

Waste Water Treatment

Screw Screens WASTEMASTER GCP / GCE



6



Description ▼

The WASTEMASTER GCP Screw Screen for channel application consists of a screen basket, a conveyor screw and a compaction section. GCE is almost identical with GCP but misses the compaction section. It is suitable for applications where screenings may not or cannot be compacted.

Function ▼

The process starts inside the screen which holds back solids only. The internal part of the screen is continuously cleaned by special brushes fixed on the outside diameter of the flighting. As the water runs through the screen the shaftless spiral conveys the solids up towards the compaction module where the material is further de-watered. Depending on the material properties, screenings can be reduced by more than 40% of their original volume.



Application ▼

In-Channel Screw Screen application for solids removal in municipal or industrial waste water plants.

Benefits ▼

- ✓ **Shaftless spiral: no jamming or blocking even with fibrous products;**
- ✓ **Solids volume reduction up to 40% (only for GCP);**
- ✓ **Absence of intermediate bearings;**
- ✓ **Slow r.p.m.;**
- ✓ **Possibility of discharge into continuous bags;**
- ✓ **Long-life special segmented screw brushes;**
- ✓ **Low investment, operational and maintenance costs;**
- ✓ **Cost reduction for waste water treatment.**

Waste Water Treatment

Screw Screens WASTEMASTER GCP / GCE



Technical Features / Performance ▼

- ▶ Carpentry in SS 304L or SS 316L
- ▶ Heavy-duty shaftless conveyor screw in mild steel, 304 SS or 316 SS
- ▶ Throughput rates up to 1,000 m³/h:

Model GCP/GCE	Flow Rate l/sec *							
	Wedge wire (mm)			Round Holes (mm)				
	0,5	1	2	2	3	5	6	10
300	28	37	48	22	40	50	45	60
400	53	69	91	45	75	85	80	95
500	93	120	156	80	130	145	137	155
600	135	176	229	120	190	225	205	235
700	178	231	301	170	250	300	280	310

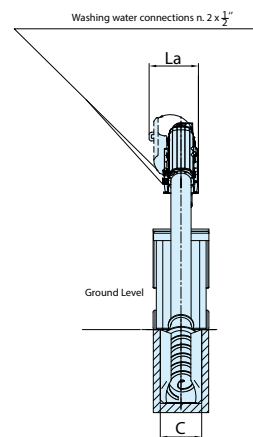
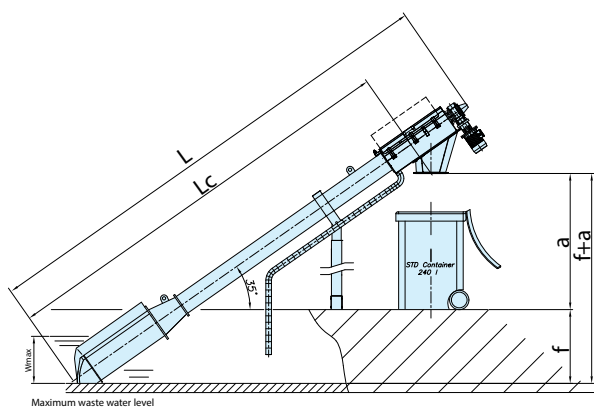
* The values refer to technical water.

- ▶ Screen mesh size:

Screen Type							
Wedge Wire Screens (mm)			Drilled Screens (mm)				
0,5	1	2	2	3	5	6	10

- ▶ Screen width ranging from 300 mm to 700 mm

Overall Dimensions ▼



Type	Lc		L		W	C	
	min.	max.	min.	max.		min.	max.
300	2,500	8,000	3,200	8,700	460	300	340
400	2,500	8,000	3,200	8,700	510	400	440
500	3,000	9,000	3,700	9,700	620	520	560
600	3,500	9,000	4,300	9,800	690	640	680
700	4,000	9,500	4,800	10,300	790	720	760

This document has been edited for distribution in European Union countries.