



STRAIGHT SCREW SCREEN

THE BEST SOLUTION,
IF YOU THINK ABOUT
CLEAN WATER



ALL
FOR
WATER

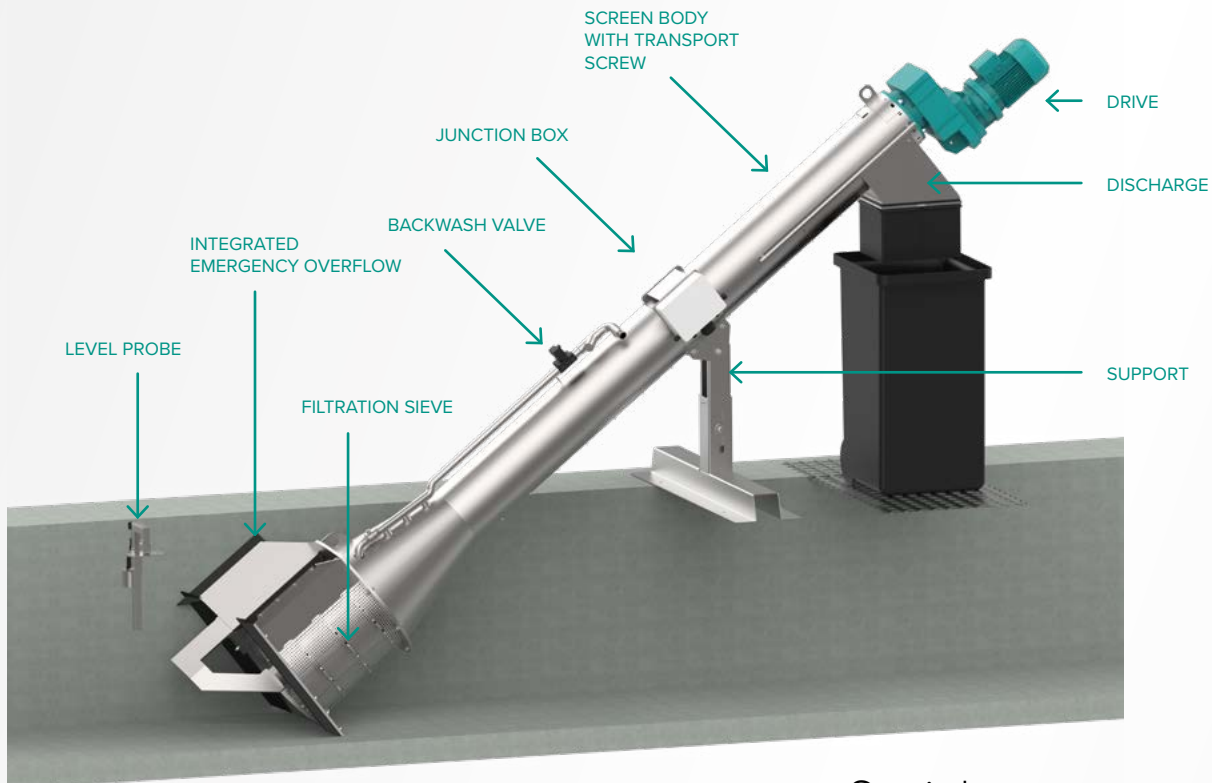
IN-EKO[®]
TEAM

CSP – a reliable solution for fine wastewater pre-treatment

The Straight Screw Screen is designed for pre-treatment of wastewater, aiming to remove solid impurities larger than 3 mm or 6 mm.

The screen design offers a reliable performance with small maintenance and easy operation. The device can be used for small and medium

municipal wastewater treatment plants as well as for pre-treatment of some industrial wastewater. This device is also used on cruise ships.



Straight Screw Screen series

Channel width (mm):
300, 400, 500, 600

Design and properties of the Straight Screw Screen

- Automatic control with respect of the quantity of the incoming waste water and suspended solids
- Presence of integrated emergency overflow bypass
- The bottom part of the stainless steel screw is equipped with a bearing high-resistant to abrasion and easily replaceable
- Positioning of the screen into the horizontal position for maintenance/service works
- Controlled by timer or level probe
- Reliable and simple device construction
- Made of stainless steel AISI 304 / AISI 316

Optional accessories

- Variant in a steel tank for pipe connection
- Cover for odour elimination
- Insulation and heating
- Integrated press for dewatering and compacting the screenings

How does it work?

The Straight Screw Screen is a separation device, designed to remove and dewater screenings contained in the water. Raw water with floating particles flows into the inner space of the screen, where it passes through a stainless steel perforated screen, which separates screenings larger than the openings in the

screen. The screen traps the screenings gradually, which raises the water level at the inlet to the screen. Once the switch-on level is reached, the probe is activated and the screen starts automatically. The screenings are conveyed by turning motion of the screw to the discharge, where they are released into a bin/

container. The conveyor screw is equipped with a wiper brush at the filter sieve for efficient cleaning of the screen. Filtered water, free from floating solids larger than the openings, flows to the next treatment level.



✓ The right choice

When choosing the optimum Straight Screw Screen unit size, the most important parameter is the maximal flow (Q_{max}) through the unit. Another parameter is the opening size of the screen, which must be selected according to the size of the solids to be removed.

The operation of the Straight Screw Screen can be controlled by an electrical switchboard either in an economic version equipped with a time relay or in a higher class using a PLC, which allows advanced settings and control options.

+ Benefits for customers

- High level of variability in installations
- High efficiency in capturing fibrous material
- Own emergency overflow bypass
- Easy installation
- Simple design ensuring reliable and cost-saving operation
- Easy maintenance due to the possibility of tilting the screens to a horizontal position
- Tailor-made device manufacturing
- Energy savings and reducing wear and tear on parts due to timer or level probe control
- Small footprint
- The device can be put into the operation immediately after its installation

Information about other devices in our complete product line of wastewater pre-treatment and microfiltration can be found at www.in-eko.com.

You can contact us by phone, email or in person.



IN-EKO TEAM s.r.o. has specialized in the production of filtration and wastewater treatment units since 1995.