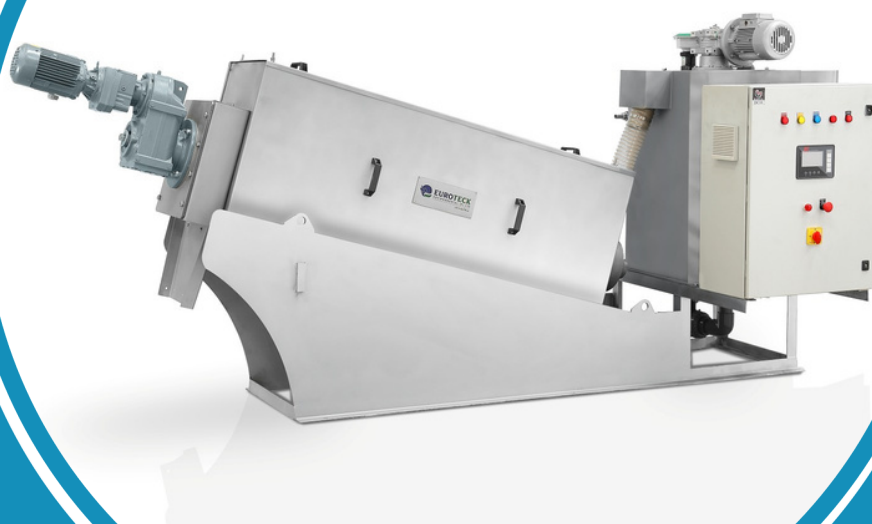




MULTI DISK SCREW PRESS

SLUDGE DE-WATERING MACHINE

WHAT IS SLUDGE DE-WATERING?

Sludge dewatering is the process of reduction of sludge volume by removing water. The goal is to reduce the sludge volume, making it easier and more economical to handle, transport, and dispose off.

HOW IT WORKS

A dewatering screw press is a mechanical device used to separate solids from liquids. It is designed to combine three functions within a single unit: a thickening zone, a dewatering zone, and a compression zone. The system operates continuously and automatically, producing sludge with an outlet consistency of about 20% to 25%.

SALIENT FEATURES

- Extremely low energy consumption
- Low operating and maintenance costs
- Can handle high solid concentrations and gives consistent output
- Minimal noise and environmental impact
- No clogging issue
- Fully Automated / Manual operation
- Less manpower requirement

POSSIBILITY TO CUSTOMIZE SCREW PRESS TO MEET SPECIFIC REQUIREMENTS

Models	Solid Handling Capacity	Sludge Feed Capacity (m ³ /hr)	Total Connected Load kW
	Kg (DS) / hr	Sludge Consistency 1%	
ESD-0.5	5	0.5	0.36
ESD-1-ECO	10	1	0.43
ESD-1	10	1	0.3
ESD-2	20	2	0.36
ESD-3	30	3	0.5
ESD-4	40	4	0.62
ESD-5	50	5	0.87
ESD-7	70	7	0.74
ESD-14	140	14	1.29
ESD-10	100	10	0.92
ESD-20	200	20	1.65
ESD-18	180	18	1.3
ESD-36	360	36	2.25
ESD-54	540	54	3
ESD-25	250	25	1.65
ESD-50	500	50	2.95
ESD-75	750	75	4.05
ESD-100	1000	100	5.5

Due to continuous development, specifications might change without notice.

Above data is indicative and may change as per the site conditions

Screw press can be provided in SS304, SS316 & SS316L.

PROCESS

1. FLOW CONTROL TANK

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

2. FLOCCULATION TANK

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

3. THICKENING ZONE IN CYLINDER UNIT

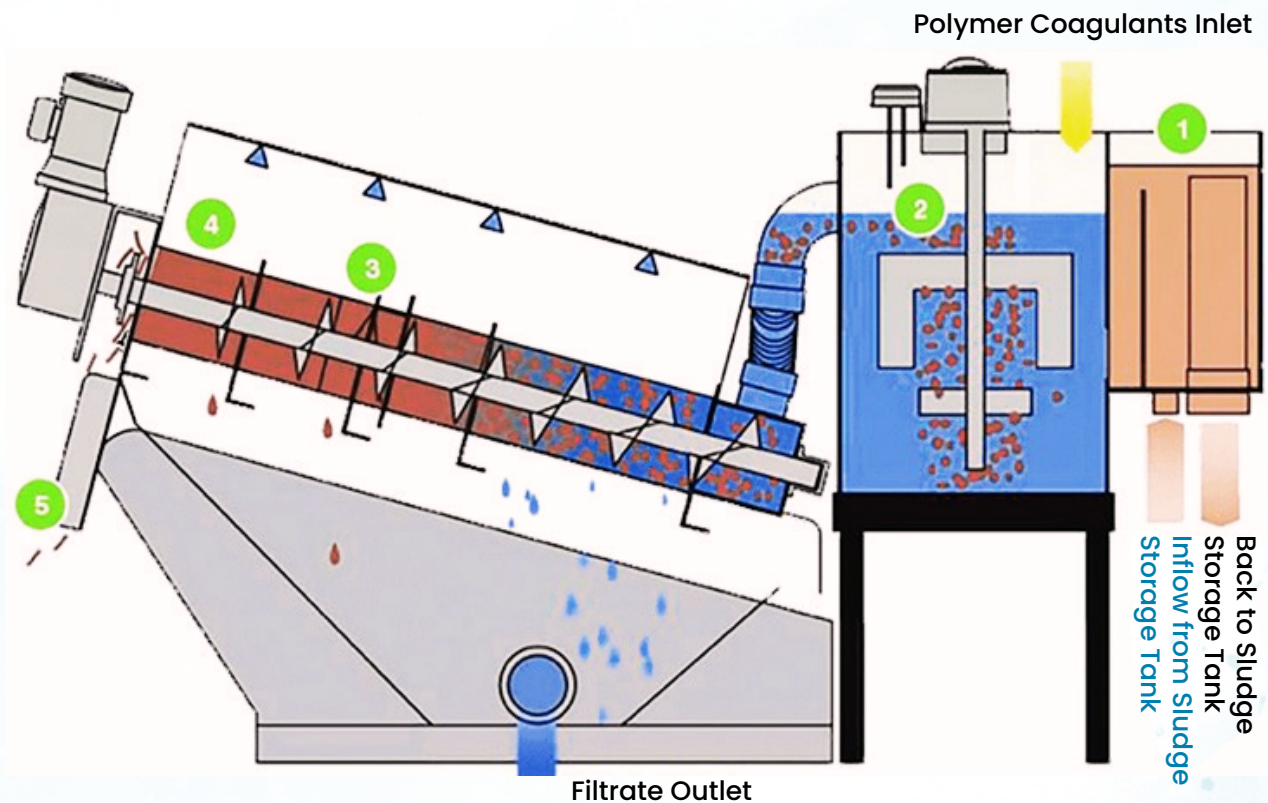
The sludge enters the thickening zone, and the filtrate is discharged whilst the thickened sludge is pushed towards the dewatering zone by the screw

4. DE-WATERING 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 dewateres the sludge further

5. END PLATE

The end plate generates pressure, enabling the sludge cake to reach an output consistency of up to 25% solids at discharge



APPLICATIONS



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