Solid matter feeding systems for biogas plants

Cost-effective operation of a biogas plant essentially depends on appropriate allocation of personnel and the reliable function of automated plant technology.

After filling, the biomass is fed to a collector screw via parallel push floor plates.

Cost-effective and functional

Drive-on concrete receiving station with weighing function and mechanical or, alternatively, hydraulic fermentation plant feeding equipment.

Solid matter dosing and storage systems from 13 to 180 m³

Shredding and treatment technology
Special conveying equipment
Overall plant concepts for solid matter feeding

Solids dispenser and storage systems from 40 to 200 m³

Discharge screws
Push floor elements
Concrete container with stainless steel push frames and plastic lining in the base area
Weighing equipment
Vertical conveyor
Fermentation plant feeding screw
Hydraulic conveyor system
Hydraulic actuators

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Individual plant solutions using proven standard components

System advantages

In combination with additional conveyor screws, the system allows fully automatic dosed transport of solid matter into the fermentation plant.

Steel and stainless steel construction

Advantages of our solid matter dosing system series SBC:
- reliable
- low energy consumption
- robust design
- optional weighing system
- short installation times

Concrete structure

Advantages of our solid matter dosing system series ZBC:
- reliable
- low energy consumption
- drive-on design
- optional hydraulic closing ramp
- below ground level design for tipper trucks
- high storage tank volumes possible

Drive-on concrete solid matter dosing system series ZBC with hydraulic closing ramp
Plastic liner, stainless steel push frame and ZBC series spreading unit
Rear view of series ZBC with conveyor system
Hydraulic telescopic cover for concrete container of series ZBC
Vertical spiral screw conveyor with 2 alternative fermentation plant feeding screws
Direct feeding from the solid matter dosing system into the fermentation plant
Transfer from the solid matter dosing system into pump systems
Shredder integrated in the conveyor system