WASTE WATER & SLUDGE TREATMENT

Compact Plants for Mechanical Effluent Pre-Treatment

WASTEMASTER TSF-1









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

SCREW SCREEN IN SELF-SUPPORTING TANK

WASTEMASTER TSF-1 is a combined machine for the separation of solids present in effluents and the compaction and de-watering of the extracted solids. It is designed to be fed by a pump or by gravity.

The suspended solids are retained by the screen, increasing the liquid level in the front part of the screen. At this point the screw starts operating, cleaning the screen by means of brushes fixed on the outer part of the screw flighting, removing the material, and then de-watering and compacting it.

The machine consists of the following parts:
- Screen;
- Conveyor screw;
- Compactor.

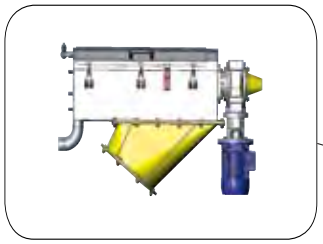
The conveyor screw consists of a shaftless spiral which collects the solids from the bottom of the screen conveying them without risk of clogging.

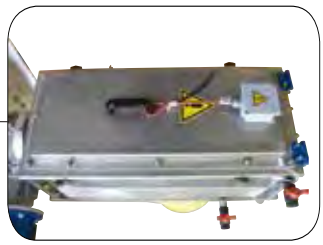
The compactor in the upper part, equipped with washing section for lowering organic fractions, uses the conveyor screw for compaction and de-watering of the screenings.

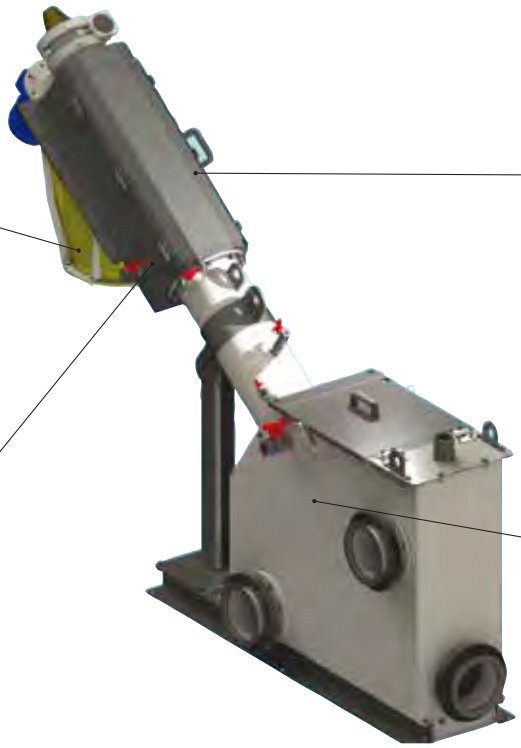
Technical features

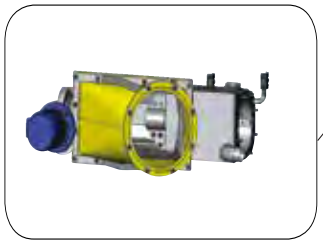
- TSF-1 has a sturdy metal framework, (completely enclosed structure complying with safety regulations and preventing odours) manufactured entirely from 304 L / 316 L stainless steel
- Shaftless conveyor screw manufactured from 304 L / 316 L stainless steel or special high-resistance steel
- Flow rates up to 500 m^3/h (300 c.f.m.)
- Solids extraction up to 0.18 dm^3/s
- Screens have a special mesh suitable for particular characteristics of waste water and solids
- ATEX GAS II Motors Available




Polymer Outlet with Compacting Washing System


Insulated Discharge Module



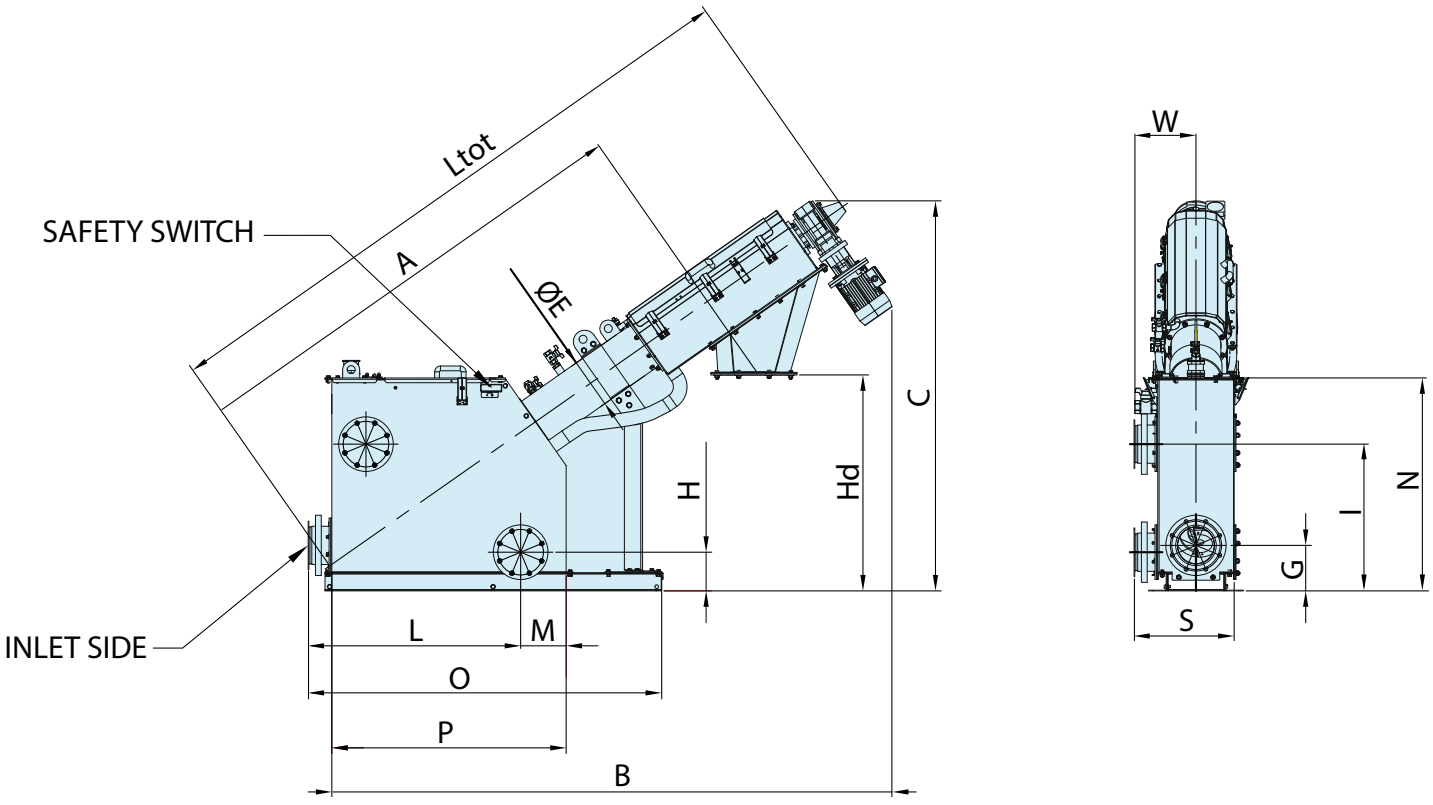

TSF-1 Outlet Top View


Inlet Screen Basket

Benefits

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

Overall Dimensions



MODEL	A	B	C	ØE	G	Hd	I	L	M	N	O	P	S	W	L Total
TSF1 300	2,141	2,595	2,030	219	170	933	645	934	200	936	1,56	1,03	480	236	2,755
TSF1 400	2,647	3,031	2,370	219	230	1,229	765	1,204	200	1,180	1,81	1,3	580	236	3,245
TSF1 500	2,505	2,978	2,342	219	250	1,240	850	1,254	250	1,230	2,03	1,4	680	236	3,201

Dimensions in mm

Accessories

- Bag clamping system
- Endless tube
- Level Sensor
- Solenoid Valve

Application









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