









## MULTI-DISC SCREW PRESS

FOR SLUDGE DEWATERING



#### Mixing drive

Gear mixing motor with mixer for homogeneous mixing of the floculant (PAM) for effective flocuation.

#### Fixed & rotating discs

A series of stainless steel/nylon fixed and rotating discs ensure effective and clog-free filtration of liquid thatis pressed out of the sludge.

#### Spray nozzles

Spray nozzles for automatic cleaning of the discs.

#### Main drive motor

Powerful geared motor that drives the screw shaft controlled by the VFD.

#### **Electrical cabinet**

Fully automatic system with PLC. VFD is applied to control the screw speed for the varying loads of the effluent.

#### Mixing chamber

Sludge influent and floculant will be mixed homogeneoulsy by a mixer in the mixing chamber before entering the screw press.

#### Screw conveyor

Specially designed screw conveyor with reducing screw pitch for effective dewatering.

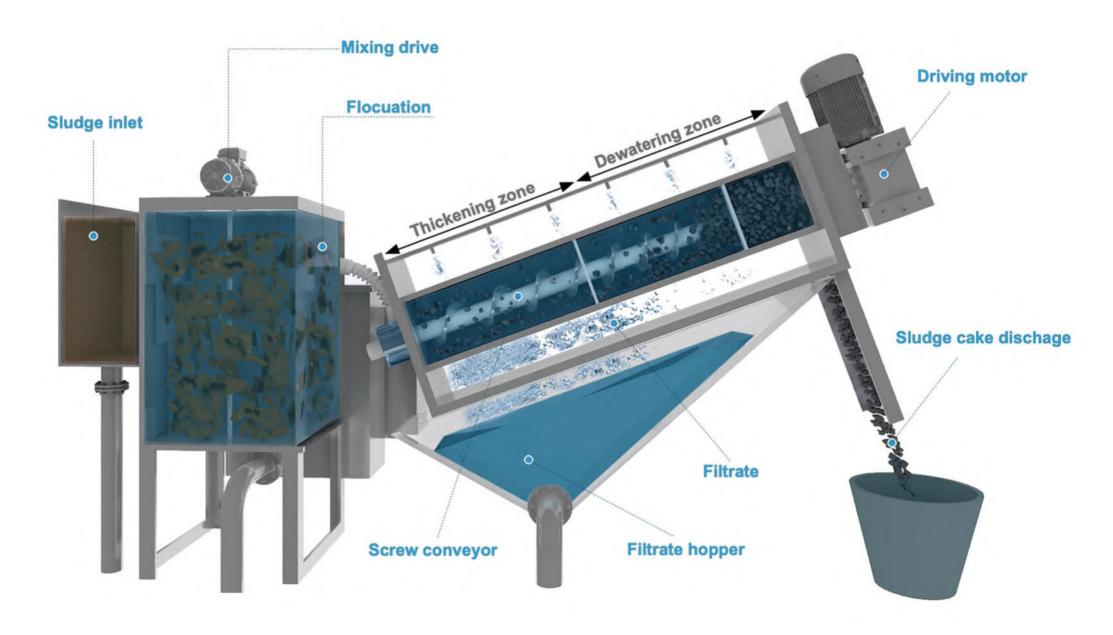
#### Adjustable backplate

Adjustable backplate is provided to adjust the sludge quality and the discharge rate

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# KEY PARTS & FEATURES ENVIRONMENTAL ENGINEERING





## **KEY PARTS & FEATURES**

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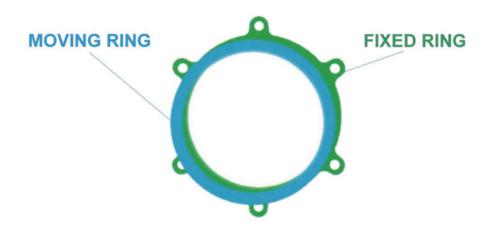


I ne Multi-Disc Screw Press is a sludge dewatering machine for wastewater treatment plant featuring the following advantages;

- ① Applicable for a wide range of sludge concentration
- ② Self-cleaning, clog-free filtration
- ③ Low rotation speed, reliable operation, low energy consumption, little noise
- 4 Fully automatic control; Easy to operate and simple to maintain
- ⑤ Small space requirements



The Multi-Disc Screw Press is widely used for sludge dewatering and a solid-liquid separation of municipal and industrial wastewater from variety of industries including petroleum, food and beverage, feeds, pharmacy, paper making and painting industry.



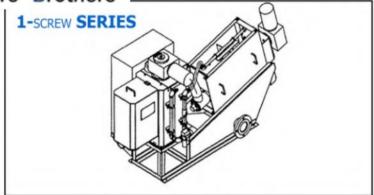
The series of finely machined fixed and moving rings placed alternately provides efficient filtration that remains clog free due to the continuous movement of the rings. This eliminates the needs for consumables like filter cloth etc.

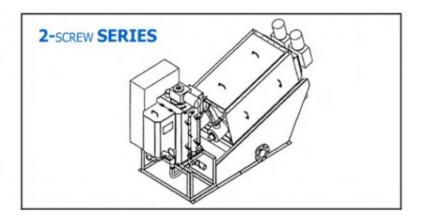
As clogging is avoided, the Multi-Disc Screw Press is able to handle oil sludge easily.

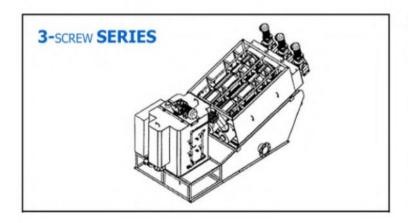
### **ADVANTAGE & APPLICATIONS**

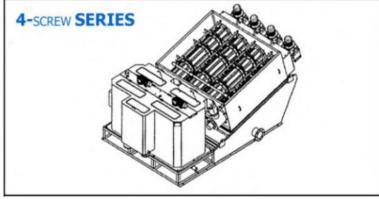
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Multi-Disc Screw Press is designed to handle handle various types of sludge in different capacities. The processing capacity is available from 1.5 m<sup>3</sup>/h to 180m<sup>3</sup>/h at 0.2% sludge concentration and 0.3m<sup>3</sup>/h to 28m<sup>3</sup>/h at 2% sludge concentration.

Due to its modular design and compact construction, the capacities can be easily scaled up by running system in parallel to meet almost any capacity as required. Single-screw, double-screw, triple-screw and quadruple-screw makes 1-screw series, 2-screw series, 3-screw series and 4-screw series separately.

Our experienced and trained team of engineers will help you with the installation, operation and maintenance training.



#### **SPECIFICATION AND MODELS OF MULTI-DISC SCREW PRESS**

Model number	Processing Capacity	Sludge processing capacity (m³/h) under different sludge concentration				
	kg/h dry sludge(DS)	2000mg/l (0.2%)	4000mg/l (0.4%)	10000mg/l (1%)	20000mg/l (2%)	25000mg/l (2.5%)
SDSP-131	6-12	3	1.5	1.2	0.6	0.48
SDSP-132	12-24	6	3	2.4	1.26	0.96
SDSP-201	12-20	6	3	2	1	0.8
SDSP-202	24-40	12	6	4	2	1.8
SDSP-301	30-60	15	7.5	6	3	2.4
SDSP-302	60-120	30	15	12	6	4.8
SDSP-303	90-180	45	22.5	18	9	7.2
SDSP-351	60-120	30	15	12	6	4.8
SDSP-352	120-240	60	30	24	12	9.6
SDSP-353	180-360	90	45	36	18	14.4
SDSP-354	240-480	120	60	48	24	19.2
SDSP-401	100-170	50	25	17	8.5	6.8
SDSP-402	200-340	100	50	34	17	13.6
SDSP-403	300-510	150	75	51	25.5	20.4
SDSP-404	400-680	200	100	68	34	27.2

