

# Solutions for float glass

## SIMATIC automation projects at several Guardian sites

### Siemens Solution

- SIMATIC S7 controllers
- PROFIBUS DP

### Sector Expertise

- International expertise
- Project management
- Cooperation with technology partner

# simatic

# S7

# SIEMENS

Guardian was looking for a new approach in process automation technology to increase reliability and productivity in several production plants. Starting with a project in Goole in the UK, Siemens implemented a sustainable, innovative automation solution for Guardian based on SIMATIC technology in close cooperation with the glass technology expert STG Cottbus. The solution has become a standard at Guardian and has been implemented at several other sites in Europe and Saudi Arabia as well.

# SIMATIC automation projects at several Guardian sites

As a rule, the glass industry relies on solutions that have proven themselves over decades. However, in cooperation with the glass technology specialist STG Cottbus GmbH from Cottbus, Siemens has been able to introduce a range of innovations offering clear benefits in process control, which have since become accepted as the new industry standard. The trigger for this change was a range of projects undertaken for Guardian in the UK, Poland, Spain, Luxembourg, Saudi Arabia, Germany and Hungary. Siemens implemented a new control concept in these applications.

One of these projects was the Guardian glass plant at Goole in the UK. With a capacity of more than 600 tons per day, the plant produces all strengths of glass for the British construction industry. The project included the automation of the entire process from the hot to the cold end. Not only did Siemens supply and install the entire process control system for this project, but also all the sensor technology, as well as the exhaust gas analysis system. The expertise of Siemens' longterm partner STG was very beneficial, particularly with regards to the melting end and cooling channel. The results were impressive: The plant delivered perfect quality product – from the very first day of production.

The most recent project is the Guardian production line for float glass in Oroshaza, Hungary. This project involved the realization of the control technology for the melting furnace and cooling channel. Work began in July 2004. This project was also carried out with STG and utilizes SIMATIC S7-400 technology with comprehensive networking via PROFIBUS DP in an approach very similar to the innovative strategy already implemented at Goole in the UK. All participants are confident that this project will continue the series of successful projects for Guardian and Siemens.



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