

GRIT SEPARATOR



Description

The grit separator consists of a shafted screw, fitted inside a semi-circular trough, which is angled at 25 degrees and has a settling chamber fixed to it. The trough or body is constructed of stainless steel and fitted with protective 3cr12 liner bars as well as the required fixtures for a motor, gearbox and support legs. The screw is driven using a motor-gearbox set, located at the top end of the trough. The separator has two grit inlet pipes and one water return pipe. The outlet chute is located at the top end of the separator, where it discharges dry grit into the waste container system. The separator is fed with a high grit content from the grit pump or airlift system. The grit settles out and after a pre-set time the grit separator screw starts, facilitating the removal of the settled grit from the hopper and discharging it into a waste container system. The return water will flow from the grit separator, directly into the start of the grit chamber, during the pumping cycle. The screw center shaft and flights are manufactured in 3CR12 and the separator body is constructed from 304 stainless steel. The bottom support bearing for the screw is positioned outside the classifier for easy maintenance.

Application

- Wastewater treatment plants
- Water treatment plants
- Mining Industry
- Food & Beverage



Features & Benefits

- Low operational costs
- Ease of maintenance



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Performance & Specification

Grit Separator- Estimated Flow Rates

- We manufacture to suit non-standard openings
- Table data subject to change to suit civil and flow conditions
- All dimensions in mm

MODEL	INLET PIPE (\varnothing)	OUTLET PIPE (\varnothing)	DRAIN PIPE (\varnothing)	SOLID CAPACITY (mm ³ /h)	CAPACITY (m ³ /h)	DRIVE CAPACITY (kW)
GS200	75NB	100NB	50NB	1500	620	0.25
GS300	100NB	150NB	75NB	1700	1060	0.37
GS400	100NB	200NB	75NB	2500	1580	0.55

MODEL	A	B	C	D	E	F	G	H	I	J	K
GS200	4165	1400	1549	2145	2750	350	666	1103	359	802	1307
GS300	6190	2020	2315	2930	3000	350	860	1820	440	900	1696
GS400	8553	2312	2563	4099	5266	350	1126	2312	557	1454	3000

