FOREL continues to amaze with its lamination line

As 2022 sees the completion of an ambitious upgrade of its Art. LL lamination line, all kitted out with fresh operating functions for glass coupling and unit heating, FOREL's new version brings significant improvements both in terms of precision and automation - making it among the best-performers on the market today.

Capable of flexible production with its PVB and SentryGlas® interlayer, Forel's latest Art. LL lamination line for producing laminated glass comes as an optimum solution for the processing of different sizes, shapes and types of glass.

LINE DESCRIPTION

Much like the entire Forel range, the Art. LL lamination line follows the company's product philosophy - offering automation, innovation and quality. Whether for rectangular, stepped or shaped units, the line can process multi-layer panels that reach 80 mm in maximum thickness, sizing up further to Jumbo (6.000 mm x 3.300 mm). Not only. The automatic unloader can manage a finished panel weight of up to 1.500 kg.

OPERATIONAL PROCESS

The glass sheet is loaded onto the tilting table, which carries the sheet horizontally. From here, it proceeds to the horizontal washing machine. This solution is equipped with 6 brushes - all 200 mm in diameter. Thanks to a system of self-learning sensors, the washing machine detects size, thickness and the presence of Low-E coating on all incoming glass. Sensors can be installed upon request - also on both the upper and lower sides. The machine automatically adjusts the action of the brushes, avoiding any use of hard bristles on the Low-E coating. The washing machine can be

completed with an anti-static bar to prevent any dust deposits on the outgoing glass.
The glass sheet then proceeds down the line where a system of belts and rollers brings it into proper alignment before positioning it at the centre of the line.
Once aligned and centered, the glass sheet is picked up by a system of suction cups which then transports it to the assembly area where the PVB roll storage is located. The entire process is fully-automated and allows for a perfect positioning of the sheets.

HIGH PRECISION

The Art. LL is equipped with a significant storage capacity that can hold up to 10 PVB rolls, from which the product is automatically unwound onto a special anti-static bar that will prevent any dust particle deposits. PVB positioning over the glass is fully-automatic, taking advantage of the movement of the suction cup upon its return to pick up the second glass. Thanks to the automatic pane centering system, the positioning of the two panes is then optimal.
The lamination oven consists of two zones - namely pre-heating and reheating, which operate with progressive temperatures. The oven can be equipped with a triple heating system that consists of:

- Irradiation with infrared lamps
- A convection system for heated air (optional)
- Heating resistors within the convection system (optional)

Two sets of pressing rollers are in operation, both inside and at the exit of the oven. These are conical-shaped to facilitate air expulsion to the outside.

FOREL SpA

FOREL

Via per Monastier, 4
31056 - Vallio di Roncade
TV - ITALY
Tel.: +39-0422-840507
Fax: +39-0422-840900
E-mail: info@forelspa.com
www.forelspa.com