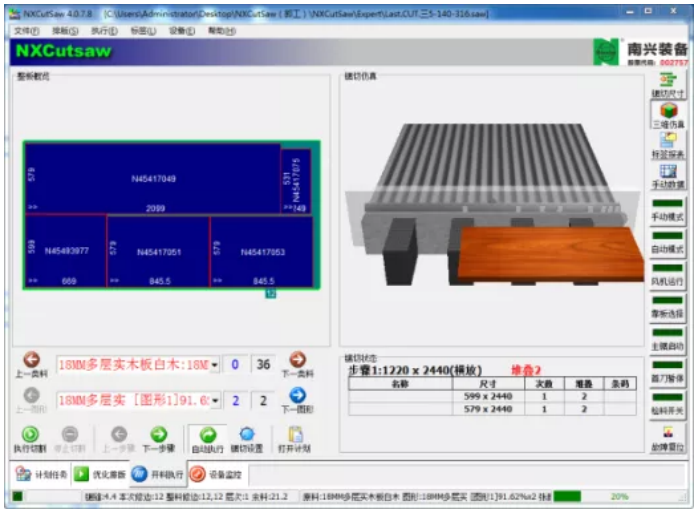
Controlled by PLC Windows operating system and professional computer saw cutting software.

OPTIMIZING SOFTWARE - NXPARETO

Professional optimizing software equipped within machine for high handling efficiency and convenient operation, other worldwide popular software also possible to be applied.



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.

CONTROL CABINET

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

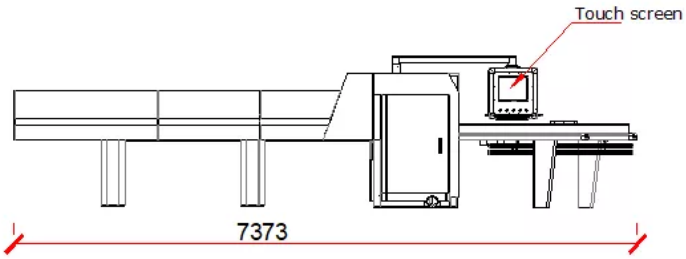
PRINTER

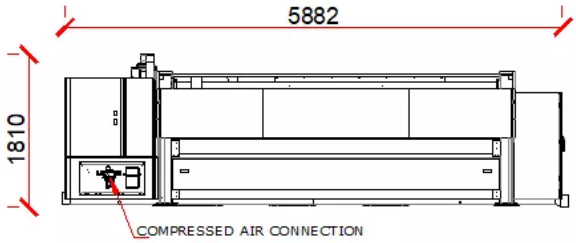
Label Printer used for part identification.

TECHNICAL SPECIFICATIONS

Cutting	Max. Cutting Length	3,800mm
	Min - Max. Thickness of Panel	3mm - 90mm
Main Saw	Motor Power	15kW
	Rotating Speed	4,500rpm/min
	Blade Diameter	Φ380mm (maxΦ400)
	Blade Shaft Diameter	Φ60mm
Scoring Saw	Rotating Speed	4,300rpm/min
	Blade Diameter	Φ200mm
	Blade Shaft Diameter	Φ45mm
Saw Carriage	Motor Power	2kW
	Forward Speed	90m/min
	Backward Speed	120m/min
Feeding	Auto Feeding Motor	2kW
	Max. Feeding Speed	85m/min
IPC	15" Windows Control	USB port x4
Air	0.6 Mpa	
Dust Extraction	3 x Outlets - 150mm Diameter	28m/min
Power	23kW	
Overall Size	LxWxH	7380mm x 5900mm x 1810mm
Net Weight	6,600kg	

LAYOUT


Touch screen
7373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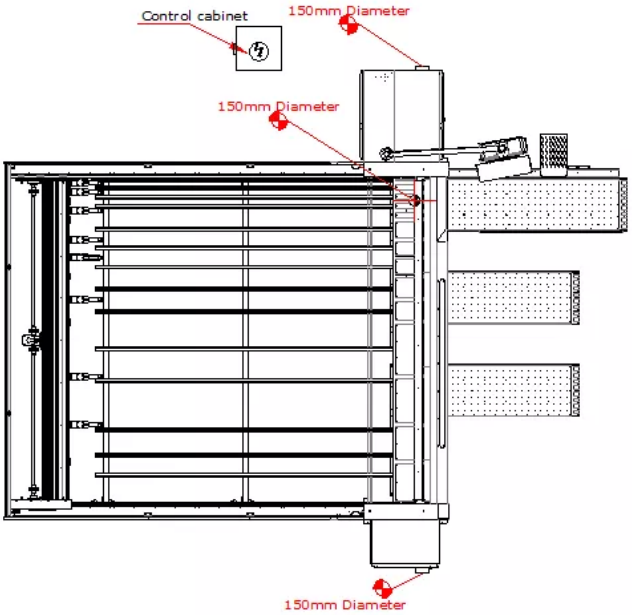
1810
COMPRESSED AIR CONNECTION


Control cabinet
150mm Diameter
150mm Diameter
150mm Diameter


WOODTECH