

### Reliable, and a cost-effective wireless solution for Wheelabrator Group



Wheelabrator Group is a provider of surface preparation solutions backed by the reputation of its family of brands. Dating back to 1908 these brands represent efficient wheel blast and air blast technology for a wide variety of surface preparation applications. The combined experience of Wheelabrator, Wheelabrator Tilghman, Wheelabrator Berger, Schlick, Sisson Lehmann, Spencer

Halstead, Vacu-Blast, OLT and Pangborn Europe is unrivaled in the industry. Wheelabrator Group manufactures a full range of wheelblast and airblast solutions with automated features dedicated to the demands of the industry. Technically advanced and designed for ease of maintenance, Wheelabrator Group machines range from standard versions to fully customized and integrated systems. Wheelabrator Plus professionals will inspect your current blasting equipment and conduct a thorough assessment that includes reviewing the latest modernization options to determine if any productivity, cost savings, safety or environmental improvements could be realized as a result of upgrading to newer technology.



### Application Background

This application is a closed loop monorail system where fork lift components are being blasted. The parts are suspended from the monorail and pass through our wheel blast machine using a hoist/trolley system. In the past, control of the hoist/trolley system was inconsistent using a separate bus-bar system that was mounted around the monorail for power and control signals. Mounting these bus-bars along the monorail also is a challenge. This costly system just did not perform as expected.



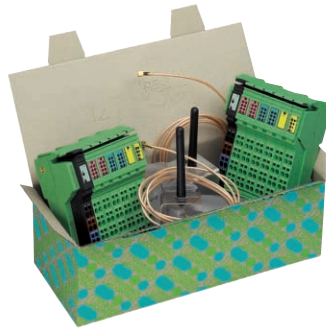
An existing monorail machine customer approached us for another machine but wanted us to improve the design of the bus-bar system which prompted our Inside Sales and Electrical Engineering department to work with Phoenix Contact on a wireless solution. “Phoenix Contact offered a Bluetooth wireless solution as a value-added component so our customers can be more competitive in this global economy”, states Devin Chaudhary, Application Specialist with Wheelabrator

Group. By incorporating the wireless solution in our control signal design we were able to successfully remove one of the two bus-bar loops. This resulted in a reliable, consistent and a cost-effective solution for Wheelabrator and its valued customer.

# Solution

Reason for choosing the BLUETOOTH solution:

Wheelabrator has always been a leader in applying the latest and the most reliable technology to blast equipment thus providing the best solutions to its customers. The main reasons to adopt this technology were: the reliability, state-of-the-art technology and being cost-effective. Other benefits included: virtually no maintenance cost, low start-up cost and ease of use.



## System Overview

The wireless IO solution ILB BT ADIO MUX allows wireless transmission of digital and analogue signals between two terminals. Depending on field conditions, distances of up to 400 meters can be achieved. As a result, process and control signals can be transmitted in adverse conditions where laying cables may be costly or impossible. Communications uses Bluetooth technology, which operates at 2.4 GHz with an integrated, adaptive frequency hopping process to ensure reliable data transmission without interference from existing WLAN 802.11b/g systems.

## Wheelabrator Provides

Wheelabrator Group provides solutions for removing sand, scale, paint, flashing, burrs and to peen, etch, polish and profile parts. "Wheelabrator has evolved over the decades, but one thing that has remained constant, and that is our commitment to the customer. There are a number of companies out there that are more than willing to just sell you a part or machine. At Wheelabrator, we make every effort to understand the customer's needs and create the 'right' solution. This "customer first" culture differentiates Wheelabrator from other companies", states Steve Reeder, Director of Online Communications

## Contacts

For questions concerning this application, please consult the experts:

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