

A brand of
Aqseptence Group

Noggerath® Rotary Drum Screen RSH-I

Separation and discharge of solids or respectively contaminants from a liquid phase for disposal or, where appropriate, for recycling.



The Noggerath® Rotary Drum Screen RSH-I has successfully been employed in municipal wastewater treatment plants and in the cleaning of industrial process water for over 25 years. This rotary drum screen – originally developed for the paper industry – has proven to be particularly reliable and robust in daily use.

The process water, or respectively wastewater, flows into the headbox via the inlet flange.

Here the flow velocity is reduced and the solids in the water are homogenized. The liquid reaches the inner surface of the horizontal rotating drum by overflowing lateral weirs, and tangential loading results in a self-cleaning effect on the sieve surface. The solids captured in the drum are transported axially by flights which are mounted on the inner walls. The solids are dewatered during transport to the discharge end of the screen.

Unique features

The intelligent design of the Noggerath® Rotary Drum Screen RSH-I is characterized by:

- Double trunnion wheels for the radial drum guide (expect for drum dia. 900 mm)
- Axial drum guide by trunnion wheel
- Optimal adaptability of the inlet area to the individual requirements of the specific application

- Torsion resistant drum due to an external reinforcement spiral
- Machined drum running surfaces under the radial trunnion wheels for smoother and even running
- Suitable for the separation of coarse solids in conjunction with grit traps and /or grit washers

Benefits

- Suitable for continuous operation and gentle handling of solids
- Internal loading and high solid loads
- Complete stainless steel encapsulation
- Direct drive of the drum
- Axial guiding trunnion wheels stabilizes drum position

Product variants & design sizes

Drum diameter	900, 1,200, 1,500, 2,000 mm
Drum length	1,200 to 4,000 mm
Gap width (standard)	0.25 – 2.5 mm
Perforations (standard)	3 – 50 mm (optional)
Mesh size (standard)	40 – 500 µm (optional)
Flow rate	up to 3,500 m ³ /h

The Noggerath® Rotary Drum Screen RSH-I can be supplied with different types of drum drives and inlet chambers:

- **Chain drive** (geared motor, chain wheel, chain pinion, chain, chain tensioner) or
- **Direct drive** (geared motor, pinion gear, gear wheel)
- **Diverse inlet chambers** are also available (depending on the concentration and kind of solids).

Materials

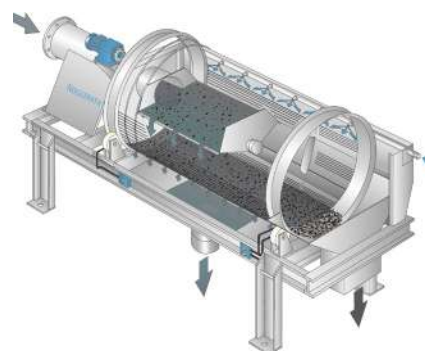
Components in contact with medium	Stainless steel AISI 304, AISI 316 Others on request
Rollers, pinion gear, gear wheel	PA plastic
Chain, sprocket, chain pinion	As usual in trade, Optionally in stainless steel

Options

- High pressure travelling nozzle for external cleaning of the drum surface with high pressure water jet
- Spray pipe with internal built in cleaning device for the utilization of service water
- Outlet chamber enlarged as pump pit / reservoir
- Control panel with soft starter
- Large volume feeding hopper with integrated spiral conveyor for dosed infeed of solids into the drum (e.g. sewer sand receiving)
- Drum inclination of approx. 10° (in some sizes)

Fields of operation

- Plastic recycling, paper industry
- Animal rendering, abattoirs
- Fruit and vegetable processing
- Breweries, wine cellars
- Sugar industry
- Fibreglass industry
- Wood processing
- Municipal wastewater treatment plants
- Sewer Treatment
- Sludge Receiving Station



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Version 1.1

The technical data stated in this brochure are indicative only and have to be determined for each individual case.
Reserve technical changes.