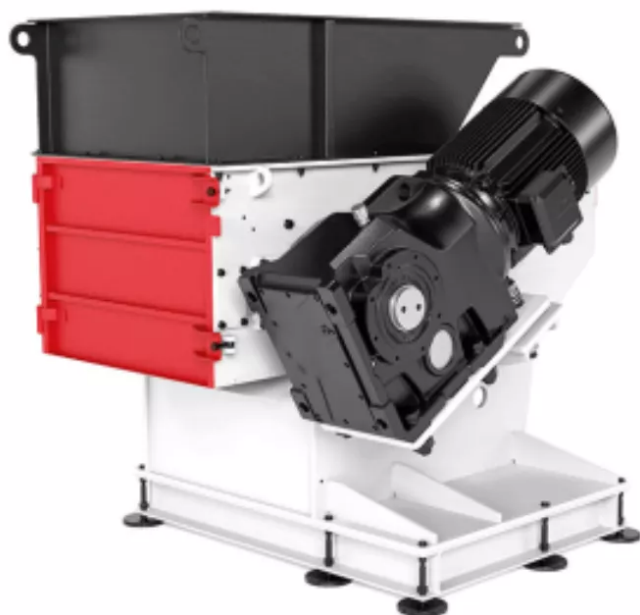




SHREDDER - PLASTIC WASTE SINGLE SHAFT SHREDDER

The Shredder - Plastic Waste Single Shaft Shredder is specifically crafted for small-volume and thin-walled waste plastic products.

These Shredder - Plastic Waste Single Shaft Shredder feature a tangential in-feed, eliminating the need for a hydraulic feeding system. They're equipped with outboard bearings and E-type smooth rotors, with rotor widths of 600mm and 800mm, driven by a reducer.

Rotor knives are affixed to the rotor by a movable knife holder, adopting square knives with a central groove. Each of the rotor knife's four corners can be alternately used, allowing each knife to be used continuously four times. Operating at an ultra-low speed of 60rpm, combined with the compact design, these shredders operate quietly even when handling blocks.

The plug-and-play intelligent control system ensures equipment readiness at all times and locations. Compared to larger shredders, the LS series comes up with a smaller footprint, flexible mobility, and quicker, more convenient maintenance.

The Plastic Waste Single Shaft Shredder is ideal for small and medium-sized parts, including pipes with small volumes and thin walls, waste hollows, sheets, and profiles from plastic production, as well as lumps and purges from injection manufacturing.

APPLICATIONS

- **Plastic Production Waste:** Shreds hollow parts, sheets, and profiles generated from extrusion and molding processes for recycling and reuse.
- **Injection Molding Industry:** Processes lumps, purges, and rejected parts for regrinding and material recovery in production cycles.
- **Pipe Recycling:** Handles small-volume, thin-walled plastic pipes efficiently, reducing waste and enabling reuse.
- **Packaging Recycling:** Shreds lightweight plastic containers, films, and thin-walled products for effective recycling.
- **Small & Medium Recycling Operations:** Ideal for localized facilities requiring compact, mobile shredders for flexible recycling applications.

- **Laboratory & R&D Use:** Suitable for testing recycling methods, pilot projects, or processing small-batch plastic materials.
- **Municipal Plastic Waste:** Manages small plastic components and thin packaging waste from households and businesses to support municipal recycling programs.

FEATURES

Belt Conveyor

BELT CONVEYOR

Plastic waste is automatically transported into the shredder using a belt conveyor system.

Controlled by ABB/Schneider frequency converters, it offers precise speed regulation.

The conveyor speed synchronizes with shredder load, adapting in real time to maintain consistent throughput.

Metal Detector

METAL DETECTOR

An optional permanent magnetic belt or advanced metal detector is available.

This safeguard prevents metallic objects from reaching the cutting chamber.

By protecting the blades, it ensures safe operation and reduces downtime.

Hopper

HOPPER

The specially engineered hopper minimizes scattering during material feeding.

Its generous capacity supports loading by conveyor, forklift, crane, or wheel-loader.

Customizable design ensures steady supply and cost-effective operation.

Hydraulic Ram

HYDRAULIC RAM

A hydraulically operated pusher guides materials toward the rotor automatically.

Load-sensitive controls adjust pressure for consistent performance.

Equipped with overflow valves and volumetric flow control, it adapts to various material types.

Rotor

ROTOR

Manufactured from seamless steel pipes, the rotor measures 750 mm in diameter and runs at 52 rpm.

Aggressive concave-ground knives are mounted in precision grooves.

This configuration reduces cutting gaps, increases efficiency, and minimizes power use.

Knife Blades

KNIFE BLADES

Blades are crafted from DC53 steel for superior performance.

Heat-treated to 62-64 HRC, they outperform D2/SKD11 in hardness and toughness.

With enhanced fatigue strength, they deliver long-lasting cutting reliability.

Screen

SCREEN

Positioned beneath the rotor, the screen determines flake size.

A separate flap provides quick and easy access for replacement.

Hydraulic opening and closing make maintenance effortless.

Shredder Chamber

SHREDDER CHAMBER

Built from 30 mm ultra-hard steel plates, the chamber delivers durability.

It resists wear and corrosion while maintaining lower noise levels.

The robust design extends service life for demanding applications.

Motor

MOTOR

The system is powered by a WEG motor for proven reliability.

It operates with low energy consumption and reduced noise.

Designed for heavy-duty use, it offers an extended service life.

Electronic Control

ELECTRONIC CONTROL

The shredder integrates a frequency-conversion control system.

It delivers accurate and efficient operation while meeting global standards.

Certified to CE and CSA for international compliance.

Tool Installation

TOOL INSTALLATION

Tools can be adjusted or replaced externally without interrupting workflow.

This quick-change design reduces downtime.

Maintenance is simplified, ensuring greater productivity.

TECHNICAL SPECIFICATIONS

Item	Unit	TT-LS600	TT-LS800
Feed opening	mm	580*1200	780*1200
Rotor diameter	mm	250	250
Rotor speed	rpm	61	61

Number of stator knives	pcs	26	34
Number of rotor knives	pcs	2*2	2*3
Motor	kw	18.5	22
Machine Length	Inches	74.57	70.87
Machine Width	Inches	54.49	59.06
Machine Height	Inches	22.83	59.06



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