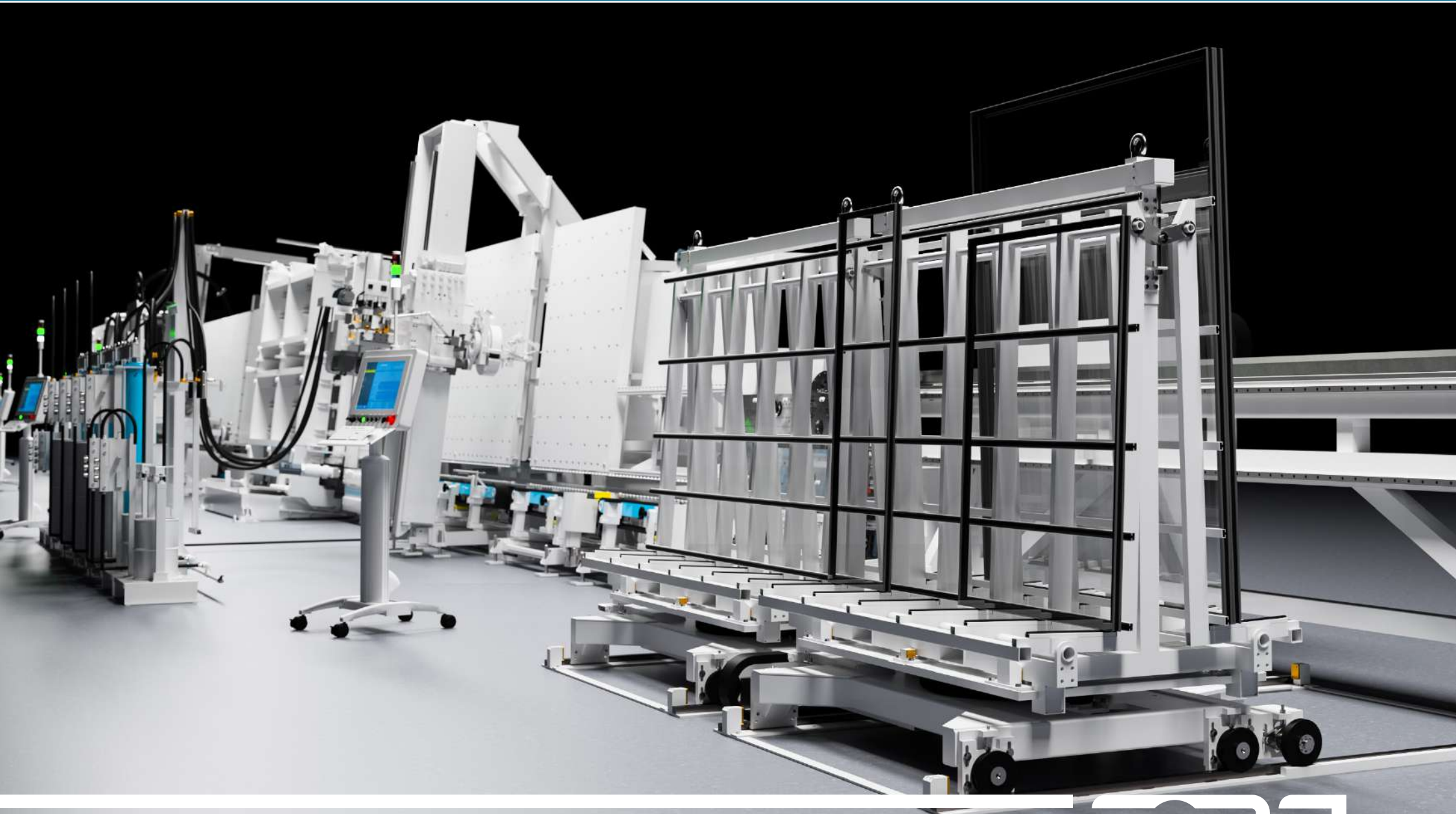




INSULATING GLASS

# ART. GU - AUTOMATIC UNLOADER



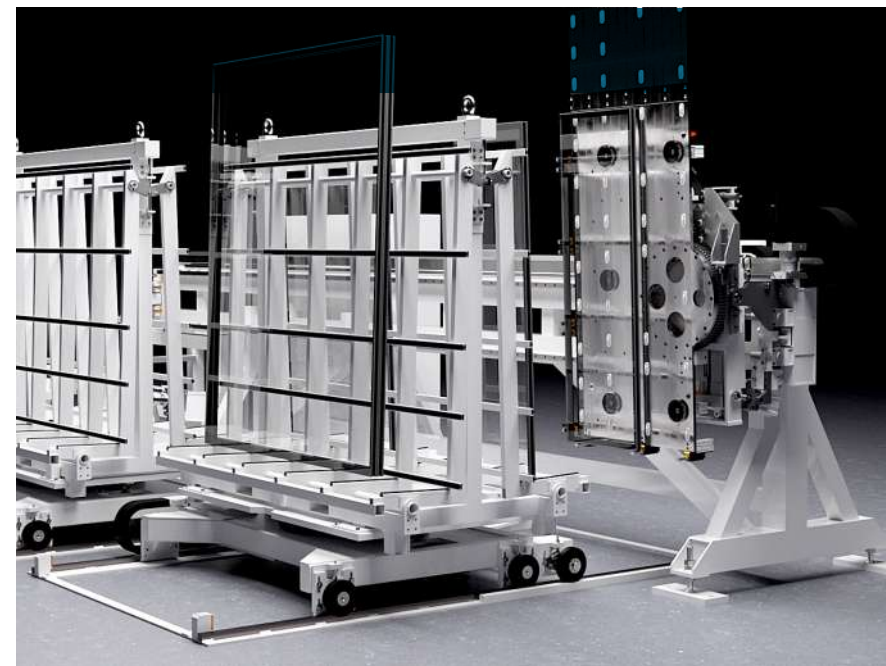
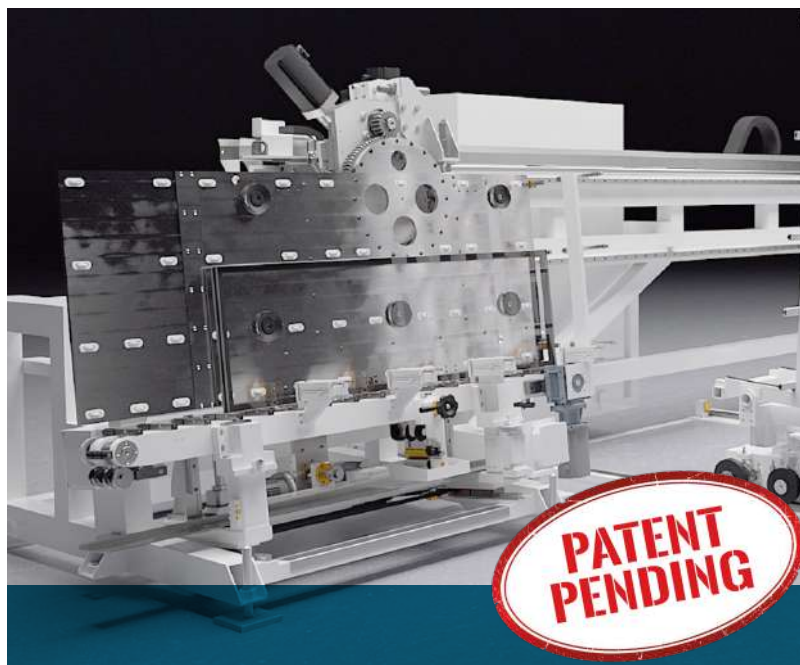
**FOREL**

## ADVANTAGES

The Forel Art. GU automatic unloader is compatible with every type of line used for the production of insulating glass and allows for the units to be unloaded with an original system of racks on rails:

This new solution offers a variety of advantages:

- **increased automation of the process and "smart" unloading;**
- **greater safety**, both for the operators and for the product itself;
- **specific innovations** for managing insulating glass with thermoplastic spacers.



### ART. GU AUTOMATIC INSULATING GLASS UNIT UNLOADER

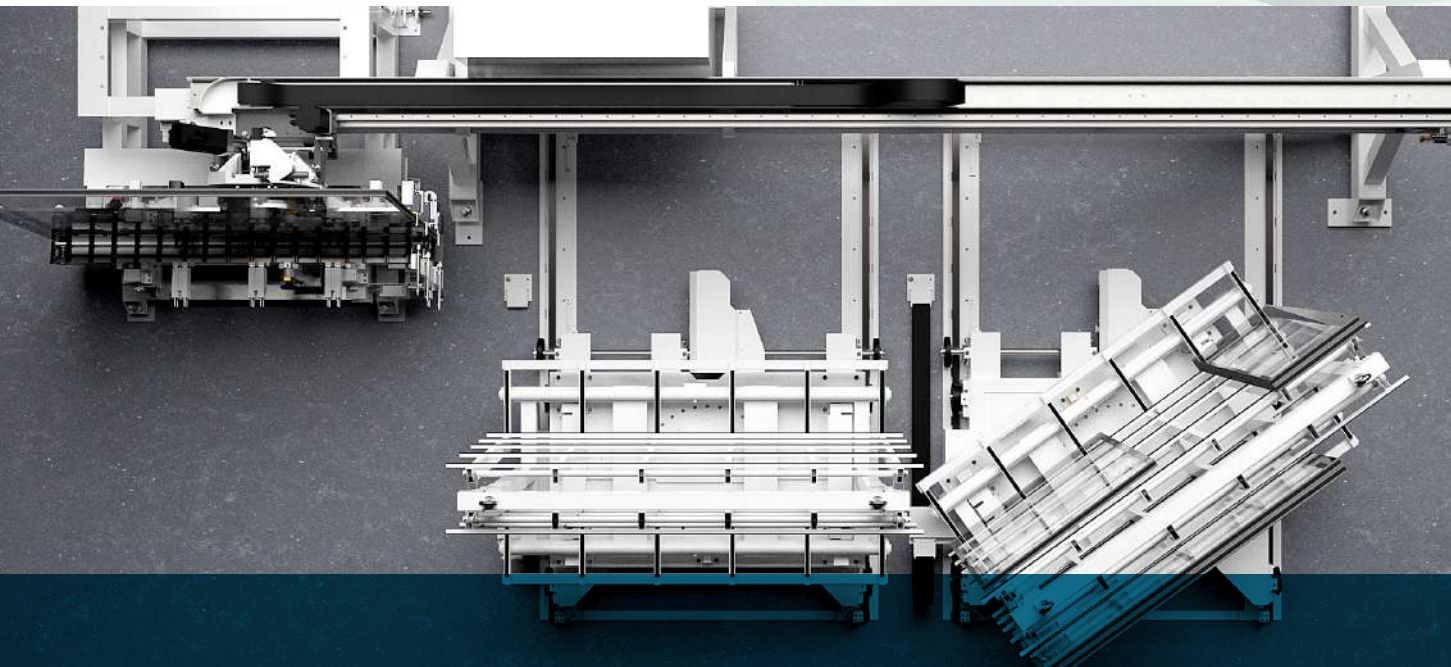
Positioned after the sealing phase, the automatic unloader meets the need for automation, flexibility and safety in glazing factories. It's an invaluable tool for any insulating glass line.

## UNLOADING

When the freshly sealed insulating glass unit reaches the unloading area, a specific handling surface is brought near to the rear face of the glass.

The **handling surface** is equipped with suction cups and a series of mobile supports on the lower side, to provide a firm grip and full support for the unit, including triple glazed ones.

The handling surface then raises the unit and places it on one of the **mobile racks** opposite the unloader (two or three unloading stations). The use of feelers ensures that each unit is placed correctly over the previous unit without the risk of damage, **even when the units are not perfectly flat.**



## THE “SWITCH”

Once one side of the rack is fully loaded, the entire rack rotates on itself so that the unloading can continue on the opposite side (photo on the right).

Once the rack is fully loaded it automatically backs away along the rails: the handling surface continues to unload the subsequent panes on the other rack without slowing down the line.

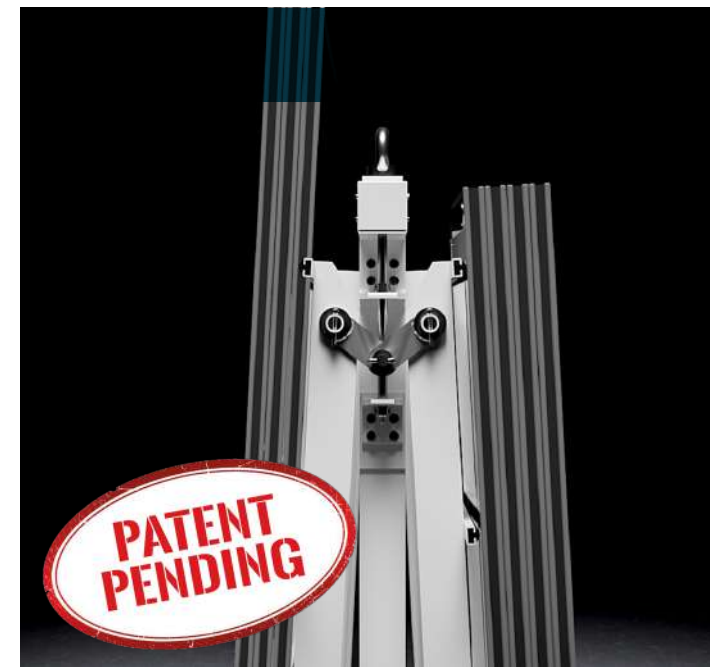
In the meantime, a new rack takes the place of the fully loaded rack to ensure **the continuity of the production and unloading process**. The racks can be transported to the worksite directly, without additional handling of the glass.

## A SMART SYSTEM

The Art. GU automatic unloader, however, doesn't just perform a task: it's **a sophisticated tool for logistics 4.0**.

The machine features **smart** operation. It can evaluate the best unloading strategy on the basis of the work program, distributing units of different formats across different stations, for example.

The unloading process implements **logic and awareness** for the proper handling of the finished product.



## IGU WITH THERMOPLASTIC SPACER

In light of the specific needs of thermoplastic spacer, the racks can be adjusted to **allow for an inclination of as little as 2°**.

Units with a freshly sealed thermoplastic spacer are set up against the rack or on the previous panel with **minimal inclination**: this keeps the overlying units from putting excessive pressure on the underlying units.

Once the **catalytic period for the sealant** has ended, the inclination can be increased to 4°.

# ART. GU - AUTOMATIC UNLOADER



Family "HIGH TECH" INSULATING GLASS  
Type AUTOMATIC INSULATING GLASS UNIT UNLOADER

## Technical characteristics

Model	GU02016HT
Width (mm)	7,365
Height (mm)	2,250
Depth (mm)	4,015
- horizontal unloading	
MAX glass length (mm)	2,000
MAX glass height (mm)	1,600
- vertical unloading	
MAX glass length (mm)	1,300
MAX glass height (mm)	1,600

\*Forel is constantly working to develop new solutions.  
Some data in this leaflet may differ from the models available on the market.

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