

HUBER Drum Screen RoMesh®



- Removal of fibres and hair
- Service water and wash water treatment
- Defined separation size
- COD and BOD removal in river or sea outfall applications
- Protection of membrane filtration plants

►► The situation

Separation of hair, fibres and fine suspended material from municipal and industrial wastewaters is in many applications essential for trouble-free and low-maintenance operation of subsequent treatment stages. Fine mesh screens are required to remove such materials.

Wastewater treatment at source is necessary for many industrial installations to meet the requirements for wastewater discharge into sewer systems. Since wastewater fees depend on the freight discharged it is economically beneficial to minimise the freight by using a fine mesh screen for wastewater treatment at source.

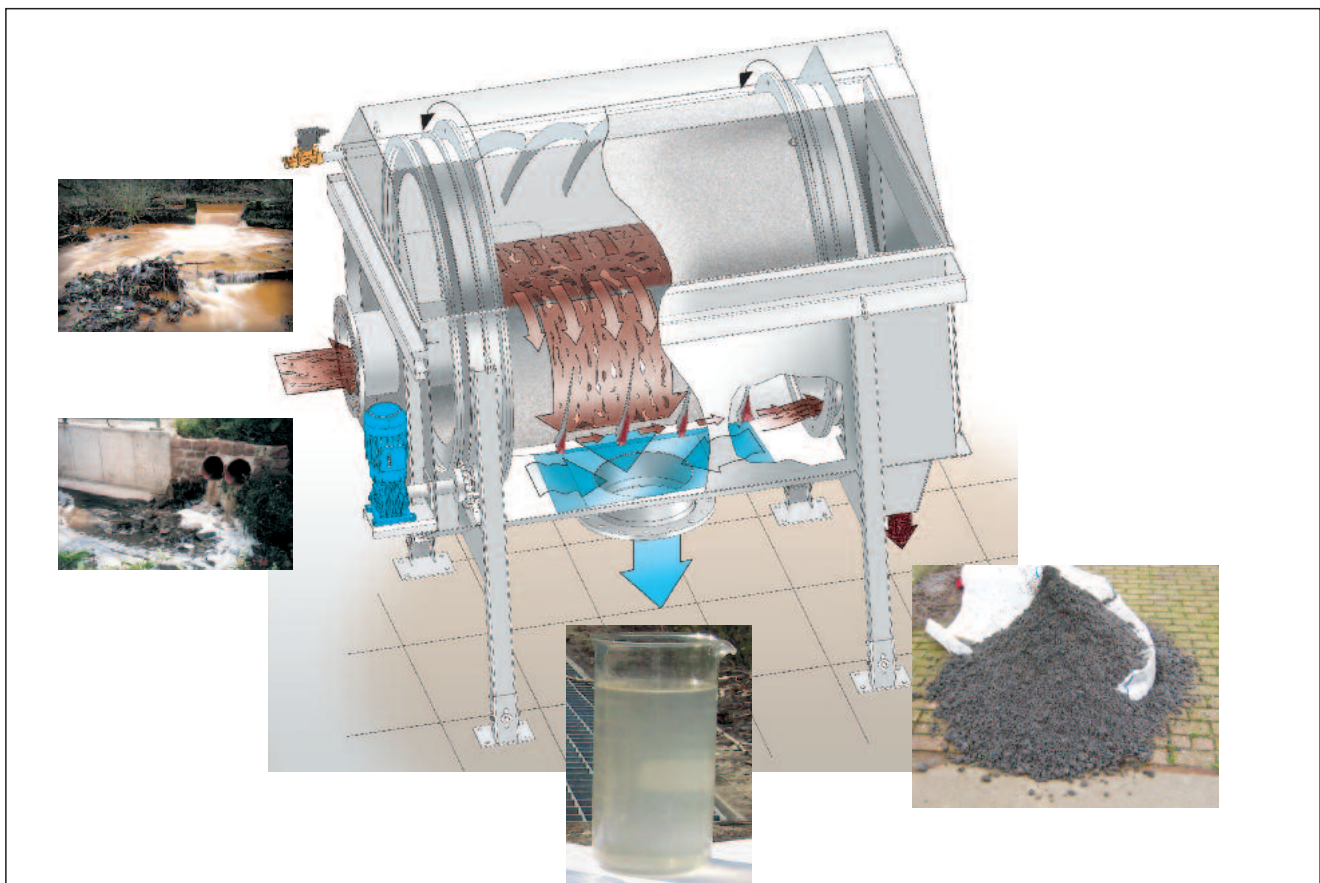
►► Our solution

The HUBER Drum Screen RoMesh® consists of a horizontal screen basket equipped with a fine square mesh (0.2 to 1 mm mesh size) or a perforated plate (2 to 3 mm perforation). Due to the two-dimensional effect of the mesh or perforated plate the screen removes very fine particulate material.

►► Design and function

The wastewater flows from inside to outside the basket through the screen surface. Filtrate is discharged vertically from the bottom of the drum and the screenings are transported horizontally by the rotation of the screen. Filtrate is discharged vertically from the bottom of the drum and the screenings are transported horizontally by the rotation of the screen towards the discharge point. The discharged screenings are usually dewatered in a downstream screenings press. A spray bar with alternately operating spray nozzles cleans the screen surface while the drum rotates. The screened wastewater can be reused as wash water if a sufficiently fine mesh is used.

square mesh [mm]			
0.2	0.5	0.75	1
perforated plate [mm]			
2	3		



Schematic drawing of the HUBER Drum Screen RoMesh®

Treatment of industrial process water

Mechanical wastewater pre-treatment is necessary to meet the requirements for wastewater to be discharged to sewer systems. Since wastewater fees depend on the freight discharged it is economically beneficial to minimise the freight at source. The HUBER Drum Screen RoMesh® with its square mesh for high capture rates is designed specifically for this application.

A selection of the variety of applications in industries:

- Paper and pulp industry: separation of fine fibres
- Meat processing industry: separation of scraps
- Agricultural industry: separation of fruit and peel residues
- Breweries: mechanical preliminary treatment of all process waters
- Laundries: separation of fibres from wash waters

➤➤ The benefits of the HUBER Drum Screen RoMesh®

- Excellent separation efficiency due to the defined separation size provided by the square mesh
- Significant reduction of COD and BOD in river or sea outfall applications
- Protection of downstream treatment stages , e.g. MBR plants, through removal of hair and fibres
- High-pressure washing at 120 bar eliminates blocking of the square mesh
- Small footprint requirements due to the enclosed, compact design
- Reduced wastewater discharge fees through freight reduction



HUBER Drum Screen RoMesh® for optimal separation of very fine particles



Installation of a HUBER Drum Screen RoMesh® for industrial wastewater treatment

HUBER SE

Industriepark Erasbach A1 · D-92334 Berching
Phone: + 49 - 84 62 - 201 - 0 · Fax: + 49 - 84 62 - 201 - 810
info@huber.de · Internet: www.huber.de

Subject to technical modification
0,15 / 7 - 5.2016 - 8.2004

HUBER Drum Screen RoMesh®