

SCREW DEHYDRATOR S-DEY

CONSTRUCTION FEATURES

The machine is completely enclosed and made up of the following elements:

- External structure with inspection windows and support feet,
- Mud inlet pipe,
- Drainage water outlet pipe
- Output hopper
- Feet support
- Fixed dewatering basket of the special mesh type with trapezoidal bars wrapped around a tapered skeleton, duly reinforced.
- Rotating system equipped with spray nozzles for external cleaning of the cylinder, mounted coaxially to the cylinder
- Tapered screw placed inside the dewatering basket with a conical shape and decreasing pitch, equipped with a special cleaning brush to avoid clogging.
- Worm screw gearmotor for moving the auger and the cleaning system
- Door with pneumatic piston
- Mud pressure and humidity sensor.
- CAPACITIES FROM 10 TO 1000 KG/H

STANDARD EXECUTION: Entirely made of AISI 304 stainless steel

Operation

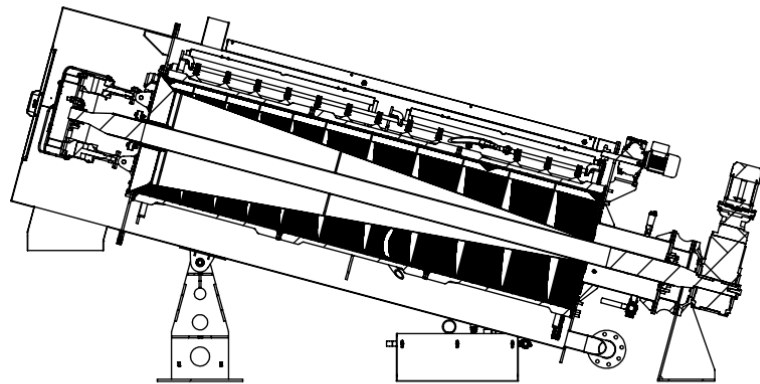
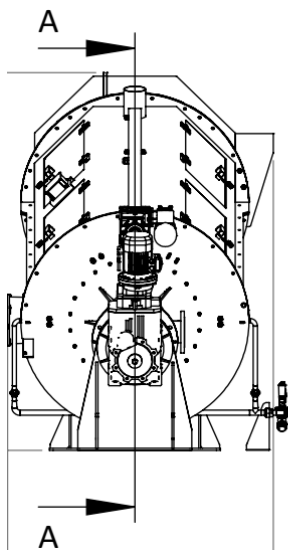
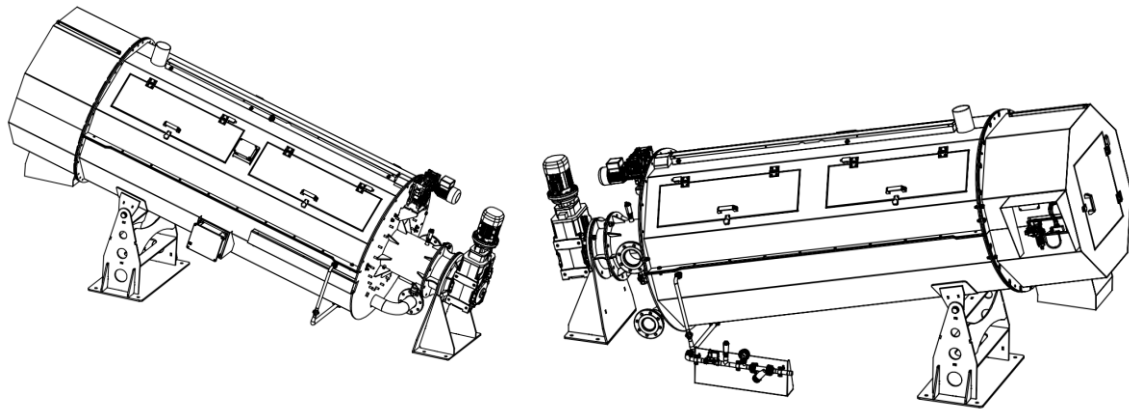
The flocculated and pumped sludge is conveyed inside a fixed cylindrical sieve inside which a screw whose diameter varies, rotates slowly, allowing the removal of the solid sludge from the grate itself. The mud is transported towards the exit, undergoing compaction given by the variation in the diameter of the auger, by the narrowing of the pitch of the spiral, and by the resistance at the exit given by a door equipped with a calibratable piston. When the piston at the exit receives an internal pressure sufficient to push it out, the compacted and dehydrated mud is expelled.

During pressing, outside the trislot screen, but still inside the machine, there is a rotating system which, as soon as the dewatering basket becomes clogged, is cleaned by the rotating cleaning system with high pressure nozzles. The drainage water coming from the wringing and dehydration of the sludge, together with the washing water, is sent back into circulation at the head of the plant.

More immediate advantages are:

- the great performance of up to 96% dehydration, with the possibility of adjusting the back pressure to overcome externally
- execution in a closed car so as to avoid unpleasant odors,
- great ease of maintenance as the main components are assembled coaxially.
- Possibility of using it instead of a sludge centrifuge with considerable energy and money savings.
- Contact surface increased and improved by the inclination of the machine.
- Reduced dimensions and very low noise.
- Uninterrupted efficiency and productivity.
- Materials: metal parts made entirely of Aisi 304/316 stainless steel

SCREW DEHYFRATOR S-DEY



SEZIONE A-A

MODELS	Unit	S-DEY 200	S-DEY 400	S-DEY 600	S-DEY 800	S-DEY 1000
Dry max quantity	Kg/mc	15-90	30-180	60-350	90-540	110-1000
Power supply	kW	0,55	1,5	2,1	4,1	6,0

OMIT. s.r.l.

Tel (0039) 06 9271664 Sede legale/Registered office: : Largo Urbino 15/A- 00071 Pomezia (Roma) – Italy

Sede operativa/Factory : Via Cancelliera 10, 00041 Albano Laziale – Roma – Italy – PEC omitsrl@pec.it

