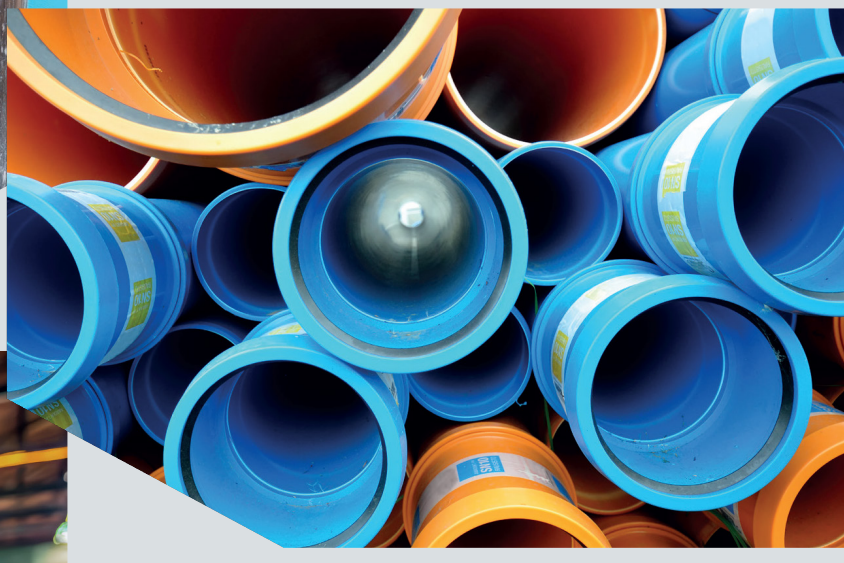
SIEMPELKAMP
SIZE REDUCTION

Intelligent engineering
for future generations.

PULVERIZING

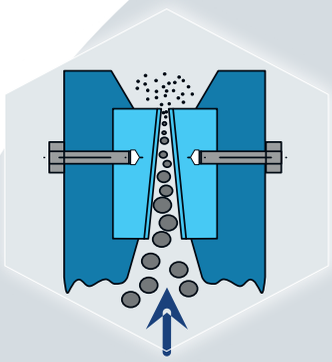
Pulverizing for Quality Powder



ROTOMOLDING WITH OUR MACHINES

POLYGRINDER TYPE PKM

Our PolyGrinder is suitable for continuous operation (24/7).
Vertical material discharge prevents clogging of the material in the housing. High precision bearing allows the precise setting of the grinding gap. Easy access to the mill housing and the simple key segment exchange without disassembly of the rotor guarantee a minimum of downtime. Due to a selection of various key segments, the PolyGrinder allows the processing of many different materials.



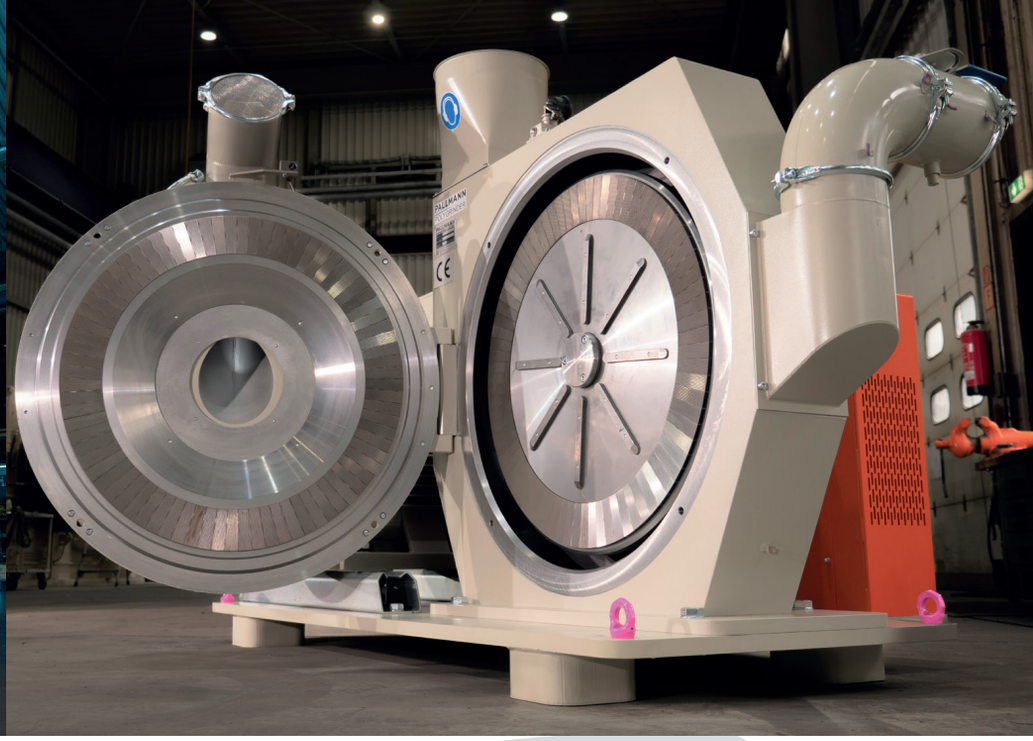
CONSTRUCTION

- Grinding path made of wear-resistant, technically optimized key segments
- Precise central grinding gap setting
- Housing developed for optimum air cooling and easy access for cleaning and key segment exchange
- Broad field of application due to easily exchangeable key segments

ADVANTAGES

1. Flowability
Good flowability is a prerequisite to achieve an optimum distribution of the material within the mould.
2. Bulk density
Bulk density and flowability depend on each other. The bulk density of a quality powder with a spherical particle shape is > 350g/l.
3. Proportion of fines
Quality powders characterize themselves through narrow particle size distribution. To guarantee that the material distribution is uniform even in complicated moulds, 80 -90% of the powder should have a particle size between 0.15 - 0.5 mm.

TYPE PKM			300	600	800
Grinding chamber diameter		mm	300	600	800
Motor, main drive		kW	37	75- 110	90 - 132
Throughput capacity		kg/h	150 - 200	450 - 650	750 - 1000
Total system capacity		kW	42	92 - 125	107 - 155
Space requirement (full system)	Width	mm	2270	3100	4000
	Depth	mm	2600	2800	4100
	Height	mm	5150	5100	7300



PROVEN GRINDING SYSTEMS FOR MASTERBATCH OPERATIONS

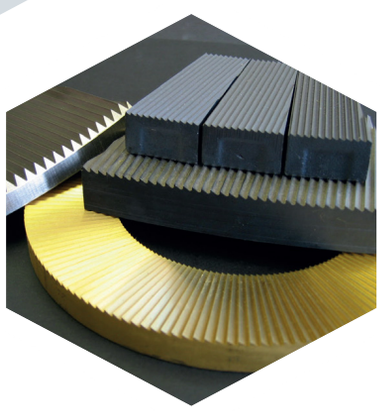
POLYGRINDER TYPE PM

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

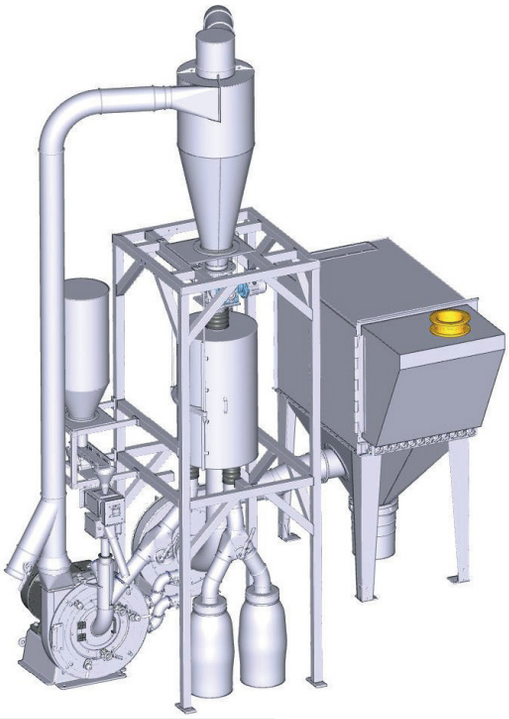
A wide spectrum of materials such as PE, PP, PA, PC etc. can be pulverized at ambient temperature.

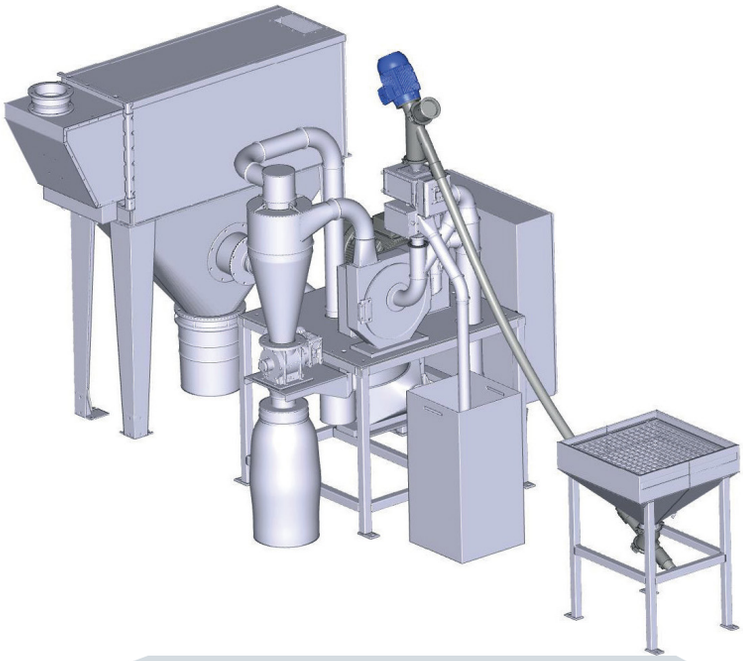
The PolyGrinder, type PM is robust and suitable for continuous operation. The patented design with eccentrically positioned grinding discs avoids material adhesion in the housing. High precision bearings allow the precise setting of the grinding gap. The entire system is controlled fully automatically.

The system is designed in such a way that the pulverizer itself, the piping and the cyclone are installed at a comfortable working height and can be quickly and easily cleaned.



TYPE PM			300	600
Grinding chamber diameter		**mm**	300	600
Motor, main drive		**kW**	30 - 37	55 - 75
Throughput capacity		**kg/h**	50 - 300	325 - 940
Space requirement (full system)	**Width**	**mm**	2270	3100
	Depth	**mm**	2600	2800
	Height	**mm**	5150	5100





EXPERIENCE THE DIFFERENCE BETWEEN FINE GRINDING AND GRINDING FINE

Profitable pulverizing of thermoplastic material at ambient temperature is a job for experts. Different applications require special powder qualities with determined particle size distribution. The quality of powder flowability for rotomoulding for example, is specified in the German standard DIN 53492 and in the US-standard ASTM D 1895.

SOME ADVANTAGES OF OUR SYSTEM

- Quality powders with excellent flowability, high bulk density and uniform particle size distribution
- Optimum material distribution even in complicated moulds
- Material- and weight savings due to uniform wall thickness during the production of rotational moulded parts
- Short mould filling times with a low dust level
- Homogeneous material mixing of coloured powder
- Easy and economical in-house pulverizing
- Internal control of powder quality and quantity
- Smooth product surface due to optimum particle size distribution
- Energy efficient powder production
- Versatility
- Fully auto-temp.

PALLMANN
MASCHINENFABRIK
HAS EVOLVED

INTO

SIEMPELKAMP
SIZE REDUCTION

NEW NAME. PROVEN STRENGTH.

ANY QUESTIONS?
WE'VE GOT ANSWERS

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