



**Grit separator**



*FSM ...  
Good Ideas  
bring Success*





## FSM – Grit separator

...meets the most demanding specifications

The FSM grit separator is used to separate solids from water. The unit can be charged via air jet lift, pump or free flow.

The FSM grit separator consists of a separating container and a screw conveyor. Application areas range from municipal sewage plant to separation of sediment and heavy materials in production and process waste water in the chemical, food, paper and waste disposal industries. The grit separator provides **high performance coupled with low operating costs**.

### Function:

Inflow of the grit/water mixture can be either under pressure or via gravity line. The tangential feed induces a rotary movement in the water which causes the heavier substances such as sand to sink to the apex of the funnel, where they are removed and dewatered via the screw conveyor.

The grit is thus rendered substantially free of organic matter.

The FSM grit separator effects a continual separation of the grit from the waste water flow while reducing the organic portion of the solids and dewatering the grit.

### Features:

- High reliability through robust construction
- If required, the grit separator can be constructed so that conversion to a wash separator can be carried out at a later date
- The unit can be extended to include an input station for channel grit and street sweepings
- Feed rate of up to 50 l/s possible
- 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 grit separator has proved itself in practice at home and abroad





### Dimensions:

- length/width/height 5200 / 2200 / 3120 mm
- throughput up to 30 l/s
- length/width/height 6700 / 2100 / 3500 mm
- throughput up to 50 l/s

### Material / makes:

- machine frame stainless steel 1.4301 or 1.4571
- conveyor screw special steel
- drives worm geared motors, make SEW

### Applications in municipal and industrial clarification plant

- waste water pre-treatment / grit treatment
- grit dewatering
- classification
- circular degritter installations up to 25 l/s infeed

### Applications in the paper and cellulose industry

- high resolution cleaner rejects

### Industrial applications

- meat, fish and shellfish processing / slaughter houses – preliminary clarification of total waste water
- sugar industry – preliminary clarification of total waste water
- 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
- compost installations, waste product and disposal engineering, household and industrial refuse, garden refuse and compost, seepage water treatment
- machinery industry – metal swarf conveying
- glass and ceramic industry





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