

Manure Solid-Liquid Separator

The LX manure separator utilizes a press screw to efficiently separate animal waste into liquid and solid components. This process allows the liquid to be drained into storage while the dry solids can be used for compost, fertilizer, or animal bedding.



Overview

Efficient Solid-Liquid Separation

The LX manure separator utilizes press screw technology to effectively divide animal waste into nutrient-rich solids and manageable liquid slurry. By extracting recalcitrant solids, this system enhances the efficiency of downstream waste management, such as composting or microbial treatment. The resulting solids are ideal for use as fertilizer or animal bedding, significantly reducing the necessity for external nitrogen fertilizers.

Performance

Throughput Capacities by Source

Source Material	Processing Capacity
Pig manure slurry	20-25 M ³ /hour
Cattle manure slurry	10-15 M ³ /hour
Chicken manure slurry	7-10 M ³ /hour
Anaerobic fermentation slurry	15-20 M ³ /hour

Moisture content after separation

40 %

Min Moisture

55 %

Max Moisture

Features

Suitable Applications

Compost production, Fertilizer manufacturing, Animal bedding, Manure management

Design

Construction Features

- Robust construction
- Cylindrical screen assembly
- Screw conveyor mechanism
- Mobile frame with wheels
- Integrated control panel with voltmeter