



CRUSHER - HEAVY DUTY PLASTIC CRUSHERS GRINDING MACHINE

The Crusher - Heavy Duty Plastic Crushers Grinding Machine are built to handle tough materials and meet demanding grinding needs with a robust welded steel structure. These Heavy Duty Plastic Crushers Grinding Machine feature a sturdy crushing cavity and come equipped with a range of rotors.

The rotor diameter spans from 700mm to 1100mm, while rotor length varies between 700mm to 2400mm. The Heavy Duty Plastic Crushers Grinding Machine comes up with a substantial rotor bearings and a "V" shaped rotor design, enhancing cutting efficiency and minimizing dust in the processed materials. Incorporating a detachable deflection wedge (the third fixed knife) allows the Heavy Duty Plastic Crushers Grinding Machine to effectively granulate diverse materials, rapidly boosting production.

Additionally, anti-wear plates within the crushing cavity and external bearings aid in preventing contaminants from entering the crushing chamber. The GH Series scrap grinding crushers find widespread use in reducing the size of profiles, pipes, films, sheets, and large rigid lumps, among other materials

APPLICATIONS

- **Plastic Recycling:** Grinds rigid plastic lumps, defective products, and production waste into reusable materials for manufacturing.
- **Pipe & Profile Processing:** Reduces large plastic pipes, profiles, and extruded products into uniform flakes for efficient reprocessing.
- **Film & Sheet Recycling:** Handles plastic films, sheets, and thin-wall materials for secondary processing and material recovery.
- **Injection & Blow Molding Waste:** Recycles purges, rejects, and hollow plastic items generated from injection and blow molding lines.
- **Industrial Waste Management:** Supports recycling of bulky post-industrial plastics in manufacturing plants to reduce disposal costs.
- **Packaging Recycling:** Processes heavy-duty packaging waste such as containers, trays, and transport packaging for reuse.

- **Recycling Facilities:** Integrates into large-scale grinding and shredding systems to handle high-volume plastic waste streams efficiently.

FEATURES

Belt Conveyor

BELT CONVEYOR

The conveyor delivers plastic waste into the crusher with consistent precision.

Equipped with ABB/Schneider frequency converters, it offers accurate speed control.

The system automatically adjusts to the crusher's load, ensuring smooth feeding and optimized performance.

Metal Detector

METAL DETECTOR

An optional permanent magnetic belt or metal detector prevents metallic contaminants from entering the crusher.

This protection safeguards blades, enhances reliability, and reduces maintenance interruptions.

Crusher Rotor

ROTOR

The heavy-duty vane rotor is built with a welded steel frame, rotary knives, and a V-shaped mounting angle.

Its X-shaped cutting design increases efficiency, while the extension shaft accommodates a governor wheel.

Adjustable rotor tools reduce downtime, making blade changes faster and easier.

Knife Blades

KNIFE BLADES

Made from DC53 steel, the blades achieve 62–64 HRC after heat treatment.

They deliver twice the toughness of D2/SKD11, superior wear resistance, and significantly higher fatigue strength.

This ensures durability and consistent cutting performance.

Crushing Chamber

CRUSHING CHAMBER

Built from 40 mm ultra-high hardness steel plate, the chamber resists wear and corrosion.

Its sturdy design lowers noise levels and extends operational life, even in demanding applications.

Motor

MOTOR

The crusher is powered by WEG motors, trusted for their energy efficiency and reliability.

They offer reduced noise, extended durability, and consistent output for heavy-duty operations.

Crusher Frame

FRAME

The welded frame is supported by rubber-metal shock absorbers.

This structure improves stability, minimizes vibration, and lowers noise during operation.

Silo

SILO

The silent air supply system uses large-volume stainless steel pipes and silos made from 304 stainless steel.

Exterior insulation cotton further reduces noise while ensuring long-lasting durability.

Electronic Control

ELECTRONIC CONTROL

The electronic control system integrates frequency conversion technology.

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

Tool Installation

TOOL INSTALLATION

External tool adjustment allows blades to be changed quickly and safely.

This design reduces downtime, streamlines maintenance, and keeps production running efficiently.

TECHNICAL SPECIFICATIONS

Item	Unit	TT- GH700/700	TT- GH700/1000	TT- GH700/1200	TT- GH800/1400	TT- GH800/1600	TT- GH800/2000	TT- GH1100/1200	TT- GH1100/2400
Rotor diameter	mm	700	700	700	800	800	800	1100	1100

Rotor width	mm	700	1000	1200	1400	1600	2000	1200	2400
Number of rotor knives	pcs	7*2/5*2	7*2/9*2	7*2/9*2	3*2/5*2	7*4/9*4	7*4/9*4	7*2/9*2/11*2	7*2/9*2/11*2
Number of stator knives	row	2/3	2/3	2/3	2/3	2/3	2/3	2*55/2*75	2*55/2*75
Chamber size	mm	690*690	985*800	1150*815	1360*910	1570*915	1960*915	144	144
Motor power	kw	55	90	110	132	160	160*2	200	200*2
Machine length	Inches	88.5827	110.8268	110.8268	122.0472	122.0472	108.4646	122.6772	120.4724
Machine width	Inches	74.8031	81.1024	92.9134	104.7244	112.5984	183.2677	96.063	150.7874
Machine height	Inches	116.1417	134.6457	148.4252	150.3937	160.8268	188.0315	174.4094	174.41



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