

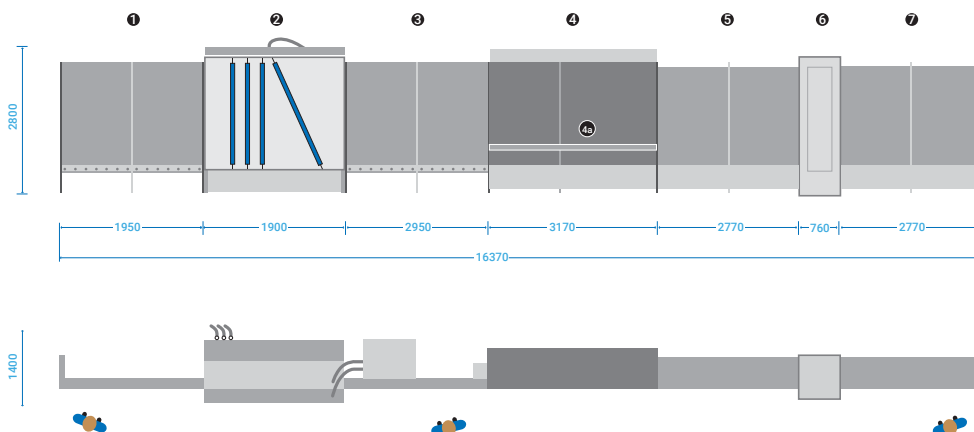
# Automatic Assembly Line

## SEALED UNIT PRODUCTION LINE



The Atlantic computerised line is designed to streamline production of insulated glass units. The line speeds up assembly times using a primary seal or self adhesive tape on the spacer bar and eliminates the need to touch the glass after washing. Standard units are produced with the line in automatic mode, shapes in semi-automatic, and wash only mode if the assembly line is not required.

ATLANTIC Wash and Assembly Line



### STAGES OF OPERATION

1. Inlet conveyor to washer
2. Atlantic six brush washer
3. Outfeed conveyor from washer
4. Automatic assembly station
  - 4a. Bridge
5. Press inlet conveyor
6. Vertical roller press
7. Press outlet conveyor

## SEQUENCE WITH LINE IN AUTOMATIC OPERATION

- a) Glass for IG unit fed through six brush washer (2)
- b) The first piece of glass stops at the end of the auto assembly station (4)
- c) The second piece of glass stops at the end of conveyor (3)
- d) The operator manually places the pre-butylated spacer frame onto the first piece of glass using horizontal and vertical references.
- e) The operator then pushes a button that calls for the second piece of glass. The assembly station drops back and the horizontal bridge (4a) drops down to support the second piece of glass as it is accelerated through to form a glass pair.
- f) The paired glass automatically leaves rack (4) to (5), leaving the assembly rack free for the next unit coming through.
- g) The paired glass is sensed and pressed in the vertical and leaves the press via conveyor (7)

### OPTIONS

- ▶ 1600mm or 2000mm heights
- ▶ Line without washer can be fitted to existing 4 & 6 brush machines if they have inverter drives driven outfeed racks.
- ▶ Short line which excludes sections 6 & 7 is available for spacer bar type users
- ▶ Larger rack sizes can be ordered to increase the maximum glass sizes
- ▶ Tilt tables and extra conveyors are available for the line.

### FEATURES

- ▶ The whole line is PLC computer controlled
- ▶ Roller press is also PLC controlled detecting the glass size prior to pressing, thus achieving a uniform seal
- ▶ Suitable for soft and hard coat applications
- ▶ Semi-automatic mode: The overhead bridge is not used and the second pane of glass is accompanied by hand for shaped units
- ▶ The washer can be used on its own if required
- ▶ Maximum glass size on the above line 2800mm
- ▶ Line requires 63 Amp 3 phase, compressed air, mains water.

The company pursues a policy of continual product development and improvement. These specifications may be subject to change, therefore, and shall not form part of any contract.

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