



A Division of B&D Industrial

AGGREGATE PRODUCTION INDUSTRY

CEMENT BATCHING SYSTEM RECEIVES SOLID TECHNOLOGY UPGRADE

CUSTOMER PROFILE:

A supplier of ready-mix cement in Hapeville, Georgia

THE PROBLEM

Our customer needed an application to replace a vintage, 20-plus-year-old Omron programmable logic controller (PLC). The PLC is an important production component that monitors inputs and outputs and makes logical, software-driven decisions for automated processes. The customer needed an elegant solution that would update and simplify the company's cement batching process.

THE SOLUTION

Driven to find a solution that would yield optimal results at a competitive cost, the B&D Technologies Applications Engineering Group (AEG) created a workflow to streamline the existing operator stations and provide a robust system with a basic human machine interface (HMI). The implementation eliminated obsolete functions in the existing workflow and replaced worn out equipment, including a dozen push buttons and switches damaged from years of wear and tear.

Standardizing on an ABB AC500-eCo PLC, our team crafted a complex and affordable solution. The AC500-eCo allowed the team to imitate existing controls and hardwire features for overflow protection and alarm annunciation that hadn't worked properly on the original system. The newly devised system, which included a Beijer H-series HMI, also provided a way for operators to manually navigate each stage in the process in addition to running batch processing in full automatic mode.



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