



SEDI-TANK

For DIGESTERS

Removes heavy particles from the liquid bio-material (glass, sand, etc.) and collects floating small packaging residues at the surface.

- All-stainless design
- Simple sanitation
- Automatic operation
- Low Maintenance design



Develop

- process solutions partnerships to find efficiencies on new or existing process.

Design

- machines for solids recovery, liquid clarification, and minimize water consumption.

Deliver

- project specific solutions for better economic, and environmental process performance.

Represented by:

TWISTER – ORGANICS, GRIT AND FLOATINGS REMOVAL

Twister provides an economical, contamination-free organics treatment. Its output is concentrated organic matter for anaerobic fermentation or a solid component for composting. The packaging material can be used for combustion or recycling. The liquid component can be subsequently cleaned in the SEDITANK device from glass fragments, sand and residual plastics and packaging material.

The input material for the Twister organics-separator is primarily unsorted municipal waste, SSO, bio-waste from catering, supermarkets and shops, spoiled vegetables (even in boxes of paper, plastic or wood), food with expired durability or defective batches, food and beverages in tetra-pack, cans or even in glass. For dry foods (e.g. biscuits), water is added to the separation or combined with other liquid or aqueous waste. When using the TWISTER organics separator, manual sorting and laborious unpacking of bio-waste from the packaging is avoided. After the twister, the processor obtains a separate organic portion in a pasty to liquid state and a solid waste material (food wrappers, plastic bags, fabrics, crushed boxes, etc.) which is incinerated or recycled.

The Twister stainless steel design allows easy machine sanitation and ensures long service life. The electric motors are IP 68, so the machine can be cleaned by a pressure washer. Worm gear drives are directly connected to gearmotors. The rotor made of wear-resistant steel blades is driven by toothed belts.

The machine is low-maintenance and only requires greasing. Thanks to the electric frequency drive, Twister has a low power

consumption.

The Twister has two screws in the hopper that are rotating against each other. The upper screw acts as a bag opener and prevents the formation of bridging of the inserted material in the hopper. The lower screw crushes the material and feeds it into a vertical drum with fine openings in the wall. In this drum, the rotor will melt the bio-waste as a blender. The rotating blades simultaneously form a whirlpool (TWISTER)effect that pushes the liquid to the pasty component through the openings in the wall of the drum. This material drains out of the drum or is pumped for further processing. The comminuted solid parts are routed in the drum by the rotor upward to the discharge screw. Due to the large centrifugal force here, the solid parts are almost free of water - they are only damp. If there is glass of packaging, sand, etc. in the input material, it is advantageous to include the Twister-SEDI-TANK in the production line. In the SEDITANK, heavy particles (glass, sand etc.) are removed from sedimentation bio-materials, and micro-particle floating material (e.g. small pieces of plastic packaging, etc.) is collected from the surface. These machines are an effective means of streamlining the operation of digesters, while at the same time enabling them to receive income even for disposal of waste.

Sales and service of these and other machines of Drycake are handled in the USA, Mexico and Canada by DRYCAKE directly.

DRYCAKE by Vanderbeken Enterprises Ltd.

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TWISTER ORGANICS SEPARATOR

The TWISTER handles unsorted municipal waste, SSO, bio-waste from catering, supermarkets and shops, spoiled vegetables (even in whole bottles - paper, plastic or wood), groceries or defective foods, food and beverages in tetra-pack, cans etc. The organic portion is obtained in a pasty to liquid state or a solid waste material. Due to the large centrifugal force, the solid parts of the outlet are only damp.



Various outputs Twister



Various inputs raw materials

- **No grinding or squeezing**
- Automatic operation
- Direct drive of the screws
- A second screw prevents the formation of bridging
- All-stainless design
- Simple sanitation
- Rotor with interchangeable blades made in Creusabro
- Low maintenance design
- Low power consumption
- VFD driven rotor in order to adapt to varying products

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