



NOGGERATH® Revolving Chain Screen KLR

TASK

The separation of solids from liquid/solid mixtures by screening within municipal or industrial wastewater treatment processes.

SOLUTION

The NOGGERATH® Revolving Chain Screen KLR is a complete redesign of a machine type which has been successfully tried and tested in the process technology of wastewater treatment plants. The application of state-of-the-art laser cutting and 3D folding technology is the key to its production-optimised lightweight construction.

FUNCTION

The cleaning of the barrack is carried out by revolving rake elements which are transported via a swivelling chain guide assembly by roller chains. The KLR has good hydraulic properties as a result of its frameless bar rack installation. The swivelling chain guide assembly ensures easy accessibility and efficient monitoring of blockages.

PRODUCT VARIANTS

Depending on the gap width and/or hydraulic conditions, the bar rack can be manufactured as follows:

- Flat bar material (6 x 40 mm), form factor = 2.40 with gap widths > 25 mm*
- PAPRO (40 x 8 x 4 mm), form factor = 0.84 with gap widths 6–25 mm*
- RSP 35 (35 x 5.5 x 2.7 mm), form factor = 0.76 with gap widths < 6 mm*

*guide values

BENEFITS

- Gap widths possible up to min. 3 mm
- Low maintenance, low wear and tear due to:
 - maintenance-free stainless steel roller chain
 - no bearing below the waterline
 - cleaning without brush
- Curved bars on the channel bottom:
 - installation without bed drop/invert recess
 - no dead spaces/deposits in front of the bar rack
- Swivelling chain guide assembly:
 - blockage monitoring for the avoidance of damage
 - considerable cost reductions due to ease of maintenance and repair work

MATERIALS

Component	Material
frame, chain guide, scraper frame, discharge chute, bar rack	EN 1.4301 (AISI 304) or EN 1.4571 (AISI 316Ti)
chain bush, chain studs	EN 1.4057 (AISI 431) – hardened
link plates, locking rings	EN 1.4571 (AISI 316Ti)
scraper and swivel bearing	UHMW PE (1000)
chain rollers and sprockets	PA 6 G

Other materials – e. g. DUPLEX – available on request

DESIGN SIZES

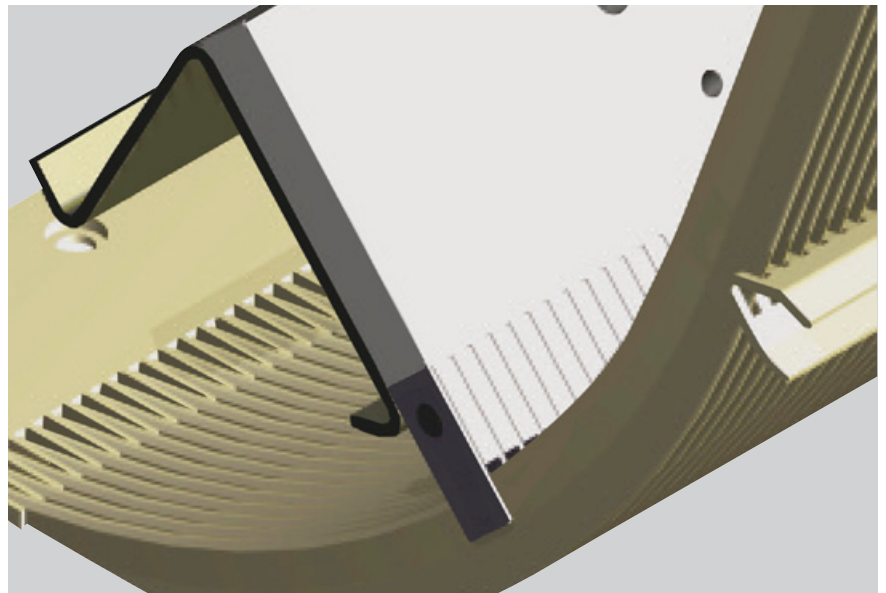
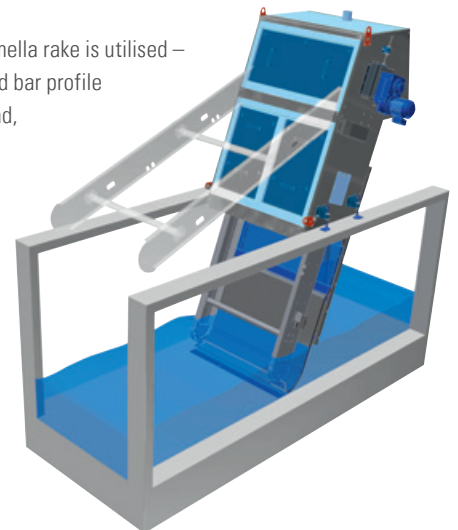
- Channel width: 500–2,000 mm
- Channel depth: 400–4,000 mm
- Discharge height: customised
- Gap width: 3–100 mm
- Installation angle: 70°

APPLICATIONS & FIELDS OF OPERATION

The NOGGERATH® Revolving Chain Screen KLR is suitable for coarse or fine screening and can be employed in municipal or industrial wastewater treatment.

UNIQUE FEATURES

For gap widths of < 6 mm preferably a special lamella rake is utilised – in combination with our extremely flow-optimised bar profile RSP 35 – which ensures complete penetration and, therefore, optimal cleaning of the bar rack.



Water Technologies

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