

Architectural ABTS™

Architectural Bending and Tempering System

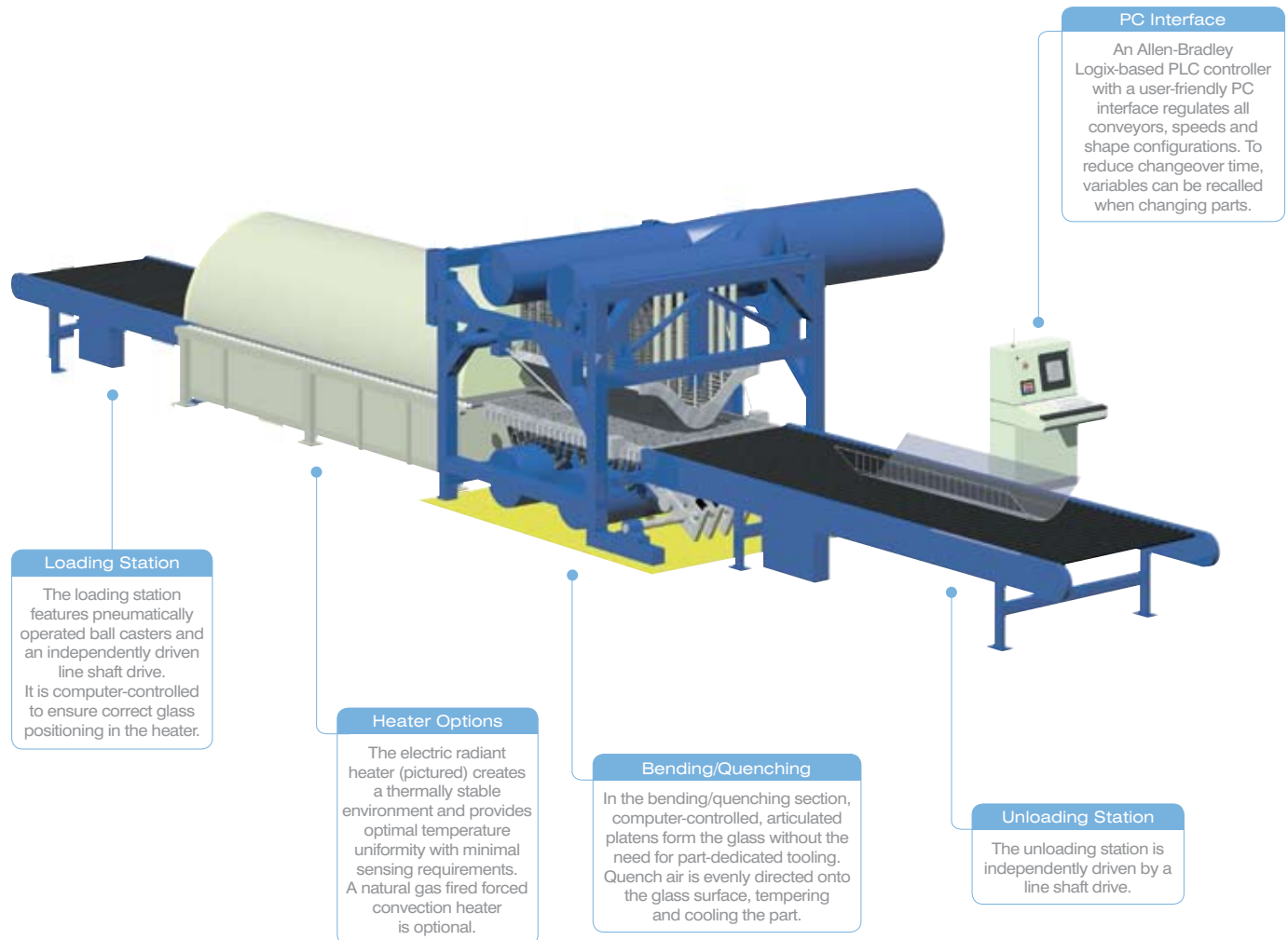
The most productive architectural bending and tempering system available for the architectural market today. Glasstech's ABTS processes a wide range of shapes without the need for part-dedicated tooling.

The system is able to produce the following shapes, all without using molds:

- Cylindrical bends
- Asymmetrical bends
- S bends
- J bends
- V bends

With the shape configurations controlled by a user-friendly Allen-Bradley Logix™-based PLC controller, Glasstech ABTS is probably the most productive, cost-effective and versatile bending and tempering system available for the architectural market.

ABTS is available with Glasstech's Electric Radiant Heater, which features outstanding uniformity for heating, or Glasstech's Forced Convection Heater, the most effective heating system available for all glass types.



Architectural ABTS™ Technical Features

Production Capability – Loads/Hour

| Glass Thickness | | Maximum Production Rate – Load/Hour | | 2140mm (84") Wide System | | | | 2440mm (96") Wide System | | | |
|-----------------|------|--------------------------------------|-------------------------------------|--------------------------|----------|----------------------|----------|--------------------------|----------|----------------------|----------|
| | | | | Maximum Load Area | | Maximum Single Piece | | Maximum Load Area | | Maximum Single Piece | |
| (mm) | (in) | Single Cycle 5.5m (18') Heater | Double Cycle 11m (36') Heater | (mm) | (in) | (mm) | (in) | (mm) | (in) | (mm) | (in) |
| 5.0 | 3/16 | 16 | 32 | 2140 x 3660 | 84 x 144 | 2140 x 3660 | 84 x 144 | 2440 x 3660 | 96 x 144 | 2440 x 3660 | 96 x 144 |
| 6.0 | 1/4 | 13 | 26 | 2140 x 3660 | 84 x 144 | 2140 x 3660 | 84 x 144 | 2440 x 3660 | 96 x 144 | 2440 x 3660 | 96 x 144 |
| 8.0 | 5/16 | 10 | 20 | 2140 x 3660 | 84 x 144 | 2140 x 3660 | 84 x 144 | 2440 x 3660 | 96 x 144 | 2440 x 3660 | 96 x 144 |
| 10.0 | 3/8 | 8 | 16 | 2140 x 3048 | 84 x 120 | 2140 x 3048 | 84 x 120 | 2440 x 3048 | 96 x 120 | 2440 x 3048 | 96 x 120 |
| 12.0 | 1/2 | 6 | 12 | 2140 x 3048 | 84 x 120 | 2140 x 3048 | 84 x 120 | 2440 x 3048 | 96 x 120 | 2440 x 3048 | 96 x 120 |




In actual operation, continuous production rates will be between 50% and 75% of the available load area and will depend on glass dimensions, edgework quality and load area utilization. Production rates for ceramic frit-coated panels will vary depending on part size, thickness and the specific type of frit used, the frit pattern and the consistency of the frit thickness.

Installed Electric Power




| System Width | | Heater Length | Heating | Quenching | Cooling | Drives | Total |
|--------------|------|---------------------------|---------|-----------|---------|--------|-------|
| (mm) | (in) | | (kW) | (kW)* | (kW) | (kW) | (kW) |
| 2140 | 84 | Single Cycle – 5.5m (18') | 800 | 150 | – | 22 | 972 |
| | | Double Cycle – 11m (36') | 1500 | 150 | – | 22 | 1672 |
| 2440 | 96 | Single Cycle – 5.5m (18') | 900 | 150 | – | 22 | 1072 |
| | | Double Cycle – 11m (36') | 1800 | 150 | – | 22 | 1972 |

* Quench power based on ANSI Z97.1-1984 capability for 6mm (1/4") thickness.

Bending Capability

| 2140mm (84") Wide System | |
|---|---|
| Examples – Minimum R: 1028mm (40.4"), Maximum R: Infinity (Flat Glass) | |
|  | 1028mm (40.4") Min R 254mm (10") Each Leg 2140mm (84") Dev Lg |
|  | 1028mm (40.4") Min R 2140mm (84") Dev Lg |
|  | 1372mm (54") Min R 2140mm (84") Dev Lg |

Bending Capability

| 2440mm (96") Wide System | |
|--|---|
| Examples – Minimum R: 1028mm (40.4"), Maximum R: Infinity (Flat Glass) | |
|  | 1028mm (40.4") Min R 400mm (15.7") Each Leg 2440mm (96") Dev Lg |
|  | 1028mm (40.4") Min R 2440mm (96") Dev Lg |
|  | 1560mm (61.4") Min R 2440mm (96") Dev Lg |

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