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**FSM Frankenberger
GmbH & Co. KG**

Equipment for Water
and Waste Water
Inlet Works



Grab
Bar Screen



FSM Frankenberger GmbH & Co. KG
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FSM Grab Bar Screen



The FSM coarse bar screen has been in operation all over the world for over 30 years.

Parallel to the increasing demands of users, FSM introduced modifications to the basic design. These have resulted in an optimum product for coarse cleaning of waste water - providing high performance coupled with low operating costs. The FSM coarse bar screen thus offers ideal protection for pumping and fine screening installations.

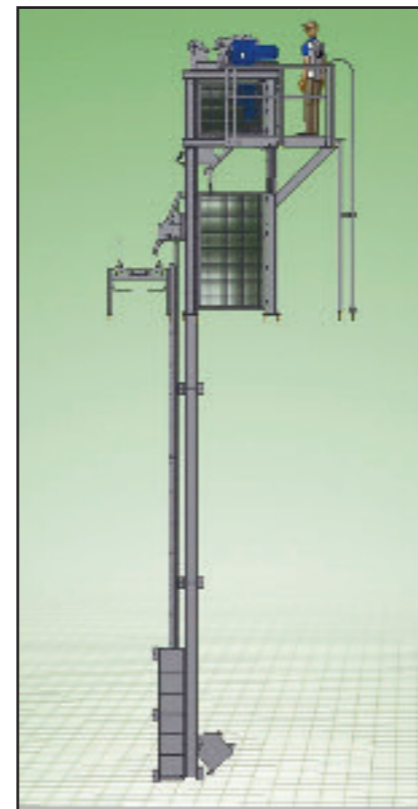
Functional principle:

The waste water flows through a bar screen made of steel or stainless steel, while screenings are held back. Solid matter is picked up by our special grab directly at the bottom of the channel without the need for a base step. The teeth of the grab act between the bars of the screen thus preventing jamming of the screenings. A pivoting scraper discharges the screenings into a container, wash compactor, screw conveyor, conveyor belt etc. Opening and closing of the rake is achieved by a drive or a guide track.

The position of the rake is controlled by a rotary selector switch. Thereby different positions on the screen field can be reached by the rake. For digger operation the rope is controlled by a slack rope weight.

Features:

- High reliability through robust construction
- The coarse bar screen allows the passage of grit without malfunctioning
- Screenings are prevented from falling back on the screen by a sheet steel apron
- Screenings conveyed positively to the discharge point
- Secure guiding of grab shovel via double bearing arrangement
- Excellent cost/performance ratio
- Low maintenance costs
- Suitable for outdoor sites / operation in winter
- Easily adapted to suit changed operating conditions
- If required, machine can be completely hygienically encapsulated
- The FSM coarse bar screen unit has proved itself in practice at home and abroad



Applications in municipal and industrial clarification plant

- waste water pre-treatment / coarse screening
- sea water treatment
- rainwater tank overflow and storage channel screening
- supply pumping stations
- protective installations for downstream equipment cleaning of streaming water

Applications in the paper and cellulose industry

- wash water, debarking plants
- 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
- animal meal production - preliminary clarification of total waste water

Dimensions:

screen width	800 bis 8000 mm, larger widths on request
channel depth	up to 10000 mm, larger depths on request
gap width	10 mm to 100 mm, larger widths on request
mounting angle	75° or 90°, other angles on request

Material/make:

machine frame	galvanised steel, stainless steel SS304 or SS316, other materials on request
bar screen	coated steel, stainless steel SS304 or SS316, other materials on request
guides	galvanised steel, stainless steel SS304 or SS316, other materials on request
grab shovel	coated steel, stainless steel SS304 or SS316, other materials on request
grab teeth	special steel, from excavator application available
drives	worm geared motors, make SEW
use with sea/brackish water	sea water resistant material for machine frame, screen, grab shovel and guides on request