

Edge Banding Machine for Inclined Edge NB5X

Nanxing Machinery
Guangdong, China

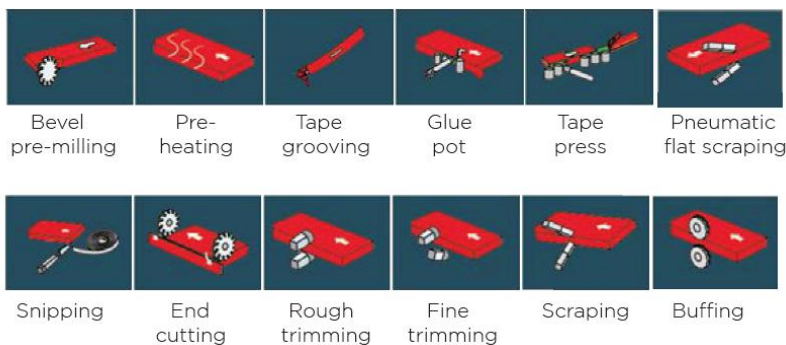


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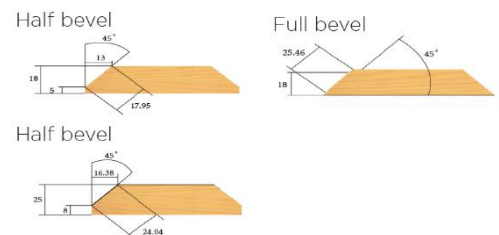


Description

With the NB5X you can create on trend cabinets with a 'finger pull' profile design. This eliminates the need for additional hardware such as handles. Create angled or inclined edging with twin diamond cutters and twin glue station.



Half and full bevel



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- very heavy duty**; 7700mm long.
- 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.



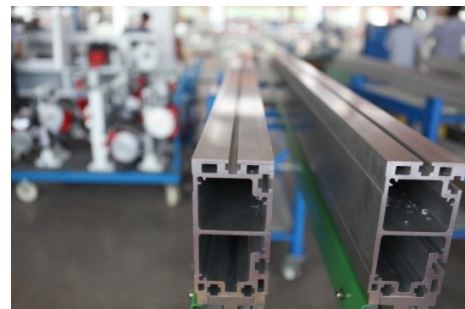
3. Quality control

- Advanced measuring equipment and strict QC system help to make sure the machines and parts are checked and certificated by very high standard.
- 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.
- “stretched support conveyor” is strong and easy to adjust Max stretching width is 600mm.
- Long steel guiding plate of high thickness and rigidity for longer service life and extra stability during the banding work. 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.



1. Spraying device (release+ clean agent)

- Spraying release agent on workpiece surface avoids glue sticking on workpiece edge, then spray clean agent before buffing to clean possible glue line effectively. Final edge is clean.



6. Bevel edge milling

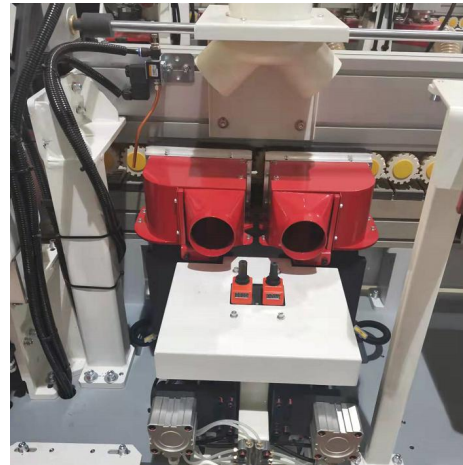
- Two pieces of 4.0kw high-power motors, rotating speed 2800rpm, high rotating speed, low vibration and low noise;
- Independent cover for least noise and prevent dust& chips.
- 2 sets of 45 degees diamond forming bevel cutters offer higher rigidity, longer service life and stable performance to ensure perfect milling effect without cracks.





7. Straight edge pre-milling

- Pre-milling with diamond cutter(LEUCO) motivated by high-frequency motor 2× 3.7kW motors; 200Hz
- Rotating speed: 9,000 rpm.
- Fully covered dust cover.



8. Pre-heating

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



9. Independent edge tape grooving device

- Two edge tape changing system makes it possible to switch between straight edge and bevel edge just by one button without any extra set up work.
- Edge tape grooving separates from machine body, avoids the influence in other processing units caused by edge tape scraps.
- The depth and position of the groove can be adjusted by the digital display band calibration knob, easy operation. Motor power 0.37kw.
- Edge tape feeding by servo, save edge tape effectively.



10. Bevel and straight gluing

- 2 gluing stations for inclined and straight edge, non-stick Teflon coated 5L, glue is spread on workpiece edge, edge tape could be stick to edge firmly.



11. Edge tape pressing

- Edge tape could be pressed tightly by compact rollers, bevel rollers will get back while processing straight edge.



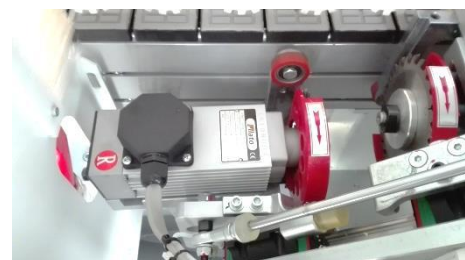
12. Hot air blowing gun (2pcs)

- Need to add hot air gun to warm edge tape if you use ABS this kind of fragile edge tape, but PVC is most suitable edge tape



13. 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.
- Fast move back structure, move backward while doing full bevel edge, move forward while doing half bevel edge so as to achieve fast switch between bevel edge and straight edge banding work but without possible collision or damage on edge tape.





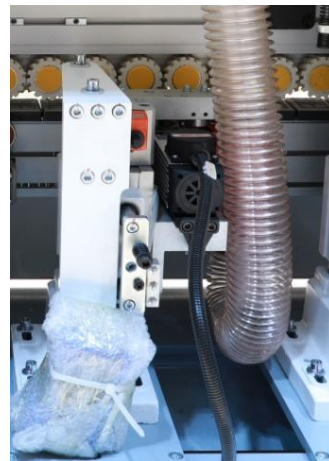
14. Rough Trimming unit

- Rough trimming unit with 2 powerful motors (power 0.75kw; frequency 200hz; rotating speed 1,2000rpm/min)



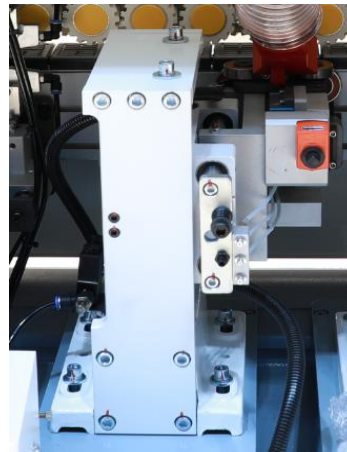
15. Bottom Fine trimming unit

- Only equipped bottom fine trimming unit with 1 powerful motors of world famous brand (power 0.55kw; frequency 200hz; rotating speed 1,2000rpm/min), 1 milling cutters with two stiff steel positioning guides;
- Independent cover keeps scraps from flying, and guiding to machine bottom.



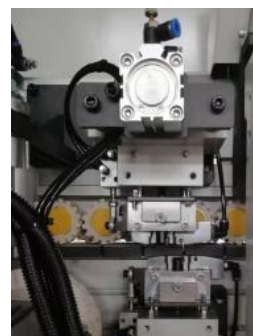
16. Bottom Profile scraping unit

- Equipped bottom scraping unit with R1.5 cutters (Standard), making edge banding more beautiful;



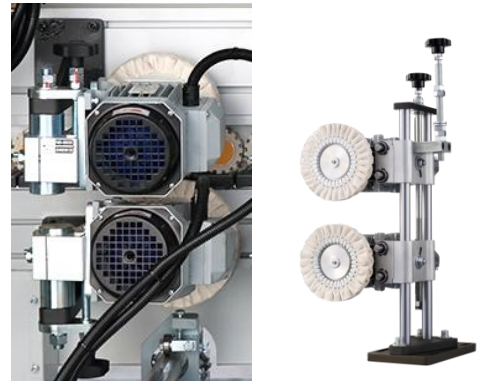
17. Flat scraping unit

- Flat scraping to remove possible extra top and bottom glue of workpieces for better result



18. Buffing

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



19. Dust collection

- Independent suction hood (φ125mm) on processing units are fully covered: bevel milling*1 Pre-milling*1; Rough trimming *1; Fine trimming *1; Scraping *1 .Tape feeding frame*1



20. 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.



21. Remote switch & Indicator light

- 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.
- Indicator light, the operation status of the machine is available at a glance.



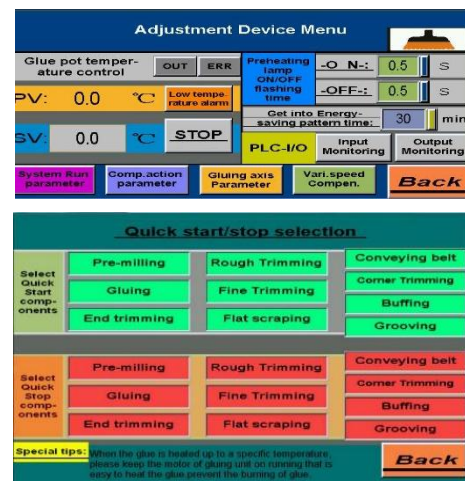
22. Control system

- 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.



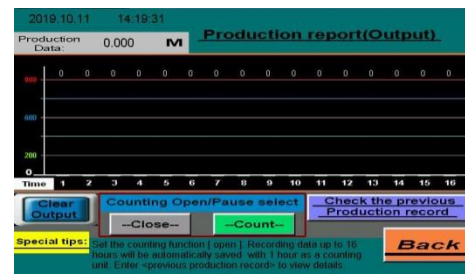
23. Energy saving

- 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.



24. Production report

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



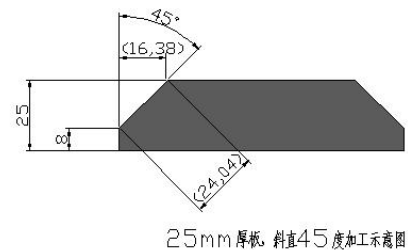
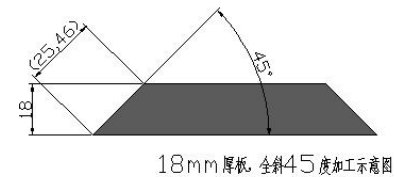
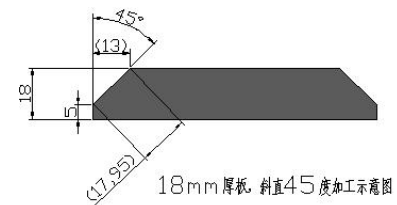
25. Electric equipment

- PLC control, input voltage 380v, 50Hz (Standard).
- 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.



26. Processing diagram

- The thickness of panel is 18mm, and the partial inclined with an Angle of 45 °.
- The thickness of panel is 18mm, and the full inclined with an Angle of 45 °.
- The thickness of panel is 25mm, and the partial inclined with an Angle of 45 °





Technical Data

Panel length:	≥150mm
Panel width:	≥120mm
Min. panel size:	150×120mm
Panel thickness:	18-25mm
Edge tape thickness:	0.6-2mm (half inclined) 0.6-2mm (Full inclined)
Feeding speed:	12/14m/min
Dust collector	φ125mm×6
Total power:	33kw
Overall dimension:	7700×1050×1650mm
Net weight:	3000kg

**Thanks for the attention!*

The company continuous to improve the product specifications and design details, the specifications are subject to change without notice. 20200914