

Edge Banding Machine NB860EC



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3-year warranty*
ensuring no hassle
and unforeseen costs



Quick return on
investment



Low Total Cost of
Ownership

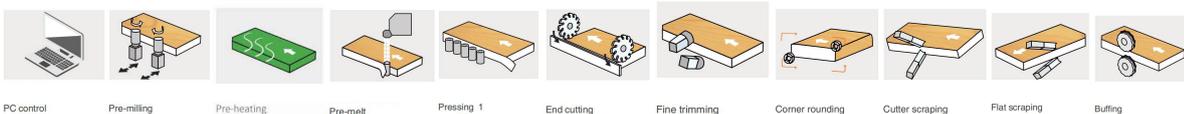


Ensuring low price
by sourcing cleverly
in large quantities

Description

- Heavy duty machine 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, fine trimming, corner trimming, scraping, surface scraping and buffing, edge banding work can be done in one process.
- Intelligent PC control, infeed fence, tape pressing rollers, fine trimming and scraping are servo adjust. Corner rounding pneumatic adjust. Machine Speed 16/20/24m/min;
- Nesting kit design, pre-drilled nesting hole friendly

Edge banding direction



PC control

Pre-milling

Pre-heating

Pre-melt

Pressing 1

End cutting

Fine trimming

Corner rounding

Cutter scraping

Flat scraping

Buffing

Details

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 3000kg-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

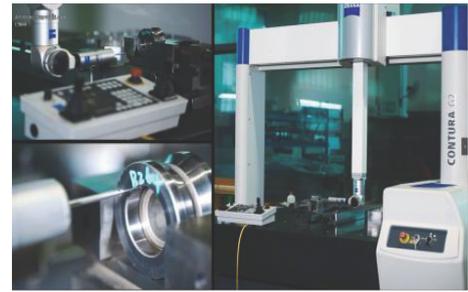
- Nanxing follow the SOP and set up the professional assembly lines. All the assembling is worked out by the experienced technicians that guarantee machine standardization and performance.



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. 3

- 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.

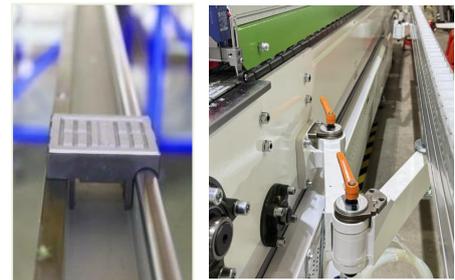
- The height of presser beam adjusted automatically based on work piece's thickness just by inputting the work piece information on touch screen which saves a lot of time.

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



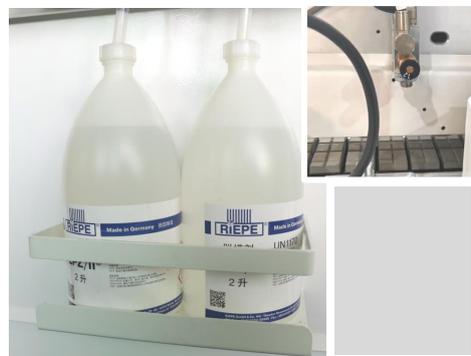
5. Conveyor

- Long straight semicircle guide rail is through hard treatment before installation, conveyor piece can perfectly contact with the guide rail, almost no gap.
- ConveyorTM to the machine body to ensure the stable conveying of the wide work pieces. Max stretching width is 600mm. 4
- Long steel guiding plate of high thickness and rigidity for longer service life. Adjust by servo. 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. With cover.



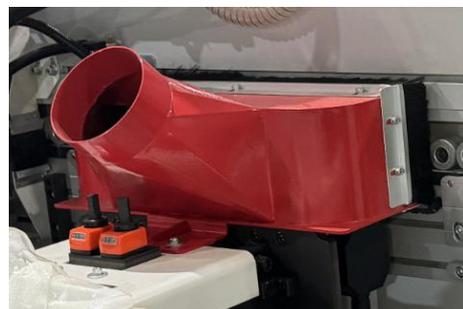
6. Sprayer unit-Cleaning agent

- White Release Agent before pre-milling;



7. Pre-milling

- Pre-milling with 2 pcs diamond cutters $\phi 125 * H63 * \phi 30$ Z3+3 mill the work piece edge a little bit to ensure smooth edge;
- Two motors controlled pneumatically, milling panel edge intermittent. 2x 3.7kW motors; 200Hz. Easy to adjust height by separate structure Rotating speed: 12,000 rpm.



8. Pre-heating

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



9. Pre-melt 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. 5
- Pneumatic glue gate to close the gate automatically when turn off the gluing unit;



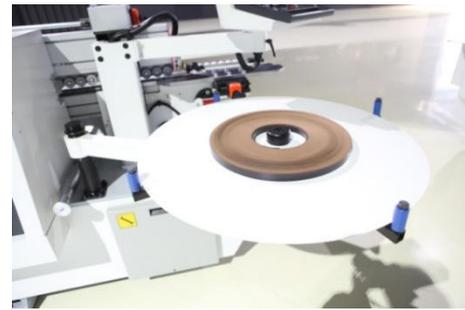
10. Auto glue pumping + 25kg glue basic

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



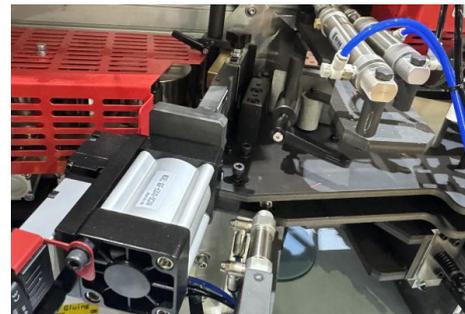
11. Edge tape supporter

- Edge tape supporter of high quality is in proper height for smooth edge tape feeding and longer service life.



12. Tape Snipping

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



13. 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.
- Front and rear position adjustment is by servo;
- Full covered for safety



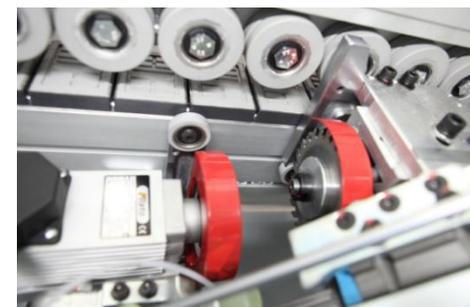
14. Auto lubrication system

- Lubrication pump for daily maintenance, Auto greasing. Easy and save time.



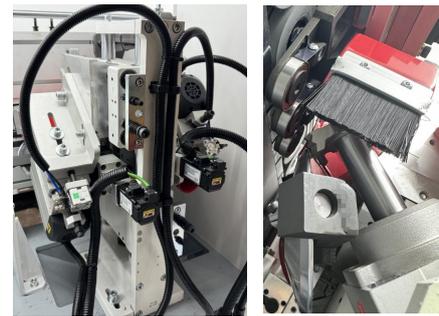
15. End cutting

- 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.
- Manually motor rotating mechanism to adjust angle;
- 2pcs of $\phi 104*3*30T*22AB$ saw blades with independent cover.
- Dust cover



16. Fine trimming -auto adjust

- 2 motors (power: 0.75kw; frequency: 200hz, rotating speed: 12000rpm/min).
- 2 fine trimming milling cutters with R1.5 & R1 arc;
- Nesting kits avoid possible damage on hinge hole on the edge.
- Front and back adjustment by servo is designed for fast switch between tape thickness resulting shorter setting up time, maximize operating convenience;



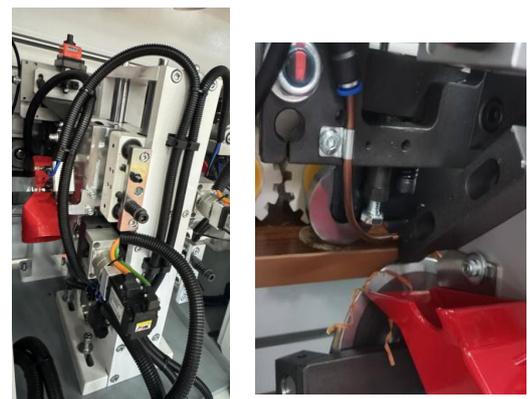
17. Corner trimming unit

- 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
- 2-position pneumatic adjustment



18. Scraping -auto adjust

- Scraping the edge by R1&R2 cutters, Plus servo adjust make it easy to switch between different tape thickness;
- Triple rollers structure avoids possible damage on hinge hole on the edge.



19. Flat scraping

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



20. Clean agent sprayer-PINK

- Pink Clean Agent to clean edge before buffing.



21. Buffing

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



22. 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.



23. Hand controller and indicator light

- Hand controller makes it easy for machine testing and commissioning;
Operation indicating light, the operation status of the machine is available at a glance.



24. CE Safety Door Lock

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



25. Cover door and dust collector

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



26. PC Control

- Operation interface is intuitive and simple, available to control each component independently easy for testing and commission work.
- System languages: English and traditional Chinese.
- Bar-code reader
- Formular function;
- Energy saving function



27. Dust collect outlet

- Independent suction hood ($\phi 125\text{mm}$) fully covered on processing units, totally 5 pcs dust collectors provides excellent working condition, prevent any influence caused by scraps for longer service life.



28. Electric equipment

- Delta PLC and servo driver
- 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

1. 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.



2. Extra conveyor roller

- Offer more solid support for big boards or in line



Technical Data

Panel length:	≥120 mm ; ≥200 mm with corner rounding
Panel width:	≥60 mm
Mini. Panel size:	120×120mm;120×60mm long edge; 200*80mm short edge
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
Pane spacing	≥500mm
Overhang	28
Dust collecting outlet	Φ125mm*5
Total power:	28 Kw
Approx. weight:	3,000 kg
Overall dimension:	5,930*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. 240415