



CONICAL TWIN SCREW EXTRUDER TT-ACT

The Conical twin screw extruder TT-ACT system is a specialized and dependable solution designed for high-capacity recycling and re-pelletizing of rigid plastic scraps. It's an efficient and uninterrupted system capable of transforming rigid plastics like PP, PE, ABS, PS, PVB, and PA flakes, regrinds, and crushed plastics back into granules. This process involves melting, plasticization, vacuum degassing, and a filtration system.

APPLICATIONS

- **Rigid Plastic Recycling:** Re-pelletizes PP, PE, ABS, PS, PVB, and PA rigid plastics, including flakes, regrinds, and crushed materials.
- **Granule Production:** Converts rigid plastic scraps into uniform, high-quality granules for reuse in manufacturing processes.
- **Injection Molding Industry:** Supplies recycled pellets for producing molded parts, housings, and other injection-molded components.
- **Extrusion Applications:** Provides reprocessed pellets for extrusion lines producing pipes, profiles, and sheets.
- **Automotive & Electronics:** Recycles rigid plastic parts from vehicles and electronic housings into reusable raw materials.
- **Packaging Industry:** Reuses recycled pellets in the production of rigid containers, caps, closures, and packaging components.
- **High-Capacity Recycling Plants:** Supports continuous, large-scale recycling operations with processing outputs of up to 1800 kg/h.
- **Sustainable Manufacturing:** Promotes circular economy practices and cost savings by reusing rigid plastic waste.

FEATURES

Feeding System

FEEDING

Automatic flake dosing is achieved with an integrated screw loader and screw feeder on the single-screw extruder.

By default, flakes transfer from the loader to the feeder; an optional magnetic grid in the loader silo intercepts ferrous contaminants.

Feeder speed is governed by ABB/Schneider inverters, while a hopper level sensor enables fully automatic, demand-based feeding.

Plasticization & Degassing

PLASTICIZATION AND DEGASSING

A conical twin-screw extruder gently melts and homogenizes crushed scraps, delivering 400–2000 kg/h with a high-torque drive, bi-metal screw & barrel, and vacuum degassing.

Ceramic heaters provide stable heat input with air cooling; optional infrared heaters install quickly, heat faster, cut energy use, and boost throughput—while remaining low-maintenance and long-life.

Non-stop Piston Filter

NON-STOP PISTON TYPE FILTER

Choose a single/double-station piston screen changer or a continuous four-station setup for high filtration load.

Large active areas extend screen life; rapid on-the-fly changes keep production running and operating costs low.

Plate Type Filter

PLATE TYPE FILTER

A continuous dual-plate design ensures at least one filter remains online during changeovers.

Ring-style heaters deliver even, stable temperature for consistent melt cleanliness and quality.

Self-Clean Filter System

SELF CLEAN FILTER

Our SCF system supports continuous extrusion with heavily contaminated streams—removing up to ~5% solids.

It automatically separates paper, wood, aluminum, unmelted plastics, rubber, and more—stabilizing line uptime and pellet purity.

Water Ring Pelletizer

WATER RING PELLETIZING SYSTEM

A self-adjusting head maintains optimal blade pressure for uniform granules and longer uptime.

Blade RPM auto-tracks melt pressure, and fast blade swaps require no readjustment—cutting maintenance time.

Underwater Pelletizing

UNDER-WATER PELLETIZING SYSTEM

A highly automated solution for high-MFI materials and large capacities—complete with pelletizer, valve set, piping, dewatering vibration screen, and storage silo—for precise pellets at scale.

Vibration Drying System

VIBRATION DRY

An efficient dewatering vibration sieve, paired with horizontal centrifugal drying, yields low-energy, well-dried pellets.

Bolt-assembled (non-welded) sieves simplify future changeovers and reduce maintenance downtime.

Plastic Pellets Output

PLASTIC PARTICLES

The final product is consistent, high-quality recycled pellets—ready to be reintroduced into premium plastic manufacturing.

Packing System

PACKING SYSTEM

A drying shaker with horizontal centrifuge ensures pellets are thoroughly dried before storage.

Continuous capacity monitoring and quantitative weighing provide accurate inventory control and shipment readiness.

TECHNICAL SPECIFICATIONS

Model	Power(kw)	Productivity(kg/h)
Φ65/130	75	400-500
Φ75/150	132	700-800
Φ85/188	160	900-1000
Φ95/191	220	1000-1400
Φ105/220	315	1500-1800



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