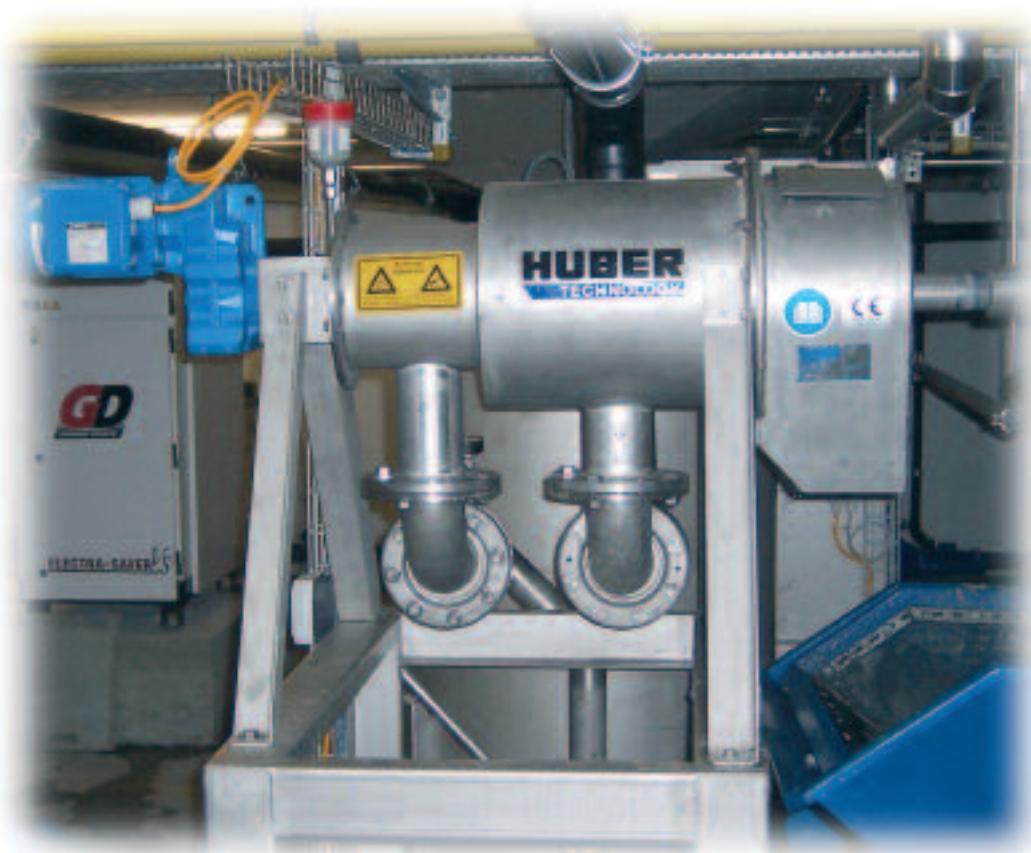


## ROTAMAT® Pipestrainer



- Fine screening of small wastewater flows (up to 5 l/s)
- Designed for installation into pressure pipelines
- Removal of hairs, fibres and fine suspended material
- Increased operating stability of membrane plants (with hollow fibre and plate modules)
- Brown water screening, wash water treatment
- Service water screening



## ►► The situation

Wash water is increasingly required for many stages of municipal and industrial wastewater treatment and conventional screens are unable to reliably ensure the solids retention required for wash water. Finer screens are an efficient and economical solution to mechanically eliminate high solids concentrations.

In particular the hollow fibre membranes recently available on the market may block with hairs or other fibrous material with the result of reduced membrane permeability. Fine screens with a very fine mesh are able to remove such material and thus ensure a trouble-free and maintenance-free operation of the subsequent membrane plant.

## ►► The solution

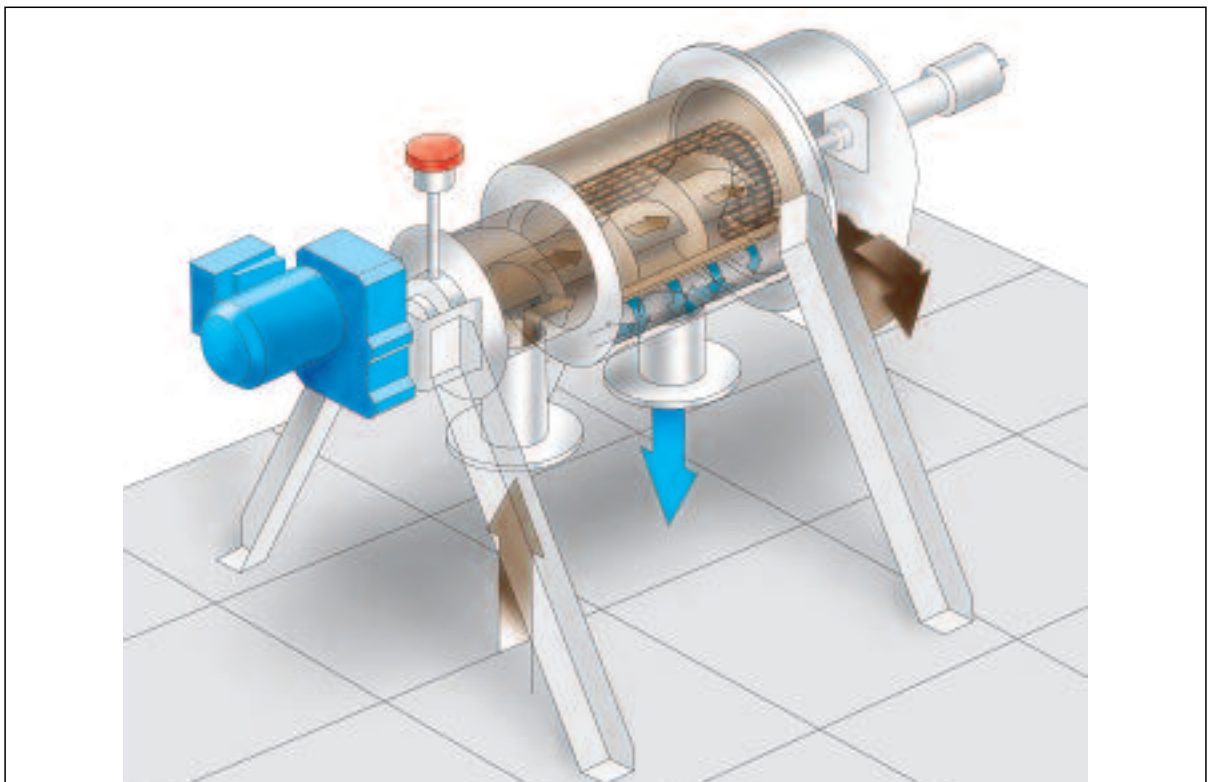
The Pipestrainer is a fine screen designed to handle small municipal and industrial wastewater flows of up to 5 l/s. Due to it being suited for installation into

pipelines and its small space requirements, the wastewater to be treated can be screened at source.

## ►► The function

The Pipestrainer is a horizontal pipe-shaped fine material separator consisting of a screening zone and a discharge section with pressure cone and pressure cone adjusting system. The screening zone consists of a screw which rotates inside a screen basket and transports the solids retained on the screen surface up to the screenings discharge. The wastewater to be treated flows through the screen surface from inside to outside and is then discharged vertically downwards through an outlet pipe connection. The screen basket

can be equipped with different filter elements and thus adapted to suit specific requirements with the screen surface mechanically cleaned by brushes fitted to the screw and backwashing with water is not required. The screenings dewatering efficiency is determined by the spring force adjusted at the pressure cone, i.e. it depends on the pre-load on the spring regarding how wide the annular discharge gap will open. The Pipestrainer can easily be integrated within a pipeline system with automatic operation of the system.



## ►► The applications

The Pipestrainer is a mechanical preliminary screen for small municipal and industrial wastewater flows of up to 5 l/s that is designed specifically for this task. It can be installed into pipelines and allows mechanical treatment of the wastewater at source prior to discharge into the sewer system or additional treatment facilities.

► Wastewater screening prior to membrane plants

The wastewater to be treated by the membrane plants must be free of hairs, fibres and suspended material that may otherwise lead to undesired tressing and consequently functional and operational problems.

► Preparation of service and wash water

Wastewater preparation is increasingly demanded to achieve recycling and reuse of the valuable resource water with particular importance in the removal of hairs and fibres.

► Product recovery

Product recovery will gain increasing importance in the future due to tightening legislation and growing ecological awareness. The Pipestrainer retains valuable material for recovery and reuse, for example when screening brown water for later humus production or recovery of difficult to sediment gypsum for further processing.

► Paper and pulp industry: separation of fine fibres

► Water treatment in food and chemical industries

► Laundries: separation of fibres

► Tobacco industry: separation of tobacco residues from wastewater

► Agricultural industry: separation of fruit and residues from peelings

► Textile industry: recovery of fibrous material from production wastewater



*Screening of municipal wastewater with a high content of fibres (in particular toilet paper)*



*The Pipestrainer removes very fine screenings (such as hairs) after a preceding coarse screen*

►► The user's benefits

- Compact, totally enclosed design for integration into an enclosed pipeline system
- Small space requirements, easy able to be retrofitted into existing pipelines
- No wash water requirement due to mechanical screen surface cleaning
- Flexibility in the selection of the screening element
- Fully automatic operation
- Quick capital payback through reduced costs of operation and maintenance



*Pipestrainer used for brown water screening for later humus recovery*

►► Technical data

The Pipestrainer has been designed for integration into pipeline systems but can be used for any processes where liquids are to be screened and transported under pressure. The standard material utilised for the complete casing and screen basket is stainless steel. Varying solids compositions can be optimally handled as the Pipestrainer's cone pressure is manually adjustable.

Screen basket elements	
Slot width (mm)	Perforated plate diameter (mm)
0,2 / 0,5 / 1,0	3

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Subject to technical modification

ROTAMAT®  
Pipestrainer