

## Automated integrated sash glazing line

The most efficient solution for the production of windows  
incorporating Sashlite™ technology

- ♦ Automatic vertical manufacturing line for the production of up to 800 integrated sash units per shift
- ♦ Elimination of a separate I.G. unit by bonding the glass lites directly to both sides of the window sash profile
- ♦ Variable production sequence of rectangular sash formats
- ♦ Processing of a wide variety of sash sizes and profile designs
- ♦ Automatic and precise application of desiccated barrier material and high performance sealants
- ♦ Simultaneous assembling, gas filling and pressing of a complete sash unit





## High quality system components for maximum efficiency

The new sashline, developed by Bystronic glass, eliminates the need for a separate I.G. unit by incorporating the latest Sashlite™ technology.

The sashline was developed with high quality components that are driven by the most advanced Siemens technology. It integrates glass washing and inspection in-line with the sash sealing process. As a result the sashline offers consistent quality while maximizing unit throughput.

Built on a modular platform sashline can be adapted into any manufacturing process according to the customer's specific requirements.

### Swivel Station

- ◆ Reliable transition between the glass plate processing line and sash processing line into the final assembly robot
- ◆ Incorporates flat drive belt for gentle handling

### Inspection Station

- ◆ Total visual surface monitoring of glass lites
- ◆ Contrastive lighting of inspection area for quick and reliable glass plate inspection
- ◆ Automatic height adjustment accommodates glass dimension

### Glass Plate Washing Machine

- ◆ Continuous cleaning and drying of glass lites
- ◆ Slip and distortion free transport by a synchronous drive system
- ◆ Chainless brush and transport drives on the outside of the machine
- ◆ Maintenance free, water protected brush bearings



### Assembly Robot

- ◆ Automatic assembling, gas filling and pressing of rectangular units
- ◆ Accurate gas-fill rates by innovative gas filling technology
- ◆ Consistent and reliable glass and sash integrated I.G. assembly by precise robotic press fingers
- ◆ Simultaneous pressing of both glass lites



### Preparing Robot

- ◆ Safe and reliable buffering of sash and glass elements
- ◆ Pre-positions glass and sash to maximize assembly robot output
- ◆ Automatic height adjustment accommodates sash and glass dimension
- ◆ Split, flat drive belt design pre-positions the sash in the middle and the two glass lites on the outer sides



### SashSeal™ Applicator

- ◆ Simultaneous, precise and continuous application of high performance bonding material
- ◆ Dual nozzle design, with fast reacting and volume controlled dosing system for consistent quality
- ◆ Parallel sealant application on front and back side of the sash
- ◆ Constant distance of nozzles to sash by gap keeper



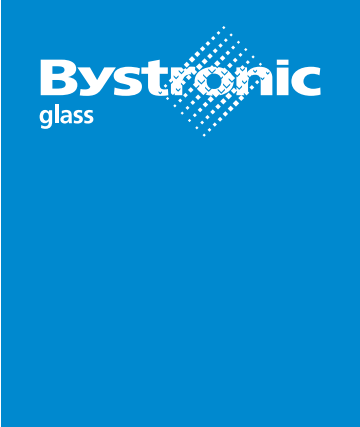
### Muntin Station

- ◆ Conveyor station for manual application of muntin bars into the sash
- ◆ Automatic height adjustment accommodates sash dimension
- ◆ User-friendly operation due to open equipment design



### SashDri™ Applicator

- ◆ Precise application of desiccated barrier material
- ◆ Fast reacting and volume controlled dosing system for consistent quality
- ◆ Material savings by U-shaped dessicant application
- ◆ Continuous material application in the sash corner by means of a rotating nozzle



# sashline

Technical data	sashline 1.6m standard design
Maximum glass size	1400 mm x 2000 mm (55.1 x 78.7 in.)
Minimum glass size	250 mm x 300 mm (9.8 x 11.8 in.)
Glass thickness	2.4 mm – 6.0 mm (0.09 – 0.24 in.)
Maximum sash size	1600 mm x 2200 mm (63.0 x 86.6 in.)
Minimum sash size	300 mm x 350 mm (11.8 x 13.8 in.)
Maximum sash width	100 mm (3.9 in.)
Minimum sash width	25 mm (1.0 in.)
Maximum sash height	100 mm (3.9 in.)
Minimum sash height	20 mm (0.79 in.)

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