



Filter step screen



*FSM ...
Good Ideas
bring Success!*





FSM – Filter step screen

...meets the most demanding specifications

Functional principle:

The screening grid consists of a fixed step grid rack and a moving step grid rack (shifting grid). The shifting grid is connected to the two crankshafts of the drive via two connecting rods.

The drive mechanism consists of a spur geared motor driving the two crankshafts via a set of chainwheels and a duplex chain.

When in operation, the shifting grid performs a circular motion and thus conveys the collected screenings one step higher with every revolution of the crankshaft.

The stripping operation is similarly performed in a continuous way, the screenings being conveyed directly to the wash compactor or to a conveyor.

Cleaning of the grid occurs in reverse flow, which enables an exceptionally effective and unproblematic cleaning effect to be achieved.

There is no need to swing the screen out of position as the complete unit is mounted above the flume.

The lammellar grids are extremely robust, being made of 4 mm material.

Features:

- High operational reliability via robust design
- Grease in large quantities can be discharged without difficulty
- No need for additional cleaning equipment
- Screenings are positively conveyed 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





Dimensions:

- Filter width 200 to 1500 mm
- Channel depth up to 2000 mm, larger sizes on request
- Slot opening 3 – 10, other sizes on request
- Mounting angle 45° other angles on request

Material / makes:

- Machine frame stainless steel 1.4301 or 1.4571
- Filter element stainless steel 1.4301 or 1.4571
- Drives worm geared motors, make SEW
- use with sea/brackish water sea water resistant material for machine frame, filter elements, chains, chainwheels

Applications in municipal and industrial clarification plant

- waste water pre-treatment / fine screening
- sludge screening / secondary sludge
- sludge screening / primary sludge
- sea water treatment
- rainwater tank overflow and storage channel screening
- fecal matter reception and treatment

Applications in the paper and cellulose industry

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

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 meal production- preliminary clarification of total waste water
- removal of algae





FSM Frankenberger GmbH & Co. KG Germany

Vor dem Hohen Stein 1 · D-35415 Pohlheim/Garbenteich
Telefon: +49(0) 6404/9194-0 · Telefax: +49(0) 6404/9194-91
info@fsm-umwelt.de · www.fsm-umwelt.de



MENA WATER FZC

P.O. Box: 120881, Sharjah SAIF Zone – U.A.E.
Tel.: +971-6-5575507, Fax : +971-6-5575508
info@mena-water.com - www.mena-water.com