

Granulate Feed System



Operation

The Granulate Feed System contains two separate hopper chambers: one for virgin resin and one for scrap fluff.

Maximum fluff refeed without bridging of pellets or fluff is accomplished in the side-by-side feed of the two materials. In the side-by-side models (OV and RT) designed for oval or rectangular throats, virgin resins or blends are kept completely separate from the scrap fluff until both enter the extruder screw. A High-Efficiency Cyclone receives fluff from a Granulator and loads it into its section of the divided hopper. Virgin resin or blends are gravity fed through the adjacent virgin chamber into the extruder throat. Fluff is auger-fed into the extruder screw while resin is gravity fed to satisfy extruder throughput demand.

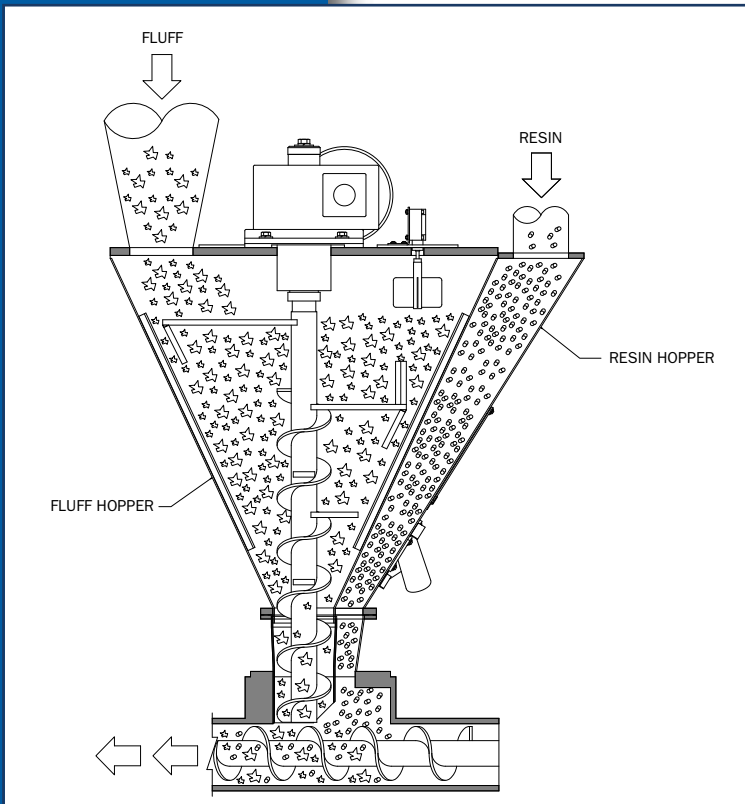
In the models designed for round or square throats (RD and SQ), virgin resin and fluff are combined in the lower part of the hopper before feeding into the extruder. A High-Efficiency Cyclone receives fluff from a Granulator and loads it into the fluff hopper. Virgin resins or blends are gravity fed through the adjacent virgin chamber and into the lower chamber. From the lower combining chamber, fluff is auger-fed into the extruder screw while resin is gravity-fed to satisfy extruder throughput demand.

In all models, a variable speed motor linked to the speed of the extruder drives the auger. Thus, the Granulate Feed System follows any changes in extruder throughput. This eliminates inconsistent feeding and related extruder surging. Agitator arms prevent bridging and "loss of feed" in the extruder.

Virgin flow automatically compensates for the presence or absence of fluff with no loss of production. An internal limit switch in the fluff hopper slaves the unit to a Granulator Roll Feeder, allowing edge trim and roll scrap to feed simultaneously. The film reclaim operation becomes a closed loop by automatically adjusting the fluff feeding to the extruder.

Features

- Direct edge trim and roll scrap recycling without densifying or pelletizing.
- Closed loop film reclamation for reduced risk of contamination.
- Consistent ratio of virgin resin to reclaimed fluff.
- Custom fitted to the extruder throat to provide maximum reclaim benefits without surging or "loss of feed." (oval or rectangular throat preferred)
- Simultaneous feed of edge trim and roll scrap.



The Granulate Feed System from Precision AirConvey Corporation.



Related Equipment Available

- Fluff Crammer for 100% reclaim.
- In-line Trim Repelletizing System.
- In-line Cutters and Granulators
- Complete Reclaim Systems

Model No.	Extruder Size		Reclaim Rate		Drive hp	Approx. Dimensions	
	inch	mm	lb/hr	kg/hr		height	cone diameter
GFS25RD GFS25OV GFS25SQ GFS25RT	2 1/2	65	75	30	1 1/2	58" 50" 58" 50"	37" 37" 37" 37"
GFS35RD GFS35OV GFS35SQ GFS35RT	3 1/2	90	150	65	1 1/2	58" 50" 58" 50"	37" 37" 37" 37"
GFS45RD GFS45OV GFS45SQ GFS45RT	4 1/2	120	300	135	1 1/2	58" 50" 58" 50"	37" 37" 37" 37"
GFS60RD GFS60OV GFS60SQ GFS60RT	6	150	600	270	5	58" 50" 58" 50"	37" 37" 37" 37"
GFS80RD GFS80OV GFS80SQ GFS80RT	8	200	1200	540	5	58" 50" 58" 50"	37" 37" 37" 37"

RD = round OV = oval SQ = square RT = rectangular

Material Type:

LDPE
LLDPE
MDPE
HDPE
HIPS
ABS
PP
PET

The optional control panel for the PAC Granulate Feed System includes meters that display the rpm of the fluff auger and the load on the auger drive.



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