

Solutions for Technology in Glass

STG Control for Toprollers / Stirrer / Tweel



Toproller camera picture

GENERAL SCOPE OF SUPPLY

- Engineering / Documentation
- Hardware (Cabinets, PLC, Drives, Motors, Encoders)
- HMI (Full visualization on PC and / or local Touch Panels)
- Software (Standalone system or part of STG Hot End Control)
- Network (Fibre optics / Bus / Ethernet, Motor cable...)
- Tests / Installation Supervisor / Commissioning

TOPROLLER CONTROL

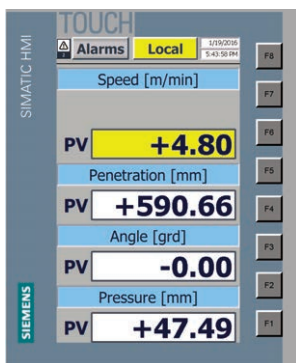
STG provides all the Hardware and Software for Toprollers control, enabling a reliable glass ribbon floating on Tin Bath.

Main functions

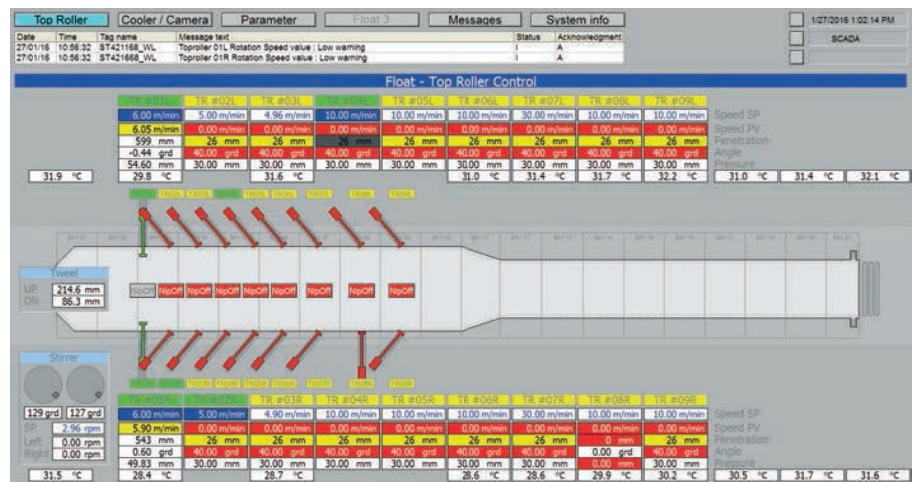
- Spread analysis
- Speed control
- Toprollers penetration in / out control
- Angle upstream / downstream control
- Pressure up / down control
- Vertical up / down control

Optional

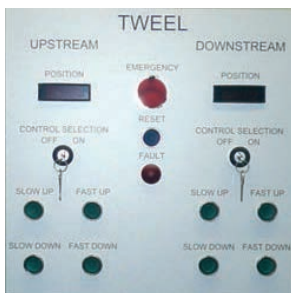
- Camera Control
- Tin Cooler Control
- Pusher/Fence/Safety Barrier Control
- Drossbox Control



Toproller operation on local HMI



WinCC Main Screen Toprollers



Tweel control panel

WHY STG?

- 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
- Full Hot End Control (Batch / Furnace / Bath / Lehr areas) incl. Engineering / Hardware / Software / Test / Commissioning from one partner

STIRRER CONTROL

STG provides all the Hardware and Software for Stirrer control, allowing to homogenize the glass before it gets into the refining area.

Main functions

- Motor control for speed variation of stirrer machines
- Synchronisation of stirrer machines

TWEEL CONTROL

STG provides all the Hardware and Software for Tweel control, in order to spread the molten glass into the Tin Bath area.

Main functions

- Command the movement of lift up and lift down for upstream and downstream tweel support beams

SYSTEM PLATFORMS

- SIMATIC PCS7 / S7 (TIA Portal)
- Allen-Bradley (Rockwell)

