



Screenings Washer Monster®



Overview

The Screenings Washer Monster is a self-contained, hopper-fed system used to effectively grind, wash, compact and dewater screenings that have been captured by a wastewater screen. This innovative washer-compactor is typically paired with our screens in the Monster Separation System™.

The Screenings Washer Monster's ultra clean discharge is up to 50% dry solids content and volume is reduced by up to 80%. A unique grinding process prior to separation increases the exposed surface area so the washing system more thoroughly removes soft organics. The discharge is virtually free of faecal content, thus reducing odours, eliminating hazardous waste conditions and lowering handling costs.

The internal auger screen and spray wash system separates the soft organics from the plastics, paper, latex and other undesirables. This material is conveyed to the discharge tube where further compacting and dewatering occurs. The result is drier, less odorous screenings ready for disposal, and a greatly reduced burden on the treatment plant's staff and budget.



From this...



...to this! It takes a Monster to get screenings this clean!

Features & Benefits

Unique Six-stage Washing and Compacting Process

- System integrates six functions into one compact, ready-to-run unit: feed wash, grind, wash, screen, compact, dewater
- Dewater screenings by up to 50% dry solids content
- Reduces volume of screenings up to 80%
- Drastically reduces odour
- Cleaner discharge with little, if any, faecal content (BOD)
- Discharge eliminates hazardous waste surcharges and other landfill fees

Dual-Manifold Wash Water System

- Two washing areas help break up soft organics for superior cleaning
- Washing action puts soft organics back into the treatment process not in the waste bin

Automated PLC Monitoring and Controls

- PLC accepts input signal from screening device
- Automatic on and off cycle for all components
- Automatic cleaning and run cycles
- Adjustable cycles to maximize cleaning efficiency

Portable

- Optional roller base allows movement of unit from screen to screen, or building to building as needed

Unique Modular Assembly

- Allows custom configurations to fit in floor space allotted
- Customized hopper configurations (optional) connect the system with existing headworks equipment

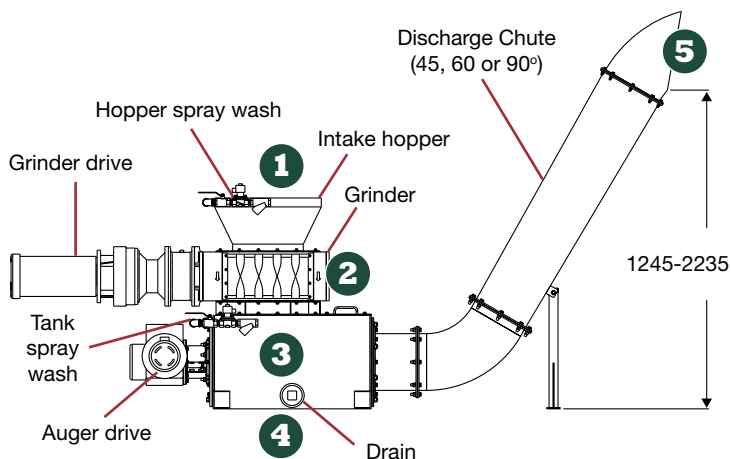
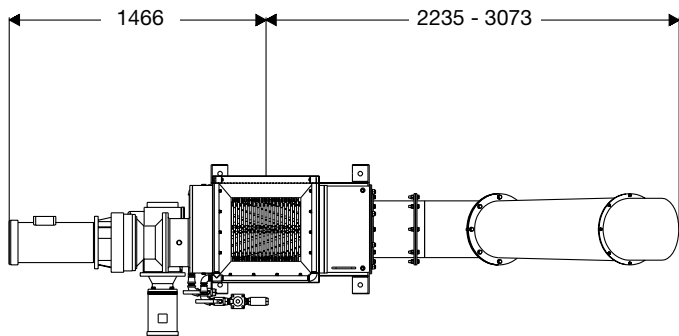


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Equipment Sizing

Capacity:

Model..... Standard..... With optional scrapers

SWM4018 1.4 m³/h 4.3 m³/h

SWM3018..... 0.7 m³/h 2.1 m³/h

Weight: SWM4018 is 1111 kg; SWM3018 is 771 kg

Grinder motor: SWM4018 7.5 kW; SWM3018 4.0 kW

Auger motor: all models are 2.2kW

Discharge angles: 45°, 60° or 90°

Options: Scrapers; roller base; custom hopper sizes; custom discharge tubes

Operation

- 1) Screenings are conveyed or directly discharged into the Screenings Washer Monster. Operation is synchronized with the Monster Separation System™ or existing screen/conveyor.
- 2) Screenings pass through the grinder for solids reduction.
- 3) The ground-up screenings are then washed and conveyed by the auger. Softer organics (faecal) and wash water pass through the auger's perforated screen. The unwanted solids are captured and transported for compaction and dewatering.
- 4) Soft organics (faecal) and the wash water are returned to the plant's waste stream in front of or behind the screen as needed.
- 5) The washed captured solids are compacted, dewatered, and discharged as a solid cake into a receptacle for disposal.

Materials of Construction

Tank and inlet hopper: BS1449 304S15 stainless steel

Auger system: BS1449 304S15 stainless steel with alloy steel screw

Cutters and spacers: BS5130 heat treated alloy steel, surface ground, through hardened to a minimum 45-50 Rockwell "C"

Sample Screenings Discharge



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