

**Sludge  
De-Watering Machine  
Multi Disk Screw Press**



## PRODUCT DETAILS

Twin Lobe Rotary Air Blowers | Compressors  
Tri Lobe Rotary Air blowers | Compressors  
Twin Lobe Rotary Gas Blowers | Compressors  
Twin Lobe Aquaculture Blowers | Compressors  
Acoustic Hoods | Enclosures | Twin Lobe Vacuum  
Blowers | Compressors Ring Blowers | Turbine Blower

# Sludge De- Watering Machine

**A1** **BLOWERS** leading manufacturer of Roots Blowers, Now we are introduces our new product Sludge De- Watering Machine Multi Disk Screw Press.

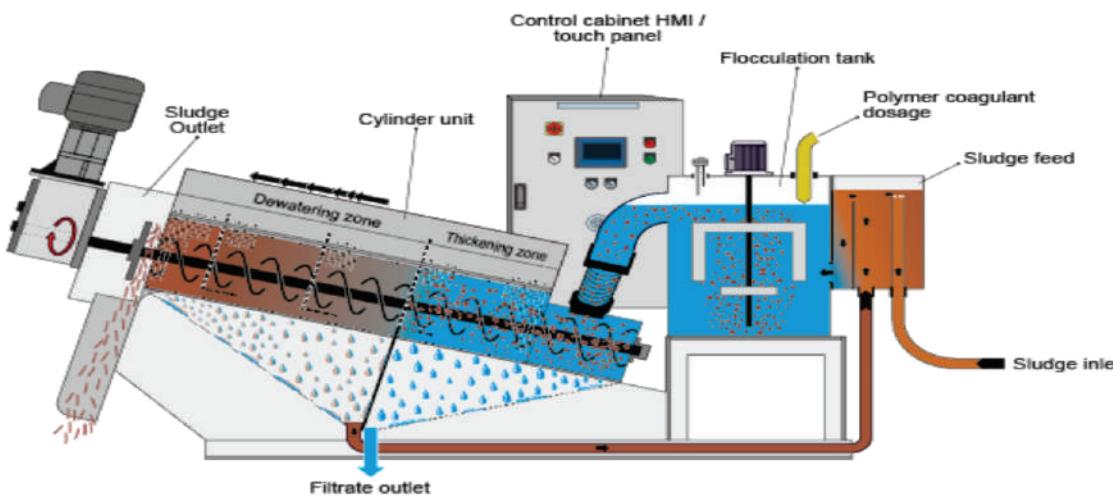
Multi-disc Screw Press Sludge Dewatering Machine, it's clog-free and can reduce the sedimentation tank and sludge thickening tank, saving the cost of sewage plant construction. Using screw and the moving rings to clean itself as clog-free structure, and controlled by the PLC automatically, it's a new technology that can replace the traditional filter press, centrifuges, 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.



**Sludge De- Watering Machine**

## 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.
- Less Noise, less odour.



**Sludge De- Watering Machine**  
**Multi Disk Screw Press**

## Features

- **Flow Control Tank :-**  
Feeds a fixed amount of sludge to the flocculation tank whilst the excess sludge returns to the storage tank.
- **Flocculation Tank :-**  
A Polymer is mixed with the sludge to form flocks suitable for the Volute.
- **Thickening Zone in cylinder unit :-**  
The sludge enters the thickening zone, and the initial effluent is discharged whilst the thickened sludge is pushed towards the dewatering zone by the screw.
- **Dewatering Zone :-**  
In the section the gap 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 deters the sludge.
- **End Plate :-**  
The end plate creates further pressure from the outlet side so that the sludge becomes drier, resulting in an up to 35% solid sludge cake which is released from the sludge cake outlet.

# Technical Data Sheet

(AVAILABLE MODELS)

**A1 DEWTING**  
SCREW PRESS

Model	Dry Sludge (Kg/hr)	Inlet Flow @1% Conc.	Electrical Load (KW)	Dimension in MM			Rinsing Water (L/hr)
				L	W	H	
A1-DWM 0.5	2-5 kg/hr	0.5 m3/hr	0.36	1500	710	950	30
A1-DWM 1.0	5-10 kg/hr	1.0 m3/hr	0.36	1900	700	1000	40
A1-DWM 1.5	10-15 kg/hr	1.5 m3/hr	0.36	2100	800	1000	50
A1-DWM 2.0	15-20 kg/hr	2.0 m3/hr	0.54	2300	900	1250	60
A1-DWM 3.0	20-30 kg/hr	3.0 m3/hr	0.55	3000	900	1200	80
A1-DWM 4.0	30-40 kg/hr	4.0 m3/hr	0.55	3050	900	1300	100
A1-DWM 6.0	40-60 kg/hr	6.0 m3/hr	0.92	3100	950	1600	150
A1-DWM 10	70-100 kg/hr	10.0 m3/hr	1.25	3200	1000	1650	200
A1-DWM 15	120-150 kg/hr	15.0 m3/hr	1.30	3400	1100	1650	250
A1-DWM 20	160-200 kg/hr	20.0 m3/hr	1.47	4100	1100	2200	300
A1-DWM 25	200-250 kg/hr	25.0 m3/hr	1.87	4100	1100	2200	350
A1-DWM 30	250-300 kg/hr	30.0 m3/hr	2.75	4000	1500	2130	450
A1-DWM 40	300-400 kg/hr	40.0 m3/hr	2.95	4300	1500	2200	600
A1-DWM 50	410-500 kg/hr	50.0 m3/hr	3.75	4400	1500	2200	700



Due to continuous Research & Development specifications may change without any notice.



**A1 DEWTING**  
SCREW PRESS

**A1 BLOWERS India Pvt. Ltd.**

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# Application

- Domestic & Municipale STP
- Food & Beverages
- Slaughter breeding
- Printing & dyeing
- Chemical
- Oil
- Paper & pulp
- Petrochemical Etc.

## Root Blower



## Vacuum Pump



## Vacuum Boster



## Ring Blower



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# A1 Blowers

Blowers & Vacuum Boosters  
An ISO 9001 : 2008 Certified Company