

Waste Water Treatment

GRITSEP Grit Separators DS

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Description ▼

The GRITSEP DS Grit Classifier consists of an inclined screw conveyor with a large volume hopper including an inlet spout and a water outlet spout, a shaftless screw housed in a trough, low-friction anti-wear bars, a trough cover, an outlet spout for solid particles, and a drive unit mounted at the outlet end.

Function ▼

Water to be cleaned enters the inlet spout of the GRITSEP DS Grit Classifier into the decantation hopper where sedimentation of the solid particles is taking place. Thanks to the shaftless design and the low screw rotation is possible to achieve an high efficiency in conveying, dewatering and discharging of the sedimented grit.

Cleaned water exits through the lateral hopper discharge spout. A Drainage valve at the bottom of the screw, guarantees an easy maintenance of the machine.



Application ▼

Successfully installed for dewatering sand after a grit treatment process in municipal or industrial waste water treatment plants or industrial washing processes.

Benefits ▼

- ✓ Absence of bearings under water level;
- ✓ Low installation, operational and maintenance costs;
- ✓ Shaftless heavy-duty screw ensuring durability;
- ✓ Low speed of conveying screw;
- ✓ Easily replaceable bolted wear bars.

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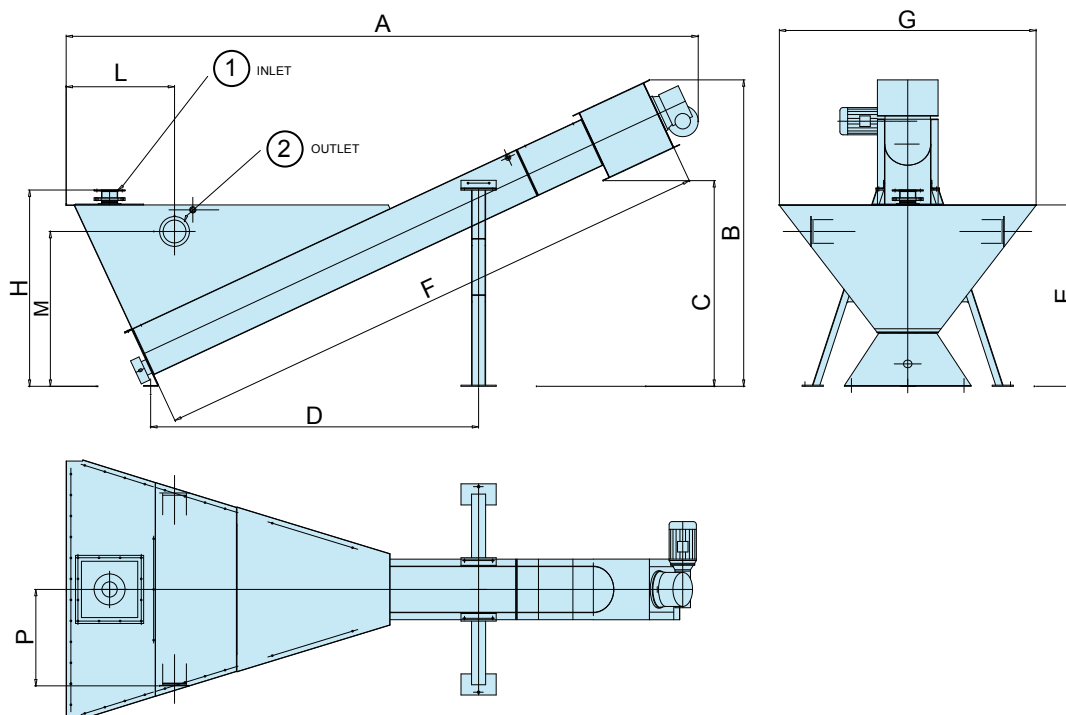
Technical Features / Performance ▼

- ▶ 304L / 316L SS hopper with special designed anti locking system
- ▶ Trough in stainless steel (304L or 316L) equipped with wear-resistant sliding bar
- ▶ Shaftless screw made up from sections of heavy-duty, wear-resistant carbon steel (or 304L / 316L SS)
- ▶ Efficiency: 90% separation of sand with grain size ≥ 0.2 mm and specific gravity 2.60 - 2.65
- ▶ Metal - plastic composite liner available (option)



MODEL	Portata (l/s)	Rapporto di estrazione		Volume serbatoio (l)
		m ³ /h	l/s	
DS 400	5	0.22	0.06	400
DS 1000	8.3	0.29	0.08	800
DS 2000	22.2	0.29	0.08	1,950
DS 3400	27.8	0.29	0.08	3,010
DS 4000	36	1.3	0.36	3,950

Overall Dimensions ▼



MODEL	A	B	C	D	E	F	G	H	L	M	P	Flange ① UNI	Flange ② UNI
DS 400*	3,710	2,020	1,450	1,995	1,390	3,365	1,215	1,490	490	1,270	650	DN80PN10	DN100PN10
DS 1000	4,490	2,170	1,460	2,330	1,290	4,000	1,830	1,400	770	1,100	685	DN100PN10	DN150PN10
DS 2000	5,480	2,580	1,850	3,215	1,650	5,00	2,396	1,805	765	1,400	980	DN125PN10	DN200PN10
DS 3400	6,485	3,015	2,320	3,180	2,038	6,015	2,410	2,190	790	1,844	1,090	DN200PN10	DN250PN10
DS 4000	6,590	3,090	2,370	3,960	2,180	6,015	2,510	2,330	865	1,985	1,140	DN400PN10	2x DN250PN10

* Transport system in tubular screw

For reference only: for detailed drawings please contact the Manufacturer

Dimensions in mm

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