

# Edge Banding Machine NB7CJ

(with pre-melter & 2-position tool adjust & sprayer & flat scraping, nesting kit)

NichoMachines Machinery



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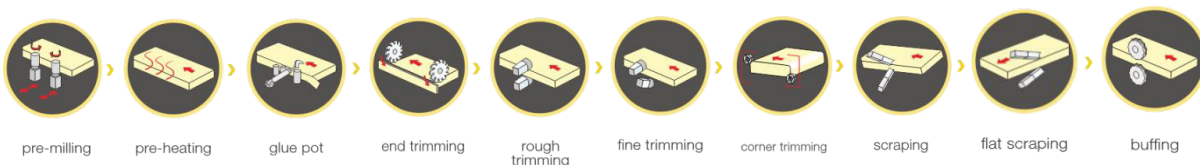


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## Description

- Heavy duty machine body and most mechanical machine parts are proceeded by advanced CNC machines for higher stability and longer service life without deforming;
- Merges numerous functions in one machine, including pre-milling, pre-heating, glue pot, snipping, end trimming, rough trimming, fine trimming, corner trimming, scraping, surface scraping and buffing, edge banding work can be done in one process.
- Customer Reference: 30+ countries; 2000+ machines
- Nesting kit design, pre-drilled nesting hole friendly

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; Machine net weight up to 2800kg-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.



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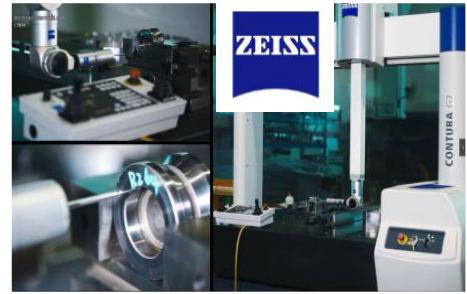
### 2. Professional assembly line

- 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.



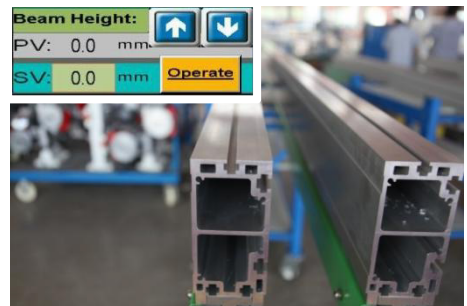
### 3. Quality control

- 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.



### 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.
- Rubber rollers connected compactly in rows press work pieces tightly to make sure the work pieces could convey without displacement, wearproof.



### 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. Position is easy to adjust.
- The conveyer motor makes variable frequency starting possible, very stable and equipped with braking system. Easy to install or uninstall. With cover.



### 6. Pre-milling

- Pre-milling with 2 LEUCO 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.  $2 \times 3.7\text{kW}$  motors; 200Hz. Easy to adjust height by separate structure Rotating speed: 12,000 rpm. (option: 63mm height)



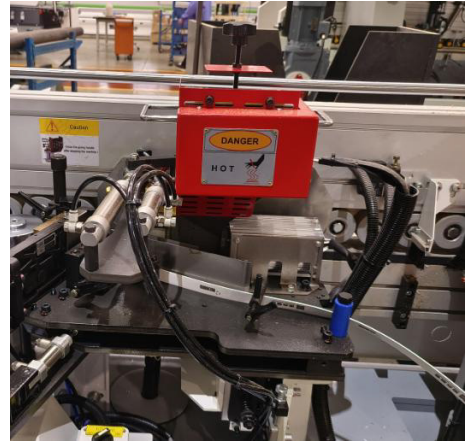
### 7. Pre-heating

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



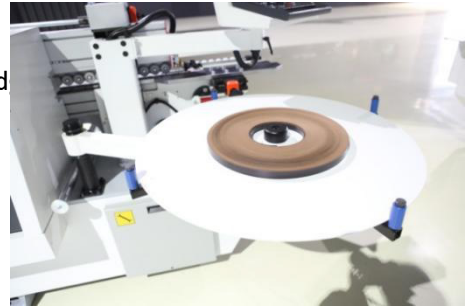
8. Quick change gluing applicator

- Small glue pot on bottom, thus reducing the carbonization and vulcanization from burning up of glue resins, keep glue always fresh.
- Just one screw to release and install glue pot, 60mm high gluing roller, more glue supplying suitable for mass production, long parts.
- Linkable to PUR device.(PUR device is option)
- Pneumatic glue gate, close the gate after turn off the gluing unit.



9. Edge tape supporter

- Edge tape supporter of high quality is in proper height for smooth edge life. 5



10. Tape Snipping

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



11. Pressure rollers

- One pre-pressure roller of 100mm diameter coordinates well with four post rollers make edge tape pressed on edge surface firmly.
- Front 2 rollers have scraper to remove the glue, keep roller clean.



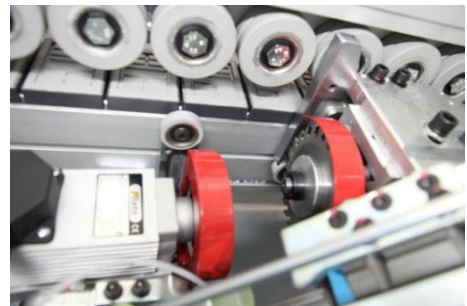
12. Lubrication system

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



13. End cutting

- 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.
- Dust collector



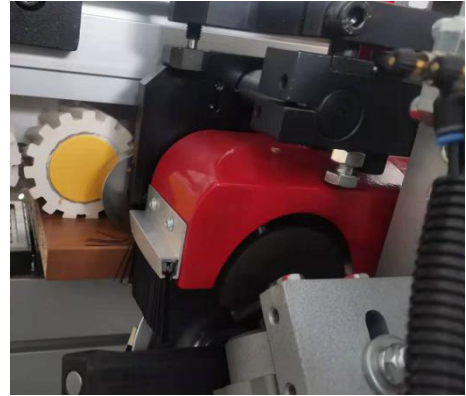
14. Rough trimming

- Rough trimming unit with 2 powerful motors of world famous brand (power 0.75kw; frequency 200hz; rotating speed 1,200rpm/min).
- Upper and lower trimming motor is in compact structure, saving space
- Independent cover keeps scraps from flying, and guiding to machine bottom.



15. 2 position pneumatically adjustable fine trimming

- 2 motors (power: 0.55kw; frequency: 200hz, rotating speed: 12000rpm/min). 2 fine trimming milling cutters (Standard: R1.5);
- Nesting kits avoid possible damage on hinge hole on the edge.
- 2 position tool pneumatic adjustment is designed for fast switch between two tape thickness resulting shorter setting up time, max convenience



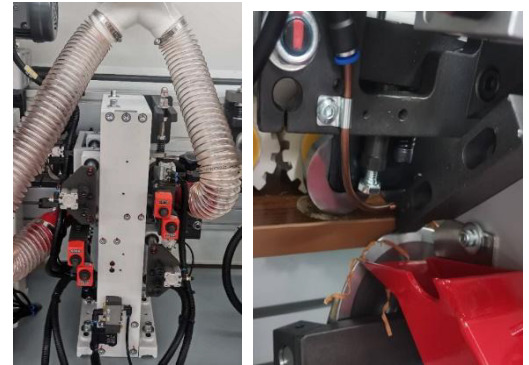
16. Corner trimming unit

- 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.



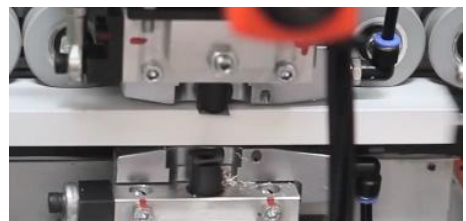
17. 2 position pneumatically adjustable scraping

- Scraping the edge by R2 cutters (Standard), making edge banding more beautiful.
- Triple rollers structure avoids possible damage on hinge hole on the edge.
- 2 position tool pneumatic adjustment is designed for fast switch between two tape thickness resulting shorter setting up time, max convenience



18. Flat scraping

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



19. Clean agent sprayer-PINK

- Pink Clean Agent to clean edge before buffing.



20. Buffing

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



21. 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.

22. 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.



### 23. CE Safety Door Lock

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



### 24. Cover door and dust collector

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



### 25. 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.



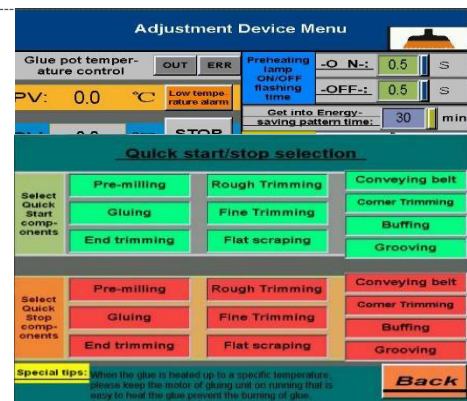
### 1. Dust collector

- Independent suction hood (φ125mm) fully covered on processing units, totally 5 pcs dust collectors provides excellent working condition, prevent any influence caused by scraps for longer service life.



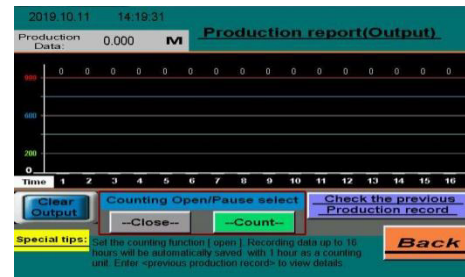
### 26. Energy saving

- 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.



### 27. Production report

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



### 28. Electric equipment

- PLC control, input voltage 415v, 50Hz (Standard). 10
- 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.



Option

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1. Pre-melter gluing system

- 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, more glue supplying suitable for mass production, long parts.
- Sliding seat, easy to switch between pre-melter and PUR device. (PUR device is option)



2. 2.5KG/10KG 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.



1. Extra conveyor roller

- Offer more solid support for big boards



## Technical Data

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Panel length:	≥120 mm ; ≥200 mm with corner rounding
Panel width:	≥60 mm
Mini. Panel size:	120×120mm;120×60mm
Panel thickness:	9-60 mm
Edge tape thickness:	0.4-3 mm
Feeding speed:	16/20/24 m/min
Power supply:	380 V; 50 Hz
Air pressure required:	0.7MPa
Operation system	10" touch screen
Dust collector	Φ125mm×5
Total power:	24 Kw
Approx. weight:	2,800 kg
Overall dimension:	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. 230607