

tunnelMATE™

BY ULTIMATE TECHNOLOGY

Control Box



Contained Chemical Calibration at Washer Module



Pumping Station



Chemical Manifold



Flow Meters Provide Proof of Flow Proof of Delivery



CHEMICAL DISPENSING SYSTEM:

The tunnelMATE chemical dispensing system is designed to meet the demands of working with continuous batch "Tunnel" washers. The design meets the challenge of the industries critical requirements providing repeatable deliveries, proof of flow, and proof of delivery, while being packaged in a robust mechanical design thereby supplying minimal down time.

The tunnelMATE utilizes direct inject for a wide range of concentrated liquid chemical to the Tunnel Washers individual pockets. The system can deliver the chemical in the turn times required with repeatable accuracy. The tunnelMATE supports up to 8 pockets and 16 chemicals from a single dispensing system. Total process control is managed through the Omron PLC unit.



Simultaneous Chemical Delivery Service to Tunnel "CBW" Washer Modules

SYSTEM BENEFITS:

User Friendliness:

PLC control with 5" color Touch Screen display for easy programming of operation and set up. Finger tip navigation of the screen.

On-screen Diagnostics:

Popup screens are used to generate Warning Alarms and identify undesirable delivery conditions. These allow swift resolution by on-site personnel to minimize the effect on the tunnel output quality.

Advanced Diagnostic Tools:

Tunnel status and chemical usage information are displayed on screen. Programming and user interface screens contain instructions that clarify operational requirements. Optional remote support capabilities audible alarm and/or stack light are available. Consult factory for options or desired features.

Improved Performance:

Repeatability is maintained through the full range of chemical deliveries. tunnelMATE can deliver up to sixteen chemicals to eight pockets and for simultaneous chemical injections to ensure delivery between turns.

Improved Reliability:

Stable Omron PLC control platform. The system incorporates field proven components.

The tunnelMATE system works by communicating with the Tunnel Washer dry contact outputs. The request for delivery of chemistry from the tunnelMATE is based on the individual wash formulation requirement called for by the washers control. The tunnelMATE chemical injection system control (PLC) accepts the washer controls requests and pumps chemicals to the correct module to make accurate delivery. The tunnelMATE provides proof of flow and proof of delivery as controlled by the (PLC) and flow sensors. this combination and technology ensures reliable and repeatable results.

Omron PLC Control with HMI Touch Screen Navigation



- Real time requested Volume
- Pump Status
- Chemical Flow Indicators
- Alarm Response Screens



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