

SCREW PUMPS

SCREENS

SCREENINGS HANDLING

COMBINATED SYSTEMS

GRIT HANDLING

CONVEYOR

ELECTRICAL- and AUTOMATION TECHNOLOGY

MEASUREMENT and CONTROL TECHNOLOGY

SERVICE SUPPORT

# GRIT WASHER KSW-S/RW

## Treatment of Grit Chamber Sediments

### KUHN KSW-S/RW Grit Washer and Separating Machine

Sediment, composed of a mixture of organic sludge, solid matter of various types and mineral grit, builds up in sewer systems and grit chambers. The **KUHN** KSW-S/RW grit washer and separating machine separates sediment into organic solid matter and mineral grit parts, enabling separate disposal.

The mineral grit is washed in a manner compliant with legislation for dumping waste quality standards. Due to the continuously moving grit bed the organic content is discharged by wash water flushing and fed once again to the clarification process.

The advanced functionality of the **KUHN** KSW-S/RW grit washer and separating machine facilitates a continuous, systematic separation of the material flow into heavy mineral components and lighter, predominantly organic matter. The sedimentation tank, having an optimal large-volume design, guarantees a high separation capacity, even with varying supply volumes and solid-matter ratios.

The **KUHN** KSW-S/RW grit washer and separating machine is predominantly used for the treatment of sediment from aerated municipal grit chambers. Optimal industrial solutions can also be achieved by customising to the special KSW-T/RW construction. This construction allows "dry" loading of bulk material, via conveyor, from silos, screw classifiers or compact systems. Municipal as well as industrial problems can be solved perfectly.

### Technical Features

- Organic content reduction to  $\leq 3\%$  loss on ignition
- Filtration efficiency of 95% with particle size 0,2mm
- > 90% concentration of discharged grit dry substance
- Low operating costs
- Very large tank volume for highest filtration efficiency of fine and super-fine grits
- No lower bearing for the grit discharge screw
- Adjustable positioning of the inlets and outlets including the discharge screw
- Easy to maintain (all parts are removable and easy to access: screwed or flanged)
- Three leg supports for free standing sediment tank
- Fully comprehensive displays
- Vortex mixer machine with special bearing unit for extra supports



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