

Case Study

Textile Weighing

Solution for hotel laundry reduces waste of chemicals/detergents and improves efficiency

Challenge

- Prevent waste of expensive chemicals/detergents
- Improve efficiency
- Communicate with DeviceNet network interface

Solution

- Single point load cells
- C2 electronic calibration for saving time and money
- HI 200DNWM DeviceNet Weigh Module communicates with their control system

Results

- Optimized use of detergents and chemicals for huge cost savings
- Maximized efficiency of wash and dry by knowing weight of loads
- Saved time and money with C2 electronic calibration of load cells



THE CHALLENGE:

A large hotel facility is wanting to improve the efficiency of their laundry room making sure that all their laundry is cleaner than clean and their image is spotless. "From hotel bedding to table linens, towels to uniforms, we keep each machine running several cycles per day," says the customer. They need to ensure the right amount of cleaning chemicals and softeners are used. Getting the ideal weight of each bag helps them use the most efficient amount of chemicals/detergents and maximizes their washer/dryer efficiency.

THE SOLUTION:

Load cells are placed under the rails of the automatic conveyor in the area where the bags are sorted and filled. The load cells send the weight signal back to a Rockwell Automation® control system via DeviceNet.

THE RESULTS:

Getting an accurate weight of each bag as it is filled enables the customer to use the most optimized amount of chemicals/detergents and run their washers/dryers at peak efficiency saving on water, heating, electric, and sewer. "Optimizing our chemical/detergent use has provided us with huge cost savings," says the Operations Manager. Additionally using Hardy's C2® load cells with electronic calibration saves time and money previously spent on routine calibration checks.

EQUIPMENT USED:

Hardy installed its single point load cells with C2 feeding. These stainless steel load sensors offer superior performance and exceptional value. The HI 200DNWM DeviceNet Weigh Module provides weight information to the DeviceNet platform for feedback to their control system.

EXAMPLE CUSTOMERS and APPLICABLE INDUSTRIES:

Any commercial or industrial laundry facility. The above laundry is part of a very large entertainment/theme park complex. Besides hotel laundries, there are potential applications at facilities that service laundry for large medical campuses/hospitals, or large clean room laundries.

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