



SHREDDER - ADJUSTABLE PIPE WASTE PLASTIC SHREDDER

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The Shredder - Adjustable Pipe Waste Plastic Shredder is specifically designed for recycling companies managing large volumes of waste plastic. These shredders feature powerful adjustable hydraulic pushers to prevent material jams and minimize wear on internal rails.

Equipped with a 450mm diameter effective V-type rotor ranging from 1000mm to 2000mm in width, the shredder integrates its hydraulic workstation tightly with the chamber, conserving space and safeguarding the hydraulic station.

This setup also facilitates easy replacement and maintenance. Recognized and praised by customers, the standard V-type rotor design, equipped cutters and holders, external bearings, and hydraulic screen brackets have garnered positive feedback.

The Adjustable Pipe Waste Plastic Shredder can be further customized based on customers' waste disposal needs. Options include cooling systems, rotor surface hardening treatments, and other anti-wear devices. This design caters to various waste plastic recycling demands, encompassing general waste, electronic waste, and domestic waste processing.

It handles diverse recyclable materials such as plastic blocks, trays, pipes, films, woven bags, electronic cable waste, ICB buckets, large household appliance housings, waste paper, wood waste, and different organic materials. The mesh screen size can be adjusted based on the material being crushed and the subsequent processing requirements.

APPLICATIONS

- **Plastic Recycling:** Processes plastic pipes, blocks, trays, films, woven bags, and IBC buckets into reusable flakes for manufacturing.
- **E-Waste Recycling:** Shreds electronic cable waste and plastic-based electronic components for safer disposal and material recovery.

- **Household Appliance Recycling:** Handles large appliance housings such as refrigerator shells and washing machine casings for efficient recycling.
- **Paper & Wood Processing:** Reduces waste paper, cardboard, and wood scraps into manageable sizes for secondary processing and recycling.
- **Organic Waste Management:** Shreds agricultural residues and organic waste for composting, biomass conversion, or biofuel production.
- **Municipal & Domestic Waste:** Manages bulky plastics and mixed household waste streams efficiently, improving recycling rates and storage.
- **Industrial Waste Management:** Supports recycling plants in processing large-volume, rigid, and mixed industrial waste streams effectively.
- **Custom Recycling Systems:** Integrates rotor hardening, cooling systems, and adjustable mesh sizes to provide tailored recycling solutions across industries.

FEATURES

Belt Conveyor

BELT CONVEYOR

Plastic waste is smoothly delivered into the shredder by the belt conveyor. Integrated ABB/Schneider frequency converters ensure precise speed control, while the system automatically adapts to the shredder's load for consistent, high-performance feeding.

Metal Detector

METAL DETECTOR

An optional magnetic belt or metal detector prevents unwanted metallic objects from entering the shredder, ensuring blade protection and uninterrupted operation.

Hopper

HOPPER

The reinforced hopper design keeps materials contained during loading. Its large capacity accommodates feeding by conveyor, forklift, crane, or loader. Flexible customization supports steady supply and improved efficiency.

Hydraulic Ram

HYDRAULIC RAM

The hydraulic ram automatically pushes materials toward the cutting chamber with load-responsive accuracy. Equipped with adjustable flow and safety valves, it provides stable operation across varying material inputs.

Rotor

ROTOR

The solid steel rotor features a wide diameter and optimized speed for maximum cutting performance. Fitted with four-way rotating knives, it reduces cutting gaps for higher throughput, lower energy use, and reliable output quality.

Knife Blades

KNIFE BLADES

Blades are manufactured from DC53 steel, hardened to 62–64 HRC for outstanding durability. Compared with D2/SKD11, they offer double the toughness, superior wear resistance, and greater fatigue strength.

Screen

SCREEN

Positioned beneath the rotor, the screen defines flake size with precision. A hinged flap provides quick access for replacement, while the hydraulic system enables smooth opening and closing.

Shredder Chamber

SHREDDER CHAMBER

The shredder chamber is built from 30 mm ultra-hard steel plate for exceptional wear and corrosion resistance. Its robust design reduces noise and significantly extends machine lifespan.

Motor

MOTOR

Powered by a WEG motor, the system delivers low energy usage, quiet operation, and extended service reliability. Ideal for demanding recycling environments.

Electronic Control

ELECTRONIC CONTROL

The electronic control system features frequency conversion technology for precise performance and is certified to international standards including CE and CSA.

Tool Installation

TOOL INSTALLATION

External tool adjustment simplifies maintenance, reduces downtime, and makes blade changes faster and more efficient.

TECHNICAL SPECIFICATIONS

Item	Unit	TT-MS850	TT-MS1200	TT-MS1500	TT-MS2000
Feed opening	mm	840*1570	1120*1570	1120*1570	1960*1570
Rotor diameter	mm	460	460	460	460
Rotor speed	rpm	74	74	74	74
Motor power	kw	37	55	75	2*55
Number of rotor knives	pcs	60	81	102	144
Number of stator knives	pcs	2*3	2*4	2*5	2*7
Hydraulic feeding ram	kw	3.75	5.6	5.6	5.6
Standard screen	mm	40~100	40~100	40~100	40~100
Chamber size	mm	800*730	800*1000	800*1290	800*1860
Machine Length	Inches	82.1	90.6	90.6	90.6
Machine Width	Inches	76.4	89.2	101.97	146.1

Machine Height	Inches	95.87	101.77	101.77	101.77
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