

HUBER Curved Bar Screen CurveMax®



Compact curved bar screen for reliable separation of solids from wastewater

- No submerged driving parts
- Low headloss due to the large effective bar rack surface



►► Design and function

The CurveMax® Screen is perfectly suited to both municipal and industrial wastewater, and process water screening. Material removal from the bar rack starts at a tangent to the channel bottom so that any accumulation of disturbing material is eliminated. The optimal approaching flow conditions and large effective bar rack surface ensure a high hydraulic throughput capacity under any operating conditions.

The curved bar rack is cleaned by a rake. Depending on the bar spacing, the bar rack design is either a bar or non-blocking wedge wire profile. At the end of the bar rack cleaning cycle the rake is cleaned by a

pivoted comb discharging the removed screenings into a downstream unit. As the cleaning velocity is variable, the screenings discharge capacity is then adjustable. This is particularly beneficiary in case of increased screenings loads, e. g. due to sudden peak loads caused by emptying of upstream stormwater tanks.

The easy to access and maintain drive unit is installed above the channel. The compact frame of the CurveMax® Screen allows for a low installation height above ground level. A mechanical linkage converts the rotating course of movement of the drive motor into a curved track.

►► The benefits of the CurveMax® Screen at a glance

- Very low headloss due to the curved bar rack extending over the full channel width
- High operating reliability due to defined meshing of the cleaning rakes with the bar rack
- No accumulation of disturbing material due to material removal from the bar rack starting at a tangent to the channel bottom
- Compact design with a low installation height above ground level
- Completely odour-encased screen with easy to remove covers
- Easy-to-retrofit into existing channels, installation without channel recesses possible
- Not hindered by gravel or grit
- Simple and easy-to-access drive unit
- All machine components in contact with the medium are made of stainless steel and acid treated in a pickling bath (except drive and bearings)
- High screenings discharge capacity through adjustable cleaning cycles
- Easy to replace bar rack for problem-free change of bar spacing
- No additional consumables except electric current required for plant operation
- Directly, electrically driven mechanical linkage, no complex hydraulic unit required
- No submerged driving parts

►► Screen sizes

Channel width: up to 2500 mm
Gerinnetiefe: up to 2500 mm
Bar spacing: 0.5 – 20 mm

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Subject to technical modification

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