

VALUE PROPOSITION

MANUFACTURING

SOLUTIONS

GuardLogix

- New control system combines standard and safety control

RESULTS

Reduced installation time

- The GuardLogix platform requires fewer custom interfaces because of the integration of standard and safety control

Integrated standard and safety control

- Eliminates the integration and engineering requirements that would be needed to interface a stand-alone safety controller

DÜRR ECOPAINT ROBOT USES GUARDLOGIX® SAFETY CONTROLLER TO IMPROVE INTEGRATION EFFICIENCY, ASSIST WITH OPERATIONAL SAFETY



BACKGROUND

A spirit of innovation has helped Dürr Paint Systems become one of the leading suppliers of paint finish solutions. Its Ecopaint robot, which is currently used in more than 2,000 applications, is a primary example. Capable of high-quality paint finishes on everything from automobile manufacturing, aerospace and commercial vehicle industries, the Ecopaint produces a finished film thickness measured in mere millimeters.

The newest Ecopaint robot is the EcoRP E32. The new system features improved flexibility and a modular design that significantly reduces installation time while optimizing painting accuracy. These features make the EcoRP E32 ideal for older paint shops in need of updated equipment.



providing advanced diagnostics to help reduce Mean Time To Repair (MTTR).

The use of GuardLogix with DeviceNet™ Safety communicating to distributed Safety I/O, allows Dürr to easily integrate safety into its standard control system. The ability to perform both standard and safety control functions across a common backplane eliminates the integration and engineering requirements that would be needed to interface a stand-alone safety controller.

The results mentioned above are specific to Dürr's use of Rockwell Automation products in conjunction with other products. Specific results may vary for other customers.

CHALLENGE

Protecting operators and maintenance people from injuries is a top priority at Dürr. This is easier said than done, as most safety systems require compromises in productivity and throughput. Based on a Safety Risk Assessment conducted by Rockwell Automation, Dürr set out to select and implement a safety control system for its EcoRP E32 robot that would provide the appropriate safety protection with minimal impact on machine performance and production.

SOLUTION

For maximum efficiency, Dürr needed a safety system that could seamlessly integrate into its customers' existing manufacturing processes. Dürr selected the Allen-Bradley® GuardLogix® controller from Rockwell Automation based on its ability to integrate with the existing standard control systems already installed at their customers' facilities.

The GuardLogix Safety Controller is a TUV certified safety system which is rated CAT4 (EN 954), SIL 3 (IEC 61508). As TUV certified, these ratings meet or exceed the maximum requirements for machinery and process safety applications, making GuardLogix ideal for Dürr's wide range of customers.

RESULTS

The GuardLogix controller is a key offering within the Rockwell Automation® Logix Integrated Architecture. By deploying GuardLogix, Dürr is able to reduce costs, improve productivity and meet advanced safety requirements. Because the safety control and standard control are integrated on a common backplane along with other remote control and information devices such as HMI and other independent controllers, the GuardLogix platform requires fewer custom interfaces. This integration allows Dürr to considerably shorten configuration and installation time while

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