



SHREDDER - CARBON STEEL PLASTIC SHREDDER

The Shredder - Carbon Steel Plastic Shredder is a robust single-shaft shredder with a powerful two-speed swing-type hydraulic pusher. This design effectively prevents material blockages and reduces wear on internal guide rails.

Shredder - Carbon Steel Plastic Shredder Crafted using a special welding process, this model comes up with a stronger mechanical structure. Its single-machine crushing capacity surpasses other brands by 30-40%, making it ideal for recycling diverse waste materials. Featuring a 750mm diameter effective V-type rotor ranging from 1500mm to 3000mm in width, its low speed of 45rpm ensures smooth operation with high torque.

The hydraulic workstation is seamlessly integrated with the shredder chamber, saving space, protecting the hydraulic station, and facilitating easy replacement and maintenance. The Carbon Steel Plastic Shredder incorporates an intelligent PLC control system.

The rotor can be hardened and made wear-resistant as per customer specifications. Tailored water cooling systems are available to suit different shredded materials. These Carbon Steel Plastic Shredder demands and find application in wide or thick waste cardboard, refrigerator shells, large household appliance shells, daily life waste products, rubber goods, and automobile tires.

APPLICATIONS

- **Plastic Recycling:** Shreds wide and thick plastic waste, packaging materials, and large molded plastic parts for reuse in manufacturing.
- **Household Appliance Recycling:** Processes refrigerator shells, washing machine casings, and other large appliance housings for material recovery.
- **E-Waste & Daily Waste:** Handles plastic-based electronic shells, municipal plastic waste, and bulky household items for safe recycling.
- **Rubber Recycling:** Shreds rubber scraps, defective batches, and discarded products for reuse in industrial applications.

- **Automotive Industry:** Processes automobile tires, bumpers, and interior plastic components for recycling and resource recovery.
- **Paper & Cardboard:** Reduces thick or wide cardboard waste into smaller, manageable flakes for repulping and recycling.
- **Industrial Waste Management:** Supports recycling facilities in handling bulky, rigid, and mixed industrial waste streams efficiently.

FEATURES

Belt Conveyor

BELT CONVEYOR

The belt conveyor feeds plastic waste directly into the shredder. Equipped with an ABB/Schneider frequency converter, it delivers precise speed control. The system automatically adjusts belt speed in sync with shredder capacity, maximizing efficiency and throughput.

Metal Detector

METAL DETECTOR

An optional permanent magnetic belt or metal detector prevents metallic objects from entering the shredder, protecting blades and extending machine life.

Hopper

HOPPER

The carbon steel hopper is engineered to prevent scattering and spillage. With its large loading capacity, it supports feeding via conveyor, forklift, crane, or wheel loader. Customizable options ensure a steady and cost-effective material flow.

Hydraulic Ram

HYDRAULIC RAM

The load-sensitive hydraulic pusher ensures consistent feeding toward the cutter. Integrated overflow valves and volumetric flow controls allow precise adjustment to match material requirements.

Rotor

ROTOR

The seamless steel rotor (750 mm diameter, 52 rpm) integrates concave-ground, aggressive, four-way rotating knives. This design minimizes cutting gaps, ensuring high throughput, low energy use, and optimized output quality.

Knife Blades

KNIFE BLADES

Manufactured from DC53 steel, the blades achieve 62–64 HRC after heat treatment—outperforming D2/SKD11 with double the toughness, superior wear resistance, and enhanced fatigue strength.

Screen

SCREEN

Located beneath the rotor, the screen controls flake size. Its accessible flap allows quick replacement, while hydraulic operation simplifies opening and closing.

Shredder Chamber

SHREDDER CHAMBER

The chamber is built from 30 mm ultra-high hardness steel plates, delivering excellent wear and corrosion resistance, quieter operation, and extended durability.

Motor

MOTOR

Powered by a WEG motor, the system combines low energy consumption with reduced noise and long service life. Ideal for continuous heavy-duty operation.

Electronic Control

ELECTRONIC CONTROL

The integrated electronic control system uses frequency conversion for precision performance and complies with international standards, including CE and CSA.

TECHNICAL SPECIFICATIONS

Item	Unit	TT-XS1500	TT-XS2000	TT-XS3000
Feed opening	mm	2540*1620	2540*2020	2540*2820
Rotor diameter	mm	750	750	750
Rotor speed	rpm	52	52	52
Motor power	kw	2*75	2*90	2*132
Number of rotor knives	pcs	76	96	136
Number of stator knives	pcs	4	5	7
Hydraulic feeding ram	kw	11	11	11
Standard screen	mm	40-100	40-100	40-100
Chamber size	mm	1500*1490	1500*1900	1500*2700
Machine Length a	Inches	141.73 inches	141.73 inches	141.73 inches
Machine Length b	Inches	131.89 inches	131.89 inches	131.89 inches
Machine Length c	Inches	137.8 inches	137.8 inches	137.8 inches



Torontech Inc.

251 Consumers Road, Suite 1200
Toronto, Ontario, M2J 4R3, Canada 

Phone: +1 416 368 2721 | Fax: +1 416 981 7652
Email: info@torontech.com

Torontech, LLC

601 Brickell Key Drive, Suite 700
Miami, FL 33131, USA 

Toll-Free: 1-866-383-7919
Email: sales@torontech.com

Torontech ME FZE

Meydan Grandstand, 6th Floor,
Meydan Road, Nad Al Sheba,
Dubai-261440, UAE 

Phone: +971 488 19252
Email: me@torontech.com

