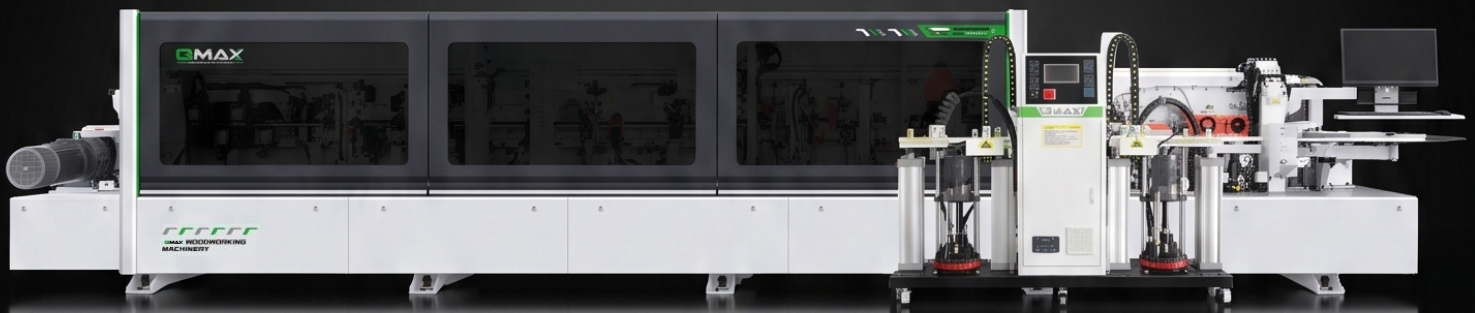


EDGE BANDING MACHINE V322



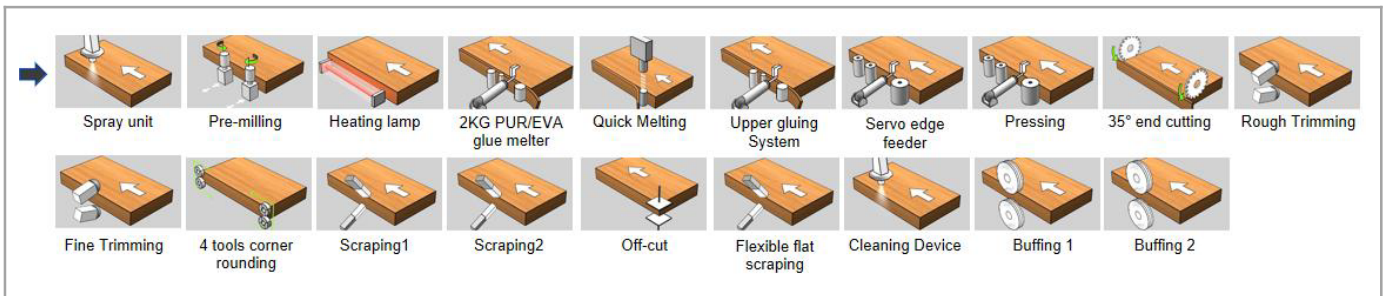
Heavy-Duty Fully Automatic Edge Banding Machine: V322



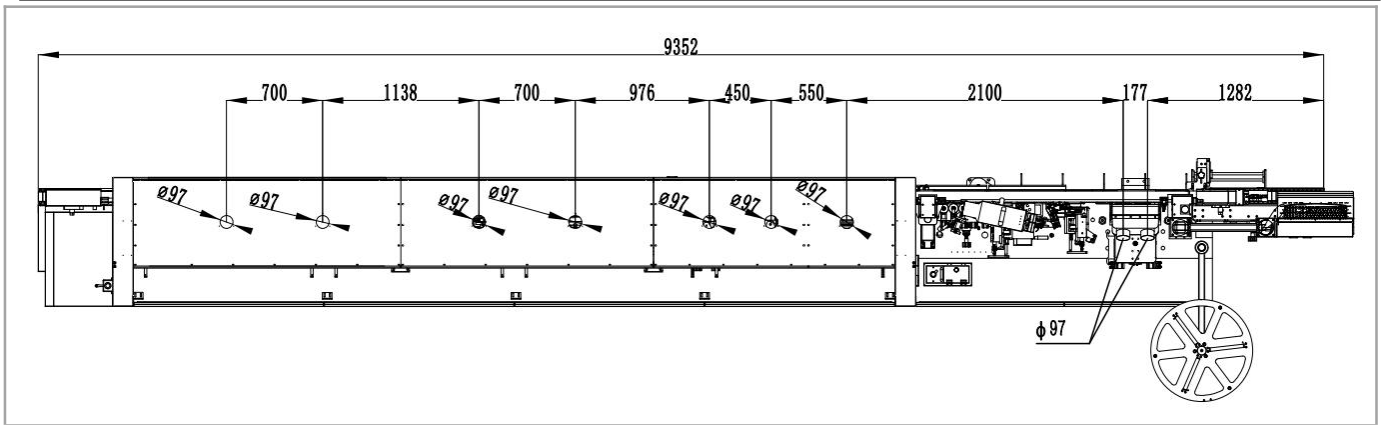
(Pic for reference only)



Edge Banding Process



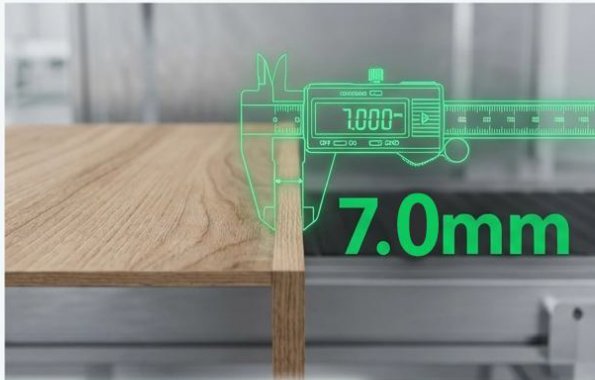
Top View



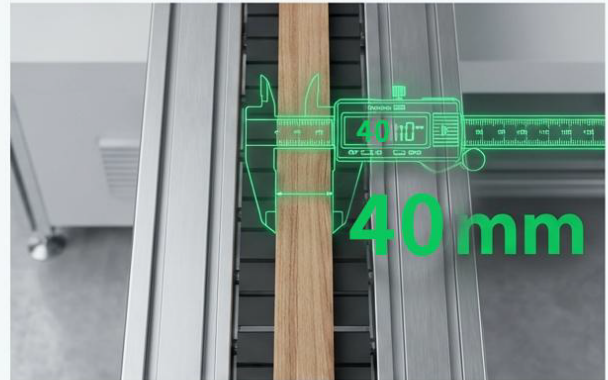
Technical data

Overall Dimensions	Approx. 9360x1000x1800mm
Lifting	CNC-controlled lifting
Total Power	Approx. 27.5 kW
Feeding Speed	18-23-26m/min
Edge Banding Thickness	0.4-3mm
Panel Thickness	7-45mm
Panel Length	≥ 120 mm
Panel Width	≥ 40 mm
Minimum Panel Size	Non-tracking: 120×40 mm Tracking: 300×40 mm
Tracking Feed Speed	≤ 23 m/min

Master Extreme Challenges with Ease



7.0mm Ultra-Thin Workpiece Processing
Handles ultra-thin workpieces with ease, delivering perfect edging without warping.



40mm Narrow Edge Banding
Breaks through standard size limitations, significantly expanding design freedom for furniture.

Super heavy-duty integrated machine frame: A Rock-Solid Foundation for Machining



One-Piece Molded Base

The innovative “U” -shaped base, combined with a reinforced worktable, provides absolute physical vibration resistance.

Non-Cantilevered Steel Guide Rails

A single, one-piece guide rail housing (annealed and machined) allows for continuous rail installation, completely eliminating mid-span cantilevers and dramatically improving stability.

Heavy-Duty Steel Press Beam and Lifting System

Is equipped with a dual-assurance system of “lead screw lifting + heavy-duty slide rails,” significantly increasing the press beam’s rigidity. Ensures absolutely uniform pressure on the wood panel and zero vibration during high rigidity operation.

Core highlight

- V-belts, Min.panel size: 300×40mm (Corner rounding On).
- Notch avoidance: satisfies both standard edge banding and notch edge banding processes, with one-touch screen change over.
- Steel guide rails are equipped with 25mm-thick steel plates, while the frame mounting panels are equipped with 22mm-thick steel plates.
- The steel guide rails and frame form an integrated structure: featuring a specially designed Heavy-duty machine frame, an integrated “U”-shaped base, and a continuous guide rail housing that is formed as a single unit with the frame, then annealed and machined. The curved edges and flat surfaces on both sides of the guide rails undergo high-frequency hardening for high stability.
- Heavy-duty, elevated Steel press beam: Compared to standard aluminum pressure beams, the heavy-duty, elevated Steel press beam significantly increases rigidity and strength, ensuring stability during high rigidity operation.
- The guide rail mount is integrated with the frame and has undergone annealing treatment.
- Heavy-duty lifting: Dedicated steel beam lifter, equipped with thickened lead screws and guide shafts, ensures precise vertical motion.
- The panel receives uniform pressure, resulting in better machining stability.
- Precision-ground pressure rollers: These rollers feature higher diameter accuracy, ensuring more stable board movement.
- Heavy-duty lifting: Designed specifically for the Steel press beam, it is equipped with reinforced lead screws and guide shafts. This ensures precise vertical movement, more uniform pressure distribution on the wood panels, and more stable processing.
- Conveyor motor: Equipped with a 7.5 kW planetary gear-reduced permanent magnet synchronous motor, it delivers smooth, powerful, and robust load transmission.

Description

Notched edge banding process

Quick change over with one key on the screen;
It can satisfy both standard edging and notch edging process.



Skeleton Door Edge Sealing Process



Narrow Board End Head Auxiliary Feeding

Specially designed for edge banding on narrow board end heads, with feeding that does not deviate, making feeding convenient, safe, and improving efficiency.



Heavy-Duty Base + Reinforced High-Strength Beam

Super-sized, integrated one-piece guide rail seat, heat-treated and annealed.
The guide rail is mounted along a continuous integrated base with no gaps in between, providing exceptional stability.
The significantly enhanced structural strength of the reinforced beam ensures its stability during high-intensity operation.



V-Belt feeding

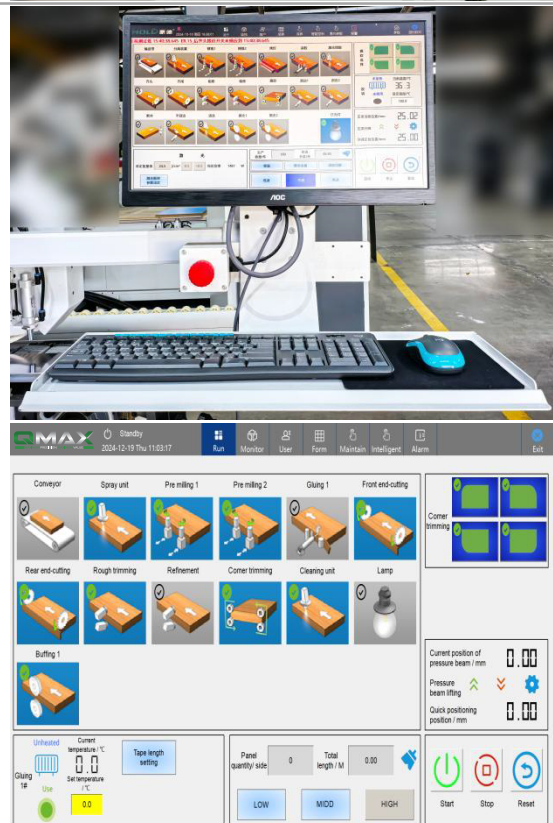
The workpiece is smooth and free of indentations.



Fully Intelligent Control System

- 1.Intelligent Heating (Automatically heats up according to preset time when machine is powered on);
- 2.Intelligent Insulation (Automatically maintains insulation when there is no incoming board for a set period of time);
- 3.Intelligent Sleep Mode (Customizable sleep timer to reduce energy consumption when machine is not in use);
- 4.Board Position Display;
- 5.Quick Positioning of Pressure Beam;
- 6.Fault Log;
- 7.Operation Log (Equipment running time, effective running time);
- 8.Production Report;
- 9.Piece Counting Function;
- 10.Can be customized to integrate with ERP/MES systems as per customer requirements.

Real-time data transmission, providing instant understanding of equipment status, and one-click production report generation.



Pre-Milling

(Maximum milling depth should be $\leq 1\text{mm}$)

Removes surface various defects from the panel edge to ensure optimal edge banding quality.

Height=65mm



Heating unit

When the temperature is low, heat the surface of the sheet to be glued before gluing to make the gluing stronger and the edge sealing more perfect.

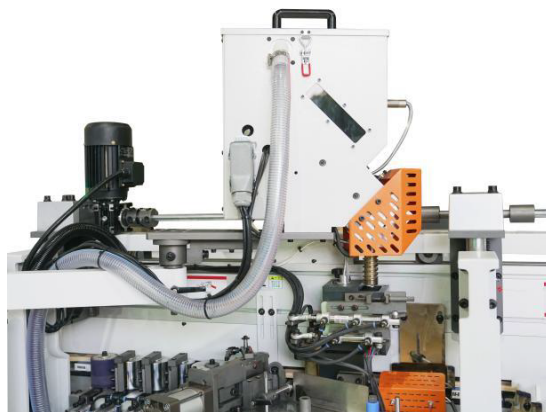


Gluing Unit 1 : 2KG PUR/EVA glue melter



Gluing Unit2 : Fast-Melting Adhesive + Upper Glue Pot Coating System + Automatic Glue Granule Supply

The adhesive amount is well-controlled, with good thermal conductivity, stable operation, uniform coating, stronger adhesion, and a more perfect edge sealing effect.



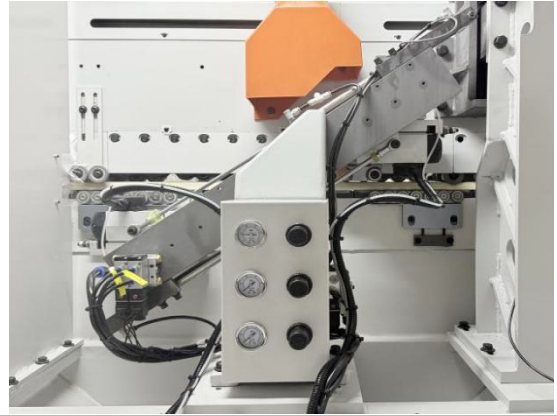
Pressing

Includes 4 steel wheels + 1 silicone wheel mode. Quickly remove glue adhered to the pressure application wheels. The silicone wheel ensures a more secure adhesion.



35° End cutting

Utilizes linear guide rails with sliders for high precision and durability. An automatic lubrication system extends equipment life. Pneumatic positioning enables accurate, stable trimming of short and thick panels.

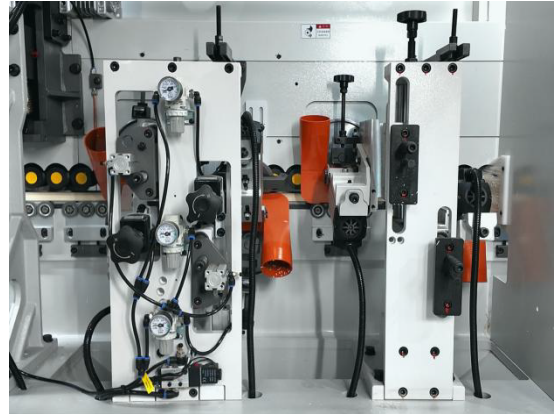


Rough Trimming + Fine Trimming

Visual adjustment;

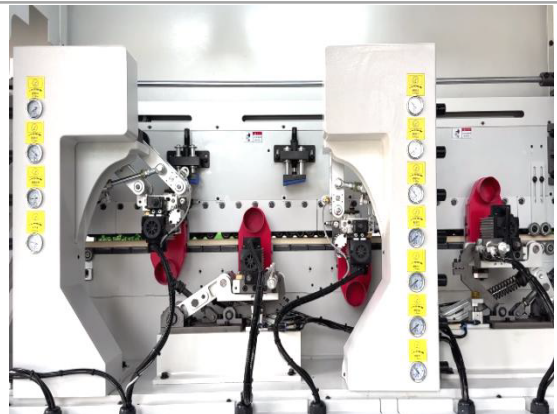
Rough Trimming: Quickly trim excess edge banding on the upper and lower sides of the edge banding to achieve a more perfect trimming effect.

Fine Trimming: Trim the excess edge banding protruding from the upper and lower sides of the edge banding to an R-shaped corner, so that the upper and lower edges of the edge banding are flush and smooth with the upper and lower surfaces of the wood board.



Four-Blade High-Speed corner rounding

Processes the chamfering of the board edges, ensuring smooth and aesthetically pleasing corners on all four corners of the board.

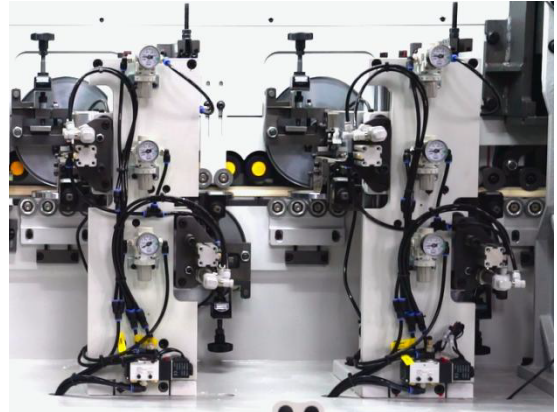


Different-shaped panels can be trimmed to fit



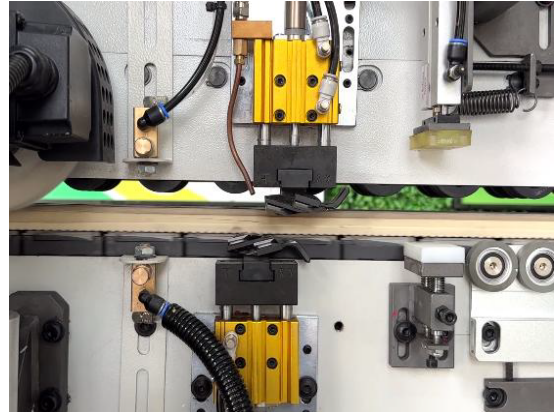
Two sets of cutter scraping

Visual adjustment;
90 degree horizontal cutter scraping mechanism, enlarged disc;
Quick change over with one button for thick and thin tape thicknesses, perfectly removing knife marks left by trimming knives and refinement rounding.



Off cut+ Flexible Flat Scraper + Cleaning Agent Device

Off cut: Solves issues where scraped edge banding interferes with the flat scraper's operation or directly wraps around the buffing unit, causing jams and motor burnouts.
Flexible flat edge scraping is utilized to remove excess hot melt adhesive from the workpiece surface. The cleaning agent device is used to dilute residual hot melt adhesive, making it easier to clean.



Auxiliary Drag Wheel

Prevents damage to the board surface, ensuring stable movement along the conveyor belt and enhancing the stability of the edge banding process.



Dual Quick-Release Buffing Units

Designed for different colors of board/glue combinations.
Ensures the edge banding is glossy and cleaner in appearance.



Permanent Magnet Synchronous Motor for Conveying

Permanent magnet motor, 7.5KW, provides strong and stable power transmission.



Double rows of gantry runners

Stainless steel inlet and outlet plates are equipped with auxiliary drag wheels as standard, which will not hurt the plates and will feed the plates more smoothly.

