

# Pre-wet Systems

**Pre-wet - Application of a liquid chemical ie. Salt brine, calcium chloride, magnesium chloride, etc. to a granular material.**

## Why Pre-wet?

1. Faster reaction time to start the brine process.
  - In-order for the rock salt to breakdown it must have moisture.
2. More material stays on road surface where spread.
  - Test results from many states show that on average 30% of dry salt is lost off the road surface upon application.
3. Allow you to use less product.
  - Salt that has been pre-wetted had a loss rate of 4% on average.



## Available Pre-wet Systems:

LDS-333 Electric Liquid Dispensing System  
LDS-455 Hydraulic Liquid Dispensing System

Electric Close Loop System  
Hydraulic Open or Closed Loop System

## Components of a Pre-wet System



**Tanks** - Available in many different volumes and shapes. Poly tanks have integrally molded threads, baffles and sash guards for the lid



**Pump** - Hydraulic or Electric. Displacement is typically from 3-7 gallons per minute.



**Control and Harness**



**Plumbing Fittings**



**Nozzles**



## Open Loop vs. Closed Loop

Closed Loop has a flow meter installed in the plumbing to measure flow. The flow meter emits electrical pulses that are received by a ground speed controller. The control monitors the amount of pulses relative to granular product dispensed.

Open Loop does not contain a flow meter. It may be driven off of the exhaust oil of the conveyor so that as the conveyor speeds up the pre-wet pump also increases. This keeps your ratio of granular to liquid equal.



*Tailgate Mounted Pre-wet System*



*Behind the Cab Pre-wet System*



*V-Box with Pre-wet System*



*In-Bed Tank Pre-wet System*



*Fender Mounted Pre-wet System*

