

Intelligent Edge Banding Machine

NB870HM(NB9-Smart)

[Customize version: no rough trimming, with corner rounding&grooving]



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3-year warranty*
ensuring no hassle
and unforeseen costs



Quick return on
investment



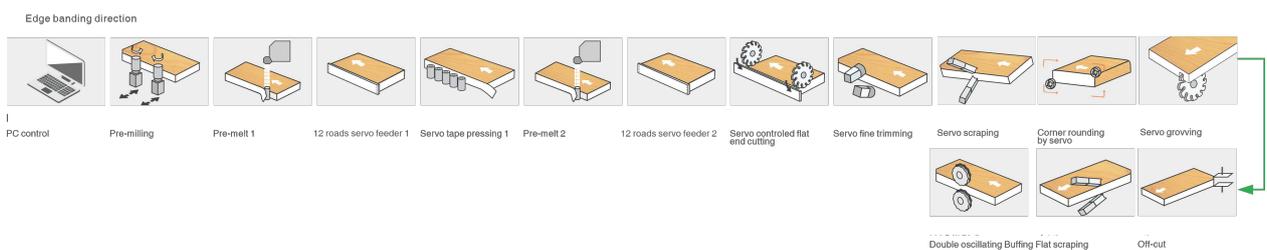
Low Total Cost of
Ownership



Ensuring low price
by sourcing cleverly
in large quantities

Description

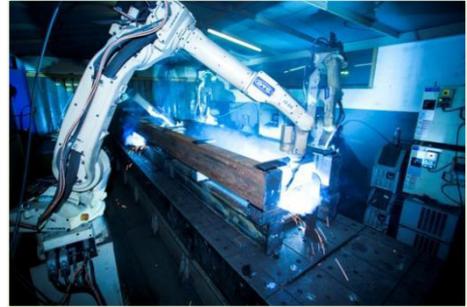
Heavy duty machine with steel beam on top and bottom. the fully automatic servo adjustment system--The aligning fence, tape feeding, tape pressing, end cutting, fine trimming, scraping, servo corner rounding, bottom grooving are all adjusted by servo motors, plus 2 sets pre-melt gluing, 2 sets 12+12 multi-tape changing system to achieve fast and easy switching based on the type of glue, color, thickness of the edge tape [R1, R2,R1.5], which make your production with intelligence, higher reliability and convenience. High speed-max 32m/min with corner rounding;



Details

1. Machine body

- The heavy duty machine frame and guide rails are integrally welded together, with the entire structure machined to ensure precision and better stability. After undergoing rigorous processes such as robotic welding, natural aging, annealing, and shot blasting, the stability of the machine body is guaranteed for long-term use.



- 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.



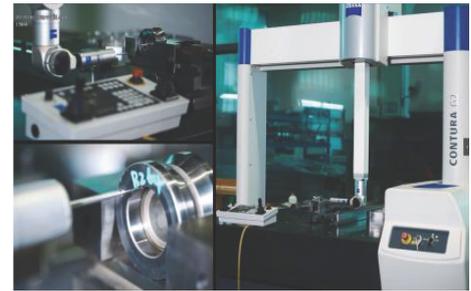
2. Professional assembly line

- Nanxing follows the SOP and set up the professional assembly lines. All the assembling is worked out by the experienced technicians that guarantee machine standardization and performance.



3. Quality control

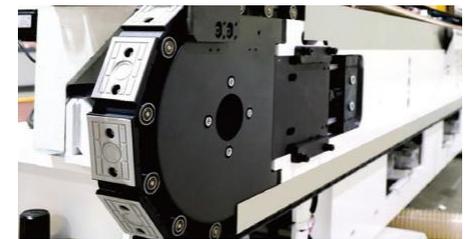
- Advanced measuring equipment and strict QC system help to make sure the machines and parts are checked and certificated by very high standard.
- All the machines are delivered with Quality Certificate signed by QC specialist.



4. Conveyor

Rolling chain

- Specially made heavy duty rolling chain design, provides higher stability at high speed.



Siemens Conveyor Motor

- Siemens conveyor motor makes variable frequency starting possible, quiet, very stable and equipped with braking system, ensure the high accurate of the conveyor system to suit both light loading, and heavy loading status;.



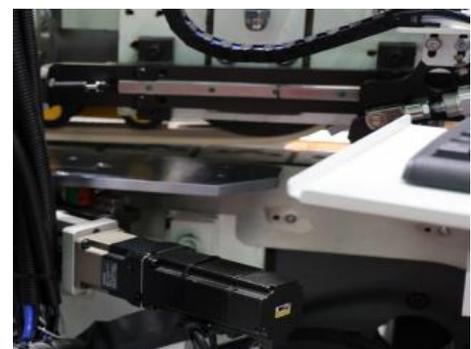
Conveyor bracket

- Stretched conveyor bracket with compact rollers helps to support large work piece in the process which avoids the influence caused by unbalance of large work piece;



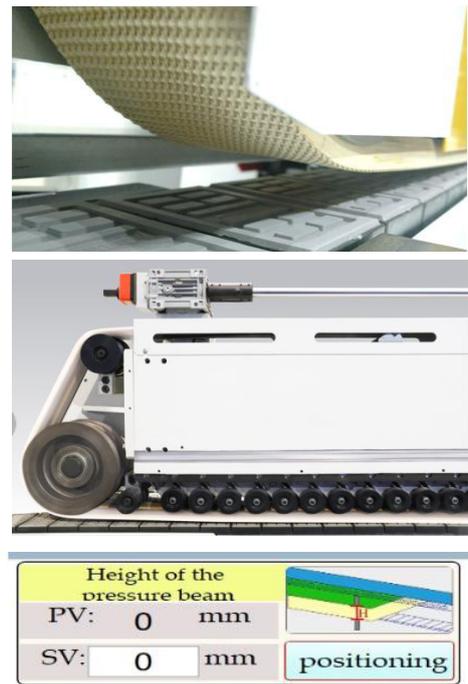
5. Infeed aligning fence by servo adjustment

- Trimming volume can be adjusted automatically with the servo adjusting infeed aligning fence.



6. Top presser

- Dual V-shaped belts to ensure the ideal clamping degree during workpiece processing, laying the foundation for superior quality.
- Pressure beam of heavy duty integrated **steel structure**, welded with machine body and rail together, boards' conveying straightness is better, enable pressure force to be allocated evenly from front to the end but without deformation. High stability and pressing accuracy even if in high speed and long time usage;
- The height of pressure beam is able to adjust by electronic regulator, its movement driven by asynchronous motor, controlled by encoder that is available to operate on PC.



7. Side assistance rollers

- Several groups of additional rollers to help to press the panel when trimming.



8. Support columns

- With high rigidity and strength, pressure beam and the whole machine could be fixed and adjusted firmly.



9. Spraying device (release agent)

- Spraying release agent on workpiece surface reduce the adhere of glue.



10. Pre-milling

- Pre-milling with diamond cutter 35mm in height, milling the work piece edge before gluing offers optimum basis of binding effect.
- Two motors controlled pneumatically, milling panel edge intermittent. 2× 3.7kW motors; 200Hz Rotating speed: 12,000 rpm.



11. 2 sets of pre-heating

- Warm the work piece edge, the glue could well melt during gluing, especially suitable for wet or cold zones.



12. 12+12 tapes Edge tape feeder by servo

- Compared with traditional edge tape feeder, higher trimming precision controlled by servo motor, cost saving up to RMB 20-50K per each machine due to shorter hanging out of tape at two ends. Standard machine has edge tape detector.
- Two sets of 12 tapes changing system make it easy to switch between two color glue, auto changing to next position if no tape in current storage that ensures the machine continuously working without stopping.
- Pre-tape pulling device to pre-pull the tape to feed tape in time under high speed;



13. Snipping×2

- Air cylinder with electric control switch of snipping unit is capable of mass production requirements.



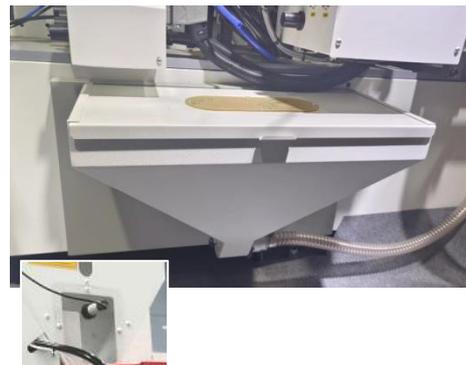
14. 2 sets Pre-melter gluing system

- 2 sets gluing units make it fast to switch glue color;
- Pre-melt gluing system has a glue tank on top to offer proper glue volume according to processing, save heating-up time, and a small glue pot on bottom, thus reducing the carbonization and vulcanization from burning up of glue resins, keep glue always fresh.
- Liquid level sensor detection device controls the glue amount accurately so as to prevent overflow.
- Just one screw to release and install glue pot, 60mm high gluing roller, 50mm diameter gluing roller, more glue supplying suitable for mass production, long parts and least glue line.
- Sliding seat, easy to switch between pre-melter and PUR device. (PUR device is option)
- Separate glue temperature control



15. Auto glue pumping + 25kg glue basin *2

- Max 25kg capacity basin, glue would be pumped to pre-melt system's upper pot automatically as soon as lower than level sensor.



16. 2 sets Pressure roller with servo adjustment

- One pre-pressure roller with a diameter of 100mm plus 4 post rollers to press edge tape on panel surface firmly. Pressure regulating valve 1.5~2.5 bar.
- Scraper on front 2 rollers to remove the glue left on rollers;
- Front and back adjustment is by servo



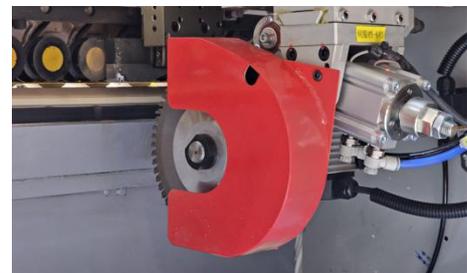
17. Auto lubrication system

- Auto lubrication system greases end cutting and corner rounding unit's linear bearing and rail could meet the requirement of daily maintenance, easy operation and save labour; 7
- Electrical control



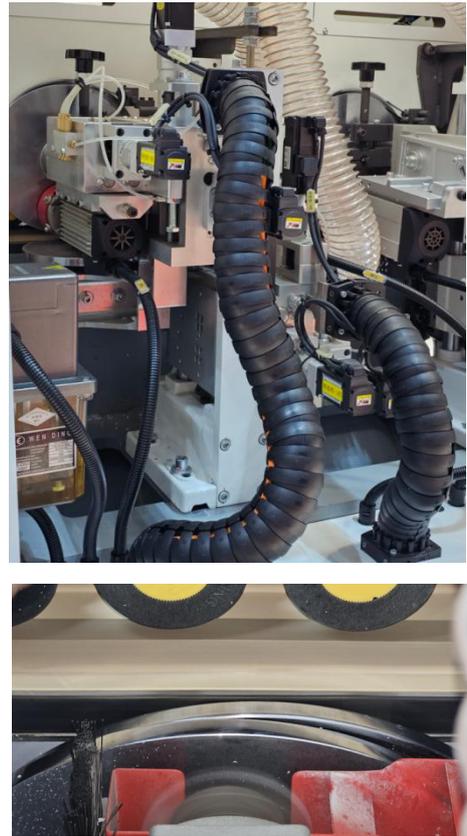
18. Flat end cutting by servo

- Flat end cutting design, servo traces the boards end precisely and each saw blade takes care of one end saves waiting time, shorten boards distance hence higher productivity and stability.
- Linear bearing, cable chain and components are in good brand for longer service life;



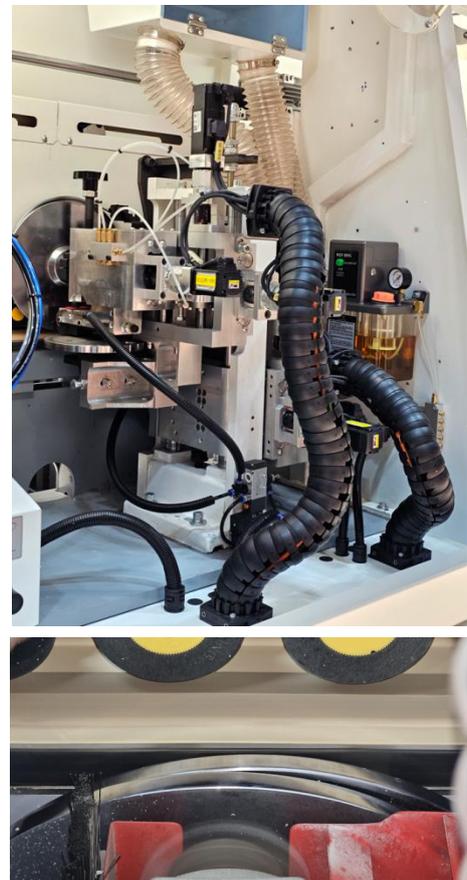
19. Fine trimming with servo adjustment

- Driven by 2 motors (power: 0.5kw*2; frequency: 200 Hz, rotating speed: 12000rpm/min).
- The motor and tracing rollers are placed horizontally, The upper , lower tracing roller, and motor mechanism are servo-adjusted in three directions, with the upper and lower plates pressed by air spring pressure, ensuring constant pressure. It can be equipped with R1.0, R1.5, R2 multi-edge pagoda blades, where a single blade meets different radius requirements 8
- Different R's switch by servo, precise and quick;
- Double-layer tracing roller design, offers a transition when boards come, more stable for high speed processing;
- The motor connection adopts aviation plug, disassembly and maintenance are quick and convenient;



20. Scraping with servo adjustment

- Servo adjustment is designed for fast switch based on tape thickness resulting shorter setting up time, stable quality, max convenience and higher productivity.
- The tracing rollers are placed horizontally, The upper , lower tracing roller are servo-adjusted in three directions, with the upper and lower plates pressed by air spring pressure, ensuring constant pressure. It can be equipped with R1.0, R1.5, R2 multi-edge pagoda blades, where a single blade meets different radius requirements, servo fast switch;
- Double-layer guiding roller design, offers a transition when boards come, more stable for high speed processing;



21. Corner trimming with servo adjustment

- High accurate and pneumatic quick change of tool.
- Motor power: 0.5kw+ 0.5kw, tool R1.5, 12,000 rpm/min.
- The Max. Speed can be **32m/min.**
- Delta
- **HSK32** tool connection of more contact between tool blade and edge results in better finish without wave even if under high speed;



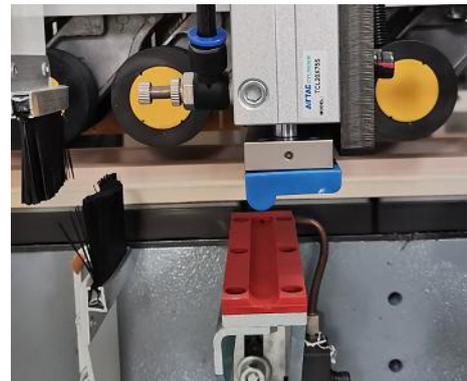
22. Servo grooving

- The servo system automatically switches the grooving distance and depth, and the saw blade is a 180mm diamond saw blade of longer service life.



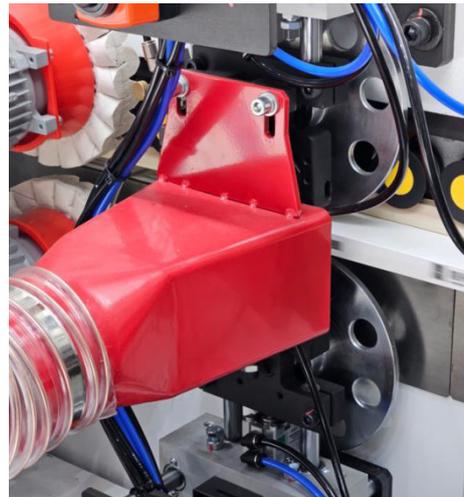
23. Off cut device

- Off cut device solve the tape silk threads from scrapping, as to prevent any problem later during flat scraping and buffing.



24. Pneumatic flat scraping

- Remove extra glue line on parts' surface for perfect banding effect.



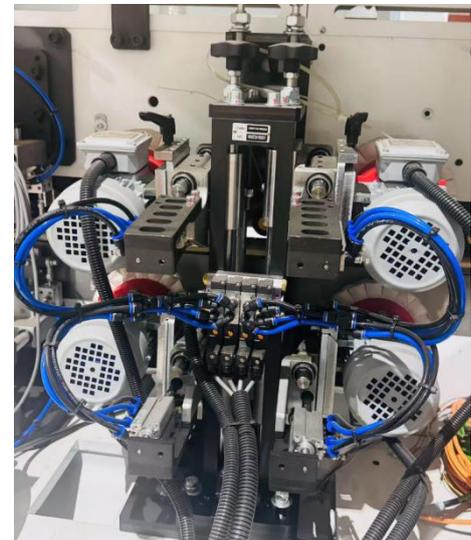
25. Spraying device (clean agent)

- Clean board surface for the perfect edge.



26. 2 sets Oscillating Buffing

- Oscillating buffing for 2 color glue, prevents the premature wear-out of buffing wheels due to localized abrasion, commonly seen in conventional buffing units, and effectively enhances the edge banding results. offering longer life time. 10
- Driven by continuous current dynamo, more stably.
- Motor: 0.37kw*2
- The quick-release structure allows for convenient and swift replacement of the buffing wheel.



27. Dust collector

- Independent suction hood (φ125mm) fully covered on processing units, dust collectors provides excellent working condition, prevent any influence caused by scraps for longer service life.



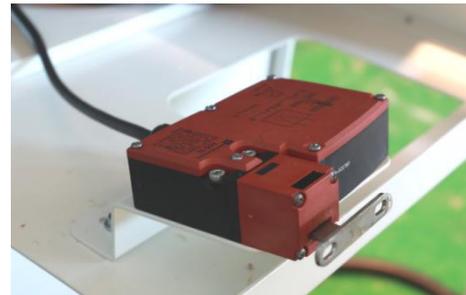
28. Soundproof foam

- Cover doors are equipped with soundproof foam to reduce the noise;



29. CE Safety Door Lock

- Cover doors are equipped with safety door lock maximize the operator's safety.



30. Hand controller and indicator light

- A hand controller provides the max. convenience to adjust or test the machine.
- Operation indicating light, the operation status of the machine is available at a glance.



31. Safety device

Feeding protector and thickness detection

- Protector prevents any possible accidents and ensures safety of operators, automatic monitoring abnormal operation.
- Work piece thickness detection, if work piece thickness over the limited position, conveyor will stop at once to reduce machine damage.

Interval feeding detection system

- Keep work pieces in proper distance for max edge banding performance.

E-STOP

- To stop running at once, guarantee operator life safety.



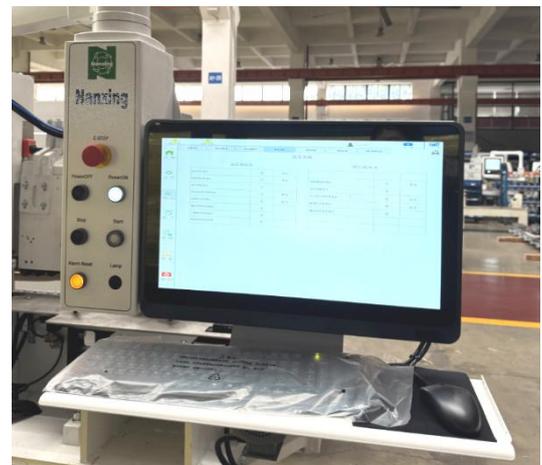
32. Electric components

- PLC, input voltage, 3-380v, 50Hz (Standard). Frequency converter with motor braking function;
- Phase sequence protector;
- All the electrical components of facilities confirm to relevant national standard.
- Permitting to be operated under the temperature of 0-40°C.



33. PC control

- PC intelligent control enables automatic switching of edge bands, glue pots, fine-trimming, scraping through scanning codes (scanning code optional);



34. User-friendly interface

- Operation interface is intuitive and simple, available to control each component independently easy for testing and commission work.
- Up&down of pressure beam, edge tape changing, machine distance could be operated by just one button. System languages: English and Chinese.
- Formula function, easy to set up;



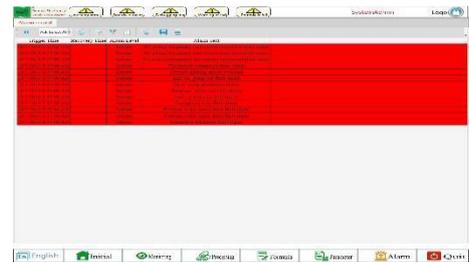
35. Production report

- Daily production included workpieces number and length is available at a glance.includes production capacity statistics, consumables usage statistics, and machine utilization efficiency statistics, facilitating production management.



36. Easy Trouble-shooting

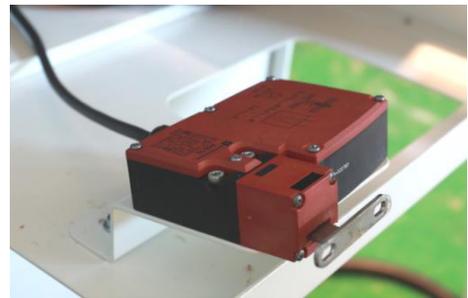
- Alarm shows clear info, easier to find problem



Option

1. CE Safety Door Lock

- Cover doors are equipped with safety door lock maximize the operator's safety.



2. 2KG/20KG PUR device

- Temperature control system by touch screen control, evenly heating up, avoid carbonization;
- Special gear pump for evenly glue supplying
- Built-out independent suspending system of gear pump to facilitate the repairing and save time.



3. 63mm pre-milling cutter

Technical Data

Panel length:	≥120 mm
Panel width:	≥80 mm
Panel thickness:	9-60 mm
Min. panel size	120×120mm; 200×80mm
Edge tape thickness:	0.4-3 mm
Feeding speed:	25/32m/min (corner rounding ON)/45m/min
Power supply:	380 V; 50 Hz
Air pressure required:	0.7MPa
Operation system	PC control
Dust collector	Φ125mm×8
Total power:	61.5 kW
Approx. weight:	10,000 kg
Overall dimension:	11,500×900×1,900mm

*Thanks for your attention!

The company continuous to improve the product specifications and design details, the specifications are subject to change without notice. 250612