B'COMFORT
YOUR ENTRY INTO THE WORLD OF I.G. MANUFACTURING.

YOU CAN ALWAYS RELY UPON:
- German-Swiss quality standards
- High efficiency and reliability
- Worldwide after-sales service
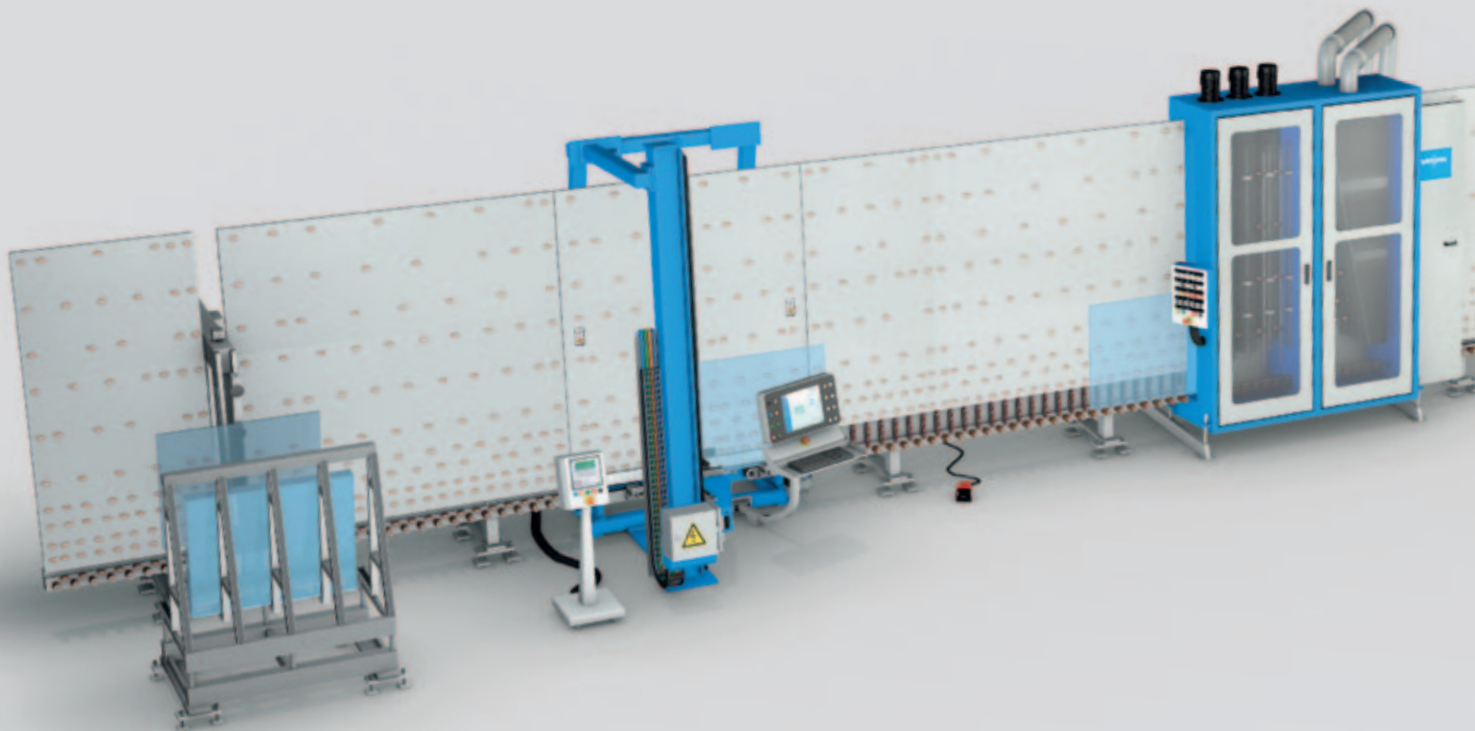- Various financing options

The start-up solution in automated insulating glass production

- Automatic vertical manufacturing line for the production of **up to 800 gas filled** I.G. units per shift
- Various additional **options** available
- **Easy to use** due to intuitive operator controls
- Outstanding **reliability** and excellent cost/performance ratio

- **All on one line** – rectangular, shaped and from 1- up to 3-sided stepped, gas filled I.G. unit manufacturing
- **Process stability** through
  – Automatic manufacturing control of stepped I.G. units
  – Automatic detection of low-E glass coating

EFFICIENT. RELIABLE. DURABLE.

High quality system components for maximum efficiency

The Bystronic glass **B'COMFORT** offers high quality gas filled I.G. unit manufacturing with an excellent cost/performance ratio. Due to the high productivity of the **B'COMFORT**, an output of up to 800 gas filled I.G. units can be achieved per shift. The excellent quality of the components results in reliability and long service life. The **B'COMFORT** includes numerous components as standard and various additional options.

OPTION
GLASS LOADING

- Safe separation of glass plates from the stack by special, swivel arm movement
- Application of heavy glass plates up to 200 kg
- Flexible adaption to different application conditions

OPTION
EDGE DELETION

- Continuous, automatic coated glass edge deletion
- Automatic dressing of grinding wheel
- Automatic wheel speed control
- Multiple-path edge deletion for widths > 10 mm

STANDARD
GLASS WASHING

- Continuous cleaning and drying of all kinds of glass plates
- Three separate brush-pairs for optimum cleaning
- External drives for easy maintenance
- Electronic rotation speed control for low-E glass

Illustration with optional features

INSPECTION AND FRAME POSITIONING
- Total visual glass surface monitoring
- Contrasting lighting for fast and efficient glass plate inspection
- Automatic height adjustment accommodates glass dimensions
- Program-controlled vertical and horizontal frame positioning girder

ASSEMBLING, PRESSING
OPTION GAS FILLING
- Automatic assembling and pressing of I.G. units
- Processing of various dimensions and spacer widths in any sequence
- Quick gas filling system with consistent, high gas filling capability
- Electronic pressing power control

AUTOMATIC SEALING
- Continuous, automatic I.G. unit sealing with different formats and dimensions
- Fast, volume-controlled dosing system
- Homogeneously sealed corners via nozzle/spatula system
- Hard- and software adaption for sealing depths up to 20 mm

STANDARD VERSION:
- **Glass washing**
- **Inspection and frame positioning**
- **Assembling and pressing**

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OPTION 1 **AIR FLOAT CONVEYORS**
Gentle glass transportation without aerial touching

OPTION 2 **GLASS LOADING**
Automatic glass loading to the I.G. line

OPTION 3 **EDGE DELETION**
Continuous, automatic coated glass edge deletion

OPTION 4 **GAS FILLING**
Quick gas filling system with consistent high gas filling capability

OPTION 5 **TILT TABLE**
Smooth I.G. unit transportation into horizontal position for manual sealing

OPTION 6 **AUTOMATIC SEALING**
Continuous, automatic sealing of I.G.

OPTION 7 **SHAPE PROCESSING**
Processing of a great variety of shaped formats

OPTION 8 **STEP PROCESSING**
Processing of up to 4-sided stepped, rectangular I.G. units without gas filling

TECHNICAL DATA	B'COMFORT	B'COMFORT WITH GAS
Working height	2.30 m / 2.70 m	2.30 m / 2.70 m
Processable dimensions	min. 190 x 350 mm	min. 190 x 350 mm
Using one-step pressing	up to 3500 mm length	up to 3500 mm length
Using two-step pressing	up to 5000 mm length	up to 4500 mm length without gas filling
Processable dimensions of glass loading (Option 2)	min. 340 x 420 mm max. 2000 x 2000 mm	min. 340 x 420 mm max. 2000 x 2000 mm
Insulating glass thickness	12 – 60 mm	12 – 60 mm
Glass thickness	3 – 15 mm	3 – 15 mm
Spacer width	6 – 24 mm	6 – 24 mm
Conveyor speed	48 m/min	48 m/min
Vertical frame setback	up to 250 mm	up to 250 mm
Types of I.G. units	• Rectangular units • Shaped units • Double units • Triple units • 1- up to 4-sided stepped double units	- Rectangular units - Shaped units - Double units - Triple units - 1- up to 3-sided stepped double units
Processing of low-E glass	• Soft- and hard-coated • Automatic detection of coating	- Soft- and hard-coated - Automatic coating detection

Errors and technical modifications reserved 05.15

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