

ROTAMAT®

Grit Washing Plant RoSF 4/t



Grit Washing Plant for treatment of partly dewatered grit from wastewater treatment plants

- Less than 3 % organic content
- Very high solids content of > 90 %
- Easy to retrofit after existing grit classifiers
- Reduced disposal costs



➤➤ Design and function

Conventional grit separation

Conventional grit classifiers separate virtually all solids contained in the grit trap effluent. This classified and partly dewatered grit is usually more or less contaminated with organic particles.

Subsequent grit washing

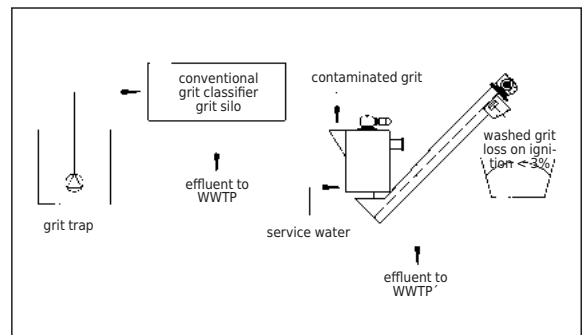
The classified grit is therefore further treated in the subsequent grit washing plant where the organics are separated from the mineral particles.

Due to a defined introduction of upwardly directed service water the grit situated in the lower part of the RoSF 4/t Grit Washing Plant will be fluidised in flow, i.e. a grit fluidised bed is generated. Within this fluidised bed the lighter organic particles are separated from the dense grit particles, independent of the particle size. This process is supported by the central stirrer keeping the particles in motion. After removal of the organic material the clean grit is removed through a classifying screw, statically dewatered and discharged into a container.

The removed organics are automatically discharged with the introduced wash water.

➤➤ The user's benefits

- Treatment of partly dewatered grit from wastewater treatment plants
- Plant sizes available for 0.1 – 3.0 m³ solids per hour
- Organic content reduction to < 3% loss on ignition
- Dewatering of washed grit to approx. 90 % dry residue
- For installation subsequent to grit classifiers, complete plants, circular grit traps
- Grit removal screw supported on both ends
- Completely made of stainless steel
- Maximum corrosion protection through acid treatment in a pickling bath



Flow diagram



The RoSF 4/t Grit Washing Plant washes the classified grit from a HUBER Circular Grit Trap HRSF



A small Grit Washing Plant RoSF 4/tC washing the classified grit from a ROTAMAT® Complete Plant Ro 5

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Subject to technical modification

HUBER
Grit Washing Plant
RoSF 4/t