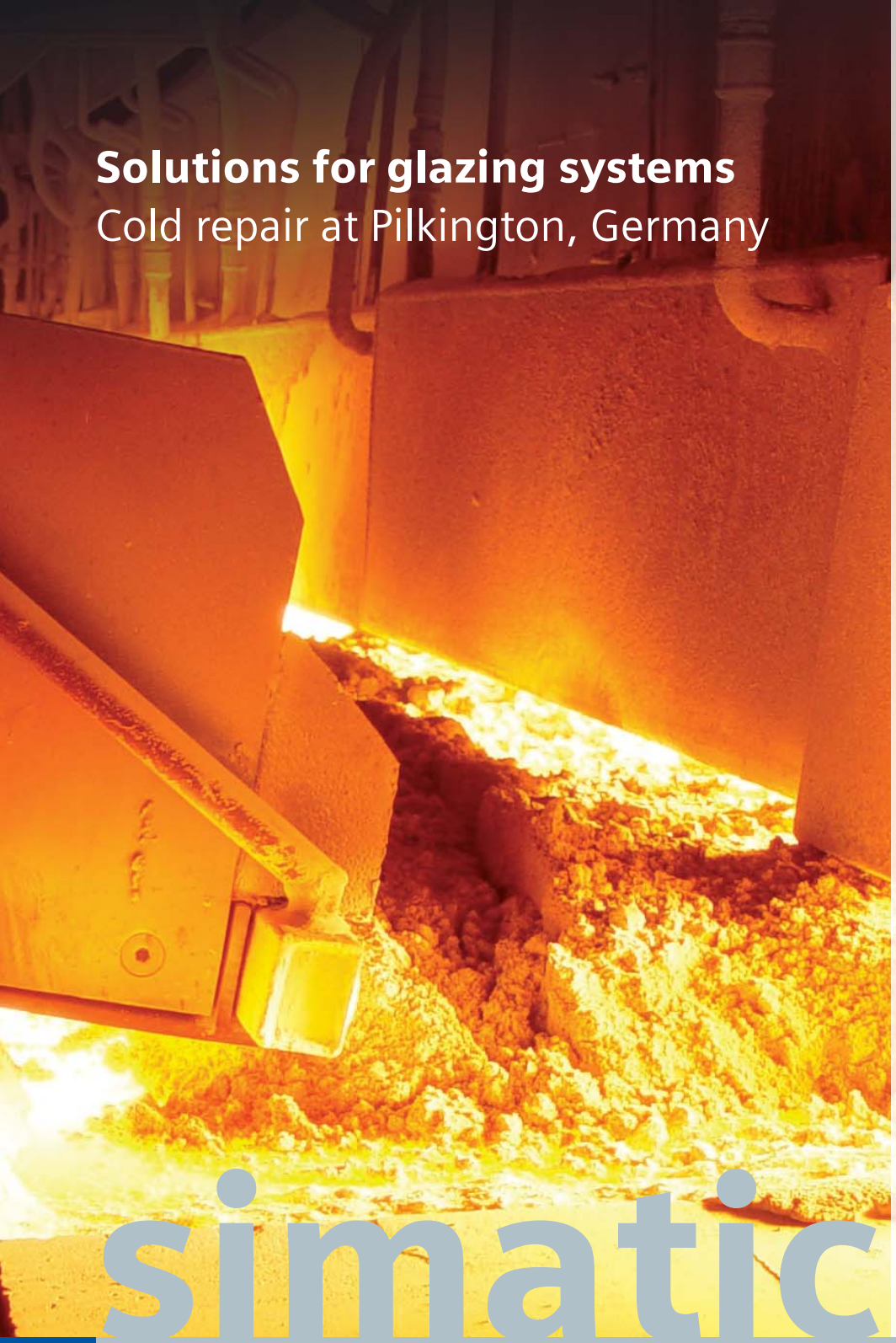
Application

Solutions for glazing systems
Cold repair at Pilkington, Germany



Siemens Solution

- Totally Integrated Automation (TIA)
- SIMATIC PCS 7 process control system
- SIPART controllers
- SIWAREX weighing systems
- SITRANS P pressure transmitters
- SITRANS FR flow meters
- SIMOVERT Masterdrives

Sector Expertise

- International account management
- Modern solution by integrated actors and sensors

simatic PCS 7

In order to be able to meet future market challenges, Pilkington Bauglasindustrie in Schmelz, Germany, decided to retrofit their automation system for melting furnace, shaping unit, and utilities such as the compressor station and hydro-station. Siemens was responsible for the implementation of SIMATIC PCS 7 in these units during a scheduled cold repair.

SIEMENS

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Cold repair at Pilkington Bauglasindustrie in Germany

Architects have long known Pilkington Profilit™ as a product to be used for glass facades. Now, however, demand for the glass is increasing as its role expands to include more decorative functions. The Profilit™ system consists of self-supporting glass channels that are manufactured at Pilkington's building glass plant in Schmelz, Germany, using a specially developed mechanical rolling process.

As part of a recent cold repair, Pilkington subjected the entire production site to a comprehensive refit before refiring the new melting furnace in April 2004 and continuing with the production of glass elements.

According to production manager Christoph Claesges, the technical upgrade of the plant has enabled profiled glass production to take a step into the 21st century, adapting Pilkington Profilit™ to future market requirements. A new control system for the melting furnace, shaping unit, and utilities such as the compressor station and hydrostation were a key part of the upgrade. Pilkington decided to work with Siemens on the implementation of the project and chose the SIMATIC PCS 7 process control system.

The fully redundant system permits the uniform control and monitoring of the entire production process from one control room. It is accommodated in four standard cabinets and is expanded by process instruments such as SIPART controllers, SIWAREX weighing systems, SITRANS P pressure transmitters, SITRANS FR flow meters, and SIMOVERT Masterdrives.

Siemens was responsible for the implementation of the entire project, including the development of the circuit diagrams, the cabling, the software configuration and parameterization, and the commissioning of the entire system. SIMOVERT Masterdrives VC control the transport of the raw glass within the shaping machine and in the annealing lehr. Their functions are also integrated into the SIMATIC PCS 7 interfaces.

Pilkington was very satisfied with the experienced project management provided by the Siemens team and was able to start operations on time with no problems. From a technological viewpoint, the company has now set a course for the successful manufacture of its unique product, which began life as purely industrial but which is now well on its way to to become a creative design element in modern architecture.

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