

## Solar EPB-S™

### External Press Bender System

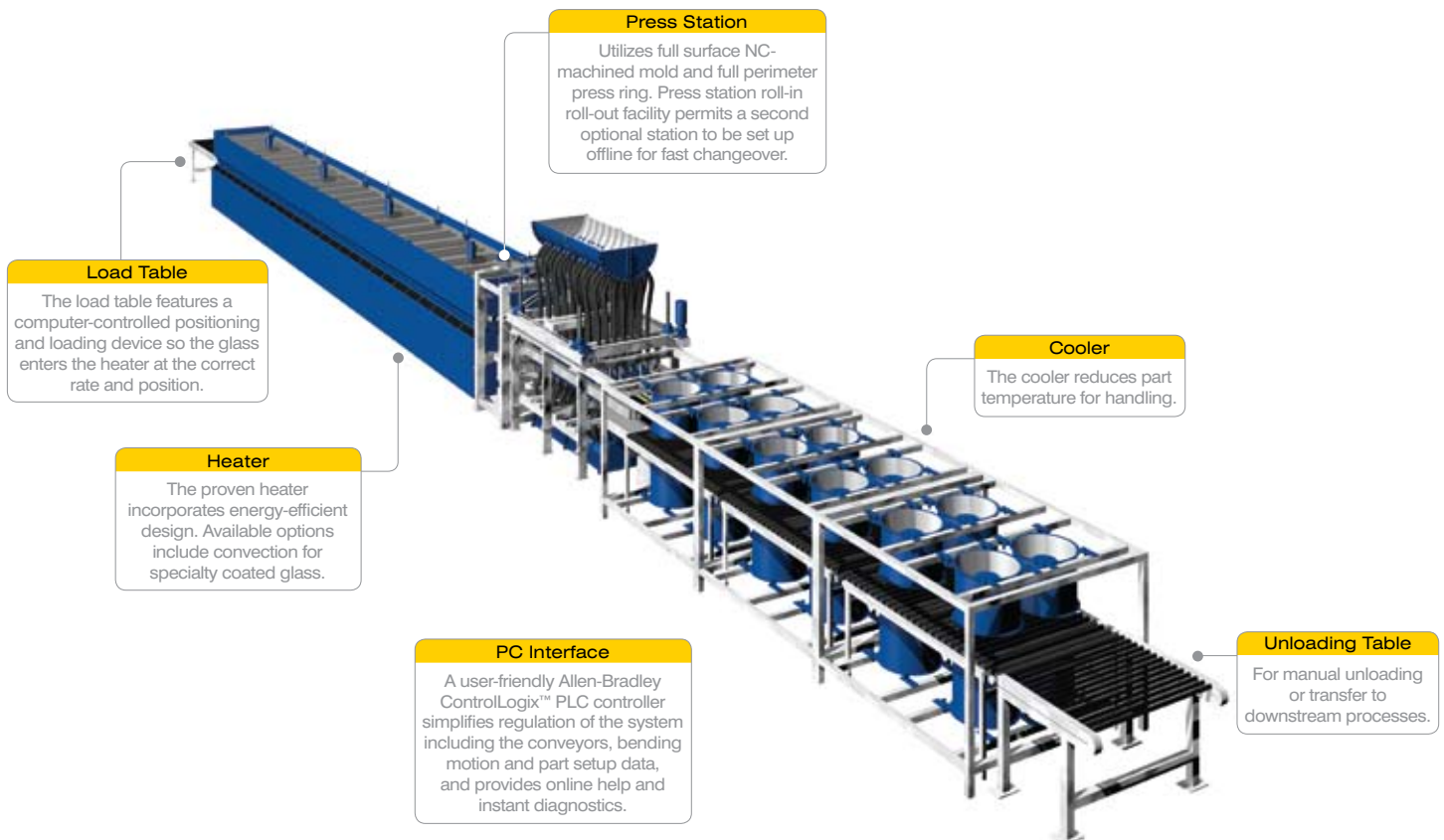
EPB-S is a bending and tempering/heat strengthening system for forming flat glass into parabolic or spherical shapes. The system produces precisely bent glass parts. It is ideal for concentration solar power (CSP) and concentration photovoltaics (CPV) applications.

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 900 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	43.9	144	9	30	7	23	30 x 15.2 x 5	100 x 50 x 16.4
EPB-SS High Capacity	39.6	130	73.2	240	9	30	7	23	30 x 15.2 x 5	100 x 50 x 16.4
EPB-DS Low Capacity	21	69	43.9	144	11	36	7	23	60 x 30 x 5	197 x 100 x 16.4
EPB-DS High Capacity	37.8	124	72	236	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	1325	27	40	2792
EPB-SS High Capacity	2740	1600	54	50	4179
EPB-DS Low Capacity	1740	2650	36	50	4506
EPB-DS High Capacity	3180	3100	72	60	6022

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

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