

# PALLMANN

Pulverizing Systems for Masterbatch Production PMM



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## Areas of Application

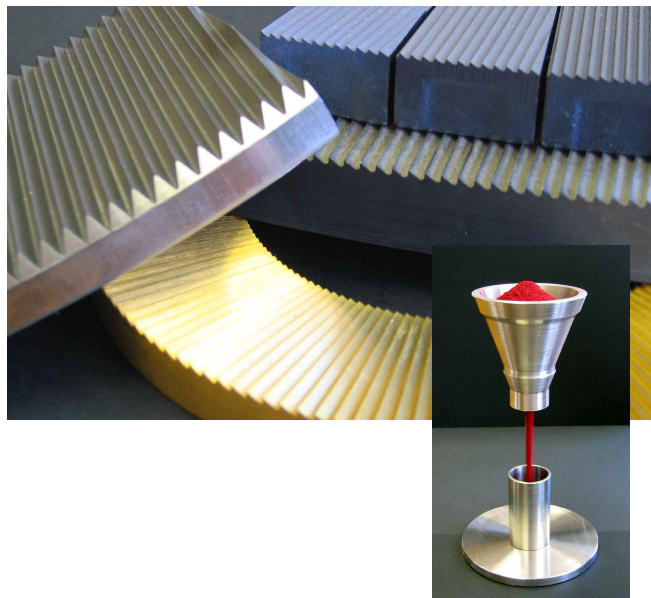
With the PolyGrinder<sup>®</sup>, type PMM, high quality powders are produced for masterbatch production and compounding. The optimum particle size of the end powder guarantees good mixture and good adhesion of the additives.

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<sup>®</sup>, 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.

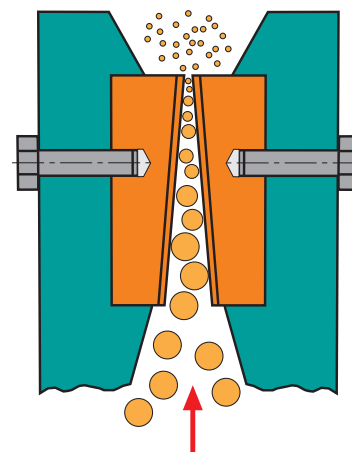
The entire system is fully automatic and controlled from a control cabinet. The system has been designed in such a way that the mill, the piping and the cyclone are installed at a comfortable working height and can be easily cleaned.



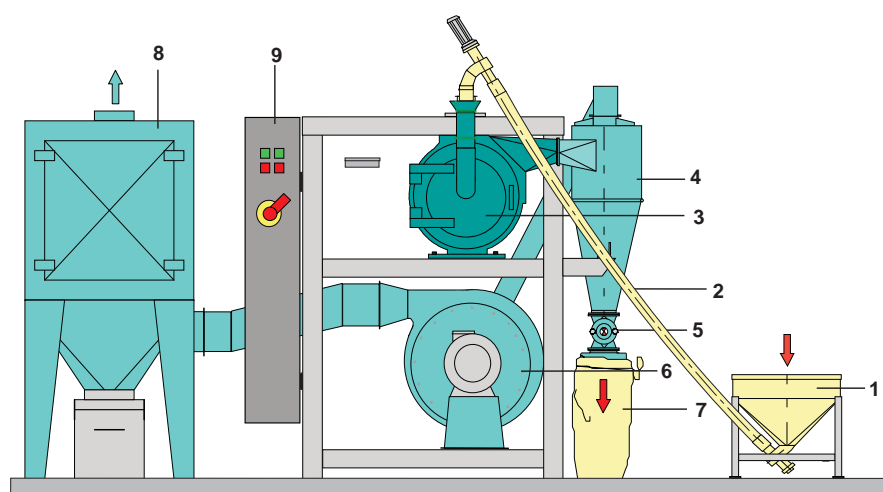
## Design

The PALLMANN PolyGrinder<sup>®</sup>, 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<sup>®</sup>
4. Cyclone
5. Rotary airlock
6. Fan
7. Sacking station
8. Filter (optional)
9. Control cabinet

## Technical data:

Type	PolyGrinder <sup>®</sup>	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	1800
	Depth	mm	1100
	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 plastic 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.



### 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

### System solutions for:

Pulverizing  
Granulating  
Agglomerating  
Recycling

### Products:

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

PALLMANN Pulverizers Co. Inc.  
820 Bloomfield Ave.  
Clifton NJ 07012  
USA  
Phone +1 973 471 1450  
Fax +1 973 471 7152  
E-mail: [info@pallmannpulverizers.com](mailto:info@pallmannpulverizers.com)  
<http://www.pallmannpulverizers.com>

PALLMANN do Brasil Ind. e Com Ltda.  
Av. Presidente Juscelino, 11 56  
09950-370 Diadema S.P.  
Brasil  
Phone +55 11 745 3044  
Fax +55 11 745 4968  
E-mail: [pallmann@pallmann.com.br](mailto:pallmann@pallmann.com.br)  
<http://www.pallmann.com.br>

PALLMANN Moskau Office  
Leninskij prospekt dom 158  
Office Nr. 206  
119571 Moskau  
Russland  
Phone 007 495 232 15 21  
Fax 007 495 232 15 22  
E-mail: [info-ru@pallmann.de](mailto:info-ru@pallmann.de)

PALLMANN Beijing Representative Office  
Room 907, 9th Floor, of Tower B  
West Wing of COFCO Plaza  
No.8, Jianguomennei Dajie, Dongcheng District  
100 005 Beijing, China  
Phone +86 10 8511 8668 26  
Fax +86 10 8511 8668 25  
E-mail: [info@pallmann.com.cn](mailto:info@pallmann.com.cn)

PALLMANN Maschinenfabrik GmbH & Co.KG  
Wolfslochstraße 51  
66482 Zweibrücken  
Germany  
Phone +49 6332 802 0  
Fax +49 6332 802 521  
E-mail: [plast@pallmann.eu](mailto:plast@pallmann.eu)  
<http://www.pallmann.eu>