

GEIGER® Climber Screen KRC

BENEFITS

- High level of efficiency and operational reliability with low maintenance and low wear and tear:
 - no moving drive components in the water
 - cleaning rake drive without cables or chains
 - smooth even running of cleaner rake due to maintenance-free pin rack drive system
 - drive motor retains its direction of rotation, thus reducing wear on the drive
- Trouble-free installation, also into existing plants
- Minimal maintenance and operating costs

TASK

Reliable fine or coarse screening of municipal or industrial wastewater – in a channel design.

SOLUTION

Whether operating as a co-flow or counter-flow screen, the GEIGER® Climber Screen KRC from Bilfinger Water Technologies has, for decades, proved to be an efficient and reliable solution in plants throughout the world. Due to continuous development and adaptation to ever-changing requirements and technologies, it has remained one of the best in its class – an original which sets standards.

FUNCTION

The cleaner carriage is driven by a pair of cogwheels around a pin rack. The rake is steered by rollers running in a guide rail and a follower track. The rake performs a looping type movement as the cleaner carriage ascends and descends.

When the cleaning cycle commences, the cleaner carriage descends from the resting position with an open rake arm. At the point when the cogwheel reaches the lowest pin of the rack and the rake reaches the channel bottom, the cogwheel turns further around the pin and the rake penetrates into the bar screen. The carriage ascends with a closed rake arm, whereby the rake collects the screenings and conveys them to the discharge position. The stripper device removes the screenings from the rake shell and pushes them via the discharge chute into the screenings disposal facility. This procedure is repeated until all the screenings have been removed from the bar screen.

The cleaner carriage remains in the upper resting position between the two cleaning cycles. If a blockage occurs, the overload protection device is triggered which stops the carriage and sends a signal to the control centre.

DESIGN SIZES

The GEIGER® Climber Screen KRC can be manufactured in various technical designs to suit your requirements:

- Channel width: up to 4 m
- Channel depth: up to 15 m
- Water depth: max. 2.5 m
- Min. gap width in co-flow screen: 6 mm
- Min. gap width in counter-flow screen: 12 mm



MATERIALS & OPTIONS

Our tried and tested Climber Screens are manufactured exclusively with top quality durable materials:

Metal parts:	DIN 1.4301 (AISI 304) or DIN 1.4571 (AISI 316Ti)
Stripping rail, rollers, cogwheels:	PA6G

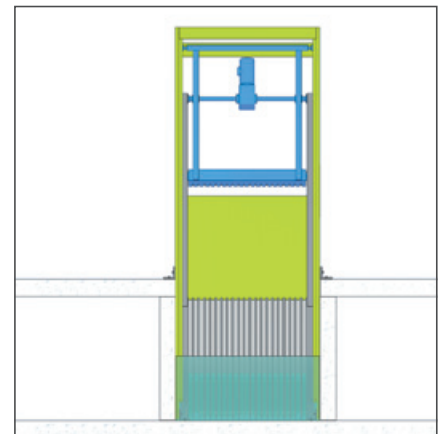
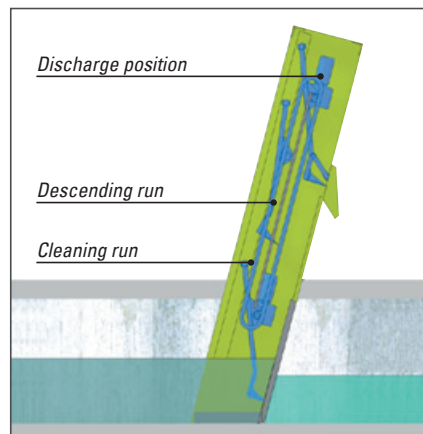
APPLICATIONS & FIELDS OF OPERATION

GEIGER® Climber Screens KRC are operating successfully as fine or coarse screens in municipal or industrial wastewater technology throughout the world.

UNIQUE FEATURES

The well-designed construction and durability of our Climber Screens have proved to be a convincing and reliable solution in daily operational use:

- Robust, simple components
- Electromechanical overload protection system
- Simple machine cover or complete encasement possible
- The cleaner carriage can be stopped at any required height:
 - maintenance work can be carried out from operation floor level
 - no necessity for a maintenance platform



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