



## LACKEBY GRIT CLASSIFIER GC

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# High performance grit separation and world class quality

Because of its reliability, long lifetime and low energy consumption, Lackeby's Grit classifier unit is definitely a worthwhile investment. It is designed to separate grit or other types of sedimentary particles. The robust design ensures high reliability and long technical service life, while maintenance requirements are minimal.

### **Applications:**

- Grit separation
- Separation of any high-density particles from process or waste water (Industry).

### **High performance:**

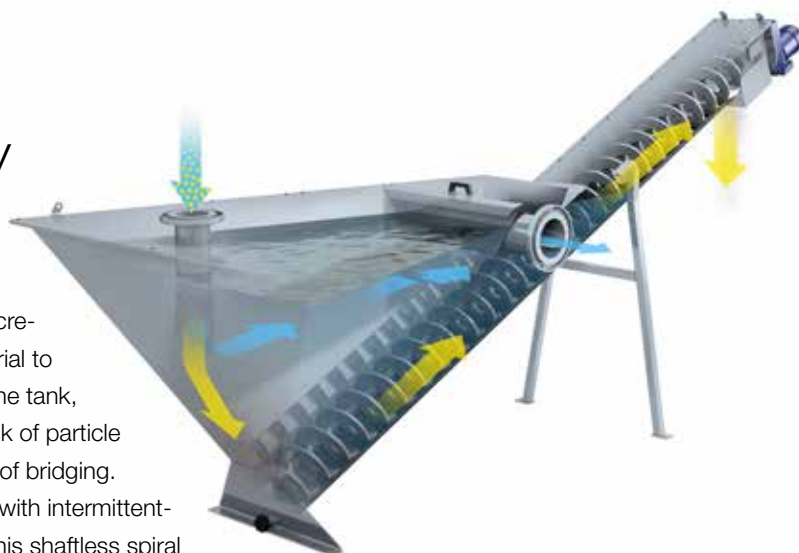
- Enhances efficiency of separation process for solid material
- Maximises classifying and dewatering
- Minimises maintenance.

### **Technical features:**

- Robust design
- Long technical service life
- Shaftless screw conveyor for dewatering and discharge of separated material
- No submerged bearings required.

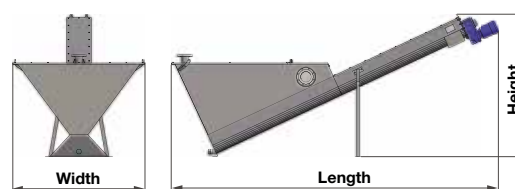
# When high efficiency, low costs and reliability are the priorities

The incoming water flow is led into the wider section of the tank through the top-mounted inlet. A vertical plate creates an even laminar flow, which enables the solid material to settle. The outlet is positioned in the narrow section of the tank, which is fitted with an overflow channel to reduce the risk of particle migration. The tank walls slope steeply to avoid the risk of bridging. Settled material is transported out via a shaftless spiral, with intermittently slowly rotating operation, for maximum dewatering. This shaftless spiral reduces the need for maintenance, as there is no bearing at the bottom of the through.



## Design simplicities

As a standard configuration, the classifier is manufactured in stainless steel or acid-proof steel. The unit is fitted with a shaftless spiral made of carbon steel (standard) or stainless steel (option) in the bottom of the through. The throughs are equipped with Hardox wear bars or Robalon wear liners. As additional options the wear liners are available for special applications such as high abrasive materials in mining or metal recycling industries.



## Technical data

		GC 09-220	GC 12-260	GC 20-320	GC 27-360	GC 35-420	GC 60-600
Flow capacity	l/s	1-5	5-12	12-20	20-27	27-35	35-60
Capacity outgoing grit	m <sup>3</sup> /h	0.4	0.6	0.7	0.85	1.0	1.6
Surface area	m <sup>2</sup>	1.87	2.10	2.76	3.20	4.32	8.94
Tank volume	m <sup>3</sup>	0.68	0.86	1.35	2.05	3.25	10.35
Length	mm	4670	4740	5300	6760	7610	9875
Width	mm	1730	1915	2115	1910	2230	2425
Height	mm	1990	2020	2255	2940	3335	5240
Net weight	kg	465	565	670	750	1145	4450
Gross weight (water and grit)	kg	1235	1535	2160	3010	4725	15500
Motor power	kW	0.37	0.37	0.55	0.55	0.75	2.2
Rated current	A	1.22	1.22	1.54	1.54	1.79	4.27
Inlet connection		DN 100	DN 100	DN 150	DN 150	DN 200	DN 250
Outlet connection		DN 150	DN 150	DN 200	DN 200	DN 250	DN 300
Drainage connection		DN 50	DN 50	DN 50	DN 50	DN 50	DN 50

Lackeby Products AB has more than 50 years of experience in designing and manufacturing high performance products for resource-efficient heat recovery and wastewater recycling. In our production facilities in Sweden we have made thousands of products for the toughest environments world wide.

We are well known for our ability to customize products to each customer's unique requirements. All of our products are characterized by reliability, long life cycles and easy maintenance making Lackeby Products a trusted partner and supplier of products for plant upgrades or new plant constructions. We guarantee high quality, excellent performance and complete satisfaction.



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