EDGE BANDING MACHINES

Automatic Edge Banding Machine

Casadei Industria E550 CRF

Automatic edge banding machine with lower EVA glue pot, chain feed, pre-milling, automatic end trimming, 3-position flush trimming and corner rounding, for panels 8–50 mm thick and edges 0.4–3 mm thick.

MODEL E550 CRF

9 m/min	8–50 mm	0.4–3 mm	6.27 kW
FEED SPEED	PANEL THICKNESS	EDGE THICKNESS	INSTALLED POWER



/ Application & Use

The Casadei Industria E550 CRF is an automatic edge banding machine for straight panels of particleboard, MDF, plywood and solid wood, 8–50 mm thick, for kitchen, bedroom and office furniture, in small and medium batch production in furniture factories and workshops. It applies ABS, PVC, melamine and veneer edges 0.4–3 mm thick, from coil or in strips, at a feed speed of 9 m/min; solid wood strips up to 5 mm thick are fed manually. The panels are fed on a steel chain with rubber pads and a lubrication system.

Pre-milling uses two independently moving 0.75 kW high-frequency motors with diamond cutters Ø 60 x 54 mm at 12000 rpm; the infeed guide has micrometric adjustment of 0–2 mm with a numerical indicator. The lower EVA glue pot, Teflon-coated and holding about 1 kg, has 6 heating elements totalling about 1.49 kW and heats up in about 14–16 min (4–6 min from stand-by). The edge is fed in sync with the panel, cut from the coil by a pneumatic shear with horizontal oscillating movement and pressed onto the panel by two floating pressure rollers.

Automatic end trimming with two 100 mm blades works at the front and rear with copiers and chip collection. Flush trimming works in 3 positions with two 0.37 kW high-frequency motors and a combined radius / chamfer profile of 2 mm; corner rounding for plastic edges uses a Z4 diamond cutter with a 2 mm radius. The machine is controlled from a 7-inch touch panel, and three free positions allow optional units to be added later.

/ Key Features

- Panels 8–50 mm; edges 0.4–3 mm from coil or strips
- Solid wood strips up to 5 mm, manual feed
- Feed speed 9 m/min on a steel chain with rubber pads
- Pre-milling 2 x 0.75 kW, diamond cutters Ø 60 x 54 mm
- Lower EVA glue pot, approx. 1 kg, 6 heating elements
- 3-position flush trimming, radius / chamfer 2 mm
- Installed power 6.27 kW, 400 V / 3 phases
- 3 free positions for optional units

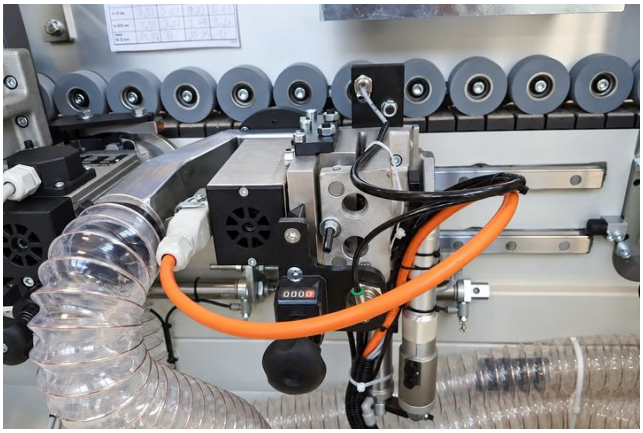
/ Standard Equipment

- 7-inch touch panel; PLC with encoder, diagnostics and statistics
- Steel chain feed with rubber pads and lubrication system
- Pressure beam with two rows of rubber rollers, height adjustment by handwheel with metric indicator
- Infeed guide with micrometric adjustment 0–2 mm and numerical indicator
- Synchronised edge feed; pneumatic coil shear with oscillating movement
- Two floating pressure rollers: aluminium (Ø 80 mm) and rubber-coated
- Automatic front / rear end trimming with copiers and chip collection
- Z4 cutters 75 mm with disposable Widia knives; vertical disc copier
- Corner rounding for plastic edges, Z4 diamond cutter, radius 2 mm
- Tool positioning with numerical indicators
- Extensible front support for large panels; CE conformity

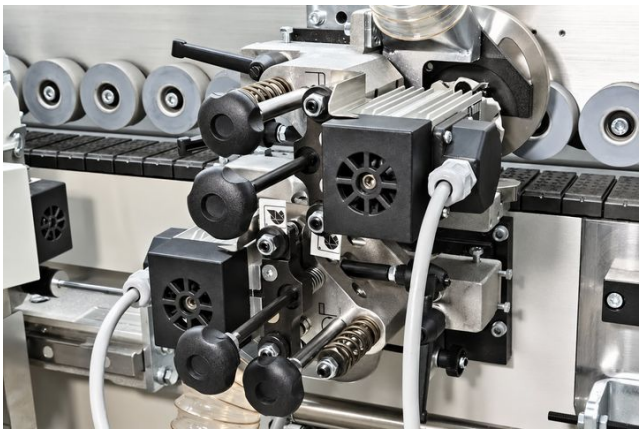
/ Machine Details



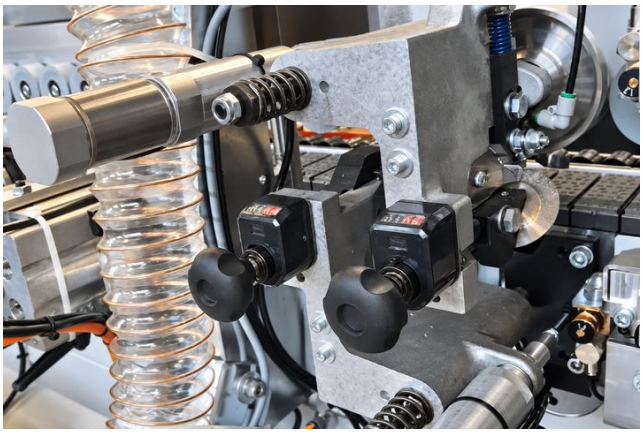
EVA GLUE POT, EDGE FEED AND PRE-MILLING EXTRACTION



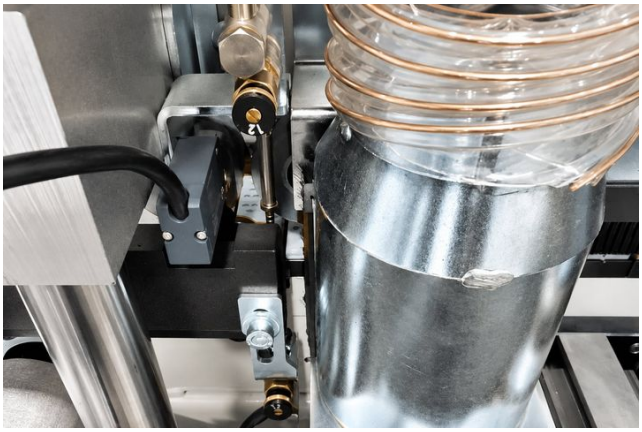
WORKING UNIT ON LINEAR GUIDES WITH NUMERICAL INDICATOR



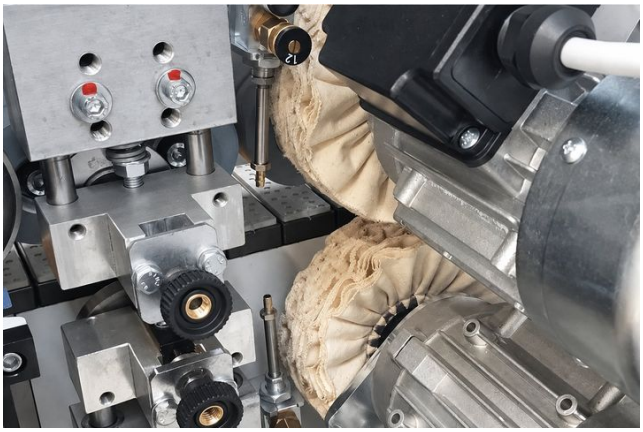
FLUSH TRIMMING WITH TWO HIGH-FREQUENCY MOTORS



TOOL POSITIONING WITH NUMERICAL INDICATORS



COPIER DETAIL AND EXTRACTION CONNECTION



BUFFING UNIT (OPTIONAL)

/ Technical Data

Model	E550 CRF
Panel thickness	8–50 mm
Edgebanding thickness	0.4–3 mm (coil or strips); solid wood strips max. 5 mm, manual feed, depending on wood hardness
Minimum panel dimensions	length min. 110 mm (with standard end trimming and with VR / VS 2 end trimming); width min. 70 mm
Compatible edgebanding materials	ABS, PVC, melamine, veneer (coil); solid wood strips
Feed speed	9 m/min
Pre-milling	2 x 0.75 kW HF motors with independent movement; diamond cutters Ø 60 x 54 mm, 12000 rpm; removal max. 2 mm (depending on material); infeed guide with micrometric adjustment 0–2 mm and numerical indicator
Gluing system	lower EVA glue pot, Teflon-coated, approx. 1 kg; 6 heating elements (4 in the glue pot, 1 in the turret, 1 in the roller), approx. 1.49 kW; heat-up approx. 14–16 min (4–6 min from stand-by); quick and complete cleaning
Edgebanding feed	coil diameter max. 800 mm; synchronised with the panel; pneumatic coil shear with horizontal oscillating movement
Edgebanding pressure zone	2 floating pressure rollers: first aluminium (Ø 80 mm), second rubber-coated
End trimming	automatic, front / rear, straight cut, with copiers and chip collection, independently selected from the PLC; 2 blades of 100 mm; HF motor 0.22 kW, 12000 rpm
Longitudinal trimming (rough / fine)	3-position flush trimming, 2 x 0.37 kW HF motors, 12000 rpm; Z4 cutters 75 mm with disposable Widia knives; combined radius / chamfer profile 2 mm; vertical disc copier
Corner rounding	for plastic edges; Z4 diamond cutter 50 mm, radius 2 mm, on linear guides with copiers; motor 0.22 kW, 12000 rpm; panel min. 10 mm thick, min. 140 mm long
Buffing	optional: buffing unit
Top pressure system	pressure beam with two rows of rubber rollers on bearings; height adjustment by handwheel with metric indicator
Control system	7-inch touch panel with graphic interface for programming and diagnostics; PLC with encoder: automatic temperature control with stand-by, diagnostic messages, statistics (operating hours, edge metres)
Total installed power	6.27 kW
Electrical supply	400 V / 3 phases; rated / max. current 9.05 / 14.56 A; recommended fuse 16 A
Compressed air requirements	320 Nl/min at 7–8 bar (peak 1150 Nl/min)
Dust extraction: connections and requirements	main: Ø 150 mm, min. 1270 m³/h, 20 m/s; pre-milling: 2 x Ø 80 mm, min. 730 m³/h, 20 m/s; glue fumes: Ø 60 mm
Overall dimensions (L × W × H)	3643 x 1111 x 1649 mm; width 1407 mm with extended front support

Data refer to the standard E550 CRF configuration. The machine weight, the scraping and spraying units, the supplied configuration and included options are defined in the quotation. Technical data may be updated without prior notice. Images are illustrative.

SUPPLIER

PROMACH LTD, Str. Kolednitsa 2, et. 1, 7002 Ruse, Bulgaria — VAT BG208556296

CONTACT

www.promach-machinery.com | contact@promach-machinery.com | BG +359 87 6832151 | RO +40 755 023 024