



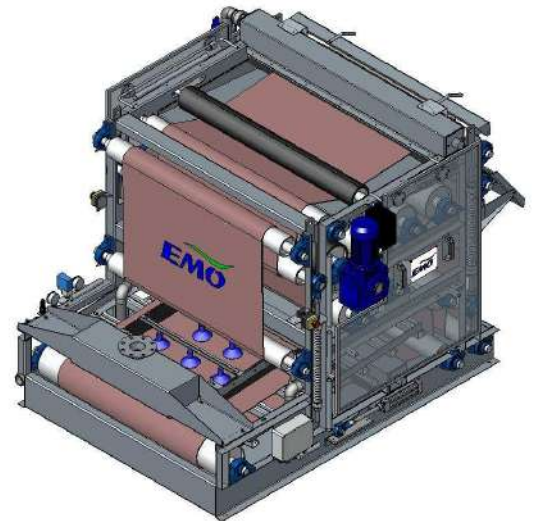
BELT FILTER PRESS OMEGA 100000

With 20 years experience and more than 2500 references installed in 65 countries worldwide, EMO is a leading designer and manufacturer of sludge treatment process equipment for thickening, dewatering and drying.

The OMEGA Belt Filter Press is designed for the continuous mechanical dewatering of municipal and industrial sludge.

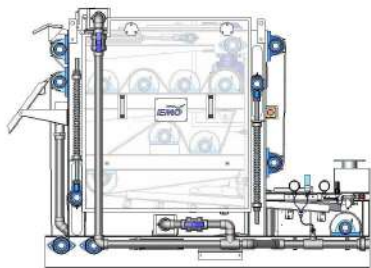
With its in-house, well equipped laboratory, EMO has been able to characterize many kinds of sludges and deliver tailor-made solutions for the benefit of the end-user.

EMO does not only provide electromechanical equipment but engineering and process solution thanks to the expertise of its Chemical & Process Engineers.



Technical data

Among the Belt Filter Press and Gravity Belt Thickener manufacturers, EMO has always been a market leader for smart designing, user-friendly and optimum space requirement /efficiency ratio equipment.



EMO offers a wide range of Belt Filter Presses to match any plant size, keeping in mind the following key features :

- ✓ high quality components (only stainless steel construction),
- ✓ low energy consumption and operating cost,
- ✓ clean operation,
- ✓ operators safety devices,
- ✓ easy access for supervision and maintenance,
- ✓ visual control of the sludge during dewatering.

Installations

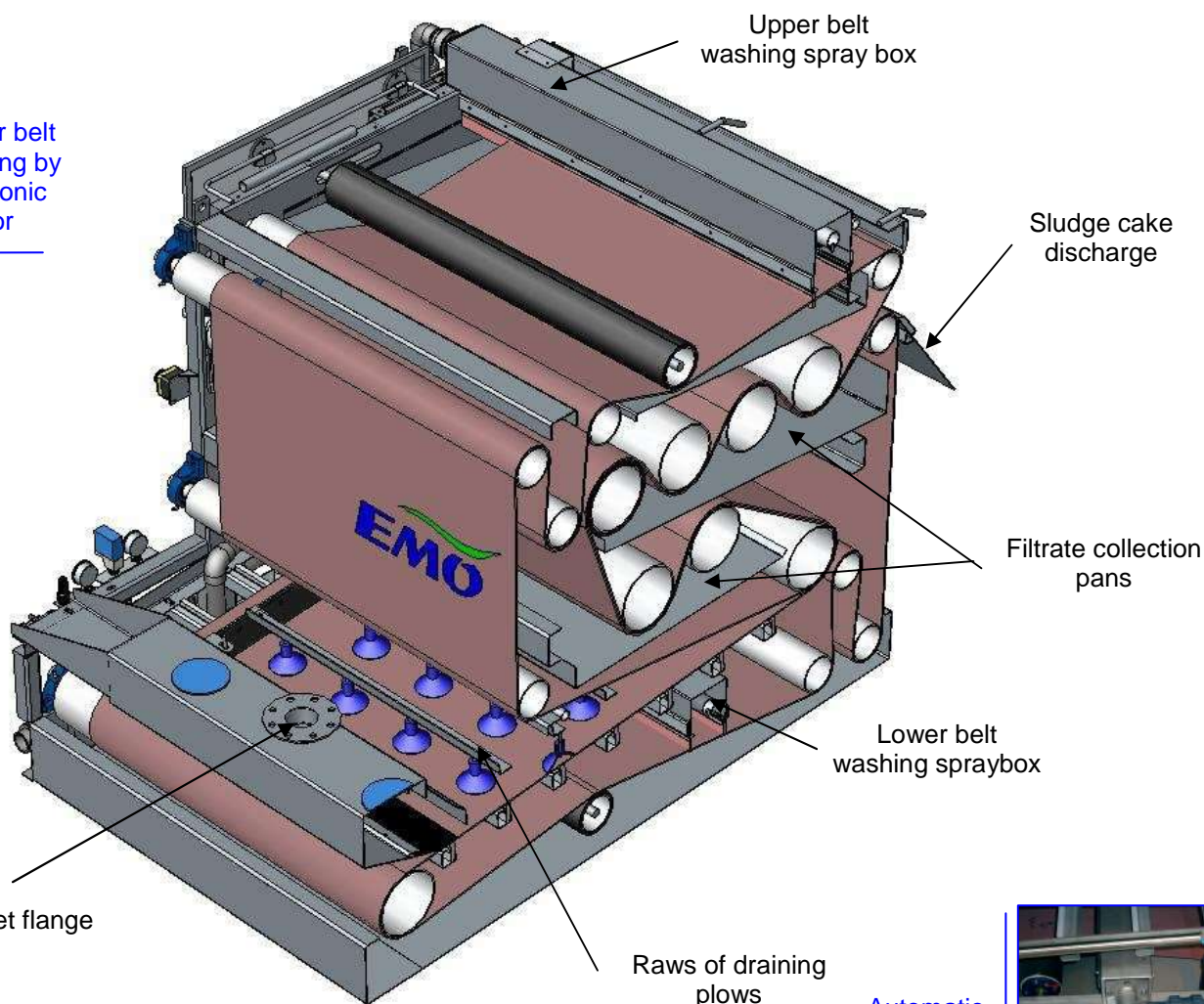


Operating principle

The OMEGA press consists of a stainless steel frame, one sludge distribution tank, one gravity draining section one assembly of staggered ploughs to ease draining, filtering belts, compression and alternate shearing sections, one automatic belt tensioning system by mechanical jack and threaded rod, one automatic belt tracking system by pneumatic jack, one belt washing system, one variable speed drive motor, one electrical control panel (optional) and internal pipe-work and wiring.



Upper belt tracking by ultrasonic sensor



Automatic washing spraybar

Selection tables

Model	Belt width	Dimensions (l x w x h)	Hydraulic flow (for information)
OMEGA 100100	1,00 m	2,78 x 1,87 x 1,92 m	2 to 6 m ³ /h
OMEGA 100150	1,50 m	2,78 x 2,37 x 1,92 m	4 to 8 m ³ /h
OMEGA 100200	2,00 m	2,78 x 2,87 x 1,92 m	6 to 12 m ³ /h

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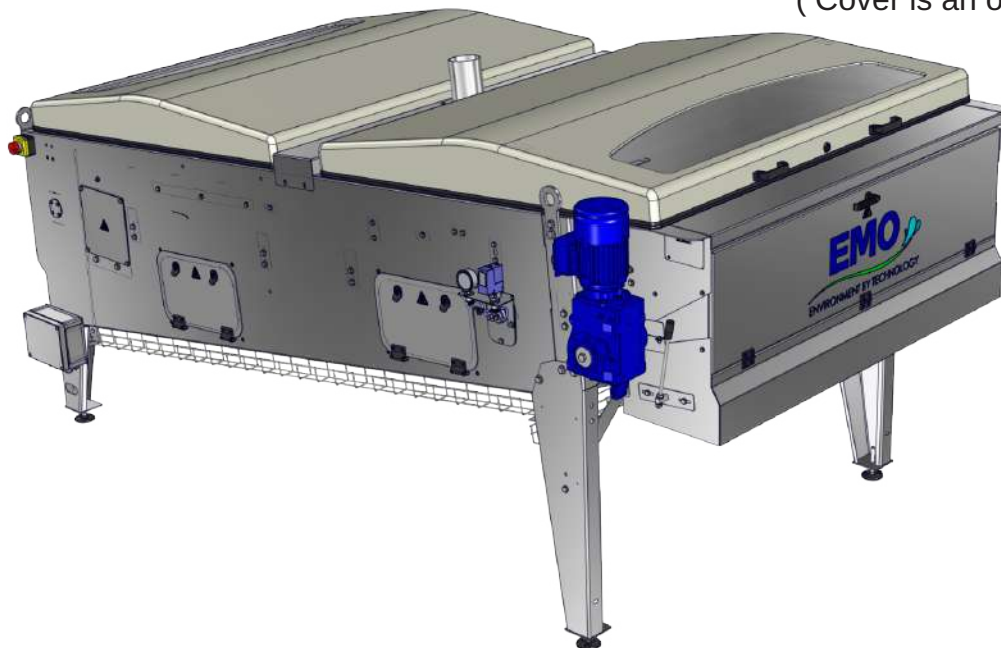
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S.A.S. au capital de 480 000 Euros - RCS Rennes B391 805 652 - Siret 391 805 652 00024 - APE 2829 B



The Gravity Belt Thickener OMEGA MDV2 is designed for the continuous mechanical thickening of municipal or industrial sludge. This simple and efficient technology aims at reducing the sludge volume at least 4 times!

(Cover is an option)



ADVANTAGES

- A new design for an optimal sludge treatment
- Easy and low maintenance
- Permanent visual control of the process through lateral inspection hatches
- Safe and ergonomical machine
- Fully covered equipment to allow odourless operation





OPERATING PRINCIPLE

The operation of the Gravity Belt Thickener OMEGA, developed by EMO, relies on three essential steps: **flocculation**, **filtration** and **pressing**.

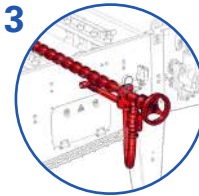
The thickening process starts with flocculation: a first liquid/solid separation which aims to give structure to the sludge. The flocculated sludge is then poured onto the filtering belt: the water flows freely through the filtering belt while the sludge is led to a final pressing stage. The thickened sludge is then scraped off and discharged.



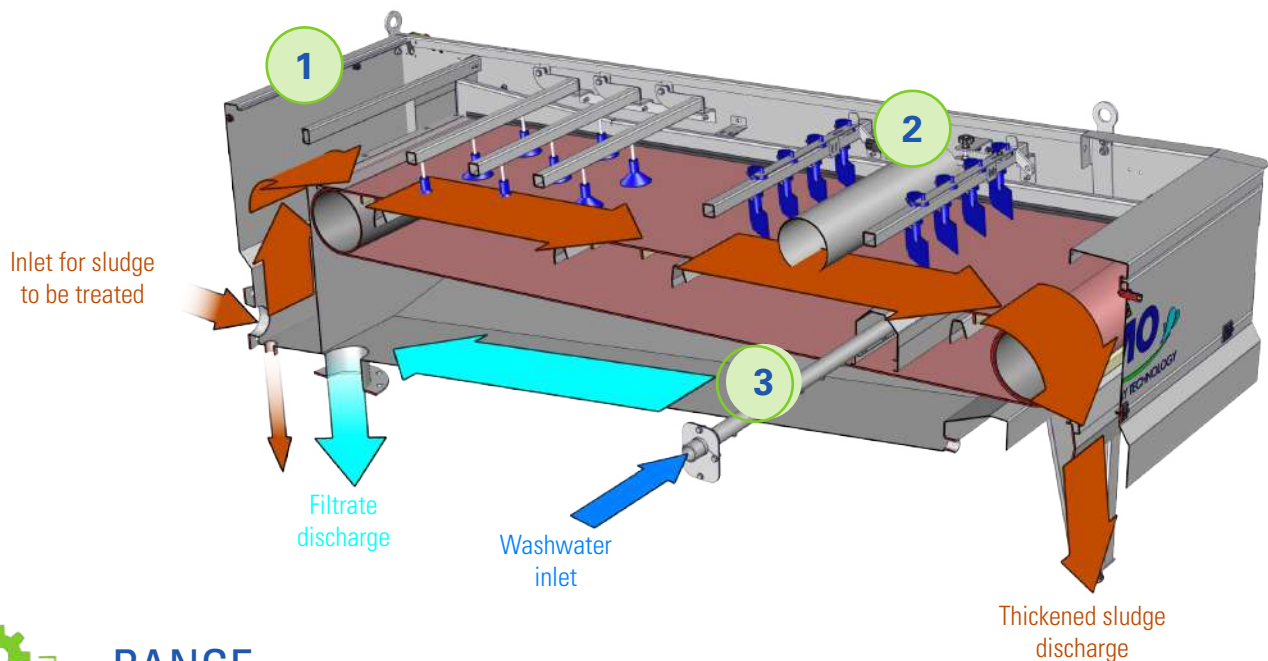
Option: integrated agitator
Progressive flocculation time and homogeneous sludge distribution on the filtering belt.



Levelling roller(s)
Space available to add one second levelling roller for even better dryness.



Belt washing spraybar with internal brushes
Efficient and continuous belt cleaning (manual handwheel or automatic motorised spraybar).



RANGE & SELECTION TABLE

The capacity of the Gravity Belt Thickener is determined by the inlet DS concentration and hydraulic flow rate parameters, together with the output DS concentration required. The figures shown below are values for inlet DS % 5 to 10 g/l and an expected output of DS % of 70 g/l. These values can be revised for other parameters – for example – if the inlet DS % is greater than 10 g/l or if the expected output DS % is less than 50 g/l or use as combined unit.

Model	Belt width (mm)	Active drainage surface (m ²)
10 MD V2	1000	2,45
15 MD V2	1500	3,75
20 MD V2	2000	5,00
25 MD V2	2500	6,30
30 MD V2	3000	7,60

EMO sas

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