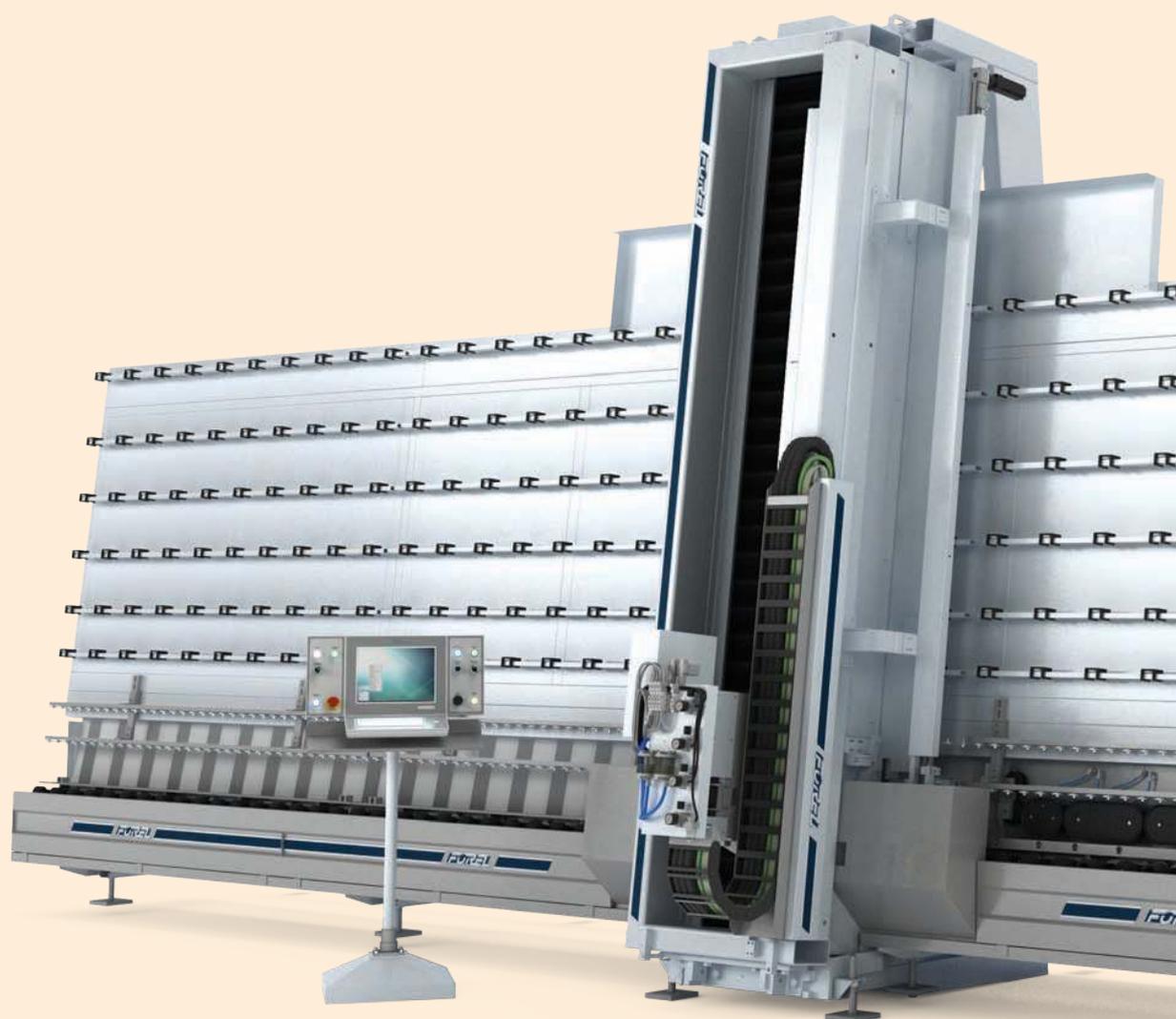


# ART. EM

## AUTOMATIC VERTICAL EDGER

THE EM EDGING MACHINE IS DESIGNED FOR PROCESSING THE EDGES OF FLOAT AND LAMINATED GLASS SHEETS. IT CAN PERFORM EDGE ARRISING, ROUGH EDGE GRINDING AND EDGE POLISHING.

IN ADDITION TO FEATURING SELF-LEARNING FUNCTIONALITY THE MACHINE IS ABLE TO SQUARE THE GLASS TO THE FINAL REQUIRED DIMENSIONS, IT CAN BE THEREFORE BE USED IN DOUBLE GLAZING, TEMPERING AND OR GRINDING LINES.



VERTICAL CUTTING LINE



LAMINATING LINE



EDGE PROCESSING



INSULATING GLASS





The machine is a solid structure featuring Forel's innovative mono-block construction reflecting the philosophy and culture for quality build. This feature guarantees extreme accuracy, performance and capacity especially considering weight per linear metre.

The operating head is equipped with an electric spindle with power of 9.2 kW, rotation speed of 4,500 rpm and a 200 mm diameter grinding wheel ensuring high speed machining and material removal rates.

During machining, the glass is handled by a carriage equipped with suction cups that have a strength capacity of up to 200 kg/m firmly secure the glass in position.

An automated suction cup drying system, along with its precise movement, ensures a perfect adhesion of the suction cups to the glass.

The operating head is equipped with a patented system that permits connection of securing devices close to the area of grinding. This ensures perfect centering with the grinding tool relative to the glass edge and the absence of vibration during machining. The grinding tool and glass are and remain perfectly aligned throughout the process, regardless of the glass length.

The grinder operates in self-learning mode on rectangular glass panes, and on shaped glass it uses an on-board editor or imported CAD files.

The dynamic self-learning system detects the glass profile via a patented feeler that locally checks the position of the glass edge with respect to the tools during machining.

In order to limit tool changes and facilitate machining, the spindle cone allows mounting a "grinding tool set" of up to 80 mm total thickness.

The machine is equipped with a system that monitors consumption, approach and grinding tool speed (pre-setting), and automatically adjusts the latter's peripheral speed.

An automatic redressing system for the polishing wheel is included.

By simply creating the settings in the PLC, different types of machining can be performed in alternating sequences: edge polishing - rough edge grinding - arrossing.

The machine is equipped with a special diagnostic system and a remote connection assistance programme.

The machine includes dedicated software that ensures excellent polishing, even on difficult areas like corners and narrow radii.

Technical information

	EM4520	EM4525	EM5028	EM6032
A	2000	2500	2800	3250
B	640	640	640	640
H	3500	4000	4300	4750
L	10800	10800	10800	11900
L1	4500	4500	5000	6000
P	2300	2300	2300	2300
S	Rp 1" 1/4	Rp 1" 1/4	Rp 1" 1/4	Rp 1" 1/4
W	Rp 1/4" - Ø40 2,5 bar			
water waste	It depends on the finishing level			
A1	Rp 1/2" 7 bar	Rp 1/2" 7 bar	Rp 1/2" 7 bar	Rp 1/2" 7 bar
compressed air	700 NL/min	700 NL/min	700 NL/min	700 NL/min
ethernet	UTP shielded cable category "5/6" RJ-45 connector			
E1	3P+N+E 400/230V Installed: kW 22 -50/60Hz Absorbed maximum: -80%			
thermal switch	63 A	63 A	63 A	63 A

Forel reserves the right to change the data in this general description sheet. The machine shown is a mere guideline, it may include optional accessories and vary according to the maximum work height.

