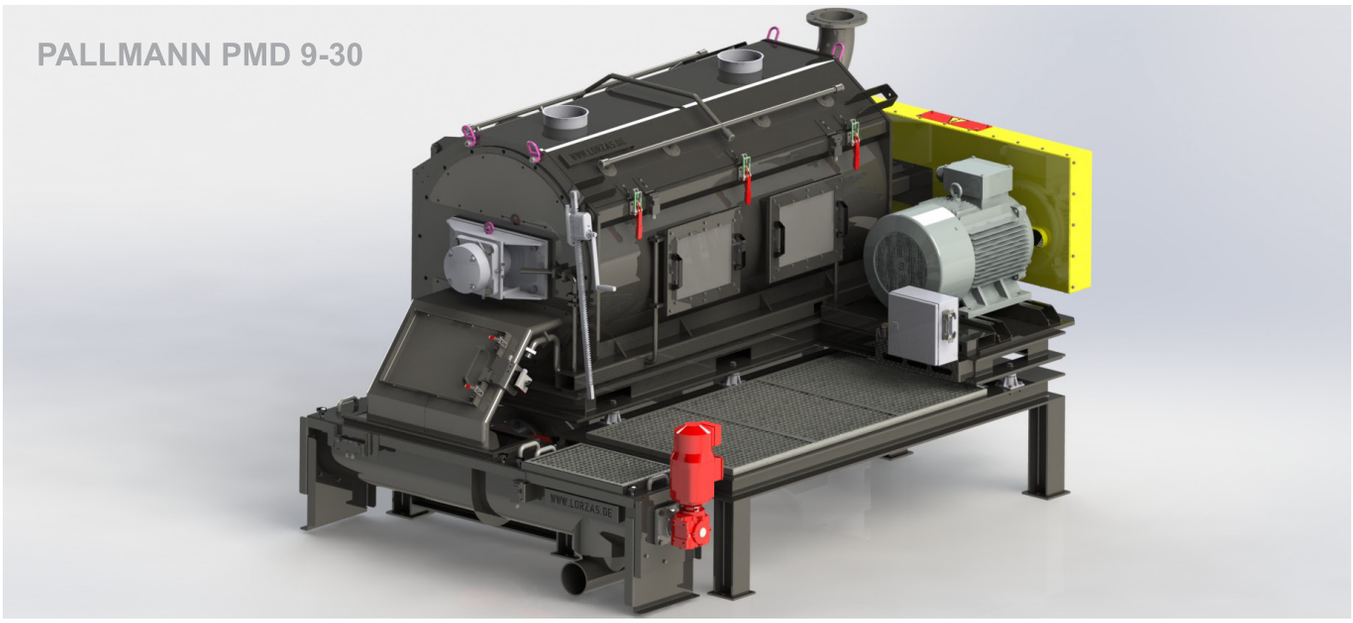
PALLMANN Mechanical Dryer PMD 9-30

Dewatering and drying of thin-walled plastic particles

Areas of application

The PALLMANN Dryer, type PMD 9-30 is used for dewatering thin-walled plastic particles with a particle size between 6 and 30 mm. If the product has been dewatered, the machine can be used as a mechanical dryer and as a frictional washer when impacted with larger amounts of water.



Method of operation

The mixture of plastic particles and water is introduced into the working chamber of the machine via an inlet connection tangentially arranged to the running direction of the rotor. The tangential arrangement of the inlet connection reduces the acceleration work and thereby lowers the wear of the exchangeable rotor wings (VA). The screen basket is polygonally arranged whereby the plastic particles are turned around.

Debris and abraded particles are spun out of the screening chamber with the washing water and leave the machine housing via a longitudinal flange installed at the bottom. In case of viscous sludge, a discharge screw can be installed at that position, as an option. During operation with a liquid content it is possible to inject water.

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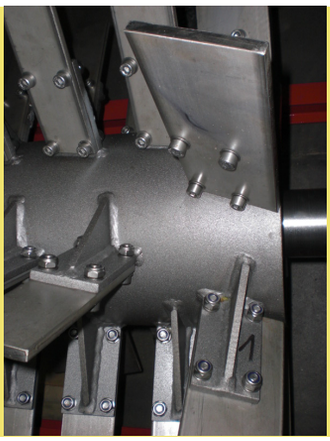
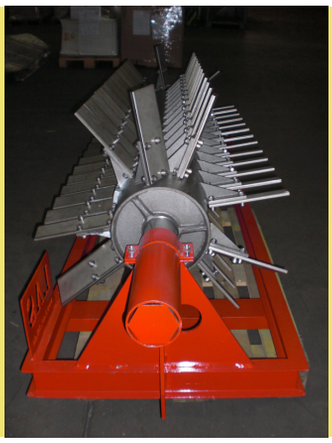
Construction

The machine cover is kept closed via fast-closing clamps and can be opened when the rotor is at a standstill. This allows for faster access for cleaning the machine housing and to the exchangeable screen and rotor wings.

The dewatered plastic particles leave the screened machine chamber via a discharge chute which is equipped with an inspection cover. As an option, a lateral discharge screw can be supplied which allows for heated pressure conveying directly into the thermal dryer.

Fixed- and floating bearings as well as the drive motor of the machine are temperature monitored whereby an alarm is triggered and a delayed machine standstill can be caused.
A vibration monitor is installed at the housing of the machine. A permissible spectrum of bearing and operational vibration is programmed in the electronic evaluation system. If the programmed value is permanently exceeded, an alarm is triggered and a machine standstill is caused.
The rotor speed can be optionally controlled by means of frequency converters.





The throughput rates of the machines vary from approximately 500 kg/h for film and up to 2.500 kg/h for thick-walled rigid plastics (i.e. bottle cases regrind)

Mechanical Dryer PMD 9-30

Drive	kW	55/75
Weight	kg	3500
Dimensions L x W x H	mm	3400 x 2300 x 2300

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