



PLASTIC SHREDDER

Plastic Shredder for Comprehensive Plastic Waste Management

Industrial Single-Shaft Shredders Engineered for Modern Recycling

A Plastic Shredder is a heavy-duty industrial machine that reduces large, dense plastic waste — pipes, bulk lumps, IBC buckets, woven bags, films, packaging, and production purges — into smaller, uniform flakes that downstream recycling equipment can wash, granulate, melt, and pelletize. Operating at low speed and very high torque, modern plastic shredders chew through materials that would stall a conventional crusher, making them the essential first stage of every serious plastic-recycling line.

Torontech offers a comprehensive range of industrial plastic shredders engineered for the diverse demands of modern recycling — from compact in-line plant shredders for production scrap, through mid-range adjustable platforms for general waste recycling, all the way to large single-shaft pipe shredders capable of consuming 1200 mm-diameter pipes up to 6 meters long without precutting. Every Torontech shredder is built around premium engineering: DC53 tool-steel blades hardened to 62–64 HRC (with double the toughness of D2/SKD11), 30 mm ultra-hard steel chambers, PLC-based intelligent controls, WEG / Siemens motors, integrated hydraulic pushers, and CE & CSA certification for international compliance. Six distinct models — Single Shaft Hard Plastic, Carbon Steel, Adjustable Pipe Waste, Plastic Waste Single Shaft (LS Series), Single Shaft For Pipe Recycling, and Plastic Recycling Shredder For Waste Management (GE Series) — give every recycling operator the precise platform their materials, throughput, and budget demand.

Build a More Sustainable Plastic Future with Torontech

Every kilogram of plastic that is shredded, washed, granulated, and re-pelletized is a kilogram of fossil-fuel feedstock that doesn't have to be extracted, and a kilogram of plastic waste that doesn't end up in landfills, rivers, or oceans. Modern recycling operations live or die by the reliability and capacity of their first-stage shredders — and the recyclers,

manufacturers, and waste-management operators who consistently deliver world-class recovery rates are the ones equipped with shredders built for power, precision, and around-the-clock industrial reliability. The Torontech plastic-shredder range gives you exactly that.

Whether you are launching a new recycling plant, expanding an existing pipe-recycling line, recovering production scrap in an injection-molding facility, or modernizing a municipal waste-management operation, Torontech has the shredder platform engineered to meet your exact needs. From the compact LS-series to the formidable 1200 mm pipe shredder, every Torontech machine is built to deliver world-class throughput backed by industry-leading service and support.

APPLICATIONS

Applications in Industries

- **Plastic Recycling Facilities** — First-stage size reduction of HDPE, PP, PVC, PET pipes, blocks, films, woven bags, IBC buckets, and packaging waste into reusable flakes.
- **Pipe & Profile Manufacturing** — Recycling of off-spec pipes, production scrap, profiles, and large-diameter pipes (up to 1200 mm) without precutting — back into the manufacturing loop.
- **Municipal & Waste Management** — Bulk processing of mixed plastic waste, domestic waste streams, and household appliance shells in municipal recycling and waste-to-resource programs.
- **Injection Molding & Plastic Production** — In-line recycling of purges, sprues, rejected parts, hollow parts, sheets, and profiles for immediate regrind and material recovery.
- **E-Waste & Electronics Recycling** — Safe size reduction of electronic cable scraps, plastic-based electronic components, and appliance housings for downstream material separation.
- **Automotive, Tire & Rubber Recycling** — Heavy-duty processing of rubber goods, automobile tires, and automotive-plastic components in dedicated recycling lines.
- **Paper, Wood & Organic Waste** — Multi-purpose size reduction of waste paper, cardboard, used wood, and organic residues for composting, biogas, and biofuel applications.

FEATURES

Why Choose Torontech for Your Plastic Shredder Needs

With more than two decades of experience supplying advanced industrial equipment to recyclers, manufacturers, and waste-management operators across more than 60 countries, Torontech delivers premium shredder performance backed by global engineering and service expertise.

Comprehensive Single-Source Portfolio

Six purpose-built shredder platforms cover every recycling scenario — from compact in-line LS-series production shredders, through versatile adjustable platforms, to flagship pipe shredders processing 1200 mm × 6 m pipes without precutting. A single trusted supplier simplifies procurement, training, spare-parts, and service across your entire plant.

Premium Engineering & Materials

Every Torontech shredder is engineered for industrial-duty service: DC53 tool-steel blades hardened to 62–64 HRC for double the toughness of D2/SKD11; 30 mm ultra-hard steel cutting chambers; integral forged main shafts with CNC-machined dimensional accuracy to 0.05 mm; integrated heavy-duty gearboxes; and WEG or Siemens motors trusted worldwide.

Intelligent Automation & Safety

Torontech shredders integrate PLC-based intelligent control systems, ABB/Schneider frequency converters with load-sensitive conveyor synchronization, optional permanent magnetic belts or metal detectors to protect the blades, hydraulic pushers with overflow and volumetric flow controls, and full CE & CSA certification for international workplace safety compliance.

Customization & Turnkey Recycling Lines

Every model can be customized with cooling systems, rotor-surface hardening, screen-size tuning, anti-wear treatments, and feed-hopper configurations matched to forklift, crane, conveyor, or wheel-loader feeding. Combined with Torontech granulators, washing lines, dryers, and extruders, the shredders form the foundation of complete turnkey recycling lines from 200 kg/h up to 3000+ kg/h.

Cost-Effective Value & Global Support

Torontech delivers premium plastic-shredder performance at a transparent, competitive price point — without the inflated cost structures of legacy brands. With offices and authorized partners across the USA, Canada, UAE, KSA, GCC, EU, India, APAC, Africa, and Latin America, expert installation, operator training, and ongoing service are always within reach.

TECHNICAL SPECIFICATIONS

Product Comparison Table

Model	Key Specifications	Best Suited For
Single Shaft Hard Plastic Shredder	Large internal volume (~35% more chamber space); V-type rotor 1200-2000 mm wide × 560 mm dia; oversized gearbox @ 85 rpm; redesigned hydraulic pusher; 750 mm seamless steel rotor; DC53 blades (62-64 HRC)	Large recycling facilities & waste-management plants handling bulk items, pipes, films, woven bags, IBC buckets, e-waste cables, paper/wood
Carbon Steel Plastic Shredder	Two-speed swing-type hydraulic pusher; V-type rotor 750 mm dia × 1500-3000 mm wide @ 45 rpm; special welded construction (30-40% higher capacity vs competitors); PLC control; WEG motor; 30 mm ultra-hard steel chamber; DC53 blades 62-64 HRC	High-volume recycling: thick cardboard, refrigerator & appliance shells, daily-life waste, rubber goods, automobile tires

Adjustable Pipe Waste Plastic Shredder	Adjustable hydraulic pushers; V-type rotor 450 mm dia × 1000–2000 mm wide; hydraulic screen bracket; integrated hydraulic workstation; 30 mm ultra-hard steel chamber; DC53 blades 62–64 HRC; WEG motor; customizable cooling & rotor hardening	Recyclers needing flexibility across general/electronic/domestic waste — plastic blocks, trays, pipes, films, woven bags, appliance housings
Plastic Waste Single Shaft Shredder (LS Series)	Tangential in-feed (no hydraulic feeder); outboard bearings & E-type smooth rotor 600 or 800 mm wide; ultra-low 60 rpm; movable square 4-corner knife holders; plug-and-play intelligent control; compact footprint; CE & CSA certified	Small-to-medium parts: thin-walled pipes, hollow parts, sheets, profiles, injection lumps & purges — ideal in-line plant recycling
Single Shaft Plastic Shredder For Pipe Recycling	Processes pipes up to 1200 mm diameter without precutting; chamber up to 6000 × 1200 mm (pipes up to 6 m); integral forged main shaft (CNC accuracy 0.05 mm); 4-edge knives (0.5 mm gap); fully automated PLC control; WEG/Siemens motor; water-cooled hydraulic station <55 °C	Pipe manufacturers & large-scale recyclers: HDPE/PP/PVC pipes, large lumps, stacked dustbins, pallets — turnkey when paired with granulator
Plastic Recycling Shredder Machine For Waste Management (GE Series)	Cost-effective economical platform; rotor widths 500–1400 mm; V-type rotor with X-shaped cutting structure; double-scissor cutting technology; DC53 blades 62–64 HRC; rubber-metal shock absorbers; 304 stainless silo with sound-insulation; WEG motor; CE & CSA certified	On-line recycling on plastic production lines — small hollow materials, online QA scrap, cost-conscious recycling operations



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