

EPB-S™

SOLAR EPB-S™

External Press Bender System

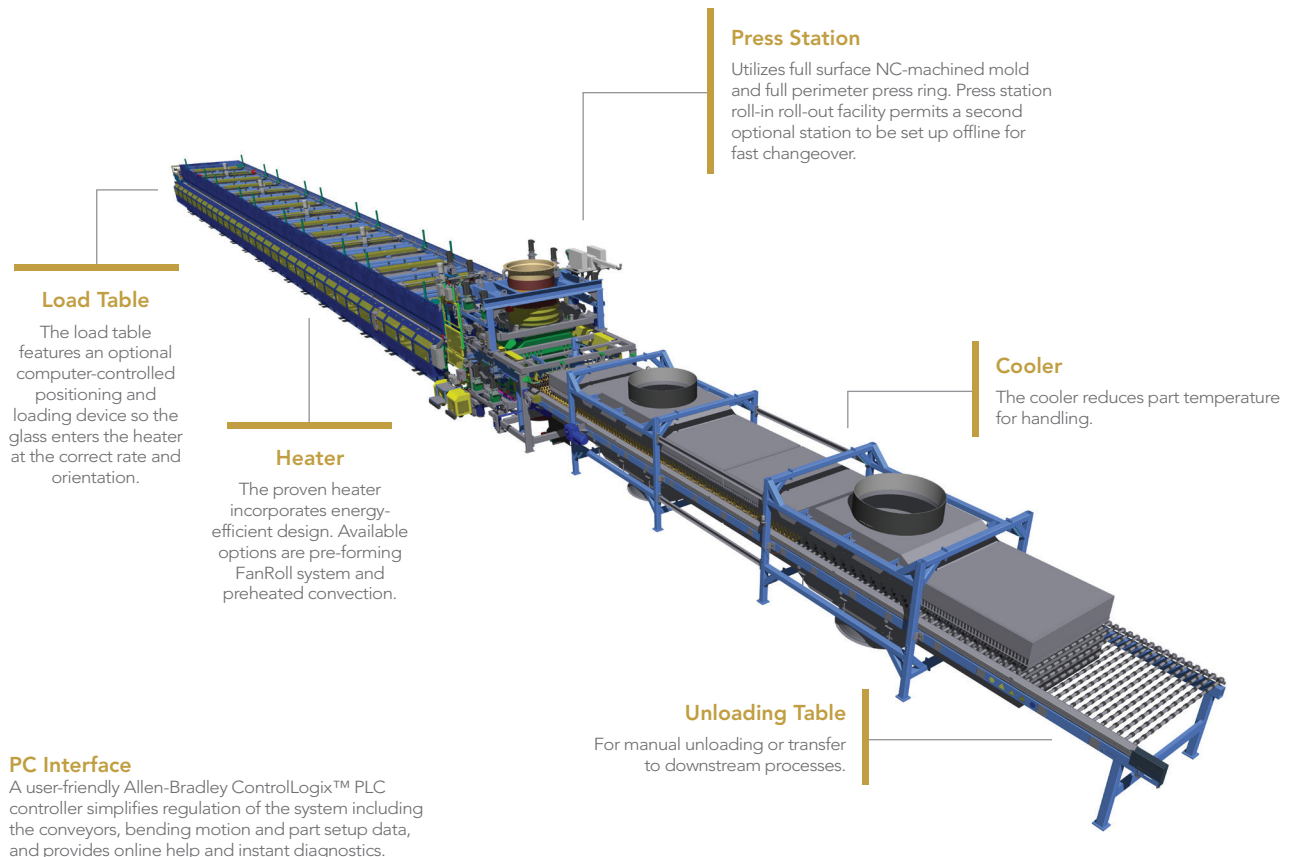
EPB-S is a bending and tempering/heat strengthening system for forming flat glass into parabolic or spherical shapes. The system produces precisely bent glass parts. It is ideal for concentration solar power (CSP) and concentration photovoltaics (CPV) applications.

Perfect for smaller part, high- or low-volume runs, the EPB-S system is specially designed to meet solar industry demand for high productivity and accurate perimeter and surface shape. In addition, the system is flexible enough to produce automotive glass. EPB-S is available in either a single stream (SS) configuration or dual stream (DS) for higher production.

The Glasstech EPB-S System

- Processes glass parts from 1.6mm – 5.0mm (.063" – 3/16") thickness
- Can produce up to 825 parts per hour, depending on glass thickness and load size
- Features a single forming tool-set to ensure high statistical repeatability
- Heats only the glass, not bending rings, for lower energy consumption
- Can process coated and low-iron glass without difficulty

Designed as an expandable system, the production capabilities of Glasstech's EPB-S can easily meet specific production needs. The system can be supplied initially for lower capacity. Then, as production requirements grow, it can be upgraded and expanded for greater throughput.



SOLAR EPB-S™ TECHNICAL FEATURES

Production Capability – Based on 1m Part*						
Product Size and Forming Capability						
	Example System Configurations		Glass Thickness			
	Heater Length		3.0mm	3.5mm	4.0mm	5.0mm
	(m)	(ft)	(sec)	(sec)	(sec)	(sec)
EPB-SS Low Capacity	21.3	70	11.9	13.2	15	17.5
EPB-SS High Capacity	39.6	130	8.75	9.1	9.4	9.7
EPB-DS Low Capacity	21	69	11.9	13.2	15	17.5
EPB-DS High Capacity	37.8	124	8.75	9.1	9.4	9.7

* Production rates for coated panels or different glass compositions will vary depending on part size, thickness and specific type of coating used, and the consistency of the coating.

Depth of Bend: Major Axis 84mm (3.3"), Minor Axis 31mm (1.22")

Minimum Radius of Curvature: Major Axis 1143mm (45"), Minor Axis 6000mm (20')

Floor Space Requirements										
	Heater Length		A Total Length		B Total Width		C Total Height		Blower Room Dimensions L x W x H	
	(m)	(ft)	(m)	(ft)	(m)	(ft)	(m)	(ft)	(m)	(ft)
EPB-SS Low Capacity	21.3	70	40.4	132.7	9	30	7	23	30 x 15.2 x 5	100 x 50 x 16.4
EPB-SS High Capacity	39.6	130	70.9	232.5	9	30	7	23	30 x 15.2 x 5	100 x 50 x 16.4
EPB-DS Low Capacity	21	69	44.4	145.6	11	36	7	23	60 x 30 x 5	197 x 100 x 16.4
EPB-DS High Capacity	37.8	124	69.6	228.4	11	36	7	23	60 x 30 x 5	197 x 100 x 16.4

Installed Electric Power					
	Heating (kW)	Quenching* (kW)	Cooling (kW)	Drives (kW)	Total (kW)
EPB-SS Low Capacity	1400	675	112	60	2247
EPB-SS High Capacity	3050	1100	225	60	4535
EPB-DS Low Capacity	2100	1185	225	90	3540
EPB-DS High Capacity	3720	1350	375	90	5535

* Quench power based on ECE capability for 2.8mm (.110") thickness.

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