



**All of the information converges at the new PCS 7 control center**

early on, as Klaus Schuster, project manager at M+W Zander responsible for the entire electrical, measuring, and control technology of the Siltronic project, explains: "Siemens is the world market leader in the field of industrial automation. They already completed a number of successful projects together with M+W Zander. Thus, the decision was a logical one."

**M+W Zander sets up an entire fab in just two years**

## The joint work of specialists

With its wide experience as a solutions provider for production fabs in the semiconductor industry, as well as numerous references at home and abroad, M+W Zander was a good choice to assume the role of general contractor for the building of the new wafer manufacturing fab at Siltronic in Freiberg, Germany. The well-designed process and the team of experienced partners, including Siemens, ensured the successful completion of the project.

**W**ith some 8,000 people at 40 sites worldwide, M+W Zander is a true global player, and one of the world market leaders in fab design for the microelectronics industry.

The new Siltronic wafer production facility at Freiberg was a typical turnkey order for M+W Zander, which comprised everything from the planning and design to the operation commissioning of the factory. M+W itself supplied the building structure, including the cleanroom package and all of the technical infrastructure

for the project. The production technology and the associated peripheral systems were outsourced, as was the facility monitoring and control system from which all of the factory functions are centrally monitored and controlled.

### Uniform solution

At the beginning of the project, Siltronic stipulated the implementation of a uniform control system architecture at Freiberg. There were good reasons why the Simatic PCS 7 process control system was chosen

Simatic PCS 7 controls all of the sections at Freiberg that are crucial to the wafer production: building technology, ultra-pure water, chemicals, and sewage treatment. "When you rely on a standardized system in the process control technology from the very start, most of the criteria can be defined in advance. This has a positive effect on the project running time, because much less effort is required for integrating different systems," explains Schuster.

### Trouble-free upgrade

One unique aspect of the Siltronic project was the preannounced version change of PCS 7. The control system was converted to the new version 6.0 during the engineering work – a challenge that demanded a high degree of interdisciplinary cooperation from all of those involved, as Schuster confirms: "I was afraid that this would cause major problems, but, at the end of the day, there were no significant problems, which says a lot about Siemens and, especially, about the maturity of the implemented systems." ■

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