WASTE WATER & SLUDGE TREATMENT

# Mechanical Effluent Pre-treatment Plant

## WASTEMASTER TSB-1










SAVECO™
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Mechanical Effluent Pre-treatment Plant
WASTEMASTER TSB-1

# COMPACT PLANT FOR EFFLUENTS FROM SEPTIC TANK

WASTEMASTER TSB1 carries out up two different processes: separation of solids present in effluents and the compaction and de-watering of the extracted solids.

The sewage from cesspool tanks / interceptors or industrial plants collected by special tankers, has to be pre-treated before it can be introduced into any kind of purification system. The suspended solids are retained by the screen increasing the 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 flight, 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 diminishing organic fractions, uses the conveyor screw for compaction and de-watering of the screenings.

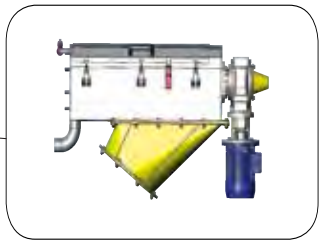
## Technical features

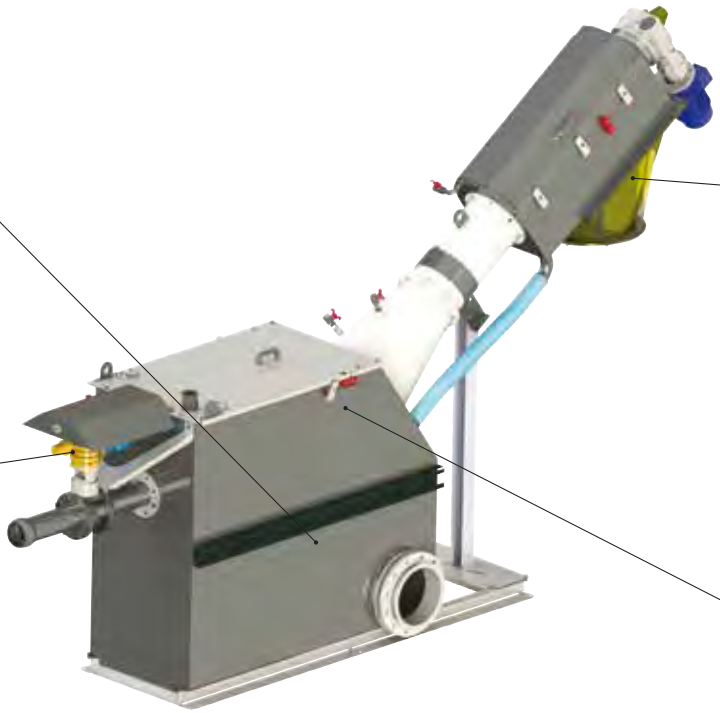
- TSB-1 has a sturdy metal framework, (completely enclosed structure complying with safety regulations and preventing odours) manufactured entirely from 304 L / 316 L stainless steel
- Shaftless conveyor screw manufactured from 304 L / 316 L stainless steel or special high-resistance steel
- Flow rates up to 30 litres per second (64 c.f.m.) with solids extraction up to 0.35 $dm^3/s$
- Screens have a special mesh suitable for particular characteristics of waste water and solids up to 10 mm
- Machines equipped with quick coupling and Perrot Valve





Inlet Screen Basket


Polymer Outlet with Compacting Washing System



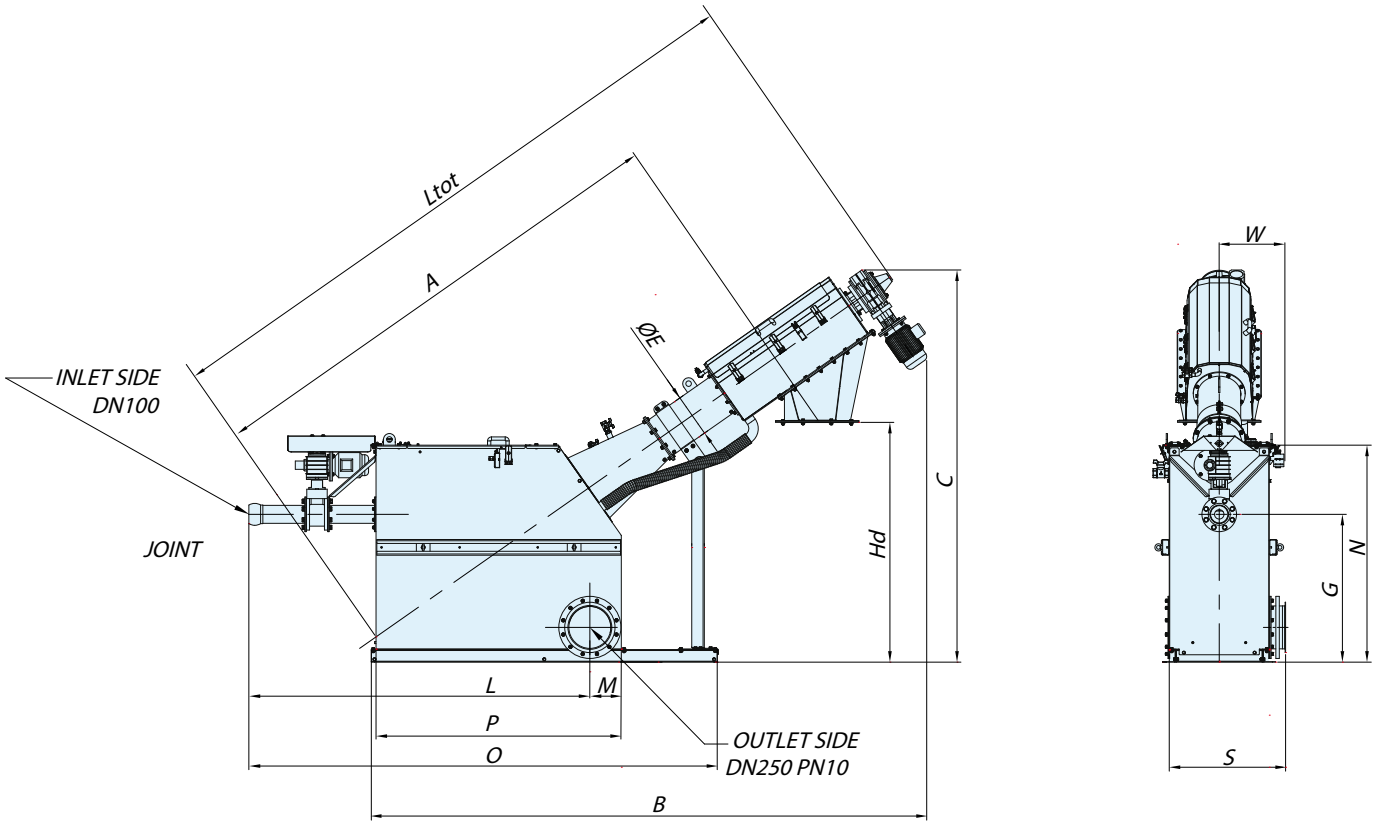

Quick Coupling + Perrot Valve


Tank Washing System

## Benefits

- ✓ **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.**
- ✓ **Odour free**
- ✓ **No civil works required**

## Overall Dimensions




| MODEL | A | B | C | ØE | G | H | Hd | L | M | N | O | P | S | W | Ltot |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TSB1/15** | 3,110 | 3,504 | 2,440 | 273 | 940 | 300 | 1,535 | 2,064 | 300 | 1,380 | 2,982 | 1,560 | 780 | 411 | 3,972 |
| **TSB1/30** | 3,370 | 3,703 | 2,596 | 324 | 1,140 | 350 | 1,691 | 2,204 | 350 | 1,580 | 3,382 | 1,750 | 880 | 309 | 4,218 |

*Dimensions in mm*

## Accessories

- Bag clamping system
- Endless tube

# Application









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