

Automatic Super Spacer® I.G. manufacturing line

The most efficient solution for the manufacturing of up to 1200 I.G. units per shift

- ◆ Automatic manufacturing of gas filled and sealed warm edge I.G. units
- ◆ Synchronization of the spacer application with the I.G. manufacturing process
- ◆ Any production sequence of rectangular formats
- ◆ All shaped formats according to optional shape catalog with data transfer
- ◆ Gentle transport of the glass plates on air float conveyors
- ◆ Integrated dry storage of 4 different spacer materials
- ◆ TriSeal™ application with polyisobutylene (option)



cleaning

- ◆ Continuous cleaning and drying of different glass thicknesses
- ◆ Stainless steel machine housing, drying zone with sound protection
- ◆ Non-wearing, chainless brush- and transport drives outside of the machine
- ◆ Energy-saving water-circuit system with separate washing and rinsing zones
- ◆ Maintenance-free, water protected bearings of the brushes
- ◆ Synchronous drive of vertical transport shafts for slip and distortion free glass plate transport
- ◆ Water tank with heater integrated in the machine housing

Options

- ◆ Automatic coating recognition
- ◆ Electronic frequency control of brush drives for especially sensitive coatings

applying

- ◆ Direct application of the Super Spacer® material onto vertically positioned glass plate in a continuous production process
- ◆ Highest application accuracy due to dynamic drives
- ◆ Special cuts for very small angles
- ◆ Stepless angled cutters for perfect corner adjustment
- ◆ Continuous spacer set-back on all sides, controlled by parameter
- ◆ Quick material change due to integrated dry storage of 4 different spacer materials

Options

- ◆ Triple I.G. units
- ◆ Software for waste optimization
- ◆ Sealing of the corner joint
- ◆ Marking of the muntin bar position
- ◆ TriSeal™ application with polyisobutylene

assembling

- ◆ Simultaneous assembling, gas filling and pressing of insulating glass units
- ◆ Quick gas filling system for processing of Argon as standard filling gas
- ◆ Short filling times, independent of the length of the I.G. unit
- ◆ Minimized gas loss due to program controlled filling parameters
- ◆ Pressing of oversize I.G. units possible without gas filling
- ◆ Adjustable, precise press plate movement

Options

- ◆ Tandem operation with or without separated press plates
- ◆ Additional equipment for gas filling with Krypton as well as gas mixtures
- ◆ One- or two-chamber-filling of triple I.G. units
- ◆ Integrated supervision of gas filling process

sealing

- ◆ 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 V-belt conveyor systems for safe and clean transport
- ◆ Modular engineering concept

Options

- ◆ Sealing of triple I.G. units
- ◆ Hotmelt or warmmelt material
- ◆ Many upgrade possibilities





Easy-to-use operator interface with touch screen display

Technical data	first'flexspacer
Working heights	1.60 m / 2.30 m / 2.70 m (63.0 in. / 90.6 in. / 106.3 in.)
Processable dimensions*	min. 190 mm x 350 mm (7.5 in. x 13.8 in.) max. length 2500 mm (98.4 in.) optional: 2700 mm x 6500 mm (106.3 in. x 255.9 in.)
I.G.-thickness*	12 – 60 mm (0.47 in. – 2.36 in.)
Glass thickness*	3 – 15 mm (0.12 in. – 0.59 in.)
Spacer width	8 – 20.5 mm (5/16 in. – 13/16 in.)
Spacer frame setback*, adjustable	3 – 10 mm (0.12 in. – 0.39 in.)
Processable materials	Only tested and approved Super Spacer® and sealing materials, suitable for automatic application, may be used

*) Other data on request