

Revolutionary. Also our technologies.

Product overview



Future-oriented. Our system solutions for glass processing.

New ideas are born by questioning proven ways and searching for unconventional solutions. **Bystronic glass** represents future-oriented machines, units, systems and services in the field of architectural and automotive glass processing.

From basic components through to automated, customer-specific overall units for glass processing, we offer innovative solutions – naturally all to the highest quality.

As a global complete supplier for glass processing, **Bystronic glass** is always further developing the existing solutions and optimising them with more streamlined production processes and new technologies.

Since 1994 **Bystronic glass** has been part of Conzzeta AG, a famous Swiss industrial holding company with over 100 years of tradition. At the same time, it represents innovation, reliability and a long-term perspective.

ARCHITECTURAL GLASS



AUTOMOTIVE GLASS

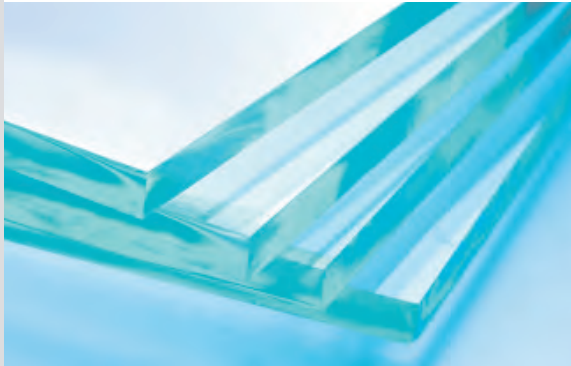


Versatile. Our product range for you.

GLASS CUTTING

(in cooperation with HEGLA)

Page 4



LAMINATED GLASS MANUFACTURING

Page 5



INSULATING GLASS MANUFACTURING

Page 6



AUTOMOTIVE GLASS PRE-PROCESSING

Page 12



HANDLING EQUIPMENT

Page 13



SERVICE & SUPPORT

Page 15



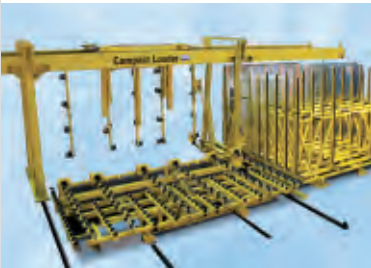
Fitting. Cutting solutions for every requirement.

A comprehensive product range of efficient cutting systems

Our **Bystronic glass** lines for insulating glass production and our plants for the production of laminated glass work together perfectly with the solutions for flat glass cutting from our cooperation partner, **HEGLA**.

The advantage to you: You have one single contact partner and receive everything from one source.

LOADING SYSTEMS



CUTTING SYSTEMS

for float glass



CUTTING SYSTEMS

for laminated glass



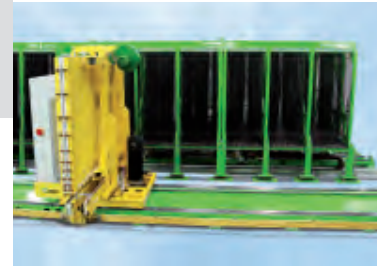
BREAKOUT SYSTEMS



STORAGE SYSTEMS



SORTING SYSTEMS

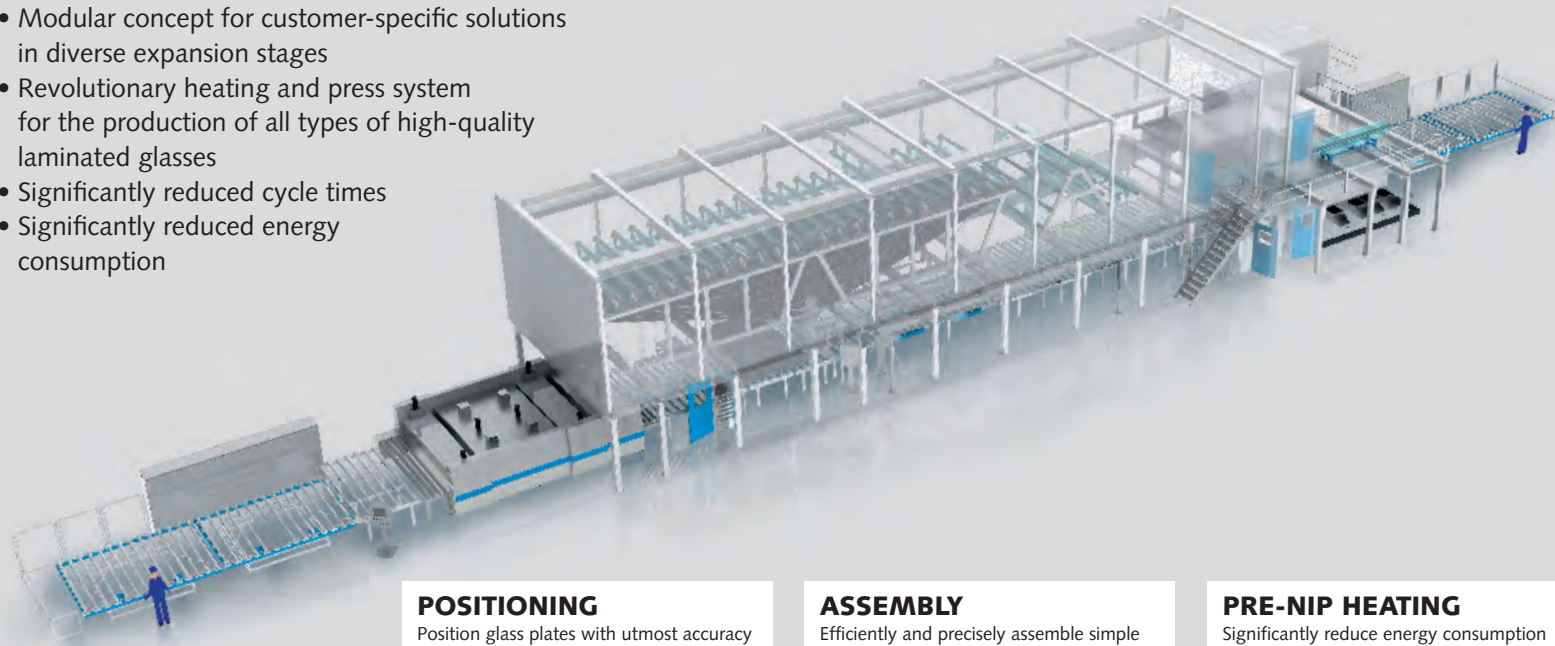


Revolutionary. Top-quality laminated glass manufacturing.

The laminated glass system solution for all requirements

You can produce all types of laminated glass inexpensively with the **eco'lamiline** – from simple constructions through to complex shaped formats with special films – all on one single system.

- Modular concept for customer-specific solutions in diverse expansion stages
- Revolutionary heating and press system for the production of all types of high-quality laminated glasses
- Significantly reduced cycle times
- Significantly reduced energy consumption



POSITIONING

Position glass plates with utmost accuracy



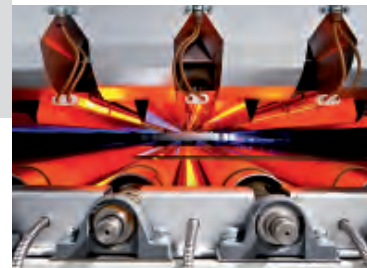
ASSEMBLY

Efficiently and precisely assemble simple and complex glass constructions



PRE-NIP HEATING

Significantly reduce energy consumption with the new radiant heater technology

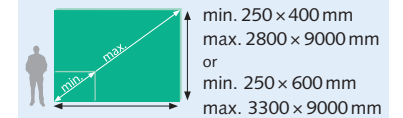


PRE-NIP PRESSING

Flawlessly ventilate the glass constructions via the creation of high and equal pressure



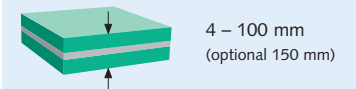
Glass size



Glass thickness



Sandwich thickness

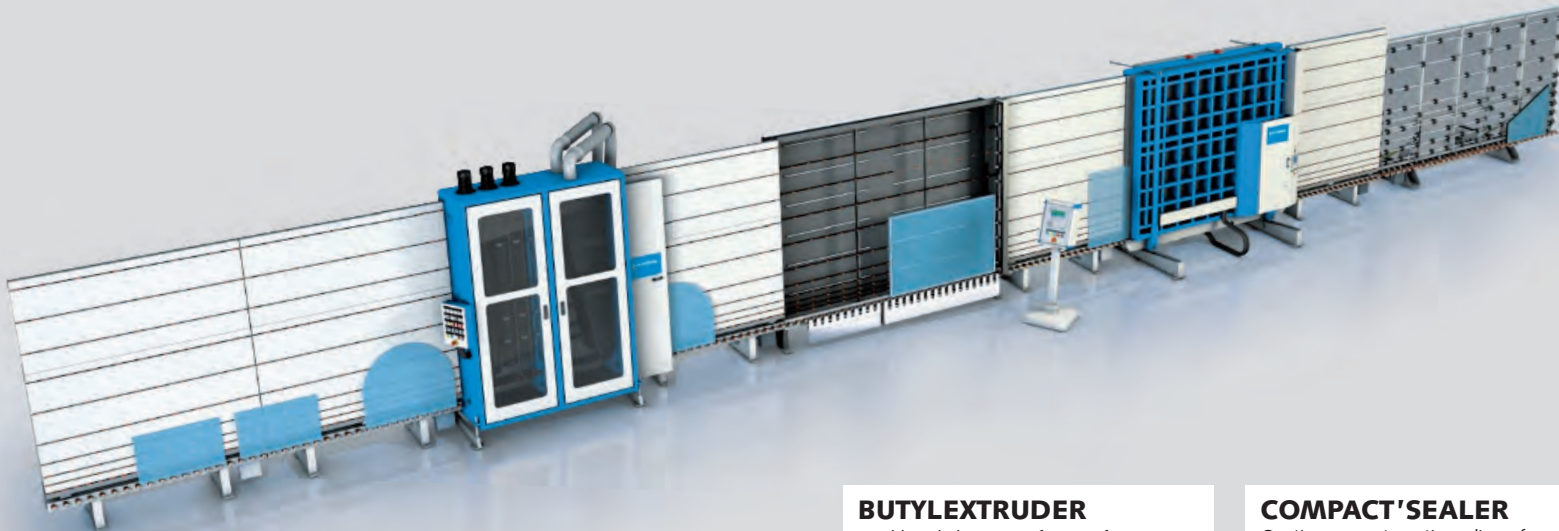


Efficient. Your entry into the world of insulating glass manufacturing.

The start-up solutions in the world of automated insulating glass production

The **compact'line** and **comfort'line** insulating glass lines each consist of a glass plate washing machine, a station for the visual inspection and manual positioning of the spacer frames as well as an assembly press. In addition to the proven **Bystronic glass** quality and reliability, these machines offer real added value.

- High productivity with up to 800 gas-filled insulating glass units per shift (**comfort'line**)
- Low investment costs
- A compact line layout
- Individual expansion stages



BUTYLEXTRUDER

Double-sided coating of spacer frames with thermoplastic sealants

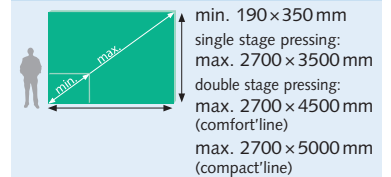


COMPACT'SEALER

Continuous, automatic sealing of insulating glass units



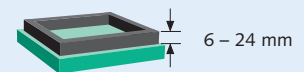
Glass size



Glass thickness



Spacer width



I.G. thickness



Precise. Insulating glass manufacturing for the toughest demands.

The system solution for insulating glass with aluminium, stainless steel or plastic spacers

The **first'line** is an individually configurable production line for the manufacturing of insulating glass with conventional warm edge spacers.

- High flexibility and excellent productivity
- Premium component quality
- Long service life
- Line can be expanded with a multitude of options



DESICCANTFILLER

Top-quality, fully-automatic desiccant filling



BUTYLER

Precise coating of spacer frames with butyl



FRAMEPOSITIONER

Automatic, exact positioning of rectangular spacer frames



SPACERBENDER

The frame bending robot especially for conventional warm edge spacers



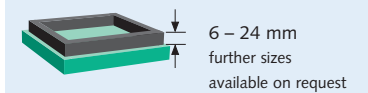
Working heights



Glass thickness



Spacer width



I.G. thickness



Flexible. Automated warm edge insulating glass manufacturing.

The system solution for insulating glass with flexible spacers from the reel

The **flexspacer'line** offers a solution for the automatic production of gas-filled and sealed insulating glass units with flexible warm edge spacers.

- Synchronisation of the frame production with the insulating glass manufacturing process
- Production sequence of rectangular or shaped formats as desired
- Direct application of the flexible spacer on to the vertically positioned glass plate



TWINAPPLICATOR

Twin applicator for the interruption-free production of insulating glass units with different spacer widths



T-SPACER

Processing of flexible spacers with the application of polyisobutylenes on the edge of the spacer on both sides



CORNERSEALER

Secure sealing of corners via fixing with tape strips and additional butyl sealing

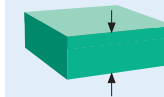


Working heights



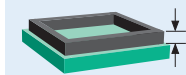
- 1,60 m
- 2,70 m
- 3,20 m

Glass thickness



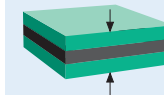
2 – 15 mm
further sizes
available on request

Spacer width



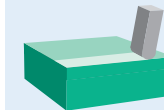
8,0 - 20,6 mm
further sizes
available on request

I.G. thickness



up to 60 mm
further sizes
available on request

Adjustable spacer setback



3 – 20 mm
(for cornersealer)

Versatile. Insulating glass manufacturing with integrated frame production.

The system solution for insulating glass with a thermoplastic spacer TPS®

The **tps'line** offers an individual production solution with unique versatility for all types of orders.

- Storage of different spacer profiles and connectors are eliminated
- Suitable spacer is always available, no offcut
- Flexible manufacture of the production mix on a single line
- Splitting orders into standards and specials is no longer necessary



DIRECT APPLICATION

Direct application of the thermoplastic spacer onto the glass plate, the width of the spacer can be changed during operation without any loss of time



PERMANENT OPERATION

Dual-drum pump system enables a completely interruption-free operation as the material drum change takes place during production

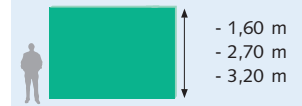


EXACT PRODUCTION

Automatic equalisation of the glass tolerances for production of the TPS® insulating glass units in exactly the required batch strength



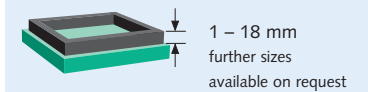
Working heights



Glass thickness



Spacer width



I.G. thickness



Quick. Insulating glass manufacturing with the fastest cycle time.

The new benchmark in the field of triple insulating glass manufacturing

The **speed'line** is a quick line for the manufacturing of insulating glass that produces triple units in the fastest possible cycle times. It consists of two **tps'applicator** components arranged one after the other, the **speed'assembler** insulating glass press as well as the quick **speed'sealer** sealing robot.



TPS'APPLICATOR

Two components arranged one after the other for the quick application of the thermoplastic spacers TPS®



SPEED'ASSEMBLER

Quick, synchronised gas-filling of both spaces between the lites of triple insulating glass units



SPEED'SEALER

Dynamic quality sealing at the maximum flow rate and highest application speed



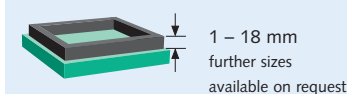
Working heights



Glass thickness



Spacer width



I.G. thickness



Individual. Components for insulating glass manufacturing.

Production additions in accordance with your requirements

Our **Bystronic glass** components are the ideal additions to optimise your insulating glass production. Working together with you, we assemble the machines in accordance with your individual requirements.

FRAME PRODUCTION

Bending, filling, coating and positioning of the spacers



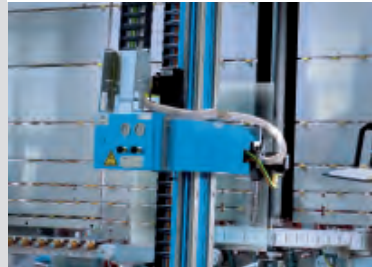
EDGE PROCESSING

Top-quality economic glass arissing



EDGE DELETION

Edge deletion of rectangular and shaped formats



INSPECTION

Automatic, visual in-line inspection of glass plates



TURNING STATION

Automatic turning of coated glass plates within an insulating glass line



GLASS PLATE WASHING MACHINE

Continuous washing and drying of diverse glass plates



ASSEMBLY ROBOT

Automatic assembly and pressing of insulating glass units, with optional gas-filling



SPACER PAD APPLICATOR

Application of pre-punched spacer pads on insulating glass units



SEALING ROBOT

Continuous sealing of insulating glass units of different rectangular formats and dimensions

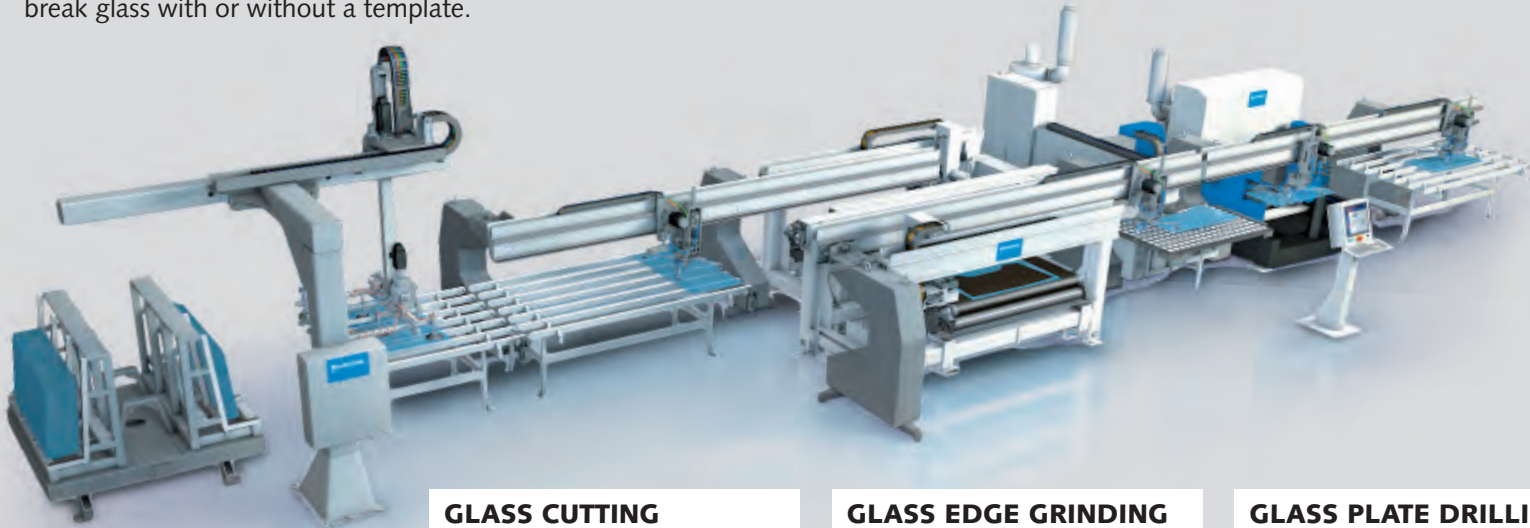


Unique. Automotive glass pre-processing with and without a template.

Individually-developed turnkey system solutions for the efficient pre-processing of automotive glass

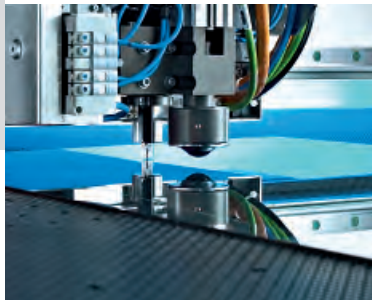
The **champ'speed** enables the quick and precise cutting, breaking, grinding and drilling of automotive glass. The special feature of the **champ'speed 2in1** version is its outstanding flexibility in respect of premium edge break: It is the first machine in the world that can break glass with or without a template.

- A modular design integrates the cutting, breaking, grinding and drilling of automotive glass with the utmost precision
- High degree of automation and short changeover times
- Also suitable for solar glasses and glass for household appliances



GLASS CUTTING AND BREAKING

Precise cutting and material-saving breaking with and without a template



GLASS EDGE GRINDING

Quick and premium grinding of edges



GLASS PLATE DRILLING

Versatile drilling process for multiple drill holes with slanted edges

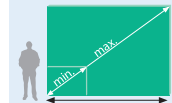


Grinding diameter



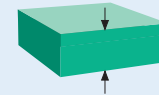
Minimum: 100 mm
Maximum: 3400 mm

Maximum glass size



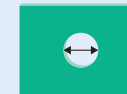
2200 × 2800 mm

Glass thickness



1,4 – 8,0 mm

Drilling diameter



4 – 40 mm

Simple. Protective transport of flat glass and plates.

Take It Easy – Glass handling with the minimum of physical effort for the operator

Handling systems from **Bystronic glass** allow a flexible utilisation in all areas of flat glass and plate processing. The fully-developed innovative technology is characterised by high quality and reliability.

ONE-COLUMN LIFTS

The Easy-Lift simplifies glass handling thanks to its low dead weight and a rigid load guidance – available in many versions.



TWO-COLUMN LIFTS

The Iso-Lift lifts, tilts, inclines and turns glass plates weighing up to 1000 kilograms.



MANIPULATORS

Vacuum hoists that can be used flexibly are particularly suitable for use in chain hoists, cable hoists or hall cranes.



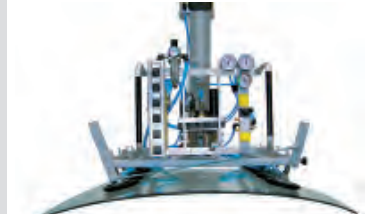
(BATTERY-POWERED) SUCTION FRAMES

The glass suction devices are ideal for the vertical handling of glass and are also available in a battery-powered version for mobile use.



SPECIAL APPLICATIONS

The integration of special glass handling into the daily routine is child's play with our handling equipment for special applications.



CRANEWAYS / SLEWING CRANES

We construct our X-Y lightweight crane ways according to your production needs – with or without slewing crane and Easy-Lift.



Visionary. Our machines for solar modules and windows.

Transfer of proven technologies from the field of insulating glass manufacturing

SOLAR TECHNOLOGY

A large part of photovoltaic module manufacture involves the handling and processing of glass. With its extensive experience in the glass sector, **Bystronic glass** is also the right contact partner for the solar industry.

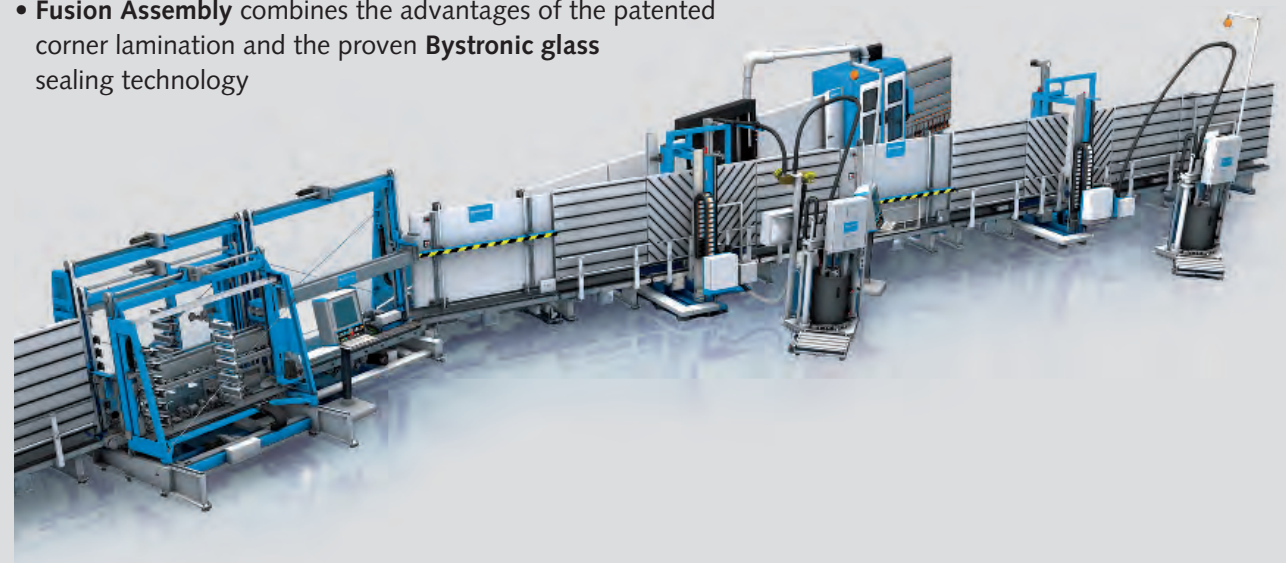


- Technology for a film-free, wafer-based **TPedge** module
- Encapsulation of thin-film modules (see photo)
- Multilayer encapsulation of solar modules
- Washing and drying of glass

WINDOW PRODUCTION

Latest technologies and low-cost solutions for the efficient production of plastic windows:

- **sash'line** integrates the manufacture of insulating glass units into the production process of window sashes (see photo)
- **Friction Corner Welding** “welds” the corners of the plastic window frames with the help of frictional heat
- **Fusion Assembly** combines the advantages of the patented corner lamination and the proven **Bystronic glass** sealing technology



Personal. On-site service and support.

Wherever you need us, we are there

Right from the very first minute, we support you during the planning of your plant. Our customer service is then on-hand all over the world for the delivery of spare parts and other support services. Individual training sessions and plenty of information in PDF format round off the range of services on offer.

PLANNING & CONSULTANCY

Comprehensive, personal consultancy and customer assistance



TRAINING

Tailor-made programmes for the best success possible in training



MAINTENANCE CONTRACTS

Preventative service for a long service life of your machines



HOTLINE

Support in the event of technical queries, spare part orders and more



MANUALS

Download of manuals for your machines complete with information and assistance in many languages



SPARE PART CATALOGUE

Order spare parts quickly and easily via the online catalogue



www.bystronic-glass.com
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