



Sludge Screw Dewaterer

SSD

A dependable device for municipal biosolids dewatering, the SSD has a very slow rotational speed resulting in dry cake, low maintenance and quiet operation.

Reduce Volume with sludge dewatering

Overview

With installations across the globe, the SSD is the ideal solution for dewatering municipal and agricultural biosolids to produce dry cakes comparable to any centrifuge or decanter. With a high capture rate, the liquid fraction is low in suspended solids.

The SSD's robust design allows for long operation times, minimal maintenance, and extremely low power consumption.



The SSD produces a dry cake



Low solids filtrate is removed from sludge fed to the SSD



An SSD installation

Features

- Innovative wipers reduce the risk of screen blockage
- Integrated spray cleaning system for easy maintenance
- Adjustable cake dryness

Process

1. Sludge fed to the SSD is conditioned for thickening by polymer addition.
2. Free water is drained from the feed sludge in the first stage of thickening.
3. Two stages of pressing occur, and a high solids cake is squeezed out of the SSD.

Advantages

- Long life and maintenance free operation due to slow rotation speed
- Continuous operation and long duty cycles
- Low energy requirements, often 90% less than comparative decanters or centrifuges
- Dewatered cake for volume reduction and reduced disposal fees

