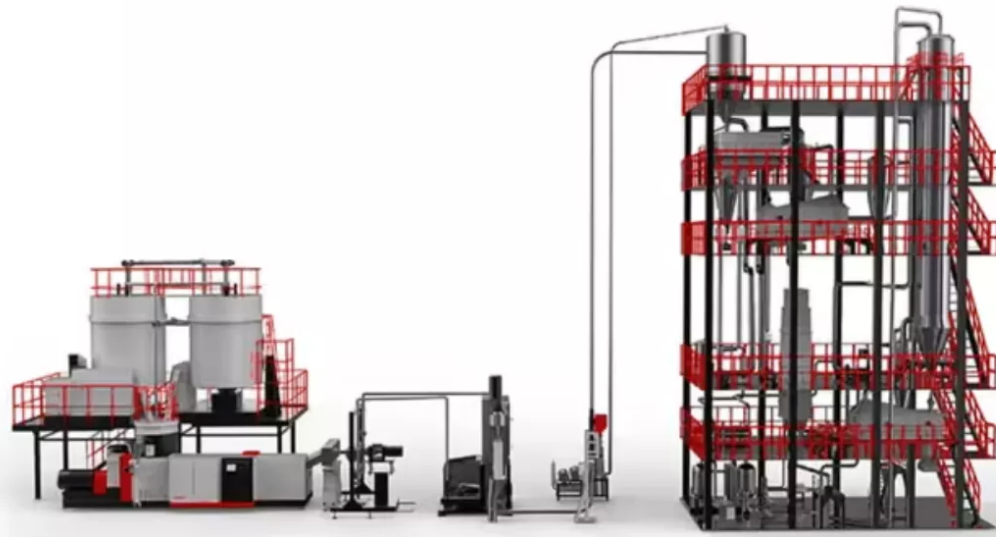




AUXILIARY MACHINE FOR PLASTIC RECYCLING

Auxiliary machines for plastic recycling are the support equipment that makes a pelletizing or extrusion line function as a complete, high-efficiency system. While the extruder or pelletizer is the core processing machine, it is the upstream, downstream, and inline auxiliary units that determine line throughput, output quality, and production uptime. Without proper dehumidification, wet regrind causes hydrolysis and surface defects in the pellet. Without melt filtration, contaminants in post-consumer streams produce off-spec product or block dies. Without a controlled cutting system, pellet geometry varies, causing handling and dosing problems. Auxiliary machines address each of these requirements as dedicated, purpose-engineered units designed to integrate directly into standard recycling and extrusion line configurations.

Torontech's auxiliary machine portfolio spans six categories covering the full recycling line ecosystem. The TT-AWPC Wood-Plastic Profile Extrusion Line processes PVC resin blended with wood flour, rice husks, or calcium carbonate into WPC decking, fencing, and profiles with integrated VOC deodorization. The Dehumidification and Drying System conditions hygroscopic resins and moist regrind to below 0.02% moisture before extrusion. The TT-EPS Foam Recycling Pelletizing Machine converts low-density expanded polystyrene foam into dense, reusable PS pellets. The TT-ASD Film and Bag Recycling Squeezer mechanically dewateres wet LDPE film and bags after washing, preparing them for direct pelletizing. The Cutting System automates pelletizer speed via die-head pressure feedback for consistent pellet geometry and uses pneumatic blade clamping for extended blade life. The TT-SCF Self-Cleaning No-Mesh Melt Filter enables continuous-duty melt filtration of highly contaminated streams without production stops for screen changes.

Complete Your Recycling Line with Torontech

A recycling line is only as productive as its least capable component. Every batch of wet film that enters the extruder undried, every contaminated melt slug that reaches the die, and every off-size pellet that jams a downstream hopper represents waste — in energy, time, and material value. Torontech's auxiliary machine portfolio is designed to close those gaps: conditioning your material before the extruder, protecting your die and screw from contamination, and ensuring consistent, marketable pellets at the line end. Whether you are building a new WPC production line, upgrading a film recycling plant, adding dehumidification ahead of a PET extruder, or eliminating screen-change downtime with a self-

cleaning melt filter, Torontech has the equipment and the world wide support network to deliver it. Contact Torontech today to discuss your line configuration, material stream, and production targets. Our plastics processing specialists will identify the right combination of auxiliary units — and back them with 20+ years of recycling line expertise.

APPLICATIONS

Applications in Industries

Plastic Film & Bag Recycling Lines The TT-ASD squeezer dehydrates wet film after washing; the Cutting System produces uniform pellets from the melt strand; and the TT-SCF filters contaminated melts — three machines that together form a complete film-to-pellet line.	EPS / Polystyrene Foam Recycling The TT-EPS foam pelletizing machine melts and re-extrudes low-density expanded polystyrene into high-density, transportable, reusable PS pellets — dramatically reducing volume and converting waste foam into sellable secondary raw material.
Wood-Plastic Composite (WPC) Manufacturing The TT-AWPC extrusion line processes PVC resin blended with wood flour, rice husks, or calcium carbonate into WPC decking, fencing, door profiles, and construction trim using VOC deodorization to meet indoor air quality requirements.	High-Contamination Plastic Recycling The TT-SCF self-cleaning melt filter removes solid contaminants from recycled melt streams without stopping the extruder for screen changes — critical for post-consumer streams where contamination levels make conventional screens impractical.

Pre-Extrusion Conditioning The dehumidification and drying system prepares hygroscopic resins (PET, nylon, ABS, PC) and moisture-laden regrind for extrusion, preventing hydrolysis, surface defects, and reduced mechanical properties in the pelletized output.	Multi-Material Pelletizing Plant Optimization Any multi-step pelletizing plant benefits from the Cutting System's die-head pressure feedback for consistent pellet geometry, combined with upstream drying and downstream melt filtration — reducing rejects and improving pellet bulk density.
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FEATURES

Why Choose Torontech for Your Auxiliary Equipment Needs?

✓ Complete Recycling Line Ecosystem Torontech supplies the full auxiliary equipment chain: upstream drying (dehumidification system), in-line processing (TT-AWPC, TT-EPS, TT-ASD), melt filtration (TT-SCF), and pellet cutting (Cutting System) — all from one supplier, one support contact.	✓ Continuous-Duty, No-Stop Operation The TT-SCF's self-cleaning, screenless filtration and the Cutting System's auto-speed control are engineered specifically to eliminate production stops, keeping your recycling line running at full output during peak production shifts.
✓ Designed for Post-Consumer Streams Every auxiliary machine in Torontech's lineup is built to handle the variability of real-world recycled plastic: contaminated melts, wet film, low-bulk-density foam, and moisture-laden regrind — not just clean, well-sorted production scrap.	✓ VOC and Environmental Compliance The TT-AWPC line includes a dedicated VOC homogenization and deodorization system for negative-pressure conveying and odor treatment, supporting WPC manufacturers who supply indoor building materials subject to VOC emission standards.

✓ Fast International Parts & Support All Torontech auxiliary machines are supported from Toronto, Ontario, with parts warehoused in North America. No ocean freight delays for wear parts, blades, or control components — minimizing planned and unplanned downtime.	✓ 20+ Years Plastics Processing Experience Torontech has been designing and supplying plastics recycling and processing equipment for over 20 years across the world. Our application engineers match the right auxiliary equipment configuration to your specific material stream and production targets.
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TECHNICAL SPECIFICATIONS

Product Comparison Table

Specification / Feature	TT-AWPC Wood-Plastic Extrusion	Dehumidification & Drying System	TT-EPS Foam Pelletizing	TT-ASD Film & Bag Squeezer	Cutting System (Pelletizer)	TT-SCF Self-Clean Melt Filter
Function / Role	WPC profile extrusion from PVC resin + wood fiber / rice husk	Dehumidify & dry pellets pre-extrusion to remove moisture	Recycle EPS/PS foam into dense pellets via extrusion	Dewater & dry wet plastic film and bags before pelletizing	Auto-control pelletizer speed; uniform pellet sizing	Continuous-duty screenless melt filtration during extrusion
Primary Input Material	PVC resin + wood fiber / rice husk / calcium carbonate	Damp/humid plastic pellets or powder	EPS, XPS, PS foam (expanded polystyrene)	LDPE / LLDPE film, bags, soft plastics (wet)	Extruded plastic melt strand	Contaminated plastic melt (PP, PE, PET, PS, ABS, etc.)

Primary Output	WPC decking, fencing, door/window profiles	Dry, moisture-free pellets or powder ready for extrusion	Dense EPS/PS re-pelletized resin for re-use	Dewatered, squeezed film ready for pelletizing	Uniform-diameter pellets	Filtered clean melt; continuous output without stop
Screw / Drive Type	Twin-screw or conical twin-screw extrusion line	—	Single-screw extruder with compression zone	Squeezer screw (mechanical dewatering)	—	Rotary disc / continuous barrel (no mesh screen)
Temperature System	Zone-controlled barrel heating	Desiccant wheel dehumidification; heated air drying	Zone-controlled barrel heating	—	—	Heated filter zone; maintains melt temperature
Continuous Operation	✓	✓	✓	✓	✓	✓ (no production stops for screen change)
Moisture / Dewatering	—	✓ (dehumidification to <0.02% moisture)	—	✓ (mechanical squeeze dewatering)	—	—
VOC / Odor Treatment	✓ (VOC homogenization deodorization bin)	—	—	—	—	—
Auto Pellet Speed Control	—	—	—	—	✓ (die head pressure feedback)	—
Pneumatic Blade Clamping	—	—	—	—	✓	—

No Mesh Screen	—	—	—	—	—	✓ (self-cleaning, screen-free)
Best For	WPC manufacturers; fencing, decking, profiles from recycled PVC + natural fiber	Pelletizing lines processing hygroscopic resins (PET, PA, ABS) or moist regrind	EPS foam recyclers; polystyrene volume reduction & densification	Film recycling lines; agricultural film; post-consumer LDPE bags	Any extrusion pelletizing line requiring consistent pellet geometry	High-contamination streams; lines requiring zero downtime for filter changes

** All units designed for integration into standard plastic recycling and extrusion lines. Throughput capacities and power requirements vary by material type, line configuration, and screw diameter. Contact Torontech for system-specific sizing and integration support.*



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