



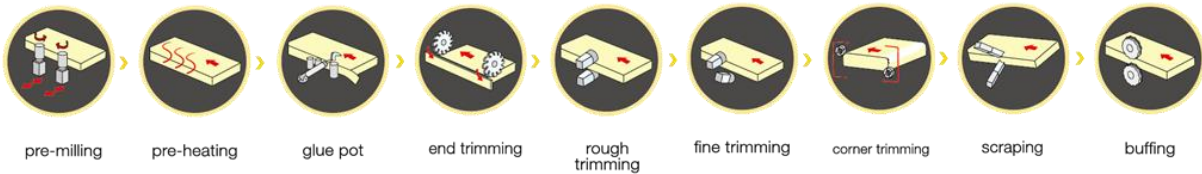
## Edge Banding Machine Double color PUR for Narrow Parts NB670N(NB7CJN)



### Description

Compact press rollers cooperate with additional assistance rollers on front and in between make it possible to do edge banding work for min 45\*120mm, and 45mm end edge.

Edge banding direction





### Details

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#### 1. Machine body

- 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;
- 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 in one positioning, thus high precision processing makes sure perfect quality and detail.



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#### 2. Professional assembly line

- Nanxing follow 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.



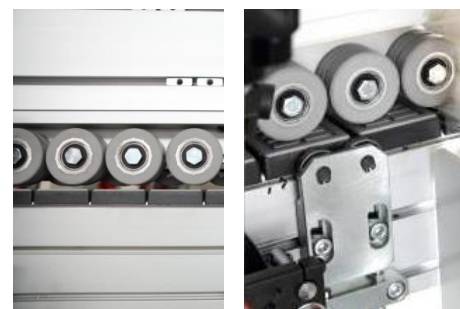
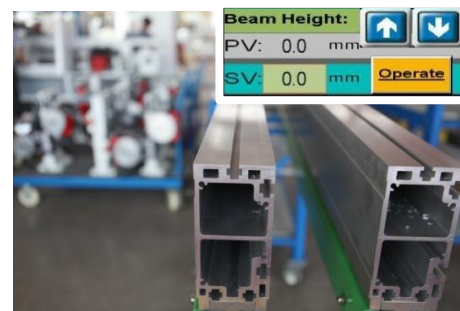
### 3. Quality control

- 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.
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### 4. 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.
- Smaller rubber rollers connected compactly in rows press work pieces tightly plus side roller assistance to ensure smooth conveying of narrow workpieces.





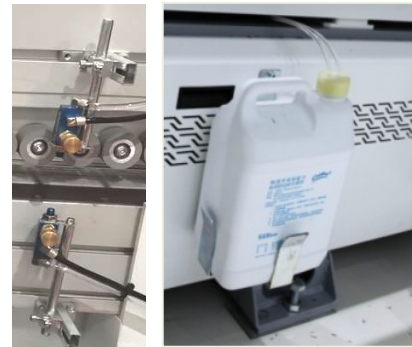
### 5. Conveyor

- 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. Easy to install or uninstall.



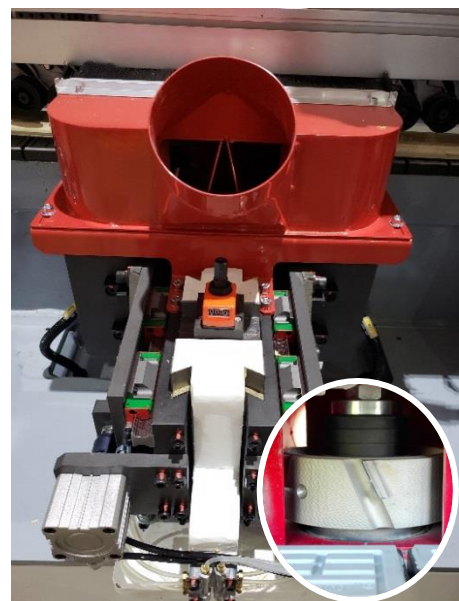
### 6. Sprayer unit-Cleaning agent

- Release Agent before pre-milling;



### 7. Pre-milling

- Pre-milling with 2 **diamond cutters**  $\phi 125 \times H35 \times \phi 30$  Z3+3 simply mill the work piece edge a little bit to ensure smooth edge;
- Two motors controlled pneumatically, milling panel edge intermittent. 2× 3.7kW motors; 200Hz Rotating speed: 12,000 rpm.





### 8. Assistance for narrow edge

- Narrow edge like 30min-width long edge is accessible thanks to the feeding assistance at front and additional assistance roller specially designed for narrow edge.



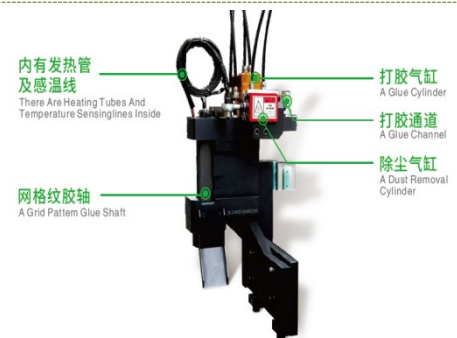
### 9. Pre-heating

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



### 10. PUR gluing applicator

- The unique glue gate structure utilizes a diverting scraper principle, preventing wood chips from clogging the glue shaft and eliminating stroke limitations, resulting in even and stable adhesive application. The upper cover is made from a single piece of ductile iron, ensuring high precision with a multi-seal design to prevent glue leakage during high-temperature use.



### 11. 2-color PUR heater

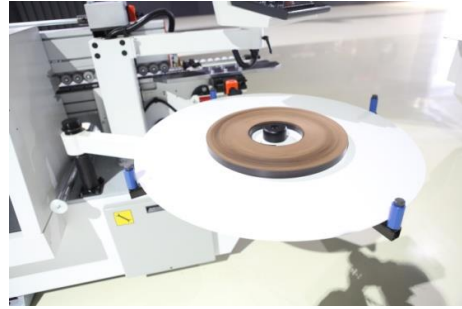
- It allows for quick switching between two types of PUR adhesives, enhancing processing efficiency.
- The intelligent control touchscreen makes operation simple and convenient.
- The integrated aluminum alloy pressure plate ensures uniform heating, high-temperature durability, and resistance to deformation.
- It uses imported Teflon heating glue tubes, which are durable, flexible, and have better non-stick properties.





### 12. Edge tape supporter

- Edge tape supporter of high quality is in proper height for smooth edge tape feeding and longer service life.
- Alarm will appear on touch screen when edge tape is used up, save waiting time.



### 13. Snipping

- Snipping air cylinder with electric controlled switch to cut the edge tape properly.



### 14. Pressure rollers

- One pre-pressure roller of 100mm diameter coordinates well with four post rollers make edge tape pressed on edge surface firmly.



### 15. Lubrication system

- Lubrication pump for daily maintenance, greasing work of guiding rail just by pulling the handle. Easy and save time.



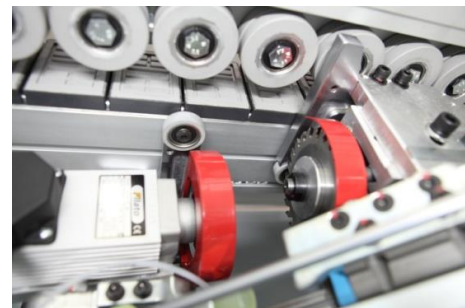


### 16. End trimming

- Linear guide way structure at an angle of 45 degrees with 2 motors 0.35kw 200hz 12000rpm/min to remove the extra edge tape on front and back.
- High precision linear guides – for very high repeatability.



- 2pcs of saw blades (105\*3\*22\*24Z) with independent cover.



### 17. Rough trimming

- Rough trimming unit with 2 powerful motors of world famous brand (power 0.75kw; frequency 200hz; rotating speed 1,2000rpm/min), 2 milling cutters with two stiff steel positioning guides;



- Independent cover keeps scraps from flying, and guiding to machine bottom.



### 18. Fine trimming

- 2 motors (power: 0.55kw; frequency: 200hz, rotating speed: 12000rpm/min). 2 fine trimming milling cutters (Standard: R1.5);
- Guiding board with high stiffness and independent cover on cutters for longer service life.
- Motor angle can be adjusted to most suitable angle for best R result.





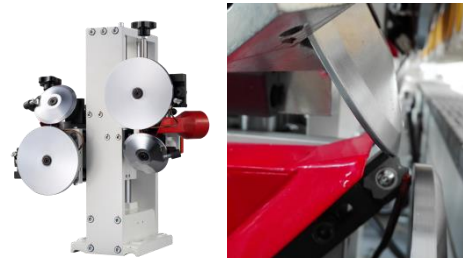
### 19. Corner trimming unit

- Designed to trim sharp corner on front, back and two straight edges so as to achieve R circular arc radius.
- Driven by 2 motors (power: 0.3kw; frequency: 200 Hz, rotating speed: 12000rpm/min).
- Planar linkage with 4 corner trimming tools R1.5 3Z
- Rotating angle is adjusted automatic with an electric sensor, heavy duty designed.



### 20. Scraping

- Scraping the edge by R1.5 cutters (Standard), making edge banding more beautiful.
- Air blowing device blowing toward the scraping cutters on upside and underside for cleaning the scraps on cutter surface and cooling.



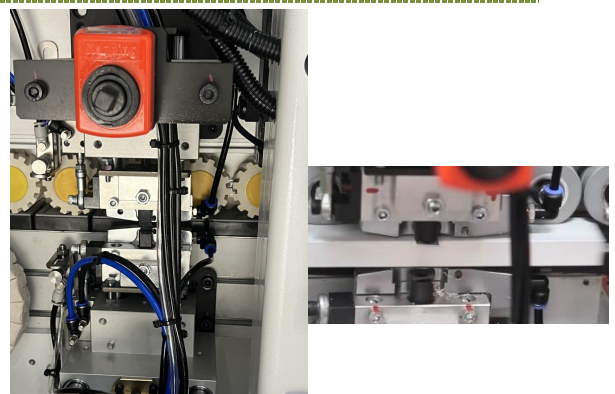
### 21. Clean agent sprayer

- Clean Agent to clean edge before buffing.



### 22. Flat scraping

Remove possible extra glue of top and bottom for better edge banding effect



### 23. Buffing

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



### 24. Dust collection

- Independent suction hood ( $\varnothing 125\text{mm}$ ) on processing units are fully covered, totally 4pcs dust collectors



### 25. 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.



## 26. Remote switch and indicator light

- A remote 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.



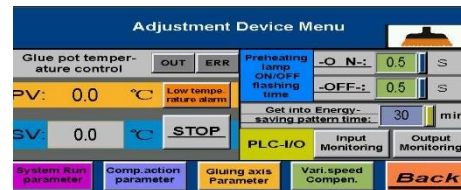
## 27. Control system

- 10" touch screen. Operation interface is intuitive and simple, available to control each component independently easy for testing and commission work.
- System languages: English, simplified Chinese, and traditional Chinese.



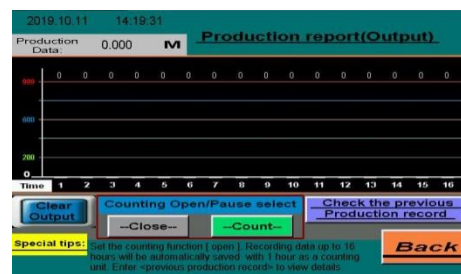
## 28. Energy saving

- Stand-by mode automatically turned on when machine stops working for a certain period (according to setting time) in order to save energy. Only one click to re-start production.
- One-click Selection, quick start/stop.



## 29. Production report

Daily production included workpieces number and length is available at a glance





### 30. 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.
- Good documentation, each wire has a unique code label which offers max convenience for troubleshooting and online support.





### Technical Data

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<b>Panel length</b>	≥200mm
<b>Panel width</b>	≥40mm (45mm when corner trimming)
<b>Min panel size</b>	200*40*9mm (Long edge) 200*45*9mm (Short edge)
<b>Panel thickness:</b>	9-60 mm
<b>Edge tape thickness:</b>	0.4-3 mm
<b>Feeding speed:</b>	16/20/24 m/min 16 m/min when corner trimming
<b>Power supply:</b>	415 V; 50 Hz
<b>Air pressure required:</b>	0.7MPa
<b>Operation system</b>	10" touch screen
<b>Dust collector</b>	Φ125mm×4
<b>Total power:</b>	22.4 Kw
<b>Approx. weight:</b>	2,800 kg
<b>Overall dimension:</b>	7,700*1,450*1,650 mm

*\*Thanks for the attention!*

*The company continuous to improve the product specifications and design details, the specifications are subject to change without notice. 200410*

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