Solutions for float glass

Cold repair of two float lines at Saint-Gobain in Germany

Application

Siemens Solution

- Totally Integrated Automation (TIA)
- SIMATIC PCS 7 process control system
- PROFIBUS DP
- PROFIBUS PA
- SIMOVERT Masterdrives
- Process instrumentation

Sector Expertise

- Account management
- Project management
- Design and system standardization
- Glass know-how

simatic PCS 7

In 2002 and 2003, two float lines at Saint-Gobain Germany have been modernized by Siemens with the SIMATIC PCS 7 process control system during scheduled cold repairs. Saint-Gobain placed great emphasis on a modern control concept with high availability, which also provides a platform for future expansion. Both production sites benefit from the high level of integration the new solution offers.

SIEMENS

www.siemens.com/glass

Cold repair of two float lines at Saint-Gobain Germany

The cold repair in the float plant at the Saint-Gobain factory in Stolberg, Germany was carried out in the first half of 2002. With the conversion of a standard float line into an extra-wide float line, the plant in Stolberg has become one of the most modern in the world. It is the fourth line at the Saint-Gobain site in Stolberg and produces float glass destined mainly for the automotive industry.

The cold repair of the float glass plant at the Cologne-Porz factory was performed in the second half of 2003. Increasing the volume of the glass-melting end has made the line in Cologne-Porz one of the largest float glass plants in the world.

The melting furnace in Stolberg was officially refired on May 21, 2002, and in Cologne-Porz the melting furnace officially began operation on October 21, 2003. Saint-Gobain Germany also took the opportunity of the cold repair to bring the electrical equipment up to date at both sites. In modernizing the control system, the company pursued clear goals. Great emphasis was placed on a modern control concept with high availability, which also provides a platform for future expansion.

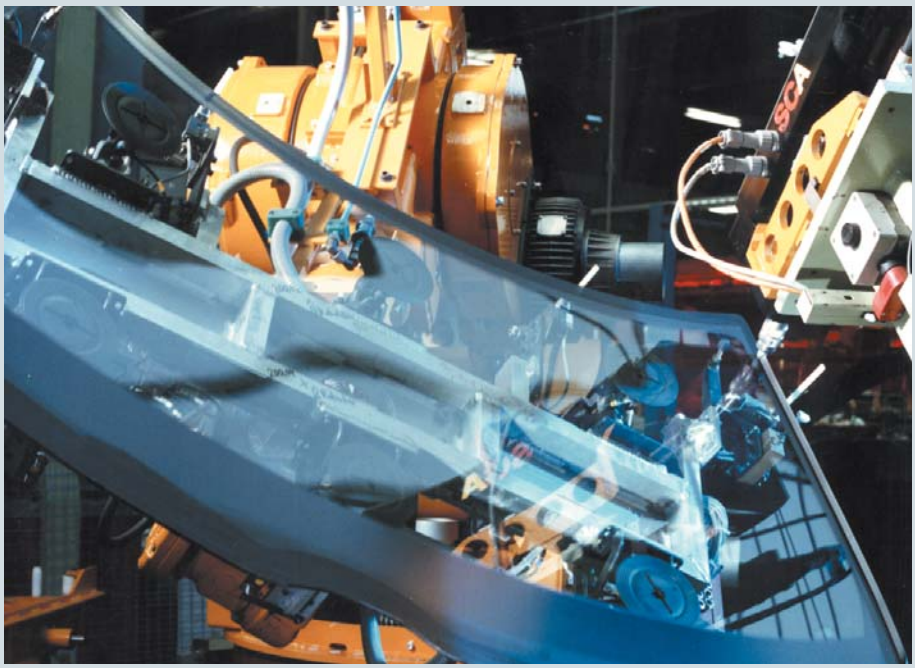
Saint-Gobain awarded both automation projects to Siemens – not least due to the fact that Siemens had the necessary industry know-how to perform a general overhaul of the automation technology during the cold repair of the float line. The good price/performance ratio of the Siemens solution with SIMATIC PCS 7 and the good support from account management were also decisive factors.

Siemens delivered not only the components for the control system and devices for the process instrumentation for both projects but also managed the technical assessment and compilation of the specification as well as the hardware and software engineering.

SIMATIC PCS 7 was able to demonstrate all its strengths, both in Stolberg and Cologne-Porz. In both cases, existing plant units such as utilities were easily integrated into the new control system. The field devices were also easily connected to SIMATIC PCS 7 via PROFIBUS DP and PA.

Within the scope of the standardization and optimization of spare parts stocks, Saint-Gobain made sure that the drive solutions were also standardized. After extensive comparisons, Saint-Gobain chose SIMOVERT Masterdrives for both Porz and Stolberg. All the drive components were connected to the control system via PROFIBUS DP.

The two new lines have been in operation for quite some time now, and both the implemented technology and the Siemens support lived up to all expectations.



Siemens AG
Automation and Drives (A&D)
Competence Center Glass
D-76181 Karlsruhe

DISPO: 06303
41C9008 MK.AS.CH.XXXX.52.5.04
Order No. E20001-A410-P200-X-7600
Printed in Germany

www.siemens.com/glass
Glass.Team@siemens.com