



Tvitec, one of Europe's leading companies in the flat and curved glass sector, has acquired a new Turomas cutting line for laminated glass. The new equipment has been installed in the recently inaugurated manufacturing line for curved glass in León, Spain.

TVITEC, FROM 2008 TO TODAY

Tvitec (Técnicas de Vidrio Transformado), although founded in 2008, has a long history and experience in the glass sector that has allowed and allows it to offer a comprehensive manufacturing system that includes flat glass and curved glass with the highest level of perfection.

Its processing centres, mainly located in Cubillos del Sil (León), in the north-west of Spain, have more than 200,000 square metres dedicated to the processing of high-performance glass. These glass types are tempered, laminated, curved, screen-printed and double- and triple-glazed with the incorporation of coatings that control the transmission of heat, light and sound, and maximise natural light.

All its facilities are equipped with state-of-the-art technology that provide maximum precision in all automated processes, as well as having all the international quality certifications in the glass sector.

It is, at present, one of the largest processors of high-performance glass in Europe, having been involved in the most renowned international construction projects on all five continents.

Works such as the Karolinska University Hospital (Stockholm – Sweden), the Google Headquarters (Silicon Valley – California), the Lime Street skyscraper

(London – United Kingdom), the new Santander Bank Headquarters (Madrid – Spain) and even the headquarters of the now famous pharmaceutical company Astra Zeneca (Cambridge – United Kingdom) all have the Tvitec seal.

NEW LAMINATED GLASS CUTTING LINE LAM504SXR

With the need to renew the laminated glass cutting line, together with the desire to improve the cutting process, the company from El Bierzo started a process of purchasing equipment that would satisfy two needs: efficiency and cutting quality. It was precisely this, the cutting quality of the Spanish machine manufacturer, that was the differentiating factor that made Tvitec opt for the Tuomas solution: “We need to renew the machinery with the most efficient equipment and Tuomas is at the forefront of this type



Karolinska University Hospital (Stockholm, Sweden)



Astra Zeneca Headquarters (Cambridge, UK)



Banco Santander Headquarters (Madrid, Spain)



Javier Prado, President of Tvitec



CHARACTERISTICS OF THE NEW LAM 504SXR LINE

of tooling that we need. In the cutting of laminated and monolithic glass, Tuomas is a good player, a good bet to have a guarantee of success," Says Javier Prado, President of Tvitec.

Along with the quality of the cut, another of the aspects that favoured the purchase decision was Tvitec's confidence in the Spanish manufacturer. The business relationship between the two companies goes back more than 30 years and has always been nurtured by excellent service.

"Tuomas has been with us as a supplier for 25-30 years, if not more, and has always been there for us," said Javier Prado, President of Tvitec.

The purchase of the new Tuomas laminate line will allow Tvitec to meet and exceed the high quality and productivity demands of its customers – important façade designers, engineering firms, construction companies and architects who design and build unique buildings all over the world.

Throughout its 30-year history, Tuomas has been working at the highest international level, developing and improving its range of laminated glass machinery. This has provided Tuomas with a specific know-how that has enabled the Spanish company to position itself at the forefront of this type of cutting solutions.

In particular, the LAM 500 series is designed for companies that require maximum productivity and automation. It allows fully automatic positioning, rotating, stripping, cutting and separating of glass up to 12+12 mm, even on high-strength butyral glass.

The structural design of the range is assembled as a whole to gain in robustness and avoid stresses that compromise its performance. The surface of the table made of aluminium sheets, ensures the air flow and minimises possible air cushion losses.



The glass is positioned using honeycomb belts with a non-slip texture and a traction system centred on the table structure. Thanks to this system, it is possible to move 12+12 mm glass sheets with a total anti-slip guarantee of and ensuring a perfect positioning with respect to the cutting bridge. In addition, it incorporates an automatic rotation system patented since 2001. This system works by combining the movements of two independent suction cups that manipulate the lower face of the glass on the X and Y axes, offering rotation in safer conditions and avoiding contact at all times with the low emissivity layer of the glass in order to preserve all its qualities.

TUROMAS CUTTING HEAD

The cutting head that integrates the installed

line consists of four tools, two upper and two lower. Each one acts independently and is dimensioned to exert the appropriate pressure for a specific range of glass thicknesses.

The tools are equipped with a height adjustment sensor and are offset from the vertical axis to ensure perfect alignment with the cut. To ensure the best cutting quality, the system actively monitors the pressure exerted by each tool and continuously stabilises and regulates it according to the thickness of the glass and the cutting speed.

The head has a constant lubrication system that favours the movement and penetration of the cutting wheel in the glass to obtain the perfect cut and ensure correct operation over time.

CUTTING AND SEPARATING SYSTEM

The upper cut is carried out by a nylon wheel that descends and moves along the glass to carefully perform the first operation. Next, a ruler parts the glass from the underside; both tools are fitted with sensors to control and ensure the ideal stroke and pressure for each glass thickness.

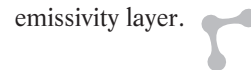
The PVB is heated by a specific infrared lamp and, at the same time, the two sides of the glass are separated by the traction exerted by two sets of independent suction cups at the bottom to allow the entry of a blade that cuts the PVB.

100% COMPATIBILITY WITH LOW-EMISSIVITY GLASS

The entire range of machinery is fully compatible with low-emissivity coated glass,

since devices never come into contact with the part of the glass where the low-emissivity layer is located at any time during cutting.

It incorporates a striping system with a high performance suction system managed by a control device that constantly stabilises and monitors the pressure applied for the perfect removal of the low emissivity layer.



Turomas

TUROMAS
OUR PASSION, YOUR PROGRESS

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