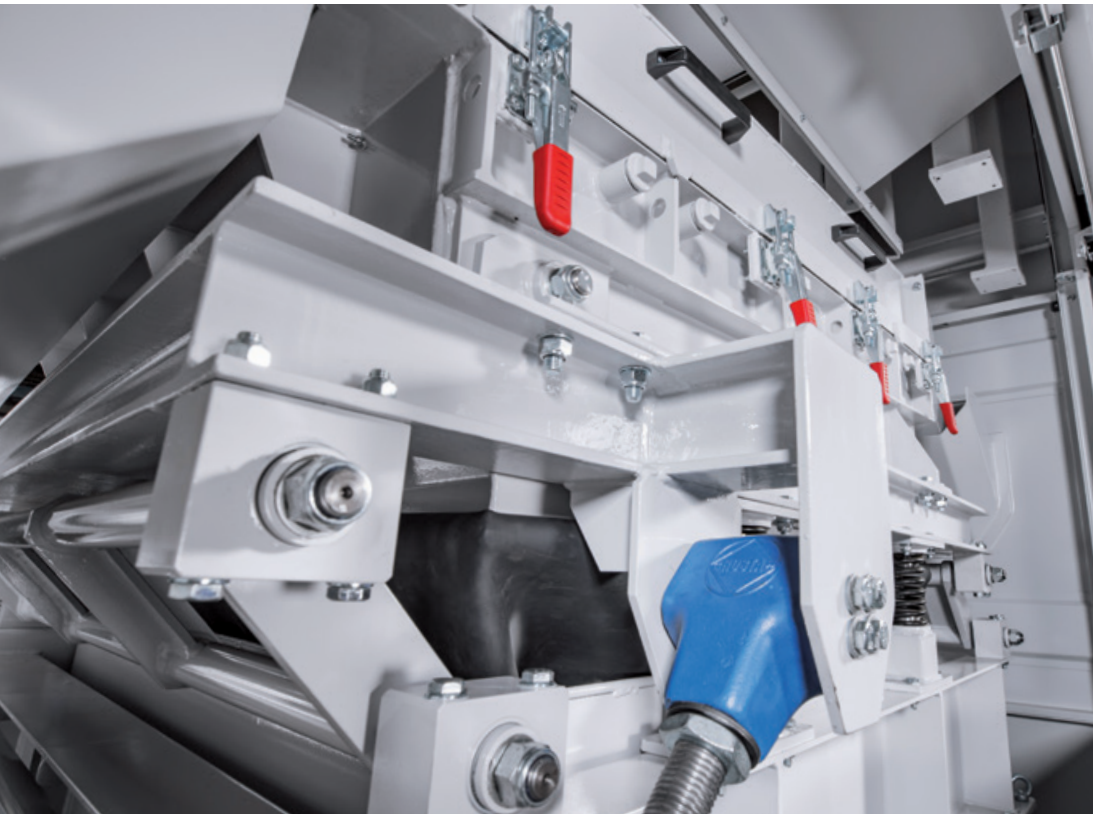


## GSort

Maximize your separation quality. Minimize your costs.



INNOVATION



# GSort – The key to perfect separation

The requirements for separating materials with different densities are becoming more and more demanding. And regardless of whether it comes to the purity of the separated materials, the machine's performance, or adherence to environmental standards that guarantee a sustainable process – Allgaier delivers the right answer with its newest development.

## The advantages at a glance

	BETTER PERFORMANCE	The GSort beats established sorting methods with a performance increase of up to 80%.
	MINIMAL PROCESS COSTS	The new GSort can replace or complement wet gravity separators. This not only improves water management, but also reduces energy costs. Moreover, the new design lowers assembly, disassembly, and transportation costs.
	ENHANCED SAFETY	A reengineered safety concept with a new cover significantly improves safety and conforms to the latest technical standards.
	MAXIMUM FLEXIBILITY	Sorting parameters can be adjusted individually. The machine's overall height has been reduced for an optimized equipment footprint. Additionally it can handle aggressive fluids.
	ROBUST DESIGN	The new design minimizes downtimes and guarantees stable performance.
	EASY HANDLING AND OPERATION	Intuitive handling. Simple design. Easy to assemble, disassemble, and transport.
	ENVIRONMENTALLY FRIENDLY	The switch to a dry method not only saves water, but also significantly reduces energy consumption per metric ton.

## How it works

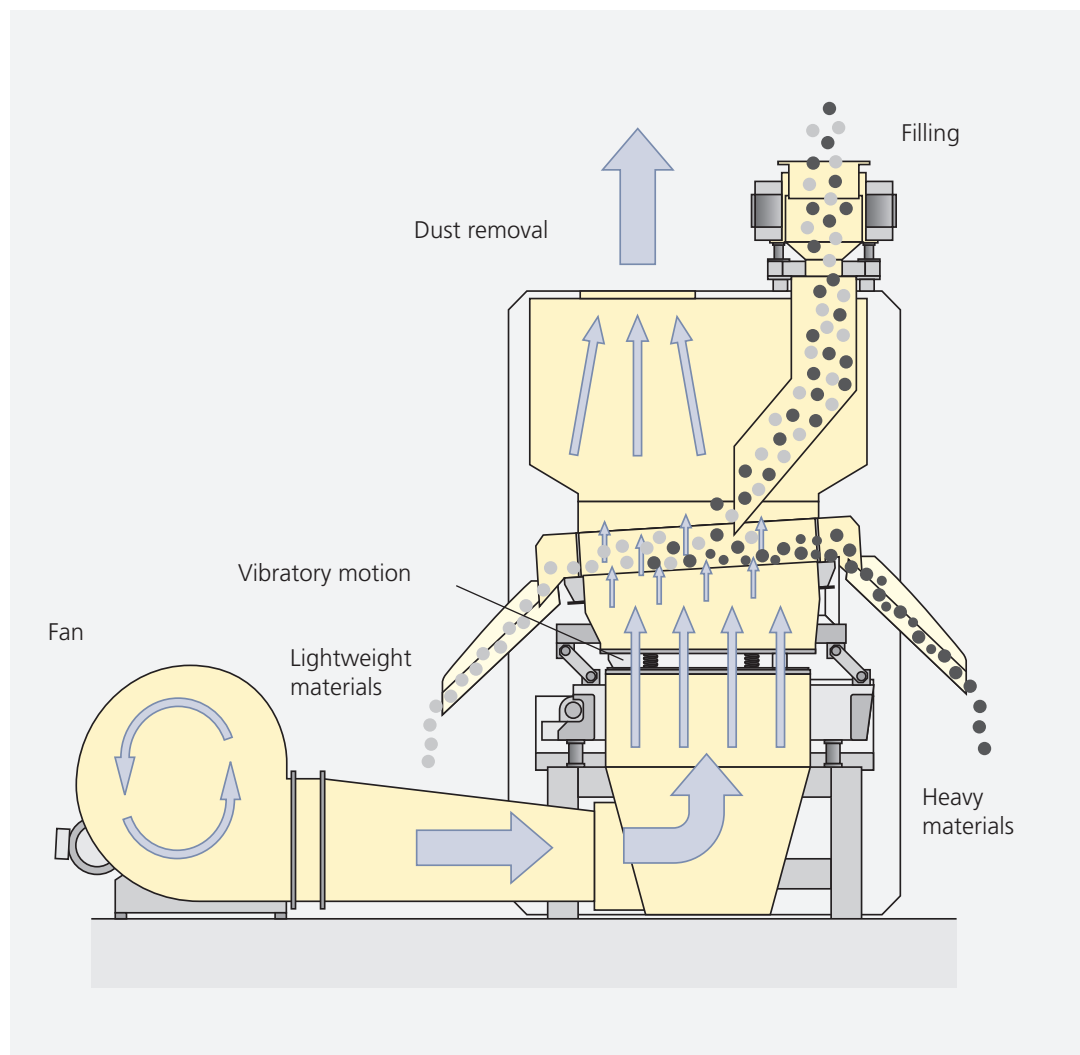
The GSort's density separation process is based on a tilted, vibrating deck. An upward stream of air passes through this deck, having two important effects on the materials being separated:

- Materials with a lower density will move downwards, without any contact with the deck, as a result of the inclination.
- Materials with a higher density will stay in contact with the deck and be conveyed upwards by the vibration.

The GSort makes it possible to adjust parameters individually, quickly, and easily, ensuring that the machine is always perfectly tuned for the materials being separated. This high precision is achieved by adjusting the following parameters:

- Flow and air speed distribution
- Overflow flap height
- Inclination of the table
- Vibration frequency

After installation and adjustment of the needed air flow, the air flow distribution is adjusted by an efficient mechanism within the table.



## Product variants

The GSort can separate materials with a high density and a size of up to 80 mm, depending on the density of the material to be treated.

The flexible configuration options ensure that a large range of materials can be processed. For a specific product mix is the production capacity proportional to the difference of the material density. At low density differences, a pre-screening in fractions is recommended for the product mixtures. We can work with you to provide the right GSort model for your application so that your investment will truly pay off.

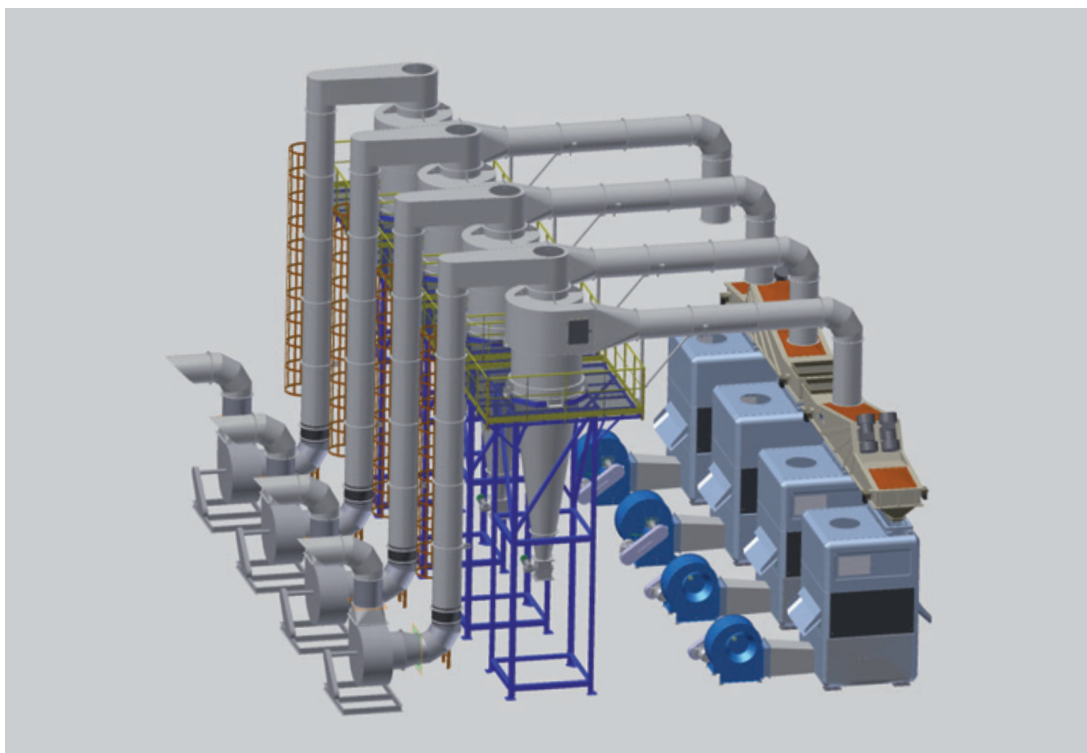
### Options

The treatment of the exhaust air of GSort takes place via cyclones or bag filter systems, which separates air and dust. The cleaned air is extracted by a fan.

Combined with our GOSAG vibrating distributors, it is possible to operate up to four GSort in parallel. With our Allgaier MSizer it is possible to treat different fractions that can later be treated with the GSort or in combination with our Allgaier MSort electro-optical classifiers.

### Overview of available models

Model	G06	G13	G19
Densimetric table width (m)	0.5	1	1.5
Working surface area (m <sup>2</sup> )	0.65	1.3	1.95



## Applications

The GSort's versatility encompasses a broad range of materials and processes. It is particularly effective in handling the flowing materials:

### RECYCLING

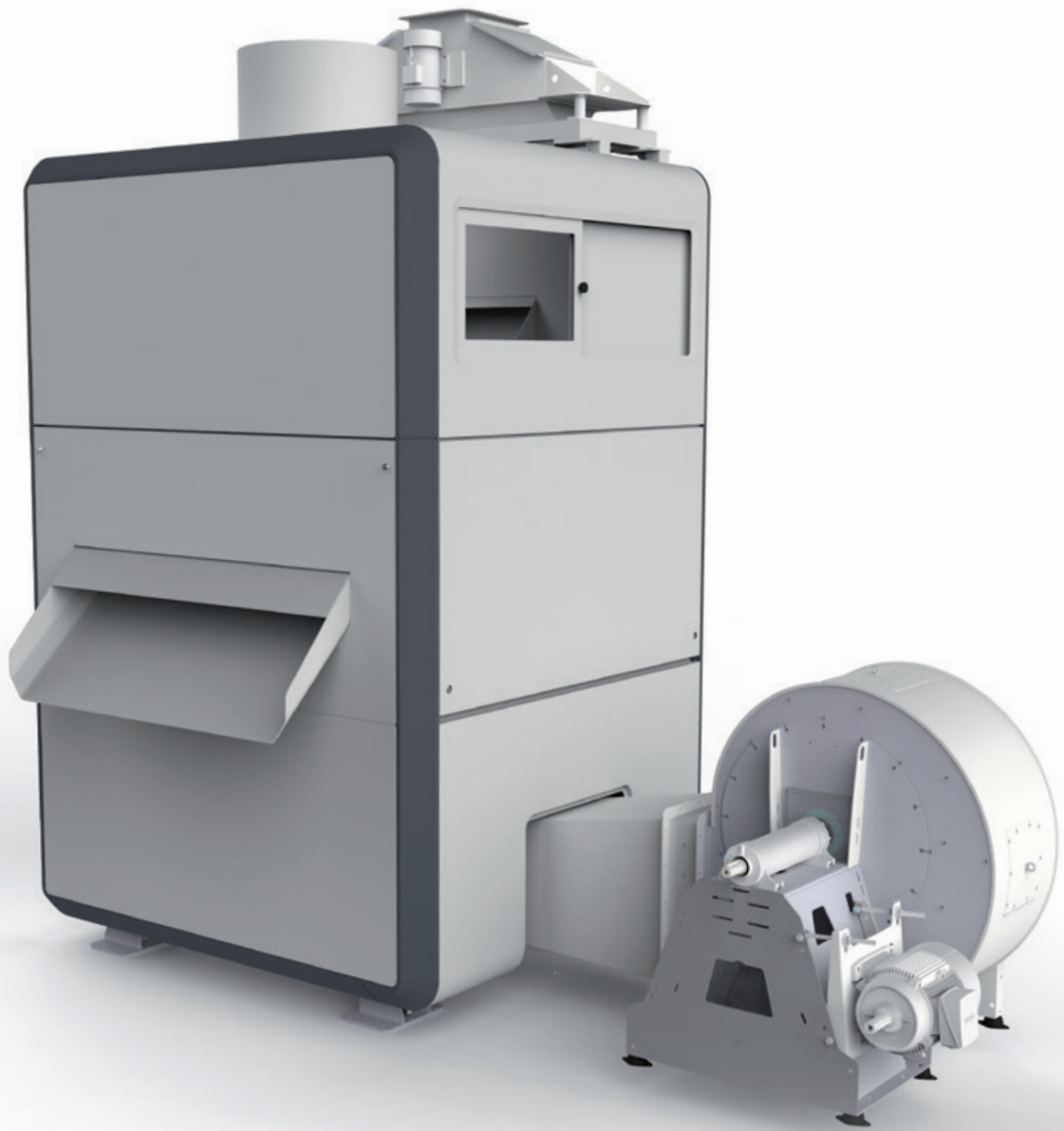


- Plastic recycling
- Building materials
- Fine metals
- Glass recycling
- Cable waste
- E-waste
- Slag

### MINING



- Baryte
- Coal
- Iron
- Lignite
- Tungsten
- Zirconium
- Ilmenite



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