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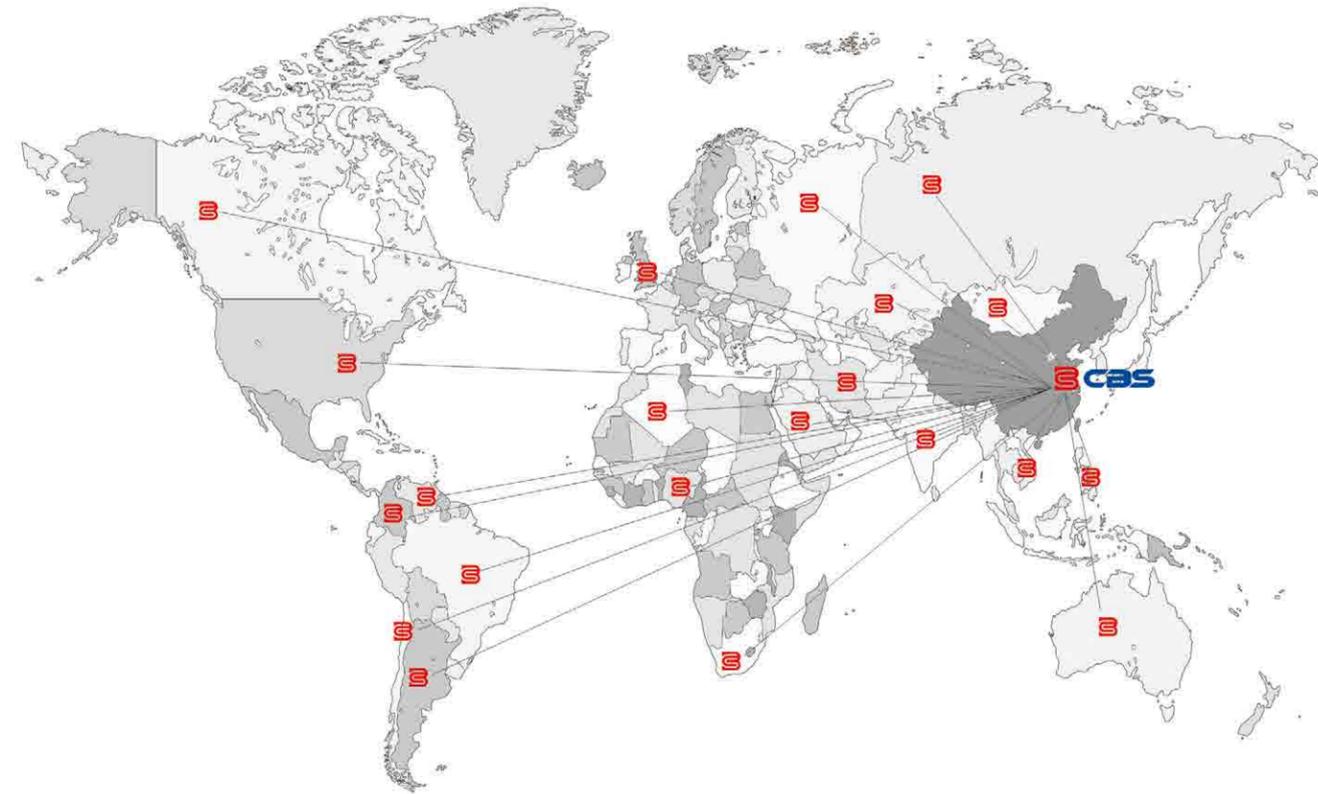
Insulated Glass Production Line
for Worldwide Customers

CBS Industry Company Limited

Welcome to CBS



Our mission: to create and increase the value of our customers' investment.
Our vision: to be our customers' Chinese Best Supplier.



Brief Introduction

CBS Industry Co Ltd is a dynamic and fast growing company mainly devoted to manufacturing and exporting high quality products with reasonable price to fulfill the needs of the most captious buyers. Our products range including the industries such as but not limited to uPVC window machine, aluminium windows machine, industrial aluminium profiles processing machine, insulated glass unit production line, insulated glass unit components etc.

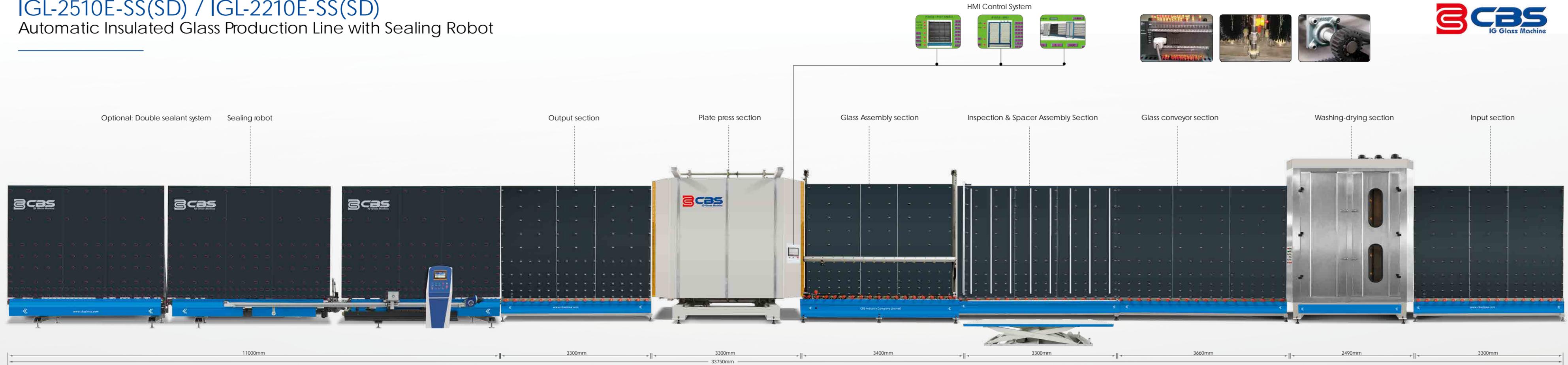
We the employees promise to totally satisfy all of our customers by providing quality products, on time delivery and excellent service-before-sale, service-during-sale and service-after-sale. We further commit to the utilization of a continuous improvement program. We will use corrective action procedures not to just correct defects, but to improve our service exceeding our customers' expectations. This commitment will encompass our employees, management, procedures, and methods. We will also require the same commitment from our many suppliers.

With our experience and a wonderful track in the industry, we will guide you and give you the right starting for the best finish. We give appropriate technical support through every stage to achieve your mission of excellence.



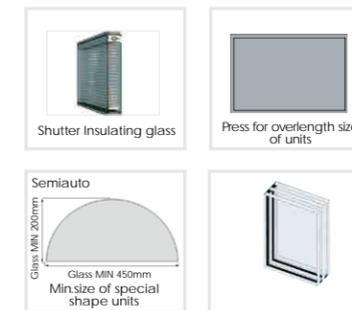
IGL-2510E-SS(SD) / IGL-2210E-SS(SD)

Automatic Insulated Glass Production Line with Sealing Robot



Equipment Features

- Automatically distinguish the coating side of coated glass and Low-E glass.
- PLC control system with touch screen operation.
- Machine work and fault dynamic display.
- Outside assembly lines can produce standard double layer IG and three layers IG.
- Lines are available for both of inside and outside panel press, which can produce stepped IG, standard double layer IG and three layers IG (Optional).
- Designed for curtain wall glass, double layer IG, blind IGU and three layer IG glass.
- IG press design-gear and chain synchronous device driven by hydraulic station.
- Frequency control designed for glass transmission.
- Output: 800 units-single shift 8 hours (double layer IG, size 1M).
- Plate press openable, easy for maintainance.
- Integrated with double group sealant sealbot, features high efficiency and productivity.



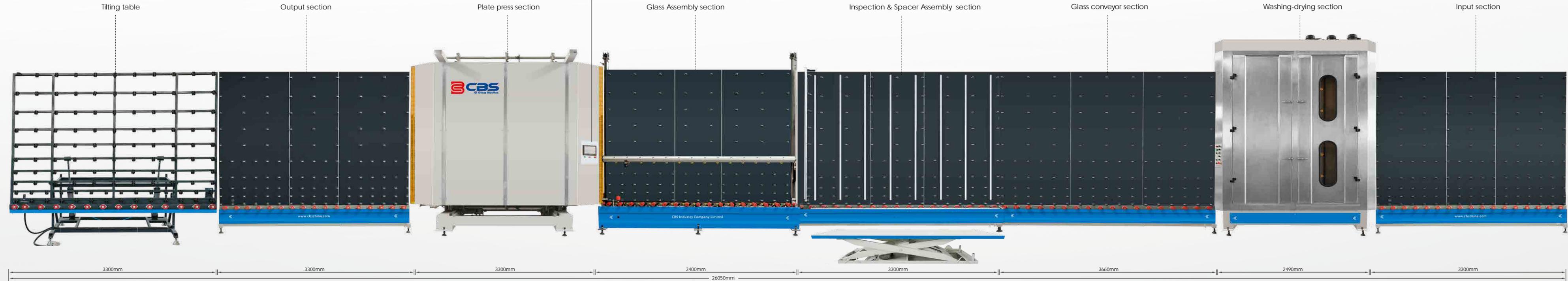
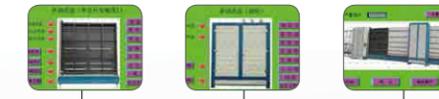
Technical Parameter

Model	IGL-2510E-SS / IGL-2210E-SS	Model	IGL-2510E-SS / IGL-2210E-SS
Power	37kW	Glass washing speed	0~8m/min
Max glass size	2500 × 3000/2200 × 3000mm	Working speed	0~45m
Min glass size	300 × 450mm	Air flow (air pressure)	0.8m³/min (Mpa)
Glass thickness	3~15mm	Water electrical conductivity	≤50 μS/cm
Max I.G. Unit thickness	12~50mm	Overall dimension	33750 × 2300 × 3400/32250 × 2300 × 3200mm

IGL-2508E / IGL-2208E

Automatic Insulated Glass Production Line

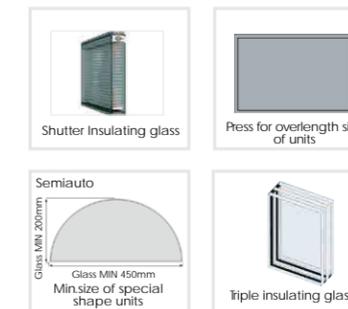
Numerical Control System



Equipment Features

- Automatically distinguish the coating side of coated glass and Low-E glass.
- PLC control system with touch screen operation.
- Machine work and fault dynamic display.
- Outside assembly lines can produce standard double layer IG and three layers IG.
- Lines are available for both of inside and outside panel press, which can produce stepped IG, standard double layer IG and three layers IG (Optional).

- Designed for curtain wall glass, double layer IG and three layer IG glass.
- IG press design-gear and chain synchronous device driven by hydraulic station.
- Frequency control designed for glass transmission.
- Output: 800 units-single shift 8 hours (double layer IG, size 1M).
- Panel press openable, easy for maintainance.
- With function of blind IG making.



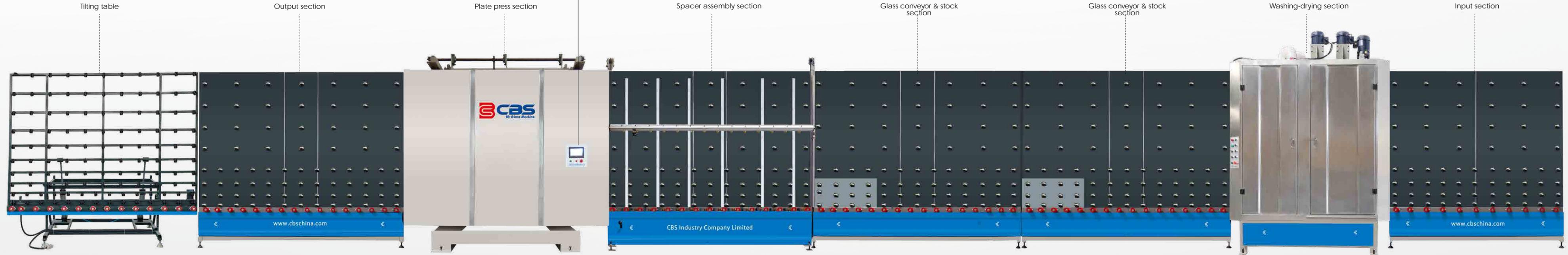
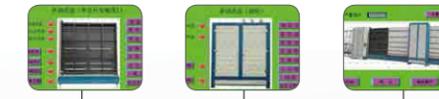
Technical Parameter

Model	IGL-2508E/IGL-2208E	Model	IGL-2508E/IGL-2208E
Power	27.25kW	Glass washing speed	0~8m/min
Max glass size	2500 × 3000/2200 × 3000mm	Working speed	0~45m
Min glass size	300 × 450mm	Air flow (air pressure)	0.8m³/min (Mpa)
Glass thickness	3~15mm	Water electrical conductivity	≤50 μS/cm
Max I.G. Unit thickness	12~50mm	Overall dimension	26050 × 2300 × 3400/26050 × 2300 × 3200mm

IGL-2008E / IGL-1808E

Automatic Insulated Glass Production Line

Numerical Control System



Equipment Features

- Automatically distinguish the coating side of coated glass and Low-E glass.
- PLC control system with touch screen operation.
- Machine work and fault dynamic display.
- Outside assembly lines can produce standard double layer IG and three layers IG.
- Production lines are available for both of inside and outside panel press, which can produce stepped IG, standard double layer IG and three layers IG(Optional).
- Designed for curtain wall glass, double layer IG and three layer IG glass.
- IG press design-gear and chain synchronous device driven by hydraulic station.

- Frequency control designed for glass transmission.
- Production Line-I is spacer attaching in assembly section.Production Line-II is spacer attaching in apart assembly section.
- Output: 800IG units-single shift 8 hours (double layer IG, size 1M).
- Panel press openable, easy for maintainace.
- Inside panel press, it can produce stepped IG(Optional).
- Frequency control designed for glass transmission.
- Panel press openable, easy for maintainace.
- With function of IG online gas filling.

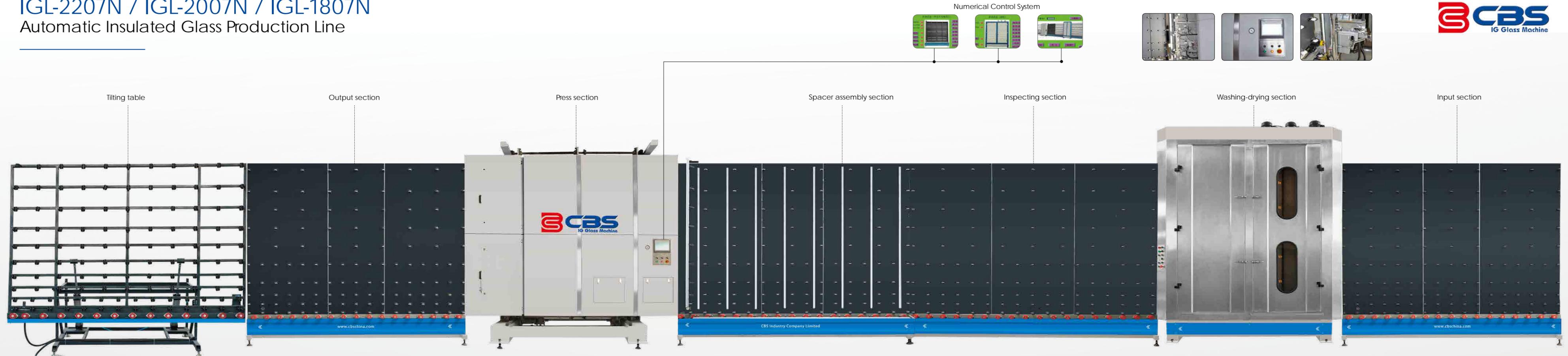


Technical Parameter

Model	IGL-2008E/IGL-1808E	Model	IGL-2008E/IGL-1808E
Power	20.87kW	Glass washing speed	0~8m/min
Max glass size	2000 × 2500/1800 × 2500mm	Working speed	0~45m
Min glass size	300 × 540mm	Air flow (air pressure)	0.8m³/min (Mpa)
Glass thickness	3~12mm	Water electrical conductivity	≤50 μS/cm
Max I.G. Unit thickness	12~40mm	Overall dimension	21990 × 2100 × 3050/21990 × 2100 × 2850mm

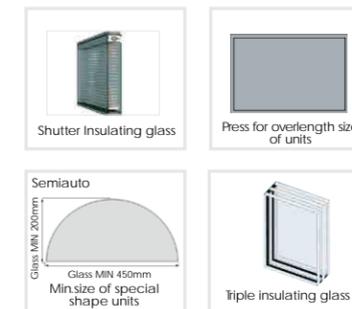
IGL-2207N / IGL-2007N / IGL-1807N

Automatic Insulated Glass Production Line



Equipment Features

- Automatically distinguish the coating side of coated glass and Low-E glass.
- PLC control system with touch screen operation.
- Machine work and fault dynamic display.
- Standard double layer IG and three layers IG.
- Inside panel press, it can produce stepped IG(Optional).
- Frequency control designed for glass transmission.
- Panel press openable, easy for maintainace.
- With function of IG online gas filling.



Technical Parameter

Model	IGL-2207N/2007N/1807N	Model	IGL-2207N/2007N/1807N
Power	24.80kW	Glass washing speed	0~8m/min
Air flow (air pressure)	0.8m ³ /min (Mpa)	Working speed	0~45m
Min glass size	300 × 450mm	Max glass size	2200 × 3000/2000 × 2500/1800x2500mm
Glass thickness	3~15mm	Water electrical conductivity	≤50 μS/cm
Max I.G. Unit thickness	12~50mm	Overall dimension	21350 × 2300 × 3100/18300 × 2300 × 2900/18300 × 2300 × 2700mm

Sealbot-2500 / Sealbot-2200 / Sealbot-2000

Insulated Glass Automatic Sealing Robot



Equipment Features

- Suitable for glass finely processing enterprise automatic production, effectively reducing the labor cost and improving the production efficiency.
- Touch HMI, simplify thinking design, automatic intelligent control, simple and convenient operating.
- Adopt Japan YASKAWA servo control system, high efficiency and stable equipment operating.
- Synchronous belt conveying makes smoothly glass transmitting and precision positioning.
- Coating sealant under no dislocation of two glass unit, full glass edge without air line, enrich glass corner no need more trimming
- High standard spare parts ensure stable using in long life.

Technical Parameter

Model	SEALBOT-2500	SEALBOT-2200	SEALBOT-2000
Max. glass size	3500 × 2500mm	3000 × 2200mm	2500 × 2000mm
Min. glass size	300 × 180mm	300 × 180mm	300 × 180mm
Glass thickness	12~60mm	12~60mm	12~60mm
Coating depth	3~18mm	3~18mm	3~18mm
Aluminum frame width	6~24mm	6~24mm	6~24mm
Coating speed	5~40m/min	5~40m/min	5~40m/min
Transmission speed	5~50m/min	5~50m/min	5~50m/min
Hydraulic pressure	<100kgf/cm ²	<100kgf/cm ²	<100kgf/cm ²
Air pressure	0.6~0.8Mpa	0.6~0.8Mpa	0.6~0.8Mpa
Total power	13kW	11.5kW	10kW
Overall dimension	11010 × 3500 × 3400mm	9200 × 3500 × 2900mm	8200 × 3500 × 2900mm

Sealbot-2500D / Sealbot-2200D / Sealbot-2000D

Insulated Glass Automatic Sealing Robot



Equipment Features

- Suitable for glass finely processing enterprise automatic production, effectively reducing the labor cost and improving the production efficiency.
- Touch HMI, simplify thinking design, automatic intelligent control, simple and convenient operating.
- Adopt Japan YASKAWA servo control system, high efficiency and stable equipment operating.
- Synchronous belt conveying makes smoothly glass transmitting and precision positioning.
- Coating sealant under no dislocation of two glass unit, full glass edge without air line, enrich glass corner no need more trimming
- With two sets of independent sealant supply system, exchanging different kinds of sealant easily.
- High standard spare parts ensure stable using in long life.

Technical Parameter

Model	SEALBOT-2500D	SEALBOT-2200D	SEALBOT-2000D
Max. glass size	3500 × 2500mm	3000 × 2200mm	2500 × 2000mm
Min. glass size	300 × 180mm	300 × 180mm	300 × 180mm
Glass thickness	12~60mm	12~60mm	12~60mm
Coating depth	3~18mm	3~18mm	3~18mm
Aluminum frame width	6~24mm	6~24mm	6~24mm
Coating speed	5~40m/min	5~40m/min	5~40m/min
Transmission speed	5~50m/min	5~50m/min	5~50m/min
Hydraulic pressure	<100kgf/cm ²	<100kgf/cm ²	<100kgf/cm ²
Air pressure	0.6~0.8Mpa	0.6~0.8Mpa	0.6~0.8Mpa
Total power	13kW	11.5kW	10kW
Overall dimension	11010 × 3500 × 3400mm	9200 × 3500 × 2900mm	8200 × 3500 × 2900mm

SBC-2525 CNC Spacer Bending Machine



Equipment Features

- PLC control, touch screen simple operation.
- Feeding system adopts CNC servo motor, bending angle uses CNC control system.
- Four material storage slots for four different specifications of spacers.
- Bending and cutting automatically avoid the connection, the roundness, automatically cut after bending.
- With manual operation model, easy to debug and repair.
- It can make triangle, rectangle, positive five Squareness, positive hexagon, roundness shape and so on.

Technical Parameter

Voltage	380V/50Hz
Air pressure	0.7Mpa
Aluminum bar specification	6-20mm
Aluminium bar size	200 × 250 ~ 2500 × 2500mm
Bending angle error	± 0.3°
Total power	4kW
Feeding Speed	0-90m/min
Data Number	Same time set 4 specification × 8size
Overall dimension	10000 × 2200 × 2600mm

SBH-2525 Semi-automatic Spacer Bending Machine



Equipment Features

- This machine is used for bending aluminum spacer. It can finish locating, bending and cutting aluminum spacer one time automatically.
- PLC control.
- It features easy operation, reliable positioning, steady running and large processing range.

Technical Parameter

Power supply	380V/ 50Hz
Air pressure	0.6Mpa
Aluminum bar specification	5.5-26.5mm
Aluminium frame size	Min. 350 × 350mm Max. 2500 × 2500mm
Bending angle error	± 0.3°
Total power	2.5kW
Feeding speed	0~120m/min
Overall dimension	4400 × 1600 × 2300mm

BEM-05 / BEM-05D Automatic Butyl Extruder



Equipment Features

- Advanced gas-liquid pressure boost system makes sure the stable pressure and energy saving.
- PLC control.
- Speed frequency control, speed adjustable (optional).
- Spray nozzle space manual-adjusting when working.
- Preheat available.
- Non butyl automatic alarm system.

Technical Parameter

Power	4kW
Voltage	380V/220V
Conveying speed	21m/min/28m/min
Extruding Temperature	110~160°C
Air pressure	0.5~0.8Mpa
Extruding pressure	10~15Mpa
Adjustable range of extruding nozzle	6~20mm
Overall dimension	3000 × 650 × 1000mm

BEM-10 Automatic Butyl Extruder



Equipment Features

- Advanced gas-liquid pressure boost system makes sure the stable pressure and energy saving.
- PLC control, touch screen operation.
- Speed frequency control.
- Spray nozzle space self-adjusting.
- Preheat available.
- Non butyl automatic alarm system.

Technical Parameter

power	4kW
Voltage	380V/50Hz
Conveying speed	6~20m/min
Extruding Temperature	110~160°C
Air pressure	0.5~0.8Mpa
Extruding pressure	10~15Mpa
Adjustable range of extruding nozzle	6~20mm
Overall Dimension	3000 × 650 × 1025mm

SDG-05SK Double-group Sealant Extruder



Equipment Features

- This machine is produced with the best technology in China and abroad. Used for coating the second sealant of insulating glass unit.
- A (white) and B (black) component sealant pump use South Korean pneumatic pump, reversing sensitive and reliable.
- Unique convenient adjustable ratio, guarantee the accurate sealant ratio upon to highest requirements.
- Sealant extruding is continuous and even with good sealing finish, high efficiency.

Technical Parameter

Mixing ratio	6:1~14:1
A drum	55gallon (200L)
B drum	5gallon (20L)
Sealant pressure ratio	50:1
Max. air consumption	1.2m ³ /min
Air pressure	0.6~0.8Mpa
Overall dimension	1100 × 950 × 1630mm

SDG-01 Double-group Sealant Extruder



Equipment Features

- Adopt pneumatic cylinder to provide power.
- Domestic sealant gun, stainless steel mixer.
- High pressure protect device.
- Anti-back flow control structure.
- Mixed rate detector can control the rate of two kinds of sealant.

Technical Parameter

Mixing ratio	6:1~14:1
A drum	55gallon (200L)
B drum	5gallon (20L)
Sealant pressure ratio	50:1
Max. air consumption	1.5m ³ /min
Air pressure	0.6~0.8Mpa
Overall dimension	1200 × 1100 × 2500mm

FRM-2500 / 2200 LOW-E Glass Film Removing Machine



GWV-2500 / 2200 / 2000 / 1800 Vertical Glass Washing Machine



Equipment Features

- CNC system control system, the parameter setting is fast and convenient.
- Touch screen operation interface, automatically monitor machine running state.
- 4 axis servo motors movement ensures precise position, free change of glass running direction enables easy connection of any production line.
- Automatically test glass size and no need changing wheel for uneven width film removing.
- Horizontal wheel working method can decrease the wheel wearing.
- Linear slide unit enable to get good film removing result.
- Intelligent memory for the same glass size, high efficiency.
- Automatically adjust the air pressure of wheel moving, achieve good film removing result.
- Automatically distinguish the coating side of coated glass and Low-E glass.
- Special shape available.

Technical Parameter

Power	17kW 3P 380V 50Hz
Glass size	Max:2450 × 3000mm Min:300 × 600mm
Wheel loss	5000~6000m/PCS, Film Removing Width:15mm
Wheel rotary speed	0~2700rpm Inverter driving
Glass conveyor height	450 ± 50mm
Glass thickness	3~19mm
Film removing width	10~150mm
Removing speed	0~30m/min(Adjustable)
Accuracy	± 0.3mm
Air pressure	0.6~0.8MPa
Overall dimension	8200 × 1800 × 3500mm

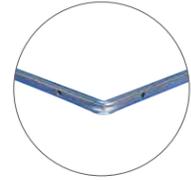
Equipment Features

- Low-E glass coating surface detection and wash.
- 3 pairs of soft nylon brushes.
- The distance between brushes is adjustable.
- 2 independent water tanks and water cycle.
- 2 stainless steel pump.
- Water adding automatically .
- High air press and low noise blower.
- Air knife degree adjustable.
- Stainless steel cover for whole washing drying section.
- Frequency speed control.
- Cold light inspection for output conveyor(optional).

Technical Parameter

Power	22.45kW
Voltage	380V/50Hz
Max glass size	2500 × 3000mm
Min glass size	200 × 540mm
Pane glass thickness	3~15mm
Glass washing speed	0~7m/min
Water electrical conductivity	≤50 μ S/cm
Overall dimension	9090 × 2300 × 3400mm

DFM-2020S Desiccant Filling Machine



Equipment Features

- PLC control, desiccant filling in closed condition, improve efficiency and IG service life .
- Aluminum spacer back side drilling, filling and automatic sealing.
- Suitable for bendable aluminum spacer and aluminum spacer with connector.
- Filling height adjustable according to the size of aluminum spacer.
- Special filing device with automatic desiccant feeding.

Technical Parameter

Work pressure	0.5 ~ 0.8MPa
Work power	220V
Filling speed	8-12S(1m × 1m ga)
Aluminum spacer Min	6.5mm × 5.5mm
Aluminum spacer Max	6.5mm × 23.5mm
Dimension	31000 × 820 × 2900mm
Weight	300kg

GUM-4 Glass Unloading Machine



SCM-02 Spacer Cutting Machine



SWT-2020 Rotating Table



MGF-40 Mixing Gun Freezer



FTM-01 Spacer Moving Machine



DFM-01 Desiccant Filling Machine



