

Solutions for Technology in Glass

Industrial Automation and Process Control Systems

Solution
Partner

Automation

SIEMENS



Scope of supply and services

- Planning of optimal control system design
- Engineering
 - Hardware (Cabinets planning, Field planning, disposition of components)
 - Software (DCS, CPU, Visualization)
- Control cabinets assembling
 - Control panels CPU / Network / Fibre optics
 - Cabinets frequency converters
 - Uninterrupted Power Supply (UPS)
- Detailed signal tests and FAT
 - Installation
 - Commissioning
 - Process optimization
 - Documentation and Training

Installation

- Disposition, delivery and installation of field devices (Pressure, Temperature, Volume...)
- Disposition, delivery and installation of Frequency converters
- Delivery and installation of cable trays
- Control room furniture (e.g. Desks, Video walls, Networks, Server cabinets)
- Bus systems (DP, PA, redundant, fibre-optic, copper)
- Disposition, delivery and termination of fibre optics systems

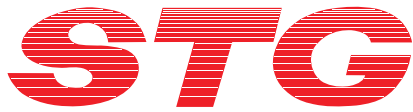
Applications

- SIEMENS PCS7
- SIMATIC S7/S5
- TIA Portal
- Allen-Bradley (Rockwell)
- WinCC / WinTM
- Energy Management System (EMS)
- Intellution iFix
- ePLAN

Certificates

- SIEMENS Solution Partner "Process Control System SIMATIC PCS 7"
- SIEMENS Certified Specialist "Process Control System SIMATIC PCS 7"
- SIEMENS Certified Industry "Glass"

For all typical furnace designs within the Glass Industry STG offers it's products and performances for Furnace, Forehearth, Float Bath, Annealing Lehr areas – both available as standalone or complete packages.



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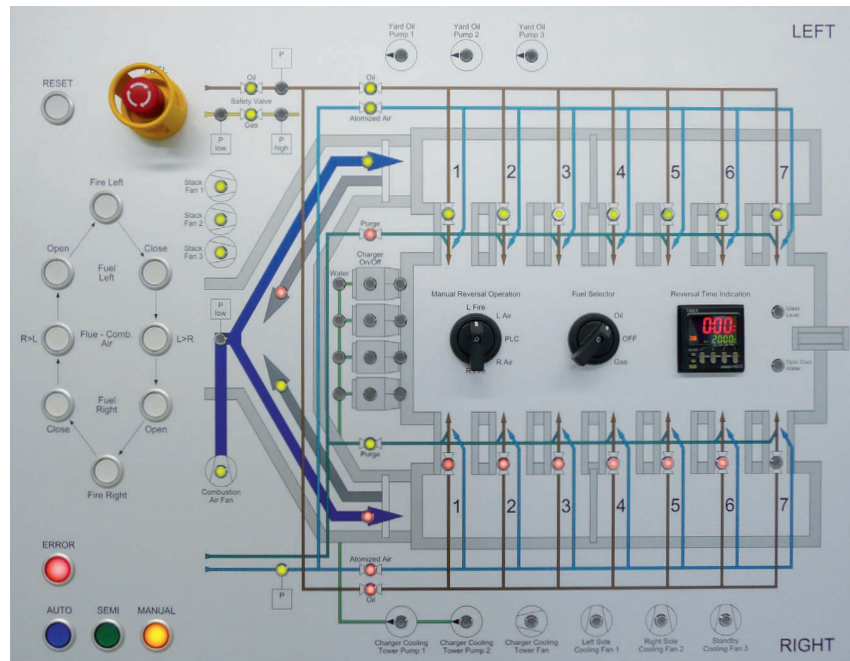


Extensive STG Software Library

- BTR Furnace Temperature Control
- Flexible Energy Control
- Energy based Lambda Control
- Solutions for redundant system design
- Long term data bases
- Energy Management System
- Special program module for fine tuning of reversal sequence
- Further specialized and industry proven control loops

STG Extras for glass melting furnaces

- PLC integrated model based function blocks for energy optimisation and a proactive operational mode
- PLC integrated Lambda Control based on Oxygen Sensors, also for Dual (Gas /Oil) and OxyFuel firing
- PLC integrated combustion calculation
- BTR Furnace Temperature Control
- Automatical symmetry control of furnace heating
- Recipe management for feeder and top roll machines
- Best available system safety due to
 - Offline tests in Cottbus with STG and customer staff
 - Optimized and custom-fit system architectures, e.g.:
 - Redundant PLC
 - Single PLC with bumpless Backup
 - Distributed redundancy



Reversal mimic