

PALLMANN

Pulverizing Systems for Masterbatch Production PMM



Pulverizing Systems for Masterbatch Production

Areas of Application

With the PolyGrinder[®], type PMM, high quality powders are produced for masterbatch production and compounding. The optimum particle size of the end powder guarantees good mixture and good adhesion of the additives.

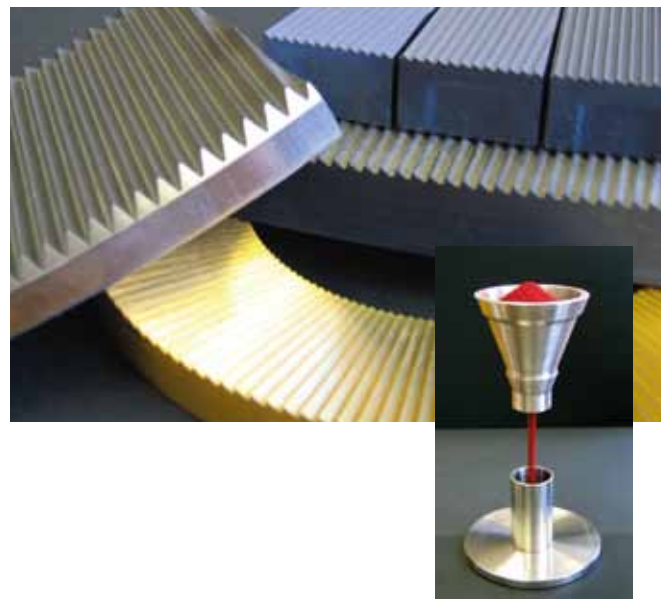
A wide spectrum of materials such as PE, PP, PA, PC etc. can be pulverized at ambient temperature.



Method of Operation

A feeding system feeds the granules into the PolyGrinder[®], type PMM. Pulverizing is effected between the serrated grinding elements of a rotating and stationary grinding disc. The downstream fan vacuums the powder from the Disc Mill and conveys it, over a short distance, to the cyclone. The finished product is discharged through a rotary air lock into a bin or bag. A filter (optional) cleans the discharged air.

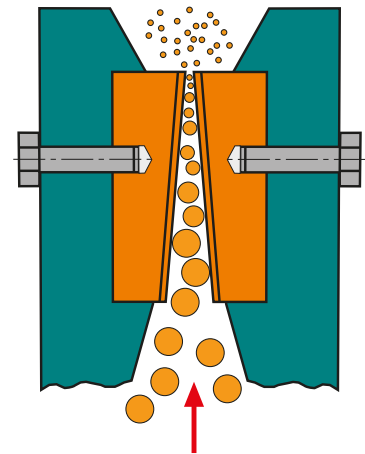
The entire system is fully automatic and controlled from a control cabinet. The system has been designed in such a way that the mill, the piping and the cyclone are installed at a comfortable working height and can be easily cleaned.



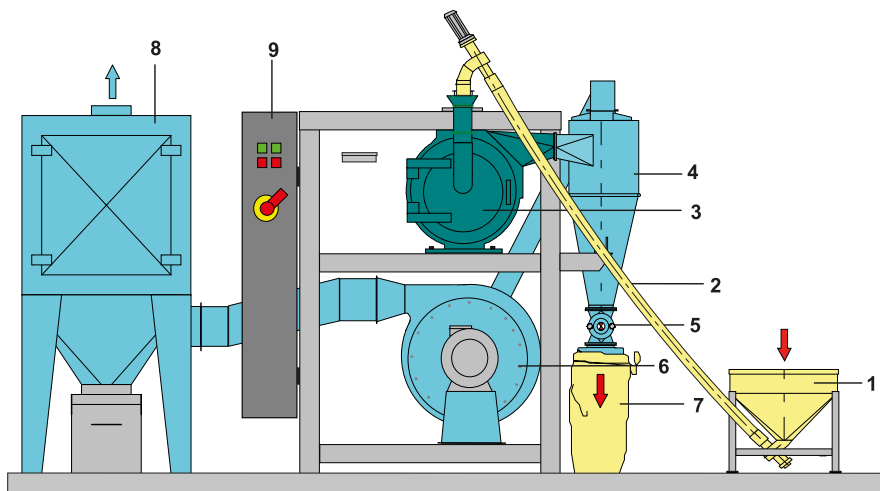
Design

The PALLMANN PolyGrinder[®], type PMM is robust and suitable for continuous operation. The patented design with eccentrically positioned grinding discs avoids material adhesion in the housing.

A bearing with virtually zero play allows the precise setting of the grinding gap by means of a central gap setting device. Easy access to the mill and the key segment exchange without disassembly of the rotor guarantee a minimum of downtime between material or color changes.



- Pulverization at ambient temperature
- Excellent powder characteristics
- Large specific surface area, good flow rate and mixing possibility
- Smooth interior of the mill housing without any dead corners
- Quick and easy cleaning when changing material or colors
- High throughput rate at favorable specific power consumption
- Compact design with minimum space requirement



1. Storage bin
2. Feeding device
3. PolyGrinder[®]
4. Cyclone
5. Rotary airlock
6. Fan
7. Sacking station
8. Filter (optional)
9. Control cabinet

Technical data:

Type	PolyGrinder [®]	PMM 300	PMM 500
Diameter of grinding chamber	mm	300	500
Main motor	kW	30-37	45-55
Throughput rate*	kg/h	450-650	750-1200
Dimensions (Installation without Filter)	Length	mm	1500
	Depth	mm	1000
	height	mm	3100

* Throughput rate heavily depends on feed material and desired particle size



The PALLMANN Group of Companies

The Pallmann Group of companies is the leading manufacturer for size reduction machines and systems for the plastic and recycling industry.

Pallmann Maschinenfabrik develops and manufactures machines and complete systems according to customer requirements or as standard solutions for the preparation of almost any plastics as well as recycling products. In its headquarters in Zweibrücken, Pallmann operates one of the world's largest research and technology centers as well as a training- and service center. More than 130 different test machines are available for the preparation of a wide variety of materials. A downstream laboratory analysis of the test material as well as the preparation on a production scale is possible. In addition to the manufacturing facilities in Europe, North- and South America, the Pallmann Group of companies operates a worldwide spare parts- and service network.



The PALLMANN Program

Engineering and Service:

Design and manufacturing
Research and development
Production scale testing
Laboratory analysis
Worldwide service
Spare parts
Controlling
Process Control
Installation & Start-up
Overhaul & Repair

Products:

Agglomerators
Pulverizing Systems
Disc Mills
Turbo Mills
Pin Mills
Laboratory Mills
Classifier Mills
Universal Mills
Complete Grinding Systems
Knife Mills
Profile Shredders
Rubber Granulators
Pipe Crusher
Air-Swept Mills
Impact Mills
Industrial Granulators
Cryogenic Grinding Systems

System solutions for:

Pulverizing
Granulating
Agglomerating
Recycling

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