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[RakeMax®-hf combines the advantages of the wellproven RakeMax® and a bar rack with a very small inclination!](#)

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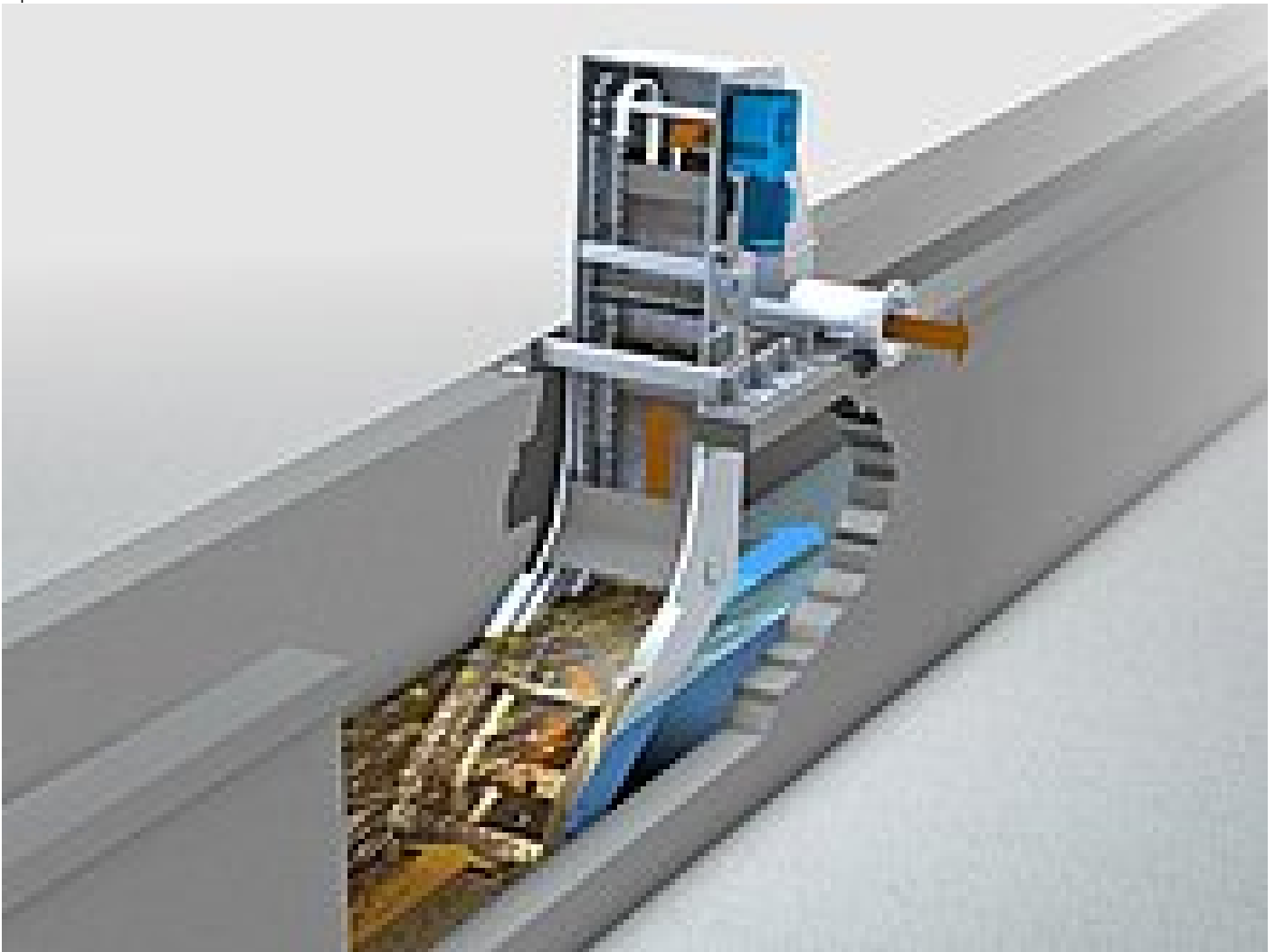




The prototype of the L-shaped RakeMax®-hf screen was for the first shown at IFAT 2010.



Due to the extremely flat installation of the bar rack the screen section through which the flow passes is always double the water level in the channel.



Principal sketch of RakeMax-hf®

Good ideas always find imitators

The RakeMax®-hf excellently combines the advantages of the well-proven RakeMax® with the positive properties of a screen with a bar rack that is installed with only a small inclination.

The multi-rake bar screen RakeMax® for preliminary mechanical wastewater treatment was developed by HUBER in 2003 and presented to the public for the first time at IFAT 2005. Due to its versatility the RakeMax® has since very well proven its efficiency and become firmly established in the global wastewater technology market. More than 1,300 reference installations give proof of this success.

On the basis of the successful RakeMax®, another new screen type for headworks has been developed in the course of continuous further development and for the first time presented at IFAT 2010, the L-shaped RakeMax-hf® (high flow). Like the RakeMax® screen this L-shaped multi-rake bar screen belongs to the MAX family of HUBER screens. It were our competitors themselves who indirectly confirmed that we are on the right track with this innovation at IFAT 2014 where similar models could be "admired" on many booths.

The RakeMax-hf® screen consists of a flat and therefore hydraulically advantageous bottom section and a steep conveying section. This combines the benefits of the well proven RakeMax®, reliable solids separation and high screenings discharge capacity, with a low headloss due to a large effective screen rack surface.

We have already sold more than fifty RakeMax®-hf units. Due to the extremely small inclination of the bar rack, the screen section through which the flow passes is always double the flow profile in front of the rack.

Another advantage of the large effective screen rack surface is that the flow velocity is very slow in the screen gaps with the result of a significant increase in separation efficiency. Furthermore, the flat installation angle of the bar rack and lifting of the material virtually at bottom level prevents problems with sediments in front of the screen, i.e. prevents right from the beginning that such material can settle at all.

Main characteristics of the RakeMax®-hf:

- High hydraulic throughput with a small bar spacing, even with deep channels
- Sturdy design, well-proven technology
- High removal efficiency

- Prevents disturbing sediments in front of the screen

Especially with existing screening plants the minimum requirements on solids retention in the inlet are often not reliably met. One reason for this is certainly that people can select from a great variety of sanitary products today and have changed their consumer behaviour during the past years. To meet these changed requirements the passage opening at the bar rack needs to be reduced, but this frequently leads to growing hydraulic loads.

These conditions make it inevitably necessary to provide for a bigger hydraulic passage area, and this normally means that the size of the existing channel has to be widened or even a new building erected for the screen, with the result of high construction costs.

For such applications HUBER offers another screen type for headworks, the well-proven L-shaped multi-rake bar screen RakeMax®-hf. RakeMax®-hf screens can be adjusted to suit specific site requirements, both structural and hydraulic, and reduce investment and operating costs.

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