

# In-Piping Screw Screen WASTEMASTER® GCEC - GCPC



# SCREW SCREEN IN SELF-SUPPORTING TANK

The WASTEMASTER® GCEC GCPC Screw Screen is a combined machine for the separation of solids present in effluents and the compaction and de-watering of the extracted solids. It is designed to be fed by a pump or by gravity.

The suspended solids are retained by the screen, increasing the liquid level in the front part of the screen. At this point the screw starts operating, cleaning the screen by means of brushes fixed on the outer part of the screw flighting, removing the material, and then de-watering and compacting it (GCPC only).

The machine consists of the following parts:

- Screen;
- Conveyor screw;
- Compactor (GCPC only);

The conveyor screw consists of a shaftless spiral which collects the solids from the bottom of the screen conveying them without risk of clogging.

The compactor in the upper part, equipped with washing section for lowering organic fractions, uses the conveyor screw for compaction and de-watering of the screenings (GCPC only).

## Technical features

- GCEC and GCPC have a sturdy metal framework, (completely enclosed structure complying with safety regulations and preventing odors) manufactured entirely from 304L / 316L stainless steel
- Shaftless conveyor screw manufactured from 304 / 316 stainless steel or special high-resistance steel
- Flow rates up to 590 cfm
- Solids extraction up to 0.01 cfs
- Screens have a special mesh suitable for particular characteristics of waste water and solids



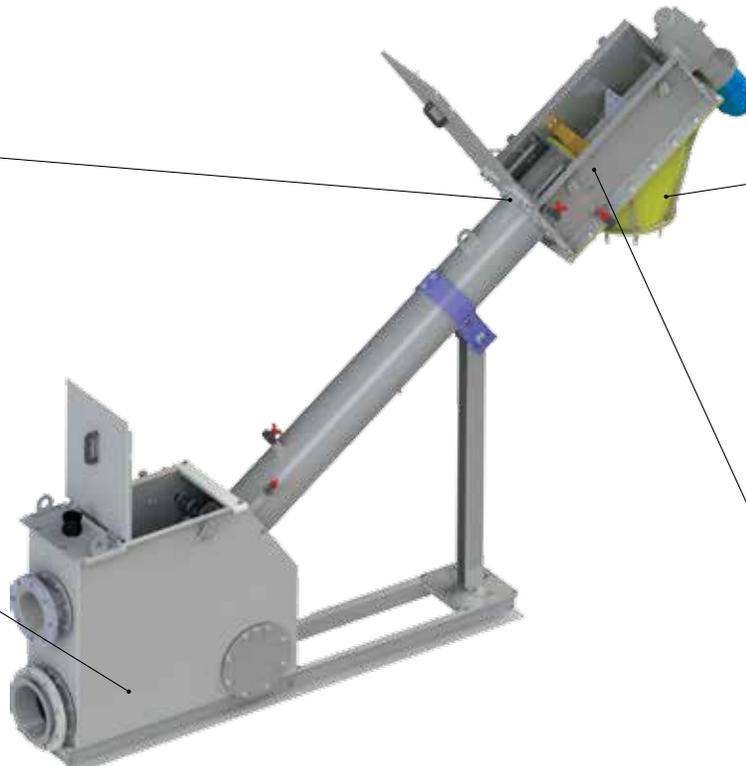
Insulated Discharge Module



GCEC and GCPC Outlet Sections



Inlet Screen Basket with Splash Guard



GCPC Outlet Top View

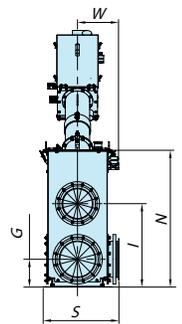
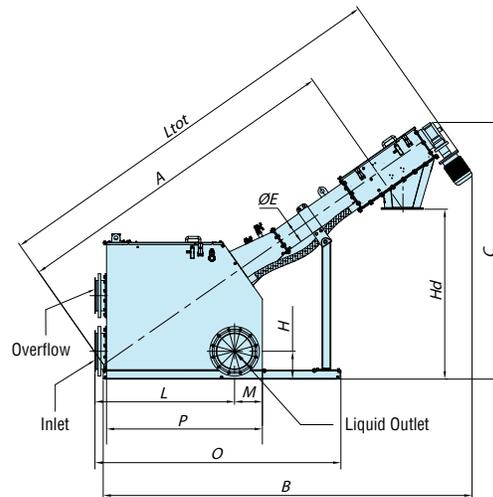
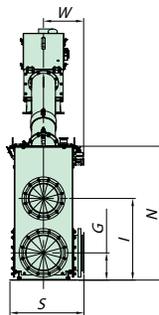
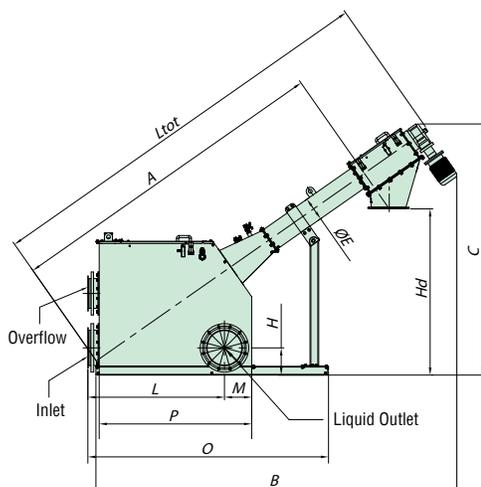
## Benefits

- ✓ Screening, conveying and compacting in a single unit using one drive only;
- ✓ Easy installation, low maintenance and low operating costs;
- ✓ Outdoor installation with optional anti-freeze accessories;
- ✓ No clogging even with fibers thanks to shaftless screw design.

## Overall Dimensions

**GCEC**

**GCPC**



|                | GCEC 300 | GCEC 400 | GCEC 500 | GCEC 600 | GCEC 700 | GCPC 300 | GCPC 400 | GCPC 500 | GCPC 600 | GCPC 700 |
|----------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| <b>A</b>       | 117.7    | 116.5    | 116.3    | 116.9    | 136.8    | 117.7    | 116.9    | 116.9    | 121.3    | 136.6    |
| <b>B</b>       | 131.3    | 130.1    | 130.1    | 134.4    | 150.8    | 129.9    | 130.5    | 130.5    | 138.0    | 150.6    |
| <b>C</b>       | 90.2     | 90.2     | 90.6     | 93.7     | 105.7    | 90.2     | 89.8     | 90.9     | 95.9     | 105.5    |
| <b>ØE</b>      | 8.6      | 8.6      | 8.6      | 10.7     | 10.7     | 8.6      | 8.6      | 8.6      | 10.7     | 10.7     |
| <b>G</b>       | 7.9      | 9.1      | 9.8      | 11.8     | 13.8     | 7.9      | 9.1      | 9.8      | 11.8     | 13.8     |
| <b>H</b>       | 7.9      | 9.1      | 9.8      | 11.8     | 13.8     | 7.9      | 9.1      | 9.8      | 11.8     | 13.8     |
| <b>Hd</b>      | 59.1     | 59.1     | 59.1     | 59.1     | 59.1     | 59.1     | 59.1     | 59.1     | 59.1     | 59.1     |
| <b>I</b>       | 25.4     | 30.1     | 33.5     | 38.6     | 43.3     | 25.4     | 30.1     | 33.5     | 38.6     | 43.3     |
| <b>L</b>       | 36.8     | 47.4     | 49.4     | 53.7     | 59.3     | 36.8     | 47.4     | 49.4     | 53.7     | 59.3     |
| <b>M</b>       | 7.9      | 7.9      | 9.8      | 11.8     | 13.8     | 7.9      | 7.9      | 9.8      | 11.8     | 13.8     |
| <b>N</b>       | 36.8     | 46.5     | 48.4     | 54.3     | 62.2     | 36.8     | 46.5     | 48.4     | 54.3     | 62.2     |
| <b>O</b>       | 86.6     | 86.6     | 84.8     | 89.6     | 105.3    | 86.6     | 86.6     | 84.8     | 89.6     | 105.3    |
| <b>P</b>       | 40.6     | 51.2     | 55.1     | 61.4     | 70.1     | 40.6     | 51.2     | 55.1     | 60.5     | 70.1     |
| <b>S</b>       | 18.9     | 22.8     | 26.8     | 30.7     | 34.6     | 18.9     | 22.8     | 26.8     | 30.7     | 34.6     |
| <b>W</b>       | 10.6     | 12.6     | 14.6     | 16.5     | 18.5     | 10.6     | 12.6     | 14.6     | 16.5     | 18.5     |
| <b>L total</b> | 145.3    | 144.1    | 144.3    | 150.4    | 170.3    | 145.7    | 144.9    | 144.9    | 154.7    | 170.1    |

*Dimensions in inch*

## Accessories

- Bag clamping system
- Endless tube

# Application



January 2014  
Rights reserved to modify technical specifications.



**WAM Inc.**  
Georgia Division  
75 Boulderbrook Circle  
Lawrenceville, GA 30045  
Tel.: (770) 339 - 6767  
Fax: (770) 339 - 4727  
wamgeorgia@waminc.com  
www.waminc.com

**WAM Inc.**  
Texas Division  
1300 Triad Blvd.  
Fort Worth, TX 76131  
Tel.: (817) 232 - 2678  
Fax: (817) 232 - 2676  
wamtexas@waminc.com  
www.waminc.com



[www.wamgroup.com](http://www.wamgroup.com)