

EPB-T™

AUTOMOTIVE EPB-T™

External Press Bending System

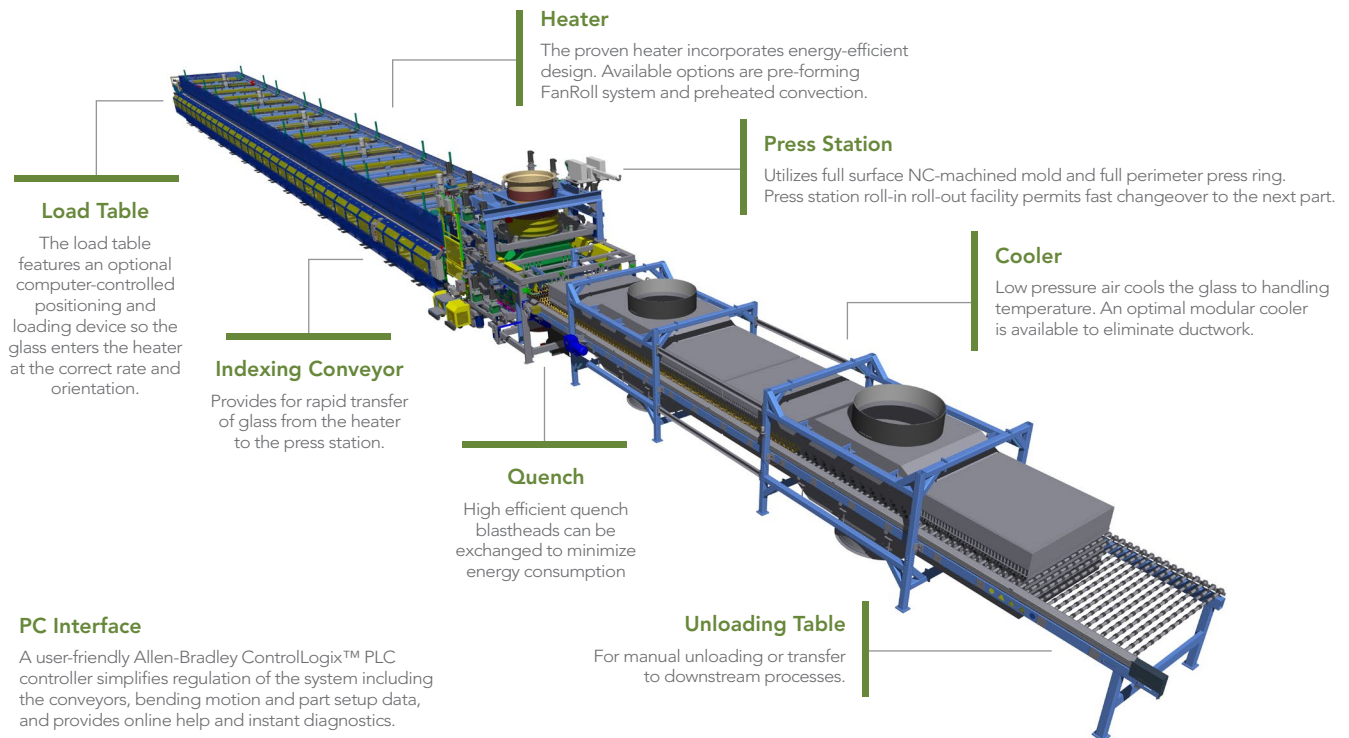
Glasstech's EPB-T system is an innovative, highly versatile glass bending system designed for the production of automotive doorlites, backlites and sunroofs. The system satisfies the automotive OEM demand for complex part shapes with superior optical quality, while also meeting the glass processor's need for greater productivity, economical tooling and energy conservation.

Designed as an expandable system, the production capabilities of the EPB-T can easily meet production needs. The system is available in three configurations, EPB-SS [single stream, 915mm (36") wide], EPB-DS [dual stream, 1828mm (72") wide] and EPB-XT [expanded capability, 2000mm (78") wide].

Production capabilities vary, with standard capacity, intermediate capacity and high capacity configurations available.

Production Capabilities

- Bent and tempered sidelites, sunroofs and backlites for automotive applications
- Bent and semi-tempered sidelites, sunroofs and backlites suitable for lamination
- Cylindrical, compound and complex-shaped tempered or semi-tempered parts
- Glasstech's EPB-T system meets the shape tolerance and optical quality requirements of Audi/Volkswagen, BMW, Honda, Toyota, Nissan, Mercedes and others



AUTOMOTIVE EPB-T™ TECHNICAL FEATURES

Product Size and Forming Capability EPB-SS, EPB-T and EPB-XT

	Glass Thickness	Size				Depth of Bend		Minimum Radius of Curvature	
		Minimum Glass Size Length x Width		Maximum Glass Size Length x Width					
		(mm)	(mm)	(in)	(mm)	(in)	(mm)	(in)	(mm)
EPB-SS Standard System	1.6 – 4.85	254 x 228	10 x 9	1220 x 864	48 x 34	100	3.9	1143	45
EPB-T Sidelite Mode	1.6 – 4.85	381 x 406	15 x 16	1220 x 864	48 x 34	100	3.9	1143	45
EPB-T	1.6 – 4.85	890 x 500	35 x 20	1220 x 1828	48 x 72	112	4.4	600*	23.6*
EPB-XT	1.6 – 4.85	890 x 500	35 x 20	1600 x 2000	63 x 78	112	4.4	600*	23.6*

*Requires optional fan roller

Example System Configurations

	Heater Length		Glass Thickness				
			1.6 - 3.0mm**	3.2mm	3.5mm	3.8mm	4.8mm
	(m)	(ft)	(sec)*	(sec)*	(sec)*	(sec)*	(sec)*
EPB-SS Standard Capacity	21	70	10	10	10.5	12	14
EPB-SS High Capacity	33.5	110	7.3	7.3	7.5	8.6	10
EPB-T Standard Capacity	21	68.9	12.5	12.5	13.8	15.2	19.3
EPB-T Intermediate Capacity	26.4	86.7	12	12	13	14.5	17
EPB-T High Capacity Sidelite	33.6	110.7	7.5	7.5	7.5	8.6	10
EPB-T High Capacity	33.6	110.7	12	12	13	14.5	17
EPB-XT Standard	21	68.9	12.6	12.6	14	15.5	19.6
EPB-XT Intermediate Capacity	26.4	86.7	12.5	12.5	13.5	15	17.5
EPB-XT High Capacity	33.6	110.7	12.5	12.5	13.5	15	17.5

*1m (39.3") tall part size, taller parts have extended cycle time

**Heat strengthened stress level

Installed Electric Power kW

	Heating	Quench Fans***	Cooling Fans	Drives	Total
	(kW)	(kW)	(kW)	(kW)	(kW)
	EPB-SS Standard Capacity	1390	600	112	60
EPB-SS High Capacity	2400	1007	187	60	3654
EPB-T Standard Capacity	2200	1275	224	60	3759
EPB-T Intermediate Capacity	2690	1275	224	60	4249
EPB-T High Capacity Sidelite	3350	1500	298	60	5208
EPB-T High Capacity	3350	1275	298	60	4983
EPB-XT Standard	2660	1712	261	65	4698
EPB-XT Intermediate Capacity	3230	1712	261	65	5268
EPB-XT High Capacity	4000	1712	336	65	6113

***Quench power based on ECE capability for 3.2mm thickness

Floor Space Requirements

	Heater Length		Total Length		Total Width 1 Press		Total Width 2 Presses		Height*	
	(m)	(ft)	(m)	(ft)	(m)	(ft)	(m)	(ft)	(m)	(ft)
	EPB-SS Standard Capacity	21.3	70	38.6	126.8	9.9	32.4	13.7	44.9	6.4
EPB-SS High Capacity	33.5	110	61.5	207.3	9.9	32.4	13.7	44.9	6.4	21
EPB-T Standard Capacity	21	68.9	43.1	141.5	14.2	46.6	18	59	6.4	21
EPB-T Intermediate Capacity	26.4	86.7	51.7	169.5	14.2	46.6	18	59	6.4	21
EPB-T High Capacity Sidelite	33.6	110.7	60.7	199	14.2	46.6	18	59	6.4	21
EPB-T High Capacity	33.6	110.7	59	193.5	14.2	46.6	18	59	6.4	21
EPB-XT Standard	21	68.9	45.9	150.7	15.8	51.7	20.1	66	6.7	22
EPB-XT Intermediate Capacity	26.4	86.7	54.5	178.7	15.8	51.7	20.1	66	6.7	22
EPB-XT High Capacity	33.6	110.7	61.8	202.7	15.8	51.7	20.1	66	6.7	22

*Plus quench ductwork

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