Bystronic glass

Lenhardt Technology

automatic sealing

Sealing robots

Sealing technology with new dimensions

Common product characteristics:

- Continuous, automatic sealing of insulating glass units of different formats and dimensions
- Fast, volume-controlled dosing system
- Gear pump dosing technology ensures exact dosing
- Homogeneously sealed corners due to nozzle/spatula system
- Excellent mixing and dosing quality for all field-proven 1- or 2-component sealants for insulating glass
- Patented conveyor systems for safe and clean transport
- Modular engineering concept
- Many upgrade possibilities

ultimate sealing technology

Innovative sealing technology for individual requirements

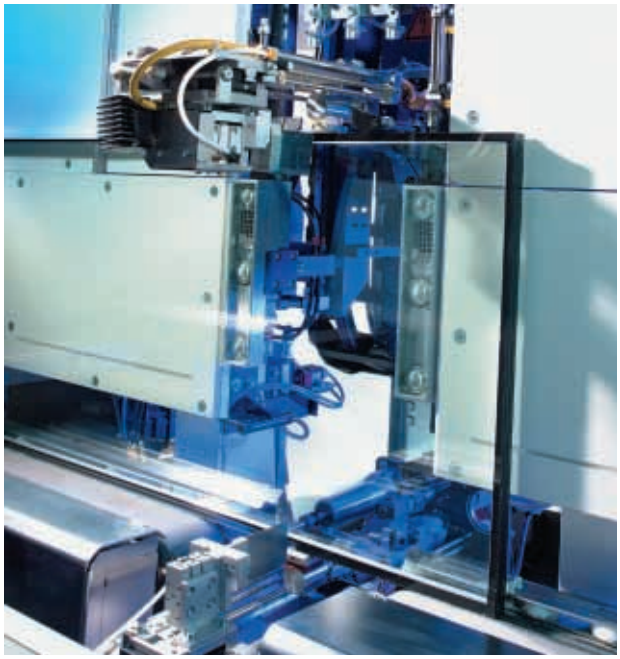
The sealing robots of Bystronic-Lenhardt Technology have been developed for quality, reliability and efficiency on a high level:

- **Exact sealing all-around, even in case of irregular sealing depths**
- **Automatic nozzle centering**
- **No nozzle exchange for usual double insulating glass types**
- **Safe sealing of narrow air spaces by means of following guiding system for glass plates**
- **Electronically adjustable mixing ratio**
- **Only approx. 0,16 litres mixed material in the system**
- **Rinsing program for cleaning of mixing unit with base component**
- **Rinsing cabinet for cleaning of the mixing unit and the nozzles with environmentally flushing detergents**
- **Quick-action lock system for fast exchange of the nozzle and the mixing unit**
- **V-shaped, low wearout conveyor system in standard sealing robots for gentle glass transport**
- **Special conveyor system for up to 4-sided stepped insulating glass units: Automatic adjustment of the conveyor system via data input for bottom edge (both glass plates supported) and spacer width (option)**
- **Take-off support for easy handling of insulating glass units**
- **Air cushion support wall serves as stabilization for take-off of large insulating glass units**
- **Free access to operator side**
- **Automatic sealing of rectangular insulating glass units without prior data input**
- **At sealing robots for shaped formats data input according to recorded shape catalogue manually via display or by disc**
- **Sealing of double and triple insulating glass units possible**

Basic configurations of sealing robots

Nozzle	Glass height	Glass format	Sealant
1-head / 2-head	max. 1600 mm (5.249 feet)	Rectangular / Shape	PS / PU / SI
1-head / 2-head	max. 2300 mm (7.545 feet)	Rectangular / Shape	PS / PU / SI
1-head / 2-head	max. 2700 mm (8.858 feet)	Rectangular / Shape	PS / PU / SI
1-head / 2-head	max. 3200 mm (10.498 feet)	Rectangular / Shape	PS / PU / SI
1-head	max. 1600 mm (5.249 feet)	Rectangular / Shape	Hotmelt
1-head	max. 2300 mm (7.545 feet)	Rectangular / Shapel	Hotmelt
1-head	max. 2700 mm (8.858 feet)	Rectangular / Shape	Hotmelt

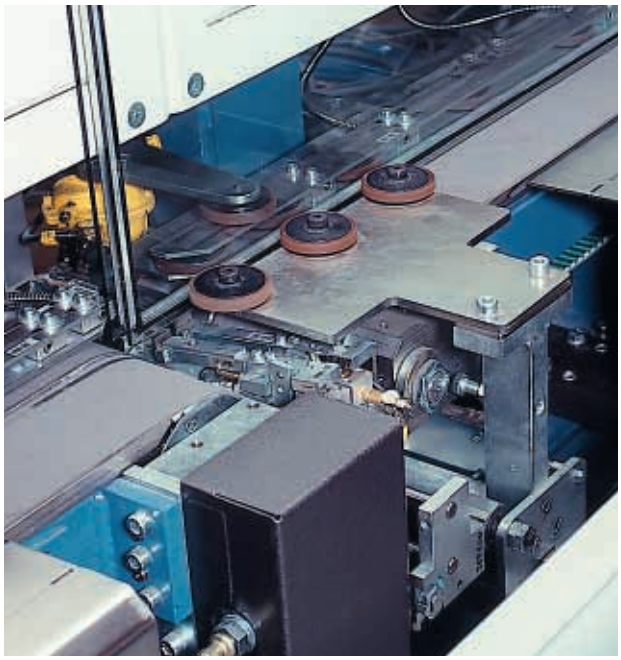
high efficient sealing



High efficiency by simultaneous sealing of both longitudinal edges in 2-head mode

Sealing of 4-sided stepped insulating glass units (rectangular and shaped formats)

Fast, volume-controlled dosing system for 1-component hotmelt material



Automatic measuring of air space

Quick-change unit for processing a second type of sealant, here polysulphide and silicone

utmost flexibility

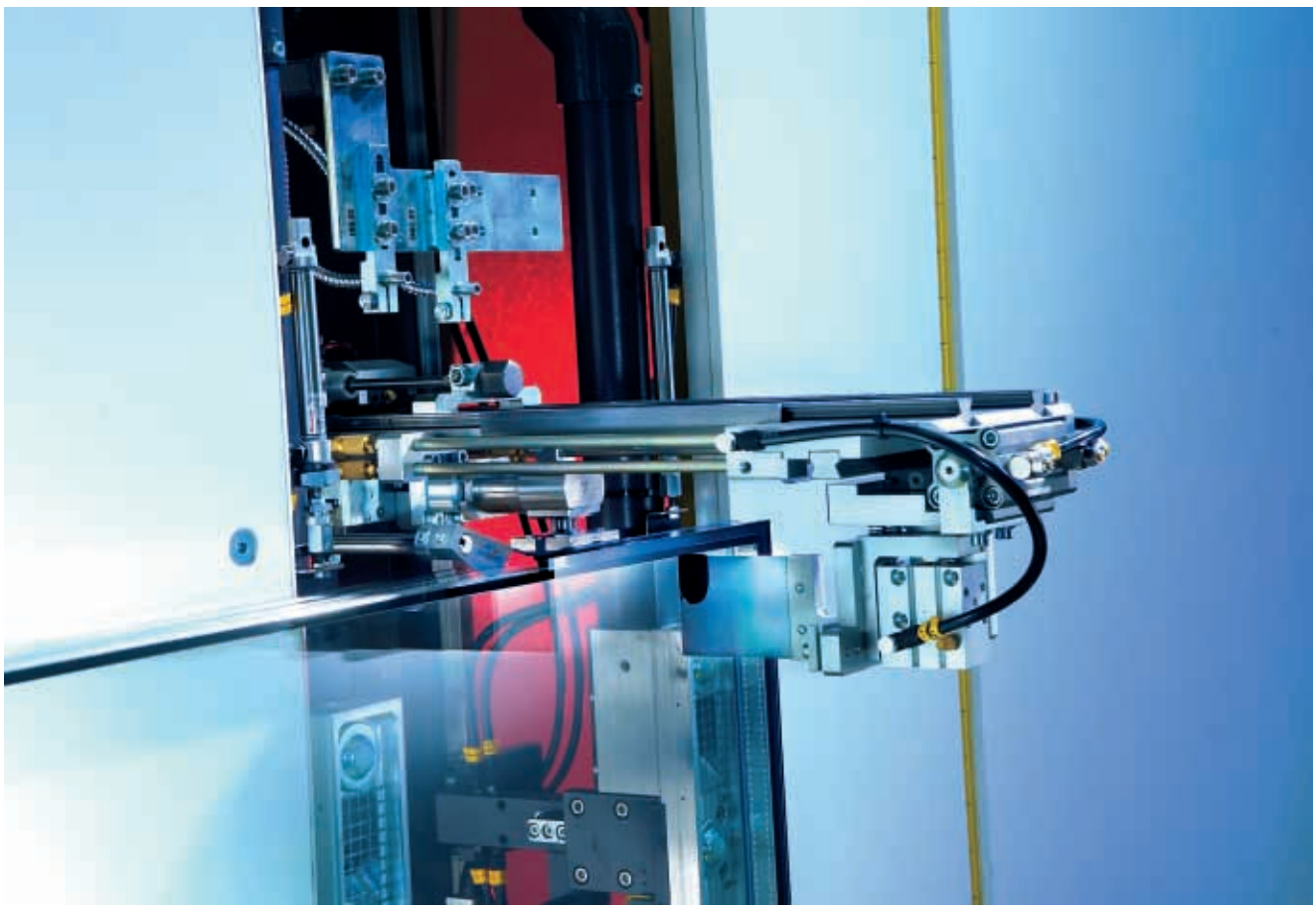
Quick-change system for nozzles

Gentle, non-soiling glass transport

Automatic adjustment of the conveyor system via data input

Special conveyor system for up to 4-sided stepped insulating glass units

Innovative sealing technology for rectangular and shaped formats with 1-component- or 2-component sealants for insulating glass, here e.g. with extended run-out section for I.G. units up to 5 m long (16.404 feet) with support system for take-off of heavy insulating glass units



Exact dosing due to metering of the sealing depth all around

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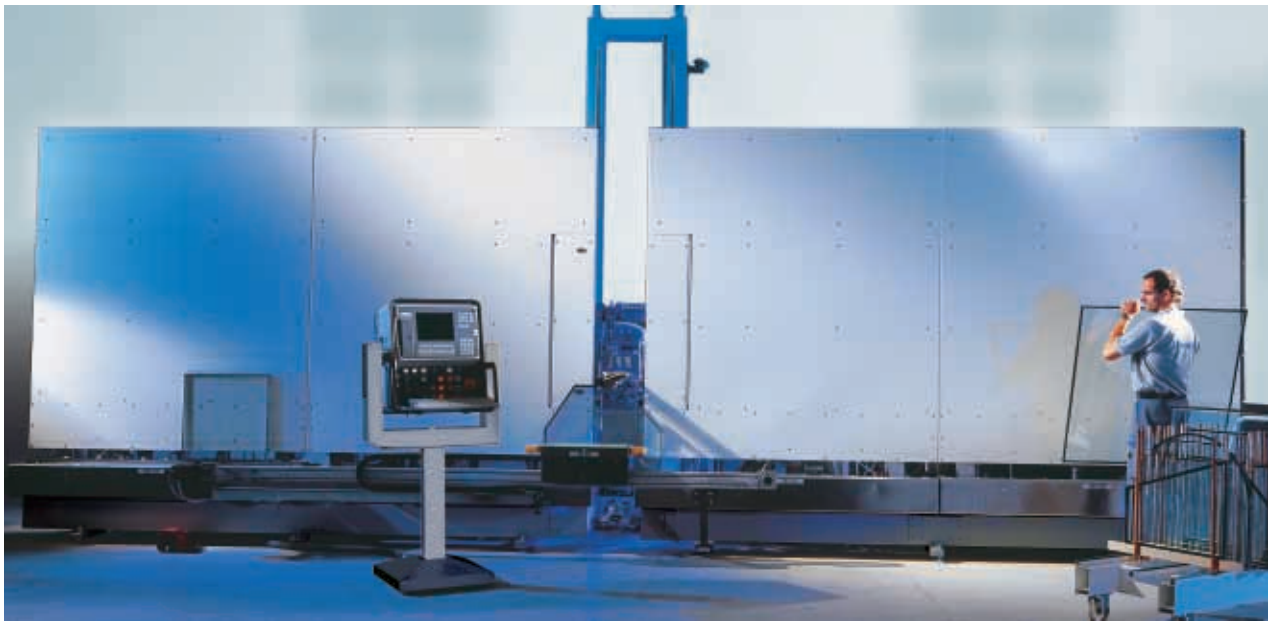
Options

- Automatic sealing of 1- up to 4-sided stepped insulating glass units
- Alternative sealing of insulating glass units with different spacer profiles
- Quick-change system for processing a second type of sealant (e.g. Silicone)
- Sealing depths up to 20 mm (0.787")
- 200 litres drum pump for B component
- Extended run-out section for I.G. units up to 5 m long (16.404 feet) with support system for take-off of heavy insulating glass units
- Nozzles for special applications
- Sealing of 4 mm and 5 mm (0.157" and 0.196") sealing widths
- On-line data input

Technical data	
Working heights	1.60 m / 2.30 m / 2.70 m / 3.20 m (5.249/7.545/8.858/10.498 feet)
Processable dimensions	min. 190 x 350 mm (7.480" x 13.779") max. 3200 x 4000 mm (10.498 x 13.123 feet) optional up to max. 5000 mm (16.404 feet) and 6000 mm (19.685 feet) length
Sealing width	6 – 24 mm (0.236" – 0.944")
Sealing depth	2 – 10 mm (0.078" – 0.393") optional up to 20 mm (0.787")
Insulating glass thickness	12 – 60 mm (0.472" – 2.362")
Glass thickness	max. 15 mm (0.590") optional up to 45 mm (1.771")

Sealing of stepped insulating glass units	
Glass edge stepping at leading, upper and trailing edge	max. 250 mm (9.842")
Glass edge stepping at lower edge	max. 50 mm (2.214")



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