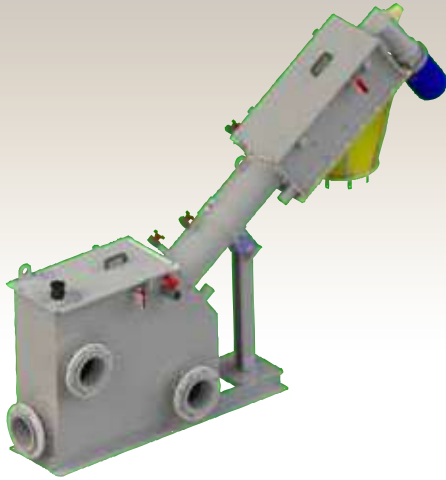


Waste Water Treatment

Compact Plants for Mechanical Effluent Pre-Treatment WASTEMASTER TSF-1

8



Description ▼

WASTEMASTER TSF-1 is a Screw Screen for pumped waste water that consists of a screen basket, a conveyor screw, and a compaction section. The machine is installed in a self-supporting SS container.

Function ▼

The process starts inside the screen which holds back solids only. The internal part of the screen is continuously cleaned by brushes fixed on the outside diameter of the flight. As the water runs through the screen the shaftless spiral conveys the solids up towards the compaction module where the material is further de-watered. Depending on the material properties, screenings can be reduced by more than 40% of their original volume.



Application ▼

The most peculiar application for WASTEMASTER TSF1 is as a complete mechanical waste water pre-treatment system for small municipal plants and for low flow rates (from 5 up to maximum 10 l/s; we strongly recommend 1 mm wedge wire as screen mesh).

The working principle based on such very low flow rates enables progressive fouling of the screen through suspended solids. During this process the film of material with particle size larger than 1 mm will stick on the screen and act as a fine mesh for the smaller solid particles, as well as sand and fat that come with the waste water flow.

Benefits ▼

- ✓ **Compact design;**
- ✓ **Screening, conveying and compacting in a single unit using one drive only;**
- ✓ **Easy installation, low maintenance and low operating costs;**
- ✓ **No clogging even with fibres thanks to shaftless screw design.**

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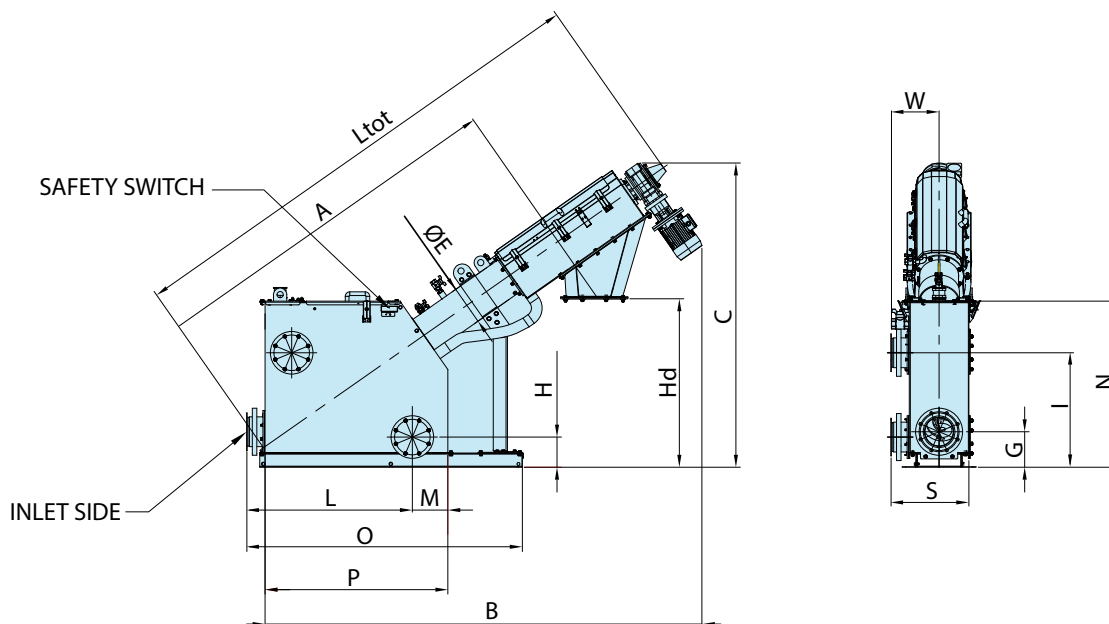
Technical Features / Performance ▼

- ▶ Sturdy, completely enclosed structure (in SS) complying with safety regulations preventing bad odours
- ▶ Conveyor screw manufactured from special highly resistant steel with increased surface hardness (SS as option)
- ▶ Screens have a special mesh suitable for particular characteristics of waste water and solids
- ▶ Solids extraction up to 0.18 dm³/s (0.650 m³/h)

Model	Flow Rate l/sec *							
	Wedge Wire Screens (mm)			Round Holes Screens (mm)				
	0,5	1	2	2	3	5	6	10
TSF1 300	28	37	48	22	40	50	45	60
TSF1 400	53	69	91	45	75	85	80	95
TSF1 500	93	120	156	80	130	145	137	155

* The values refer to technical water.

Overall Dimensions ▼



MODEL	A	B	C	ØE	G	H	Hd	I	L	M	N	O	P	S	W	L Total
TSF1 300	2,141	2,595	1,795	219	200	200	1,015	560	934	200	936	1,560	1,030	480	236	2,896
TSF1 400	2,647	3,031	2,097	219	200	230	1,317	650	1,204	200	1,180	1,810	1,300	580	236	3,402
TSF1 500	2,505	2,978	2,021	219	230	250	1,240	750	1,254	250	1,230	2,030	1,400	680	236	3,201

Dimensions in mm

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