HUBER TECHNOLOGY
WASTE WATER Solutions

Ultra Fine Screens

Ultra-fine screens for new applications

Our development of extremely fine screens for the separation of very fine particles permits new wastewater treatment applications for screens. Reliable separation of hair and fibrous material is necessary for efficient performance of membrane bioreactors.

Another application for ultra-fine screens is river and sea outfalls. Reduction of the COD/BOD loads from such outfalls is becoming more and more important for the protection of the receiving water bodies.

These ultra-fine screens are able to remove undegradable and degradable, inorganic and organic material at the same time. Improved environmental protection is achieved by application of this new technology at reasonable costs.

Chemical precipitation, coagulation and/or flocculation can be added for further improvement of the screening efficiency. Addition of such chemicals converts dissolved substance and colloidal particles into separable aggregates that can be removed. Suspended solids can be reduced by up to 95%, COD/BOD by up to 65% and phosphorus by up to 60%.

For many regions with insufficient wastewater treatment, if any at all, ultra-fine screening is a quick and affordable first step in the right direction.

- HUBER Membrane Screen ROTAMAT® RoMem
- HUBER Drum Screen RoMesh®
- HUBER Drum Screen LIQUID

- HUBER Disc Filter RoDisc®

Downloads

Brochure: ROTAMAT® Membrane Screen RoMem [pdf, 926 KB]
Further information

Brochure: ROTAMAT® Rotary Drum Screen RoMesh® [pdf, 604 KB]
Further information

Brochure: HUBER Disc Filter RoDisc® [pdf, 878 KB]
Further information

Brochure: HUBER Drum Screen LIQUID [pdf, 1130 KB]
Further information

Offprint: Fine screening – the cost-effective alternative to primary settlement tanks [pdf, 234 KB]
Brochure: COD/BOD Reduction with ROTAMAT® Fine and Micro Screens [pdf, 1852 KB]

Case Studies

- Reliable protection of membrane plants with HUBER Perforated Plate Screen ROTAMAT® STAR liquid
- RoDisc® Rotary Mesh Screen for a drinking water application
- HUBER RoDisc® Rotary Mesh Screen improves effluent quality on WWTP Altötting, Bavaria
- Further developed ROTAMAT® Rotary Drum Fine Screen with increased hydraulic capacity: ROTAMAT® Perforated Plate Screen RPPS-Star
- Mechanical wastewater pre-treatment for membrane bioreactors
- HUBER RoDisc® Rotary Mesh Screen ready for the future
- 28 RoDisc® Rotary Mesh Screens to treat Asia Olympics wastewater
- Removal of micropollutants with RoDisc® Rotary Mesh Screen combined with powdered active carbon
- Fine screening – the cost-effective alternative to primary settlement tanks

Benefits

All ROTAMAT® Machines offer outstanding advantages

- The rotating operation principle reduces wear to a minimum.
- Integrated screenings press, no odour annoyance, low disposal costs
- Optional integrated screenings washing reduces disposal costs.
- Installation directly into the channel without a step in the channel bottom possible.
- Easy retrofitting
- Insensitive to grit, gravel, stones
- Completely made of stainless steel
- Minimum maintenance as the screens do not have reciprocating parts or reversal points
- High separation efficiency through flow diversion
- Low hydraulic resistance through the big free passage area
- Self-cleaning machine and screen basket

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