



BILFINGER WATER TECHNOLOGIES

## NOGGERATH® Sand Separator SR

### TASK

The separation of sand or other settleable solids from liquids for the recovery of recyclable matter or for the avoidance of sedimentations and downstream operational problems.

### SOLUTION

The NOGGERATH® Sand Separator SR has been successfully employed in municipal and industrial wastewater treatment plants for many years in processes involving the solid/liquid separation of sand/water mixtures. Our separator system has achieved excellent results for the separation of rejects within a wide range of industrial process water cycles.

### FUNCTION

The reject/water mixture, which is to be separated, is pumped into the settling tanks. The inlet area is designed to minimise turbulences which negatively affect the separation process and the flow is directed in such a way that an optimal separation of the sediments and the floating matter is assured. Due to the inclination of the walls of the settling tank, the sinking matter is directed into the conveyor spiral and is discharged.

### PRODUCT VARIANTS

The NOGGERATH® Sand Separator SR can be completed as a stationary installation within a building or as a moveable option on the scraper bridge.

### BENEFITS

- Low maintenance due to simple and robust stainless steel construction
- High operational reliability – no pigtailing or clogging
- Low operating costs due to direct drive with low power consumption
- Low wear and tear due to low rotational speed



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Sand Separator SR 270

## PERFORMANCE

Technical Data (mm)					
	primarily municipal		primarily industrial		
Sand Separator Type	SR 270	SR 400	SR 260	SR 320	SR 420
Max. throughput capacity (l/s)	20	35	12	20	35
Max. sand separating capacity (m <sup>3</sup> /h)	1.00	3.00	1.00	1.50	3.00
Inlet connections (DN)	150	200	100	150	200
Outlet connections (DN)	200	250	150	200	250
Water surface (m <sup>2</sup> )	1.67	3.00	2.30	3.00	5.00
Water volume (m <sup>3</sup> )	0.78	1.85	1.20	1.80	4.20

## MATERIALS

Tanks, covers and supports:

stainless steel EN 1.4301 (AISI 304) or stainless steel EN 1.4571 (AISI 316Ti)

Spirals:

special steel in accordance with NOGGERATH® standard, alternatively stainless steel EN 1.4571 (AISI 316Ti)

Wear rails:

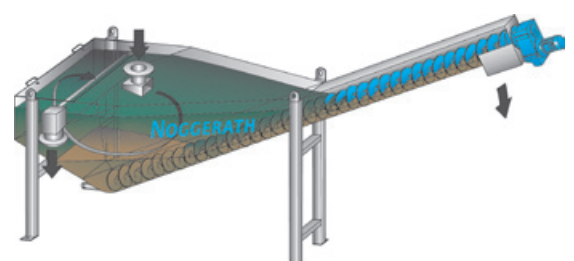
HARDOX on 1 mm stainless steel shell

## OPTIONS

- Integrated tube diffuser for aeration for improved separation of light matter
- Special design for the paper industry
- Wear lining made of PE or stainless steel
- Heating and insulation for outdoor installation / winter operations

## APPLICATIONS & FIELDS OF OPERATION

- Separation and dewatering
  - of grit trap settlings from municipal and industrial wastewater treatment plants
  - of cleaner rejects from the paper and pulp industry
  - of sediments from production and processing wastewater
- As a grit trap in small wastewater treatment plants
- Bunker installations for sewer grit receiving stations



Flow scheme  
Sand Separator SR  
in industrial design

NOGGERATH® Sand Separator SR

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