

Because we care

ARCHITECTURAL GLASS
REVOLUTIONARY. ALSO OUR TECHNOLOGIES.



TRUSTWORTHY. OUR SYSTEM SOLUTIONS FOR GLASS PROCESSING.

Bystronic glass symbolises innovation with machinery, systems and services for the processing of architectural and automotive glass focussed on tomorrow's market – from basic requirements through to entire, customised installations.

With our products and services we continually improve and ensure productivity in glass processing sustainability, therefore giving our customers a competitive advantage. Knowledge, experience and employees, who are proud of their machines, make all this achievable.

New ideas are born by questioning proven ways and searching for unconventional solutions. As a globally acting, complete supplier for glass processing **Bystronic glass** is always further developing the existing solutions and optimising those with more streamlined production processes and new technologies. We support our customers on-site through our own worldwide sales and service companies.

Since 1994 **Bystronic glass** has been part of Conzzeta AG, a 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.

INSULATING GLASS MANUFACTURING

Page 4



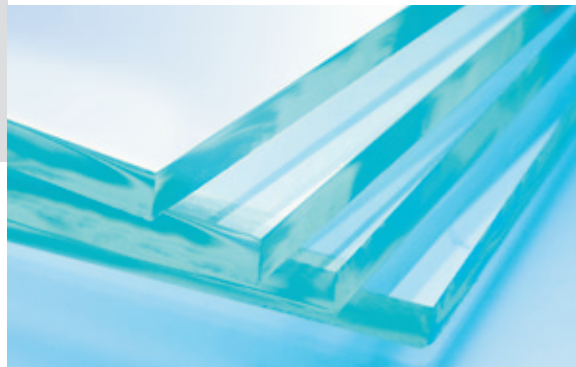
HANDLING EQUIPMENT

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GLASS CUTTING (in cooperation with HEGLA)

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SERVICE & SUPPORT

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COMPLETE. ALL THAT IS NEEDED FOR INSULATING GLASS MANUFACTURING.

The whole world of insulating glass manufacturing at a glance.

Very easily, you will find the right solution for your tasks. You just need to find the most suitable insulating glass line in the overview below according to the key data for your production. Furthermore, if you don't find it there then we will endeavour to tailor it to make

it more suitable for you. In this case it is best to get in touch with us and we will show you how we will put your individual solution into practice.

	SPACER SYSTEM			WORKING HEIGHT			
	CONVENTIONAL	FLEX	TPS	160	230	270	330
B'COMFORT Standard solutions	✓				✓	✓	
B'VARIO Individual customer solutions	✓	✓	✓	✓	✓	✓	
B'JUMBO Large-dimensioned lines	✓	✓	✓			✓	✓
B'SPEED High-speed lines	✓	✓	✓	✓	✓		

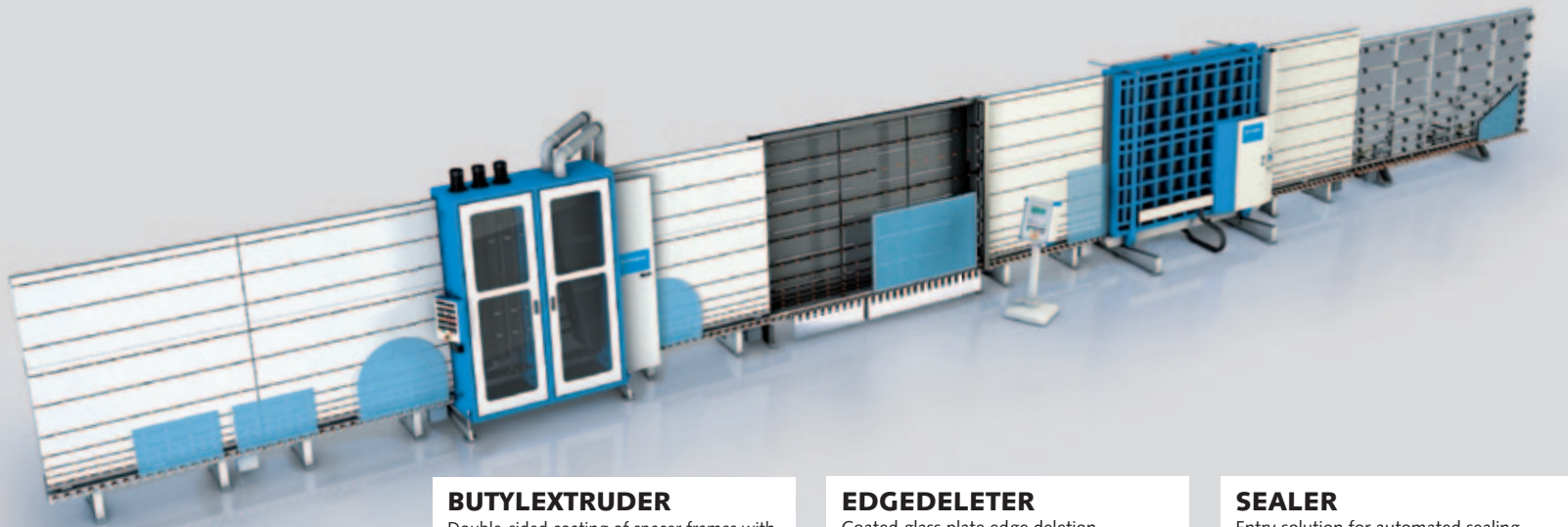
FLEX: Flexible Spacer
 TPS: Thermo Plastic Spacer TPS®

EFFICIENT. YOUR ENTRY INTO THE WORLD OF I.G. MANUFACTURING.

The start-up solution in automated insulating glass production

The insulating glass line **B'COMFORT** consists of a glass plate washing machine, a station for visual inspection and manual positioning of the spacer frames as well as an assembly press, with optional gas filling. 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
- Low investment costs
- A compact line layout
- Individual expansion stages



BUTYLEXTRUDER
Double-sided coating of spacer frames with thermoplastic sealants



EDGEDELETER
Coated glass plate edge deletion



SEALER
Entry solution for automated sealing of insulating glass units



Glass size

min. max.
min. max.

min. 190 × 350 mm
single stage pressing:
max. 2700 × 3500 mm
double stage pressing:
max. 2700 × 5000 mm

Glass thickness

3 – 15 mm

Spacer width

6 – 24 mm

I.G. thickness

12 – 60 mm

PRECISE. INSULATING GLASS MANUFACTURING FOR THE TOUGHEST DEMANDS.

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

The insulating glass line **B'VARIO** is an individually configurable production line for insulating glass unit manufacturing using conventional spacers.

- High flexibility and excellent productivity
- Premium component quality
- Long service life
- Multiple line expansion options



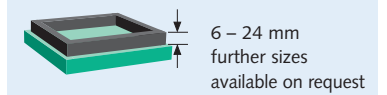
Working heights



Glass thickness



Spacer width



I.G. thickness



SPACERBENDER

Frame bending robot for aluminium and conventional warm edge spacers



DESICCANTFILLER

Top-quality, fully-automatic desiccant filling



BUTYLER

Precise spacer frames butyl coating



FRAMEPOSITIONER

Automatic, precise rectangular spacer frame positioning



FLEXIBLE. AUTOMATED WARM EDGE INSULATING GLASS MANUFACTURING.

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

The insulating glass line **B'VARIO FLEX** offers a solution for the automatic production of gas-filled and sealed insulating glass units incorporating 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 onto the vertically positioned glass plate



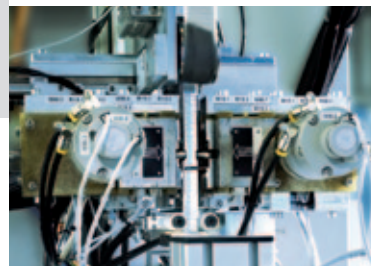
TWINAPPLICATOR

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



T-SPACER BUTYLER

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



CORNERSEALER

Secure corner sealing by fixing with tape strips and additional butyl sealant



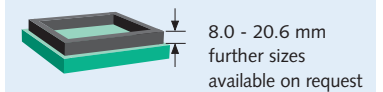
Working heights



Glass thickness



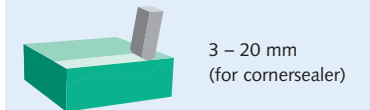
Spacer width



I.G. thickness



Adjustable spacer setback



VERSATILE. I.G. MANUFACTURING WITH INTEGRATED FRAME PRODUCTION.

The system solution for insulating glass with Thermo Plastic Spacer TPS®

The insulating glass line **B'VARIO TPS** offers a uniquely versatile and individual production solution for all types of orders.

- Storage of different spacer profiles and connectors is eliminated
- Suitable spacer is always available, no offcut
- Flexible manufacturing of the production mix on a single line
- Elimination of splitting orders into standards and specials



DIRECT APPLICATION

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



PERMANENT OPERATION

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



OFFLOADING

Comprehensive individual solutions for automated offloading of TPS® insulating glass units

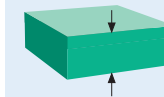


Working heights



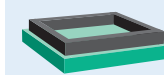
- 1.60 m
- 2.30 m
- 2.70 m

Glass thickness



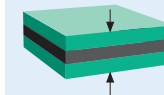
- 2 – 15 mm
- further sizes available on request

Spacer width



- 1 – 20 mm
- further sizes available on request

I.G. thickness



- up to 60 mm
- further sizes available on request

QUICK. INSULATING GLASS MANUFACTURING WITH THE FASTEST CYCLE TIME.

The new benchmark in the field of triple and quadruple insulating glass manufacturing

The insulating glass line **B'SPEED** is a quick line for insulating glass manufacturing that produces triple and quadruple units in the fastest possible cycle times. It is available in the following variants:

- **B'SPEED** for conventional spacers
- **B'SPEED FLEX** for flexible spacers
- **B'SPEED TPS** for thermoplastic spacer TPS®

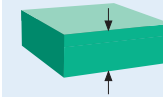


Working heights



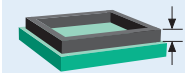
- 1.60 m
- 2.30 m

Glass thickness



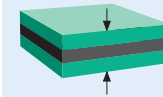
2 – 15 mm
further sizes
available on request

Spacer width



6 – 24 mm
further sizes
available on request

I.G. thickness



up to 60 mm
further sizes
available on request

SPEED'ASSEMBLER

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



SPEED'SEALER

Dynamic quality sealing at maximum flow rate and highest application speed

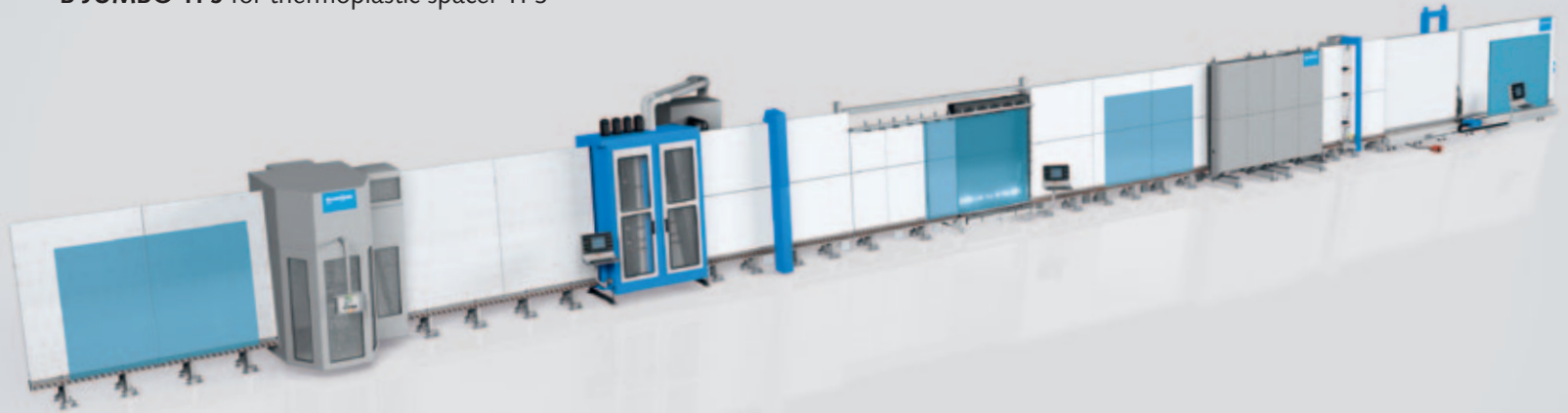


IMPRESSIVE. INSULATING GLASS MANUFACTURING IN MAXIMUM SIZE.

The system solution for maximum requirements

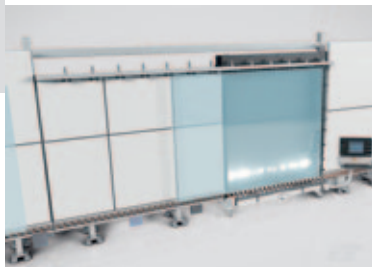
The insulating glass line **B'JUMBO** is an individual production solution that is specially designed for manufacturing of large sized insulating glass units. It is available in the following variants:

- **B'JUMBO** for conventional spacers
- **B'JUMBO FLEX** for flexible spacers
- **B'JUMBO TPS** for thermoplastic spacer TPS®



FRAMEPOSITIONER

Automatic positioning and pressing of upper frame edge



STEPPED I.G.

Synchronised assembly and gas filling of stepped insulating glass units

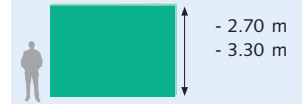


OFFLOADING

Handling device with support for the safe offloading of jumbo insulating glass units



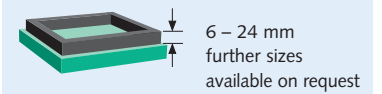
Working heights



Glass thickness



Spacer width



I.G. thickness



Weight



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 needs. Working together with you, we assemble the machines according to your individual requirements.

FRAME PRODUCTION

Bending, filling, coating and positioning of the spacers



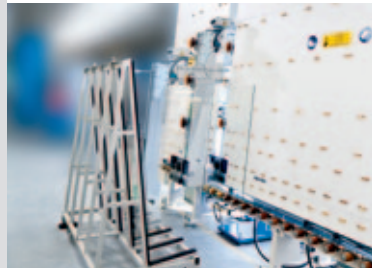
EDGE PROCESSING

Top-quality economic glass arissing



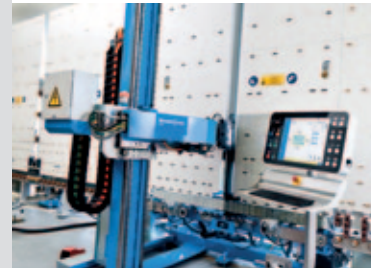
GLASS LOADING

Automatic glass plate separation up to 200 kg out of racks



EDGE DELETION

Edge deletion of rectangular and shaped formats



GLASS PLATE WASHING MACHINE

Continuous washing and drying of diverse glass plates



INSPECTION

Automatic, visual in-line inspection of glass plates



TURNING STATION

Automatic turning of coated glass plates within an insulating glass line



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 formats and dimensions



SIMPLE. PROTECTIVE TRANSPORT OF FLAT GLASS AND PLATES.

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

Handling systems from **Bystronic glass** allow flexible use 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



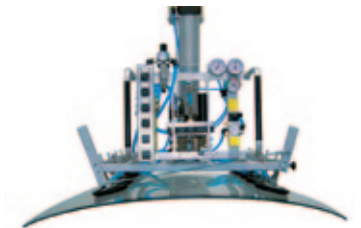
(BATTERY-POWERED) SUCTION FRAMES

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



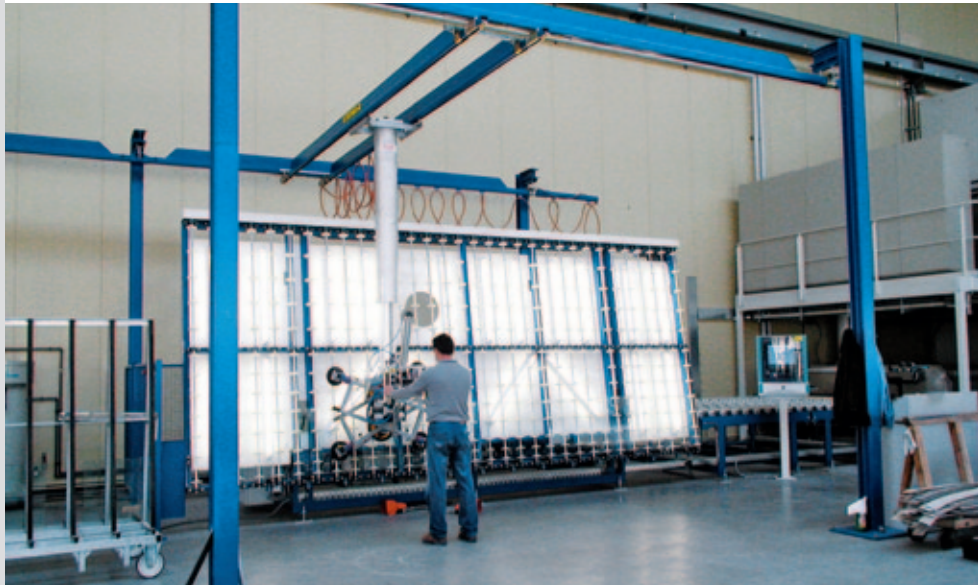
SPECIFIC. DUE TO TYPICAL CUSTOMER APPLICATIONS.

Craneways and slewing cranes individually integrated

Our X-Y lightweight craneways and slewing cranes are the optimal addition to your glass manufacturing. Due to the modular construction system we can be responsive on-site regarding your individual space requirements.

CRANEWAYS

We construct our X-Y lightweight craneways according to your production needs



SLEWING CRANES

A slewing crane with Easy-Lift supports the easy handling of glass plates



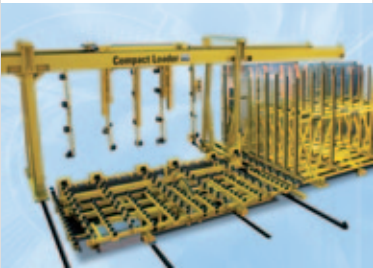
FITTING. CUTTING SOLUTIONS FOR EVERY REQUIREMENT.

A comprehensive product range of efficient cutting systems

Our **Bystronic glass** lines for insulating glass production 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 flat glass



CUTTING SYSTEMS

for laminated glass



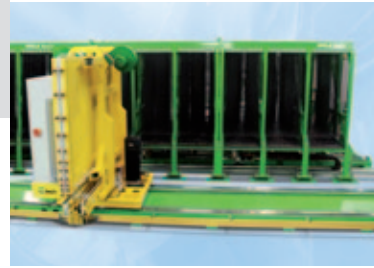
BREAKOUT SYSTEMS



STORAGE SYSTEMS



SORTING SYSTEMS



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.

CONSULTANCY & OPTIMISATION

Comprehensive, personal consultancy and plant optimisation by individual process simulation



TRAINING

Tailor-made programs for the best possible training success



MAINTENANCE CONTRACTS

Preventative service for a long service life of your machine



HOTLINE

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



MANUALS

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



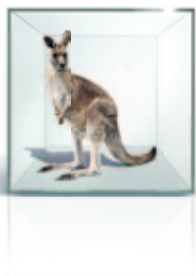
SPARE PART CATALOGUE

Order spare parts quickly and easily via the online catalog





Because we care



www.bystronic-glass.com
sales@bystronic-glass.com