



INSULATING GLASS

# ART. TA - THERMOPLASTIC PROFILE APPLICATOR



**FOREL**

## IG LINE WITH THERMOPLASTIC SPACER APPLICATOR

The Forel "High Tech" line for the production of insulating glass units with thermoplastic profile adds a new material type to the choice of materials usable.

The line is available in four formats, with maximum workable dimensions of 4000 x 2000 mm, 4000 x 2500 mm, 5000 x 2800 mm and 6000 x 3300 mm respectively. This line is also capable of producing **stepped and shaped** units.

The most comprehensive configuration of the line includes a **centralised line server**, which shares the work program with all the machines in the line, allowing the machines to automatically implement the necessary operating parameters in accordance with pane size, spacer type, thickness etc.

## PROFILE APPLICATION: PRODUCTIVITY AND SIMPLICITY

The new Art. TA applicator has been developed to position the spacer profile with extreme precision while offering the perfect response to the needs of the industry in terms of: **productivity and ease of use**.

The interface already includes all the most widely **used work programs** and specific options for thermoplastic products: simple, intuitive and user friendly.

In accordance with the production program loaded onto the line server, the applicator **automatically** configures all the working parameters involved and executes the process quickly and reliably. This means that operations such as **changing the thickness of the profile are carried out completely automatically** with no action by the operator.



### ART. TA THERMOPLASTIC PROFILE APPLICATOR

Intended for inclusion in a dedicated insulating glass unit production line, the AT thermoplastic profile applicator has been developed to position the spacer profile with extreme precision. The AT applicator completes the range of solutions dedicated to the production of insulating glass, which represents the core business of Forel.



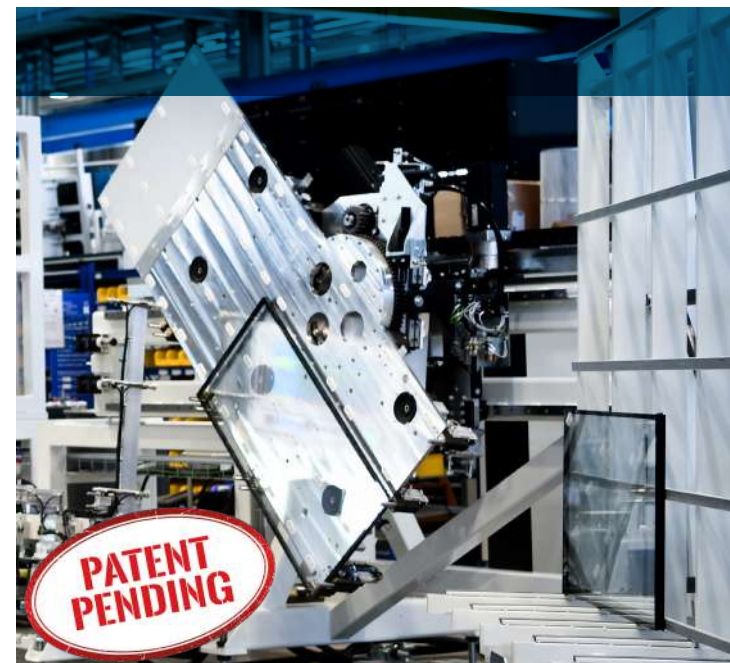


## A SPECIFIC COUPLING PROCESS

Units are pressed and coupled by the **Art. AP "High Tech"** coupling press, the iconic Forel press with gas-filling function.

This solution now features a **dedicated cycle option** developed in consideration of the **specific characteristics of thermoplastic spacer profile**: this special new configuration ensures finished units of impeccable quality, and is particularly useful for the production of **triple-glazed insulating glass units** (photo below).

While the perfect solution for inclusion in a line for the production of units with thermoplastic spacer profile, this is a **triple-purpose** model also capable of processing **units with rigid or flexible spacers** when needed.



## TOTAL CONTROL

Spacer profile is applied by continuously and uniformly extruding the thermoplastic material.

The product is pumped from the drum to the **recirculation units**, consisting of two **storage units** that work in tandem to feed the dosing unit, guaranteeing non-stop extrusion. The benefits of this configuration are particularly clear when the **drum needs replacing**, as it means there is no slowdown in production.

A temperature monitoring system, **with over 40 check-points along the entire length of the conduit**, ensure **uninterrupted product extrusion**.



## AUTOMATIC UNLOADING SYSTEM

The final stage in the process is carried out by the **Art. SR "High Tech" sealing robot**, a product that has already earned widespread acclaim in applications for the production of insulating glass units with rigid or flexible spacer profile.

The process is completed by an **innovative automatic unloading system**, developed in consideration of the specific characteristics the thermoplastic spacer.

This new solution, which automatically deposits finished units onto specific racks, **can also be used to unload insulating glass units assembled with rigid or flexible spacer profile**.

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Family      **INSULATING GLASS**  
Type         **THERMOPLASTIC SPACER APPLICATOR**

## Technical characteristics

Models	TA04020HT	TA04025HT	TA05028HT	TA06033HT
Width (mm)	8.700	8.700	12.150	13.650
Height (mm)	3.939	4.430	4.730	5.230
Depth (mm)	4.810	4.810	4.810	4.810
MAX pane length (mm)	4,000	4,000	5,000	6,000
MAX pane height (mm)	2,000	2,500	2,800	3,300
MAX pane thickness (mm)	25			
MAX spacer thickness (mm)	20			

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