



A brand of
Aqseptence Group

Passavant® Multi Rake Bar Screen KUR

Reliable removal of large pollutant loads by means of coarse or fine screening in the mechanical pre-purification of wastewater, within pumping stations or in the inlet area of communal and industrial wastewater treatment plants.



The Passavant® Multi Rake Bar Screens KUR from Aqseptence Group are machines which are developed with the know-how of experience for decades in the construction of sewage treatment plants.

Innovative production processes have succeeded in creating a top quality product which is characterized by its economic efficiency and excellent cleaning performance.



This is achieved by the utilization of flow-optimized screen bar profiles, which are tailored to hydraulic requirements, together with variably adaptable cleaning elements which can be adjusted, both in type and number, to suit the respective transport task and the requirements of the cleaning cycle.

The cleaning cycle starts as soon as the drive is activated, in order to reduce the difference in water levels caused by screenings accumulating in the bar rack. During the ascending cycle, such screenings are completely removed by the cleaning elements which penetrate into the screen bars. The screenings are then collected and conveyed to the discharge point from where they are pushed, by means of an automatic stripping device, down a discharge chute to the screenings collection tank, conveyor belt etc. The screen cleaning cycle is repeated until the difference in water levels has been completely removed.

Materials

All components are made of top quality materials:

- Stainless steels are pickled and passivated in an acid-free solution

Benefits

- Low maintenance, low wear and tear due to:
 - Individually replaceable sprocket teeth on the drive unit
 - Maintenance-free stainless steel roller chain
 - No bearings below the waterline
 - The swiveling chain guide assembly ensures easy accessibility for KUR-S
 - Blockade monitoring and reverse operation to remove obstacles in the bar rack
 - Short cleaning cycle time due to multiple revolving cleaning elements
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Product variants

The Multi Rake Bar Screen KUR-C can be optimally tailored to suit every application and is available in following versions:

KUR-HD	"The Heavy Duty" version for particularly ambitious applications and a channel width up to 6 m.
KUR-C	The compact standard version for a width up to 3 m.
KUR-S	With swiveling chain guide device and a bar rack over the entire channel width for smaller channels up to 2 m. (no losses by frame, good hydraulic conditions)
KUR-Defender	Simplified standard version.

All versions

- Vertical design or design with inclination
 - Cover for hygienic reasons and odour containment, including inspection window (optional)
 - Variety of cleaning elements to deal with different screenings removal tasks
 - Flow-optimized bar rack profiles and curved screen bars employed on the channel bottom to meet hydraulic requirements
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Design features

- Cleaning elements are bolted to the bushings of the roller chain and can be individually adjusted and replaced
- Automatic scraper device with stripping ledge
- Rake and comb plate can be individually replaced, independently of each other
- No dead spaces (deposits) in front of the bar rack when using curved screen bars
- The lower guiding section has an additional alignment guide to ensure exact tooth penetration.
- Geared motor with electric overload protection

Design sizes

The following dimensions can be supplied:

Channel width	from 0.4 m
Channel depth	up to 20 m
Discharge height	customised to requirements
Bar spacing – bar profile	6–100 mm
Bar spacing – brush / scraper	2–5 mm
Installation angle	75° / 80° / 85° / 90°
Bar profile	<ul style="list-style-type: none">· flat steel, dimension acc. requirement· RSP 35, shape parameter 0.76· Papro, shape parameter 0.84· NWE, shape parameter 0.92 (Tear-drop shaped bar profile)

Further designs and dimensions are available on request, to meet your individual requirements.



The swiveling chain guide assembly ensures easy accessibility for KUR-S and an efficient block-ade control

Fields of operation

The Passavant® Multi Rake Bar is not only suitable for installation in new structures but also can be easily integrated into existing plants:

- Wastewater treatment plants of all sizes
- Pumping stations
- Industrial wastewater treatment
- Storm water overflow and storage channels



KUR-C in
detail view



in setting up



KUR-HD Installa-
tion in Turkey

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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.