

SCREW PUMPS

**SCREENS**

SCREENINGS HANDLING

COMBINATED SYSTEMS

GRIT HANDLING

CONVEYOR

ELECTRICAL- and AUTOMATION TECHNOLOGY

MEASUREMENT and CONTROL TECHNOLOGY

SERVICE SUPPORT

# DRUM SCREEN KST

Very fine screening of solids from liquids

## KUHN KST Drum Screens

do justice to the ever-changing developments and expectations of modern wastewater treatment plant equipment. The hole diameter of the very fine drum screen inside the machine can be adjusted individually. This allows particulate in raw wastewater to be reliably separated out under stable operating conditions.

The wastewater is pumped into the drum screen by a pressure line located inside the stainless-steel machine housing. The water flows from the inside to the outside through the screen cover holes into the machine housing. Solids are trapped inside the screen cover and settle to the bottom there. This raises the filling inside the screen drum.

Once the level reaches a certain height, the drum begins to rotate. Curved bars inside the drum transport the solids into the upper section of the screening drum. At the topmost point of the outside of the screen cover is a spray nozzle which causes the solids to settle to the bottom of the screenings catch basin. In addition, an adjustable brush strip is permanently installed. The automatic change in the drum's rotational direction prolongs brush strip service life, prevents clogging and felting, and ensures ideal cleaning of the screen drum. The fixed brush strip together with alternating rotational direction make the system clearly superior to comparable brush rollers in terms of cost, sustainability and ease of maintenance.

Thanks to the unique construction of the **KUHN** screen drums, a much higher filling level can be achieved that leads to a larger effective screen surface area. Compared to other solutions, this results in a substantial increase in throughput.

By means of an outflow channel, the cleaned-off solids are flushed from the screening drum via a channel and conveyed for downstream processing, for example, to one of our **KUHN** KWP pressure washers.



## Technical Features

Kuhn KST Screen Drums offer the following benefits:

- Very fine screening down to 1mm hole size possible
- The hole width can be adjusted individually
- A high degree of filling increases the effective filter surface area
- High throughput rates possible
- The position of the drainage nozzle can be specified by the customer
- The KUHN standard: highly stable, corrosion-resistant components
- Safe cleaning of the screen cover by the spray nozzle strip and brush strip
- Optimized rinsing water consumption
- Automatic change in rotational direction
- Odor and hygienic encapsulation of the entire machine
- A modular design for outstanding accessibility
- Easy replacement of individual components



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