

automatic glue pot edgebander with full corner rounding

minimax me 35tr

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*Photo may include optional equipment

Minimax ME 35TR

[Minimax ME 35TR Showcase Video](#)

Automatic Glue Pot Edge bander with Full Corner Rounding

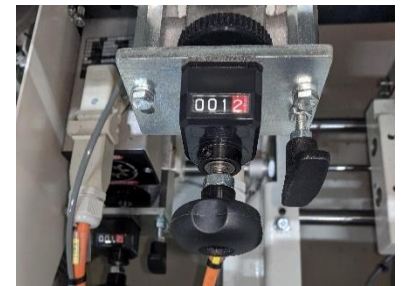
The Minimax ME 35TR is a 3-phase automatic edge bander with great flexibility for both thin and thick edges, intended to bridge the gap between a traditional small to mid-sized edge bander for woodworkers; to the more robust equipment used in the Classical line of products. Two of the key features are the pre-mill and corner rounding units. There is no competition in the U.S. market for such a small, versatile machine, with pre-mill or corner rounding that is so economical! This machine is meant to be used with melamine edges, PVC and ABS up to 3mm. This amazing machine boasts capacities usually only found on much larger and expensive machines. The ME 35TR comes with an anti-adhesive unit, pre-milling unit, end-cutting/corner rounding, top and bottom trimming, edge scraping, glue scraping, and buffing unit, with 3mm edge processing tooling in coils.

Premiered at the Xylexpo in Europe, the Minimax ME 35TR won first place under the “tooling machine” category for its ability to combine the corner-rounding and trimming features into a single tool, compact-sized machine with a minimal footprint. This applied technology makes this edge banding machine a must-have product for small to medium sized facilities, the ideal one-stop machine for facing and trimming the front and rear ends of panels, while at the same time, rounding the front and back edges all at an affordable price for every shop.



DIGITAL MECHANICAL READOUTS

Each station on the edge bander is easily adjustable and repeatable through the use of these digital mechanical readouts. Easily input the dimensions you are processing, and fine tune them simply. By taking note of the positions for the different panels you run, you can easily change the settings on the fly for any change in operation.



ANTI-ADHESIVE UNIT

Positioned before the pre-milling unit, the anti-adhesive unit prevents the glue from sticking to the upper and lower panel surfaces. This unit is complete with two spraying guns and a tank for the anti-adhesive liquid.

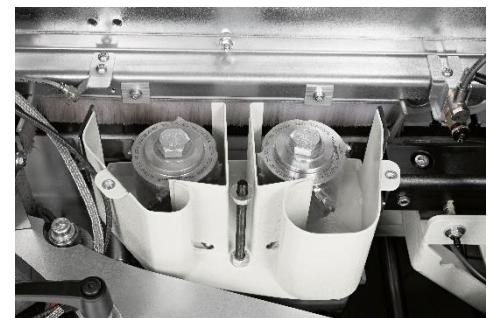
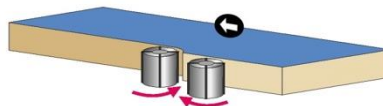


DEVICE FOR THE PANEL EDGE HEATING

This unit is set in the machine before the gluing unit to heat the panels for a better glue adhesion to optimize the edge banding. This device is particularly useful when working with cold environments and/or panels in stock.

PRE-MILLING UNIT

The Minimax ME 35TR Pre-mill unit is complete with two diamond cutters that are 80mm in diameter. This allows for a clean edge and a good lineal finish during the pre-mill process. Pre-milling comes with an independent exhaust and air blower for cleaning of the panel during this station. Vertical adjustment of pre-milling unit allows for even tool wear. Four manual shims of varying thicknesses (0.5 to 1 to 1.5 and 2mm) come with your ME 35TR for setting stock removal thickness.



GLUE POT UNIT

The Minimax ME 35TR edge bander features a glue pot with a quick heat-up system. This self-lubricating glue pot is Teflon coated to allow for easy clean up and replacement. The system easily applies the glue to the panel with a vertical glue spreading roller, and the temperature is adjustable via the PLC control. Additionally, the unit also has a device to automatically recover unused glue, and automatic lowering of the glue pot temperature after temporary non-use of the machine.



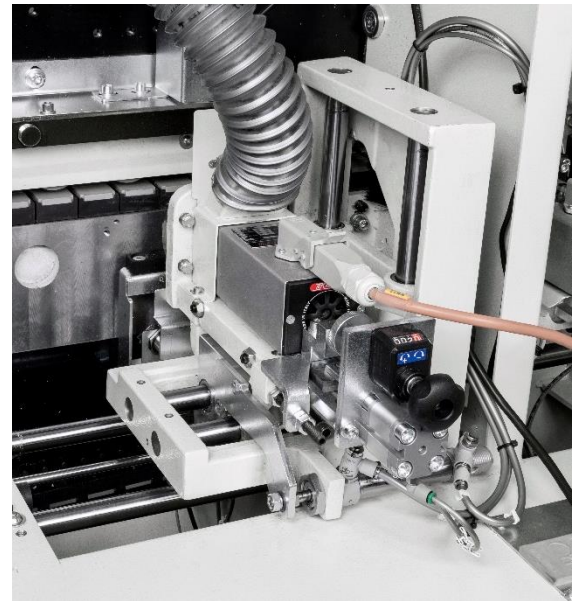
GLUE POT RAPID SUBSTITUTION KIT

This feature allows you to easily remove and replace the glue pot tank in the machine. This machine **does not come with a spare glue pot** which can be purchased with the machine as an optional accessory upon request (code 58.05.15).

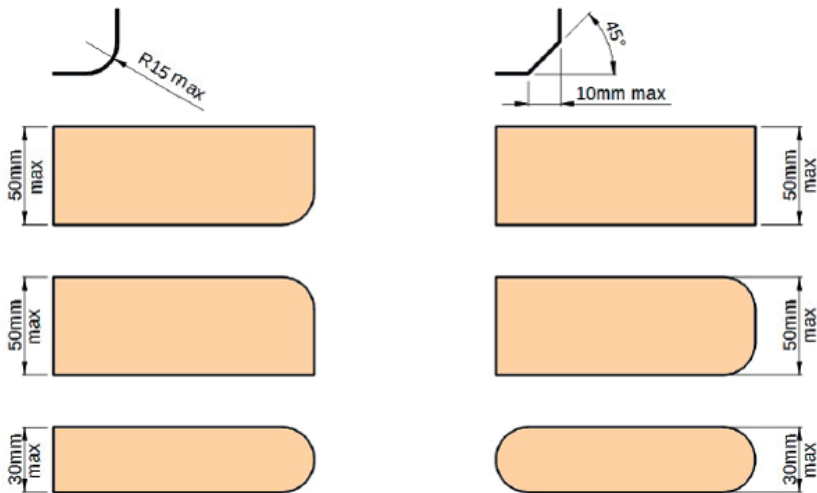


NEW FULL CORNER ROUNDING END-TRIMMING UNIT

During the process of removal of the front and rear exceeding edge; this two stage unit trims and rounds the edge in a single pass at the end of the panel. Driven directly from the control panel it is possible to work with only the end cutting function for thin tape, and 3mm thick banding or wood coils. This is the first unit in its class to have this advanced engineering, this small of a footprint and overall capabilities at a price point that allows the small to medium-sized shop to compete.



PROFILES TO BE MACHINED WITH COMBINED END CUTTING-ROUNDING UNIT



Note: The working quality is strictly linked to the panel characteristics



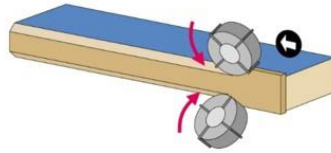
PLC CONTROLLER

The control system for the Minimax ME 35TR is an intuitive and easy to use interface. Positioned near the tape roll holder and infeed side of the machine, this allows for you to easily access all of the main functions. The PLC unit guides the operator during maintenance, cleaning, diagnostic operations and more.

TOP/BOTTOM TRIMMING UNIT

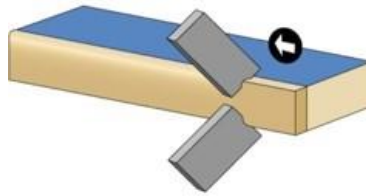
The Minimax ME 35TR is equipped with high frequency motors, horizontal and vertical copy wheels for accurate positioning of tools with reference to the cutting point. This unit is provided with 55.3mm diameter, combined cutters: the radius part of the cutter is used to trim 3mm radius edges and chamfered thin edges. The straight part of the cutter is used for the trimming of wood coil edges up to 3mm. Changing from radius edge to coiled wood tape is done easily by manually adjusting the cutters. The edge thickness is shown by two numeric readouts. The unit is equipped with independent exhaust systems.

- Upper/lower motor power	kW	2 x 0.35
- Widia cutters		Ø 55.3 mm Z3
- Cutters rotation speed	rpm	12,000
- Vertical/horizontal copying devices		rotating/rotating



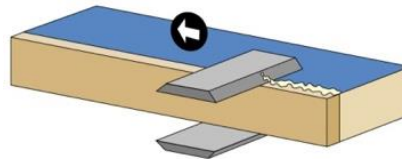
EDGE SCRAPING UNIT

High finishing quality of material edges thanks to the radius knives that help ensure the elimination of any marks left from the trimming unit tools, all equipped with front and vertical copy wheels, and a user-friendly device for exclusion of the unit when it is not in use.



GLUE SCRAPING UNIT

Ideal for removing all excess glue squeeze-out on the top and bottom surfaces of the panel. Engineered with a high-polish finish, the adjustable copy shoes are designed to help prevent scratching on delicate materials.

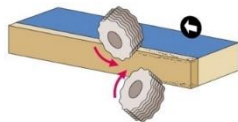


BUFFING/BRUSHING UNIT

The buffing station includes two independent motors running at 2,800 rpm for edge cleaning and polishing. The unit is tilted, and vertically adjustable to optimize the polishing and cleanliness of your finished panel.

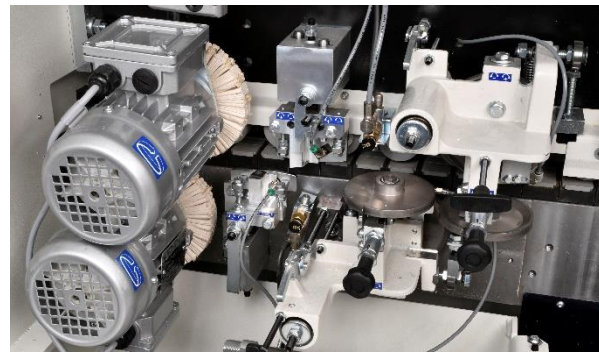
HIGH FREQUENCY MOTORS

Thanks to the high frequency motors of the end cutting unit and of the in-line top/bottom trimming units, the reliability of the Minimax ME 35TR is unmatched. With the absence of belts or other conventional driving systems, we have engineered less vibration into the unit, increasing reliability and precision over the life of your machine.



TRACK FEED MOVEMENT SYSTEM

The Minimax ME 35TR uses a track feed panel movement system that allows for precise and accurate positioning of the panel through each station. Designed for a perfect finish that eliminates transfer marks onto the work piece. 9 meter/min panel feed speed with track movement for increased productivity with dual presser wheels and panel roller support on the entire length of the machine. Monitoring of the panel position is done by an encoder for total work cycle control.



MACHINE CONFIGURATION

- Corner Rounding end cutting unit for cutting and rounding of the panel. (not suitable for processing of solid wood edges)
- Anti-adhesive unit positioned before pre-milling unit to prevent glue sticking to upper and lower panel surfaces.
- Device for heating of the panel edge to optimize edge banding in the case of cold working environments.
- PLC control system
- Panel edge trimming unit for straight or radius trimming on thick or thin materials; PVC, ABS, Melamine, Laminate or Coiled Wood Tape.
- Kit for glue pot rapid substitution that allows for the glue pot tank to be easily removed and replaced. (does not come with spare glue pot)
- Gluing unit with auto-sensory cooling to avoid burning of glue.
- Glue spreading roller with electrical resistance inside provides a uniform glue spread at maximum working temperature for the entire length of the roller.
- End cutting unit with high frequency motor for the highest-quality finish.
- Temperature monitoring of the roller.
- Top/Bottom trim unit with front and vertical copy shoes and high frequency motors for faster rotating speeds.
- Cutters are designed for straight or radius trimming with numerical readout setup.
- Radius edge scrape for use on PVC/ABS edges with manual exclusion of the device when not in use.
- Glue scraping unit for removal of excess glue on the panel edge/joint.
- Tilted, vertically adjustable brushing unit motors for the polishing and finishing on the panel edge and joints.

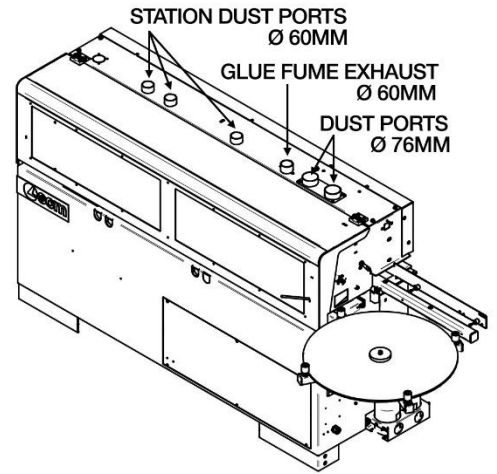
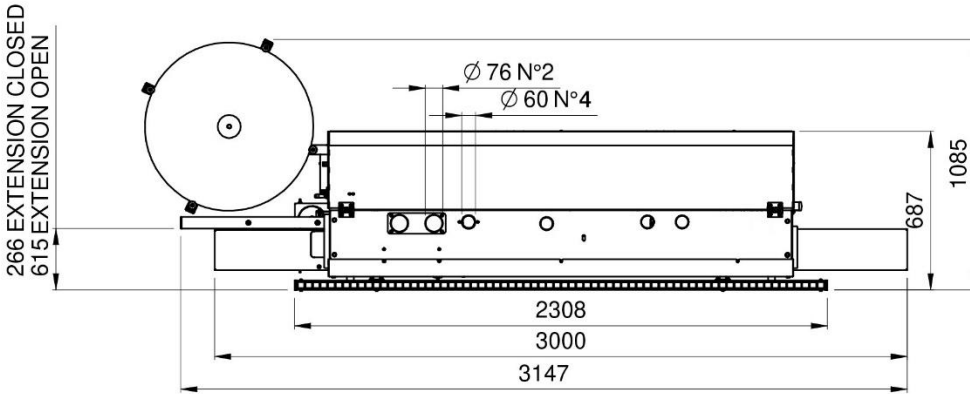
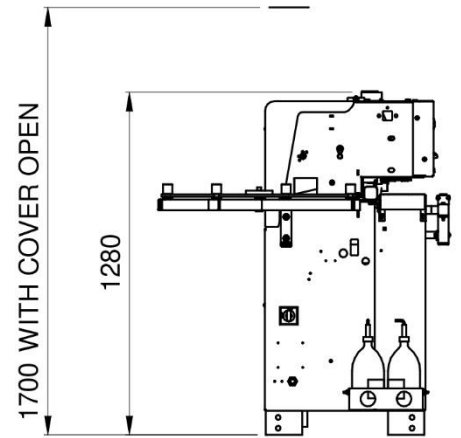
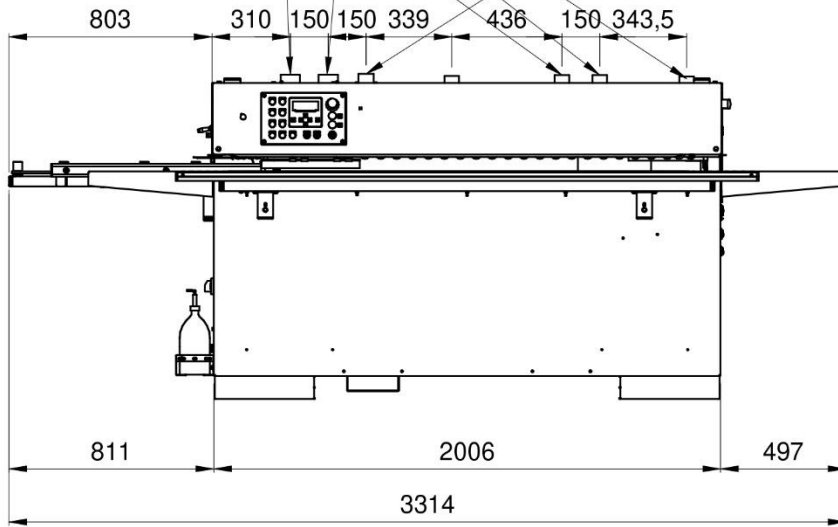
STANDARD FEATURES

- Control panel and interface on machine infeed side
- Machine frame made of high rigidity ribbed steel to guarantee excellent support for the operating units
- Top thick steel pressure beam with rubber coated wheels
- Track feed system
- Manual adjustment of top beam (panel height) with positioning of the operating units according to the selected panel thickness
- Numeric indicator of the selected panel thickness
- Specific glue smoke exhaust outlet
- Panel support roller which can be extended along the entire length of the machine
- Safety enclosure hood
- Electrical cabinet with new PLC and improved performance, 4-lines display, padlock capable main switch and overload protection push buttons

DIMENSIONS (mm)

ASPIRATION WOOD CHIPS

ASPIRATION FUMES



Minimax ME 35TR Automatic Edge bander with Corner Rounding	
R2.15.02	Minimax ME 35TR (With Corner Rounding and Pre-Mill) USA/CANADA 3-PHASE VERSION
93.07.58	230 Volt
93.12.15	Frequency 60Hz
58.04.44	BRUSHING unit
58.04.79	EDGE SCRAPING unit
58.04.34	GLUE SCRAPING unit
58.05.15	Kit for glue pot rapid substitution
58.05.09	Device for the panel edge heating
58.05.10	Anti-adhesive unit
58.04.35	Tools kit radius 3mm (instead of standard radius 2mm)
08.06.97	Pallet Packaging

Specifications are subject to change

TECHNICAL FEATURES

Worktable dimensions	118" x 20.6" (3000 x 525mm)
Worktable height	35.5" (904mm)
Thickness of rolled edges	0.4 - 3mm
Min. to max. panel height	8 - 50mm (.315" – 1.96")
Min. panel length/width with rolled edges	120/110mm (4.72"/4.33")
Feed speed	7 m/min (23 fpm)
Feed motor power	.73 Hp (.55 kW)
Operating temperature	68 - 374°F (20 - 190°C)
PREMILLING UNIT	
Motor power	3 Hp (2.2 kW)
Diamond cutter	Ø 80mm Z2 H=56
Blade rotation speed	7,200 rpm
Stock removal	0.5 / 1 / 1.5 / 2 mm
GLUE POT UNIT	
Motor power	.33 Hp (.25 kW)
Glue capacity	1.76 lbs. (.8 kg)
COMBINED END CUTTING-ROUNDING UNIT	
Motor power	.46 Hp (.35 kW)
Cutter	Ø 58mm Z4
Blade rotation speed	12,000 rpm
TRIMMING UNIT	
Upper/lower motor power	2x .47 Hp (.35 kW)
Widia cutters	Ø 55.3 mm Z3
Cutters rotational speed	12,000 rpm
Vertical/horizontal copying devices	Rotating/rotating
ELECTRICAL	
Motor	3-phase, 230v
Pneumatic operating pressure	6.5 bar
Exhaust outlets – Pre-Milling Unit (x2)	76mm (3")
Exhaust outlet - Glue Pot	60mm (2.36")
Exhaust outlets – Edgebander Unit Stations (x3)	60mm (2.36")