

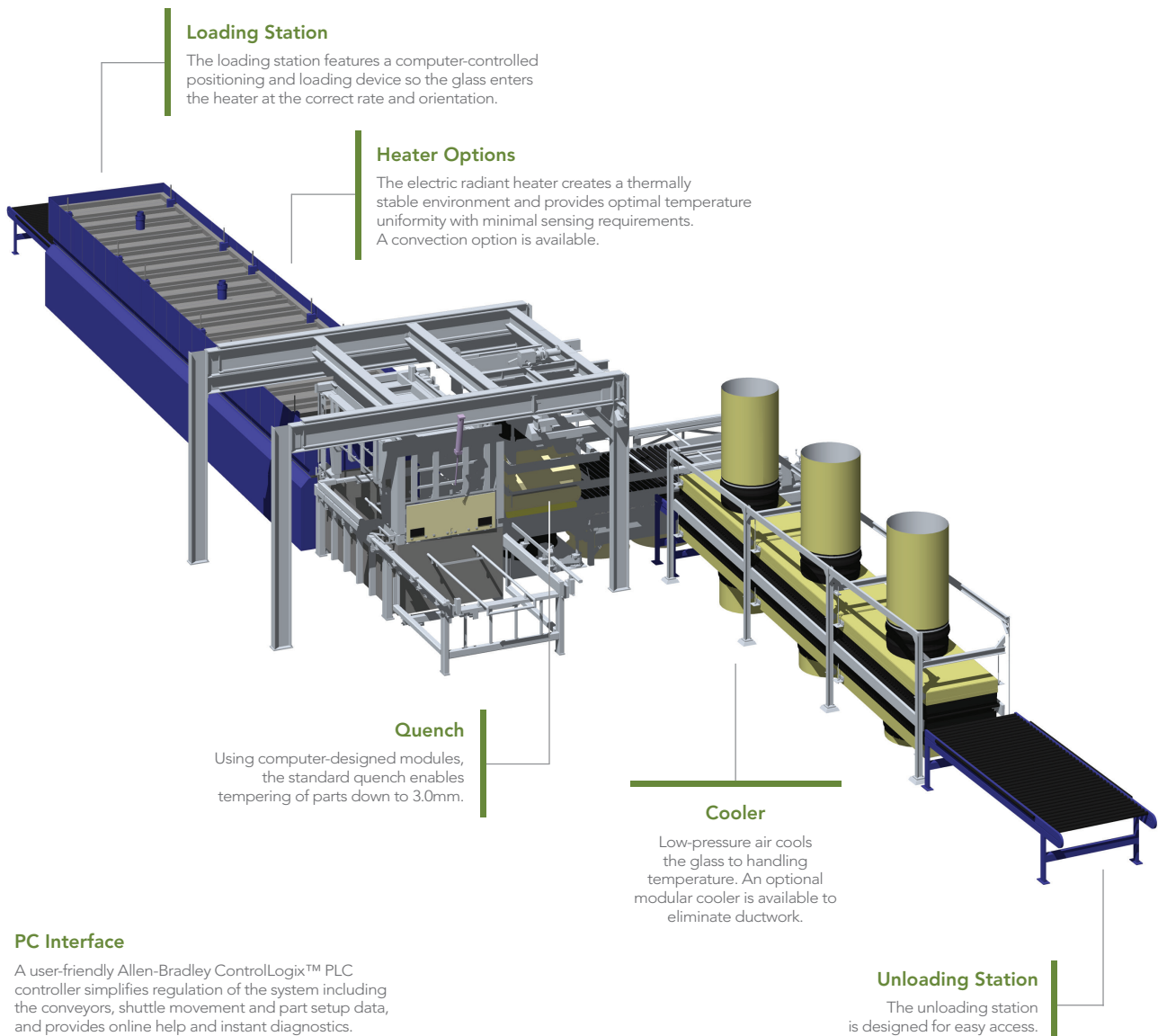
AUTOMOTIVE QS™

Quick Sag Advanced Bending and Tempering System

Glasstech's Advanced Bending and Tempering System for Quick Sag automotive glass produces high optical quality glass to precise tolerances in simpler shapes. Tooling is simple and uses only one forming ring. This results in lower costs and minimal downtime for part changeovers. Glass produced on this system has exceptional optical quality and uniformity of shape. Coated and tinted glass can be processed without difficulty. This system is highly flexible and can be configured in both single-side (as shown) and double-side exit models. Also, it can be combined with a cylindrical bender to produce a glass processing system capable of making both single-curvature and double-curvature parts.

General Specifications for Quick Sag

- Maximum depth of bend: 100mm (4")
- Minimum radius of curvature for 3.0mm (.118") glass: 1000mm (40")



QS™

AUTOMOTIVE QS™ TECHNICAL FEATURES

Glass thickness: Min. 3.0mm; Max. 6.0mm

Loading area: 1220mm x 1828mm (48" x 72") all thicknesses

Glass size and production rate based on typical size loads.

Production Capability					
Glass Thickness (mm)	Low Volume 4848* – 10"	Single-Sided 4872** – 10"	Double-Sided 48120*** – 10"	Maximum Area in Any Single Piece	
	Loads/Hour	Loads/Hour	Loads/Hour	(sq m)	(sq ft)
3.0 – 3.2	120	240	400	1.3	13.9
3.8 – 4.2	96	210	350	1.5	16.1
4.8 – 5.2	72	170	280	1.5	16.1
5.8 – 6.0	60	140	230	1.5	16.1

Minimum glass size: 380mm (15") in the direction of travel

Maximum depth and radius of bend (gravity sag)

- 100mm (4") Max. depth
- 1000mm (40") Min. radius of curvature
- 2540mm (100") Max. radius of curvature

Shape (gravity sag):

- Cylindrical

*4848 – 11m (36') heater plus 3.66m (12') bender

**4872 – 18.3m (60') heater plus 3.66m (12') bender

***48120 – 33m (108') heater plus 3.66m (12') bender

Floor Space Requirements								
Heater System	Total Length		Total Width		Total Height		Blower Room	
	(m)	(ft)	(m)	(ft)	(m)	(ft)	(m)	(ft)
Low Volume – QS 4848	30	100	12	39.4	7	23	20 x 11	65.6 x 36
Single-Sided – QS 4872	38	124.7	12	39.4	7	23	20 x 11	65.6 x 36
Double-Sided – QS 48120	53	174	17	55.8	7	23	20 x 11	65.6 x 36

Installed Electric Power							
Heater System	Heat- ing	Quenching† (kW)		Electrical		Drives	Total
	(kW)	Fan Power	Aftercooler	3-Phase (v)	4-Wire (Hz)	(kW)	(kW)
Quick Sag 4848*	1600	1200	75.0	380 – 600	50 – 60	22	2900
Quick Sag 4872**	2020	1200	112.5	380 – 600	50 – 60	22	3350
Quick Sag 48120***	3600	1312	225.0	380 – 600	50 – 60	22	5047

†Quench power based on ECE capability for 2.8mm thickness. Blow-up is powered by lower quench fan on single-sided.

*11m (36') heater plus 3.66m (12') bender

**18.3m (60') heater plus 3.66m (12') bender

***33m (108') heater plus 3.66m (12') bender

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