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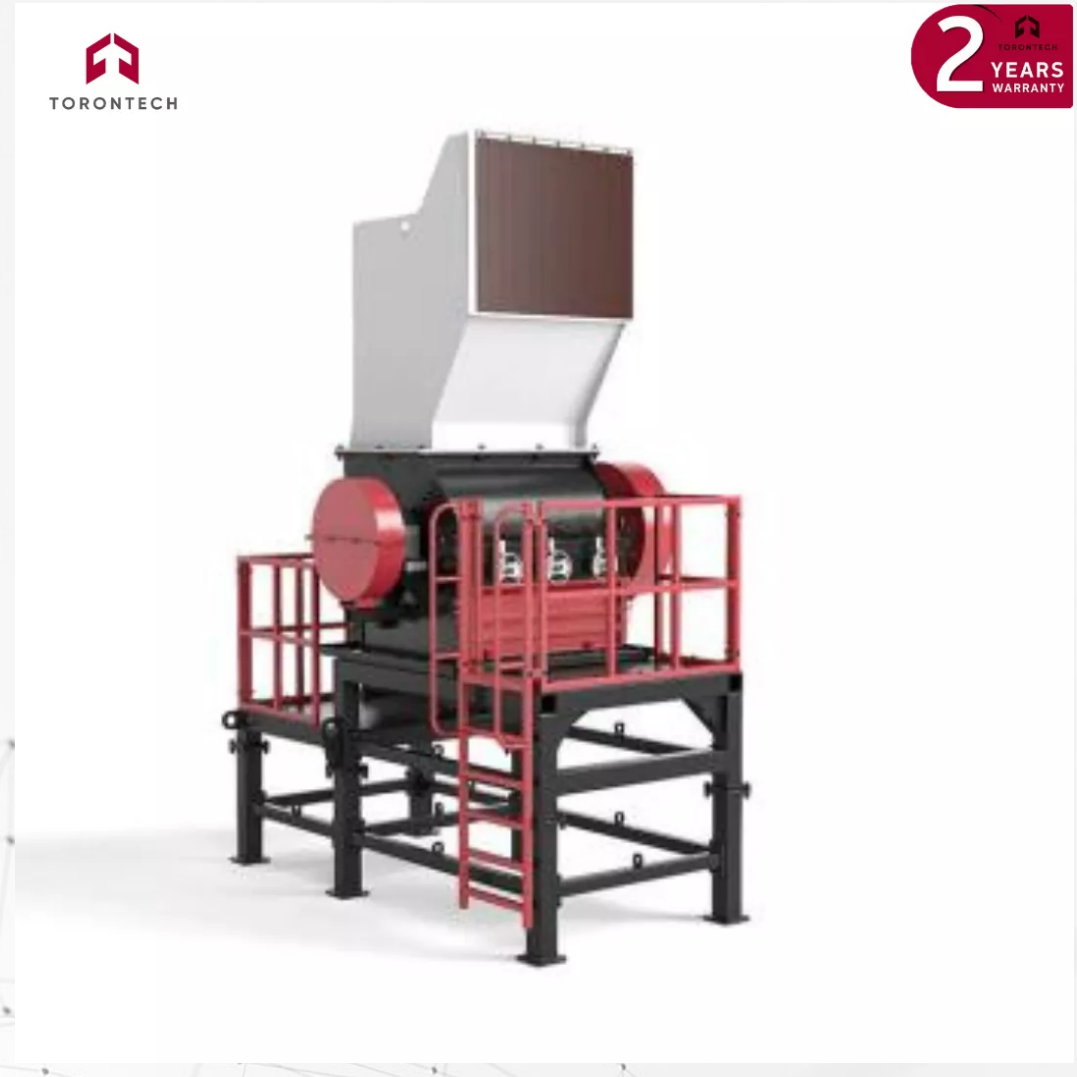

CRUSHER - HIGH OUTPUT EFFICIENT PLASTIC CRUSHER MACHINE

The Crusher - High Output Efficient Plastic Crusher Machine is a specialized crusher designed for high output and low energy consumption, specifically tailored for recycling film, small hollow bottles, and PET bottles.

Crusher - High Output Efficient Plastic Crusher Machine equipped with various types of rotors to match different material forms and crushing requirements. Rotor diameters range from 500mm to 800mm, with a minimum rotor width of 700mm and a maximum of 1600mm. High Output Efficient Plastic Crusher Machine Customized rotor structures can be designed to achieve optimal crushing effects.

The steel structure is integrally welded using a special welding process, ensuring durability and the ability to handle challenging materials. High Output Efficient Plastic Crusher Machine equipped with large rotor bearings, tool holders, and rotors. Utilizing standard V-shaped cutting technology enhances recycling efficiency and reduces dust content in recycled materials.

Additionally, a detachable deflection wedge featuring a third knife allows for easy adjustment to meet diverse crushing needs. Standard equipment includes easily removable anti-wear plates in the crushing chamber and external bearings to minimize the risk of contaminants entering the system.

APPLICATIONS

- **Bottle Recycling**: Crushes PET bottles, small hollow bottles, and various plastic containers for reuse in new products.
- **Film & Packaging Waste**: Processes plastic films, woven bags, and thin packaging materials, converting them into recyclable flakes.
- **Pipe & Profile Processing**: Grinds PVC, PP, and PE pipes, as well as plastic profiles and sheets, for efficient reprocessing.
- **Industrial Waste**: Handles defective products, offcuts, and production scraps from manufacturing lines to reduce disposal costs.
- **Rubber & Sponge Recycling**: Processes EVA, TPR, TPE, waste rubber products, and sponge materials for sustainable recovery.

- **Electronic & Appliance Shells**: Crushes plastic housings, casings, and shells from electronics and appliances for recycling.
- **Recycling Facilities**: Provides high-output crushing capacity to support large-scale plastic waste management and recycling systems.

FEATURES

Belt Conveyor

BELT CONVEYOR

Plastic waste is fed into the crusher using a precision-driven belt conveyor.

Powered by ABB/Schneider frequency converters, it ensures smooth and accurate speed regulation.

The conveyor speed automatically adjusts to match crusher capacity, maximizing efficiency and reducing strain on the system.

Metal Detector

METAL DETECTOR

A permanent magnetic belt or optional metal detector protects the blades from metal intrusion.

This safeguard extends blade life, minimizes downtime, and ensures safer operation.

Crusher Rotor

ROTOR

The heavy-duty vane rotor is built with a welded steel frame and rotary knives.

Its V-shaped mounting angle and X-shaped cutting design increase cutting efficiency.

An extension shaft can support a governor wheel, while adjustable rotor tools minimize downtime during blade changes.

Knife Blades

KNIFE BLADES

The blades are forged from DC53 steel, heat-treated to 62–64 HRC for maximum hardness.

Compared to D2/SKD11, they deliver double the toughness, higher fatigue resistance, and superior wear performance.

This guarantees long service life and reliable crushing capacity.

Crushing Chamber

CRUSHING CHAMBER

The chamber is fabricated from 40 mm ultra-high hardness steel plate.

This construction ensures outstanding wear resistance, corrosion protection, reduced noise, and extended operational life.

Motor

MOTOR

The system uses WEG motors, delivering low energy consumption, reduced noise, and long service life.

Designed for heavy-duty performance, they ensure reliable power for continuous crushing.

Crusher Frame

FRAME

The welded frame sits on durable rubber-metal shock absorbers.

This design effectively absorbs impact, reduces vibration, and lowers operational noise.

Crusher Silo

SILO

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

Pipes and silos are built from 304 stainless steel, with sound insulation cotton lining to reduce noise and enhance durability.

Electronic Control

ELECTRONIC CONTROL

The crusher incorporates a frequency conversion control system.

Fully compliant with CE and CSA standards, it provides precise, efficient, and safe automated operation.

Tool Installation

TOOL INSTALLATION

Tools can be adjusted externally while the crusher remains operational.

This design streamlines blade replacement, reduces downtime, and simplifies maintenance.

TECHNICAL SPECIFICATIONS

Item	Unit	TT-GF500/700	TT-GF700/1000	TT-GF700/1200	TT-GF800/1600
Rotor diameter	mm	500	700	700	800
Rotor width	mm	700	1000	1200	1600
Number of stator knives	pcs	5*2	5*2/7*2	5*2/7*2	5*4/7*4
Number of stator knives	row	2	2	2	2
Chamber size	mm	500*700	700*1000	700*1176	800*1600
Motor power	kw	45	75	90	160
Machine Length	Inches	87.7953	99.6063	108.2677	124.0157
Machine Width	Inches	64.1732	78.3465	87.7953	106.6929
Machine Height	Inches	135.8268	141.7323	145.6693	153.5433

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