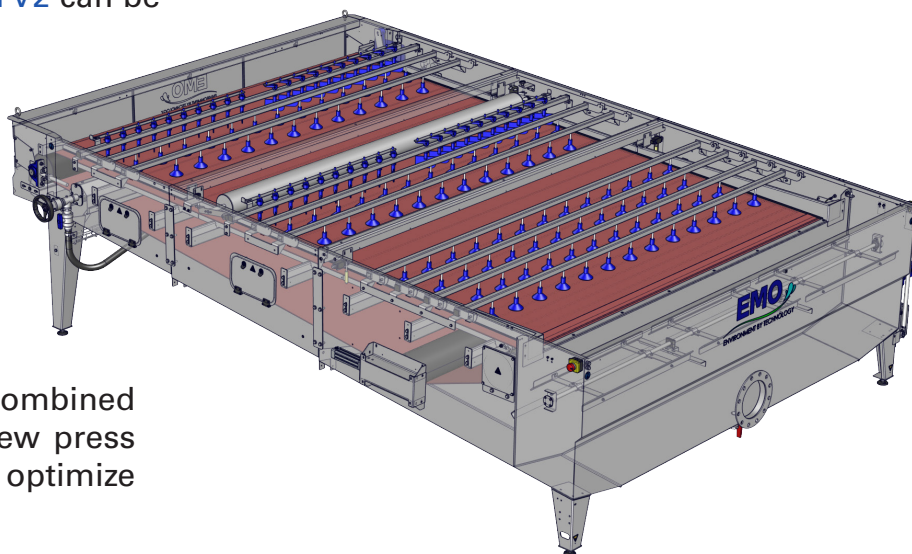




The OMEGA Gravity Belt Thickener is designed for the **continuous mechanical thickening** of municipal or industrial sludge.

The Gravity Belt Thickener OMEGA TH V2 can be used as a:

- step to increase the sludge DS concentration to 6–8%. Therefore, extracting sludge from bio reactor, replacing conventional gravity static thickener, flotation system, ...
- pre-dewatering stage when combined in-line with a Belt Filter Press or screw press in pulp and paper application to optimize dewatering equipment performances,
- pre-dewatering stage before a Plate Filter Press or centrifuge to downsize the dewatering equipment,
- sludge volume reduction in case of storage before land spread, or anaerobic digestion feed.



ADVANTAGES

- Low energy consumption
- Low foot print
- Continuous process
- Friendly maintenance and supervision
- Completely covered for odor control
- Specially designed for very high capacity installation: up to 200 m³/h of sludge!



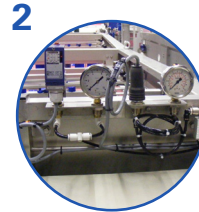


OPERATING PRINCIPLE

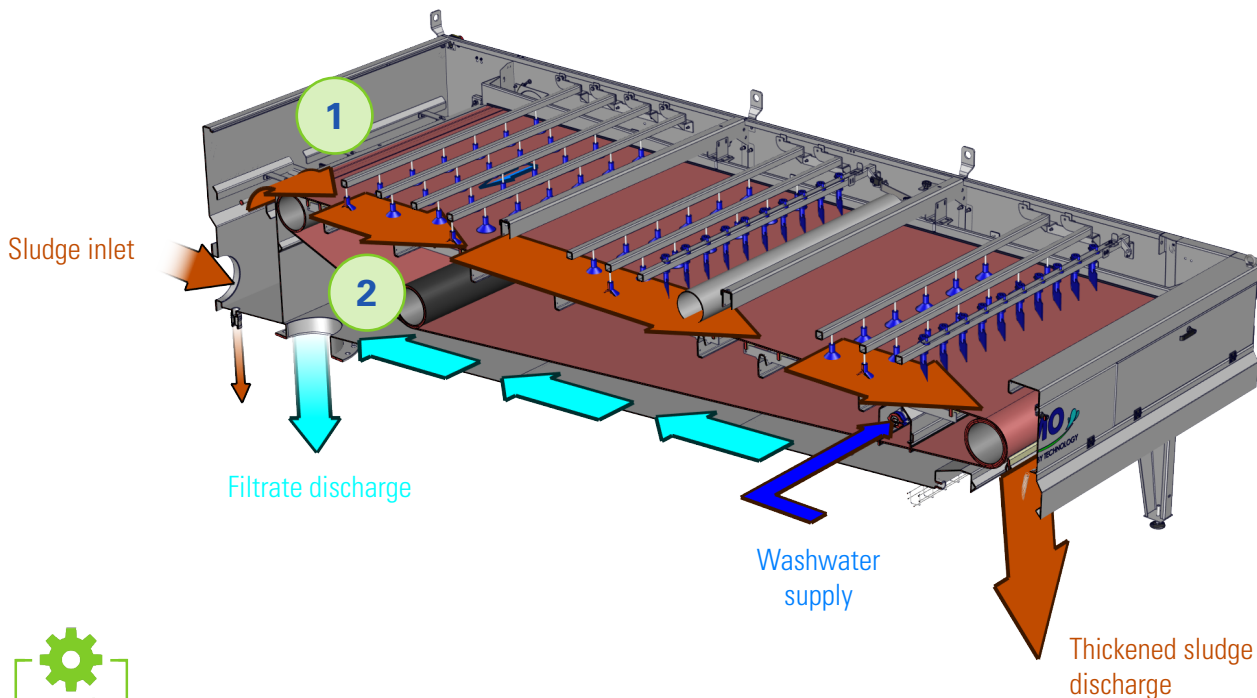
The OMEGA belt thickener OMEGA TH V2 consists of a stainless steel frame, sludge distribution tank (distribution tank is designed to optimize flocculation and can be fitted with horizontal agitator for most advanced flocculation, option F), gravity drainage zone, variable speed drive, continuous belt washing system, compression zone, mechanical belt tracking (pneumatic as an option for friendly maintenance, option C) and tensioning systems, filtrate collection pans, sludge discharge scraper blade, discharge hopper, internal wiring, electric control panel (optional), safety operation devices.



Option F
Integrated horizontal flocculator



Option C
Pneumatic belt tracking



SELECTION TABLE

The OMEGA gravity belt thickener designed by EMO is used for the continuous thickening of any type of sludge to obtain a Dry Solids concentration of cake from 6% to 10% (with a solids matters capture rate up to 98% and a low polymer consumption).

These values can be revised for others parameters: for example, if the inlet is greater than 10 g/l or if the expected output DS % is less than 50 g/l.

Model	Filtration length (m)	Belt width (m)	Dimensions LxWxH (m)	Hydraulic flow for information (m ³ /h)
OMEGA 10TH V2	5	1,00	5,62 x 1,45 x 1,55	15 to 40
OMEGA 15TH V2 C	5	1,30	5,62 x 1,95 x 1,55	25 to 45
OMEGA 20TH V2 C	5	1,80	5,62 x 2,45 x 1,55	30 to 70
OMEGA 25TH V2 C	5	2,30	5,62 x 2,95 x 1,55	40 to 90
OMEGA 30TH V2 C	5	2,80	5,62 x 3,45 x 1,55	50 to 110
OMEGA 35TH V2 C	5	3,30	5,62 x 3,95 x 1,55	50 to 130
OMEGA 40TH V2 C	5	3,80	5,62 x 4,45 x 1,55	50 to 150

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