

Jacopa Storm Overflow Screen (SOS)



Jacopa screening system for Storm Water Discharges

Key Features & Benefits:

- Two Dimensional Screening & Solids Separation (Perforated Plate)
- Screening Apertures from 3mm to 8mm
- High percentage of solids removal
- Adaptability (new or existing structures)
- Upstream or Downstream installations

How We Create Value:

- Low maintenance cost of self-cleaning brushes
- Simple, low cost operation
- Easy installation/retrofit
- Reduces works maintenance
- Efficient solids removal



The Jacopa Storm Overflow Screen is used on wastewater treatment plants and networks to remove solids and floating debris prior to discharge into any storm retention tanks, streams, rivers, lakes, etc.

The screen consists of:

- Filtering semicircular curved perforated trough
- A rotating transportation screw
- Discharge of collected screenings

The loading trough is manufactured using a perforated stainless steel sheet. The screw rotates inside the semicircular trough and transports the captured debris towards the discharge zone of the screen. Special brushes mounted on the surface of the screw keep the screen face clean and allow water to pass freely through.

The start/stop cycle of the screw is managed by a level indicator located at the end of the machine.



How it Works:

The SOS screens are mounted horizontally across the overflow weir on either the upstream or downstream side. As storm water passes through the screen, debris greater than the screen aperture size is retained on the surface. A screw located inside the half cylinder screen is fitted with a brush attached to the flights. The screw sweeps the screen clean and pushes the captured debris towards the trough discharge point. Removed screenings are either returned to the sewer and carried forward to the treatment plant or elevated out of the chamber to a suitable discharge point. During storm events the screen starts automatically and operates continuously during the storm event.

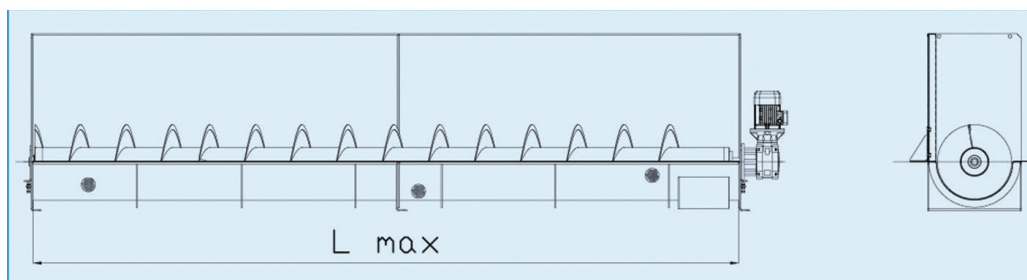
At the discharge zone collected material is ejected from the machine by means of a special pallet placed at the end of the screw.

The gear motor is compact and sized based on the length and the diameter of SOS machine.

Captured screenings can be discharged back into the flow or transported out of the area by means of a screw elevator.

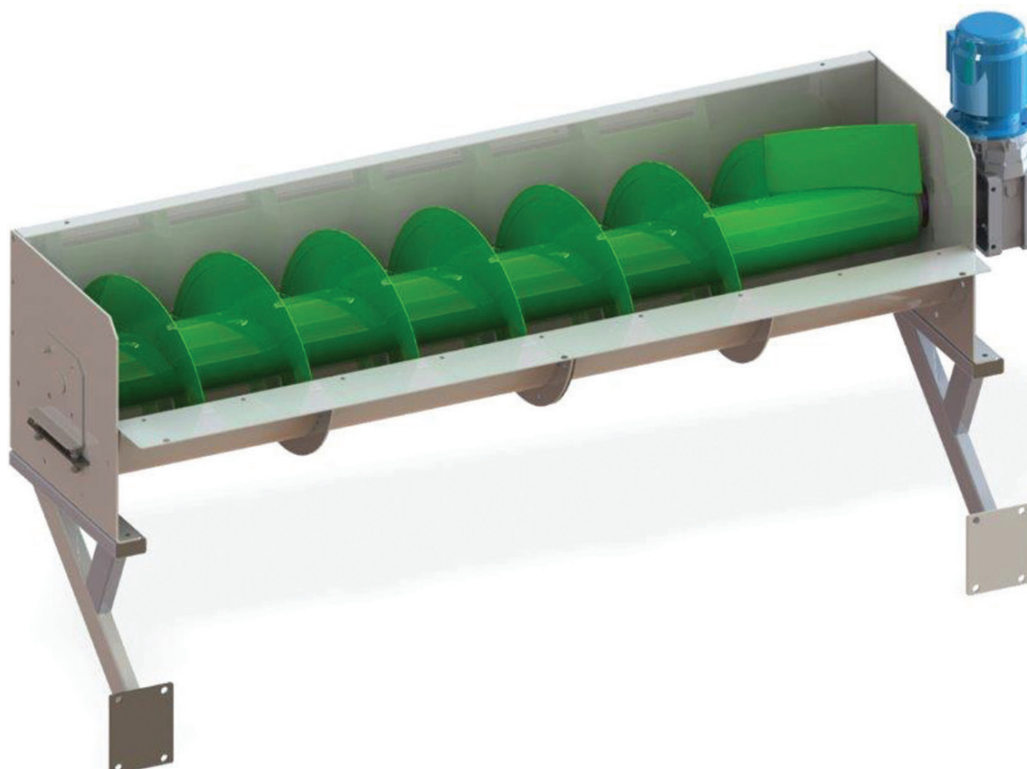


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Model			SOS 30	SOS 40	SOS 50	SOS 60	SOS 70	SOS 80
Ø	Screw Conveyor Diameter	mm	300	400	500	600	700	800
	Flow Rate	l/sec	100 – 7,200					
L Max	Filter Drum Length	mm	1,000 – 12,000					
	Frame Width	mm	400	500	660	760	860	990
	Frame Height	mm	400	550	800	950	1050	1200
	Aperture Size	mm	3 – 4 – 5 – 6 – 7 – 8					
	Motor Protection		IP55 or IP68					
	Installed Power	kw	1.1	1.1	1.5	2.2	3	4
	Rotation Speed	rpm	11					

Dependent on SOS configuration motor power ratings could be different.



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