



Specialized in environment Technology **since 1970** 



### The specialists for environmental technology

Machines for water and wastewater treatment

#### **Functionality of the** Grit wash unit:

The grit/water mixture is fed in via the inlet flange of the grit wash tank. Organic matter is held in suspension and floated off while the grit is sedimented in the tank. With the addition of water, the sedimented grit is separated from the remaining organic constituents using a stirring device and up-current technique. The grit is removed from the tank, de-watered and discharged via a discharge screw.

With the addition of a bunker at the upstream side, the FSM grit wash unit can be extended to become a reception station for sewer grit. If a fractionating and washing drum is positioned between the bunker and the wash unit, the installation can be additionally used for conditioning street sweepings.

#### Advantages:

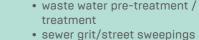
- High reliability through robust construction
- Can be used with upstream coarse screen
- Service water which is substantially free of COD and BOD can be used as wash water
- The grit washer separator can be optionally mounted on a scraper bridge and fed with wash water from the grit chamber
- The organic content can be reduced to volatile solids <3%
- Can be extended to become a reception station for sewer grit and street sweepings
- Can be charged with up to 30 l/s
- Dry charging version as extension or retrofitting for compact installations

- Dry charging version as retrofitting for existing grit sizing machines
- 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 wash unit has proved itself in practice at home and abroad

#### The FSM grit wash unit has been developed with three aims in mind:

- 1. To achieve a very high separation performance of finest grit particles
- 2. To achieve the limit value called for in the document TA Siedlungsabfall (residential waste) for depositing on a Class 1 dumping site with upstream coarse screen.
- Applications in municipal and industrial clarification plant
- waste water pre-treatment / grit treatment
- 3. Grit wash unit in dry and wet charged versions.

The FSM grit wash unit consists of two basic items – grit wash tank and discharge screw. Depending upon the effectiveness of the inlet screening unit, the screening drum can be dispensed with. During development, special emphasis was placed on low water consumption at low admission pressure in the service water. The grit wash unit provides high performance coupled with low operating costs.



reception station • compact installations

## **Headquarter:**

FSM Frankenberger GmbH Friedrichtstr. 95 10117 Berlin

FSM Grit wash unit

**Operating facility:** FSM Frankenberger GmbH Vor dem Hohen Stein 1 35415 Pohlheim



#### **Dimensions:**

Length/width/height	5.200 / 2.200 / 3.12
Installation size	SWA 10 / SWA 18 / S
Organic content of grit	< 3 % volatile solids
Separating capacity	> 95% of particle size

#### Material/make:

stainless steel SS304 or
stainless steel SS304 or
special steel or stainless
geared motors, make SE

#### FSM Frankenberger GmbH Schloßstr. 7

Operating facility:

17209 Walow

#### Industrial applications

- meat, fish and shellfish processing/ slaughterhouses – 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
- composting 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

mm, other dimensions on request SWA 30 / SWA 40 / TB-SWA

0.2 mm

SS316, other materials on request SS316, other materials on request steel SS304 or SS316, other materials on request

#### WWW.FSM-UMWELT.DE



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#### Machines for water and waste water treatment

Excellent innovative capacity combined with many years of experience and a highly motivated team providing advice, assembly and service are your guarantee of outstanding products "Made in Germany", expert contract management through to commissioning and, of course, thereafter.

Get to know us, perhaps in the near future at a Trade Fair in your locality.



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