



Advantages of the RotoSieve® Perforated Rotary Drum Screen

Experience

- ◆ The RotoSieve group has been involved in the design and supply of Rotary Drum Screens for more than 45 years.
- ◆ Over 4000 units supplied to both municipal and industrial plants worldwide.
- ◆ RotoSieve screens are proven by an independent engineering firm as a preferred and operationally dependable screen for MBR pre-treatment. Accredited in Title 22 MBR testing in California on several different types of MBRs.
- ◆ RotoSieve Screens are installed in twenty (20) MBR Plants in the USA with a total of thirty-seven (37) screens.
- ◆ Worldwide, RotoSieve is installed in over 50 MBR Plants with a total of 130 screens.
- ◆ One of the largest MBR projects in the world (China) uses RotoSieve screens to protect their membranes – 70 MGD Peak Flow Rate.

Simple, Effective Design

- ◆ No vertical or slotted seals of any kind that would result in pass through – all flow must pass through a perforated hole to reach the downstream process.
- ◆ The advanced carbon fiber polychain drive system eliminates the need for trunnion wheels. This significantly lowers required maintenance and improves reliability.
- ◆ No chains of any kind results in less maintenance issues. No need for automatic oilers.
- ◆ Parts easily changed without removing equipment from site - no special lifting equipment or tools required.
- ◆ Lowest number of moving parts of any drum screen on the market today.
- ◆ Proven reliable construction and mechanical operation.
- ◆ Very low power consumption.

Strongest Drum Design

- ◆ Strength achieved by unique/innovative design.
- ◆ Perforated drum available with 0.6 to 3mm – the best solution for fiber/hair removal.
- ◆ Larger perforations available for specific applications.

Most Effective Drum Cleaning

- ◆ Unique friction driven roller brush keeps perforated holes clean without the use of a constant spray wash. This results in significant water savings.
- ◆ Intermittent spray wash can result in 90% water savings over competitors that use a constant spray.
- ◆ Brush life of 5 – 7 years.

Performance

- ◆ Guaranteed removal of all solids larger than the drum perforation.
- ◆ Highly efficient at removing small chain fibers and hair - +95%
- ◆ Guaranteed that no material will weave (staple / hair pinning) into the perforated drum screen element causing permanent blinding.

Low Headloss

- ◆ No fouling factor.
- ◆ No penetration of the screen element.
- ◆ Headloss is the elevation difference between influent and effluent.