

Possibilities and advantages:

Suitable for Nawaro, manure, waste or similarly cut biomass. Machine design according to list of material used. PLC controller for time- or weight based metering. Communication with other controllers (e.g. plant controller via Profibus) and own automatic control

The grinder:

Safe disintegration of stored biomass. Versions for up to 100% grass, manure, whole-plant silage, maize. Metering in loosened state without lumps. With single drive, 11 kW. With double drive, 11-22 kW. With single drive version for all materials used.

Fermenter feeding:

Directly from the top through the fermenter ceiling.
Lateral filling For high fermenters with additional conveying devices Distribution and metering to many fermenters.
Feeding below liquid with special screw press.

Available as

a) Pull floor with closed floor tray as metering feeder or concrete bunker:

With two hydraulic pull elements in tight stainless steel tray. Double systems and concrete bunker systems with PE for special versions up to 300 m³ possible.

b) Scraper floor up to 200 m³

With closed, tight underfloor. Two fully independent chain conveyors with their own drive. Hydraulic chain tension with safety interrupt. New drive concept with lubrication facilities from the outside. The raw materials are mixed without additional energy consumption by grinding all filling layers evenly. No fermentation in the metering feeder due to continuous mixing. Lowest power consumption of all conveyor systems. 240 W for 36 tonnes at 20 to/h conveying performance. Chain lubrication system for long service life is standard. Conveying capacity of 3-35 m³/h, suitable for all conveyors or pumps.

We will gladly inform you of reference customers and customer addresses in your vicinity.

We are committed to improving our products on an ongoing basis and reserve the right to make changes without previous notifications. The delivery scope is determined by your order. BP 1111.

Romberger®-

Metering feeders for biogas

The right feeding technology for your biogas plant:

- Solid stainless steel construction
- Shredding grinder
- 20 – 300 cbm bunker volume
- Time- or weight-based metering
- Different feeding techniques
- From the top through the ceiling
- Distribution to several fermenters
- Lateral filling of the high fermenter
- Below the surface of a liquid with screw press
- Communication-enabled controller
- With self-monitoring controller
- Low internal power consumption
- Modular construction
- Weighing system with large display

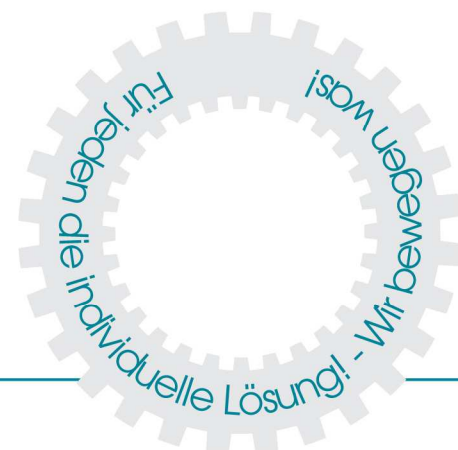


Feeding system with weight-based metering and screw conveyors. Versions in stainless steel

Our products are continuously developed to comply with increasing requirements. Talk to us. We also have the right feeding method for you



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Different metering feeders of our series:



Inclined conveyor with stainless steel conveyor



30 cbm metering feeder with lateral fermenter screw
Scraper floor version with closed underfloor



Solid material metering feeder 2 x 50 m³
performance 210 to/d



Solid material metering feeder 40m³ ceiling installation



60 cbm feeder with method for injection below
liquid (up to 6 m under water)



With collection, connection and fermenter screw
conveyor

Conveying technology: Screw conveyors made of stainless steel

- Configurable for any biogas plant and for retrofitting of existing plants
- In a durable stainless steel construction with a Ø350 mm or Ø450 mm thread
- Reliable drive unit
- Linear transport capacity up to 100 cbm/h
- No corrosive wear of screw axle or jacket tube
- Use of any version due to customer-specific planning and production
- Suitable for all solid materials
- Used in large-scale systems for six years
- Screwed jacket tubes for easy access.

Switch cabinet with PLC controller:

- Control of the whole metering feeder with conveying technology
- Own automatic system for time- and weight-based metering
- Communication with other controllers via Profibus or analogue signal
- Manual operation of all drives without PLC
- Radio link for control from the filling vehicle

Installation and service:

- Erection and installation of the complete metering feeder
- Initial operation of the system and controller
- Spare part storage for quick availability
- Own installation teams for maintenance and repair of the systems

These products are of our own production:

- Solid material metering container
- Conveying technology such as screws, belts and product switches
- Switch cabinet with PLC
- Programming of the PLC controller