



A brand of  
Aqseptence Group

## Noggerath® Rotary Drum Screen RSI-SD

Fine screening of wastewater in channel or tank with a perforated or wedgewire screen – including subsequent screenings conveyance, dewatering, compaction and discharge.



With the Noggerath® Rotary Drum Screen RSI-SD, Aqseptence Group offers you a machine with a proven concept. The main parts of the Noggerath® Rotary Drum Screen RSI-SD are completely bolted. This allows easy and fast maintenance and thus low costs.

Noggerath® Rotary Drum Screen RSI-SD is a combined machine consisting of a screen, a spiral conveyor and compactor. The rotary drum is installed at an angle of 35° in the channel or tank. Solids in the incoming flow larger than the screen opening size collect on the inner surface of the drum, causing a gradual blinding. At a

predetermined upstream level the screen drum and screw conveyor starts rotating. The sedimented solids rotate upwards with the drum, where they drop gravitationally into a conveyor trough located in the center of the drum supported by a spray bar. There it is caught by the spiral and transported up to the press zone. During the rotation the spiral brushes removes the solids from the inner surface of drainage zone. In the press zone the screenings are conveyed, compacted and dewatered prior to disposal or further treatment.

---

### Benefits

- Compact design requires less space
- High capture rate of solids
- Easy and fast maintenance and thus low costs due to bolted main parts of the unit

---

### Unique features

- Drum seal is designed and tested up to 200µm
- The screw conveyor is equipped with suitable brushes to clean the drainage zone in the conveyor. The brushes are made in segments, bolted on the spiral, allowing an easy replacement of the worn pieces only.

## Performance

<b>Flowrate</b>	up to 6.000 m <sup>3</sup> /h
<b>Machine width</b>	from 760 – 2.560 mm
<b>Channel width</b>	from 800 – 2.600 mm
<b>Perforation</b>	1 – 10 mm
<b>Wedge-wire</b>	0.25 – 6 mm
<b>Dry matter content of discharged screenings</b>	up to 35 %

## Materials

<b>Casing, supports, drum</b>	stainless steel AISI 304 or AISI 316 Others on request
<b>Spirals</b>	special Micro Alloy Steel St52 (in acc. with AS Group standard), alternatively stainless steel AISI 304 or AISI 316
<b>Drum seal</b>	Urethane 90 S
<b>Lower drum bearing</b>	bronze

## Options

- Bagging unit for solids
- Screenings washing system
- Hygienic encapsulation
- Protection cover for the channel version
- Tank version for pump feeding

## Applications & fields of operation

- Fine screening in municipal water treatment
- Pre-screening in water treatment plants or before MBR
- Industrial wastewater treatment



### Aqseptence Group GmbH Water Treatment Systems

Ziegeleiweg 2  
31675 Bueckeburg · Germany  
Phone +49 5722 882 0  
Fax +49 5722 882 282  
noggerath@aqseptence.com

[www.aqseptence.com](http://www.aqseptence.com)



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.