



PM

PULVERIZER

PM-SERIES

The PM series high speed precision pulverizer are primarily used for the fine grinding of regrind or virgin material for pipe, profile or sheet extrusion as well as rotomolding.



The regranulated material (or virgin material), which is pre-cut to approx. 6 mm, is fed via a pneumatic dosing unit and pulverized between the stationary and rotating disc. The output material is between 0 and 1000 microns.

Due to the centrifugal force in combination with a material transport blower, the material is transported to the downstream equipment such as screening machines or plansifters.

With optional screening machines, it is possible to define the maximum upper limit of the final fineness. The adjustable distance between the pulverizing discs and the use of segments with different corrugations also influence the quality of the ground material.

Discs with diameters of 300, 500 and 800 mm are available.

An automatic cooling system permanently controls the temperature of the material during the grinding process to prevent thermal damage. The maximum temperature of the material and the amount of water required for cooling are preset.



PM-SERIES

PM	300	500	800
Disc diameter (mm)	300	500	800
Drive (kW)	22	55	90
Weight (kg)	800	1800	2500
Pulverizer segments option	-	+	+
Stator disk cooling	+	+	+
Water injection	+	+	+





Pneumatic dosing vibro feeder

The material is fed via a pneumatic dosing chute, which is controlled both by the power consumption of the drive motor and the temperature control system.



Automatic cooling system

The temperature of the ground material is measured at the outlet of the grinder. If the preset maximum temperature is exceeded, water is vaporized directly into the grinding chamber. In most cases, the temperature of the material drops. If the desired effect is not achieved, the pneumatic dosing chute stops the feed.



Control valve dosing chute

The speed of the dosing channel is set on the left-hand control valve.



Control valve flow cooling

The control valve regulates the through-flow cooling of the stator disc.



Water injection control valve

The right-hand control valve regulates the pressure of the water injection. The flow meter next to it can be used to set the amount of water to be supplied.



Grinding discs

The PM 300 model is equipped with one-piece disks. The PM 500 and 800 models can be equipped with one-piece disks or optionally with segments. Segments are available with different corrugations.



Front door

If required, a water flow cooling system can be connected to the front door for the stator disc (= bottom connection). The upper connection is used for water injection between the grinding discs.



OPTION

Rotomoulding in particular is subject to upper limits with regard to the quality of the regrind. To achieve a max. final fineness 100 % of, for example 0,63 mm, the use of a screening machine is required. The fines that are larger than the upper limit is returned to the fine mill for a further grinding process. The return is carried out pneumatically or (usually) via a screw conveyor.



OPTION

To protect the sensitive surface of the grinding disks we recommend the use of an upstream all-metal separator. It reliably separates metallic impurities.



Setting the distance between grinding discs

The distance between the stationary and rotating disk is set or checked using a long feeler gauge over 4 control points.



Permanent lubrication

Two cartridges filled with grease supply the bearing unit of the sensitive, high-speed drive shaft with permanent lubrication.

OUR SERVICES

We offer comprehensive spare parts, repair and maintenance service.

SERVICE

Our qualified specialists draw upon many years of experience in handling various types of machines. We repair and maintain machines from all major manufacturers.



SPARE PARTS, REPAIR AND MAINTENANCE

AMIS supplies spare parts and wearing parts for all makes and offers overhaul, repair and maintenance work, if possible even on site.

OPTIMIZATION

Customer specific adaptations include, for example, special hoppers, zig-zag separators, roll feeders, noise protection housing, forced feeding via force feeding screws and much more.

WE PURCHASE YOUR MACHINE

We buy used granulators, pulverizers and shredders by all common manufacturers.



TECHNICAL CENTER

Our in-house test center enables you to experience the quality of our machines and accurately simulate your process requirements.

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