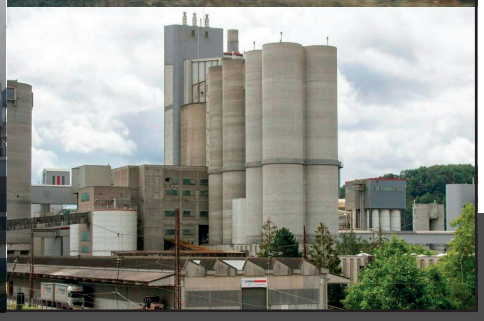
SE-ELEKTRONIC GMBH



CASE STUDY

CEMENT PLANT KARLSTADT

"Precisely controlled airflows and stable pressure conditions are the foundation for safe laboratory processes and consistently high product quality."

About the Project:
Important quality tests and analyses are conducted daily in the laboratory area of the Karlstadt cement plant. Constant airflow, stable pressure conditions, and precise control of the ventilation system are essential for reliable measurement results and safe working conditions. As part of a comprehensive modernization project, the existing central ventilation system was upgraded to the latest standards. The goal was to increase operational reliability in the long term, reduce energy consumption, and create the conditions for efficient and future-proof laboratory operations.

Why was this solution chosen?
The modernization required a high-performance automation solution capable of precisely controlling the laboratory ventilation system and centrally monitoring all system components. Using SE-Elektronic's DDC systems and the HMI WEB 7 visualization platform, a comprehensive solution for control, regulation, and monitoring was implemented. The modern building automation system ensures stable pressure conditions, demand-based system control, and maximum transparency for operating personnel. At the same time, it lays the foundation for energy-efficient and reliable system operation.

Project Name:
SCHWENK Zement GmbH & Co. KG Karlstadt

Location:
Karlstadt, Germany

Goals:
- Greater process and operational reliability
- Stable pressure and environmental conditions in the laboratory
- Reducing Energy Consumption

Benefits:
- Central Plant Visualization with HMI Web 7
- Precise Monitoring and Control of Ventilation Systems
- Stable laboratory conditions for reliable processes and approximately 50% lower energy consumption