



## WHY DEDUSTING PELLETS?

Quality right from the beginning

Fine dust is created during the granulation, transport or in-plant material supply of plastic pellets. These small particles can have a big impact on the final product. Premature combustion of the dust particles may occur in some cases, or the particles may not melt properly in the process. The consequences show up in white or black spots as well as deposited impurities. These quality losses inevitably lead to rejects.

Especially in the case of high-quality plastic products, the smallest component defects, such as flow lines or milky surfaces, can have serious consequences; this is particularly true for transparent products. Such defects, for example in plastic optics such as lenses or light guides, have a negative effect on the internal properties such as transmission and refraction and thus on the optical functionality of the product.

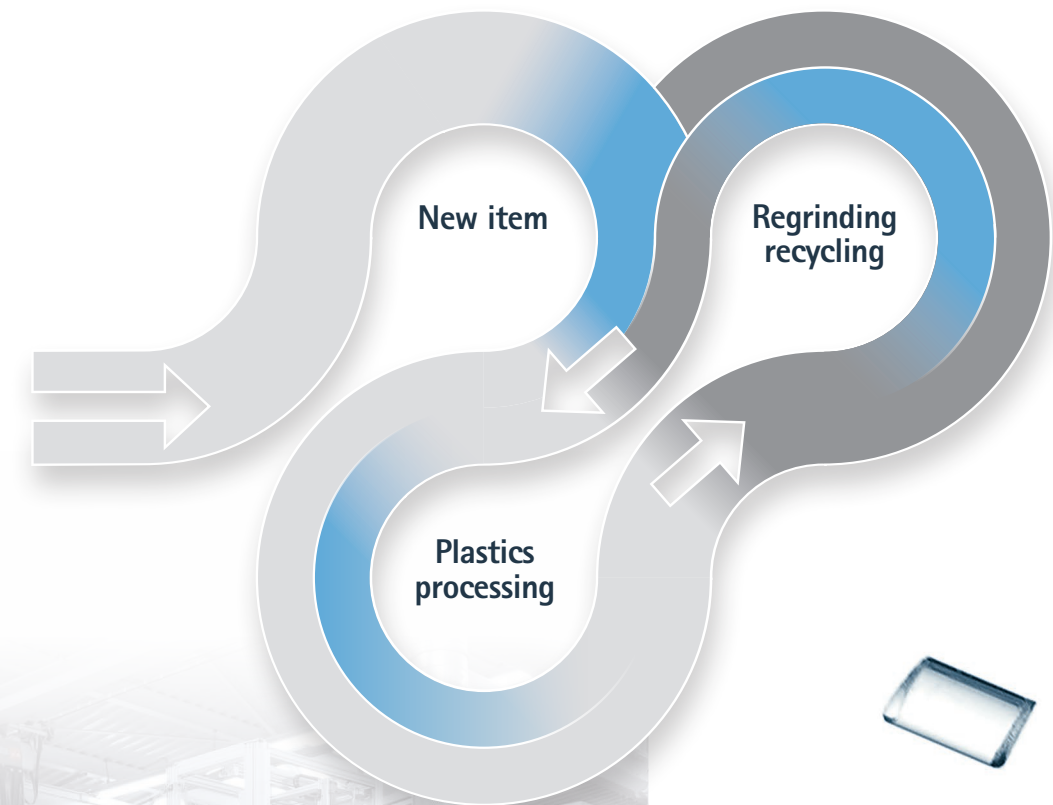
But these problems can be prevented. Excellent dedusting, as is possible with our pellet dedusters, produces plastic pellets of excellent quality to avoid production downtimes and high reject rates.

### ADVANTAGES AT ONE VIEW

- Scrap reduction
- Easy to implement in existing processes
- Improve the transport properties
- dust-free work environment

## PERFECTLY FLAWLESS

Dedusting of new item and regrind



### APPLICATION

The dedusting module can be operated directly on the feed zone of the injection moulding machine, on a dryer or metal separator as well as on an auxiliary device. There is nothing standing in the way of optimum production of especially high-quality visible and surface parts.

PELLET-DEDUSTER TS5

Dedusting on top of injection machines with a throughput up to 15kg/h

SMART

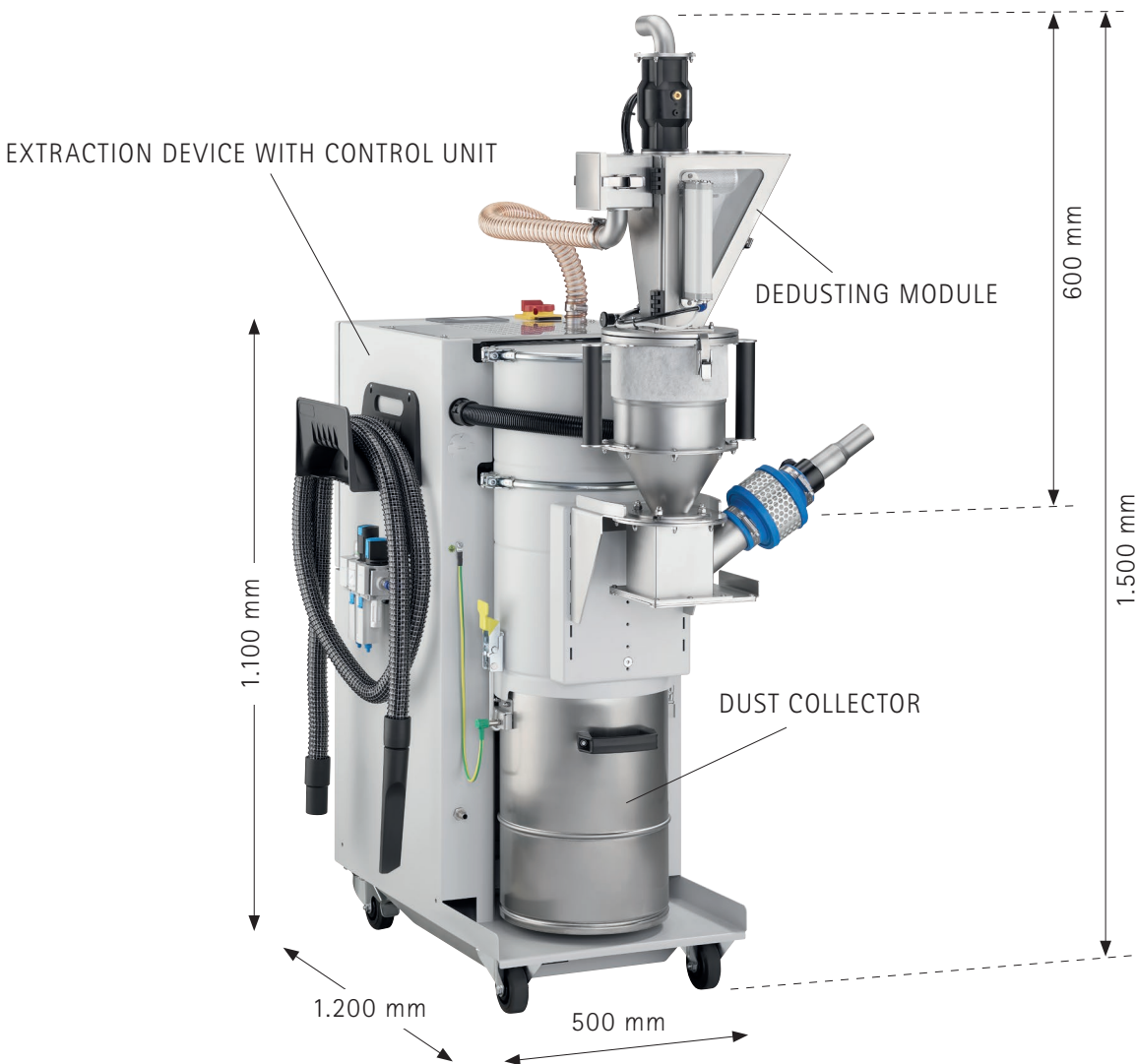
- Compact and space-saving design
- Stationary or mobile use
- Low maintenance due to integrated pneumatic filter cleaner
- Intuitive operation via HMI panel
- Volumetric dosing and mixing of two components

INDIVIDUAL

- Adaptation on injection-moulding machine, dryer or metal separator
- Can be combined with INOX silo with optional fill level monitoring
- Short delivery times due to in-house design and manufacture

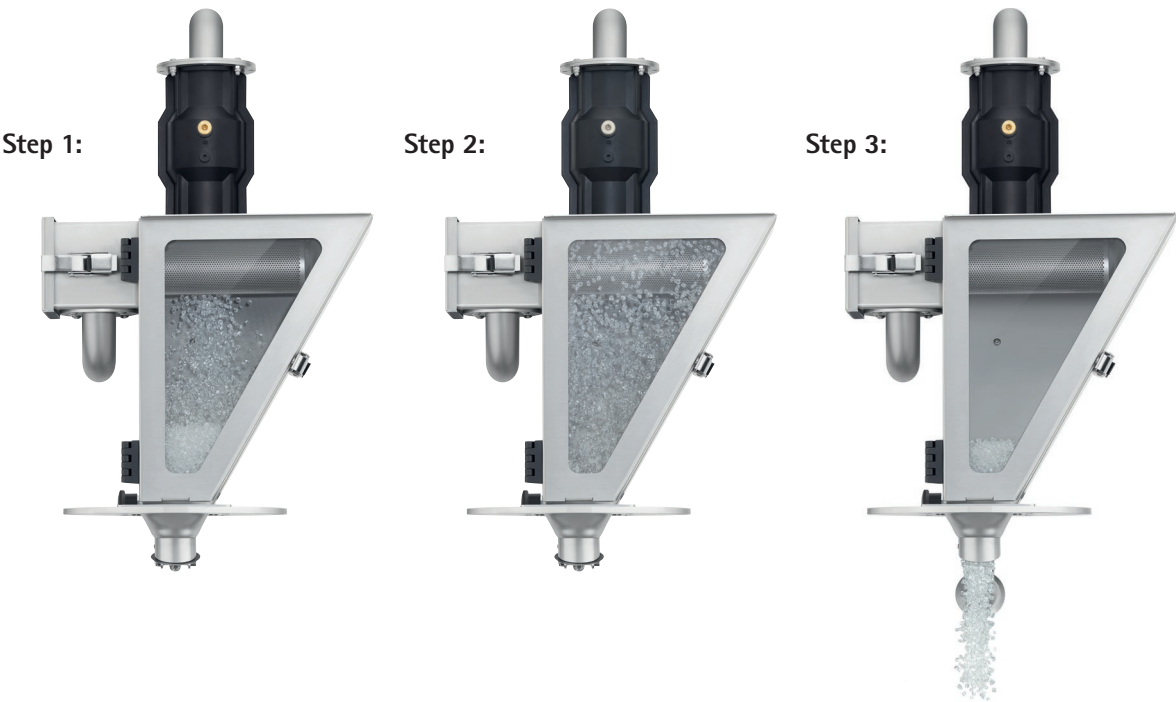
CLEAN

- Components that have contact with product are made of brushed stainless steel for easy, residue-free cleaning
- Negative pressure system with filtered ambient air
- Easy removal of dust collection container
- Integrated suction device for cleaning the entire machine



Functional Discription

- Step 1:** Pellets containing dust are sucked into the dedusting module by negative pressure.
- Step 2:** The ambient air flows through the pellets from below and creates a strong swirling effect. A filter screen on the top of the dust extraction module separates the dust particles from the plastic pellets. The dust particles are transported away by the extraction system and separated by a filter unit.
- Step 3:** The dedusted pellets are passed unpressurised on to the subsequent process.

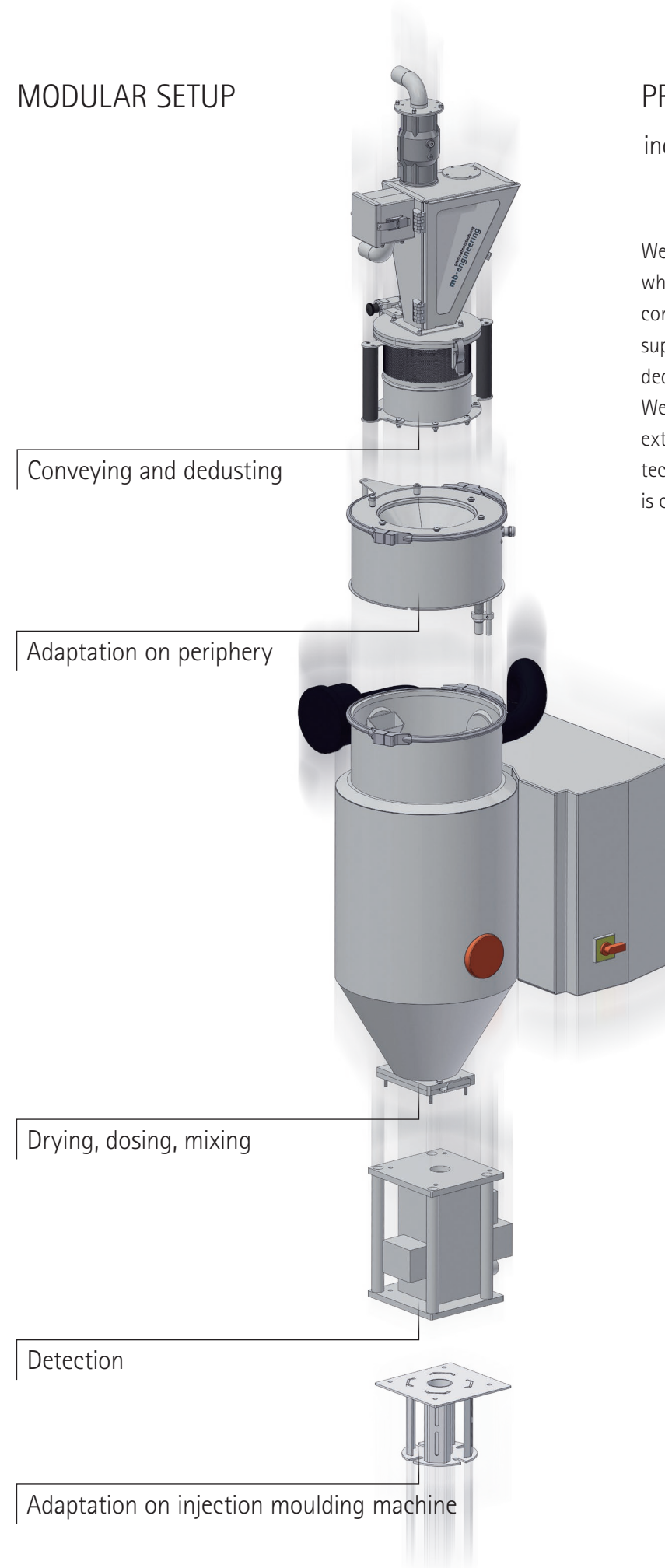


TECHNICAL DATA

Eigenschaft	Beschreibung	Einheit
Electrical input power	2,4	kW
Type of connection	IEC 60309 CEE 5 x 16A 6h 400V	-
Compressed air	6-8	bar
Main filter [DIN EN 60335-2-69]	M	-
Weight	135	kg
Dust collector volume	25	litres
Throughput	15	kg/h



## MODULAR SETUP



## PROJECT PLANNING

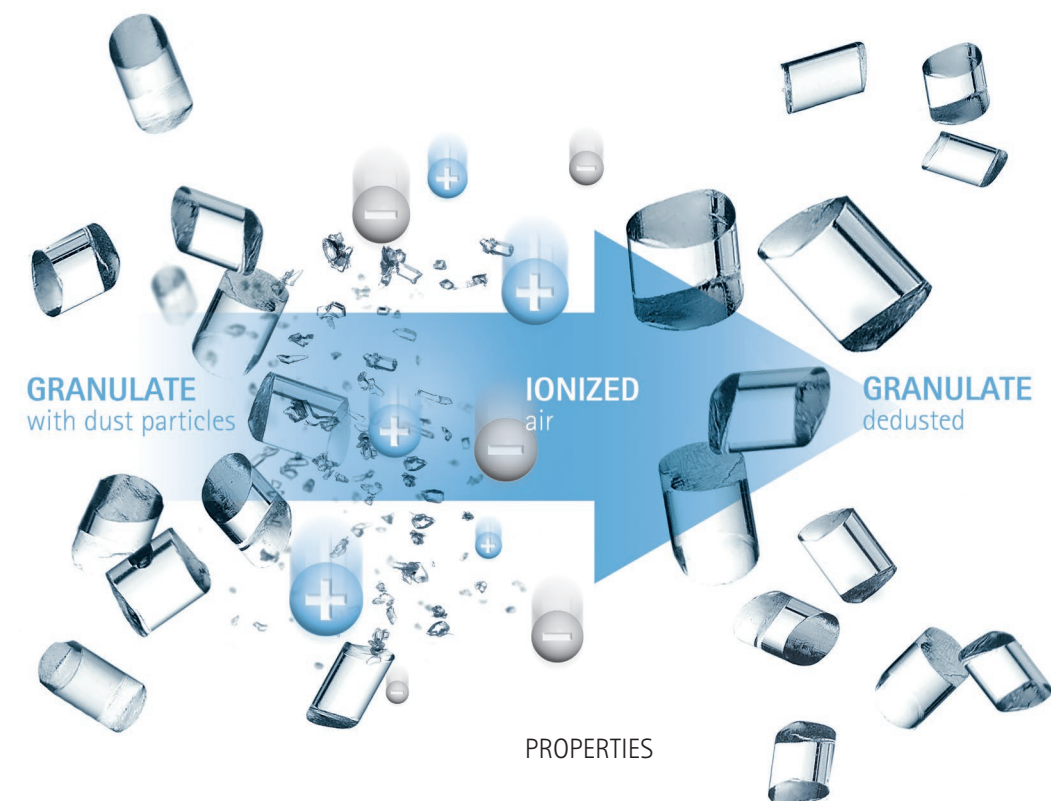
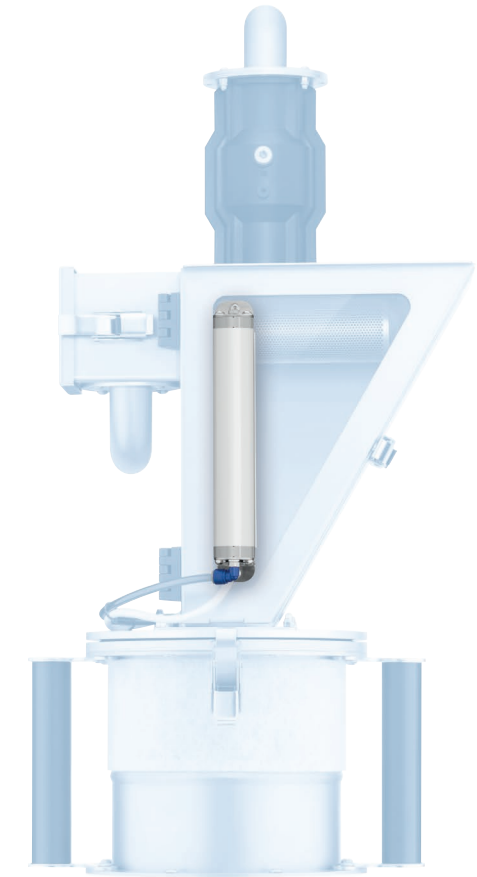
individually assembled

We will conceptualize and plan your individual tender, which will meet your requirements and expectations completely and optimally. An integrated material supply includes conveying, dosing and mixing, dedusting, metal-detecting, drying, as well as storing. We offer you integrated control technology, an extensive partner network, as well as professional technical documentation. We make sure the workflow is coordinated during the design and planning stages.

## ACCESSORIES

Ionisation

First-class dedusting of plastic granulates with the ionizer. Due to static binding forces, especially small particles adhere to the granulate grains, which can have a negative effect on the quality of the granulate and therefore on the end product. Our solution is the ionizer. The ionization module generates a corona discharge, which causes the dust particles to lose their adhesion, so they can be easily detached from the grain. In addition to the elimination of electrostatic discharges and the thereby improved dedusting quality, the throughput can also be increased and the demixing effects reduced.



### PROPERTIES

- Dual AC version for an even and quick reduction of the electronic charge
- Wear-proof tungsten electrode cartridges
- Visual display of the ion equilibrium

