



JOYGLOBAL

Situation

Joy Global is a leader in the development, manufacture, distribution, and service of underground mining machinery for the extraction of coal and other bedded materials. With more than 90 years of experience in the mining industry, the company strives to help its customers produce at the lowest cost per ton over the lifecycle of the equipment it provides. To meet this objective, Joy Global upholds a high standard of quality and reliability in its machinery

In 2006, the company began searching for a new computer for use in its continuous mining machines. A key requirement was a vendor whose products could withstand the demanding conditions the machinery is exposed to in the mines. This search led Joy Global to FoxGuard.

The company elected to do a test run on a smaller project involving a change to one of Joy Global's other products to ensure that FoxGuard would be able to meet its needs. Mike Schindler, Senior Electrical Engineer at Joy Global, describes the company's initial experience with FoxGuard: "FoxGuard's performance during the trial period proved that the company could handle the job. We chose to continue working with Foxguard because we felt confident that they would be able to deliver a high-quality solution at a reasonable price."

Solution

Mr. Schindler met with the Foxguard team to discuss the project parameters and determine which of FoxGuard's products would provide the best solution for Joy Global's two applications. The first application involved mounting a computer directly onto Joy Global's underground continuous mining machinery. This would allow the computer



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to serve as a type of interface between the operator and the machine. The second application involved utilizing the computer in Joy Global's remote co munication console. This would give operators the ability to monitor and control the machines from a distance.

The group decided that FoxGuard would manufacture a custom display computer, or panel PC, that would be specially designed to meet Joy Global's specific requirements. The computer was constructed to operate in high ambient temperatures and withstand high vibration, shock, and moisture. Encased in a stainless steel chassis with sealed connectors, the custom display computer obtains a high seal rating. The device has a 12.1" screen, and an Intel® high performance processor. By electing to use a solid-state drive and a heat sink instead of fans, the panel PC has no moving parts – a key reliability feature. Not only was Joy Global satisfied with the technical aspects of the product, but it was also pleased with the professional aesthetics.



Exceeding Expectations

Mr. Schindler explains what made Foxguard different from other vendors: "FoxGuard made us, as a customer, feel important. The company was always willing to incorporate the feedback we gave, while managing to meet project deadlines as scheduled." He continued by saying that "FoxGuard did an excellent job of communicating the project's progress to Joy Global. And if a problem arose, FoxGuard was quick to offer a solution."

"FoxGuard made us, as a customer, feel important." -Mike Schindler



"The exceptional design of the custom display computer enables high reliability and product stability over its extended lifetime."

As a result of the success of the custom display computer project, Joy Global entered into a long term supply agreement with FoxGuard for the purchase of such custom display computers. A separate design is also in the works for a future project. "Overall, we have been thoroughly satisfied with the knowledge and capabilities of the FoxGuard team. The teamwork displayed is extraordinary – all the departments involved work together to produce an extremely reliable product. The exceptional design of the custom display computer enables high reliability and product stability over its extended lifetime." said Mr. Schindler.

When asked if Joy Global would recommend FoxGuard to others, Mr. Schindler replied, "We are very pleased with FoxGuard as a company, the products they provide, and our experience with them."

"The teamwork displayed [by FoxGuard] is extraordinary - all the departments involved work together to produce an extremely reliable product."

For more information, contact FoxGuard:



@FoxGuardInc



requestinfo@foxquardsolutions.com



company/717871