

ALPHA 700 TWIN EDGEBANDER

with 2 Edging Stations EVA VERSION and PUR VERSION



Description

Two sets of gluing, fine trimming, scraping and buffing units make it easy and fast to switch between dark and light color glue which meet flexible edgbanding requirements. The cutters of one set of fine trimming and scraping units will be set back automatically when switching between glue pots. Set up time tends to be virtually zero. Low investment, big benefits.



Pre-milling	Pre-heating	Glue pot 1	Glue pot 2	End trimming	Automatic cutter fine trimming1	Automatic cutter fine trimming2	Corner trimming	Automatic cutter scraping1	Automatic cutter scraping2	Buffing 1	Buffing 2
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MACHINE SPECIFICATIONS

Panel Length	≥ 120mm
Panel Width	≥ 80mm
Min. Panel Size	120 x 80mm
Panel Thickness	10 - 60mm
Edge Tape Thickness	0.4 - 3mm
Feeding Speed	16/20/24 m/min
Power Supply	380V ; 50 Hz
Air Pressure required	0.7MPa
Operation system	7" Touch Screen
Dust Collector	Φ 125mm x 5
Total power	25 kW
Approx. Weight	2,560kg
Overall Dimensions	9,710 x 1,450 x 1,650mm

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Details

1. Machine body

- The heavy duty machine body is welded with thick laser cut steel plates and is processed through use of an advanced CNC machine for metal work. This enhances the stability as well as strength and reduces vibration. The machine net weight is 2560KG
- Some casting parts used on the machine guarantees long service life without deforming.



2. Professional assembly line

- The assembly is the final, important step that ensures better machine performance. Our professional assembly lines from machine body to small electrical components are done by experienced technicians that guarantee machine standardization and performance.



3. Quality control

- Advanced measuring equipment and strict QC systems also help to make sure the final machine is of high quality to ensure customer satisfaction.



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4. Pressure Beam

- Aluminum pressure beam provides excellent stiffness and long service life.
- The height of the pressure beam is adjusted automatically based on the work piece thickness by inputting the work piece information on the touch screen.
- Diagonal rollers connected compactly in a row presses work piece firmly to ensure the conveying of work piece without displacement.



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5. Conveyor

- Long straight semicircle guide rail is hardened through heat treatment before installation. The conveyor piece makes perfect contact with the guide rail and has 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 plate of high thickness and rigidity for longer service life and extra stability during the banding work.
- The conveyor motor makes starting at variable frequencies possible thus making it very stable. It is also equipped with a braking system. Easy to install or uninstall.



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6. Pre-milling

- Pre-milling with diamond cutter $\varnothing 125 \times H35 \times \varnothing 30$ Z3+3
Simple handling of the work piece edge before gluing offers the optimum basis of the binding effect.
- Two motors controlled pneumatically, milling panel edge intermittent. $2 \times 3.7\text{kW}$ motors; 200Hz
Rotating speed: 12,000 rpm.
- Fully covered dust cover.



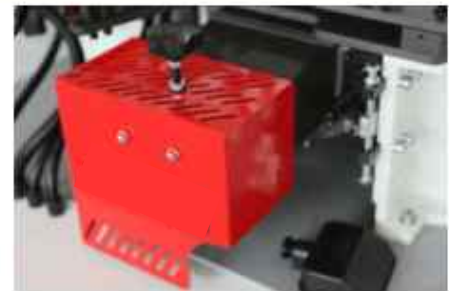
7. Pre-heating

- Heating the work piece edge. Assists in glue having a better adhesion, especially in humid or cold areas.



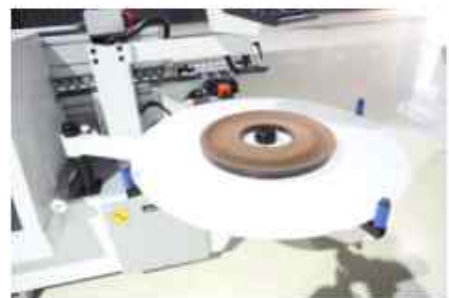
8. 2 sets of glue pot

- 2 Glue pots, one for dark color glue and one for light color glue with a flexible switch. Teflon coated glue pots for EVA hot-melt glue has a high capacity (5L)



9. 2 sets of edge tape supporter

- High quality edge tape support is at an optimum height to ensure smooth edge tape feed and gives a longer service life.



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10. Snipping

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



11. Pressure rollers

- One pre-pressure roller and four post pressure rollers ensure that the edging is pressed on board edge firmly.



12. Lubrication system

- Lubrication system meets the requirement for daily maintenance, easy operation which saves time and possible costs.



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.



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



14. 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 dust covers keep scraps from flying out of machine and or falling onto the machine bottom.



15. 2 sets of fine trimming units

- Each set has two motors (power: 0.55kW, frequency: 200hz, rotating speed: 12000rpm) 2 fine trimming milling cutters (standard R2) sets backwards automatically when changing between glue pots.
- Positioning device with high stiffness and independent cover on cutters for longer service life.



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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 R2 3Z
- Rotating angle is adjusted automatic with an electric sensor.



17. 2 sets of scraping units

- Scraping the edge with R2 cutters (standard), ensures high quality finish. Cutters set backwards automatically when changing between glue pots.
- Air blowing device blowing toward the scraping cutters on upside and underside for cleaning the scraps on cutter surface and cooling.



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18. 2 sets of buffing units

- Dual screen buffing with cloth structure is the final step to shine up dull edges.



19. Dust collection

- Independent suction hood ($\varnothing 125\text{mm}$) on processing units are fully covered: totally 5 sets.



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20. Safety device

Feed protection 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 exceeds the limit position, conveyor will halt immediately to prevent machine damage.



21. 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.



E-STOP

- Emergency safety switch – to stop machine in case of emergency.



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22. Control system

- 7" touch screen. Operation interface is intuitive and simple, available to control each component independently and generate statement accordingly.
- System languages: English, simplified Chinese, and traditional Chinese. Each working unit is controlled by independent frequency converter.



23. Electric equipment

- PLC control, input voltage 380v, 50Hz (Standard). Frequency converter with motor braking function;
 - Phase sequence protector
 - Most of electric components of the machine adopted international brands for high quality and generality.
- Permitting to be operated under the temperature of 0-40°C.



24. Energy saving

- Stand-by mode automatically engages when machine has been idle for a certain period of time (according to time set) Glue temperature will lower to prevent carbonization as well as rotating of glue roller in order to save energy.

