

LG.Philips Displays produce CRT glass with SIMATIC PCS 7



Customer Info

Customer

LG.Philips Displays

Business Group

LG.Philips Displays

Country

China

Location

Zhengzhou

Industrial Sector

Monitor glass

Project:

ANFEI - new CRT glass factory in China



Cathode ray tubes will continue to dictate the market for TV and computer monitor tubes in future owing to their low costs and excellent picture quality. But the demands on picture tubes are increasing: Flatter screens with a higher resolution at a low price are what the customer wants. The market leader LG. Philips Displays is reacting to these demands by building a new CRT glass factory in Zhengzhou in China that is automated with components from Totally Integrated Automation (T.I.A.).

One in four color screens for the world's TV sets and computers are made in one of the 32 LG.Philips Displays factories. This makes the joint venture between the Korean LG Electronics and Philips Electronics of the Netherlands the world's largest provider of cathode ray tubes for TV and computer screens. LG.Philips Displays was looking for a process control system which allows extremely complex and flexible solutions and at the same time guarantees maximum precision and consistent quality – requirements that are essential in manufacturing these glass tubes. For instance, the required quantities of glass must be exactly proportioned and the aperture mask has to be applied to the screen with an accuracy of a thousandth of a millimeter.



In a new glass factory in Zhengzhou in China, LG.Philips Displays chose an automation solution based on the Siemens Totally Integrated Automation (T.I.A.) concept for the first time.

This project is called ANFEI and is being installed on new premises. In the next phase of the project, two furnaces with two production lines each are being implemented. The ANFEI project is based on a partnership with a Chinese company and is a real international cooperation: Siemens Netherlands produced the switching cabinets for the glass press which were installed and successfully tested together with the whole press in the USA by the press manufacturers Lynch. Then they were transported to China and installed on site.

Siemens also provided the entire automation technology, including the Simatic Controller, distributed Simatic ET 200S I/O devices, Masterdrives, servo motors and the switching technology and process analysis systems. Proibus and Ethernet networks handle the communication between the individual components.

Siemens turnkey solution:

SIMATIC PCS7 process control system, automation, drives, Project planning, installation, commissioning

Factors for choosing Siemens

- Totally Integrated Automation
- flexible Process Control System
- Turnkey solution

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

