PROCESS SOLUTIONS FOR CEMENT

PlantPAx® distributed control system enhanced functions that improve productivity and optimize energy consumption.
Faced with the challenge of dramatically reducing emissions while addressing an increasing global demand for cement, producers are looking to technology to help them reduce costs per ton, monitor energy use, maintain quality, and optimize operations.

Integrated, information-enabled solutions support improvements from system design through maintenance, and from quarry through packing and dispatch.

The PlantPAx® distributed control system (DCS) enables the seamless integration of a modern DCS with plant-floor and business systems, helping you to realize efficiencies and optimize processes across operations.
PROCESS CONTROL CHALLENGES IN CEMENT PLANTS

Cement plants face specific and intense challenges. Harsh operating environments and complex processes aren’t made easier with disparate systems and lack of real-time information.

At the same time, aging equipment and workforce dynamics can affect productivity negatively.
The connected cement plant
Integration and visibility drive productivity and performance

In the connected cement plant, integrated smart systems and advanced analytics enable end-to-end operational visibility and support better decision-making.
Why PlantPAx® distributed control system?

The PlantPAx distributed control system uses a common automation platform for seamless integration between critical areas of your plant.

A modern DCS connects process, discrete, power, information and safety control into one plant-wide experience. As such, it delivers the productivity and efficiency improvements you're looking for. It provides the real-time information you need to actively reduce energy consumption, and significantly lowers total cost of ownership.
The PlantPAx® DCS leverages the top advancements in process control

**ALARM MANAGEMENT**

Standards-driven approach

PlantPAx DCS is built on a complete state model defined in ANSI/ISA-18.2-2016, Alarm Management Systems for the Process Industries.

- Includes mechanisms that support alarm rationalization and proper alarm suppression
- Helps operators focus on the most critical issues

**DEVICE INTEGRATION**

Delivers plant-wide information

PlantPAx DCS delivers an immediate and measurable impact on asset availability, operational efficiency, and energy management.

- Integration of drives, instruments and intelligent electronic devices
- Reduced integration cost of disparate systems
- Safe monitoring of energized devices on operator screens
- Intuitive functionality improves flexibility and security

**OPERATION FUNCTIONS**

Provides more flexibility and security

With PlantPAx DCS, all objects operate within a pre-defined set of commands.

- Different functions can be granted or denied access based on a defined user group
- Fully configurable to enable highly-defined security schemes
- Out of service option for decommissioned equipment
MEETING THE UNIQUE DEMANDS OF CEMENT PRODUCTION

Combining our significant industry experience with the direct input of users themselves, our cement system drives consistent configuration across the plant.

Incorporating model predictive control technology, our solution is specifically designed to connect processing areas and improve operational efficiencies in cement production:

- Provides kiln, crushing and grinding optimization
- Reduces process variability, increases overall production and reduces energy cost per ton
- Enables better compliance with environmental regulations
- Helps increase throughput and improve process/operational consistency
A modern approach for the cement industry

EFFICIENT DESIGN AND OPERATION

PlantPAx® DCS provides a standard approach across engineering, operation and maintenance, reduces engineering risks and is easier to operate, maintain, and modify.

IMPROVED OPERATOR SITUATIONAL AWARENESS

- Simpler and more intuitive operation
- Effective displays
- Library of contextual display
- Objects to drive productivity
- Working area: Alignment to industry standards
- Intuitive alarm area
- Simplified color scheme for better operator awareness
- Language switching
Logic instructions and faceplates for cement users

We make it easy for cement producers to design and develop the most appropriate systems. Our reusable libraries of content enable the development and deployment of these systems in a timely and cost-effective way.

Our application content helps engineers to create automation projects from a standardized, life-cycle-managed, application-focused library. This content includes code and faceplates suitable for cement applications—including motor control, drives, valves and sequencing control—delivered in such a way that you can build precisely what you need quickly and efficiently.

**ROLE-BASED/EASY-TO-OPERATE FACEPLATES**

The faceplate enables operators, maintenance personnel, engineers, and others to interact with an instruction instance, which includes a view of its status and values.

- Operator tab
- Maintenance tab
- Trends tab
- Diagnostics tab
- Alarm tab
- Help file

Reset and acknowledge alarms
Permissive and interlock objects
The connected cement plant

PROCESS SOLUTIONS TO MEET YOUR NEEDS

Optimizing and maintaining critical operations in your cement plant demands expertise and modern, integrated automation solutions.

We offer a wide range of process solutions that safeguard your operations and meet your economic and performance requirements. These solutions are scalable, flexible, and easy to integrate, helping you to increase productivity, lower costs, reduce energy consumption, and improve safety.

To learn more, visit our website.