



CRUSHER - PLASTIC CRUSHER MACHINE FOR GRINDING LONG PLASTIC PIPES

The Crusher - Plastic Crusher Machine For Grinding Long Plastic Pipes are engineered to grind lengthy plastic pipes and profiles. A robust steel cavity, welded together, creates a fixed angle with the horizontal feeding hopper.

This hopper, nearly parallel to the ground, offers great convenience in feeding lengthy materials like small-diameter PVC pipes and profiles. Crusher - Plastic Crusher Machine For Grinding Long Plastic Pipes Should an excessive amount of solid waste be fed into the crushing chamber, the rotor stops accepting additional material until the existing material is crushed within the chamber. This feature eliminates concerns about material blockage.

The Crusher - Plastic Crusher Machine For Grinding Long Plastic Pipes come with rotor diameters ranging from 560mm, 600mm, to 700mm, accompanied by rotor lengths of up to 1400mm. The "V" shaped rotor design enhances cutting efficiency and minimizes dust in the resulting flakes. Anti-wear plates integrated into the crushing cavity, along with external bearings, reduce the risk of contaminants entering the crushing chamber.

Crusher - Plastic Crusher Machine For Grinding Long Plastic Pipes Specifically tailored for small-diameter pipes and profiles, the GP crusher accommodates 16-450mm PE, PP, and PVC pipes, as well as wide door panels and sheets. For enhanced crushing capacity, it can be outfitted with a feeding conveyor, suction fan, storage bin, and a dust removal system.

APPLICATIONS

- **Pipe Recycling:** Grinds long PE, PP, and PVC pipes ranging from 16–450 mm in diameter for efficient reuse and reprocessing.
- **Profile & Panel Processing:** Crushes plastic profiles, wide door panels, and sheets into uniform flakes for secondary manufacturing.
- **Packaging Waste:** Handles plastic bottles, containers, woven bags, and films, converting them into recyclable materials.
- **Industrial Plastic Waste:** Processes production scraps, defective parts, and extrusion offcuts from manufacturing plants to reduce waste.

- **Rubber & Sponge Recycling:** Recycles rubber products, EVA, TPR, TPE, and sponge materials for sustainable material recovery.
- **Electronic & Appliance Shells:** Reduces the size of plastic housings and casings from electronics and household appliances for recycling.
- **Recycling Facilities:** Integrates with conveyors, suction fans, and dust removal systems to support high-capacity recycling operations.

FEATURES

Crusher Rotor

ROTOR

The heavy-duty rotor is engineered with a welded steel frame, rotary knives, and a V-shaped angle for precision cutting.

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

The adjustable rotor design minimizes downtime by allowing faster tool changes.

Knife Blades

KNIFE BLADES

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

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

These properties ensure consistent performance and extended blade service life.

Crushing Chamber

CRUSHING CHAMBER

Constructed from 40 mm ultra-high hardness steel plate, the chamber delivers superior durability.

It is designed to resist wear and corrosion, reduce noise levels, and extend service life in continuous operations.

Crusher Motor

MOTOR

Powered by WEG motors, the crusher offers consistent performance with lower energy consumption.

These motors are engineered for minimal noise and extended service life, even under heavy-duty workloads.

Crusher Frame

FRAME

The welded frame is reinforced with rubber-metal shock absorbers.

This design minimizes vibration, reduces noise, and provides greater structural stability during operation.

Crusher Silo

SILO

The high-capacity air supply system ensures quiet and efficient operation.

Pipes and silos are made from 304 stainless steel and lined with insulation cotton to reduce noise and extend durability.

Electronic Control System

ELECTRONIC CONTROL

The crusher integrates a frequency conversion control system for precision and efficiency.

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

Tool Installation

TOOL INSTALLATION

External tool adjustments allow operators to make changes quickly without halting production.

This feature minimizes downtime, simplifies maintenance, and ensures smoother operations.

TECHNICAL SPECIFICATIONS

Item	Unit	TT-GP600/500	TT-GP560/700	TT-GP560/1000	TT-GP700/1400
Feed opening	mm	440*440	640*280	910*280	1440*320
Rotor diameter	mm	600	560	560	700
Rotor speed	rpm	560	470	470	410
Motor power	kw	37	55	75	110
Number of rotor knives	pcs	5*2	5*2	5*2	5*3
Number of stator knives	pcs	2	2	2	2
Hydraulic power	kw	1.5	1.5	1.5	1.5
Standard screen	mm	6~30	6~30	6~30	8~30
Chamber size	mm	516*498	716*650	985*650	1400*700
Machine Length	Inches	88.58	94.49	94.49	97.64
Machine Length	Inches	73.23	86.61	86.61	91.34
Machine Width	Inches	53.15	70.87	80.71	94.49
Machine Width	Inches	32.28	41.73	58.27	72.44
Machine Height	Inches	63.78	68.90	68.90	77.95



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