Reliable and well-proven inlet screen for municipal sewage treatment plants and industrial wastewater and process water screening

- fine screen with wedge wire (Ro2), perforated plate (RPPS) or folded perforated plate (STAR)
- with integrated screenings press and screenings washing
- more than 2,000 installations worldwide

The HUBER ROTAMAT® Rotary Drum Fine Screen / Perforated Plate Screen operation is based upon a unique system that allows combination of screening, washing, transport, compaction and dewatering in a single unit.

**Model variations**

- **Ro2: Wedge wire screen ≥ 0.5 mm**
  Depending on the screen bar spacing (0.5 - 6 mm) and screen size (screen basket diameter of up to 3000 mm), the throughput can be individually adjusted to specific site requirements.

- **RPPS: Perforated plate screen basket ≥ 1.5 mm**
  Compared to one-dimensional wedge wire screens, the two-dimensional screening element of the Rotary Drum Fine Screen ROTAMAT® RPPS achieves a significantly higher separation efficiency.

- **STAR: Folded perforated plate screen basket ≥ 1.0 mm**
ADVANTAGES OF HUBER ROTAMAT® SCREENS

a) Low headloss – High separation efficiency
Due to the drum's shape and 35° installation the screen area is much larger than that of a vertical or steeply inclined screen, which results in a low headloss, high separation efficiency and maximum throughput.

b) Completely made of stainless steel
The machine is completely made of stainless steel and pickled in an acid bath which eliminates corrosion and thus reduces maintenance.

c) No by-passing
The entire flow enters the screen drum through its open front end and can only leave the drum through its screen area. This prevents plant overflow and guarantees that the screenings are always retained within the screen drum.

d) Several functions combined in one system
The ROTAMAT® Screens perform the functions of screenings removal, transport, washing, dewatering and compaction in a single spacesaving unit. An additional bagging unit guarantees operation of the entire system without odour nuisance.

e) Outdoor installation
For frost-proof outdoor installation, ROTAMAT® Screens can be supplied with a heating wire and thermal insulation.

f) Retrofitting
The design of the ROTAMAT® Screens allows for later modification so that the systems can be adapted to changing requirements. The heating and/or integrated screenings washing can be retrofitted. The bar spacing can also be reduced to meet more stringent requirements.

g) Low maintenance
No lubrication. Regular checking and visual inspection are sufficient.
Case Studies

- HUBER’s Perforated Plate Fine Screen Brings STAR Power to Star Water and Sewer District
- Reliable protection of membrane plants with HUBER Perforated Plate Screen ROTAMAT® STAR liquid
- Successful operation of ROTAMAT® Star liquid screens with folded perforated plate in Tarbes Ouest, France
- Economy of space in existing structures – STP St. Oswald in Austria
- Further development of the well-proven ROTAMAT® screen concept: new Pro line
- Further developed ROTAMAT® Rotary Drum Fine Screen with increased hydraulic capacity: ROTAMAT® Perforated Plate Screen RPPS-Star
- HUBER products for Europe’s biggest slaughterhouse
- A complete wastewater treatment concept for a meat processing company
- Successful HUBER overall concept for beverage industry in Croatia
- Mechanical wastewater treatment for marine outfalls
- HUBER Supplies Complete Wastewater Treatment Equipment for Meat Processor KUPFER
- Modernized Wastewater Pre-Treatment at Bulgarian Paper Mill
- State-of-the-art HUBER Wastewater solution for Europe’s largest slaughterhouse
- New screens for the Lisbon wastewater treatment plant

Design Sketch

Principal sketch

The different Rotary Drum Fine Screen and Perforated Plate models: ROTAMAT® Ro2 / RPPS / STAR

Media
More products of this group: ROTAMAT® Screens

- HUBER Fine Screen ROTAMAT® Ro1
- HUBER Micro Strainer ROTAMAT® Ro9
- HUBER Complete Plant ROTAMAT® Ro5
- HUBER Complete Plant Hydro Duct ROTAMAT® Ro5 HD
- HUBER Coanda Complete Plant ROTAMAT® Ro5 C
- HUBER Membrane Screen ROTAMAT® RoMem
- HUBER Pumping Stations Screen ROTAMAT® RoK4