



# Less is more!

**With rising fuel costs, companies in the United States whose operations depend heavily on transportation are facing some important structural decisions. The financial difficulties caused by volatile oil prices are especially noticeable in the area of product distribution. In the nationwide distribution centers, the task is now to evaluate and systematically optimize current processes. Cost reduction becomes a high priority in order to stay competitive on the international market. Intelligrated Inc. is introducing new solutions to the market - conveyor systems that combine high functionality with high energy efficiency.**

The American company Intelligrated Inc. was founded in 2001, and has specialized in the development and manufacture of innovative automation systems for the warehousing and distribution sector. Their products include software and conveyor systems for sorting containers, as well as accumulation, mix and control technology. In less than a decade, the company has been able to establish a significant customer base, which today includes well-known names like Dick's Sporting Goods, McGraw-Hill, McKesson, Staples and Amazon.

## **High-performance using minimum energy**

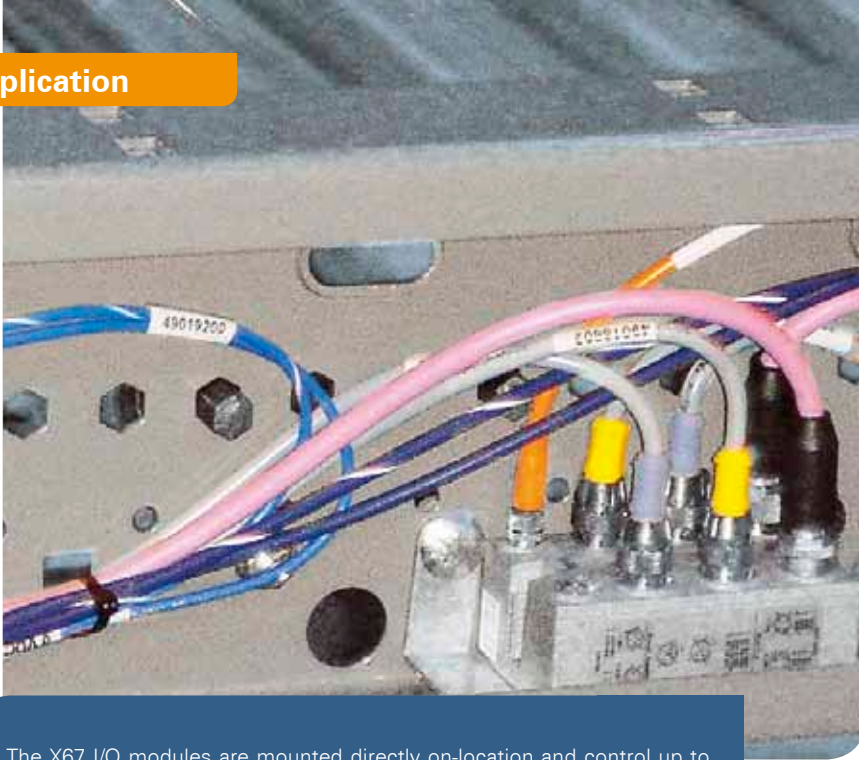
Conveyor systems operate in distribution centers to facilitate movement of incoming and outgoing products from various manufacturers - up to the point where they leave on their way to retail stores. A particular highlight is InControlWare®, a modern conveyor system for high-performance distribution centers.

The advantage of the conveyor system's architecture is the integration of machine control, operator interface, system diagnostics, maintenance tools and host interfaces in a single user-friendly system. This considerably reduces commissioning time. To address the topic of energy efficiency, Intelligrated Inc. developed the 710 MDR (MDR = Motor Driven Rollers), which uses rollers run by integrated motors and can be configured for any application. The rollers are operated at low-voltage, which increases safety and significantly reduces energy consumption. Improved ergonomics ensures extra quiet operation of the motorized rollers under 70 dB. The MDR concept is also extremely maintenance-friendly. >>



*"The B&R technology allowed us to achieve a significant increase in performance as well as a reduction of cabling effort. The result is a custom tailored solution that completely satisfies every requirement."*

**Mark Corsmeier**  
Senior Controls Product Engineer  
Intelligrated



The X67 I/O modules are mounted directly on-location and control up to four motorized transport rollers.

The highest  
in laser tec

### Simple configuration thanks to modular construction

Thanks to the modular construction, multiple sections consisting of the motorized rollers can be combined to form an integrated conveyor system. The drives for the rollers are controlled using modern X67 I/O modules, which connect the separate sections with only a single X2X cable for minimal cabling effort.

The X67 modules can control up to four motorized rollers. The rollers contain a compact, electronically rectified brushless motor.

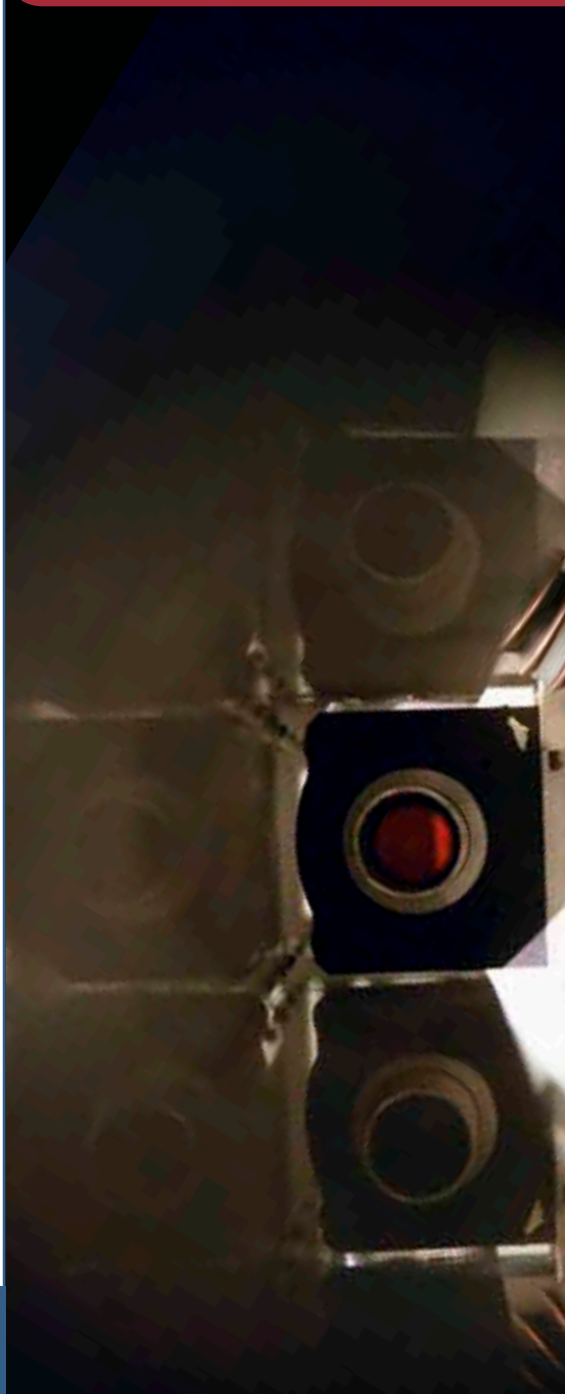
### Optimum integration

The architecture of the B&R components can be adapted to the customer's particular application requirements. All the components can be easily integrated in the customer's own communication system. Although Intelligrated Inc. still uses Profibus for its control, they are currently preparing to switch over to POWERLINK. The goal is to increase performance and reduce cost. The fieldbus interfaces are bus controllers from the X20 or X67 series. It doesn't matter which controller series the customer selects - the motorized rollers can be freely configured and even controlled remotely.

### A partnership for high customer satisfaction

"With the X67 series from B&R we were able to implement a central

point of knowledge for the conveyor system," says Mark Corsmeier, Senior Controls Product Engineer at Intelligrated Inc. "Thanks to this, we have increased the diagnostics of the new conveyor line. The B&R technology has also drastically increased performance and reduced the amount of wiring. Increased functionality allows us to provide solutions for our customers' most demanding tasks. We have easily achieved our goal of reducing total costs with a uniform system architecture and using energy efficient automation components," explains Mark Corsmeier. ■



### Intelligrated:



Founded: 2001

Employees: 300

Turnover: approx. 132 m EUR

Locations: Mason and London, Ohio (US)

Products & Services: Conveyor systems for the warehousing and distribution sector

[www.intelligrated.com](http://www.intelligrated.com)