

Waste Water Treatment

Screw Screens WASTEMASTER GCPC-GCEC



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Description ▼

WASTEMASTER GCPC-GCEC is a screw screen for pumped wastewater installed inside a dedicated carpentry tank, and it consists of an open screen basket, a conveyor screw and a compaction section. WASTEMASTER GCEC is almost identical to GCPC but lacks the compaction section. It is suitable for applications where screenings may not or cannot be compacted. Both machines are installed in a self-supporting container.

Function ▼

The process starts inside the screen which holds back solids only. The internal part of the screen is continuously cleaned by 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 ▼

WASTEMASTER GCPC-GCEC are commonly used in all above-ground applications, both municipal and industrial. The waste water is commonly pumped through the machine and no ground works are required.

Benefits ▼

- ✓ Shaftless spiral: no jamming or blocking even with fibrous products;
- ✓ Volume reduction up to 40% (only for GCPC);
- ✓ Absence of intermediate bearings;
- ✓ Slow r.p.m.;
- ✓ Possibility of discharge into continuous bags;
- ✓ Optional accessories (washing of organic materials, heating system, verticalizer);
- ✓ Long-life special segmented screw brushes;
- ✓ Low investment, operational and maintenance costs.

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Technical Features / Performance

- ▶ Sturdy, completely enclosed structure complying with safety regulations preventing bad odours
- ▶ Welds washed, passivated and brushed to ensure high-quality finishing
- ▶ Flow rates up to 1,000 m³/h
- ▶ Metal framework manufactured from 304L/316L SS
- ▶ Conveyor screw manufactured from special highly resistant steel with increased surface hardness (304 / 316 SS as option)

Model GCPC/ GCEC	Flow Rate l/sec *							
	Wedge Wire Screens (mm)			Round Holes Screen (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

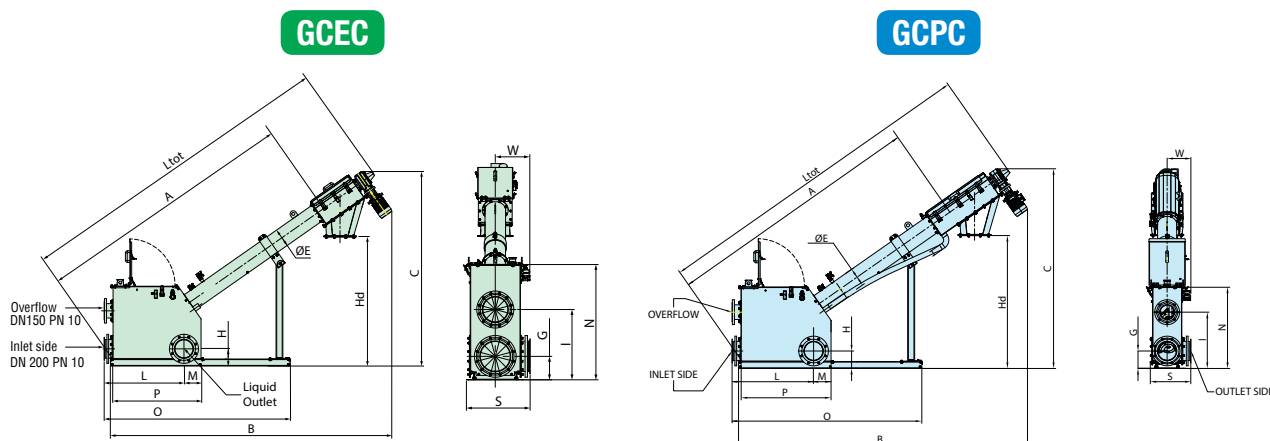
* The values refer to technical water.

- ▶ Screen mesh size:

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

- ▶ Screen width ranging from 300 mm to 700 mm

Overall Dimensions



	GCEC 300	GCEC 400	GCEC 500	GCEC 600	GCEC 700	GCPC 300	GCPC 400	GCPC 500	GCPC 600	GCPC 700
A	2,990	2,960	2,955	2,970	3,475	2,990	2,970	2,970	3,080	3,470
B	3,335	3,305	3,305	3,415	3,830	3,300	3,315	3,315	3,505	3,825
C	2,290	2,290	2,300	2,380	2,685	2,290	2,280	2,310	2,435	2,680
ØE	219	219	219	273	273	219	219	219	273	273
G	200	230	250	300	350	200	230	250	300	350
H	200	230	250	300	350	200	230	250	300	350
Hd	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
I	645	765	850	980	1,100	645	765	850	980	1,100
L	935	1,205	1,255	1,365	1,505	935	1,205	1,255	1,365	1,505
M	200	200	250	300	350	200	200	250	300	350
N	935	1,180	1,230	1,380	1,580	935	1,180	1,230	1,380	1,580
O	2,200	2,200	2,155	2,275	2,675	2,200	2,200	2,155	2,275	2,675
P	1,030	1,300	1,400	1,560	1,780	1,030	1,300	1,400	1,560	1,780
S	480	580	680	780	880	480	580	680	780	880
W	270	320	370	420	470	270	320	370	420	470
L total	3,690	3,660	3,665	3,820	4,325	3,700	3,680	3,680	3,930	4,320

Dimensions in mm

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