Pulverizer ZM

NEUE HERBOLD Maschinen und Anlagenbau GmbH .com

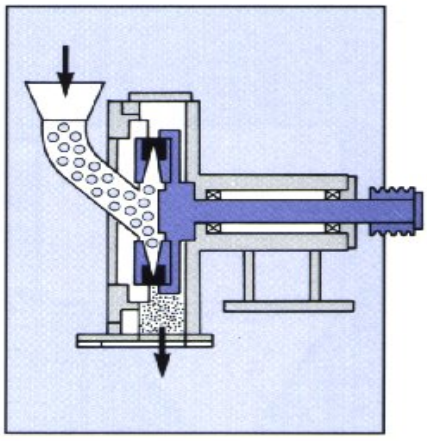
Pulverizers of the **ZM** series are high speed fine grinding machines for pulverizing semi-rigid, impact resistant and brittle materials.

A typical application is the fine size reduction of PVC, PE, PC and other types of plastic.

Example materials that could be size reduced through a **NEUE HERBOLD PULVERIZER**:

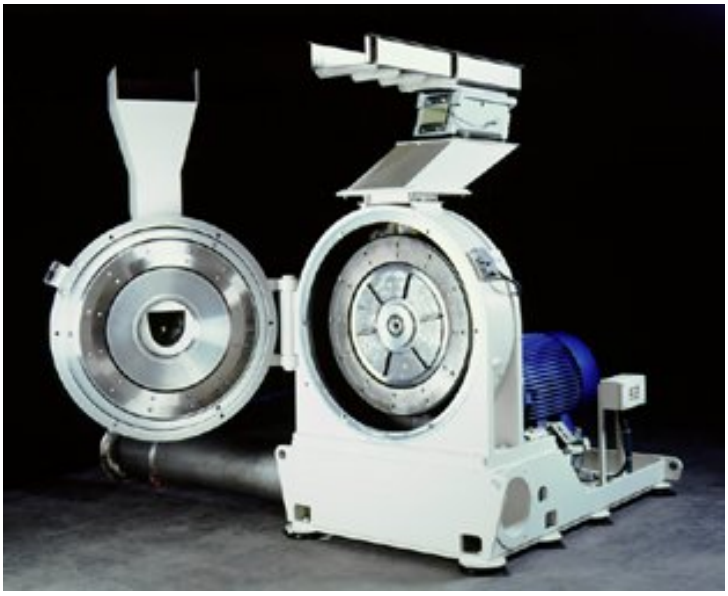
- **Extruded pipe and profile granulate**
- **Pre-reduced sheets and edge trim**
- **Rigid film**
- **Amorphous and brittle products from the following sectors:**
  - **food industry**
  - **chemical industry**
  - **pharmaceutical industry**

The material to be reduced is fed centrally through the stationary disc where it is spun off by centrifugal force and pulverized between the grinding discs before being discharged through a suction unit.



The most important advantages:

- **short material residence time in the grinding chamber**
- **wear parts are easy to replace to include simplified disc gap adjustment from outside the machine**
- **cost effective, high performance unit**
- **minimal thermal degradation of material one piece discs**



The small cross section of the grinding chamber and the flat almost vertically mounted grinding discs are characteristic advantages of these units.

This ensures that the material is gripped and reduced immediately upon entering the grinding chamber and eliminates any unnecessary residence time which would involve temperature increase.
A grooved disc rotates at high speed parallel to a fixed impact disc.

New specially designed high speed bearings and housing eliminate the necessity for twin motor drives.

The high speed of the disc and the extremely effective impact reduction process ensure, that
high throughputs can be achieved with a minimum of drive power.

This simplifies the mechanics and the controls of the unit and reduces the maintenance work that would otherwise be necessary.

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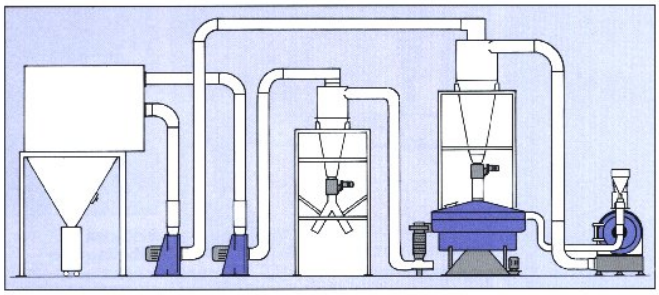
Adjustment of the grinding discs

The fineness of the material is dependant upon the design of the grinding tools, the disc running speed and the gap between the two discs.

The grinding gap is adjusted from outside of the closed unit by using the adjustment screws and the feeler gauge.

This allows easy adjustment which enables the unit to be used for a variety of applications.

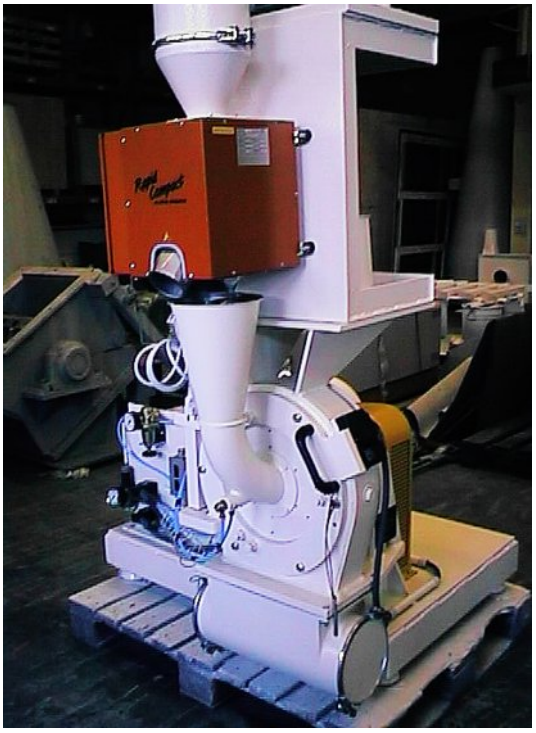


Example of a pulverizer system with screening machine

Performance examples

Material	Rate ZM 300	Rate ZM 500	Rate ZM 800
H-PVC-Profile Granulate	ca. 200 kg/h (440 LBS/h) ca. 100 % < 600 my with Screening	ca. 400 kg/h (880 LBS/H) ca. 100 % < 600 my with Screening	ca. 800 kg/h (1700 LBS/h) ca. 100 % < 600 my with Screening
H-PVC-Pipe-Granulate	ca. 250 kg/h (550 LBS/h) ca. 96 % < 800 my	ca. 450 kg/h (1000 LBS/h) ca. 96 % < 800 my	ca. 900 kg/h (1900 LBS/h) ca. 96 % < 800 my
LDPE (MFI 70)	ca. 120 kg/h (260 LBS/h) ca. 94 % < 500 my	ca. 250 kg/h (550 LBS/h) ca. 94 % < 500 my	ca. 400 kg/h (880 LBS/h) ca. 94 % < 500 my

We would be pleased to perform a scheduled test with your material in our test facility.



Grinding discs

The **ZM** series pulverizers are equipped with single piece high alloy special steel grinding discs.
The single disc design reduces the costs for wear parts and ensures quick replacement without complicated alignment or the need to dismantle other parts of the machine.

Depending upon the application, grinding discs with different teeth ratio surfaces are available.
We also offer our grinding discs in wear resistant form for special applications.

Note:
Grinding discs can be re-sharpened. The re-sharpening intervals depend on the degree of wear.

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