

Overview

Sludge Dewatering Systems

Sludge Management



FRC sludge dewatering systems cut sludge volume and disposal costs. Our Belt Filter Press and Multi-Disc Screw Press deliver drier cake with low energy use and reliable performance.

FRC sludge dewatering systems provide cost-effective solutions for reducing sludge volume and disposal costs. Our Belt Filter Press and Multi-Disc Screw Press handle diverse sludge types, delivering drier cake with lower utility use and simple operation. Built from stainless steel with automated controls, they improve efficiency, cut hauling costs, and ensure compliance.

Belt Filter Press: Sludge moves through gravity thickening and pressure stages on porous belts. Rollers squeeze out water, producing a consistent, drier cake.

Multi-Disc Screw Press: Flocculated sludge enters a screw with fixed and moving discs. As it rotates, water drains while sludge compresses into a high-solids cake. The self-cleaning design minimizes maintenance and water use.

Key Features

- Two proven dewatering technologies: Belt Filter Press & Multi-Disc Screw Press
- High solids capture rate with drier cake for reduced disposal volume
- Low energy and water consumption compared to conventional systems
- Stainless-steel construction resists corrosion in harsh environments with custom alloys available
- Easy integration with DAF, MBBR, or MBR wastewater systems
- Fully customizable system configuration including skids, catwalks, and controls

Specifications

- **Belt Filter Press Flow Rates:** Up to 350+ GPM
- **Belt Widths:** 0.5 – 3.0 meters
- **Multi-Disc Screw Press Flow Rates:** Up to 440+ GPM
- **Dry Solids Capacity:** Up to 4,000 lbs-DS/hr
- **Construction:** Stainless steel (304, 316, duplex, or custom alloys)

Applications

- Food & Beverage wastewater treatment (dairy, meat, poultry, breweries)
- Municipal wastewater plants and sludge handling facilities
- Petrochemical, pulp & paper, and chemical industries
- Mining and landfill leachate treatment
- Any facility requiring reduced sludge hauling and disposal costs

Why choose a sludge dewatering system from FRC?

FRC sludge dewatering solutions deliver reliable performance at low lifecycle cost. Our Belt Filter Press and Screw Press reduce sludge volume, cut disposal costs, and provide long-term compliance savings.

How can we help you?
Contact us today to find
your best solution.



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