

Filterscreen



*FSM ...
Good Ideas
bring Success!*





FSM – Filterscreen

...meets the most demanding specifications

The FSM filterscreen was developed to deal with particular problems associated with sewage pre-treatment plant.

Following successful trials, the first installation was equipped with this product in 1987.

Parallel to the increasing demands of users, FSM introduced modifications to the basic design. These have resulted in an optimum product for the preliminary treatment of waste water -providing high performance coupled with low operating costs. Thus, cleaning by brushes has been continually developed so as to keep the demand for service water to a minimum. Over 1000 machines have been supplied worldwide.

Construction of the screen:

The waste water flows through perforated filter elements made of stainless steel, while contaminants are held back. Solid matter is picked up directly at the bottom of the channel without necessarily requiring a base step. The filter elements form a continuous filter belt which is cleaned by a brush at the upper deflection point. The cleaning process is assisted by a series of jets working in proportion to the screenings load. Tines located on every 5th screening element prevent build-up of rolling matter in front of the screen and ensure that large matter is removed. The sheet steel side plates of the filter elements slide on plastic rails on the screen frame, thus forming a seal and preventing screenings from being washed past the screen at the sides.

As a result of the half-round shape of the filter elements and the arrangement of the cleaning brush at the upper deflection point, the distance between the brush and the filter element remains constant.

This constant distance ensures very effective cleaning combined with low wear of the brush.

At the turning points of the chain drive, the filter elements are in contact with one another via their sealing areas. The gap between the elements thus remains constant and small at all times during the rotation cycle, including at the upper and lower deflection points.

Official, independent tests have shown that FSM screens with a hole size of 6 mm approx. filter out double the amount of screenings as a stage screens with 6 mm gap size. The screenings retention figure of an FSM screen with 6 mm holes is of the order of 76%.

The efficiency of FSM filterscreens prevents build-up of screenings and clogging up in the clarification plant and thus avoids time-consuming and costly measures to deal with these disturbances.





Features:

- High reliability through robust construction – no need for upstream coarse screening
- The filterscreen allows the passage of grit without malfunctioning.
- Discharge of grease in large quantities presents no problem.
- Highest possible cleaning effect via perforated filter elements.
- Discharge of coarse matter through tines on the filter elements.
- Filter elements optimally cleaned as result of their shape (segment of circle).
- Screenings conveyed positively to the discharge point.
- Excellent cost/performance ratio
- Low maintenance costs
- Suitable for outdoor sites/operation in winter
- Easily adapted to suit changed operating conditions
- Machine completely hygienically encapsulated
- The FSM filterscreen has proved itself in hundreds of applications at home and abroad





Dimensions:

- filter width 300 to 3000 mm
- shaft center distance up to 11000 mm, larger sizes on request
- filter element hole size 2, 3, 5, 6, 8, 10, 12 mm, other sizes on request
- water level difference up to 2000 mm possible, larger differentials on request
- mounting angle 75°, 60° or 50°, other angles on request

Materials / makes

- machine frame
- filter element
- chains
- chainwheels
- chain supports
- base sealing
- side sealing
- filter belt cleaning
- drives

stainless steel 1.4301 or 1.4571, other materials on request
 stainless steel 1.4301 or 1.4571, other materials on request
 bush conveyor chain of wear resistant steel or wear resistant stainless steel
 wear resistant steel or wear resistant stainless steel
 plastic
 double brush sealing
 plastic
 rotary brush segments of PP or nylon
 worm geared motors, make SEW

Applications in municipal and industrial clarification plant

- waste water pre-treatment / fine screening
- pumping stations
- pre-screening before diaphragm installation
- sludge screening / secondary sludge
- sludge screening / primary sludge
- sea water treatment
- rainwater tank overflow and storage channel screening
- septage reception and treatment





Applications in the paper and cellulose industry

- wash water, unbarking installations
- coarse matter runoff, channel water

Applications in power stations

- cooling and service water screening (river intake etc.)
- sea water screening

Industrial applications

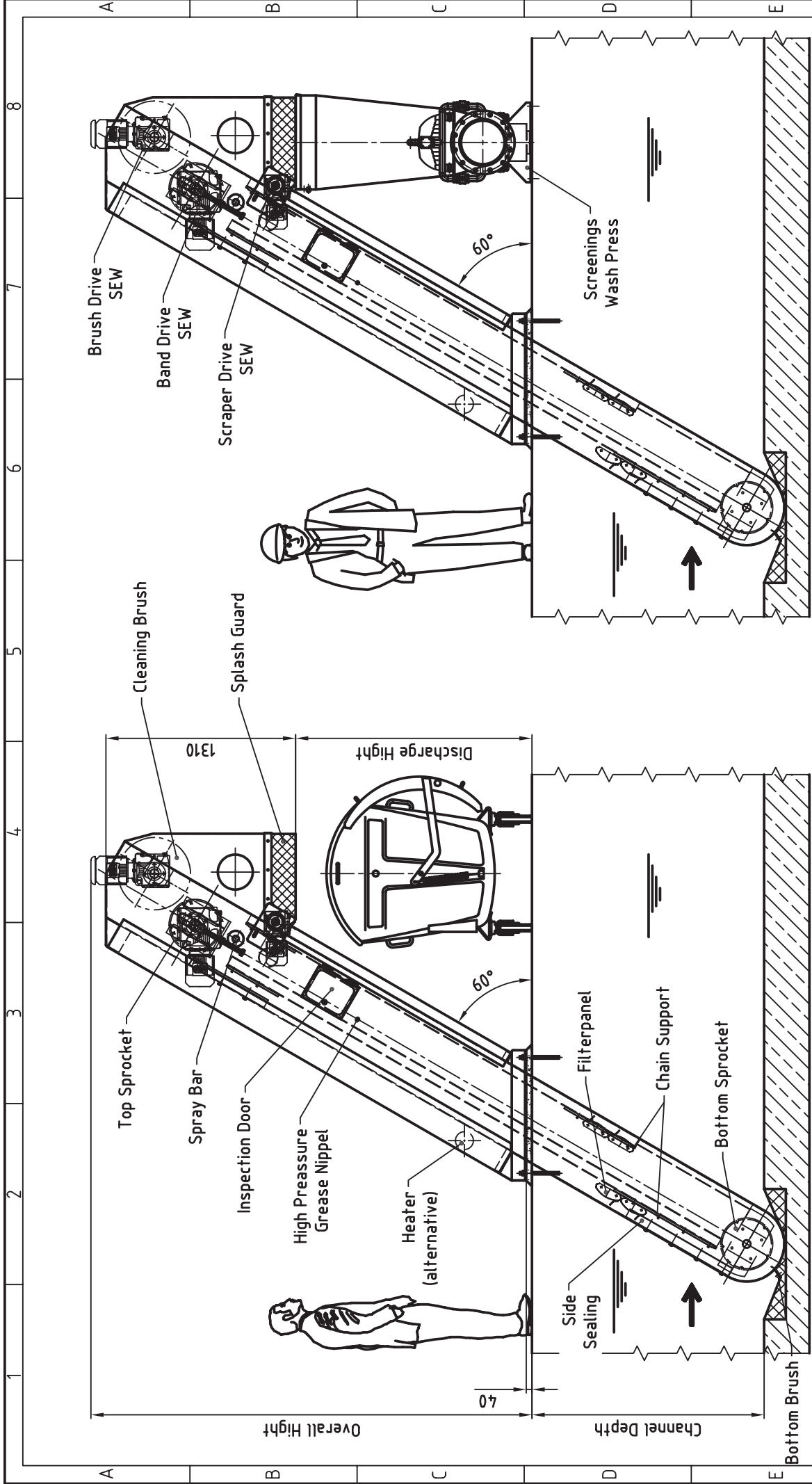
- cooling and waste water screening (river intake etc.)
- sea water screening
- textile and textile finishing industry –preliminary clarification of total waste water
- meat, fish and poultry processing / slaughterhouses – preliminary clarification of total waste water
- sugar industry - preliminary clarification of total waste water
- composting installations, waste product and disposal engineering, seepage water treatment
- fruit and vegetable processing – preliminary clarification of total waste water
- breweries– preliminary clarification of total waste water
- animal processing– preliminary clarification of total waste water removal of algae

References

Many installations in large clarification plants at home and abroad demonstrate the capability and efficiency of FSM screens. Please contact us for references in your area.

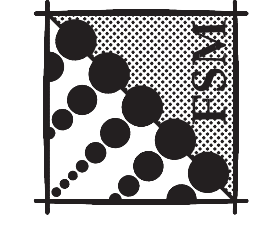






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Oberfläche		Maßstab		Position		Menge	
Name		Datum		Bearb.		Gepr.	
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						03.01.2006	

FSM - Filterscreen FRS-2 60°



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