

## COMPACT SYSTEM

# KOPA

### Complete Mechanical Purification of Sewage in one Machine

#### KUHN KOPA Compact System

In the **KUHN** KOPA compact system, all of the procedural steps for the mechanical purification of sewage are integrated in a stainless steel tank. The entire structure has a very robust design and is notably constructed for the demanding conditions for operating the clarifying machines. **KUHN**'s many years of experience in processing stainless steel comes into its own.

The sewage first passes through a step screen and a downstreamed washing press or through a spiral screen. It gets cleaned of all swimming and floating material according to the gap or sieve width. The screenings are discharged, deposited, washed and pressed. The dewatered and pressed screenings or siftings, as appropriate, are deposited in a skip. The wash and pressure water is fed back into the sewage flow. Important contents for the treatment process thereby remain preserved. The screenings or siftings are reduced in volume by about 60% and in weight by about 50%, as a result of the pressing. This implies an enormous reduction in the disposal costs.

The capture of grit and grease (in chambers) follows immediately afterwards, in compliance with the DWA (German Association for Water Management, Wastewater and Waste) guidelines. Screenings and grit are disposed separately. Optional our grit discharge screw can be combined with a following grit washer KSW-T, to treat the grit according to the requirements for depositing or recycling. The machine can naturally also be operated without grit chamber aeration or without a grease chamber, if the demands on the quality of the separated matter are not so high or the grease chamber can be built separately.

The machine is automatically controlled. The control of the screen unit is dependent on the water level, whereas the control of the grit discharge is time-dependent. An emergency bypass in the incident of power failure can be guaranteed either by installing a bypass circuit around the entire unit or integrating an internal emergency overflow into the screen chamber.



#### Technical Features

- Complete mechanical purification of the sewage can be realised by a single machine (all in one)
- Low maintenance requirements, high degree of operating safety
- Good purchase price and low operating costs
- Washing of screenings and grit can be integrated without any problems. Due to the decrease in volume, the decrease in weight of the screenings and the increase in purity of the grit, the disposal costs are reduced
- A complete enclosing of the machine is possible, troublesome odours can thereby be avoided
- The removal of the suspended and swimming matter takes place in a closed system
- Low installation requirements, small timespan for installation
- High resistance to corrosion of the machine due to the application of stainless steel
- Compact, space-saving design, consequently low building costs
- High separation capacity of the **KUHN** KSR step screen and **KUHN** KSS spiral screen
- Superior design of all machine parts due to the longtime experience of the **KUHN** company in processing stainless steel
- Sophisticated machine components



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