

Service Bulletin: MART Power Washer

MART Tech Services

Wastewater Processing

One of the most important topics in the industry today is what to do with the waste water from your washer. It is a key step to saving money while providing for sound environmental management strategies. With proper wastewater management there is an increase in washer bath life.

By reducing chemical usage and consistent soil loading, you will achieve longer bath life. There is less wastewater discharge, which will reduce surcharges on waste effluent from the facility.



To minimize disposal costs of wastewater, oil and sludge should first be removed from the cleaning solution.

Oil skimmers remove floating oils, greases, sludge, fatty acids and other contaminants that cling to the rotating skimmer wheel and can be scrapped off into a container by wiper blades. Sludge scrapers are effective at maintaining the cleaning solution by removing contaminants that sink and become sludge at the bottom of the reservoir. Using a sludge scraper after a wash cycle lengthens the time between solution cleanout.

Since the skimmer and sludge scraper remove only contaminants, only the water and cleaning chemical is left in the machine. You do not have to pay someone haul off the water as waste.

Suggestion for waste minimization.

Pump solution into drums and let sit over a weekend. When the solids have settled and the oil has floated to the surface. Remove the oil with a skimmer. Pump the water portion back into your washer. Consolidate the sludge from several drums into one and have the solid waste hauled off. The water and chemical can be used over until you reach a supersaturated state.

There are a variety of contaminants that can be separated from cleaning solutions and the nature of these contaminants dictates how they can be removed.

- Tramp soils are those that immediately float to the surface of a cleaning solution. The optional MART Oil skimmer or sludge scraper can effectively remove these soils.
- Mechanically dispersed soils refer to oils, greases and other organic soils that have been dispersed through agitation. They eventually float to the top of the cleaning solution or fall to the bottom within a given period of time. Again the optional MART oil skimmer or sludge scraper can effectively remove these soils.
- Chemically dispersed soils refer to contaminants that are naturally soluble in water or have been chemically dispersed by surfactants to form a stable emulsion.
- Particulate soils include carbon, rust, iron filings, etc.

MART has spent many years of field testing wastewater management and processing with the MART EQ-1 wastewater processor.

The EQ-1 provides closed loop recycling, all wash and rinse water along with chemicals are available for reuse in the cleaning system. The one-step EQ-1 processor qualifies as a zero discharge system, none of the wash or rinse bath is discharged for disposal. End result offers end of pipe processing with options that can make the effluent sewerable.



**For further information please contact
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