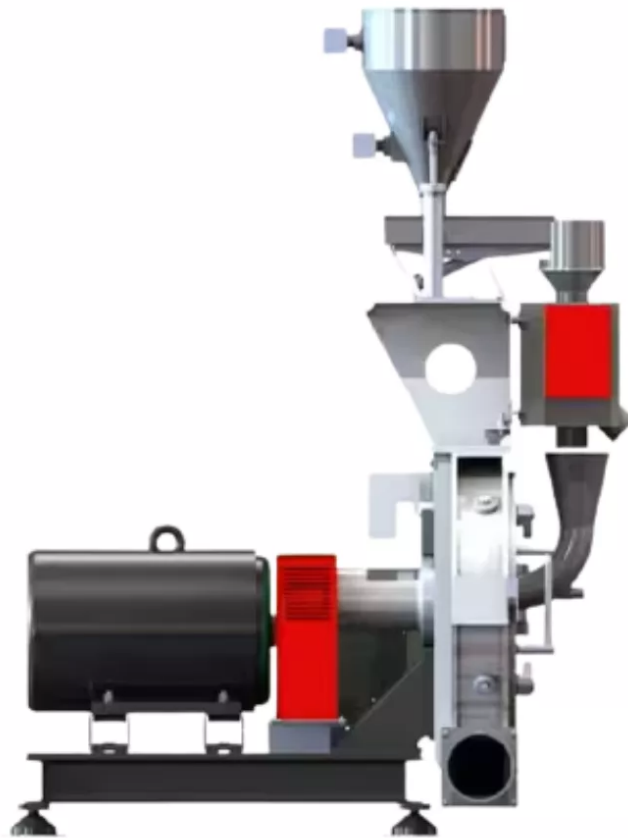




CARBON STEEL PULVERIZER MACHINE FOR PLASTIC REUSE TT-PM800

The Carbon Steel Pulverizer Machine for Plastic Reuse TT-PM800 is ideal for crushing semi-rigid, brittle, and impact-resistant materials that need to be turned into powdered products.

Particles measuring 6-8 mm pass through a vibrating screen and enter a rapidly rotating high-speed sawtooth disc, resulting in a powder within the desired 300-1000 micron range. The final size can be adjusted by changing the spacing between discs. It's commonly used for shredding LDPE, HDPE, UPVC, PC, and various other types of plastics.

APPLICATIONS

- **Plastic Recycling Plants:** Pulverizes semi-rigid, brittle, and impact-resistant plastics into fine powder.
- **Powder Production:** Produces 300–1000 micron powders from particles sized 6–8 mm.
- **Material Reuse:** Enables reprocessing of LDPE, HDPE, UPVC, PC, and similar plastics.
- **Compounding & Masterbatch:** Creates fine powders suitable for blending into compounds and masterbatch production.
- **Film & Sheet Extrusion:** Supplies consistent powder feedstock for extrusion processes.
- **Pipe & Profile Manufacturing:** Converts rigid plastics into reusable powder for pipe and profile applications.
- **Injection & Rotomolding:** Provides fine powders for molding applications requiring uniform particle size.

FEATURES

TT-PM800 Carbon Steel Pulverizer Machine for Plastic Reuse

Applications

The pulverizer is designed for semi-rigid, brittle, and impact-resistant plastics that require processing into fine powders. Particles sized between 6–8 mm pass through a vibrating screen before reaching a high-speed sawtooth disc, producing powders within the 300–1000 micron range. Final particle size is adjusted by controlling the disc spacing.

Commonly processed materials include:

- LDPE
- HDPE
- UPVC
- PC
- Other thermoplastics

Design

The **TT-PM800 Carbon Steel Pulverizer Machine** is a high-output unit that can be equipped with automatic temperature control. Material is centrally fed between stationary and rotating discs. Centrifugal forces guide it through the processing area before pneumatic discharge from the machine.

Advantages

- Extended disc lifespan between regrinds
- Quick disc replacement and adjustment
- Short residence time reduces thermal stress on material
- High throughput capacity
- Efficient and cost-effective operation

Technical Features

- Channel width: 100–250 mm

- Storage container capacity: 50–100 liters
- Feeding regulated by a high-current controller for the pulverizer motor
- Mounted with integrated bracket and control device

Pulverizer Housing

- Contains a disc pulverizer with fixed and high-speed toothed discs supported by precision bearings
- Material enters through the fixed disc center opening
- Particle size controlled by disc tooth structure and adjustable clearance
- Clearance checked via inspection hole; external adjustment possible with a feeler gauge
- Screenless design for consistent performance
- Constructed from welded, fracture-resistant steel with hinged housing door for cleaning and disc replacement
- Grinding chamber with compact cross-section and nearly vertical grinding disc ensures immediate clamping and reduction

Pulverizer Discs

- Specially designed for high-speed peripheral operation
- Delivers efficient impact reduction with low energy consumption
- Disc diameter: 800 mm

Temperature Control

Automated cooling system includes a water-spraying nozzle, regulating mechanisms, solenoid valves, thermostats, an automatic control unit, and a feeding switch to maintain stable operating temperature.

Drive and Mounting Frame

The pulverizer and suction box are mounted on a flat steel structure with pre-installed anti-vibration pads. The drive motor uses a V-belt drive with a protective belt guard for safe and efficient power transfer.

Safety Devices

Integrated safety interlocks prevent 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	400~1000kg/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-PM800
Profile- H-PVC	800-1000 kg/h
Pipe- H-PVC	900-1100 kg/h
PE	400-500 kg/h
Rotor speed	3240 rmp
Disc diameter	800 mm
Tooth grooves	2.79
Drive motor	90 kw



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