

SCREW PUMPS

**SCREENS**

SCREENINGS HANDLING

COMBINATED SYSTEMS

GRIT HANDLING

CONVEYOR

ELECTRICAL- and AUTOMATION TECHNOLOGY

MEASUREMENT and CONTROL TECHNOLOGY

SERVICE SUPPORT

## STEP SCREEN KSR

### Separates Solid Matter from Liquids

#### KUHN KSR Step Screen

represent a generation of fine screen filters which conform to state-of-the-art technological standards, both in production and on-site operation. Fault-free operation, a long service life, less maintenance and simple integration in existing plants are just some of the positive features that we can guarantee for this type of machine.

The stainless-steel fine screens are predominantly used in the preliminary treatment stage of municipal and industrial sewage treatment plants. These step screens are also used in other areas, such as in the pretreatment of processing liquids (abattoirs, tanneries, fish processing plants, and similar) as well as in treatment plants of the paper industry.

The moving lamellas perform a self-cleaning rotational movement across the entire screen surface, according to the counter-flow principle. Consequently, no brushes, scrapers or additional rinsing devices are required for purification. Solid matter is caught by the step-like screening surface. During intermittent operation, a screenings mat is formed and this is responsible for the main filtration. With this mat, solid matter that is very small in relation to the selected lamella gap width can also be caught. Due to the action of the moving lamella screen, the screenings mat is conveyed step by step.

#### Technical Features

The **KUHN** KSR offers these outstanding benefits:

- Maximum throughput and separation capacities, small hydraulic height loss
- Gap width: 1 – 6 mm
- Lamella thickness (2mm or 3mm)
- Screen grid with largest effective grid width in the world available
- Self-cleaning screen surface
  - No brushes or scrapers
  - No additional washing water required
- Heavy duty screen frame made of folded profiles with optimised strength characteristics
- Gear motor acting as drive unit enclosed in separate housing (providing protection against aggressive and damp sewage vapours)
- Chain drive unit with automatic tensioning device
- Drive unit and bearings are generally situated above the waterline
- Removable covers for hygienic enclosure above the channel
- Simple retrofitting for existing structures
- Simple maintenance
- Quiet running due to special bearing design
- No fastening at the base area required
- Machine can be pivoted out of the channel



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**Automatic chain lubrication (optional)**

**Lifting lug**

**Hygienic covers, removable**

Guarantee complete odor and hygienic encapsulation

**Bearing assembly**

- Located above the water line
- Quiet running

**Flexible gasket**

For screening between channel wall and machine frame

**Drive with overload protection**

- Completely encapsulated
- Optional: two rotational speeds for fast screenings output

**Discharge hopper**

Simple and safe transfer of screenings

**Cropped support leg**

For pivoting out of the channel

**Screening surface**

- Gap width selectable (1-6mm)
- Lamella thickness (2 or 3mm)
- Step design (doubled filtration area)
- World wide biggest effective sieve screen width possible
- Transport area without gab (screenings cannot pass)
- Doubled lamellas at the bottom

