



PWL Helixsieve HXS

Efficient Fine Screening for Mechanical Cleaning of Wastewater

- Sieving, conveying and dewatering in one system
- For installation in channel or available as unit in tank
- Wedgewire openings from 0.5 mm to 3 mm
- Perforation from 1 mm to 6 mm
- Self-cleaning operation
- Easy maintenance due to swivelling-out mechanism
- Operation without spray water possible
- Suitable as septic sludge receiving station
- Materials: stainless steel AISI 304 or AISI 316 Ti/L

Application

Fine screen for mechanical treatment of wastewater from small and medium sized WWTPs and some industrial branches. For installation in channel or tank. The PWL Helixsieve HXS can be deployed as septic sludge receiving station, as well.

Description

The PWL Helixsieve HXS provides for pre-treatment of wastewater and liquids contaminated with coarse and fibrous solids. They are separated from the liquid, conveyed from the sieving area and dewatered at the same time.

Function

The wastewater passes the sieve basket. The coarse and fibrous materials are retained at the wedgewire resp. perforated sieve. As soon as a specified water level is reached the solids are transported by a rotating, shaftless spiral via the conveying area to the compaction zone, dewatered and, finally, discharged. During the discharge operation the brushes fixed to the spiral are cleaning the sieve.

Design

The sieve casing consists either of a perforated screen or a wedgewire basket. The conveying area is designed as a „U“-trough with bolted cover or as a closed pipe in case of the tank version. The spiral moves at the bottom on changeable wear rails. The cylindrical compaction zone is directly mounted to the conveying area by a flange connection.

The spiral sieve can be swivelled out. Thus, for maintenance purposes it can be easily uplifted from the liquid.

Your Benefit

- sieving, conveying and dewatering in one system
- high capacity
- small footprint
- hygienic wastewater sieving and residuals dewatering
- low wear twin brush
- conveying area in „U“-trough version for easy maintenance
- very easy to maintain
- installation angle up to 45°
- channel widths starting from 250 mm



Options

- level control
- working without use of spray water with compaction zone system „S“
- hygienic packing with single bags or endless tube cartridge
- torque guard