



Compact Series Trim and Scrap Repelletizing Systems



The Compact series repelletizing system turns film scrap into high-quality granules that are easily re-introduced to your primary extrusion process. Offering systems for roll and loose scrap recovery as well as in-line trim recycling, we can design a package to meet your specific requirements.

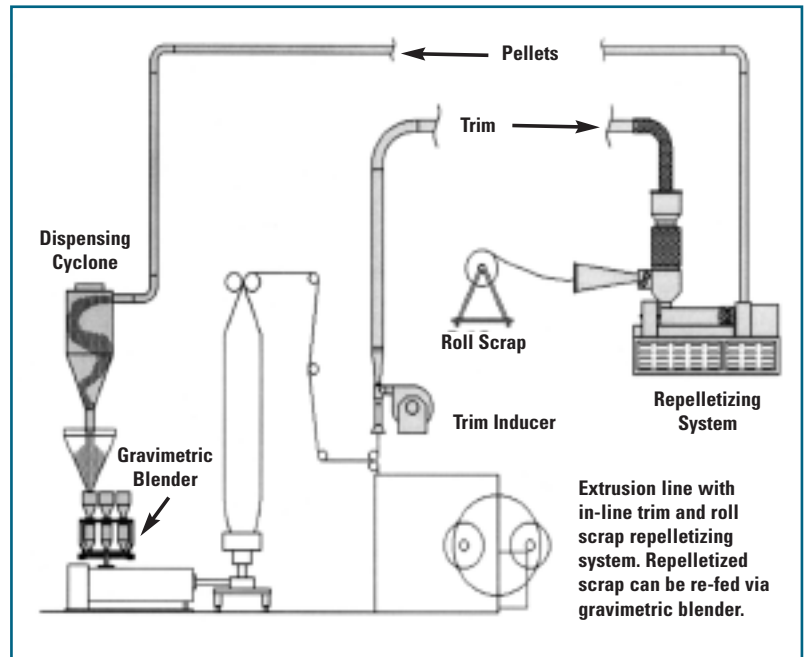
- Insures the most uniform bulk-density of scrap, compared to fluff re-feeding or densifying systems.
- Provides granules with minimum polymer degradation and contamination.
- Allows scrap to be accurately re-introduced into primary process with a gravimetric blender.
- Eliminates threading up and speed matching of trims, and the need for handling bales and storage.
- System not constrained by variations in trim width, line speed, or by additives such as slip.
- The best trim recovery technology for grooved extruders.
- Can include optional roll or loose scrap recovery.

Features:

- Operable with wide range of materials including LDPE, LLDPE, MDPE, HDPE, PP, PS, ABS, and coex blends.
- Air or water cooled pelletizing.
- Modular design with small footprint.
- Manual screenchanger.
- Automatic pellet size control.
- Low-maintenance AC drive/inverter controls.
- PLC based controls.
- Nitride hardened screw & barrel.
- Low energy requirements.

Principle of Operation:

Plastic trim and scrap is fed into the Compact extruder by induction blower and/or roll feed systems. The Compact's dual-diameter low L/D screw quickly melts, compresses and meters the material through the downstream screen pack and die. Reduced residence time and shear insure minimal polymer degradation. After exiting the die, the molten material is cut away by a radial cutter blade assembly and either air or water cooled. The variable speed AC cutter motor is closed-loop controlled by the extruder amps to maintain the desired pellet geometry.



Air Cooling:

Air cooled pelletizing is an efficient and clean process that is adequate for most polyolefins at rates up to 250 lb/hr. This system draws the cut pellets through a fan, which blows it through an appropriate length of tubing to a cyclone dispenser. For applications with higher rates or short conveying distances, a second intermediate cyclone and booster fan may be required to provide proper cooling.

Water Cooling:

Water cooling is required for some materials with narrow melting points such as PP, ABS, PS, Nylons. Utilizing a horizontal water ring, the pellets drop into a flow of cooling water and are carried to a water separating slide. This slide feeds the pellets into a high speed centrifuge dryer and ultimately into a cyclone dispenser. The cooling water is recirculated through an integral tank and heat exchanger. All water-contact surfaces are stainless steel.

Options:

- Trim pickup systems
- Sound reduction packages
- Hydraulic screen changers
- Continuous/backflush screenchangers
- Pressure monitoring and closed-loop control
- Metal detectors
- Roll Feeders

Model No.	Screw Dia.	Screw L/D	HP	Air Cool	Water Cool	Capacity lb/hr-kg/hr (ldpe)
C45	45 mm	8:1	10	Std.	Option	100-45
C50	50 mm	8:1	15	Std.	Option	130-59
C55	55 mm	9:1	20	Std.	Option	175-80
C60	60 mm	9:1	40	Std.	Option	250-113

Note: Specifications subject to changes.