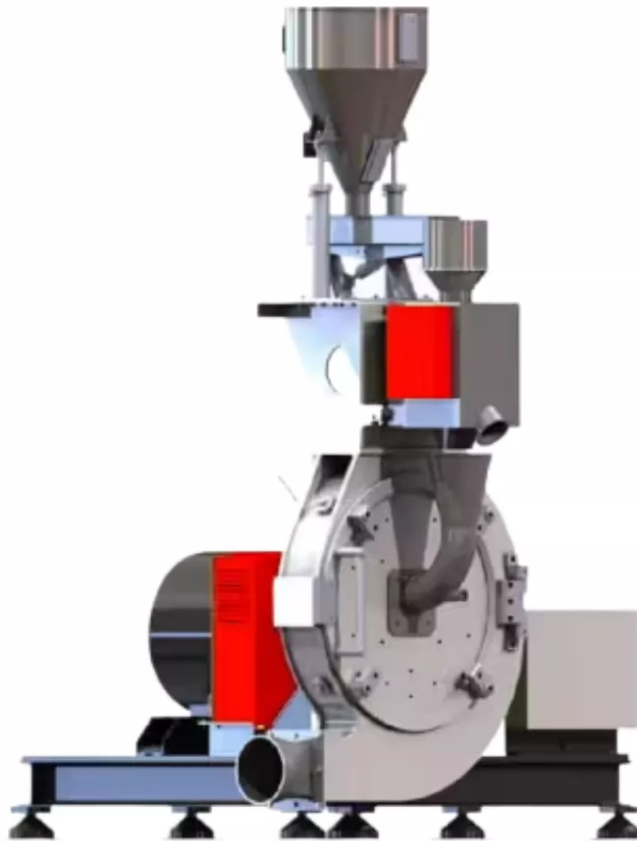




PVC PULVERIZER MACHINE FOR PLASTIC RECYCLING TT-PM500

This PVC Pulverizer Machine for Plastic Recycling TT-PM500 for Plastic Recycling is ideal for processing semi-rigid, brittle, and impact-resistant materials, creating powdered products.

Particles sized between 6 and 8 mm pass through a vibrating screen, entering a high-speed rotating sawtooth disc. This process yields a powder within the targeted 300-1000 micron range, with the final size adjusted by the disc spacing. Commonly used for shredding LDPE, HDPE, UPVC, PC, and various other plastic types.

APPLICATIONS

- **PVC Profile & Pipe Recycling:** Pulverizes H-PVC profiles and pipes into fine powders.
- **Plastic Recycling Plants:** Processes semi-rigid, brittle, and impact-resistant plastics.
- **Powder Production:** Produces 300–1000 micron powders from 6–8 mm particles.
- **Material Reuse:** Recycles LDPE, HDPE, UPVC, PC, and similar plastics.
- **Compounding & Masterbatch:** Supplies powders for blending in compounding applications.
- **Film, Sheet & Pipe Manufacturing:** Provides consistent powder feedstock for extrusion processes.
- **Injection & Rotomolding:** Supports molding applications requiring uniform fine powders.

FEATURES

TT-PM500 PVC Pulverizer Machine for Plastic Recycling

Applications

The TT-PM500 PVC Pulverizer Machine is built for pulverizing semi-rigid, brittle, and impact-resistant plastics into fine powders. Particles sized 6–8 mm are passed through a vibrating screen into a high-speed rotating sawtooth disc, producing powders in the range of 300–1000 microns. Final particle size is controlled by adjusting the disc spacing.

Commonly used for processing:

- LDPE
- HDPE
- UPVC
- PC
- Other plastic types

Design

This ultra-high-output pulverizer can be equipped with automatic temperature control. Material is centrally fed between stationary and high-speed rotating discs, generating a centrifugal effect that moves material through the processing zone before pneumatic discharge.

Advantages

- Extended disc lifespan between regrinds
- Quick and easy disc replacement and adjustment
- Short residence time reduces thermal stress
- High throughput capacity
- Cost-effective operation

Technical Features

- Dosing channel / vibratory feeder

- Channel width: 100–250 mm
- Storage container capacity: 50–100 liters
- Feeding regulated by high-current controller monitoring the pulverizer motor
- Mounted with integrated bracket and control device

Pulverizer Housing

- Fixed and high-speed toothed discs with precision bearings
- Material enters through the central opening of the fixed disc
- Particle size determined by disc teeth and adjustable clearance
- Clearance checked via inspection hole; adjusted externally with feeler gauge
- Operates without a screen
- Welded steel housing with fracture resistance and hinged door for cleaning/replacement
- Compact grinding chamber with nearly vertical disc for immediate clamping and reduction

Pulverizer Discs

- Specially designed for high-speed peripheral operation
- Efficient impact reduction with low energy demand
- Disc diameter: 500 mm

Temperature Control

Automated cooling system includes a water-spraying nozzle, control devices, solenoid valves, thermostats, automatic control unit, and feeding switch to maintain stable operation.

Drive and Mounting Frame

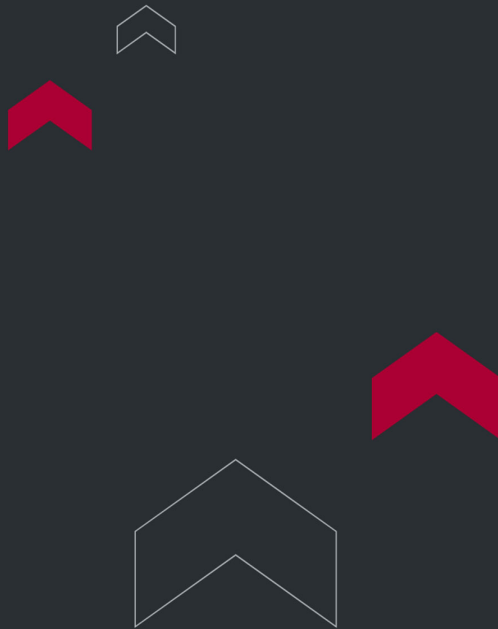
Pulverizer and suction box are mounted on a flat steel structure with pre-installed anti-vibration pads. The drive motor features a V-belt drive and protective belt guard.

Safety Devices

Integrated safety interlock prevents access until the rotor is fully stopped, ensuring operator protection.

TECHNICAL SPECIFICATIONS

Raw material	H-PVC-Profile ,H-PVC-Pine ,LDPE(MFI70) and etc.
Final product & capacity	250~500kg/h, depends on condition of client's material.
400~1000kg/h, depends on condition of client's material.	3×380V, 50Hz; control current 220V, 50Hz (110V is also available. Please specify when ordering)
Model	TT-PM500
Profile- H-PVC	400-500 kg/h
Pipe- H-PVC	450-600 kg/h
PE	250-300 kg/h
Rotor speed	5250 rmp
Disc diameter	500 mm
Tooth grooves	2.62
Drive motor	55 kw



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