

HUBER Grit Treatment System RoSF5 HP



Treatment of grit from wastewater treatment plants
and sewer systems

- Loss on ignition of the grit/gravel fraction < 3%
- Coarse material separation size of 35 mm
- Massive vibrating grate
- Reduced disposal costs

►► Design and function

The sewer cleaning truck tips the full load (grit from the sewer system and STP) into the underground storage tank. The solid and easy-to-clean vibrating grate covers the tank and retains the coarse material < 35 mm which is then manually discharged into a sink trap.

A horizontal screw conveyor transports the raw material into a pump sump. Sufficient transport water (screened wastewater) is added to the raw material portions in the pump sump to create a pumpable mixture.

A level-controlled submersible pump delivers the grit/organics/water mixture from the pump sump into the HUBER Coanda Grit Washer RoSF4.

Also the existing pump in the grit trap conveys grit into the Grit Washing Plant where mineral particles are separated and washed to obtain fractions of washed grit/gravel and coarse material.

►► The user's benefits

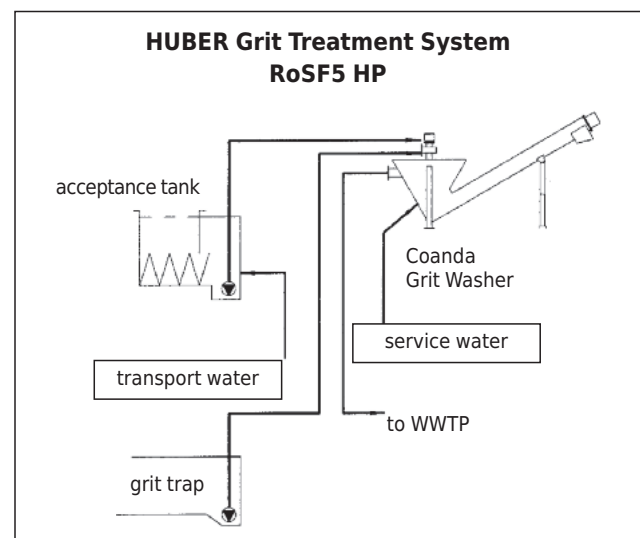
- Massive, inclined vibrating grate with integrated bar rack for coarse material removal via tank
- Processing of the liquid and solid phase possible
- Up to 50 m distance possible between the tank and HUBER Coanda Grit Washer RoSF4
- Reduction of organics in the grit/gravel fraction to < 3% loss on ignition
- > 95% capture rate of 0.20 – 0.25 mm diameter grit particles
- Maximum minerals yield due to 35 mm coarse material separation size
- Reduced disposal costs
- High corrosion resistance
- Low investment costs



Long distances between the tank and Grit Washer are no problem.



Tanker vehicle discharging onto the vibrating grate



Schematic diagram of the HUBER Grit Treatment System RoSF5 HP

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