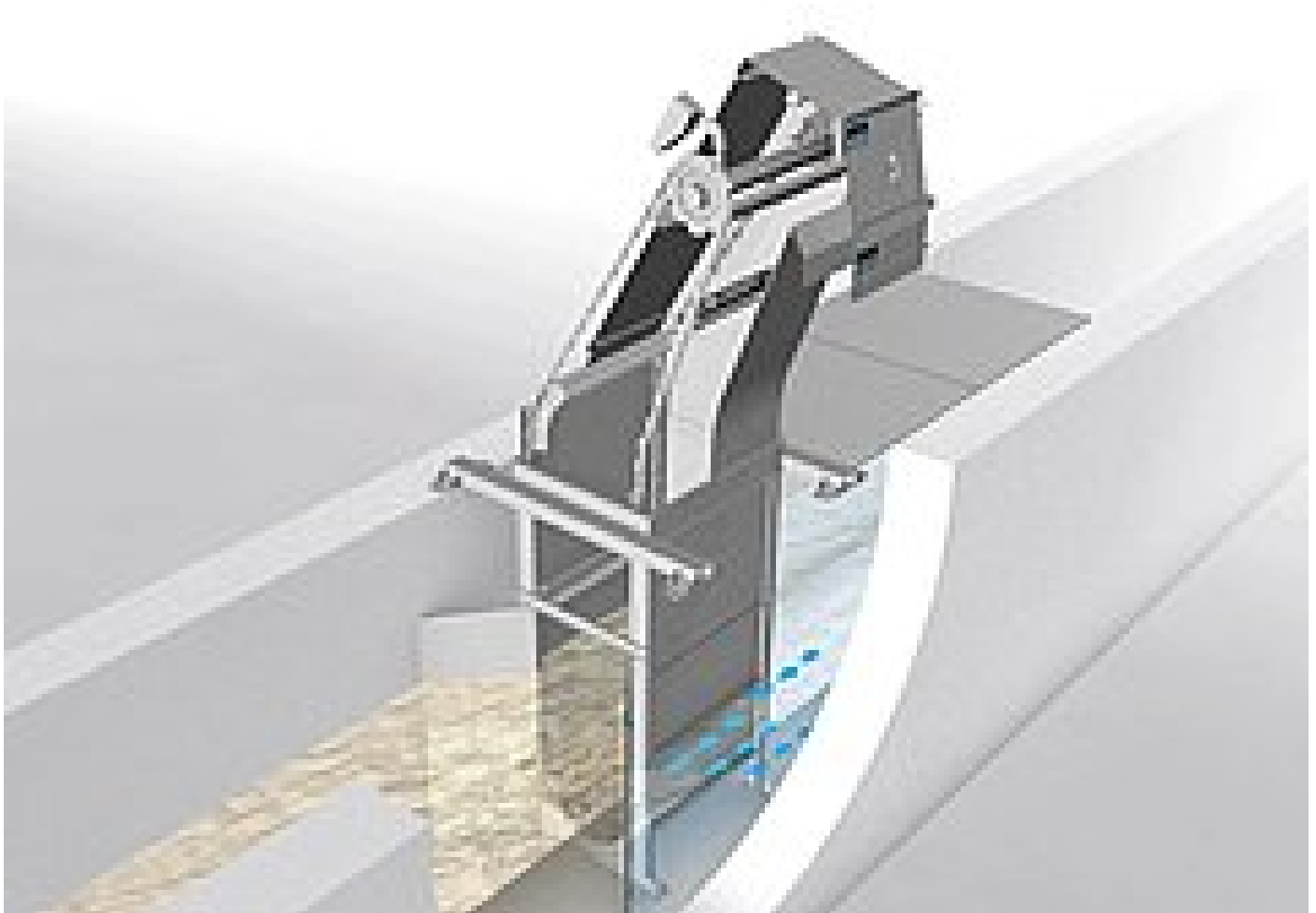


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## HUBER combines proven RakeMax® with center flow screen

HUBER presents the HUBER Multi-Rake Bar Screen RakeMax® CF, an innovative variant of the well-proven RakeMax® system with a Centre Flow screen.



*Schematic diagram of the HUBER Multi-Rake Bar Screen RakeMax® CF, which excellently combines the advantages of the proven RakeMax® with the positive characteristics of a "Center Flow" screen*

The model impresses with its hydraulic throughput capacity by means of a U-shaped bar rack, even with small bar spacings and in narrow channels. It offers an optimal hydraulic utilisation of existing channels and the screen is unsusceptible to grit, gravel and stones.

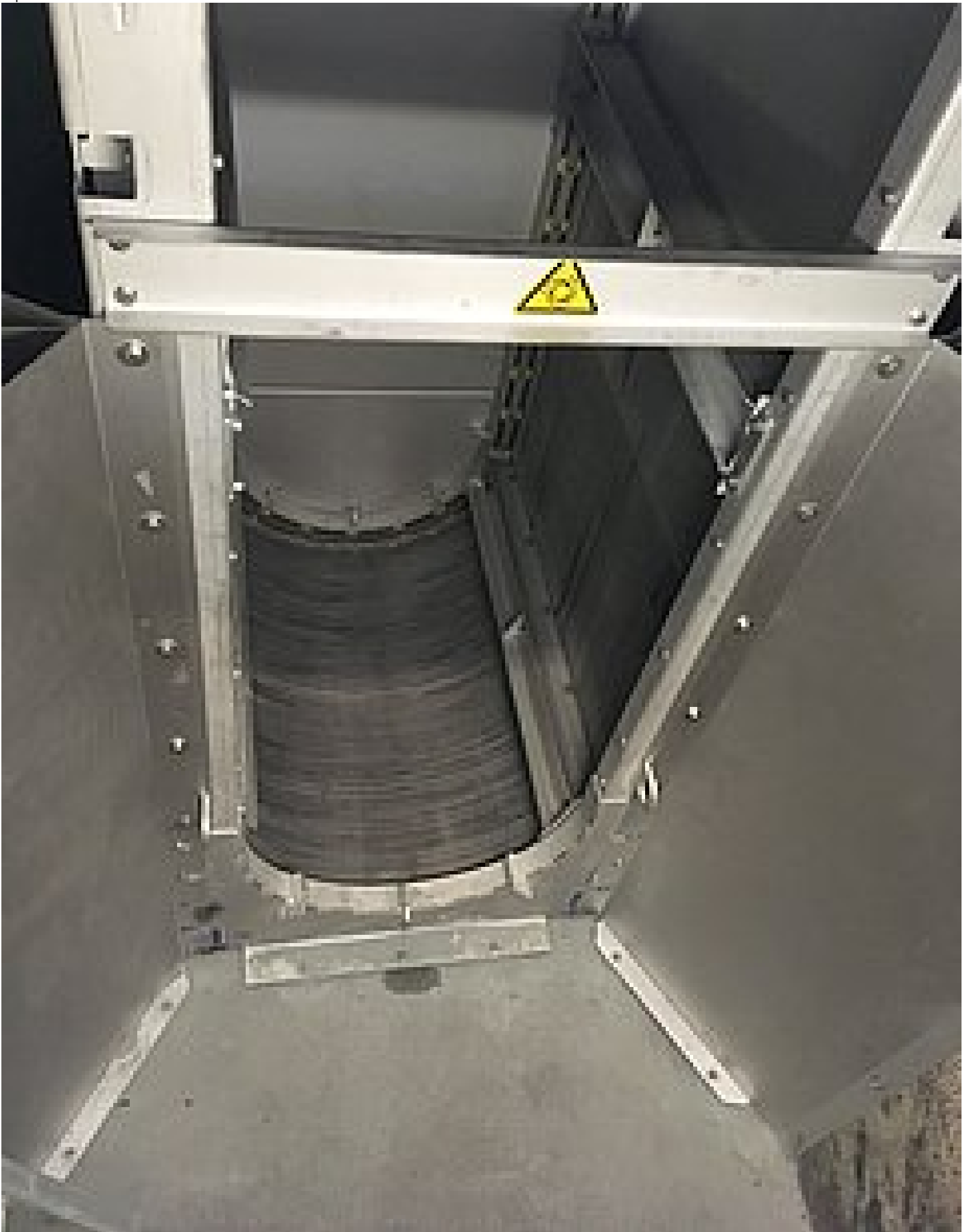
Due to its different design options the RakeMax® CF covers a very wide range of applications, allowing us to respond to the individual needs of our customers and to specific constructional and hydraulic site conditions.

Highly valued in the market and proven in thousands of installations all around the world, the HUBER Multi-Rake Bar Screen RakeMax® is well established in the market due to its versatility.

As a result of continuous development, another innovative screen type has now been designed based on the successful RakeMax® principle. The HUBER RakeMax® CF is a modified variant with a U-shaped stationary screen rack installed between the two screen frames.

The bar rack is arranged in parallel to the flow direction of the wastewater. Whilst the wastewater flows into the open front side of the screen and out through both the left and right bar rack, solids are retained on the inner surface of the U-shaped bar rack. The solids retained on the bar rack lead to gradual blinding of the bar rack surface, which has an impact on the level difference in the channel. Cleaning of the screen bars starts at a defined water level in the channel upstream of the screen. The RakeMax® CF achieves this with its cleaning elements attached to the chain system.

At the end of the bar rack cleaning cycle the cleaning elements are positively cleaned by a pivoted comb which reliably discharges the



*The U-shaped bar rack of the RakeMax® CF provides a plus in hydraulic throughput capacity.*

removed screenings into a downstream transport or disposal unit. The easy to access and maintain drive unit is installed above the channel. Due to the screen's compact design its height above floor is very low.

By developing the HUBER Multi-Rake Bar Screen RakeMax® CF, we have successfully united two proven screen designs into an innovative screening system that is unique in terms of both reliability and functionality. Due to its different design options the RakeMax® CF covers a very wide range of applications, allowing us to respond to the individual needs of our customers and to specific constructional and hydraulic site conditions.

The main benefits of the HUBER Multi-Rake Bar Screen RakeMax<sup>®</sup> CF at a glance:

- Proven technology of two screen designs combined into one
- High hydraulic throughput capacity due to U-shaped bar rack
- No submerged moving parts
- Very little space required due to vertical installation - ideal for narrow spaces and deep channels
- Rake tines fully engaging with the bar rack
- Screen rake engaging above the bar rack / water surface
- Increased separation efficiency through flow deflection in the bar rack
- An optionally integrable emergency overflow eliminates the need for an emergency bypass construction

This new development maintains the positive characteristics of the proven HUBER Multi-Rake Bar Screen RakeMax<sup>®</sup>, such as high screenings discharge capacity due to a variable number of rake tines, automatic scraper device without use of process water, etc.

The HUBER Multi-Rake Bar Screen RakeMax<sup>®</sup> CF has successfully proven its functionality in daily operation over a long time in a size 5 wastewater treatment plant. Due to positive experiences in practical operation it was possible to create and implement another innovation in the field of mechanical wastewater treatment.

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.

This is usually accompanied by a growing hydraulic load. These conditions inevitably mean that a larger hydraulic passage area must be made available. This in turn usually means that the existing screen channel needs to be widened or even a new screen house must be built, with the consequence of high construction costs.

For such cases, HUBER offers with the HUBER Multi-Rake Bar Screen RakeMax<sup>®</sup> CF another screen option for headworks. RakeMax<sup>®</sup> CF screens can be adjusted to suit specific site requirements, both structural and hydraulic, and reduce investment and operating costs.

#### **Related Products:**

- [HUBER Multi-Rake Bar Screen RakeMax<sup>®</sup> CF](#)

#### **Related Solutions:**

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

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