

ROTAMAT® Micro Strainer Ro 9

THE ORIGINAL
ROTAMAT®!!!



Fine screen for flows of up to 3 MGD

- for channel installation or supplied in a tank
- with integrated screenings washing and compaction
- with optional frost-protection
- made of stainless steel, pickled in an acid bath



►► Applications

- Municipal wastewater treatment at small to medium size plants
- Industrial wastewater treatment / product recovery
- Water treatment

►► Objectives

- Reduced scum formation on clarifiers and other tanks
- No clogging of aerators, pumps, pipes, and other equipment
- Less cleaning and maintenance work
- Improved plant operation and effluent quality
- No coarse material in sludge; lower sludge production and sludge disposal costs
- Reduced screenings volume, weight and disposal costs
- Return of fecal matter into wastewater flow

►► Function

Wastewater flows into the open end of the inclined semi-circular screen basket and through the screen. Controlled by the head loss through the screen, a screw rotates within the screen basket. The screw's flights are provided with a trailing brush that cleans the screen. The brush trails the flights to prevent it from being squeezed between the flights and the screen basket, thus reducing wear and maintenance.

The shafted screw conveys the screenings upward through an inclined auger tube. The screw flights have a conical shape so that the screw rides on the screenings and not on the brush. Winding-up and catastrophic damage, as experienced with shaft-less designs, cannot

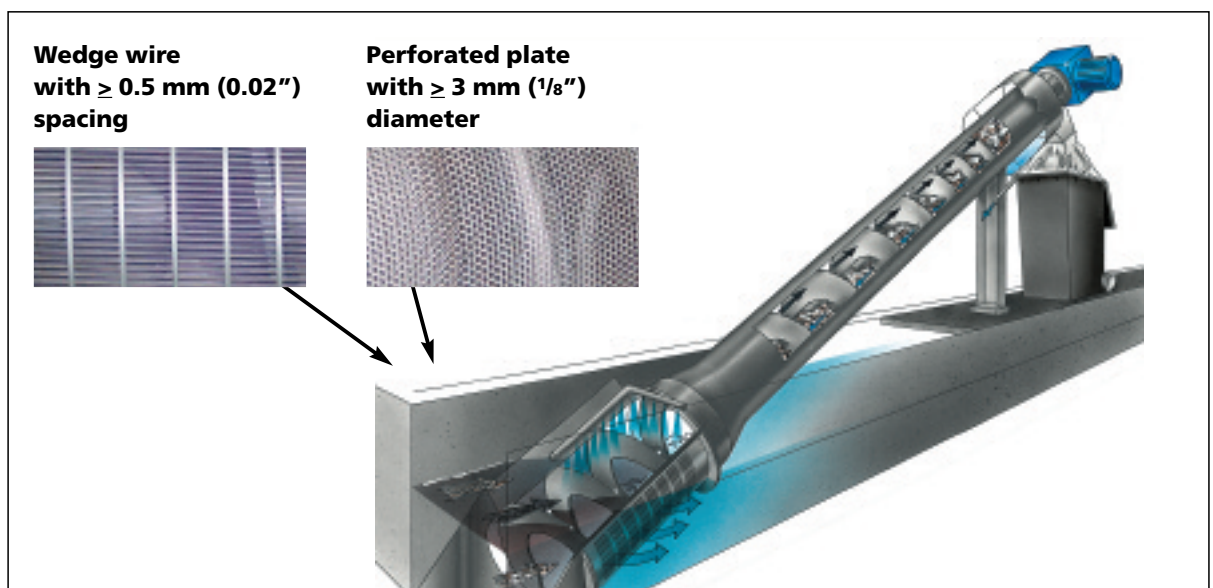
happen. Screw and tube are both made of stainless steel to prevent electro-chemical contact corrosion that occurs where carbon steel screws are installed in a stainless steel tube.

ROTAMAT® Micro Strainers are commonly supplied with an integrated screenings washing system (IRGA). The washed-out fecal matter is returned to the wastewater flow and remains available for the denitrification process.

As the screenings are conveyed and compressed within the auger tube, they are dewatered and compacted. They have a solids concentration of about 40 % when they drop into a container or bagger.

►► Benefits

- Screening, conveying, washing, dewatering and compaction in a single and compact unit with a single drive
- Reliable, self-cleansing operation
- Low screenings disposal costs due to effective washing and compaction
- No odor nuisance due to enclosure and bagger
- Inclination of up to 48° due to shafted screw
- Few and easily replaceable wear parts
- Long brush life due to trailing brush and conical shape of the screw flights
- Sturdy design with a shafted screw
- All structural parts are made of stainless steel to prevent electro-chemical contact corrosion
- Pickled in an acid bath for optimal finishing and corrosion protection
- Frost-protection for outdoor installation (optional)
- Wedge wire basket with ≥ 0.5 mm (0.02") spacing
- Perforated plate with ≥ 3 mm (1/8") diameter



➤➤ Integrated Screenings Washing (IRGA)

- Effective and efficient screenings washing
- Quick and easy installation or retrofit
- Screenings are clean and virtually odorless
- Fecal matter remains available for denitrification processes
- Reduction of screenings weight and volume by approximately 50%
- Further reduction of disposal costs



Screen basket of a Ro 9 with integrated screenings washing (IRGA)

➤➤ Extended Version Ro 9 XL

- For higher flows
- For deeper channels
- Longer screen basket
- Screw is shafted to the bottom
- Ceramic bearing at the bottom
- No weight on the brush
- Minimized brush wear, maximized brush life



Extended version Ro 9 – XL; with shafted screw, maintenance-free bottom bearing and conical screw flights

➤➤ Economy Version Ro 9 Ec

- For a low budget
- For channel installation or supplied in a tank
- Size 300 or 500 mm (12" or 20" basket diameter)
- With wedge wire or perforated plate
- With conveying and compaction, but without washing of the screenings



Tank-mounted ROTAMAT® Micro Strainer Ro 9 Ec

➤➤ Only a few Examples from Thousands of Installations



ROTAMAT® Micro Strainer installed in the center of a traffic circle



Tank-mounted ROTAMAT® Micro Strainer



Outdoor installation with electrical heating and thermal insulation for frost-protection



Indoor installation in a channel; with bagger

➤➤ Screen sizes

Basket diameter: 300, 400 or 500 mm (12", 16" or 20")

Wedge wire spacing: ≥ 0.5 mm (0.02")

Perforation diameter: ≥ 3 mm (1/8")

Inclination: from 35° to 48°

HUBER TECHNOLOGY, Inc.

9805 NorthCross Center Ct.
Suite H
Huntersville, NC 28078

Phone: (704) 949 - 1010

Fax: (704) 949 - 1020

huber@hhusa.net

<http://www.huber-technology.com>

Subject to technical modification

ROTAMAT®
Micro Strainer Ro 9