

EDGE BANDING MACHINES

Compact Automatic Edge Banding Machine

Casadei Industria E321

Compact automatic edge banding machine with EVA glue pot and toothed belt feed, for gluing, end trimming and top / bottom flush trimming in a single pass, on panels 10–45 mm thick with edges 0.4–2 mm thick.

MODEL E321

7 m/min

FEED SPEED

10–45 mm

PANEL THICKNESS

0.4–2 mm

EDGE THICKNESS

242 kg

NET WEIGHT



- 1 Feed belt height adjustment handwheel with indicator
- 2 Working unit hood
- 3 Control panel with display and LED buttons

- 4 1800 mm work table with adjustable rollers
- 5 Compressed air connection with regulator
- 6 Adjustable anti-vibration feet

/ Application & Use

The Casadei Industria E321 is a compact automatic edge banding machine for straight furniture panels of particleboard, MDF and plywood, 10–45 mm thick, intended for small and medium joinery workshops with limited space, for one-off pieces and small batches. In a single pass it glues the edge, trims the ends and flush trims top and bottom. It applies ABS, PVC, melamine and veneer edges 0.4–2 mm thick from coil, at a feed speed of 7 m/min. The minimum panel length is 220 mm on the edged side and the minimum width 110 mm.

/ Key Features

- Toothed belt feed with steel insert
- Teflon-coated EVA glue pot, motorised glue roller
- Pneumatic front / rear end trimming
- Top / bottom flush trimming, radius / chamfer 2 mm
- Infeed guide with 3 positions: 0, 1 and 2 mm
- PLC control with illuminated LED buttons
- 1800 mm work table with 7 adjustable rollers

/ Standard Equipment

- PLC control: automatic temperature control with stand-by and temperature indicator, illuminated LED buttons for unit selection, diagnostic messages, statistics (operating hours, edge metres)
- Automatic panel feed on a toothed belt with steel insert; height adjustment by handwheel with numerical indicator
- Pneumatic coil shear; EVA glue pot with 6 heating elements (4 in the glue pot, 1 in the turret, 1 in the roller)
- 3 pressure rollers: 1 rubber-coated, 2 nylon
- Pneumatic front / rear end trimming with shear and tracking system, can be excluded from the control panel
- Flush trimming with one motor, Z4 cutters 75 mm with disposable Widia knives, vertical disc copiers with numerical indicators
- Work table with sliding guides; extensible front support for large panels
- Adjustable anti-vibration feet; CE conformity

/ Machine Details



TEMPERATURE DISPLAY, UNIT SELECTION WITH LED BUTTONS AND EMERGENCY STOP



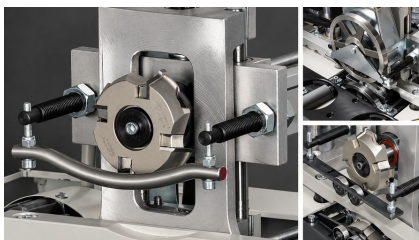
TOOTHED BELT WITH STEEL INSERT FOR PANEL FEED



WORKING UNITS UNDER THE HOOD: EDGE FEED, GLUE ROLLER, PRESSURE ROLLERS AND END TRIMMING



PNEUMATIC SHEAR FOR COIL EDGES AND GLUING AREA



TOP / BOTTOM FLUSH TRIMMING WITH 75 MM Z4 CUTTERS AND DISC COPIERS

/ Technical Data

Model	E321
Panel thickness	10–45 mm
Edgebanding thickness	0.4–2 mm (coil)
Minimum panel dimensions	length min. 220 mm (edged side); width min. 110 mm
Compatible edgebanding materials	ABS, PVC, melamine, veneer (coil)
Feed speed	7 m/min
Gluing system	EVA glue pot, Teflon-coated, 1 kg; 6 heating elements (4 in the glue pot, 1 in the turret, 1 in the roller), approx. 1.49 kW; heat-up 14–16 min (4–6 min from stand-by); motorised glue roller
Edgebanding feed	coil diameter max. 600 mm; pneumatic coil shear
Edgebanding pressure zone	3 pressure rollers: 1 rubber-coated, 2 nylon
End trimming	pneumatic, front / rear, with shear and tracking system; can be excluded from the control panel
Longitudinal trimming (rough / fine)	top / bottom flush trimming, one 0.37 kW motor, tool speed 9000 rpm (50 Hz); Z4 cutters 75 mm with disposable Widia knives; combined radius 2 mm / chamfer profile; vertical disc copiers with numerical indicators; optional: top flush trimming for nesting panels; set of R = 1 mm inserts instead of the standard ones
Control system	PLC; control panel with display and illuminated LED buttons for unit selection; automatic temperature control with stand-by and temperature indicator; diagnostic messages; statistics (operating hours, edge metres)
Electrical supply	400 V / 50 Hz / 3 phases + N; optional: 230 V / 50 Hz / 3 phases or 1 phase; transformer for networks without neutral (required when the supply has no neutral)
Compressed air requirements	compressed air connection with regulator
Machine weight	242 kg (net)

/ Options on Request

- Special voltages: 230 V / 50 Hz / 3 phases, 230 V / 50 Hz / 1 phase
- Transformer for networks without neutral (required when the supply has no neutral)
- Top flush trimming for nesting panels
- Set of R = 1 mm inserts instead of the standard ones
- Packing: case, case with VCI bags, seaworthy packing with VCI bags, wooden base with VCI bags

Data refer to the standard E321 configuration. Installed power, electrical current, compressed air consumption, dust extraction and overall dimensions are defined in the quotation, together with the supplied configuration and included options. Technical data may be updated without prior notice. Images are illustrative.

SUPPLIER

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