

# TOP 6 MANUFACTURING CHALLENGES

Examining the Manufacturing Industry's top 6 common challenges & how Coalmont is solving them.





■ In an era of expanding industrial technological advancements, increasing reliability and production demands, and shrinking budgets, Coalmont has identified key solutions to the industry's top 6 challenges enabling the industry to navigate the seemingly impossible task of successfully maintaining and improving the most complex manufacturing processes.

# PRODUCTION OPTIMIZATION

## DATA ACQUISITION

You can't fix what you can't see. With the power of 1,000's of data points sampled every few milliseconds, a modern Data Acquisition system has the unparalleled ability to both anticipate failures based on runtime anomalies and conditional limits, along with rewinding back to the exact moment of trouble and isolating the real point of failure. With in-depth and organized data that is reachable throughout the plant and remotely by phone, your operation is no longer left to chance. Schedule a free on-site comprehensive assessment of your system and learn how a modern data acquisition system can help bolster your operations.



## SYSTEM INTEGRATION

Regardless of the manufacturer, Coalmont has the expertise to make it all work seamlessly. When designing or improving a custom solution that utilizes different brands and communication protocols, the primary objective is to produce a world-class system that utilizes common components that you and your team are most familiar with. Not only is the cost of ownership lowered, but spare parts inventory is minimized as well. Coalmont understands the day-to-day challenges of training and retaining maintenance technicians who are responsible for the long-term operation of the equipment, so every design consideration starts with building complex and durable systems built on common and simple to understand solutions.

## PROCESS AUTOMATION

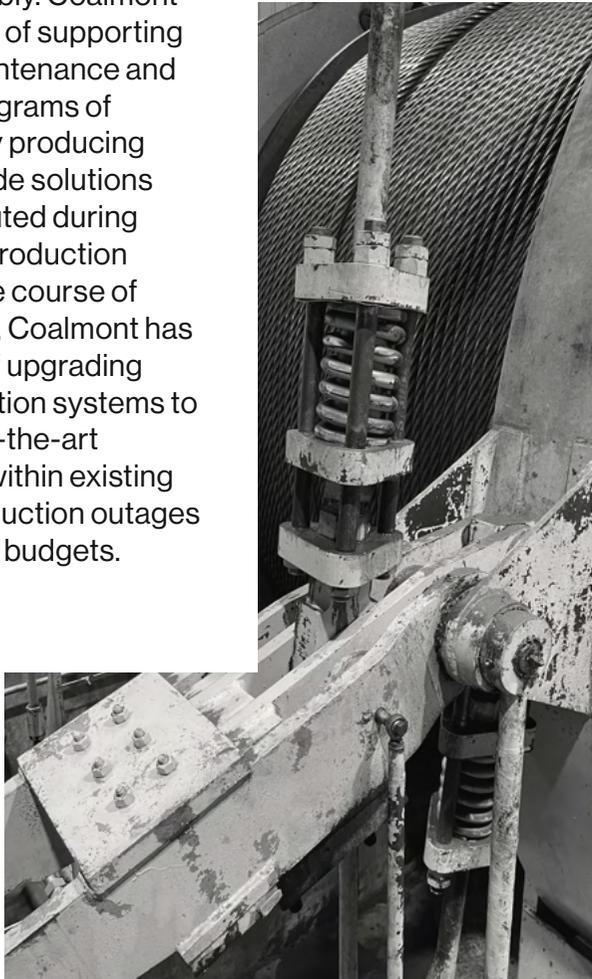
Processes change, systems fail, and technology improves. Whether your operation needs a fully automated robot cell with vision inspection, expanded Electrical distribution for added manufacturing capacity, or a complete modernization of PLC and Drive system controls, Coalmont has the experience and expertise to deliver. Each project is crafted by a team of highly skilled Engineers and Technicians who are some of the best in the industry at identifying long-term solutions and building those systems that will not only solve the problems of today, but are durable enough to withstand the rigors of the heavy industrial environment for years to come.



# MAINTENANCE

## PIECEMEAL SYSTEM UPGRADES

Maintenance budgets are never enough, and time is never available...however the machine must still run reliably. Coalmont has a long history of supporting the continual maintenance and improvement programs of manufacturers by producing piecemeal upgrade solutions that can be executed during normal planned production outages. Over the course of weeks or months, Coalmont has the experience of upgrading complete production systems to the most state-of-the-art components, all within existing pre-planned production outages and maintenance budgets.

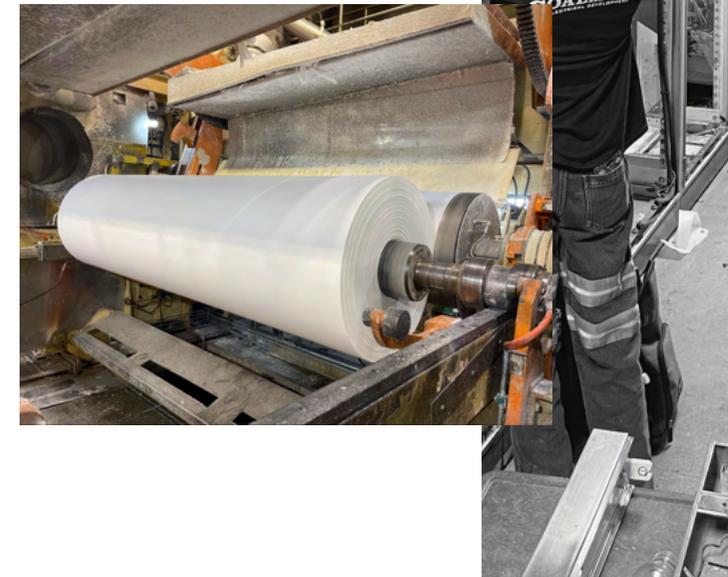


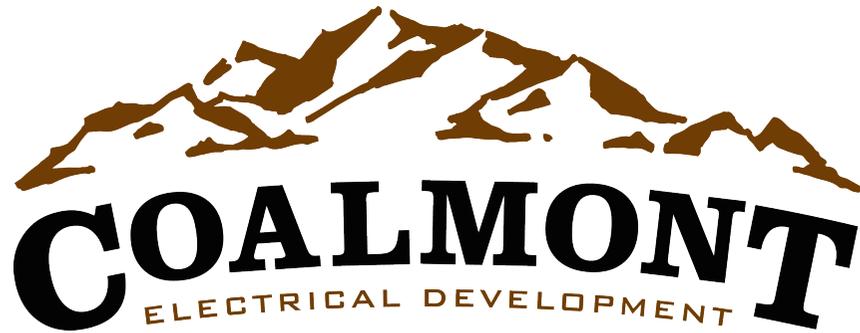
## 24/7 ONSITE SUPPORT

Equipment failure happens. Period. Coalmont has developed a team that includes some of the best Engineers and Technicians who are extremely adept at solving the industries toughest problems. We complete 1000's of hours of training each year to stay abreast of all the leading technologies, and further refine the Engineering fundamentals that are required for the most complex Electro-Mechanical support opportunities. From high horsepower synchronous motors, complex PLC automation systems, plant primary and backup power systems, and so much more. We support your entire operation.

## TRAINING

A skilled team is the cornerstone of a consistent and reliable operation. While Coalmont is an industry leader at providing high-level onsite emergency support, it is our commitment to formal training that defines our relationship with the industry. General theory and industry practices, along with custom equipment and process hands-on training, Coalmont can tailor any Electrical or Mechanical topic as it relates to your operation and team's technical capabilities.





## Since 1996

Coalmont Engineering is an industry leading System Integrator that can custom design, build, install, and provide 24/7 onsite emergency support for your entire operation. As one of the largest Engineering and Field Service groups in the Southeast, our team of Engineers and technicians have successfully implemented countless solutions that have focused on real manufacturing and performance challenges. Our mission is clear: deliver exceptional service by creating innovative solutions tailored to our customer's goals and resources.

**Get in touch.**

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