SULZER

Nordic Water

MevaGrit grit washers and classifiers

Main industries and applications

The MevaGrit washer and the MevaGrit classifier are designed to deliver efficient removal and separation of sand and mineral particles for municipal and industrial wastewater treatment plants.

MevaGrit solutions from Nordic Water are part of the range of wastewater processing equipment designed to optimize the performance of the headworks of water treatment plants. Based on years of experience from installations across the world, these grit handling systems are indispensable for sewage treatment plants as well as managing sand, bark and metal pollutants in paper mills.

MevaGrit washers and classifiers are available in a wide range of sizes, offering a compact solution for a variety of applications such as:

- Treatment of grit from wastewater treatment plants
- Grit recycling plants
- Separation of mineral particles within industry

How MevaGrit works

MevaGrit Washer provides efficient grit washing

The MevaGrit Washer is designed to dewater and to wash sand from sedimentation tanks. In traditional sedimentation tanks and grit separators, no controlled separation of organic and inorganic compounds takes place. As a result, the organic content of the material caught in the sedimentation tank often amounts to 30-80%.

MevaGrit Washers reduce the organic content in the sand to an end-product with an ignition loss of <5%, an internationally prescribed level.

MevaGrit Classifier –
the solution for grit removal

The MevaGrit Classifier provides the perfect solution for slurries and wet mixtures as it traps sedimentary particles and dewaters them before discharging them. Incoming slurry is led through the inlet into the sedimentation tank, where a continuous sedimentation process takes place. Water overflows through the outlet while sand settles at the bottom, where it is conveyed and dewatered by the discharge conveyor.

Features and benefits
MevaGrit washer

1 Long life agitator design
Bearing-less, self supported agitator, means fewer parts to maintain and provides a reliable function.

2 Shafted discharge screw for quick and easy maintenance
The discharge screw is supported by just one bearing at the end of the spiral, reducing the need for expensive wear liners and long maintenance operations.

3 Efficient wash water distribution
The internal wash water distributor design minimizes wash water consumption to <250 l for each wash cycle.

4 Clog-free inlet and outlet design
Eliminates the need for daily and weekly inspection.

Efficient operation
- Available in a variety of capacities up to 30 l/s
- Effective reduction of organic content.
  Ignition loss <5%
- Dry solids content >90%
- Reduced disposal costs

Features and benefits
MevaGrit classifier

1 Quick change wear liner
The wear liner is designed in a cassette which allows for fast replacement without the need for cutting and welding.

2 Long life spiral
Bearing-less, and self-supported spiral, means fewer parts to maintain and provides an equally low wear over the entire spiral length.
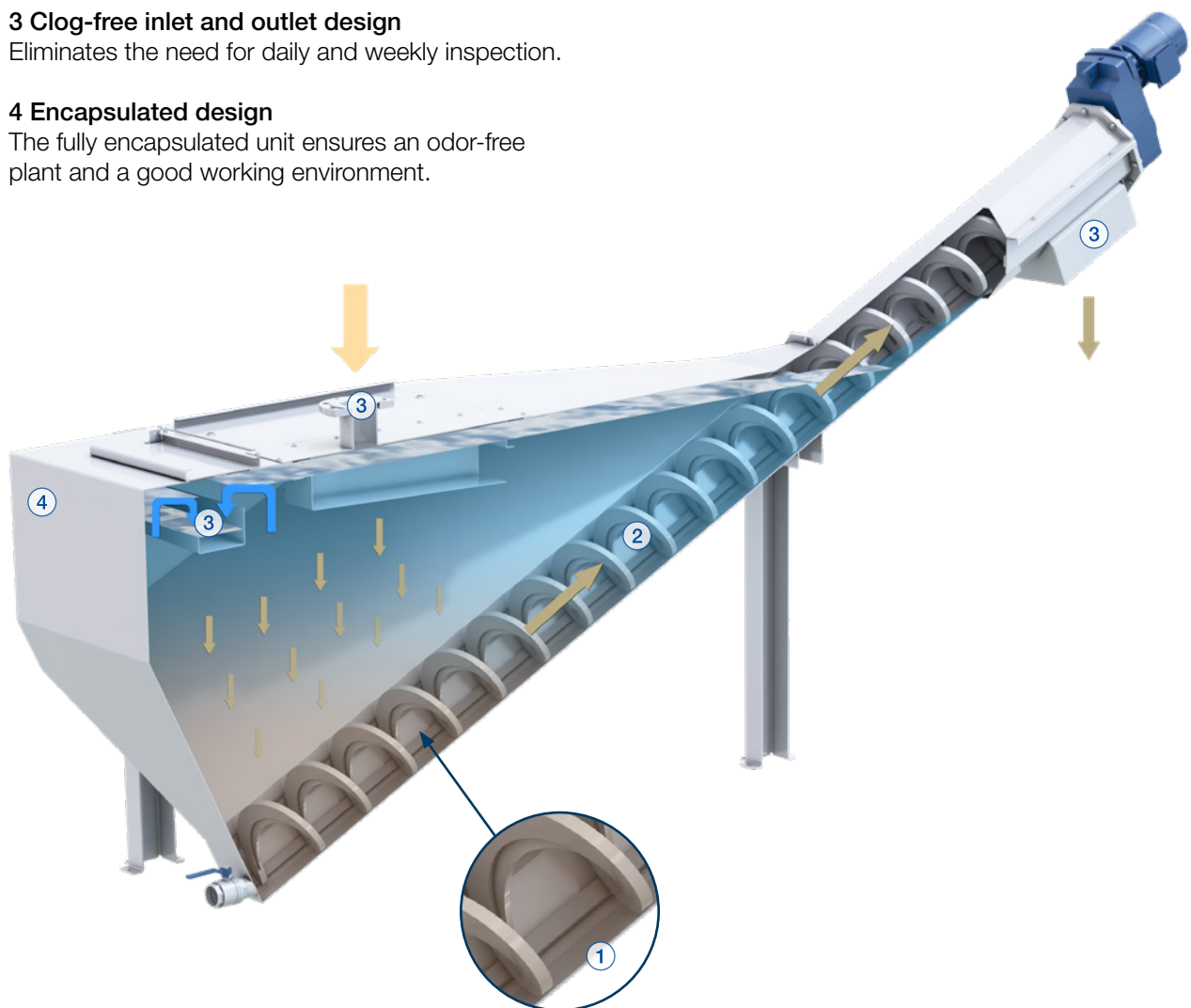
3 Clog-free inlet and outlet design
Eliminates the need for daily and weekly inspection.

4 Encapsulated design
The fully encapsulated unit ensures an odor-free plant and a good working environment.

Efficient operation
Dry solids content >90% decreases the disposal costs.

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The Flow division specializes in pumping solutions specifically engineered for the processes of our customers. We provide pumps, agitators, compressors, grinders, screens and filters developed through intensive research and development in fluid dynamics and advanced materials. We are a market leader in pumping solutions for water, oil and gas, power, chemicals and most industrial segments.