

Year	Customer	Production line	Control System	Country	System
1992	Glaswerk Achern (O-I)	Furnace 4 control blocks into existing control system	AS235 + OS525	Germany	Oxygen sensors, Lambda Control, DeNOx Oil burners 700 mg NOx
1993	Glaswerk Budenheim	Control system furnace 3	Teleperm M AS215	Germany	Lambda Control, Air curtain, DeNOx Oil burners 700 mg Nox
1994	Gerresheimer Glas	Control system furnace 1 includ. Feeder control	AS235 + OS525	Germany	Lambda Control, Air curtain, DeNOx Oil burners 550 mg Nox
1996	Anker Glas Bernsdorf (O-I)	Control system furnace 1, includ. 2 Feeder, Electric Power Control	SIMATIC S5 + Coros LSB	Germany	O2 sensors, Lambda Control, BTR Furnace Temp. Control, OMC , Energy Control
1997	VGF Maastricht (O-I)	Control blocks in M1, M2 into existing control system	Teleperm M AS235	Netherlands	Oxygen sensors, Lambda Control, BTR Furnace Temperature Control
1997	EMGO Lommel	Implementation into existing system	Eurotherm	Belgium	Oxygen Sensors, Lambda Control, DeNOx Oil burners
1998	Saint Gobain Gultiber Gliwice	Control system 6 Fiberiser glasswool line	SIEMENS PCS7 (V4.02)	Poland	Control system includ. RAUTE batch, 14 AS, 2 Servers, 9 Operator stations
1999	EMGO Lommel	Batch House Control System replacing old Philips system	SIMATIC S7 + WinCC	Belgium	Batch House Control system
2000	Glaswerk Drebkau (Ardagh)	Implement control blocks in existing control system	SIMATIC S5 + Coros LSB	Germany	Oxygen sensors, Lambda Control, DeNOx Oil burners 700 mg NOx
2000	VGF Schiedam (O-I)	Control blocks in S1, S2 into existing control system	SIEMENS PCS7 (V5.1)	Netherlands	Oxygen sensors, Lambda Control, BTR Furnace Temperature Control
2002	Noelle & von Campe Boffzen	Control system furnace 3 and Feeder	Migration AS488, WinCC	Germany	Furnace Control, BTR Furnace Temperature Control
2003	Glaswerk Ernstthal	Control system furnace 2 and Feeder	SIEMENS PCS7 (V5.2)	Germany	Furnace Control, O2 sensors, BTR Furnace Temperature Control
2003	Saint Gobain Isover Russia L1	Control system 8 Fiberiser glasswool line	SIEMENS PCS7 (V5.2)	Russia	Control system includ. RAUTE batch 14 AS, 2 Servers, 9 Operator stations
2004	Saint Gobain Isover Russia L2	Control system 6 Fiberiser glasswool line	SIEMENS PCS7 (V6.0)	Russia	Control system includ. RAUTE batch 8 AS, 2 Servers, 9 Operator stations
2004	Noelle & von Campe Boffzen	Control system furnace 1 and Feeder	Migration AS488, WinCC	Germany	Furnace + Lambda Control, BTR Furnace Temperature Control
2005	Vetropack Kremsmünster	Control system furnace 32 and Feeders 321- 322	SIEMENS PCS7 (V5.2)	Austria	Furnace + Lambda Control, BTR Furnace Temperature Control
2005	GW Ernstthal	Control system furnace 1 and Feeder	SIEMENS PCS7 (V6.0)	Germany	Furnace Control, O2 sensors, BTR Furnace Temperature Control
2006	Vetropack St.Prex	Control system W21+Batch, Feeders 211-215	SIEMENS PCS7 (V6.1)	Switzerland	Batch House, Furnace Control, Lambda+BTR Temp.Control

Year	Customer	Production line	Control System	Country	System
2007	Saint Gobain Isover Russia L2B	Extension of Control system, 6 Fiberisers additional	SIEMENS PCS7 (V6.0)	Russia	Extension of Control system, 4 additional AS
2007	Vetropack Kremsmünster	Control system furnace 33 and Feeders 331-333	SIEMENS PCS7 (V6.1)	Austria	Furnace + Lambda Control, BTR Furnace Temperature Control
2006	Allied Glass Leeds	Control system Furnace 1 and Feeders 11-14	SIEMENS PCS7 (V6.1)	UK	Furnace Control, OMC, DeNOx Gas burners, Lambda+BTR Furnace Temp. Control
2007	Vetropack Gostomel	Control system furnace 83 and Feeder	SIEMENS PCS7 (V6.1)	Ukraine	Furnace + Lambda Control, BTR Furnace Temperature Control
2008	GW Ernstthal	Control system furnace 3 and Feeder	SIEMENS PCS7 (V6)	Germany	Furnace Control, O2 sensors, BTR Furnace Temperature Control
2008	PQ Potters Wurzen	Control system furnace 2	SIEMENS PCS7 (V7.0)	Germany	Furnace Control, O2 sensors, CV Meter
2008	PQ Potters Wurzen	Control system furnace 3	SIEMENS PCS7 (V7.0)	Germany	Furnace Control, O2 sensors, CV Meter
2009	Saint Gobain OBL Essen	Control system furnace 3 and Feeder	SIEMENS PCS7 (V7.0)	Germany	Furnace + Lambda Control, BTR Furnace Temperature Control
2009	Saint Gobain OBL Essen	Air Curtain Control system furnace 1	SIEMENS PCS7 (V7.0)	Germany	Air Curtain and Lambda Control, O2 sensors
2009	BA Vidros Villa Franca	Control system furnace	SIEMENS PCS7 (V7.0)	Spain	Furnace + Lambda Control, O2 sensors, DeNOx Gas burners
2009	Ocean Glass	Control system furnace B and Feeder / Batch House	SIEMENS PCS7 (V7.0)	Thailand	Furnace + Lambda Control, O2 sensors, CV meter
2009	Allied Glass Leeds	Control system Furnace 2 and Feeder	SIEMENS PCS7 (V7.0)	UK	Furnace + Lambda Control, BTR Furnace Temperature Control
2010	PQ Potters Wurzen	Control system furnace 1 (common syst. w. F2&t3)	SIEMENS PCS7 (V7.0)	Germany	Furnace Control, O2 sensors, CV Meter
2010	O-I Bernsdorf	Control system furnace 1 and Feeder integration	SIEMENS PCS7 (V7.1)	Germany	Furnace + Lambda Control, O2 sensors integration Feeder (S5)
2011 (in progress)	HNG Bahadurgarh	Plantwide control system furnaces #3/4/5	SIEMENS PCS7 (V7.1)	India	Furnace + Lambda Control, O2 sensors, Dual Oil/Gas burners (FlammaTec)
2011 (in progress)	HNG Rishra	Control system furnace #1 and Feeder integration	SIEMENS PCS7 (V7.1)	India	Furnace + Lambda Control, O2 sensors, DeNOx Oil burners