



SHREDDER - PLASTIC RECYCLING SHREDDER MACHINE FOR WASTE MANAGEMENT

The Shredder - Plastic Recycling Shredder Machine For Waste Management For Waste Management is known for its cost-effectiveness and versatility.

This Shredder - Plastic Recycling Shredder Machine For Waste Management offers various rotor designs, spanning from 500mm to 1400mm in width. Featuring high-efficiency double-scissor cutting technology, the rotor ensures efficient operation.

The welded cavity within the sturdy steel structure, combined with the V-shaped rotor, guarantees machine stability and consistent performance. Its compact design simplifies cavity maintenance, enabling quick cleaning and easy replacement of rotary knives, fixed knives, and screens.

Shredder - Plastic Recycling Shredder Machine For Waste Management For Waste Management Specifically designed for online recycling in plastic production lines, the GE series economical crusher uses special cutting technology to reclaim various small hollow materials. It excels in recovering injection mold parts, blow mold parts, profiles, sheets, films, and other similar materials, ensuring uniform recycled flakes.

APPLICATIONS

- **Plastic Production Lines:** Enables online recycling of injection-molded parts, blow-molded parts, profiles, and sheets directly from production.
- **Film & Packaging Recycling:** Processes films, thin plastics, and hollow containers for reuse in packaging and manufacturing industries.
- **General Plastic Waste Management:** Handles a wide range of small to medium-sized plastic waste materials for efficient recycling.
- **Manufacturing Industry:** Reclaims defective or surplus plastic products for reprocessing, reducing production waste and costs.
- **Recycling Facilities:** Converts mixed post-industrial and post-consumer plastics into uniform flakes for secondary processing.

- **Cost-Effective Waste Reduction:** Provides compact, stable, and energy-efficient shredding solutions ideal for small-scale operations.
- **Noise-Sensitive Environments:** Suitable for facilities requiring quieter recycling, featuring a sound-insulated chamber and silo design.

FEATURES

Belt Conveyor

BELT CONVEYOR

The conveyor automatically feeds plastic waste into the crusher with precision.

Powered by ABB/Schneider frequency converters, it ensures accurate speed control.

The belt speed adjusts in real time to match crusher load, optimizing throughput and efficiency.

Metal Detector

METAL DETECTOR

A permanent magnetic belt or optional metal detector protects the system by preventing ferrous materials from entering the chamber.

This safety feature safeguards blades, improves uptime, and extends overall equipment life.

Rotor

ROTOR

The crusher's heavy-duty rotor combines welded steel construction with rotary knives and a V-shaped angle design.

Its X-shaped cutting structure enhances efficiency, while the extension shaft can be equipped with a governor wheel.

Adjustable tools simplify maintenance and reduce downtime for blade changes.

Knife Blades

KNIFE BLADES

Manufactured from DC53 steel, the blades achieve hardness levels of 62-64 HRC after heat treatment.

Compared with D2/SKD11, DC53 offers double the toughness, superior wear resistance, and significantly higher fatigue strength.

These properties ensure reliable performance and longer cutting cycles.

Crushing Chamber

CRUSHING CHAMBER

Built with 40 mm ultra-high hardness steel plates, the crushing chamber ensures strength and resilience.

Its design provides wear resistance, corrosion protection, reduced noise, and long-term durability under continuous operation.

Motor

MOTOR

Powered by WEG motors, the crusher achieves consistent output with low energy consumption.

The design ensures quieter operation and longer service life, making it suitable for heavy-duty use.

Crusher Frame

FRAME

The rigid welded frame integrates rubber-metal shock absorbers.

This design reduces vibration, minimizes noise, and enhances overall stability during high-capacity crushing.

Crusher Silo

SILO

The large-volume air supply system is designed for quiet operation.

Constructed from 304 stainless steel, the silo and pipes are lined with sound-insulation cotton to reduce noise and ensure durability.

Electronic Control

ELECTRONIC CONTROL

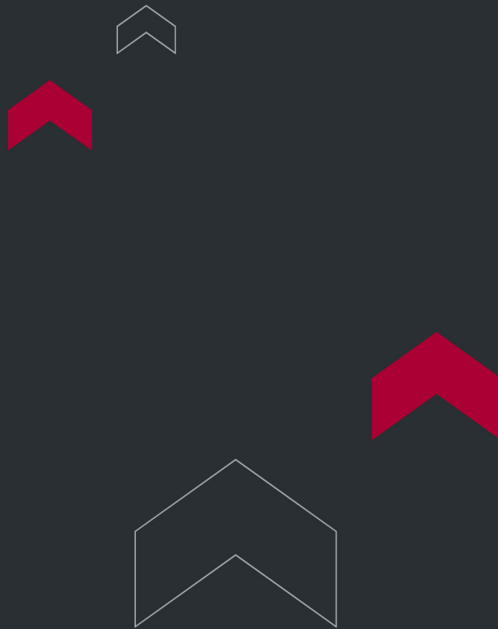
The crusher is equipped with an advanced electronic control system.

Using frequency conversion technology, it provides precise operation and complies with international safety standards, including CE and CSA.

TECHNICAL SPECIFICATIONS

Item	unit	TT-GE500/500	TT-GE500/700	TT-GE500/1000	TT-GE500/1400
Rotor diameter	mm	500	500	500	500
Rotor width	mm	500	700	1000	1400
Chamber size	mm	540*540	540*700	540*990	540*1400
Number of rotor knives	row	5	5	5	5
Number of stator knives	row	2	2	2	2

Standard screen	mm	>6	>6	>6	>6
Motor Power	kw	30	37	55	75
Machine Length	Inches	44.2913	52.3622	64.96	80.71
Machine Width	Inches	75.20	75.20	75.20	75.20
Machine Height	Inches	90.94	98.82	103.94	106.69



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