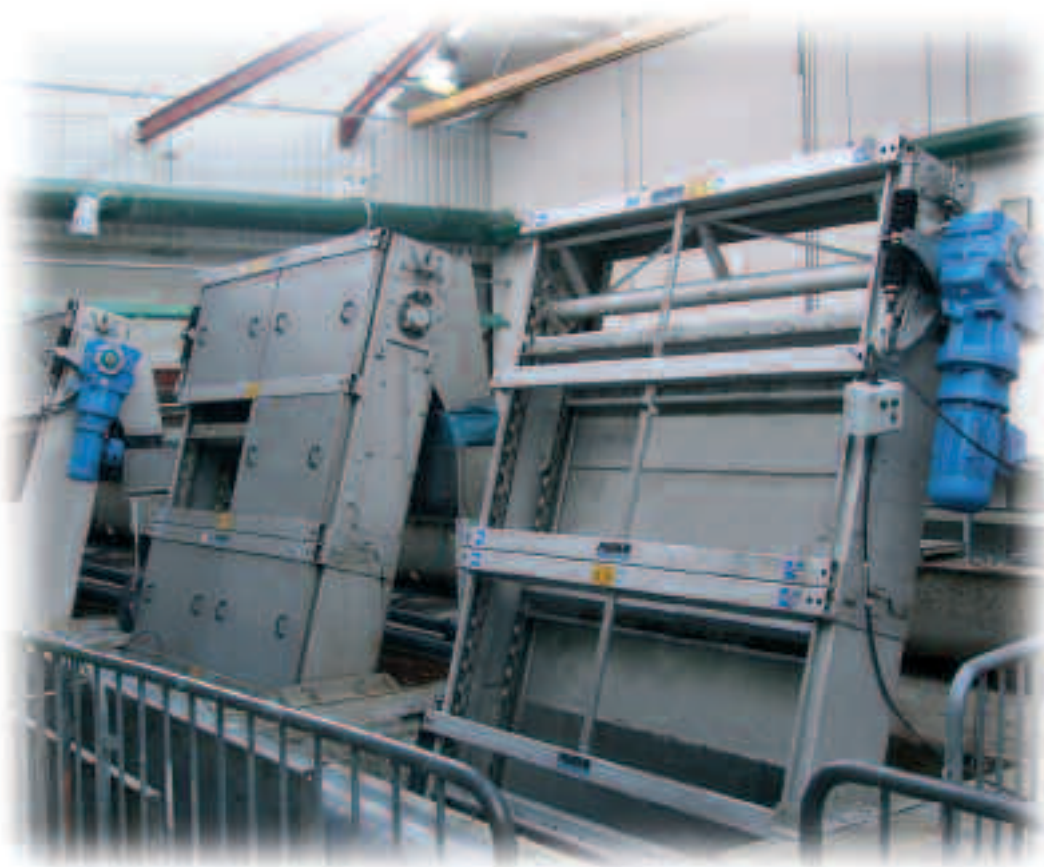


RakeMax® Multi-Rake Bar Screen



Sturdy bar screen with traveling rakes:

- for coarse to fine screening
- for combined or separate sewer systems
- for deep and very deep channels
- for high screenings loads



►► Features

The RakeMax® is a bar screen with a spacing from 1/4" to 6" (6 to 150 mm). Its bars have either a streamlined tear drop profile (spacing $\leq 1/2$ ") or a rectangular shape (spacing $> 1/2$ ").

The bar rack is an integral part of the sturdy frame, which ensures perfect meshing of the rake teeth with the bar spaces. Positive and reliable cleaning is thus guaranteed.

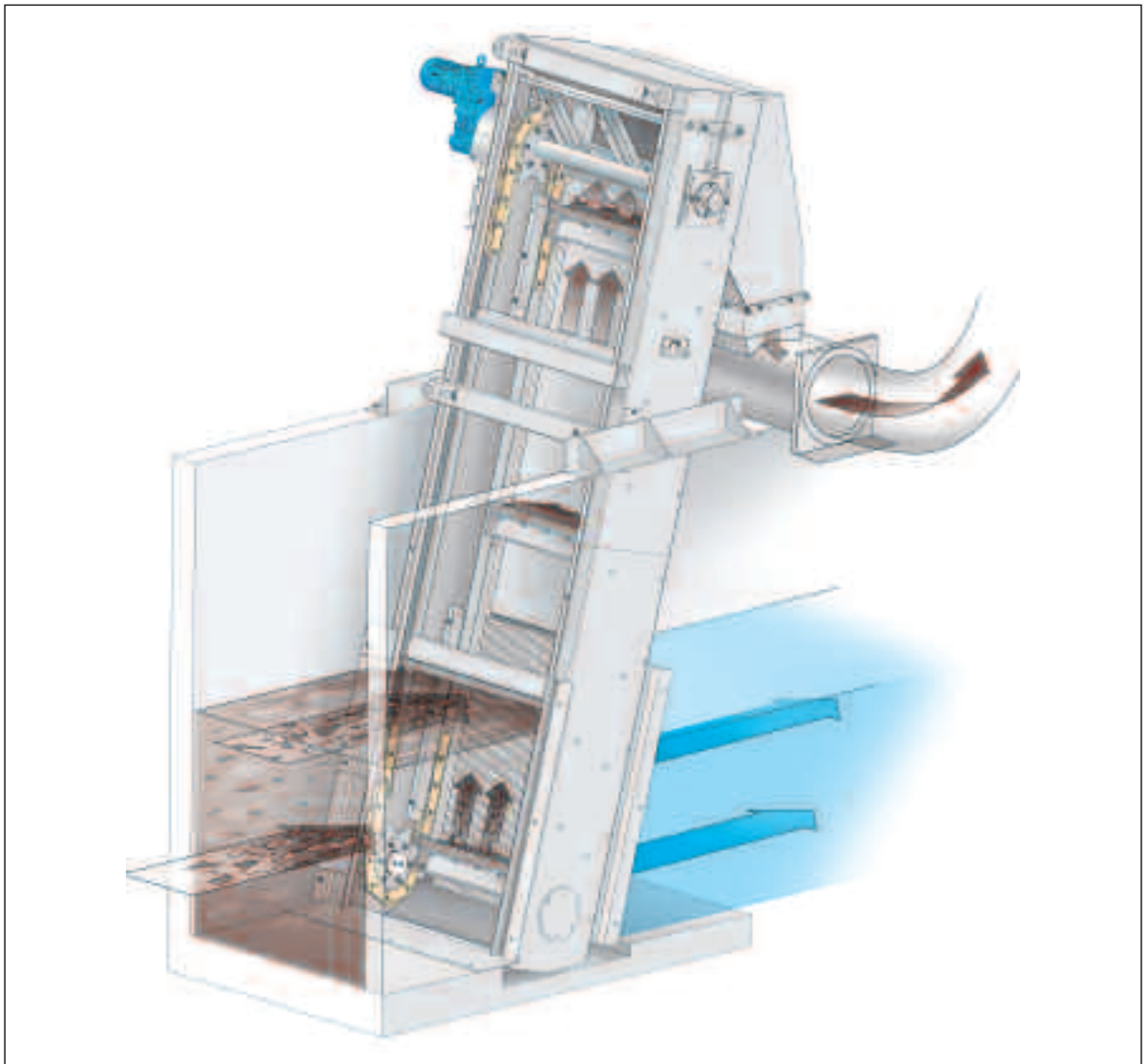
A multitude of rake bars are bolted at selectable distances to a pair of drive chains. With short distances between its rakes, the RakeMax® is able to remove extremely high screenings loads. The rake blades are made of sections that are bolted to the rake bars, thus facilitating easy replacement of a segment in case that its teeth should ever become damaged or worn.

Chain rollers, made of wear-resistant polyamide, guide the chains exactly within the frame. The chains are

driven by a pair of cogwheels. The plastic rollers also prevent wear between the chains and the cogwheels. The drive is connected through a slip coupling. If the coupling should slip due to an obstruction in the bar rack, the movement is reversed back and forth until the obstruction is loosened or an alarm is triggered. Self-destruction of the screen is thus prevented.

Chains and cogwheels are made of hardened, zinc galvanized and chromated steel to combine great wear-resistance with excellent corrosion-protection. They are also available in stainless steel. The maintenance-free ceramic bearings of the lower cogwheels are well-proven in thousands of ROTAMAT® installations.

The RakeMax® has a small height above the operating floor. In spite of its outstanding discharge height of up to 65 ft (20 m) above the channel floor, the RakeMax® fits into virtually any building.



►► Benefits

- Fine to coarse screen with low head loss
- Removal of extremely high screenings loads
- Unimpaired by grit
- Low height above operating level
- Enclosure prevents odor nuisance
- Frame-mounted bar rack for exact rake engagement and reliable cleaning
- Mechanical overload-prevention and automatic reversion
- Easily accessible chain tensioning system
- Independently replaceable rake bars and blade sections
- Well-proven, maintenance-free lower ceramic bearings
- Sturdy design, excellent manufacturing with small tolerances
- Made of stainless steel, pickled in an acid bath for perfect finishing and corrosion protection

►► Details



Traveling rakes are bolted to the drive chains; individual sections of the rake blades can be exchanged in case that teeth should become damaged or worn; the ceramic bearings are maintenance-free (no lubrication)



Cog wheel and chain are made of hardened, wear-resistant steel that is zinc electroplated and chrome galvanized for long-term corrosion protection; alternatively, wheels and chains can be made of stainless steel



Bar rack with a spacing of 1/4 inch (6 mm); the bars have a streamlined tear drop profile resulting in low head loss and avoiding jamming; RakeMax screens are unimpaired by grit and gravel



A control-independent safety system (torque compensator) reliably protects the screen against damage giving an electric signal. The specific design principle ensures high adjustability and continuous control.

►► Installation Examples



60 ft long and 6 ft wide RakeMax after successful factory testing



Complete enclosure for odor protection; the chain tensioning system is visible at the side of the frame

►► Applications

The RakeMax® is the ideal screen for the following applications:

- Combined sewer systems
- Deep to very deep channels
- High screenings loads
- Combined sewer overflows (CSO) and sanitary sewer overflows (SSO)

►► Dimensions

| | |
|---------------------------------------|--------------------------|
| Bar spacing: | 1/4" to 6" (6 to 150 mm) |
| Channel width: | Up to 13.1 ft (4 m) |
| Discharge height above channel floor: | Up to 65 ft (20 m) |
| Inclination: | 70° to 80° |



1/4 inch (6 mm) RakeMax feeding into a Super-Launder Washpress WAP/SL for perfect screenings washing and compaction

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Subject to technical modification

HUBER
RakeMax® Screen