

HUBER Belt Screen EscaMax[®] Perforated Plate Screen



Versatile inlet screen

- Excellent separation efficiency due to its perforations
- Reliable cleansing of the perforated plates with a rotating brush
- Very compact system with minimum space requirements
- Easy-to-retrofit into existing channels

►► Design and function

The HUBER Belt Screen EscaMax® complements the well-known HUBER program for municipal and industrial wastewater screening, as it is particularly well suited in situations where excellent separation efficiency is required in deep channels with high water levels.

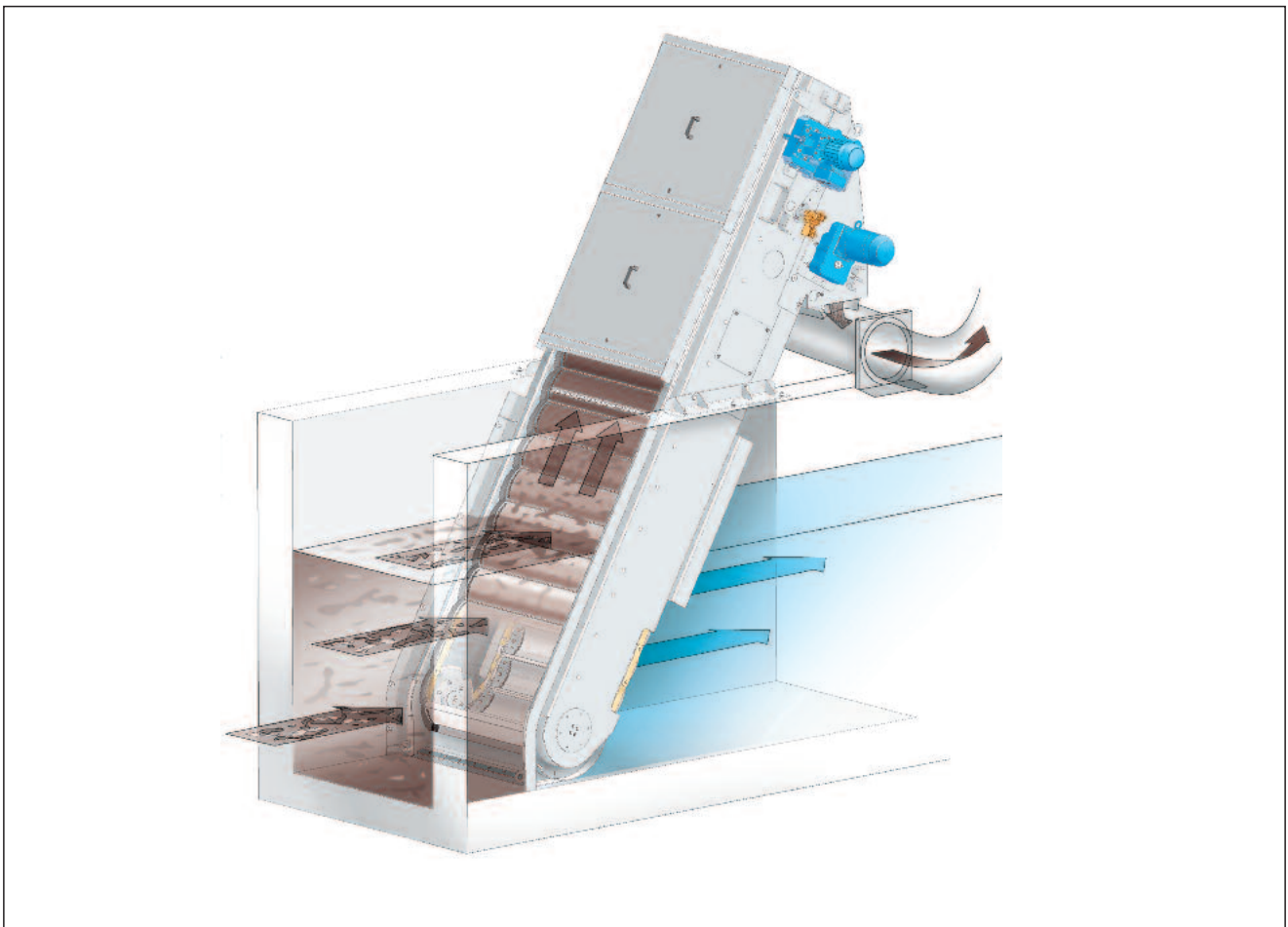
Perforated screening elements provide superior separation efficiency in comparison with slit screening elements. It has been determined that two-dimensional perforations are better than one-dimensional slits.

Formation of screenings rolls is prevented by rake bars extending over the full width of the screen in combination with the screen's installation angle. Even cans and bottles are lifted by these rakes.

Each end of the perforated plates is connected with a drive chain. Each chain is driven by a sprocket on a common shaft and a flange mounted gear motor.

At their upper turning point the perforated plates are continuously cleaned by a fast counterrotating brush which increases the cleaning energy and thus significantly improves the cleaning efficiency. Cleansing is supported by an integrated spray bar.

The sturdy HUBER Belt Screen EscaMax® is able to reliably cope with even high amounts of gravel and grit. The two-dimensional screening elements prevent especially long fibres from passing through the screen and achieve thus the maximum separation efficiency.



Flow diagram of a HUBER Belt Screen EscaMax®

►► The challenge – Our solution

We have been challenged to provide screens combining ever increasing separation efficiency with operational reliability. The EscaMax® Screen is our answer to this challenge.

State-of-the-art design of a perforated plate screen that guarantees the highest efficiency, low

maintenance and long life required attention to every detail.

Our Perforated Plate Screen EscaMax® sets new standards, due to its innovative features.

►► Functional details of the HUBER Belt Screen EscaMax®

Innovative cleaning system with a rotating brush

The distinctive feature of the innovative **perforated plate cleaning system** compared to other state-of-the-art systems is its significantly improved efficiency due to its special arrangement and counterrotating brush.

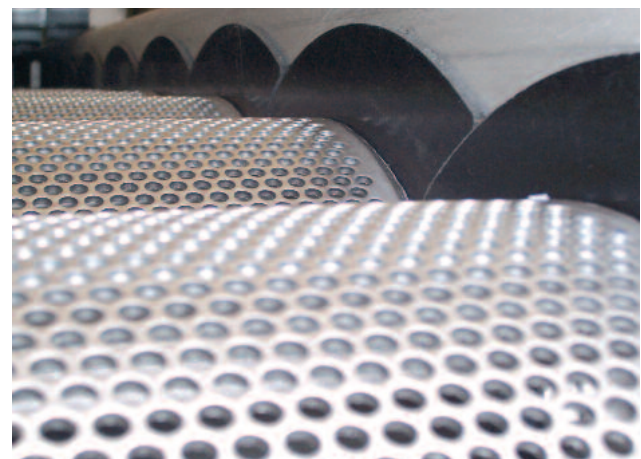
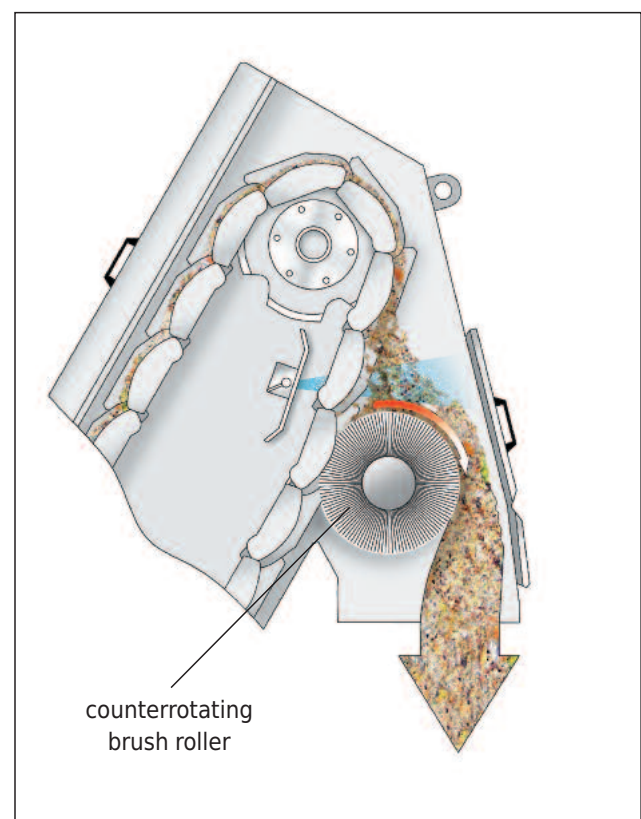
Other systems require an additional scraper roller to remove screenings from the trough edge.

A counterrotating brush eliminates this problem so that no additional scraper roller is required for trough edge cleaning.

Wear-resistant plastic elements ensure proper **sealing between the travelling screening elements and the frame** whilst the perforated plates are moving. The connection between the plastic and screening elements is designed to allow quick and easy replacement.

The submerged chain wheel bearing consists of a highly wear-resistant and maintenance-free ceramic bearing which has proven its reliability for years in our grit washing plants.

The drive chain is made of hardened wear-resistant steel. The chain and chain wheels are electrogalvanised and yellow chromated for durable corrosion protection. As an option, the chains and chain wheels are available in stainless steel.



➤➤ The benefits of the EscaMax® Screen at a glance

- Excellent separation efficiency due travelling perforated plates
- Reliable cleansing of the perforated plates with a rotating brush
- No scraper roller for trough edge cleaning required
- All submerged bearings are wear-resistant ceramic bearings.
- 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
- The screen consists of a self-supporting folded stainless steel profile so that it can easily be lifted out of the channel.
- Not hindered by gravel or grit
- Simple and easy-to-access chain tensioning unit
- All machine components in contact with the medium are made of stainless steel and acid treated in a pickling bath (except chains, drives, bearings). As an option, the chains and chain wheels are available in stainless steel.

➤➤ Installation examples



Rear view of the HUBER Belt Screen EscaMax® with subsequent laundry channel for wear-free screenings transport



Fully enclosed, odour-free screen with easy to remove covers

➤➤ Screen sizes

Channel width: up to 3000 mm
 Discharge height: up to 9500 mm

Perforations: ≥ 3.5 mm
 Installation angle: 45° - 70°

HUBER SE

Industriepark Erasbach A1 · D-92334 Berching
 Phone: + 49 - 84 62 - 201 - 0 · Fax: + 49 - 84 62 - 201 - 810
 info@huber.de · Internet: www.huber.de

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