

Jones+Attwood® Screw Classifier

First for Grit Removal

A packaged, free standing classifier, for the separation of mineral grit particles from the normal collections of solids and water, discharged by grit removal systems.

- Heavy gauge fabrication for long life.
- Free standing, can be located adjacent to the disposal container.
- Flexibility will suit most grit removal systems.
- Three-phase classification: floating solids; settled solids; liquid.
- Fully enclosed mechanism for safety.
- Auto lubrication minimizes maintenance.
- Suitable for automatic operation.

Operation

The Screw Classifier can be sited adjacent to the point of collection. The classifier is designed to receive a grit and water mixture by gravity or a pump rising main. The pump can be of the centrifugal type, positive displacement or air lift. A receiving header box is positioned on top of the unit to ensure the correct pattern of feed is achieved.



Alternatively a hydro-cyclone can be used as a receiver to the pumped flow. This will reduce the liquid proportion delivered to the classifier yet retain the min-

eral particles of the specified size range. Also it serves as a means of enhancing the classification of the grit particles from lighter organic solids.

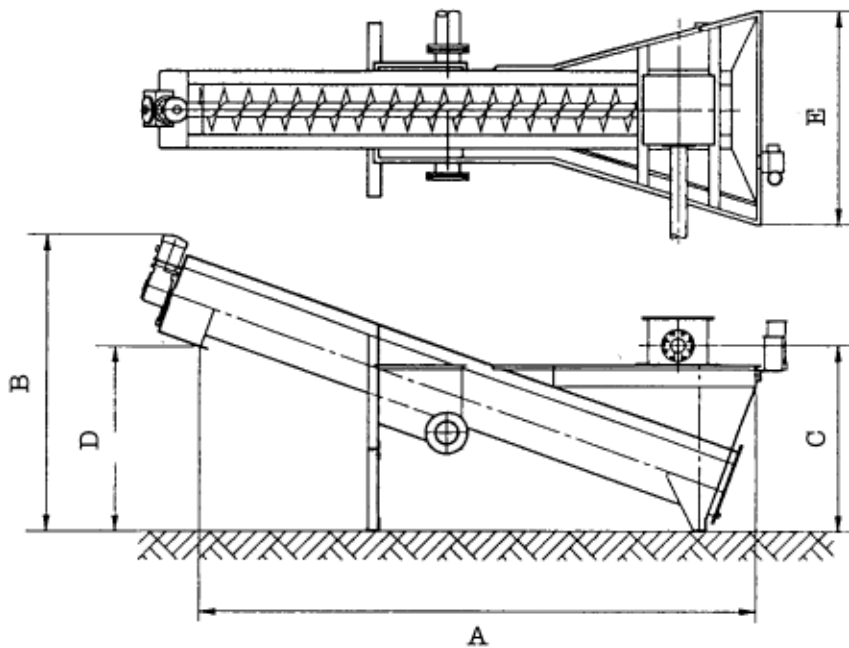


Special bottom bearing with increased surface area to prolong life. Also a large opening for maintenance is provided.

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Water containing the mixture of solids enters the settlement bowl of the classifier. The water level within the bowl is maintained by a series of weirs. A peripheral weir removes any floating solids. Set within the bowl is the inclined archemidian screw. The screw is rotated and the settled solids are transported up to the incline archemidian screw.

The screw is rotated and the settled solids are transported up the incline above the water level. A second weir is positioned within the trough wall to scalp off those solids lighter than grit. The grit product remains in the screw and is dewatered as it is elevated to the high level discharge. All extraneous solids and water are drained to the main sewage flow.



Machine Size	Dimensions in mm				
	A	B	C	D	E
100	3850	2060	1285	1200	1470
300	5210	2970	1750	2060	2124

Capacities	Max Flow Rate in L/min
Machine Size: 100	450 L/min
Machine Size: 300	1350 L/min