

HUBER Perforated Plate Screen RPPS

THE ORIGINAL
ROTAMAT®!!!



Screening, washing, conveying, compacting,
and dewatering of solids in a single unit.



➤➤ Introduction

The first step of wastewater treatment in municipal or industrial applications is mechanical separation of floating and suspended material that could clog pumps and impair subsequent treatment processes. Equipment reliability and effectiveness, low maintenance and hygienic operation are the most important factors when a mechanical pretreatment system selecting.

The HUBER Perforated Plate Screen (RPPS) performs screening, washing, conveying, compaction and dewatering of solids in a single unit. Depending on the

perforation diameter ($\frac{1}{8}$ " or $\frac{1}{4}$ ") and drum diameter (up to 9'-10") flows of up to 25 MGD can be treated with a single screen.

The HUBER Perforated Plate Screen is completely made of stainless steel and passivated in a pickling bath. It can be installed directly into a channel or in a separate container. Its single pass design guarantees easy cleaning and low head loss.

➤➤ Function

The HUBER Perforated Plate Screen is installed in a channel or container with an inclination of 35°. Wastewater flows into the plate screen through its open front end and out through the perforations of the screening drum. Floating and suspended materials larger than the perforations are effectively retained.

The head loss increases as more and more screenings are retained in the screening drum. When the upstream water level reaches a certain height, the drum begins to rotate. Cleaned perforations are rotated into the flow and retained screenings are rotated out of the flow. Any screenings that are not flushed by spray water into a collection trough are removed by a nylon scrubbing brush.



➤➤ Integrated Screenings Washing

The collection trough is equipped with a screw conveyor driving the screenings upwards through a rising pipe and out of the channel. If desired, an integrated washing system can be provided. Washing of the organic material from the screenings begins in the collection trough and continues in the lower section of the rising pipe. The integrated washing system removes organic components from inert material and improves

the carbon nitrogen ratio of the screened wastewater. By almost complete removal of fecal matter from the screenings, a considerable reduction of weight and odor of the screenings is achieved. The screw conveyor also performs dewatering and compaction of the screenings and discharges them into a container or bagging system. The discharged screenings have a dry solids content of up to 40% DS.

➤➤ The RPPS Provides:

- Best value
- Easy retrofits
- Minimal disposal costs
- Hygienic operation
- Virtually complete removal of fecal matter
- Weight reduction by about 50%

► Advantages of the HUBER Perforated Plate Screen

1) High Separation Efficiency

Optimal sizing of the perforations permits both excellent separation efficiency and high flow capacity.

2) Low Head Loss

The drum's shape and inclination provide significantly more screening area than vertical screens, resulting in low head loss even at maximum flow.

3) Stainless Steel Fabrication

The unit is completely made of stainless steel and treated in a pickling bath for optimal corrosion protection.

4) No By-Passing

Water enters the screen drum at its open front end and can only leave by flowing through its perforations. This guarantees that all screenings remain inside the drum and cannot by-pass the unit even at peak flow and load.

5) Multi-Functional Design

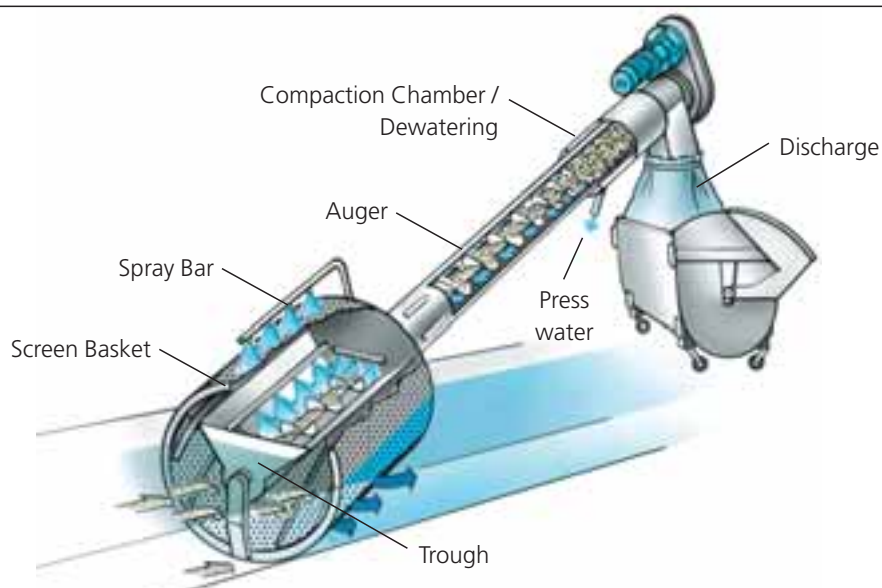
The HUBER Perforated Plate Screen performs several functions in a single compact unit: removal of screenings; transport; washing; dewatering; and compaction. With an additional bagging system odor nuisance is eliminated.

6) Outdoor Installation

With heat tracing and thermal insulation the HUBER Perforated Plate Screen is made frost-proof.

7) Retrofits

The ROTAMAT® can be upgraded easily. Starting with a basic installation, heating and integrated screenings washing can be retrofitted. Its perforated drum can be exchanged.



➤➤ The Liquid / Solids Separation Specialists



ROTAMAT® Micro Strainer Ro 9
For fine material separation from industrial process water or for mechanical wastewater treatment in small wastewater plants. Screenings are removed and dewatered to 40% DS.



STEP SCREEN®
The STEP SCREEN® is a well-proven fine screen for water, wastewater and industrial effluent. Variable installation angles permit installation into almost any channel.



Wash & Press WAP
Washing, compaction/dewatering and conveying of screenings with volume and weight reductions of up to 70%.



Grit Washer RoSF 4
Reduces the organic content in the grit to below 3%.



ROTAMAT® Pump Station Screen RoK 4
This screening unit for use in deep pump wells also provides screenings dewatering to 40% DS.



ROTAMAT® Stormwater Screen RoK 1
Removes solids larger than 1/4" in CSO's. Units are available to handle flows from 1 MGD - 240 MGD!

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Subject to technical modification

HUBER
Perforated Plate
Screen RPPS