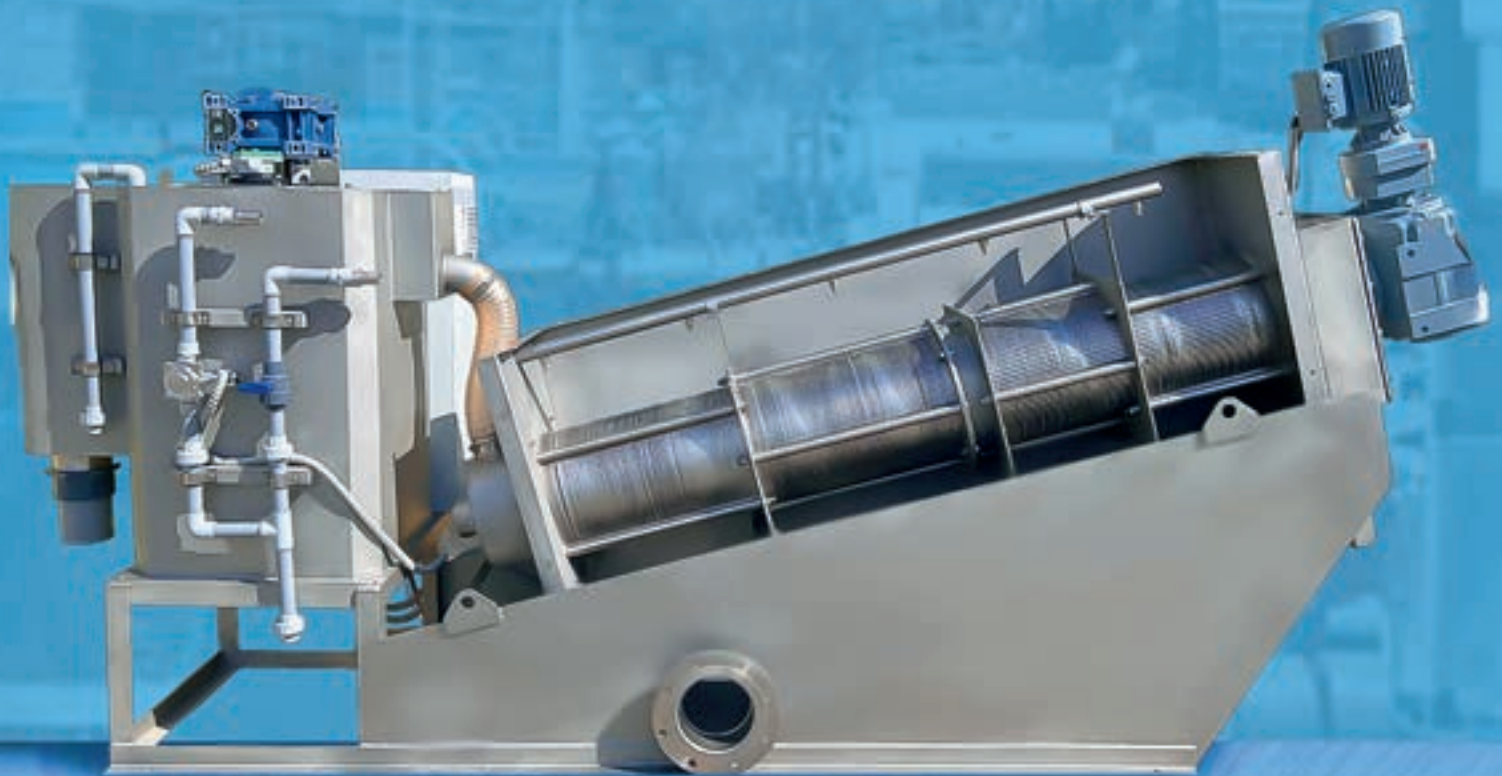




EUROTECK
ENVIRONMENTAL (P) LTD

LET'S RECYCLE

SLUDGE DE-WATERING MACHINE - MULTI DISK SCREW PRESS



WHAT IS SLUDGE DE - WATERING?

Sludge dewatering is the process of separation of components of solid and liquid sludge to minimize the sludge disposal. The main purpose of the Sludge dewatering machine is to minimize handling and disposal.

HOW IT WORKS

Sludge Dewatering Screw Press is designed to apply three functions into one unit, in which the three zones are conditioning one, thickening zone and dewatering zone. It is able to run continuous and automatic to dewater sludge up to 22% to 25% of Outlet Consistency. With this equipment, you can remove Sludge Thickening Tank and Filter Press. Hence, reduce footprint and less manpower needed for cleaning dewatering equipment and discharge of sludge.

SALIENT FEATURES

- Extremely low energy consumption
- No requirement of thickener or drying beds
- Clog-free & small foot print
- Fully automatic control
- High resistance to oily sludge
- Lesser manpower requirement
- Very low water requirement for washing (Pressure of 0.2 bar)
- Less noise, less odour

CUSTOMIZED SCREW PRESS WITH REQUIRED CAPACITIES ALSO MANUFACTURED AT EUROTECK

Model	Inletflow @ 1% Conc. m3/hr	DrySludge(Kg/hr)	Electrical Load KW	Overall size (LxWxH) mm	Rinsing Water 9l/hr)
		KgDS/hr			
ESD 1.2	1.2	06-12	0.37	1860 x 750 x 1080	24
ESD 2.5	2.5	12-25	0.55	2500 x 860 x 1400	32
ESD 5	5	25-50	1	2580 x 977 x 1400	64
ESD 8	8	40-80	1.3	3200 x 1000 x 1500	40
ESD 16	16	80-160	2.05	3570 x 1260 x 1500	80
ESD 17	17	85-170	2.05	3900 x 1160 x 2050	72
ESD 34	34	170-340	3.75	4240 x 1550 x 2050	144
ESD 25	25	125-250	2.25	4300 x 1300 x 2100	72
ESD 50	50	180-500	4.1	4900 x 1700 x 2100	144

Due to continuous development specifications change without notice.
Above data is indicative and may change as per site condition.



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1. FLOW CONTROL TANK

Feeds a fixed amount of sludge to the flocculation tank whilst the excess sludge returns to the storage tank.

2. FLOCCULATION TANK

A Polymer is mixed with the sludge to form flocks suitable for the Volute.

3. THICKENING ZONE IN CYLINDER UNIT

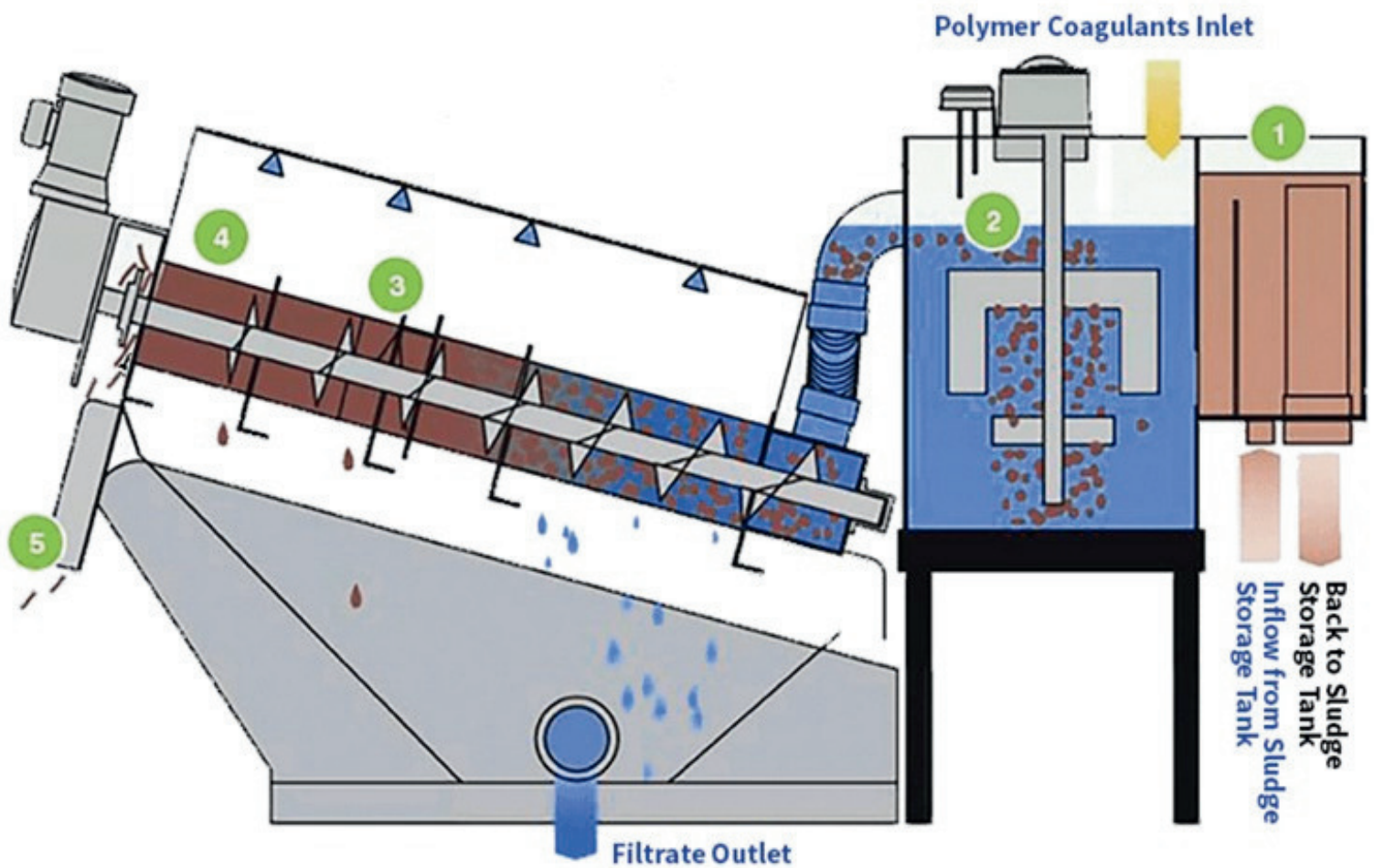
The sludge enters the thickening zone, and the initial filtrate is discharged whilst the thickened sludge is pushed towards the dewatering zone by the screw.

4. DEWATERING ZONE

In this section the gaps between the rings and the screw pitch decrease gradually in the direction of the end plate, whilst the pressure of the filter element increases due to the volume compression effect, which thickens and dewater the sludge.

5. END PLATE

The end plate creates further pressure from the outlet side so that the sludge becomes drier, resulting in an up to 25% solid sludge cake which is released from the sludge cake outlet.





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