

# Noggerath® Rotary Drum Screen RSI-RED

Protect downstream processes at wastewater treatment works with fine screening

## Product Summary

The Noggerath® Rotary Drum Screen RSI-RED is a reliable fine screen for installation at the inlet works of wastewater treatment works to protect the downstream treatment processes from damage or clogging.

## Applications

- » Municipal wastewater treatment works
- » Pre-screening in water treatment plants
- » Fine screening upstream of membrane bioreactors (MBR processes).

## Benefits

### Protect downstream processes from damage or clogging

By removing solids and debris from the sewage inflow, the Noggerath® Rotary Drum Screen **protects downstream processes** from damage and clogging, helping to ensure they operate efficiently.

### Reduce maintenance with a clogging-free discharge zone

The Noggerath® Rotary Drum Screen incorporates the patented Noggerath® Radial Eco Drive which has an axially free discharge which removes the chance of clogging in the discharge area, resulting in reduced maintenance.

### Reduce wear of the conveyor screw

The conveyor screw and drum have separate drives which reduce torsional stresses in the conveyor screw, reducing wear and cutting maintenance.



## Design details

Flow rate	Up to 6,000 l/s
Channel Width	from 800 mm - 2,600 mm
Screen drum diameter	from 760 mm - 2,560 mm
Perforations	1 mm - 10 mm
Wedge-wire	0.25 mm - 6 mm
Dry matter content of discharged screenings	up to 35%
Screen drum, frame, encapsulation and supports (other options available on request)	Stainless steel AISI 304L or AISI 316L.
Screw / Spiral	Special Micro Alloy Steel (carbon steel in accordance with Passavant-Geiger standard), or stainless steel AISI 304L or AISI 316L.
Pinion, gear segments	PA6G
Drum seal	Urethane 90S
Cleaning brushes	Nylon



Find out more about how the Noggerath® Rotary Drum Screen RSI-RED can help protect your treatment works:

→ [hydro-int.com/rotary-drum](https://hydro-int.com/rotary-drum)

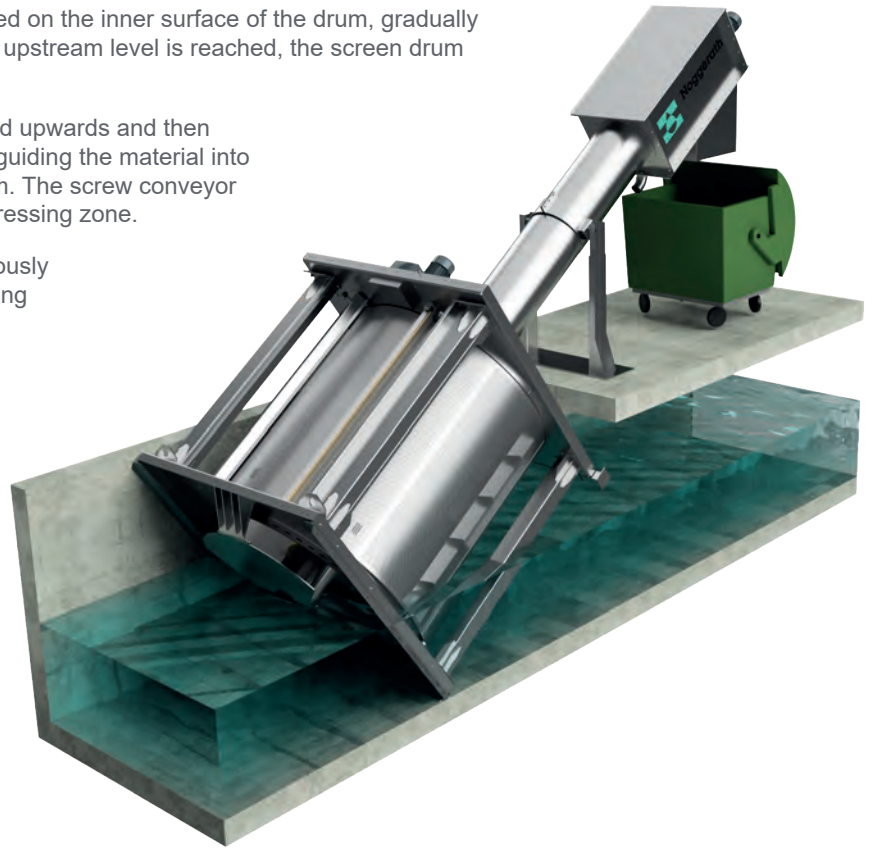
## How it works

Screenings larger than the screen opening are retained on the inner surface of the drum, gradually forming a layer on the screen. Once a predetermined upstream level is reached, the screen drum and screw conveyor begin to rotate independently.

As the drum rotates, the collected screenings are lifted upwards and then released by gravity. A spray bar assists this process, guiding the material into a centrally positioned conveyor trough inside the drum. The screw conveyor captures the screenings and transports them to the pressing zone.

At the same time, the rotating screw brushes continuously clean the inner surface of the drainage zone, preventing blinding of the screen.

In the pressing zone the screenings are compacted and dewatered prior to discharge for disposal or further treatment.



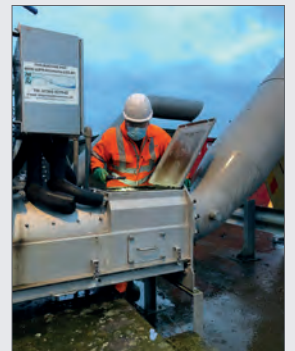
To find out how our range of wastewater inlet works solutions can help you cut the costs of solids handling and improve downstream treatment efficiency at your treatment works call 01275 878371 or visit: → [hydro-int.com/inlet-works](https://hydro-int.com/inlet-works)

## UK Wastewater Services

Hydro International's UK Wastewater Services team is the country's largest provider of screen servicing and maintenance. Operating from five regional offices across the UK they deliver critical support to wastewater treatment plant owners and operators 24 hours a day, 365 days a year.

- » Repair & refurbishment
- » Servicing & maintenance
- » Inlet equipment hire
- » Spares provision
- » Emergency support 24/7

To find out how our services team can help you keep your inlet works working at peak efficiency please call 01305 821142



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