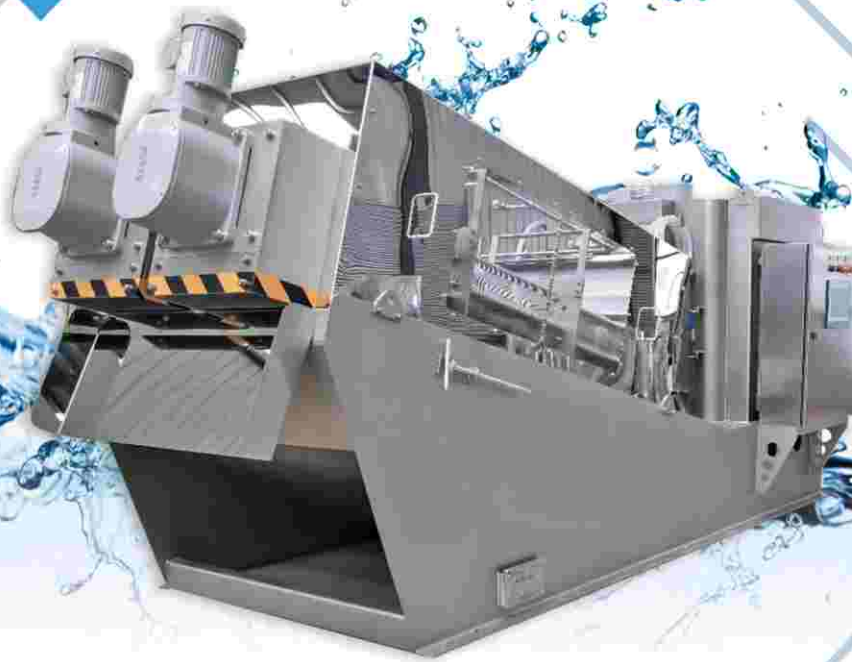




MULTI-PLATE SCREW PRESS

Solid-liquid separation equipment

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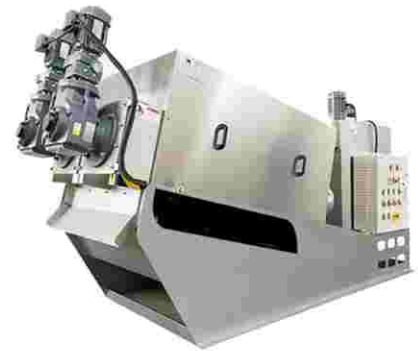


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Product description

The multi-plate screw press sludge dewatering machine is integrating with auto-control cabinet, sludge thickening&dewatering body liquid collection tank, it's clog-free and can reduce the sedimentation tank and sludge thickening tank, saving the cost of sewage plant construction. Multi-plate Screw Press using screw and the moving rings to clean itself as clog-free structure, and controlled by the PLC automatically, it's a new technology that can replace the traditional filter press like belt press and frame press, the screw speed is very low, so it cost low power and water consumption in contrast to the centrifuge, it is a cutting edge sludge dewatering machine.



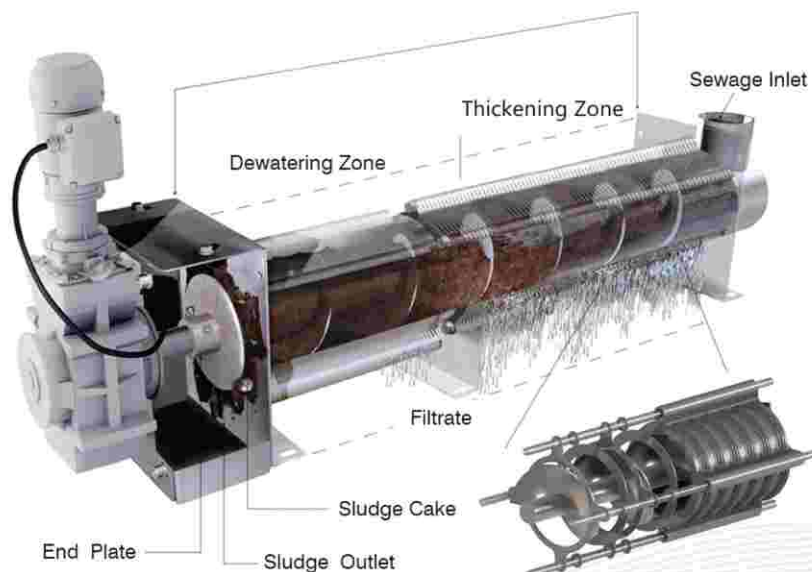
Applicable for Various Applications



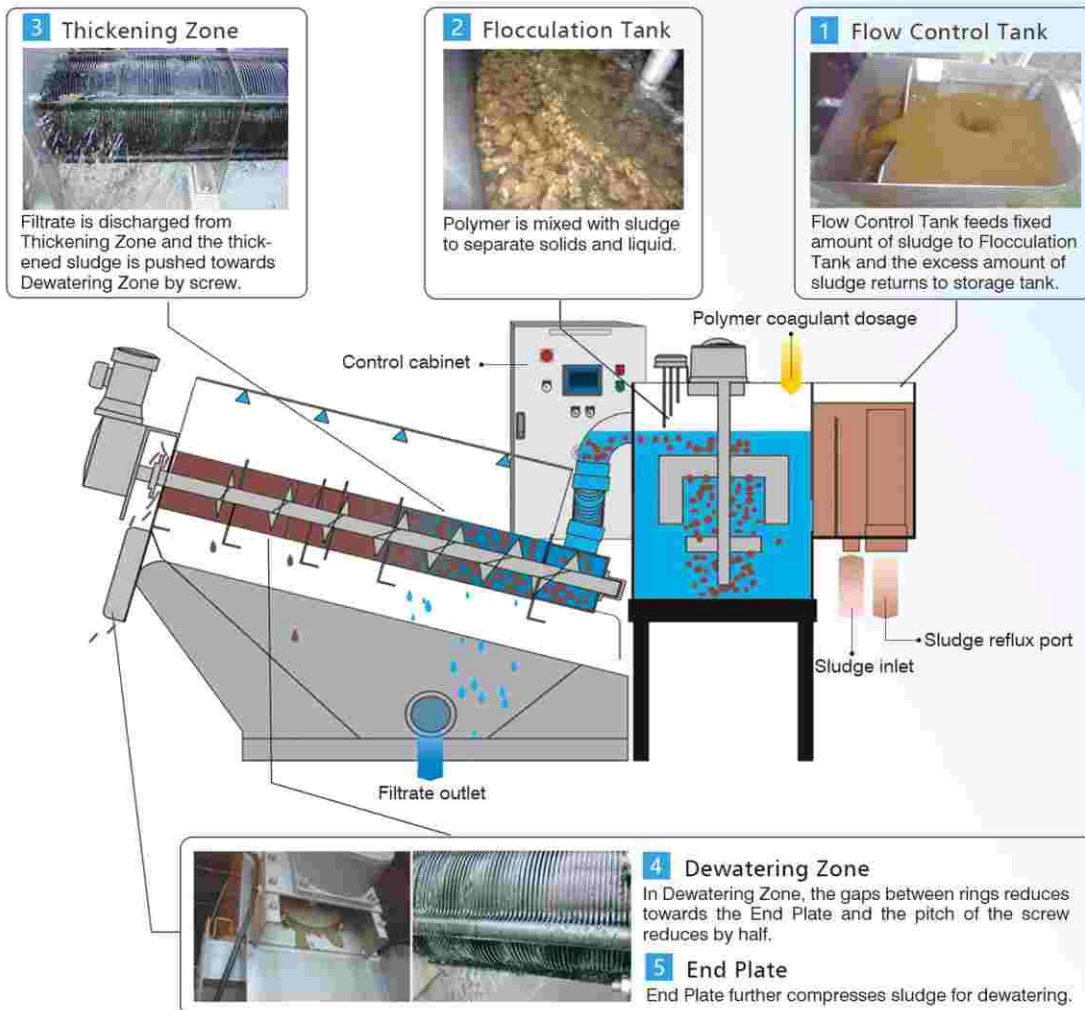
Municipal water and wastewater treatments plants, Industrial waste treatment plants, Food/beverage production plants, Dairy farming, Meat processing plants, Chemicals manufacturing plants, Machinery manufacturing plants, Metal processing plants, Laundry wastewater, etc.

Structural principle

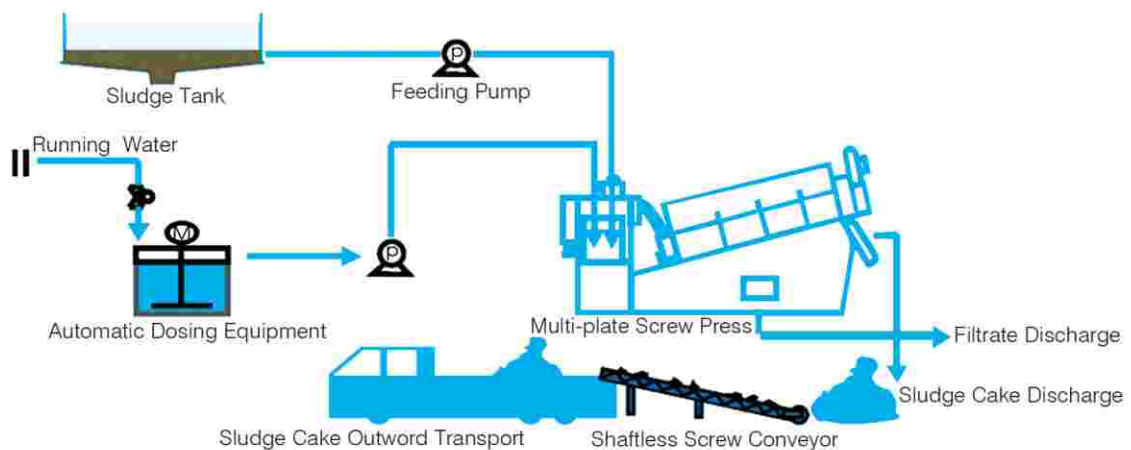
The initial section of dewatering drum is Thickening Zone where the solids-liquid separating process takes place and where the filtrate will be discharged. The pitch of the screw and the gaps between the rings decrease at the end of dewatering drum, increasing the internal pressure of the drum. At the end, End Plate further increases the pressure so as to discharge dry sludge cake.



Process Diagram



Processing Flow



Model Reference

Please advise us the sludge source, treating capacity, solid content rate, then we could choose the suitable model for you.

Model	Dry Solids Capacity (kg-DS/h)		Sludge Treatment Capacity (m ³ /h)			
	Low-High Concentration		10000mg/L	20000mg/L	30000mg/L	50000mg/L
KDDL051	1kg/h	2kg/h	0.1m ³ /h	0.1m ³ /h	0.06m ³ /h	0.04m ³ /h
KDDL101	2kg/h	7kg/h	0.3m ³ /h	0.3m ³ /h	0.2m ³ /h	0.14m ³ /h
KDDL131	5kg/h	10kg/h	0.5m ³ /h	0.5m ³ /h	0.3m ³ /h	0.2m ³ /h
KDDL132	10kg/h	20kg/h	1m ³ /h	1m ³ /h	0.6m ³ /h	0.4m ³ /h
KDDL201	10kg/h	20kg/h	1m ³ /h	1m ³ /h	0.6m ³ /h	0.4m ³ /h
KDDL202	20kg/h	40kg/h	2m ³ /h	2m ³ /h	1.2m ³ /h	0.8m ³ /h
KDDL203	30kg/h	60kg/h	3m ³ /h	3m ³ /h	1.8m ³ /h	1.2m ³ /h
KDDL251	15kg/h	30kg/h	1.5m ³ /h	1.5m ³ /h	0.9m ³ /h	0.6m ³ /h
KDDL252	30kg/h	60kg/h	3m ³ /h	3m ³ /h	1.8m ³ /h	1.2m ³ /h
KDDL253	45kg/h	90kg/h	4.5m ³ /h	4.5m ³ /h	2.7m ³ /h	1.8m ³ /h
KDDL301	30kg/h	60kg/h	3m ³ /h	3m ³ /h	1.8m ³ /h	1.2m ³ /h
KDDL302	60kg/h	120kg/h	6m ³ /h	6m ³ /h	3.6m ³ /h	2.4m ³ /h
KDDL303	90kg/h	180kg/h	9m ³ /h	9m ³ /h	5.4m ³ /h	3.6m ³ /h
KDDL304	120kg/h	240kg/h	12m ³ /h	12m ³ /h	7.2m ³ /h	4.8m ³ /h
KDDL351	60kg/h	120kg/h	6m ³ /h	6m ³ /h	3.6m ³ /h	2.4m ³ /h
KDDL352	120kg/h	240kg/h	12m ³ /h	12m ³ /h	7.2m ³ /h	4.8m ³ /h
KDDL353	180kg/h	360kg/h	18m ³ /h	18m ³ /h	10.8m ³ /h	7.2m ³ /h
KDDL354	240kg/h	480kg/h	24m ³ /h	24m ³ /h	14.4m ³ /h	9.6m ³ /h
KDDL401	80kg/h	160kg/h	8m ³ /h	8m ³ /h	4.8m ³ /h	3.2m ³ /h
KDDL402	160kg/h	320kg/h	16m ³ /h	16m ³ /h	9.6m ³ /h	6.4m ³ /h
KDDL403	240kg/h	480kg/h	24m ³ /h	24m ³ /h	14.4m ³ /h	9.6m ³ /h
KDDL404	320kg/h	640kg/h	32m ³ /h	32m ³ /h	19.2m ³ /h	12.8m ³ /h

- Sludge treatment capacity = DS standard throughput ÷ Sludge concentration

Advantage

• Direct treatment of thin sludge

Multi-Plate Screw Press is capable of dewatering low-concentrated sludge from a biological process, such as an oxidation ditch, which decreases phosphorus in return water from sludge treatment.

• Stress-free maintenance

A partial overhaul of the Dewatering Drum is a half-day work and it can be undertaken on site easily.

• Low operational cost

Energy efficient design of Multi-Plate Screw Press requires power consumption as low as 0.3kw and water consumption as low as 58g/m.

• 24-hour automated operation

Multi-Plate Screw Press with its clog-free design operates fully automatic for 24 hours and it only requires periodic inspection and chemical replenishment.

• Clog-free construction

Built-in self-cleaning system handles oily sludge without clogging and requires no rinsing water to prevent clogging.

• Wide variety of sizes

Multi-Plate Screw Press comes in a variety of sizes suitable for small septage as well as large-scale wastewater treatment plants.