

HEAVY TRUCK & TRAILER

Truck & Bus Manufacturer Reduced Costly Repairs with mPro400 Global Controller

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A global truck and bus manufacturer, operating on the East Coast, faced a significant challenge related to assembly errors specifically associated with O-ring installation. This critical step, preceding final tightening, relied on manual operator intervention, making it prone to human errors and frequent omissions of O-ring placement. As a consequence, the parts had to be disassembled for rework after final assembly, which proved to be a time-consuming process and significantly impacted overall plant productivity.

The manufacturer recognized the need for a streamlined solution to detect missing O-rings during the assembly process, enabling timely intervention without causing disruptions to productivity. To address this challenge, they implemented a new strategy incorporating Cleco's mPro400GCD Global Controller. This controller facilitated the detection of changes in the tightening signature, often

referred to as "trace," and automatically halted the process before reaching the final torque. The controller would provide a "NOK" (not OK) result, alerting the operator just in time to rectify the issue. By incorporating this solution, the manufacturer effectively eliminated operator error as a manufacturing risk, mitigating the shipment of incomplete components that could result in potential warranty repairs and compromise customer satisfaction.

The truck and bus manufacturer witnessed an immediate improvement in quality as a result of implementing Cleco's solutions. They are now anticipating a decrease in customer warranty claims, which is a significant positive outcome for the brand's image. With this success, they are enthusiastic about expanding their collaboration with Cleco, recognizing the capabilities of the mPro400GCD controller hub. This versatile controller hub has the capacity to support up to 16 corded or cordless tools, including Cleco's innovative range of NeoTek, LiveWire, CellTek, CellCore, I-Wrench, and Conventional Spindles. The manufacturer's eagerness to further leverage Cleco's tooling options underscores their commitment to ongoing quality enhancement and operational efficiency.

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