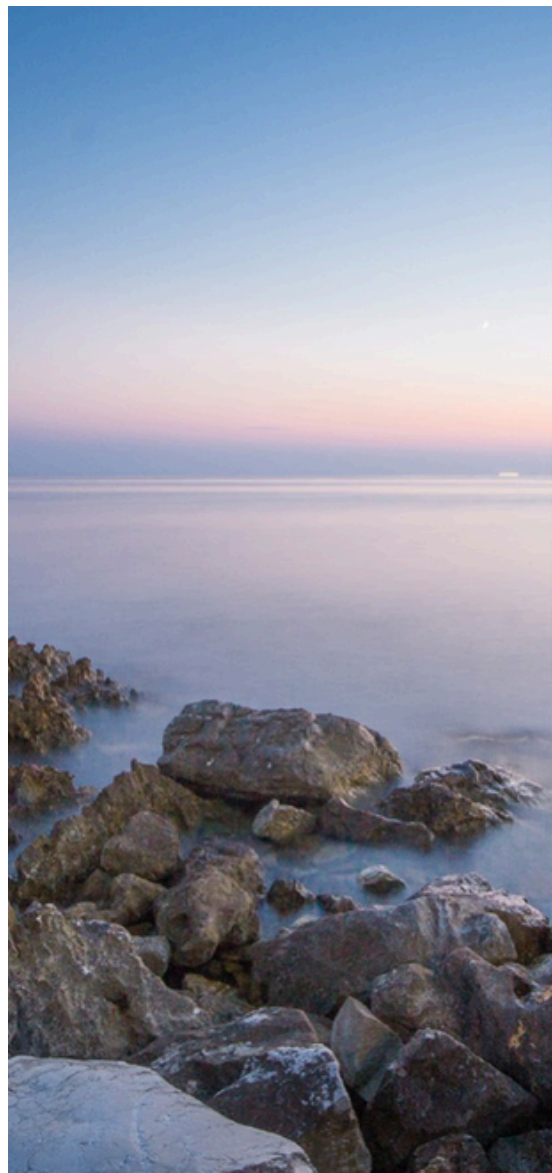


Water and wastewater solutions

## MevaScreen coarse and fine screen solutions





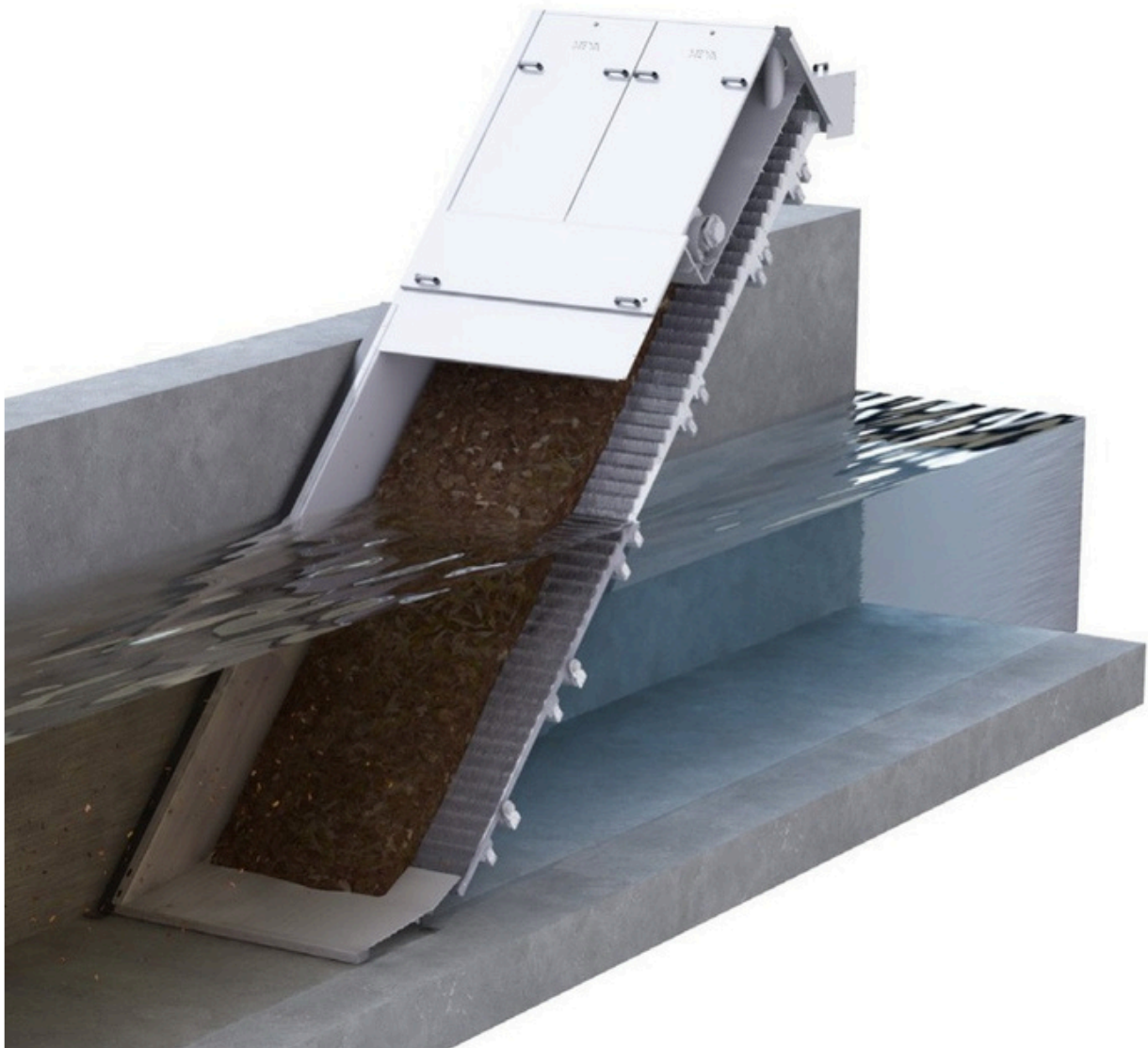




# How MevaScreen RSM works

Designed for channel installations up to 2'000 mm in width, the MevaScreen RSM offers discharge heights up to 4.5 meters, with a slot width 1-6 mm. The unique, patented design offers several advantages, especially at the lower levels below the water's surface. The MevaScreen RSM has a motion that ensures a high rate of capture for debris and ensures a uniform slot width over the entire screening surface. The progressive step motion of the screen transports a small part of the screenings mat during each cycle, minimizing the 'rush' of water that is often seen with more traditional designs.

As debris collects on the bars, the build-up of materials helps to trap smaller particles, forming a mat that is gradually elevated from the water stream and into a collection chute. The design of this state-of-the-art screen also minimizes the risk from blockage by sand and grit. The MevaScreen RSM operates intermittently based on a preset upstream water level, which is monitored by a sensor above the inlet channel. Once the level drops to a predetermined point, the screen motion stops. The design offers the highest separation degree of solids on the market.



# Features and benefits

## MevaScreen RSM

### Efficient movement

This state-of-the-art, progressive step screen employs a patented design to deliver unmatched performance in wastewater screening. The MevaScreen RSM has a motion that ensures a uniform slot width over the entire screening surface. The unique linkage geometry ensures screenings are moved along the complete length of the bars, minimizing the 'rush' of water that is often seen with more traditional designs

### Environmental sustainability

Sulzer's environmental credentials are also on show – In addition to the energy savings, the MevaScreen RSM also uses low-friction bar spacers, boosting sustainability with an expected product life in excess of 20 years. In addition, the self-cleaning design of the screen means there is no need for the rotating brushes or spray bars seen in other screen technologies.

### High energy efficiency

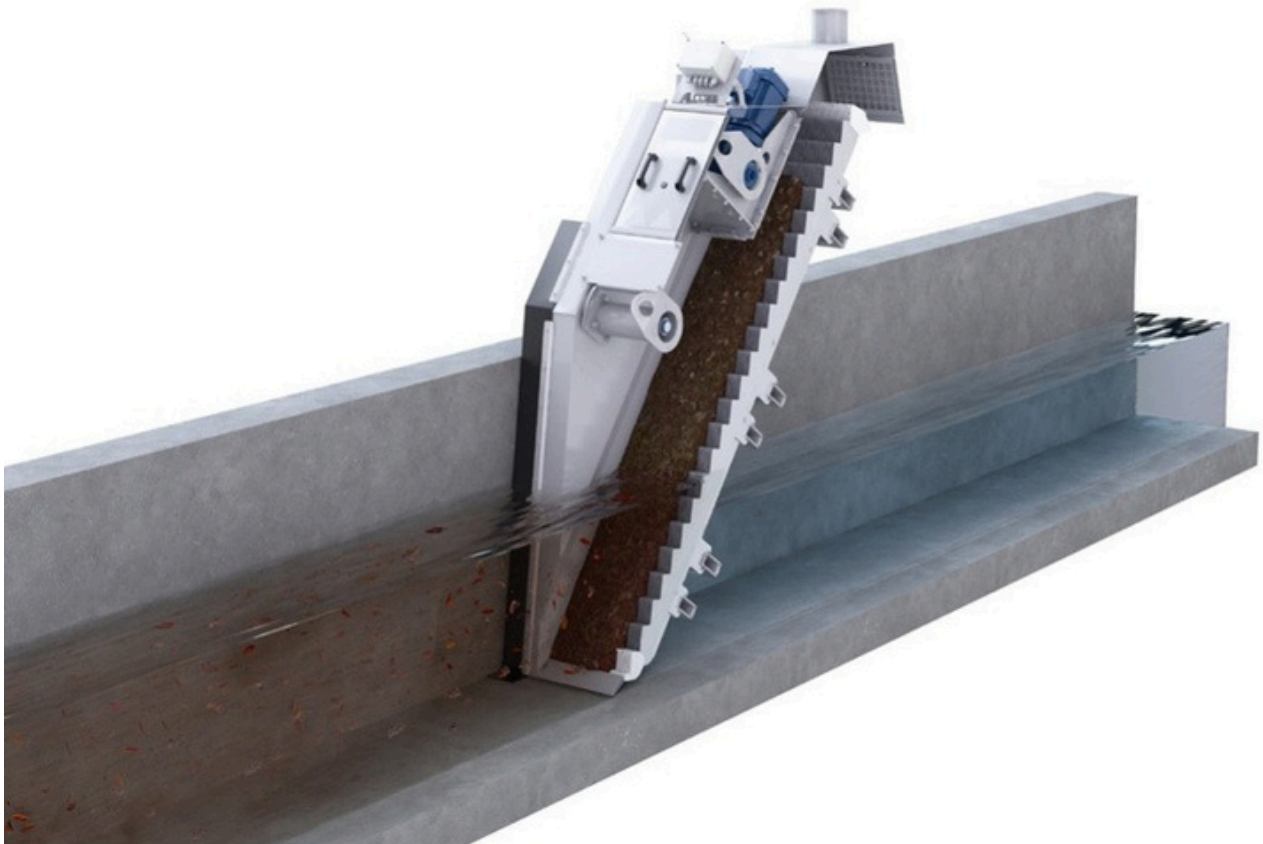
The efficiency of movement is mirrored in the excellent energy efficiency of the MevaScreen RSM. The patented pulse operation provides fewer running hours, which results in reduced energy consumption as well as less mechanical wear. The high screen capture rate delivers a very efficient removal of more than 80% of debris from the water flow.



# How MevaScreen RS, DS works

Designed for channel installations up to 2'000 mm in width, the MevaScreen RS offers discharge heights up to uniform slot width during operation. This is achieved by a robust bar fixing and intermediate, low friction spacers, every screen is fully enclosed and equipped with a ventilation connection. The screen also has an automatic anti-blockage protection at the channel bottom, which makes it resistant to sand. For maintenance, the screen slot widths between 2 and 6 mm, this compact solution can be pivoted and is easy to clean down without removing any of the connected equipment. The MevaScreen RS, DS operate automatically and are controlled by level sensors placed in the channel.

efficiency. The design includes a self-cleaning screen area, which does not require rotating brushes or wash water, as well as low friction bar spacers that extend the life of the bars. The MevaScreen RS are self-cleaning fine screens for separating solids from water. Designed to have a very low flow resistance, the screens offer the highest relative capacity of any screen on the market, making them ideal for channels with gravity flow. The RS uses a chain drive mechanism. The DS operates with a unique, chain-less drive.



# Features and benefits

## MevaScreen RS, DS

### Blockage-free operation

The MevaScreen RS, DS has automatic anti-blockage protection to prevent sand in the channel bottom from causing problems.

### High energy efficiency

The large hydraulic capacity and optimized design result in fewer operating hours and less mechanical wear. Typical annual operating time is only 200 to 250 hours, reducing operating costs and improving sustainability.

### Sustainable product design

The low friction bar spacers, which are used to extend the life of the screen bars, support an expected service life of 20+ years. The first RS screen was delivered 33 years ago and is still in operation.

### Environmental

The self-cleaning screen area is designed to discharge waste into a compactor/conveyor without the need for rotating brushes or spray water as in other competing technologies. This simplifies operation and reduces energy consumption.





# How MevaScreen MRS works

Designed for channel installations up to 3'000 mm in high hydraulic capacity with very low head loss. The width, the MevaScreen MRS offers discharge heights up to optional curved bars (MRS C-BAR) improve the removal to 20 meters with a slot width 6-50 mm. The of stones and gravel that has built up during first flush MevaScreen MRS is a multi-rake design for installation situations. The MevaScreen MRS can operate as a with high screening loads or difficult operating course or a fine screen with a slot width down to 6 mm. conditions. The robust design ensures reliable function. The curved bars mechanically clean the bar screen, and low maintenance. The unique lower sprocket design removing solid materials from the water stream. For shreds and tears fibrous materials that could otherwise more challenging installations, the screen can be jam the driveshaft and chain guide while the low blind delivered in modules to simplify transportation and

zone delivers



assembly. The screen is controlled automatically, using a level sensors in the channel that start and stop the screen at pre-determined levels. The discharge scraper is fitted with a polyethylene wear section that can be easily replaced. In fact, the whole design makes maintenance and repairs a simple process. There is no need for brushes or spray water, while rake sections and bars are individually replaceable. The drive motor is monitored electronically for optimum performance and the screen can also operate in reverse to prevent blockages.

# Features and benefits

## MevaScreen MRS

### High reliability

The unique clog-free lower sprocket design shreds and tears fibrous material that otherwise could block the driveshaft and chain guide interrupting the operation of the screen. The self-cleaning screen minimizes complexity without the need for a rotating discharge brush.

### High durability

The heavy-duty construction and high-quality materials of the MevaScreen MRS ensure a long service life. The modular design enables simplified logistics and on-site assembly. The long-life chain, which is fitted as standard, and individually replaceable bars simplify maintenance and reduce operating costs.

### Environmental

The self-cleaning discharge design eliminates the need for rotating brushes or wash water, keeping operating costs to a minimum. Reduced energy consumption and high efficiency motors help to reduce the environmental footprint of this vital equipment. The encapsulated design with a ventilation connection eliminates any odor issues, minimizing any nuisance for operators and neighbors.



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