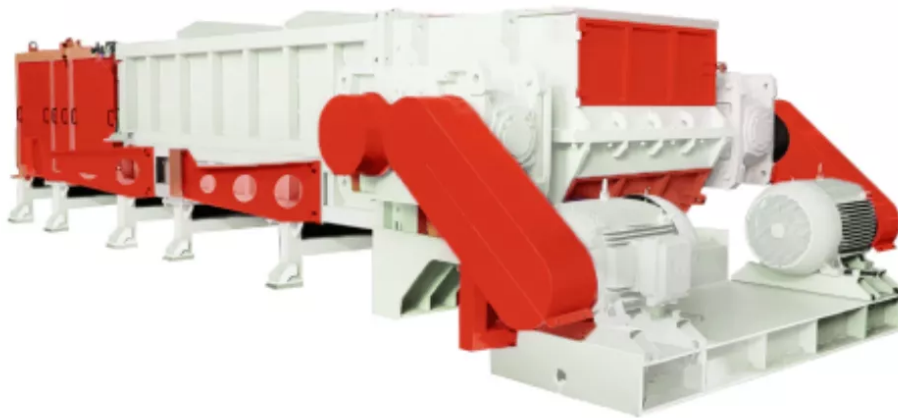




SHREDDER - SINGLE SHAFT PLASTIC SHREDDER FOR PIPE RECYCLING

The primary focus of the Shredder - Single Shaft Plastic Shredder For Pipe Recycling is to shred large-diameter pipes or bundles of smaller pipes and profiles crafted from HDPE, PP, and various types of PVC.

Additionally, these Shredder - Single Shaft Plastic Shredder For Pipe Recycling For Pipe Recycling can recycle other plastic components like sizable lumps, stacked dustbins, and pallets. When used in conjunction with other size reduction equipment, such as granulators and pulverizers, we offer a complete turnkey recycling solution.

The Single Shaft Plastic Shredder For Pipe Recycling stand as the world's initial single-shaft shredders capable of handling large-diameter pipes up to 1200 mm without requiring precutting. Since their inception, they've become the standard choice for pipe shredding, utilized by leading pipe manufacturers worldwide.

With over 100 installations showcasing our technological prowess in this industry, we continuously innovate based on market demands and customer feedback. Depending on the pipe diameter, the PS rotor diameter and width range from 800 to 1500 mm. The standard hopper accommodates pipe lengths up to 3-6m. The amalgamation of advanced controls, low rotor speed, and seamless hydraulics results in a reliable and user-friendly system.

APPLICATIONS

- **Pipe Recycling:** Shreds large-diameter HDPE, PP, and PVC pipes up to 1200 mm without the need for precutting, improving efficiency.
- **Profile & Tube Recycling:** Processes bundles of smaller pipes, plastic profiles, and tubing in a single system for streamlined recycling.
- **Industrial Plastics:** Recycles bulky plastic products such as dustbins, pallets, and large molded parts for material recovery and reuse.
- **Plastic Manufacturing Waste:** Handles production rejects, extrusion offcuts, and defective pipes to reduce waste and improve sustainability.
- **Turnkey Recycling Solutions:** Integrates with granulators and pulverizers to create complete, end-to-end plastic recycling lines.

- **Construction & Infrastructure:** Supports recycling of plastic pipes and profiles from plumbing, utilities, and building industries.
- **Large-Scale Recycling Facilities:** Designed for high-capacity operations requiring automated, continuous shredding and material handling.

FEATURES

Shredder Main Shaft

SHREDDER MAIN SHAFT

The integral forged main shaft guarantees exceptional strength and resistance to deformation, even under continuous heavy-duty operation.

Precision machining with CNC centers ensures dimensional accuracy within 0.05 mm, providing stable, long-term performance.

A minimum adjustment gap of 0.5 mm between fixed and moving tools is maintained, while the four-edge knife design allows multiple reuses—reducing overall operating costs.

Gearbox of Shredder

GEARBOX OF SHREDDER

The heavy-duty integrated gearbox enhances output shaft strength and bearing durability, ensuring extended service life and superior torque delivery.

A flexible cooling system meets demanding power conditions, while the dual oil-seal design significantly reduces the risk of leakage.

Motor of Shredder

MOTOR OF SHREDDER

Equipped with premium Weg or Siemens motors, the shredder delivers consistent output power and proven reliability for industrial-scale applications.

Hydraulic Station

HYDRAULIC STATION

The hydraulic station features a high-quality Taiwanese motor, oil pump, and valve assembly for reliable performance.

An OR150 water-cooling unit maintains oil temperatures below 55 °C, ensuring efficiency and system longevity.

Shredder Chamber

CHAMBER OF SHREDDER

The chamber measures up to 6000 × 1200 mm, accommodating pipes with diameters up to 1200 mm and lengths up to 6 meters.

Materials can be automatically fed using forklifts or cranes for streamlined handling.

Control System of Shredder

CONTROL SYSTEM OF SHREDDER

The PLC-based control system enables fully automated operation.

Once programmed, the shredder requires only start and stop inputs, lowering labor costs and providing a safer working environment.

Shredder Advantages

ADVANTAGES

- Processes pipes up to 1200 mm diameter without precutting
- Fully automated design improves safety and reliability
- Lower energy consumption with higher throughput
- Capable of handling smaller pipes and bundled profiles
- Large-diameter rotor option available up to 1200 mm

TECHNICAL SPECIFICATIONS

Item	Unit	TT-PS800	TT-PS1000	TT-PS1500
Feed opening	mm	3860*700	6700*870	6700*1300
Rotor diameter	mm	800	980	1430
Rotor speed	rpm	40	36	23
Motor power	kw	2*37	2*45	2*55
Number of rotor knives	pcs	60	108	204
Number of stator knives	pcs	3	4	5
Hydraulic feeding ram	kw	11	15	15
Machine weight	Lbs	22,000	40,000	50,000
Chamber size	Inches	137.8 inches X 24.8 inches	236.2 inches X 31.5 inches	236.2 inches X 47.2 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

