

[Home](#) ■ [HUBER Report](#) ■ [Screens](#) ■

[The HUBER Multi-Rake Bar Screen RakeMax® – a success story with more than 3000 installed machines](#)

## The HUBER Multi-Rake Bar Screen RakeMax® – a success story with more than 3000 installed machines

**At HUBER SE, the 3,000th RakeMax® screen has left the factory at the company's headquarters in Berching. In the course of its almost 20-year success story, the RakeMax® has become the flagship among screening systems.**

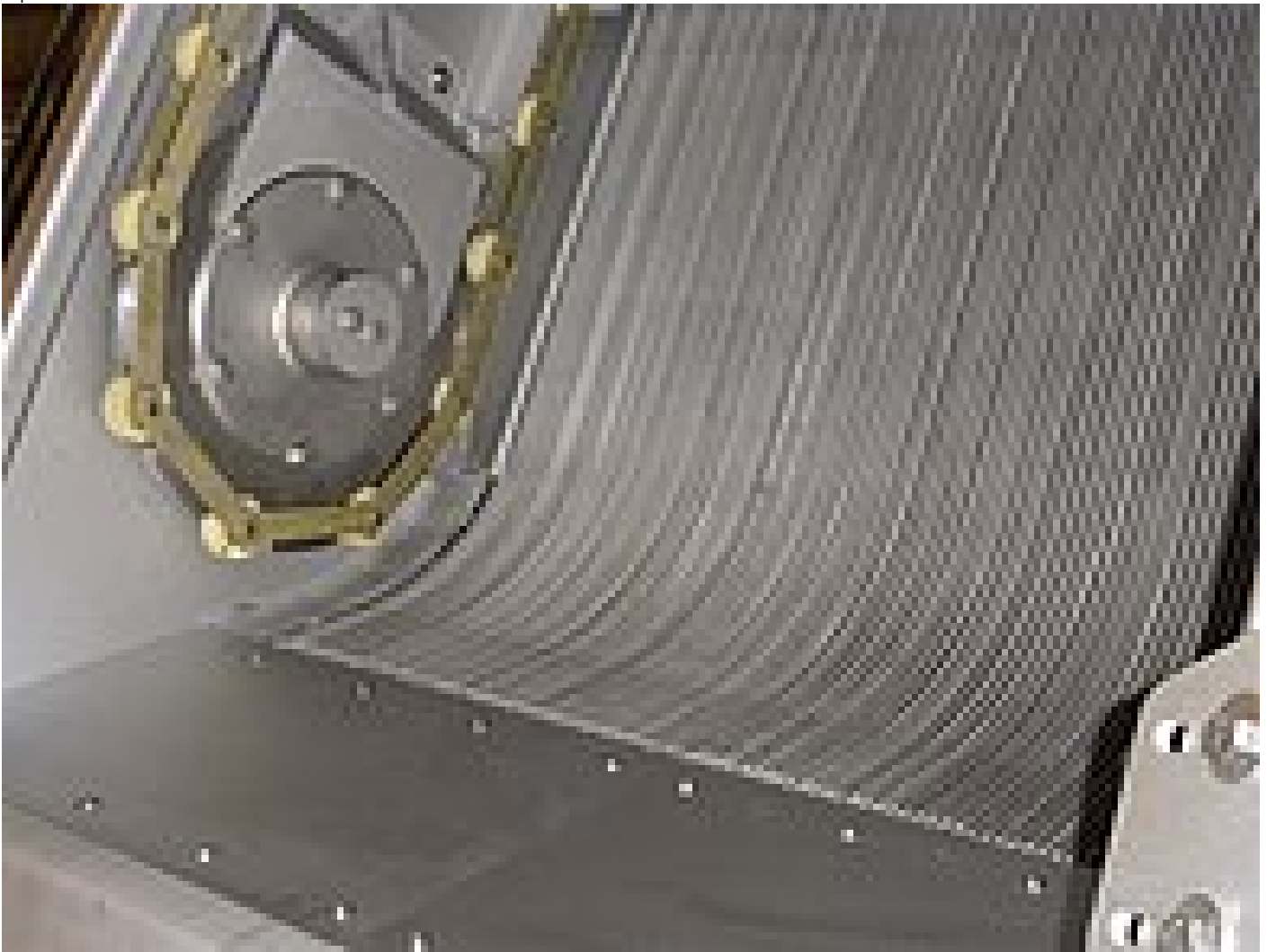
The HUBER Multi-Rake Bar Screen RakeMax®, firmly established in the market and first presented to the public at the International Trade Fair for Sewage Technology IFAT 2005, has meanwhile proven itself more than three thousand times on the worldwide market of wastewater technology due to its versatile application possibilities.



*The "anniversary machine" RakeMax® in its basic version in the main inlet of a wastewater treatment plant.*



*The HUBER Multi-Rake Bar Screen RakeMax® HF with its cranked frame construction is almost indistinguishable from the proven basic RakeMax® machine from the outside.*



*In the case of the RakeMax® J, the screen bars, which are curved towards the channel bottom, result in an overall larger cross-section of the screen through which the flow passes, which leads to lower hydraulic losses.*

### HUBER Multi-Rake Bar Screen RakeMax® HF

In the course of continuous development, another innovative screen type based on the successful RakeMax® was already developed in 2010 in the field of influent screening: the cranked version of the multi-rake bar screen called RakeMax® HF (High Flow). This screen version consists of a flat and therefore hydraulically very advantageous bottom screening section with a subsequent transition into a steep conveying section. Here, the positive characteristics of the proven RakeMax® – reliable solids separation and high screenings discharge capacity – are combined with low hydraulic screen loss due to a large and effective bar rack surface of the screen. Due to the extremely flat inclination of the bar rack of 30°, the screen section through which the flow passes is always double the depth of the approaching flow.

### HUBER Multi-Rake Bar Screen RakeMax® J

The HUBER RakeMax® J is also a modified variant of the proven Multi-Rake Bar Screen RakeMax®. In contrast to the standard version the screen bars of the RakeMax® J are not straight, but curved towards the bottom of the channel. The additional designation “J” is also derived from the shape of the bar rack, as the contour of the screen bars resembles the silhouette of this letter.

The screen rake moves along the curvature of the screen bars and describes a segment of a circle in this section. The flat inclination of the rake bars directly in the bottom area results in an overall larger cross-section of the screen through which the flow passes, which leads to lower hydraulic losses as well as to a reduction of the flow velocity in the gaps between the screen bars.

For the manufacture of the semi-circular curved screen bars, HUBER uses its many years of experience in the production and use of screens with curved screen bars, such as the well proven HUBER Fine Screen ROTAMAT® Ro1. In this screen system, the curved bar rack is reliably cleaned in a comparable way by the screen cleaner rake with corresponding meshing teeth.

With the two variants RakeMax® HF and RakeMax® J described above, disturbing deposits can already be absorbed by the rakes in the lower screen area thanks to the special design. This further optimises the functionality and ease of maintenance of the multi-rake bar screen.

### HUBER Multi-Rake Bar Screen RakeMax® CF

For the first time presented at WEFTEC (Water Environment Federation's Technical Exhibition and Conference) 2019, the leading American trade fair for the water industry, another innovative screen type based on the successful RakeMax® was introduced: the

HUBER RakeMax® CF (Center Flow) screen combines the advantages of the proven model with the positive features of a center flow screen.

## The HUBER Multi-Rake Bar Screen RakeMax® – modern screening system of the highest quality class

The HUBER Multi-Rake Bar Screen RakeMax® offers enormous potential in a wide range of applications due to its diverse application possibilities: the above-mentioned RakeMax® models represent only an overview of the possibilities. One example of the continuous development and variability: the angle of installation. At the beginning of its "career", the installation angle of the RakeMax® was 75 to 80° – today it can be used with an angle of 50 to 85°. Its product features, advantages and the resulting application possibilities and solutions make the HUBER Multi-Rake Bar Screen RakeMax® a modern screen of the highest quality.

Thanks to its various designs, the RakeMax® also opens up a very wide range of applications, enabling HUBER to respond even more individually to customer needs and structural and hydraulic conditions in the future. Despite all the enthusiasm for technology, one essential aspect of machine development must not be left out: user-friendliness. And in this respect, too, HUBER's RakeMax® impressively demonstrates that its individually configurable machines offer tailor-made solutions in the field of mechanical wastewater treatment.

### Related Products:

- [HUBER Multi-Rake Bar Screen RakeMax®](#)
- [HUBER Multi-Rake Bar Screen RakeMax® CF](#)
- [HUBER Multi-Rake Bar Screen RakeMax® HF \(high flow\)](#)

### Related Solutions:

- [HUBER Solutions for Mechanical Pre-Treatment](#)

Huber Technology (Pty) Ltd

Company Reg. No.: 1992/006606/07

PO Box 9813  
George, 6530  
South Africa

Phone +27 44 874 4242

Fax +27 44 874 3658

[huber@lantic.net](mailto:huber@lantic.net)

<http://www.hubersa.com>

**A member of the HUBER Group**