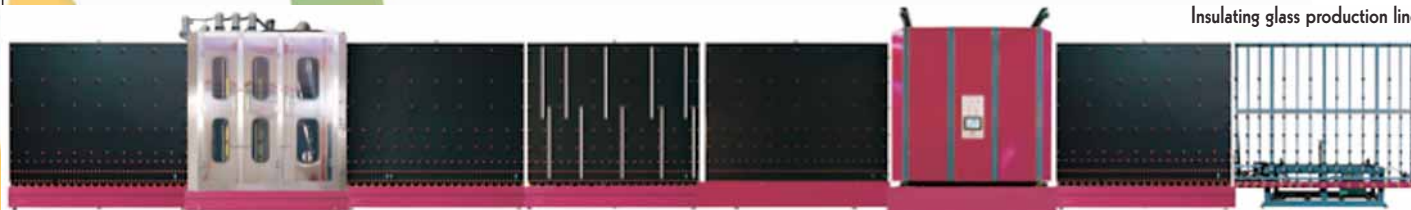


Insulating glass production line



TENON:

# technical flexibility for customized machinery

TENON has been active in the IG glass processing machinery sector for about 26 years. The joint venture company based in Beijing, China, is specialized in machinery, both IG glass and flat glass seaming (arrising) related.

The company's range of products also includes insulating glass production lines and sub items such as automatic sealing robots, auto benders, edge deletion, desiccant fillers, gas filling units (on- and

off-line), and as well as glass seaming (arrising) machine for IG or tempering glass.

## CONTINUOUS GROWTH AND DEVELOPMENT

TENON is continuously growing and developing, thanks to its own in-house software design and creation, responding to the numerous and diverse needs and requests of innovation from its customers and the market.

The strongpoint of TENON machines is their technical flexibility, thanks

With about 26 years of activity and experience in the IG machinery sector, combined with continuous growth and development, TENON machinery has, as its main strongpoint, technical flexibility. This important feature, together with ease of operations, responds to the highly diversified requests coming from insulating glass manufacturers worldwide.

Horizontal seaming machine



to which the company can create customized machinery, as well as ease of operations regarding mechanical aspects and software.

In 2013, the company expanded and doubled its production area, thus guaranteeing convenient delivery and diverse production ranges. TENON also collaborates with other companies that manufacture complementary machines such as automatic cutting lines, automatic loaders, as well as processing and unload machines for finished glass.

### RECENT INSTALLATIONS

TENON recently installed two new IG lines including loader, edge deletion and auto sealing robot in Tianjin China, for maximum glass size of 3,300 x 6,000 millimetres, and 2,800 x 6,000 millimetres, and washing thickness from 3 to 30 millimetres, at one of biggest glass processing companies in China.

This IG line can produced up to 6,000 millimetres in length, and can be created for new glass sizes of up to 3,300 x 10,000 millimetres by combined exceptional structures.

### HGF ARGON AND KRYPTON GAS FILLING EQUIPMENT

TENON has recently launched an optimized automatic after-pressing gas filling equipment with the collaboration of Germany-based Helantec. The collaboration with Helantec will support the business idea and credibility of gas volume as both companies aim to provide the perfect IG glass techno-



Gas filling equipment

Gas detector



logy tools and solutions helping royal customers to produce energy efficient top-level IG units.

Our relationship with Helantec is an exciting endeavour for TENON IG products line up that brings this cutting-edge product to the global mar-

ketplace. Gas filling and gas measurement technology is the first non-invasive way of measuring the argon and krypton fill level of insulating glass units.

HGF enables to obtain more accurate measurement at lower filling levels ranging from 50 to 100 per cent argon filling with high precision. It has an



Jumbo IG Line 3300 x 6000 - 10000

approximate fill rate of less than 18 seconds per square metre at 90 per cent, and statistics showing gas volume and fill time are also recorded.

And, thanks to our collaboration, and the Helantec L900, the highest capacity gas filling system on the market, the device can measure with greater accuracy and user friendly design, while the gas detector will help prevent error and ensure improved quality and in the manufacture of gas filling IG units.



DGU line with optimized gas filling press

**Features**

- Unique gas filling rate with minimal gas loss
- Turbulent-free gas filling
- Perfect gas filling rate by Helantec L900
- Precise scanning of gas hole
- Automatic checking of gas volume and time
- Automatic sealing of gas fill hole upon completion

**TE-4P-2500G OPTIMIZED IG LINE**

The TE-4P-2500G optimized IG line is specifically made for assembling and plate press insulating glass section, and gas filling section will be offers the ultimate solution in assembling, pressing, stepping and gas filling. It is ideal for manufacturing rectangular and all kind of shaped for-

mats. It offers a consistent extensive gas filling volume and minimal gas losses.

The gas is filled from the bottom with an adjustable gas flow rate as per glass panel dimensions; there are also two vertical stoppers expanded by glass panel length, one is on the rear press and the other is on the front panel (moveable).

**Features**

- Slip free plate transport via belt conveyor
- Gas filling times independent of the length of the IG units
- Two-step pressing of Jumbo sized IG units
- Adjustable, and precise press plate guiding
- Automatic assembling and pressing of IG units with optimized gas filling

- More than 90 per cent gas volume with low waste levels

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