



A brand of  
Aqseptence Group

## Noggerath® Rotary Drum Screen RSI-DD

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



The Aqseptence Group offers you a Rotary Drum Screen with a revolutionary double drive concept. In contrast to the conventional technology the Noggerath® Rotary Drum Screen RSI-DD is designed without any bearing and fixed rotating arm in the lower part. The screening area is totally free with significant advantages for operation and maintenance.

Noggerath® Rotary Drum Screen RSI-DD is a combined machine consisting of a screen, a conveyor and compactor. The machine is installed in the channel at an angle of 35°. Solids in the incoming flow larger than the screen opening size are collected

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

### Benefits

- Ease of maintenance, best accessibility to drive motors
- Compact construction requires less space
- High separation efficiency
- Low construction height over upper edge of channel
- Cleaning brushes fixed on the bottom part of spiral for cleaning the trough

### Unique features

- Drum sealing is designed and tested up to 200 microns.
- No possibility for larger solids to be trapped within the machine due to any fixed or rotating arm.
- Double Gearbox: drum stops, but spiral conveyor continues rotation and lifts up the solids.
- Rotary drum design ensures that separated solids are retained and cannot bypass the screen even by peak flow loading.

## 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

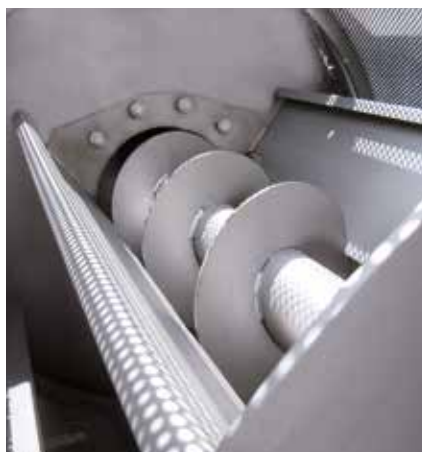
<b>Casing, supports, drum</b>	stainless steel AISI 304 or AISI 316 Others on request
<b>Spirals</b>	special Micro Alloy Steel St52 (in acc. with AS Group standard), alternatively stainless steel AISI 304 or AISI 316
<b>Bull gear</b>	C 45 hot galvanized + sealer
<b>Drum seal</b>	Urethane 90 S
<b>Lower drum bearing</b>	HDPE

## 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 for MBR
- Industrial wastewater treatment



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