Casadei INDUSTRIA

E450
E450 PM
E450 PMVR

Automatic Edgebander with chain feeding system

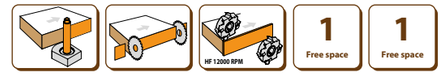
E450 Automatic edgebander with chain feed

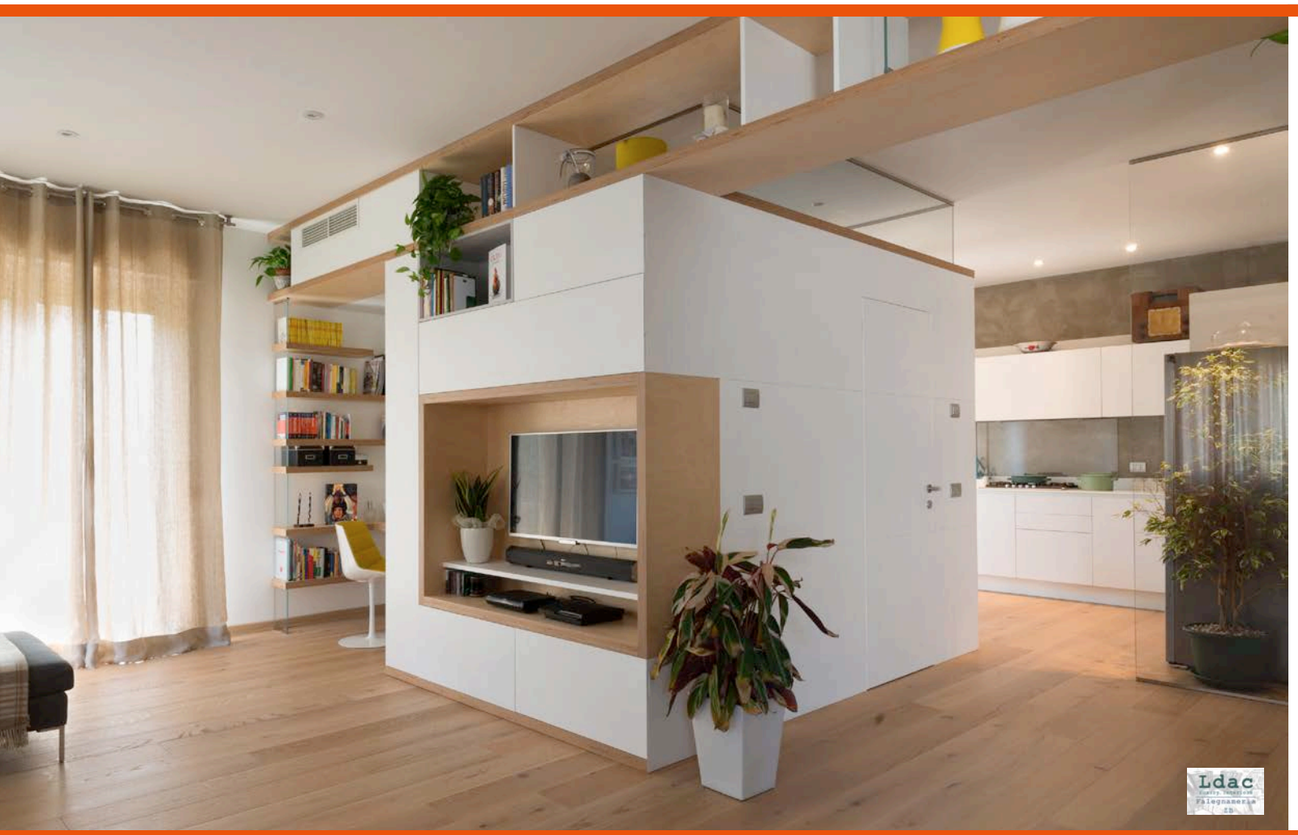
Professional finishing quality in only 2,30 metres length.

Maximum finishing quality	☑ Chain feeding system ☑ Pre-milling ☑ 2 free spaces for finishing units
High performance	☑ 7 m/min feed speed ☑ 45 mm panel height ☑ 3 mm edge coils
Minimum space occupied	☑ 2,30 m
Easy to use	☑ unit settings with a piece of edge ☑ easy and intuitive use of machine

E450

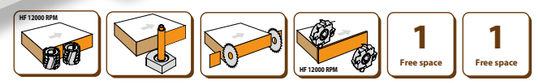
- Chain feeding system
- Logic functioning controlled by PLC
- 2 free spaces for finishing units





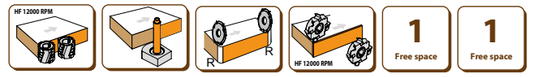
E450 PM

- Pre-milling unit with 2 diamond cutterblocks rotating in opposite directions to obtain an invisible glueing line

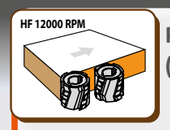


E450 PMVR

- VR End Trim unit with vertical rounding function (Opt)



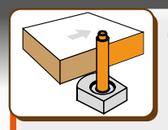
E450 PM



Pre-milling unit (E450 PM version)

INVISIBLE GLUEING LINE

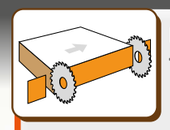
- DIAMOND tools Ø = 60 mm H = 52 mm
- HF motors 200 Hz – 12.000 rpm – 0.75 kW (each)
- Dedicated suction system and blower for panel cleaning before glueing



Glueing unit

PERFECT GLUEING, QUICK AND PRACTICAL SET-UPS

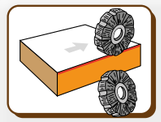
- 6 heating elements to guarantee uniform glue temperature.
- Motorized glue spreading roller with an internal electrical heating element.
- Teflon-coated glue pot to permit complete and rapid cleaning.



End Trimming unit

PERFORMANCE AND VERSATILITY

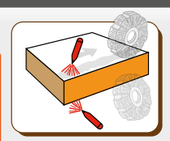
- 2 blades for perfect front/rear end trimming on all types of edges.
- Operating cycle controlled by PLC.
- Blade rotation speed - 12.000 rpm
- Integrated suction system.



Buffing unit (optional)

BRIGHT AND SHINYEDGES

- Uniform colouring and finishing even on processed edges.
- 2 motors for buffing unit diameter 120 mm rotating at 1.400 rpm.



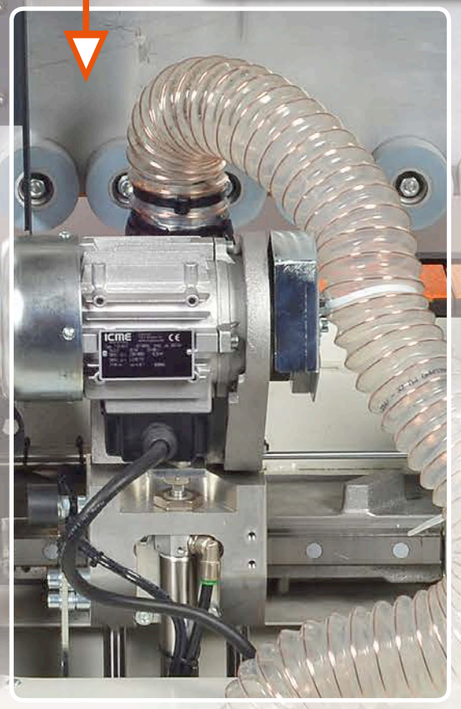
Polishing spray unit (optional)

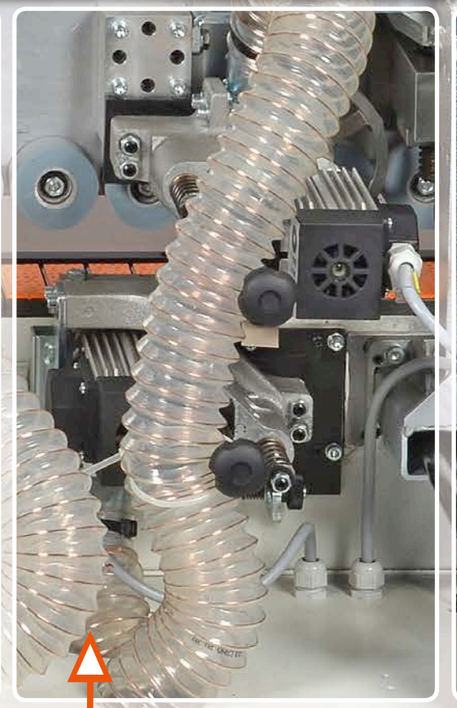
MIRROR FINISHING

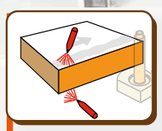
- Spray function controlled by PLC.
- 2 sprayers (lower and upper) and liquid tank.

Two free spaces available, so that machine can be equipped with two of the following finishing optionals:

- **Edge Scraping unit**
- **Edge Glueing unit**
- **Buffing unit**



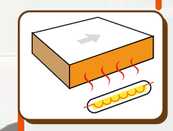




Anti-Adherence spraying unit (optional)

INSTANT PERFECT CLEANING

- Spray function controlled by PLC
- 2 sprayers (lower and upper) and liquid tank



Infrared lamp (optional)

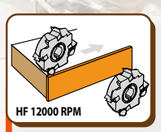
TO GUARANTEE THE BEST GLUEING CONDITIONS

- Creates the best conditions for perfect glueing.
- Heats panels and removes all traces of dampness.

Pneumatic shear, pressure rollers, edge feeding system

DETAILS THAT MAKE THE DIFFERENCE

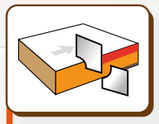
- Edge feeding synchronized with panel being processed
- Oscillatory movement of the cutting shear unit to guarantee perfect glueing
- Quick and precise positioning of the pressure rollers. The system “reads” the edge thickness, making mistakes impossible!



Flush Trimming units

NO ADJUSTMENTS

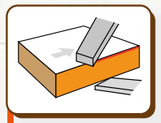
- The system “reads” the edge thickness, making mistakes impossible!
- Rapid changeovers working between radius milling, thin and solid edges.
- 2 HF motors 200 Hz – 12,000 rpm – 0.37 kW



Edge Scraping unit (optional)

PERFECT PLASTIC EDGES EVEN IN BACKLIGHT

- Blowers for detachment and removal of shavings.
- Dust extraction system complete with box to separate and collect edge scraping shavings.



Glue Scraping unit (optional)

REMOVAL OF EXCESS GLUE

- Copier discs with automatic cleaning system.
- Two separate knobs which allow an easy positioning of the tool and a fast exclusion of the unit.

VR End Trim unit with vertical rounding function (Opt)

TWO PROCESSES IN UNIQUE PASSAGE

- Cut and vertically mills of front and rear excess edge of panel when being processed
- 2 processing modes:
  - straight (thin edges and wooden strips)
  - radius (ABS and PVC thick edges)
- Unit managed by the electronic control with the possibility to specifically choose the processing mode for the front and the rear of the panel
- High frequency motor 0,22kW – 12.000 RPM
- Intergrated dust extraction system

Chain panel feeding

FOR INDUSTRIAL QUALITY EDGEBANDING

- Firm grip of panel guaranteed by special non-slip rubber on the pads.
- Linear feeding ensured by double sliding tracks with a special geometric profile accurately machined with precision to a hundredth of a millimetre.
- Long lasting monolithic frame fully processed only in one cycle on a CNC machining centre.

Top pressure bar

EDGE FEEDING RAISING SYSTEM WITH HANDWHEEL AND NUMERICAL INDICATOR

- The presure bar, made from two rows of idle rubber rollers, is adjustable by a handwheel complete with a mechanical numerical indicator. The irreversible mechanism (selflocking) with conical gears, assures a precise and stable positioning.

Internal LED light (opt.)

ALL UNITS UNDER CONTROL

- The internal led lights on the units allows to make adjustments in safety, even with bad outside lighting.

Compositions

- E450

- E450 PM

- E450 PMVR

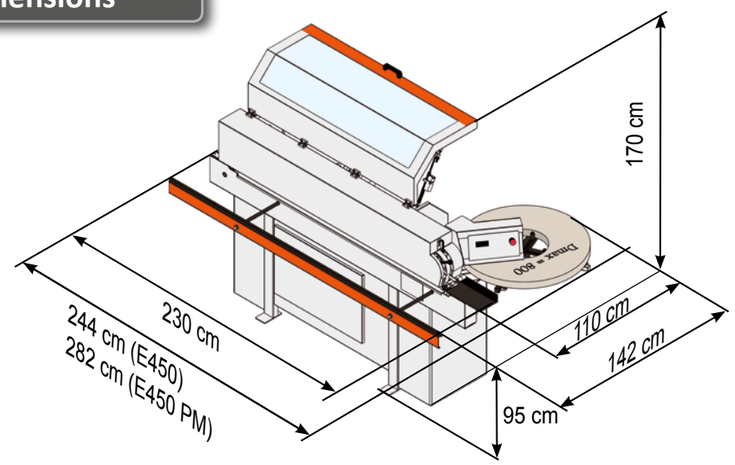
- Options for free spaces

- Options without occupying spaces

Technical features

Min./max. panel height	min 8 - max 45 mm
Min./max. edge thickness	0,4 - 3 mm (coils) / 0,4 – 5 mm (strips)
Minimum panel width	95 mm
Minimum panel length (side being processed)	210 mm
Panel feed speed	7 m/min
Pre-milling motors (each)	200 Hz – 12.000 rpm – 0,75 kW
Glue pot heating element	1490 W – 6 cartridges
End trimming blade rotation speed	9.000 rpm
End trimming motor	50 Hz – 0.18 kW
Flush trimming motors (each)	200 Hz – 12.000 rpm – 0,22 kW
Cutterblocks with combined WIDIA disposable Knives (radius/bevelled)	Ø 75 mm Z4 – hole Ø 16 mm (r=2 - 3 mm)
Total power installed	5 kW approx.
Weight	420 kg approx.

Overall dimensions



We reserve the right to make technical modifications. The machines illustrated may include fittings and accessories not included on standard machine versions.
For photographic purposes, some units are shown without protections. Machines must however always be used with all protections fitted and operative.

Casadei INDUSTRIA

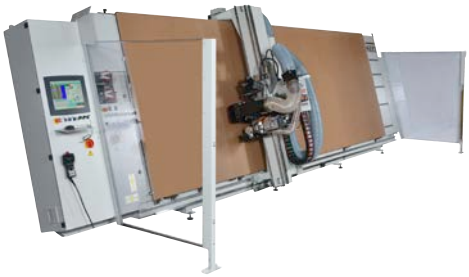
www.casadei-industria.com

TECHNOLOGY FOR

- WOODWORKING (EDGEBANDERS)

TECHNOLOGY FOR ALUMINIUM AND COMPOSITE PANELS:

- BUILDING/ARCHITECTURE
- TRANSPORT INDUSTRY
- VISUAL COMMUNICATION



S.M. Meccanica S.R.L.
Via Guardia di Rocca, 14
47899 Serravalle - Repubblica di San Marino
Tel. +378 0549 960011
sales@smmeccanica.sm

New samec S.r.l.
Via Tane di Baragone, 11
47899 Serravalle - Repubblica di San Marino
Tel. (+378) 0549/900720
sales@newsamec.sm