

Turkish glass manufacturer SISECAM uses SIMATIC PCS 7



Customer Info

Customer

Trakya Cam Sanayii

Business Group

SISECAM

Country

Turkey

Location

Mersin

Industrial Sector

Float glass

Project:

TR4 float glass line



January 2000: The new TR4 float glass line near Mersin in southeast Turkey was put into operation by SISECAM, using Siemens products, systems and turnkey service in the entire process chain from the raw material stores to heating zone to cutting line. Siemens received a turnkey order from Trakya Cam Sanayii A.S. for providing the entire electrical and automation equipment for a new 500 tons a day float glass line. Trakya Cam is a subsidiary of SISECAM, one of the largest glass manufacturers in Europe. Their float glass line TR3 has been in operation since 1996 and was completely equipped with Siemens technology. After TR3 Trakya Cam built a second float glass line, TR4, in Mersin. Due to the outstanding quality of Siemens components and both the intensive and successful cooperation with the Siemens Glass Team, Trakya Cam also decided that the TR4 line should be realized with Siemens.

Due to the successful cooperation with Trakya Cam and the suppliers of mechanical equipment, it was possible to develop a seamless and homogeneous automation solution based on the Siemens **Totally Integrated Automation (TIA)** concept.

All zones in the float glass line such as the batch house, the warm area, the cutting line and auxiliary plant sections are automated with **SIMATIC PCS 7** and SIMATIC S7.



Result of this homogeneous design:

- Central operating and monitoring systems with plantwide information flow,
- United engineering,
- Little training required,
- Minimum Spare parts
- Simple maintenance
- Security of running a system that is future-proof and open.

Siemens supplied the complete power engineering for the TR4 in addition to the automation system. SIMKO Istanbul, the Siemens agent in Turkey completed the project planning, assembled and installed all medium-voltage and low-voltage systems including the Siemens Series 8PU standard MCC. An optimum solution was implemented for the float bath roof heating. Thyristor units with onboard optimization and synchronization functions ensure effective energy and temperature control in the float bath zones. These thyristor controllers also have a Profibus connection and can be incorporated simply into the homogeneous automation level. Top quality measuring technology in the warm zone is an important requirement for good glass quality. Siemens supplied the complete range of field instrumentation from the thermocouple to the pressure transmitter, everything from a single source. Gas analysis systems from Siemens ensure an optimum atmosphere for the tin bath. The TR4 plant in Mersin was completed in January 2000. Since then float glass production has been in full operation.

Siemens turnkey solution:

SIMATIC PCS7 process control system, drives, field instrumentation, medium voltage, low voltage, roof heating, emergency power, MCC, UPS, building automation, control room; Project planning, installation, commissioning

Factors for choosing Siemens

- Outstanding quality
- Good experience in the previous project
- Turnkey solution

More information: www.siemens.com/glass-industry

