




TECNOVA[®]

AB

AUTOMATIC EDGE BANDER

Solutions and Technology
for the furniture industry



**An edgebander without compromises,
standard equipped with
all accessories needed for top quality edge-banding,
with an unbeatable
quality - price - performance
ratio**



Standard with:

- Individual static high frequency converter for each working unit
- Heated infeed guide (not available on machines with pre-milling unit)
- Fluorescent light inside protection cabin
- Feed jogging button to assist setting up
- Glue pre-heating system when the machine is not being used
- Timed pneumatic shut-off gate on glue roller, to keep the glue tank dust free.
- Front and rear tape overlap adjustment from control panel
- Automatic pneumatic gate to prevent panels being fed too close to one another
- Motorized pressure beam on long machines starting from model AB4.A
- Diamond cutters on the pre-milling unit
- Automatic air blow on the pre-milling unit to clean the side of the panel and to keep the gluing area dust free.
- Feed chain lubrication points
- Adjustable rollers support for large panels for the entire length of the machine.
- E. C. safety regulations
- Protection cabin with wide transparent polycarbonate windows for a complete view of the working units.





**A quality edge-banding
at a fast speed
12 - 16 - 18 mt/min**

AB5.RA-PLUS



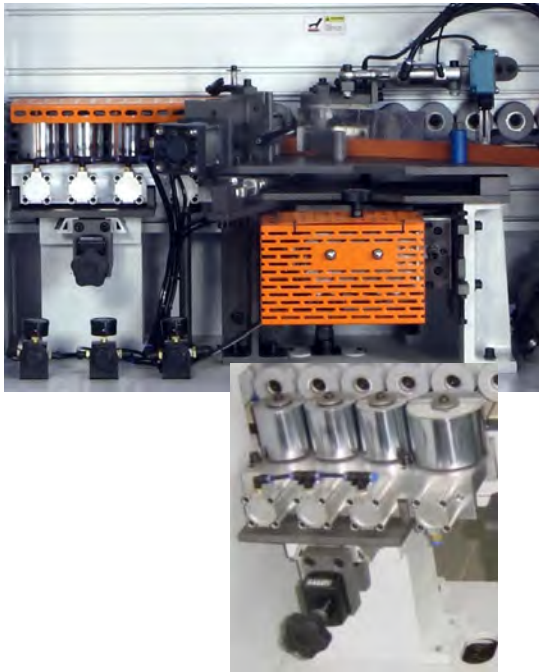
Quality is the first thing to look at ... as well as :
- reliability
- safety
- price

EASY-TO-USE CONTROL PANEL FOR THE OPERATOR

The AB edgebander is controlled by an electronic programmable control. The operator uses a touch screen positioned on the control panel at the machine infeed

- **The programmable logic control with PLC manages:**

- The pneumatic positioning of the working units
- The control of operating units and motors start-up
- The feeding panels spacing device
- The diagnostics to resolve possible errors
- Front and rear tape overlap adjustment
- All parameters related to the units and machine

A PERFECT AND RELIABLE EDGE GLUING

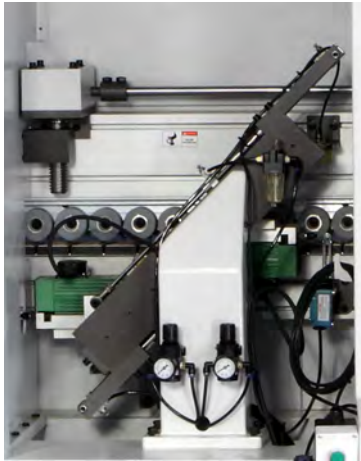
- **Gluing unit - Edge feeder**

- Heated guide at the machine infeed
- Edging without "stress" up to 3 mm edge thickness and up to 60 mm panel thickness
- Automatic panels spacing at infeed
- Automatic dust protection closing the glue roller gate when panel is not fed
- Glue pot with adjustable glue dispenser and with glue recirculation
- Protection/copying plate in front of the glue roller
- Glue pre-heating system when the machine is not being used
- The digital thermo-regulator enables the glue temperature to be lowered in the event of temporary interruption of production
- Powerful horizontal guillotine to pre-cut the edge in coils
- Automatic feeding of edges in coil
- 4 edge pressure rollers with independent, adjustable, pneumatic pressure ; the first one is power driven

WORKING UNITS

- **Pre-milling unit**

- Positioned before the gluing section to ensure perfectly machined panel edges, for an optimal edge-gluing surface
- Cuts up to 3 mm thickness
- 2 motors 2,2 kW, 12.000 rpm
- Automatic head jumping to prevent chipping
- Precise movement on over-dimensioned ball-bushing guides
- The 6 knife cutters are height adjustable, for an optimal use of the knives.
- Diamond cutters
- Adjustable in-feed fence with digital readout



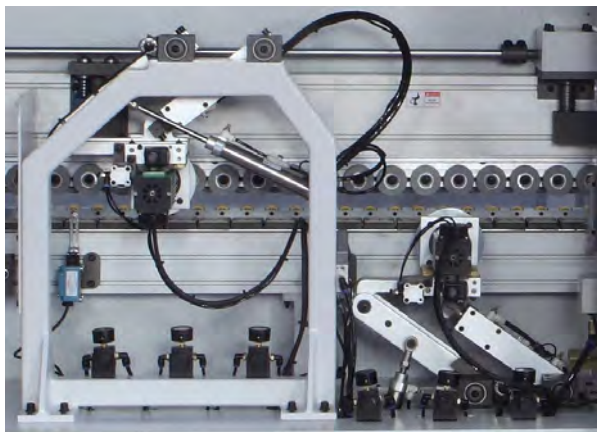
• End-trimming unit

- The cutting groups move on a prismatic guide system for precision and agility
- Strong structure, to ensure maximum stability
- 2 high frequency motors, 0,37 kW, 12.000 rpm
- 2 manually or pneumatically 0°-15° tilting blades
- Adjustable copying devices- Automatic oil drop lubrication on the top end-trimmer air cylinder



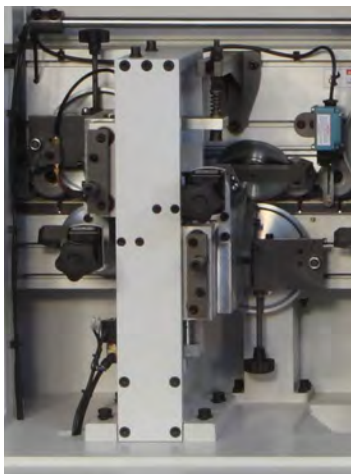
• Tiltable edge trimming unit

- Robust structure, for smooth, vibration-free machining of thick edges
- Built on an independent frame, strongly fixed to the machine base to avoid vibration
- 2 high frequency motors, 0,7 kW, 0°-15° tilt adjustment, 12.000 rpm
- Vertical and horizontal, adjustable, large diameter rotating copying disks
- Fast manual set up to change trimming operations
- Fast pneumatic setting from control panel on request



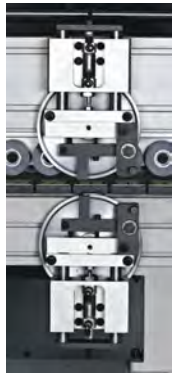
• Corner rounding unit

- 2 motors 0,37 kW each, 12.000 rpm
- For rounding corners of thick PVC/ABS edges, in a single pass, on straight profile panels and post-formed panels at 90° and 180°.
- The profile form is directly copied from the work-piece by a tracing disc and transferred to the trimming cutter.
- Vertical and horizontal copying system.
- Adjustable cutting position
- 4 different profiles to choose on the touch screen.



• Edge scraping unit

- To super-finish the PVC/ABS lower and upper edges with a thickness of 2-3 mm, rounded previously by the trimming unit.
- Robust structure to eliminate vibration
- Complete with adjustable horizontal and vertical copying discs
- The 2 knife cutting positions are adjustable micrometrically
- Vertical and horizontal, adjustable, large diameter rotating copying disks
- The group is standard equipped with air blow to remove the shavings



• Glue scraper

- To finish plastic edges
- With 2 reversible and disposable knives
- Large diameter vertical rotating copying discs
- Pneumatic exclusion



• Buffing unit

- For edge buffing and polishing.
- Large diameter supporting bars.
- 2 adjustable motors.
- Cotton layer discs



• Grooving unit

- To carry out through or timed grooves.
- 2,2 kW high frequency motor power (12.000 rpm)

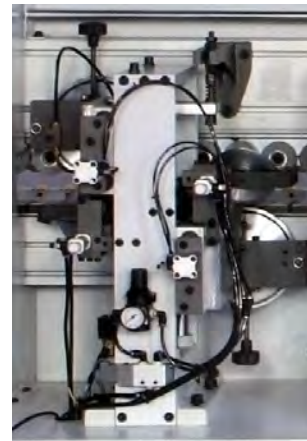


• Glue pre-melting unit

- Device for pre-melting with 5 Kg container for glue in granules and glue pot with approximately 0,5 Kg capacity
- Granting a constant and optimal glue temperature in any working condition.

• Double tape coil holder

- Allows edge exchange without removing the coil not in use
- Includes 2 sensors with a selecting switch in order to detect the edge, when the edge is finished, a sound alarm automatically starts



• Pneumatic quick-set for changing edge thickness



• Liquid spraying units

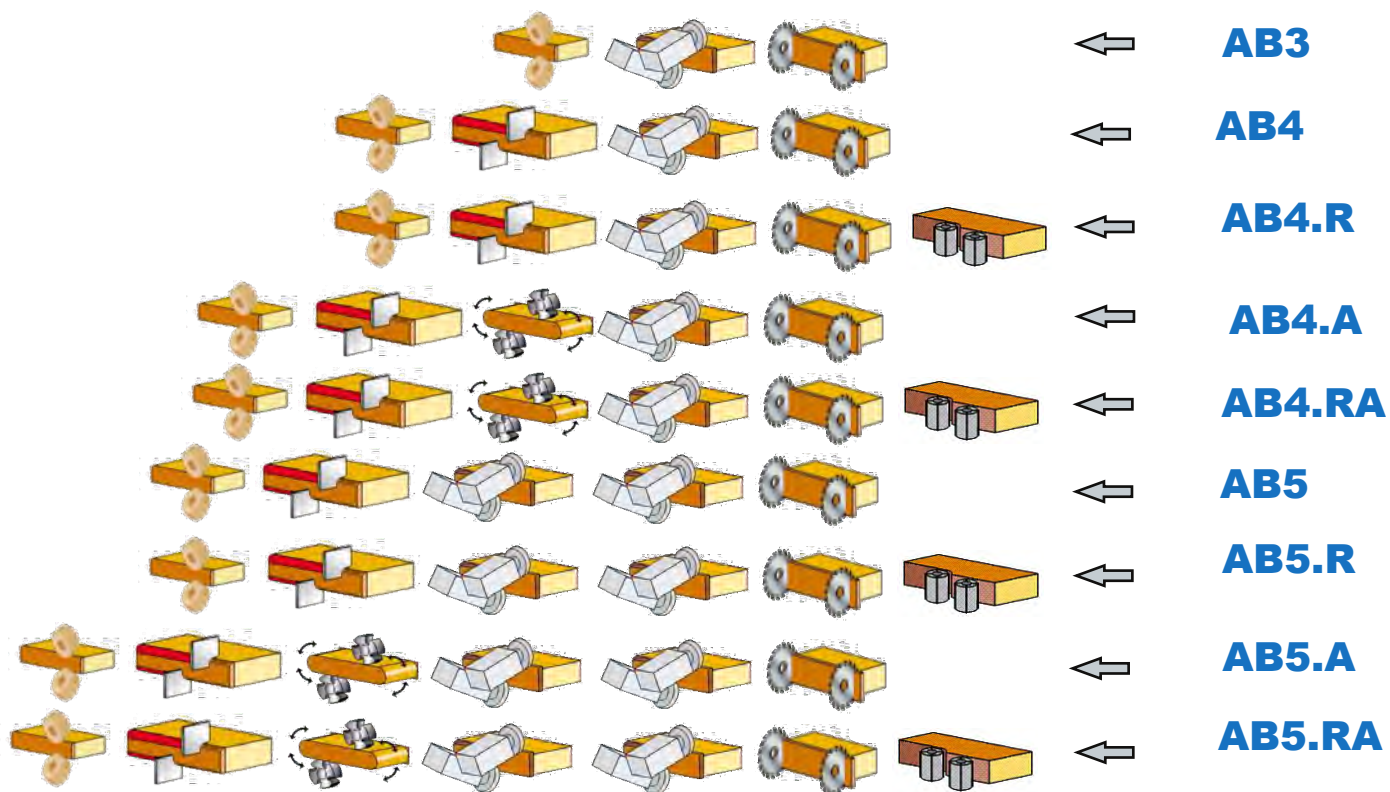
- These units are used to spray a special liquid agent on the top and bottom face of the panel edge.
- Positioned before the pre-milling unit and before the buffing unit.
- The loose glue residue is removed by the application of the cleaning agent and subsequent buffing.
- The radius is polished to match the surface gloss.



AB4.R

AB

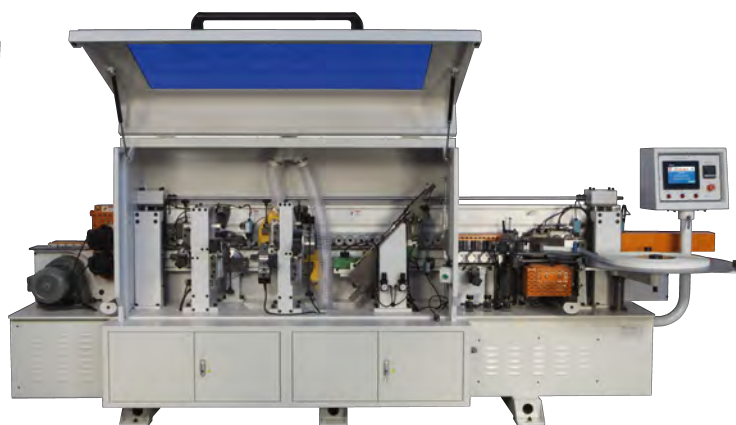
SOLUTIONS FOR YOUR NEEDS



AB3



AB4



AB - EDGE BANDER

TECHNICAL DATA

Panel feed speed	m/min	12 - 16 - 18
Working height	mm	10 - 60
Edge thickness in coils	mm	0,4 - 3
Edge thickness in pre-cut strips	mm	0,4 - 3
Minimum working dimensions (with edges in coils)	mm	60 x 300(L) - 150x150 (L)
Static high frequency converters	Hz	200
Pneumatic system pressure	Bar	7

GLUE POT

Heating power	kW	2,2
---------------	----	-----

PRE MILLING UNIT

Maximum cutting section	mm	60 (i.e. 3 x20mm)
Power of the 2 motors (200 Hz)	kW	2 x 2.2
Rotation speed of the cutters	RPM	12.000
Maximum working height	mm	60
Maximum cutting height with standard cutters	mm	30

END TRIMMING UNIT

Power of the 2 motors (200 Hz)	kW	2 x 0,37
Rotation speed of the blades	RPM	12.000
Tilting position		2 - 15 degrees

TOP AND BOTTOM EDGE TRIMMING UNIT

Power of the 2 motors (200 Hz)	kW	2 x 0,7
Rotation speed of the cutters	RPM	12.000

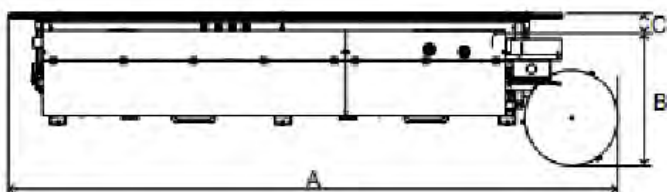
CORNER ROUNDING UNIT

Power of the 2 motors (200 Hz)	kW	2 x 0.37
Rotation speed of the cutters	RPM	12.000
Maximum working height	mm	60
Minimum working length	mm	60 x 300 (L) - 150 x 150 (L)

BUFFING UNIT

Power of the 2 motors	kW	2 x 0,37
Rotation speed of the buffers	mm	1.400

	A mm	B mm	C mm	Height mm	Net weight Kg	Gross weight Kg
AB3	3.549	1.000	400	1.600	1.340	1.380
AB4	3.998	1.000	400	1.600	1.432	1.482
AB4.R	4.994	1.000	400	1.600	1.750	1.810
AB4.A	5.206	1.000	400	1.600	1.775	1.835
AB4.RA	6.151	1.000	400	1.600	1.960	2.020
AB5	4.472	1.000	400	1.600	1.580	1.640
AB5.R	5.397	1.000	400	1.600	1.940	2.010
AB5.A	5.659	1.000	400	1.600	1.900	1.970
AB5.RA	6.604	1.000	400	1.600	2.100	2.200



ADVANTA International S.r.l

TECNOMA woodworking

Via Romania 20, Rimini, Italy

E-mail: tecnoma@tecnomaweb.com
www.tecnomawood.com

DISTRIBUTOR

 **TECNOMA®**