

# WASH AISLE SYSTEMS



Wash Aisle

## Softrol Wash Aisle Systems: Automating material handling for greater efficiency

The core of our Total Plant Management program is controls. As a proven leader in developing state-of-the-art controls for over 25 years, Softrol provides material handling and automation solutions. Our experience and expertise in designing, developing and building high-quality, cost-effective automated solutions provides you with a competitive advantage.

Softrol's comprehensive data analysis and production expertise delivers a flexible, scalable, and accurate automation solution. Our experienced engineers keep your current equipment in mind when designing new systems, ensuring a seamless integration. We understand the best design is much more than just installing new equipment. We take into consideration your overall goals and compare scenarios to make sure your design includes choosing the best components.

Our material handling automation is designed to help increase productivity, flexibility and quality. Whether you need to replace an existing control on a single dryer or want to completely automate your wash aisle, we can customize a material handling solution to fit your needs.



Durable operator interface extends equipment life and simplifies machine operation



Softrol manufactures all circuit boards and controls in the USA



Control retrofits extend the life of your washroom equipment

Modular control components make diagnosis and repair easier



Control retrofits for tunnel washers help minimize the cost of continuous batch washers



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## **Washer Controls: creating optimum wash aisle conditions**

At the heart of our automation solutions are Softrol's washer and dryer controls. With the Softrol controls, process variables can be monitored and controlled to create optimum washroom performance. The controls are available on new washers through several OEM manufacturers or as a retrofit on existing equipment.

The washer control offers advanced programming capability to allow precise control of every step in the process. Customize formulas to achieve the desired results with functions such as ratiometric chemical/water additions, cylinder rotational speed control, and temperature control. Softrol's lineup of washer controls will maintain safe and efficient working conditions with programmable alarms for conditions such as water levels, temperatures, and RPMs. Other parameters may be used for machine diagnostics and preventative maintenance, such as maximum fill or drain times.

## **Washer Control Features**

- Programmable water additions by volume or level
- Programmable temperature ranges
- Up to 50 programmable chemical names
- Up to 128 programmable formulas
- Thermo water fill capability
- Alarms (watchdogs) for alerting operator of malfunction
- Up to 30 automatic signals for liquid chemical injection systems
- Multiple flush signals for dry chemical injection
- Eight level password protection
- Modular design
- Built in diagnostic routines
- Programmable maintenance intervals with alarms
- Programmable from a PC

## **Benefits**

- Complete automation
- Process control of variables
- Reduced machine downtime
- Simple troubleshooting
- Maximizes quality
- Prolonged machine life
- Optimum production control
- Auto adjustment of process conditions across load size

## **Options**

- Variable speed control
- Water volume metering
- PC interface





### **Dryer Controls: programming for high level operations**

Softról's dryer control does all of the load checking automatically, without ever opening the doors. When the alarm sounds the load is finished. No restarts, no lost time, and no lost energy.

The dryer control can be programmed to automatically adjust the drying time based on the rate of temperature change throughout the formula. Easily programmed algorithms calculate the condition of the load and terminate the formula at the correct time to prevent costly over drying. Advanced control functions are used for maximum drying efficiency and precise temperature control. Control by humidity sensing is one of the many available options.

The control constantly monitors established safety conditions, and will not allow operation of the dryer if any of these conditions are compromised.

#### **Dryer Control Features**

- Easily programmable
- Inlet/Outlet temperature monitoring
- Adjustable drying time
- Variable burner and proportional rates
- Programmable inlet/outlet temperatures
- Control monitoring of load conditions
- Programmable algorithms to declare load dryness
- Operator alarms for equipment malfunction
- Programmable from a PC or laptop

#### **Benefits**

- Load conditioning to desired dryness
- Reduced rejects and damaged goods
- Increased production with efficient drying
- Elimination of operator load checking
- Efficient gas usage
- Shorter drying times
- Remote machine monitoring with additional software and networking components
- Prolonged equipment life

#### **Options**

- Air pressure sensing which alarms for improper airflow
- Humidity sensing
- Modulating gas valve kit

The Softról washer or dryer control is available as a machine retrofit or as a standard control on new machinery from one of Softról's many OEMs.



Automatically adjusts dryer time based on temperature change

### **Wash Aisle Automation - Retrofit or New Controls**

In addition to washer and dryer controls, Softról can help make the most out of any wash aisle equipment. We manufacture controls for complete wash aisle automation. Softról controls are available for wash aisle equipment from one of our OEM partners on new machinery or as retrofits on existing equipment.

Additional washroom equipment that we can control:

- Continuous Batch Washer
- Water Extraction Press
- Conveyors
- Shuttle

We also offer turnkey equipment procurement for both conveyors and shuttles.



A variety of software packages are available for wash aisle reporting and management



Identify production bottlenecks and monitor the washroom from the office or remotely



Real-time displays and advanced reporting help improve wash aisle throughput

Softrol washer and dryer controls can be networked with Softrol's communications package for individual machine communications or an entire washroom network. Both wet and dry process software products are part of Softrol's Management Information Suite.

In addition to wet and dry process software, Softrol offers an assortment of software products to optimize wash aisle performance. Software available includes:

**Advanced Wash Aisle (AWA)** – Advanced Wash Aisle combines the Real Time Display software and the Advanced Reporting Package into one software package. This complete software package brings an expanded level of information to operators and plant management enabling faster issue identification, better equipment utilization, and improved productivity and throughput.

**Real-Time Display** – The Real Time Display Package is an interactive display that shows real time and historical data for the wash aisle. It provides second by second information on today's processing and entails wash aisle interactive touch screen displays, large screen status center displays, and remote monitoring stations (optional).

### **UtiliPulse Utility Monitoring Package -**

This package enables management to monitor and track, on a real time basis, any number of customized utility metering points to track consumption. The UtiliPulse package includes monitoring hardware for any customer supplied meters. There is a wide variety of information that can be monitored, tracked and reported, to help improve plant performance and lower utility costs. With a very attractive payback for the investment, typical resource monitoring includes:

- Total water, natural gas, and electrical consumption
- Inlet and outlet temperatures on both sides of a wastewater heat reclaimer
- Water meters on individual washers
- Gas meters on individual dryers
- Total hot and tempered water consumption and temperature
- Total wastewater discharged
- Boiler stack gas temperature



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