



EDGE
PROCESSING

ART. EM - VERTICAL EDGING MACHINE



FOREL

Art. EM - EDGING MACHINE

The Art. EM edging machine, one of the most highly appreciated items of the Forel range, is designed for the **edge processing of monolithic and laminated panes**:

- arrossing
- grinding
- polishing

It made its début in 2008 and, given the excellent response of the market, quickly became **one of the flagship products of the Forel range** and is now subject to constant implementations and upgrades.

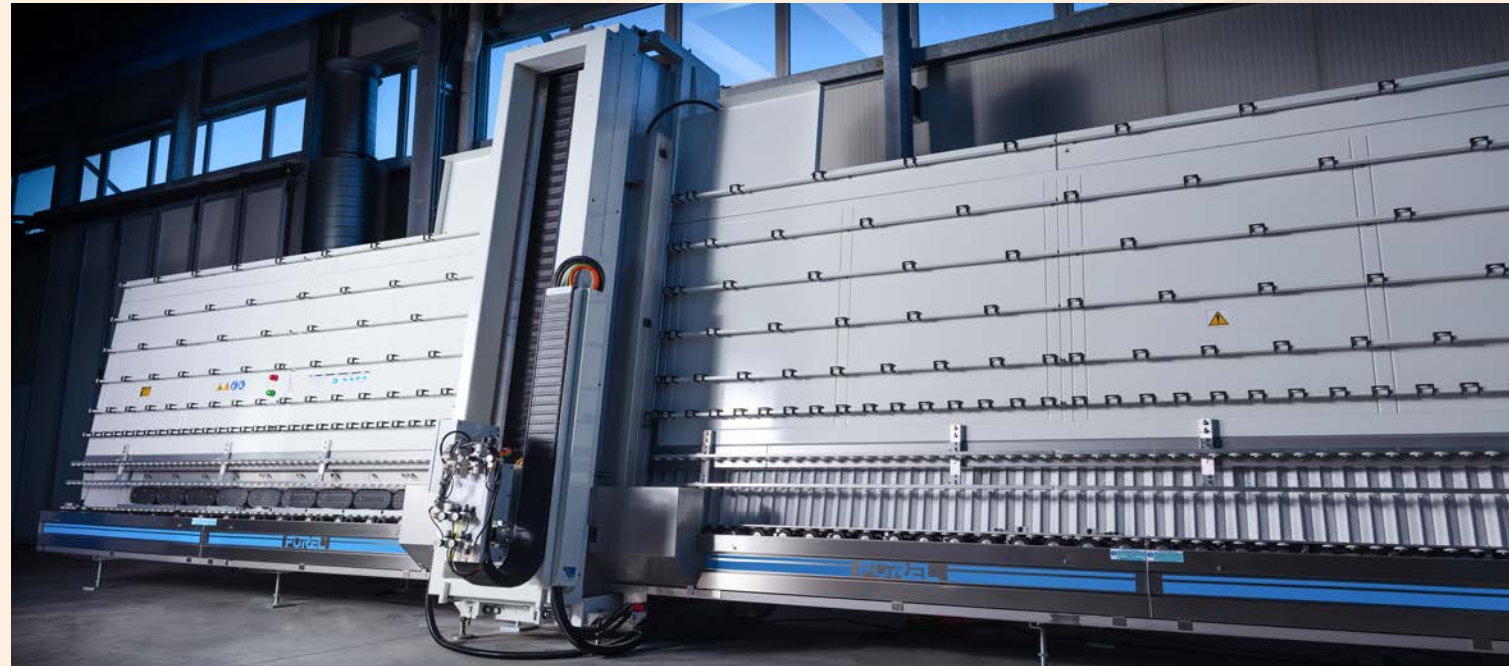
It has two strengths in particular: the use of **diamond grinding wheels** for processing, and **synchronised vertical movement** (the pane moves along the horizontal axis whereas the operating head moves along the vertical one). Two aspects that together produce the best possible edge processing on the glass pane.

The Art. EM edging machine can be used not only in a vertical processing line, but also at the start of an **insulating glass line**, to feed a **tempering furnace**, as part of an integrated **sorting** system, or even as a stand-alone machine.

Thanks to the different technological measures adopted, Art. EM guarantees **total stability** and **high processing speeds** during the various processes.

It can work without problems on low-e glass without damaging the coating, and can also process a wide selection of shaped panes.

The Art. EM edging machine is now one of the most common edge processing solutions in the world, used by glazing factories that deal with both the **residential and the commercial** sectors, but also by the automotive, marine, solar and interiors segments, along with many others.



THE HANDLING OF THE PANE

Stability is the primary requisite for processing the pane correctly: this is why all the solutions of the vertical processing range are particularly attentive to this aspect... starting from the **suction cups**.

On the Art. EM vertical edging machine, the pane of glass is held by a special suction cup carriage that can handle up to **200 kg per linear metre**.

At the end of every work cycle, a **drying** system cleans and dries the suction cup to ensure a perfect hold on the next pane.

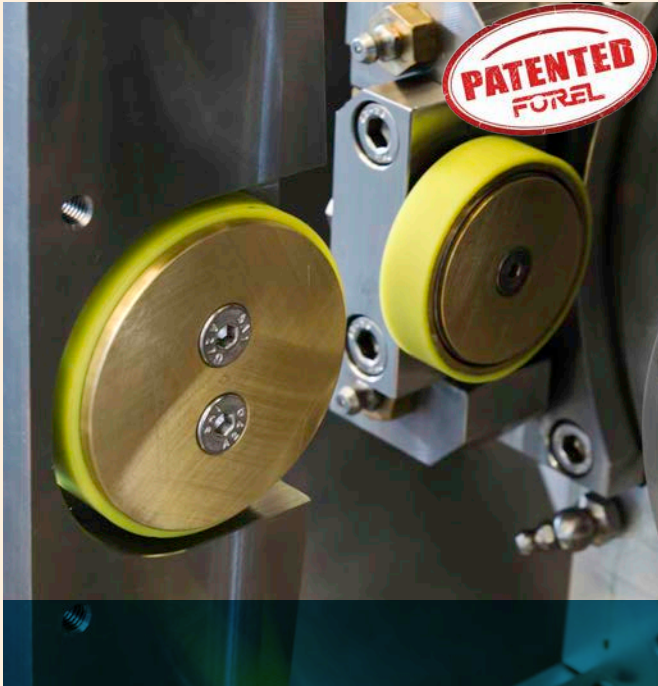


GLASS HOLDING PATENT

The operating head of the Art. EM edging machine is equipped with a **patented system holding the pane in a specific point**.

The device consists of two self-adjusting contrast wheels that rest on the pane and hold it in place. The system guarantees a **perfect hold, centring in relation to the tools, and the absence of vibrations** during processing.

Thanks to this device, Art. EM offers precise processing even when the pane is not perfectly flat.

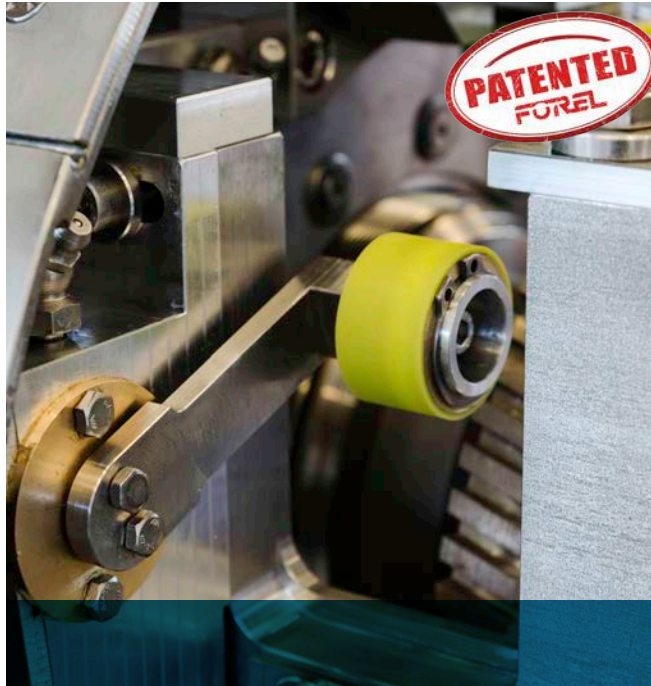


SELF-LEARNING MODE

The edging machine is fitted with a series of sensors on the infeed to measure the height, length and thickness of the pane to be worked. This enables the processing to be carried out in **self-learning** mode, which means it is entirely automatic.

An exclusive **patented feeler** (shown in the photo below) checks the edge of the pane during processing, thereby “guiding” the grinding wheel.

Thanks to these solutions, the **operator's work is limited to loading the pane and unloading the finished product**: the edging machine works completely autonomously.



PRE-SETTING AND DRESSING

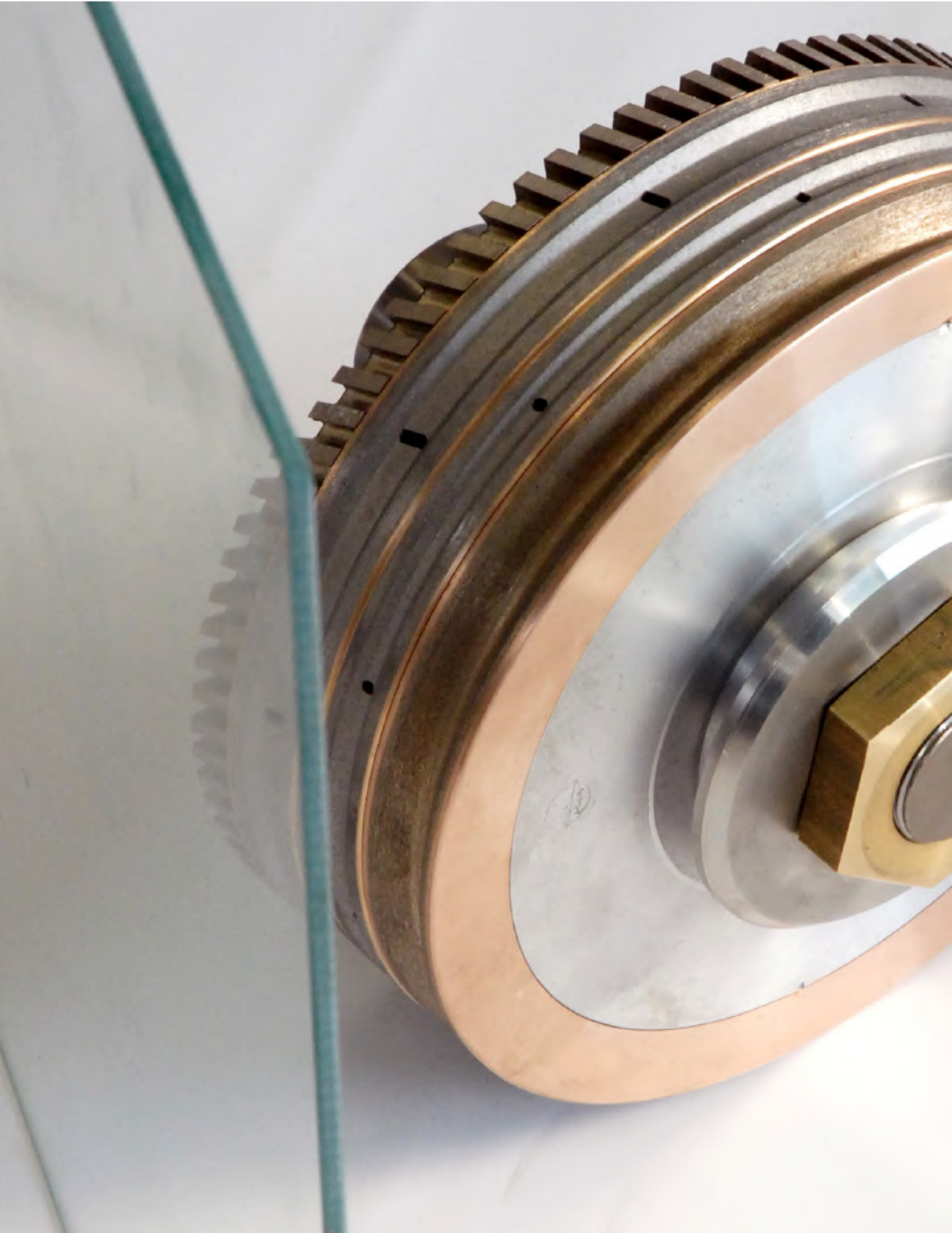
The Art. EM edging machine is designed to manage **large workloads**, guaranteeing **optimum productivity**.

It's therefore crucial to keep the wear on the tool under control, so there's a system that checks tool wear and approach (**pre-setting**): the true diameter of the grinding wheel is regularly measured by a special feeler to guarantee optimum tool-pane contact at all times.

When necessary, a **wheel dressing tool** is used to prevent any risk that its lengthy use may lead to a quality reduction in the finished product.



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Family **EDGE PROCESSING**
Type **VERTICAL EDGING MACHINE**

Technical characteristics

Models	EM04020	EM04525	EM05028	EM06033
Height (mm)	4.000	4.000	4.300	4.800
Length (mm)	10.800	10.800	10.800	11.900
Depth (mm)	2.600	2.600	2.600	2.600
MAX glass length (mm)	4.000	4.500	5.000	6.000
MAX glass height (mm)	2.000	2.500	2.800	3.300
Maximum transportable weight (kg/m)	200	200	200	200

*Forel is constantly working on the development of new solutions.
Some data present in this leaflet may differ from the models available on the market.

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