

FSM[®] Screw Wash Press

Heavy-Duty Screenings Washer

SPW





FSM® Screw Wash Press - SPW

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A High Performance Wash Press that Easily Adapts to Sudden Load Changes

Waste disposal is a cost factor for every plant. The FSM SPW can reduce the volume and weight of screenings by 60 – 85% and achieve 40% dryness. The innovative washing function of the SPW achieves fecal reduction of <20 mg/g BOD5 which is > 95% of fecal matter in the solids being discharged. The result is clean, dry screenings with practically no odor and vector attraction at the headworks.

The FSM SPW is available in three sizes with screw diameters of 200, 300 and 350 mm. Screenings are discharged into the wash press hopper either directly from a screen or via conveyor. The shafted screw conveys the screenings through the washing cycle and on to dewatering and compaction. Liquid released from the solids is discharged downstream for further processing. The plant's biological process needs the organics; landfills do not.

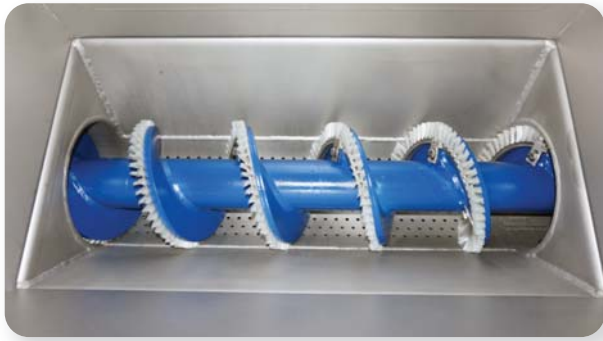
The built in washing device operates in a scrubbing function that breaks up, loosens and washes out fecal matter. An optional "whirl" agitator can be installed in the inlet hopper to further increase the washing function.



Applications

- Headworks screenings.
- Primary and secondary sludge screening.
- Power plant intake water screening.
- Other industrial applications such as:
- Pulp and paper debarking.
- Industrial waste water





Fully Welded Hardox Shafted Spiral.



Optional Screenings Cutter



Screenings Before and After Optional Screenings Cutter.



Features

- Through put up to 425 cfh in a single unit.
- Perforated drainage sections with counter sunk perforations to a maximum 6mm in diameter.
- Axial thrust bearing fully supports the screw and handles the compaction load and screw reversal.
- Durable stainless steel construction.
- Unsurpassed volume, dryness and fecal reduction.
- Completely enclosed for safe, odor-free operation.
- Can be fed by conveyor or sluice.



Manual Back Pressure Device Shown.

Options

- Hydraulic back pressure device – manual and automatic.
- Prewashing in the inlet hopper.
- Screenings cutter at discharge.
- Freeze protection.

Optional Back Pressure Devices For Increased Washing and Compaction

Manual - An operator controlled manual back pressure device located in the discharge pipe is available. Back pressure is generated by a stainless steel plate housed in a hinged access box.

Automatic – Back pressure is automatically generated by a hydraulic cylinder controlled in the main control panel. The pressure device is housed in a hatched access box which is integral to the discharge pipe.



Optional freeze protection available.



FSM® Duplex Wash Press – SPW350-D & SPW350-DM

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This innovative wash press design has two wash press units side by side in a single press body. One inlet feeds the two wash press units. This SPW350-D can wash and dewater 700 cfh.



SPW 350-DM with optional impellers to increase washing function.



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