

Achieving Independence of Packaging Machines

IO-Link Wireless Empowers ICT Shuttles

CHALLENGE

Flexible manufacturing requires on-the-move control and automation. ICT iTRAK® shuttles allow independent motion, but pose a challenge for connectivity of control, monitoring, and power on the shuttles.

APPROACH

OEM Cloostermans integrated IO-Link Wireless TigoHub and TigoMaster solutions by Technology Partner CoreTigo to extend automation and flexibility offered by an iTRAK® based packaging machine.

SOLUTION

- Deployment of vacuum pumps, compressed air systems, TigoHub, and controllable motors on top of each shuttle cart
- Real-time (time-stamped) monitoring and data flow from shuttle on-board sensors to the main Logix Controller through TigoMaster IO-Link Wireless Master
- Rockwell Automation iTRAK® medium and small frame systems, Logix Controller, and Emulate3D™ design tools and libraries

RESULTS

Achieved improved reliability and industrial grade control of hundreds of devices (sensors/actuators) in a single work-cell



The entire machine can now **adapt** for customized production supporting hundreds of SKUs on the fly with minimal changeover time and no size-parts



Visibility of real-time conditions of all machine elements, including sensors installed on fast-moving shuttles



ABOUT COMPANY

- CoreTigo is providing high-performance IO-Link Wireless communication solutions for machine builders, system integrators, and industrial equipment manufacturers
- CoreTigo's products enable the design and retrofit of machines and production lines that were not possible before
- CoreTigo's Products provide cable-grade connectivity for millions of sensors, actuators, and industrial devices worldwide