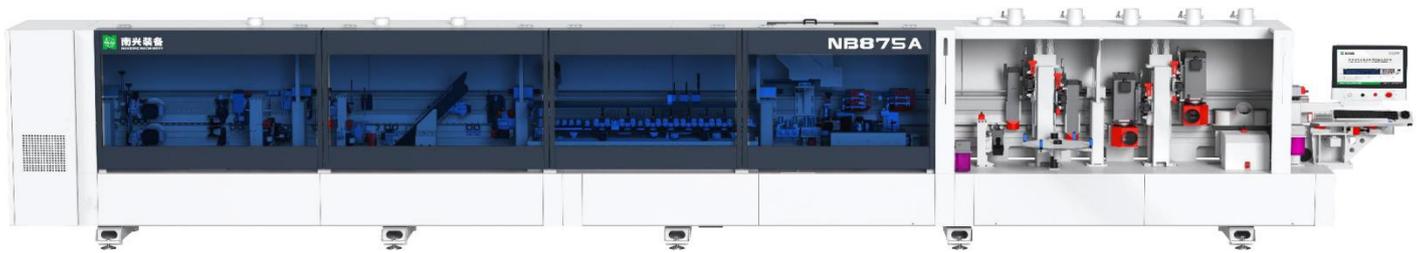


# Edge Banding Machine for Soft Forming-NB875A

Combination straight & Soft forming edger



Find more: [www.nichomachines.com](http://www.nichomachines.com)





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

## Overview

- Maximise output and potential product lines on one machine with the NB875A Edge bander. Combining both straight and Soft forming units with a magnitude of edging features, the NB875A offers flexibility and significant return on investment. 13 shapes switch;
- Full C; Left Half J; Right Half J; Concave Center; Left Concave Center; Right Concave Center; Central Teardrop W-Shaped; Left Diamond Shape; Right Diamond Shape; Central Diamond Shape; Full straight;

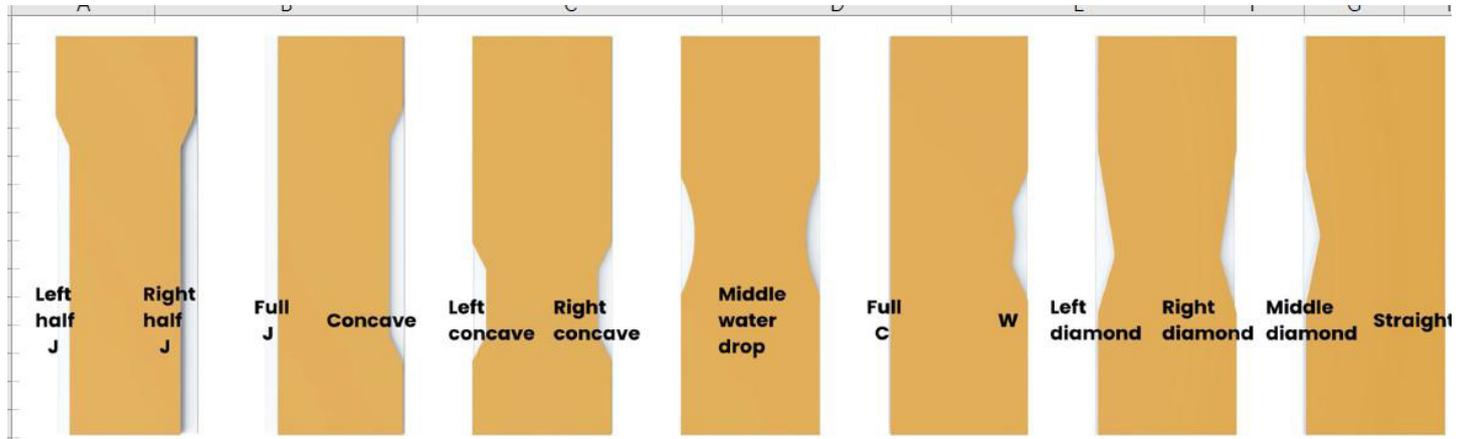
## Processing function



## Highlights:

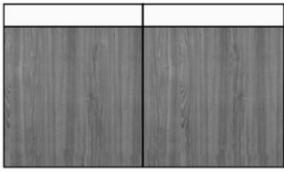
- A multi-purpose soft forming automatic edge banding machine, to solve the process needs of the door panel without "hardware handle", light luxury minimalist high-end home must choose the best products. Fully automatic system control, a set of milling cutters are universal, A variety of shapes (14) can be freely matched, simple operation, one molding edge banding, reduce production costs, improve production efficiency.
- Green energy saving function When the machine does not process the plate for more than a certain time (can be set), the machine automatically enters the energy-saving standby state, such as the tool motor stops;

Board & edge Thickness:



		Panel thickness 18mm	Panel thickness 22mm	Panel thickness 25mm		
Edge width	Left half J	54-60mm	58-64mm	61-67mm		
	Right half J	54-60mm	58-64mm	61-67mm		
	Full J	54-60mm	58-64mm	61-67mm		
	Concave	54-60mm	58-64mm	61-67mm		
	Left concave	54-60mm	58-64mm	61-67mm		
	Right concave	54-60mm	58-64mm	61-67mm		
	Middle water drop	54-60mm	58-64mm	61-67mm		
	Full C	35-40mm	39-44mm	42-47mm		
	W	54-60mm	58-64mm	61-67mm		
	Left diamond	54-60mm	58-64mm	61-67mm		
	Right diamond	54-60mm	58-64mm	61-67mm		
	Middle diamond	54-60mm	58-64mm	61-67mm		
	Straight	28-30mm	32-34mm	35-37mm		

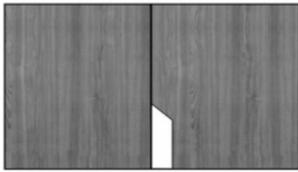
Kitchen Cabinet door application sample:



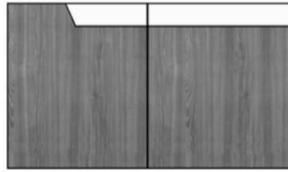
J-shaped+J-shaped



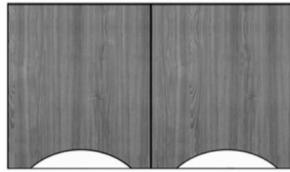
Lightning concave+Lightning concave



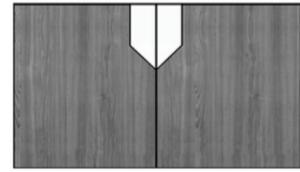
Straight edge + half through



Left half-through + J-type



Concave



Left half pass+right half pass

Car case door application sample:



C-type+right half pass



Lightning concave+Lightning concave



Lightning concave+Lightning concave



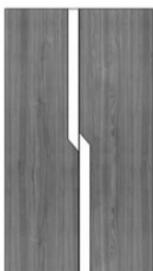
Lightning concave+straight edge



J-shaped+right concave



Diamond left+Diamond right



Right half pass+right half pass



Left concave+straight edge



Left half pass+right half pass

Details

1. Strong body/parts processing capacity

- Heavy duty machine body is welded with thick laser-cut steel plates, then through processing of advanced CNC machine for metal work, hence enhance the stability and strength, reduce the vibration in the process; Very heavy duty;
- 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.



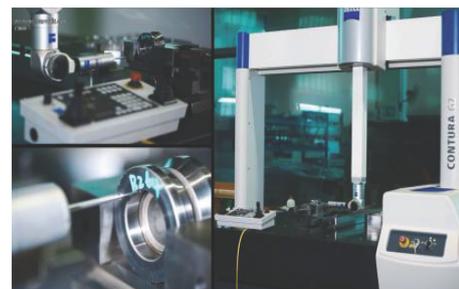
2. Professional assembly line

- 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.



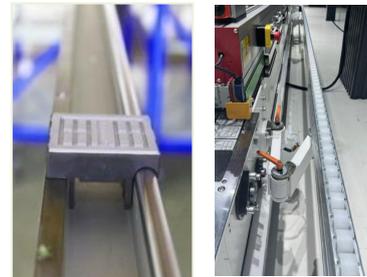
#### 4. Machine body

- Workpiece Conveyor Chain, Guided by Semi-Circular Rails;
- The upper pressing part and the base part are connected on the body by columns, and this bridge structure can withstand; 5
- The pressure of the pressing beam and the workpiece itself, with the transmission method being screw and nut;
- Laser-cut steel plates, welded in one go, with internal stresses relieved through natural aging.



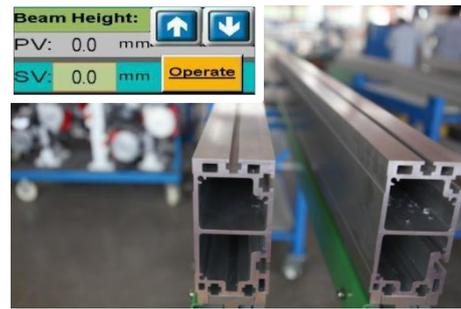
#### 5. Conveyor

- Long straight semicircle guide rail is through hard treatment before installation, conveyor piece can perfectly contact with the guide rail, almost no gap.
- Two steel rods of high rigidity connect the “stretched support conveyor” to the machine body to ensure the stable conveying of the wide work pieces. Max stretching width is 600mm.
- Long steel guiding plate of high thickness and rigidity for longer service life and position is easy to adjust.
- The conveyor motor makes variable frequency starting possible, very stable and equipped with braking system. And motor is fully covered by cover.



### 6. Top presser

- Aluminum pressure beam provides excellent stiffness and long service life.
  
- The height of presser beam adjusted automatically based on work piece's thickness just by inputting the work piece information on touch screen which saves a lot of time.
  
- Rubber rollers connected compactly in rows press work pieces tightly to make sure the work pieces could convey without displacement, wearproof.



### 7. Spraying device (release agent)

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



### 8. Pre-milling

- Two motors;
- Used for fine trimming and edge finishing of workpieces before gluing;
- The two motors use electronic pneumatic control for intermittent milling;
- Feed guide plate adjusts the amount of pre-milling;
- Two pre-milling cutters (standard configuration includes 35mm high pre-milling cutters);
- Workpiece cleaning and air blowing device;



### 9. Two Sets of Forming milling units

- For JC Series Profile Milling:
- Each set is equipped with two 7.5KW motors + two 3.5KW motors; 7
- Used to process the shape of the workpiece;
- Utilizes servo control for feed rate, enabling one-click switching between J and C;



### 10. Corner handling units

- Used for smoothing the sharp edges of workpieces before applying adhesive which makes tape apply on board edge better.
- The motor employs electronic pneumatic control for edge milling.
- Equipped with a board cleaning and air blowing system.



### 11. Pre-heating

- Instant high temperature heating. Warm the work piece edge, when the glue sticks to the board, the glue will not quickly cool down and solidify. The quality will be better.
- Especially suitable for wet or cold zones.



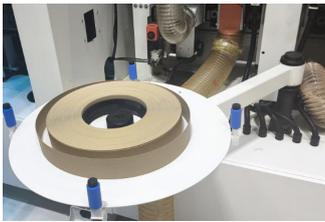
### 12. 2 sets pre-melt gluing unit

- Glue is applied evenly and supplied promptly.
- The overall lifting mechanism is adjustable to prevent edge tape from tilting.
- Automatic addition of glue particles, with a liquid level detector controlling the capacity of the glue box.
- 2 sets gluing units, first is used to apply glue on board edge for less glue line and better performance, Second uses edge tape gluing method for forming position, suitable for different types of molding edges, least glue line, and save glue
- Automatic glue shut-off to prevent leakage and accumulation of glue.
- Actuator adjusts the height of the tape pressing, suitable for different widths of edge tape.



### 13. Snipping&servo tape feeding

- Air cylinder with electric control switch of snipping unit is capable of mass production requirements.
- Tape feeding by servo;



### 14. Tape Molding and Pressing Device:

- High-Precision In-Mold Squeezing: Utilizes high-precision in-mold squeezing technology to ensure the edge banding tightly adheres to the groove of the board.
- Upper and Lower Contour Compaction: Features an upper and lower contour compaction system to ensure the edge banding is firmly bonded to the groove, enhancing the quality of the edge banding.
- Precision Pressure Rollers: Equipped with precision pressure rollers to minimize damage to the board during the pressing process, ensuring a smooth and flawless surface.
- Multi-Component Molding and Pressing: Includes multiple molding and pressing components to accommodate the firm bonding needs of different board shapes and edge banding.
- Edge Banding Preheating and Air Conditioning Unit: Incorporates an edge banding preheating and air conditioning unit to maintain the appropriate temperature and humidity of the edge banding during the pressing process, further improving the bonding effect.
- Air tank to ensure stable air supplying



15. Hot air gun

- Two hot air guns to warm the edge tape. Let the edge tape soften.
- Keep the temperature of the glue on the edge tape. Ensure that the glue has good viscosity when press the soft side.



16. Auto lubrication system

- Lubrication system could meet the requirement of daily maintenance of linear guide rail, easy operation and save the possible costs.



17. End trimming

- Through precise linear guide motion, the structure adopts automatic template tracking and high-frequency, high-speed motor for rapid cutting, ensuring a smooth and flat cutting surface.
- Front and rear trimming motors: 12000 r/min, 0.35kW × 2 units
- Two saw blades;  $\varnothing 180 \times 3.5 \times \varnothing 22 \times 60T$



### 18. Rough trimming

- The structure adopts a template and high-frequency high-speed motor, used to trim the excess edge banding material on the top and bottom of the processed board, ensuring the flatness and smoothness of the trimmed board's upper and lower parts.
- Milling motor: 12000 r/min, 0.75kW × 2 units.
- Cutter: 56×20×H14×4Z



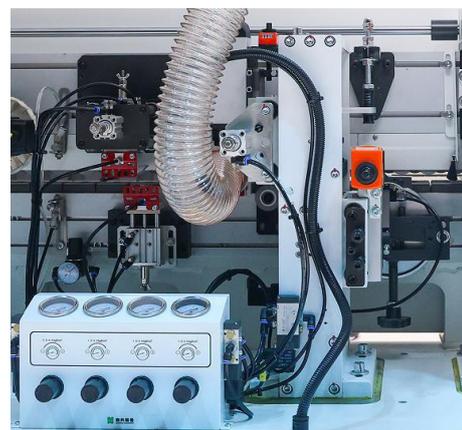
### 19. Fine trimming

- The trimming function utilizes an R trimming cutter to create a curved edge on the board's edge banding. This trimming process also provides the necessary allowance for the subsequent scraping function.
- Trimming Motor Specifications:
- Speed: 12,000 rpm; Power: 0.55 kW × 2 units
- Cutter: 70\*16\*H16\*3Z R1.5



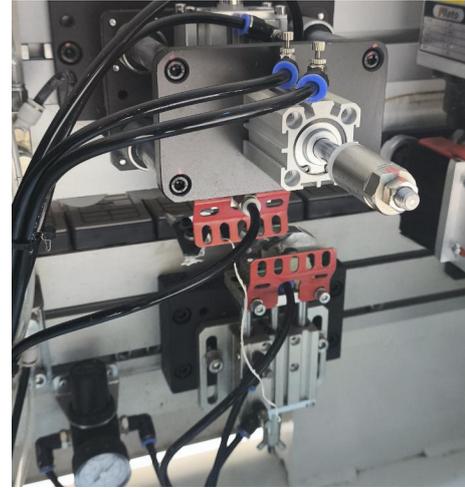
### 20. Scraping

- To eliminate the ripple marks caused by the non-linear motion of the trimming process during cutting, making the upper and lower parts of the sheet smoother and cleaner;
- Cutter: R1.5 30103.01836



21. Pneumatic flat scraping

- Used to scrape off any residue left on the board and edge banding after the edge banding process, ensuring the board and edge banding are smooth and clean.



22. Spraying device (Clean agent)

- Spray clean agent before buffing thus reduce possible glue line effectively.



23. Double Buffing

- Buffing by dual screen cloth structure is the last step to make perfect edge banding to make the edge shining, more stable.



24. Fully covered

- Whole machine is fully covered



## 25. Switch

- A switch enables the operator to stop or start the machine anytime during the process that provides the max. convenience to adjust or test the machine.
- Operation indicating light, the operation status of the machine is available at a glance.



## 26. Dust collection

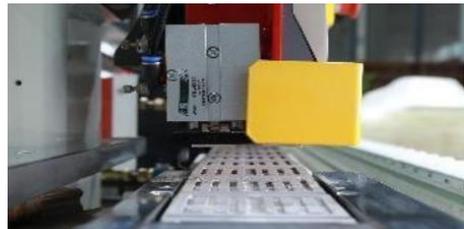
- Independent suction hood ( φ 125mm) fully covered on processing units, provide excellent working condition, prevent any influence caused by scraps for longer service life.



## 27. Safety device

### Feeding protector and thickness detection

- Used to limit the spacing between boards, ensuring the normal operation of each component;
- Over-thickness protection for workpieces, when the thickness of the board exceeds the current, thickness, the conveyor belt stops;
- Ensuring safe feeding of workpieces.



### 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.



### 1. Cover door and dust collector

- Machine is fully covered and fits sound-absorbing cotton to reduce noise.



### 28. Electric equipment

- PLC control, input voltage 380v, 50Hz (Standard).
- The position can be calculated precisely by encoder
- Each processing unit is controlled and protected by independent frequency converter with motor braking function.
- Most of electric components of the machine adopted international brands for high quality and generality. Well-known brand electrical appliances: Taiwan Delta/Inovance etc.; Low-voltage appliances: Schneider
- Good documentation, each wire has a unique code label which offers max convenience for troubleshooting and online support.



### 29. PC control

- Industrial Internet Controller
- 24-inch Industrial-grade Touch Screen
- Capable of linking with backend data to query historical records
- Supports scanning and processing, with one-click switching between different shapes and processing parameters
- Intelligent control supports scanning processing, enabling one-click switching of processing parameters for different shapes, optimizing the production process.
- Option:** bar code reader



Technical Data

Panel length:	≥300 mm (center concave≥400mm)
Panel width:	≥150 mm
Panel thickness:	18 mm (Straight side) 18-25 mm (Soft forming)
Min. panel size	300X150 mm
Edge tape thickness:	PVC 0.5-0.6 mm (Soft forming) 0.5-1.2 mm (straight)
Feeding speed:	8 m/min
Power supply:	380 V; 50 Hz
Air pressure required:	0.7MPa
Operation system	24" IPC
Dust collector	Φ125mm×9
Total power:	68 Kw
Approx. weight:	6,000 kg
Overall dimension:	11,015*1,000*1,940 mm

\*Thanks for your attention!

The company continuous to improve the product specifications and design details, the specifications are subject to change without notice. 250219