

Granulating Film Pelletizer

SGFP-150

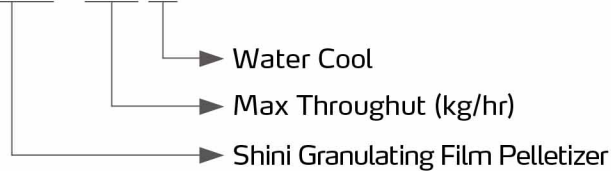


Refer carefully to this manual before operation.

SGFP Series

■ Coding Principle

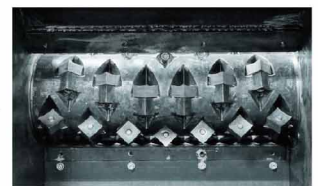
SGFP - xxx W



SGFP-150W

■ Features

- Integrated design of shredding, extrusion, and pelletizing, with a compact structure.
- Equipped with HMI+PLC+inverter, the intelligent system matches feeding, extrusion, and pelletizing smoothly.
- Real time detection of die pressure fluctuations, auto adjustment of pelletizing speed to ensure perfect pellets size.
- Integrated multi-stage temperature control, simple operation interface, real-time monitoring of zone temperature.
- It has overload, over temperature, and over pressure protection functions.
- Specially designed variable diameter short screws are particularly suitable for processing films and sheet materials, with uniform melting and mixing to minimize material degradation.
- The manual screen changer design allows for quick replacement of the filter screen. Equipped with dual filters, one for use and one for spare.
- The temperature range is 100~250°C.



Crush Shaft



PE



Milky white

■ Application

SGFP series comes in air cool and water cool models. Designed for recycling HDPE, MDPE, LDPE, LLDPE, and plastic films containing small amounts of metallocene, PP, PA6, and Caco3.

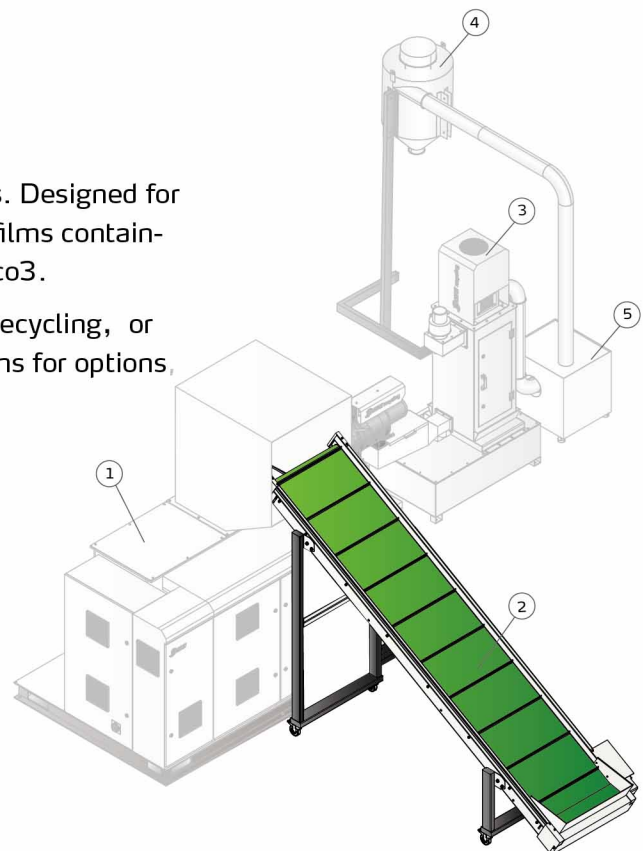
SGFP is suitable for offline waste films/rolls central recycling, or online trims recycling. There are several configurations for options, based on actual working conditions.

■ Option

● BCF-5080

BCF-5080 help feeding of loose films into the shredder chamber, reducing the labor intensity of operator. The start and stop are automatically controlled by a level sensor in feedbox.

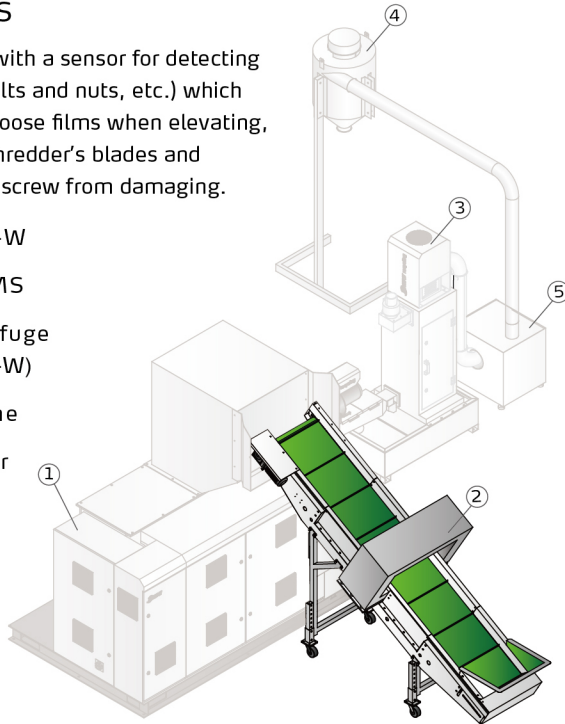
1. SGFP-W
2. BCF-5080
3. Centrifuge (SGFP-W)
4. Cyclone
5. Blower



● PNL-MS

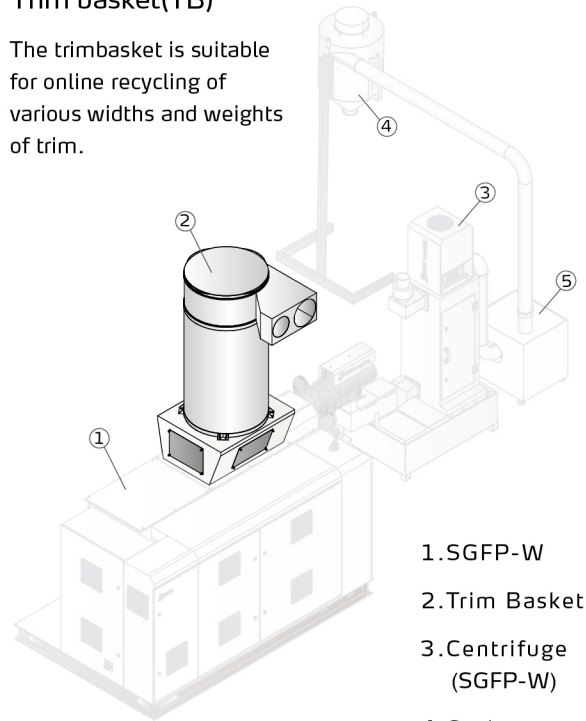
Upgrade with a sensor for detecting metals(bolts and nuts, etc.) which hiding in loose films when elevating, prevent shredder's blades and extruding screw from damaging.

- 1.SGFP-W
- 2.PNL-MS
- 3.Centrifuge (SGFP-W)
- 4.Cyclone
- 5.Blower



● Trim basket(TB)

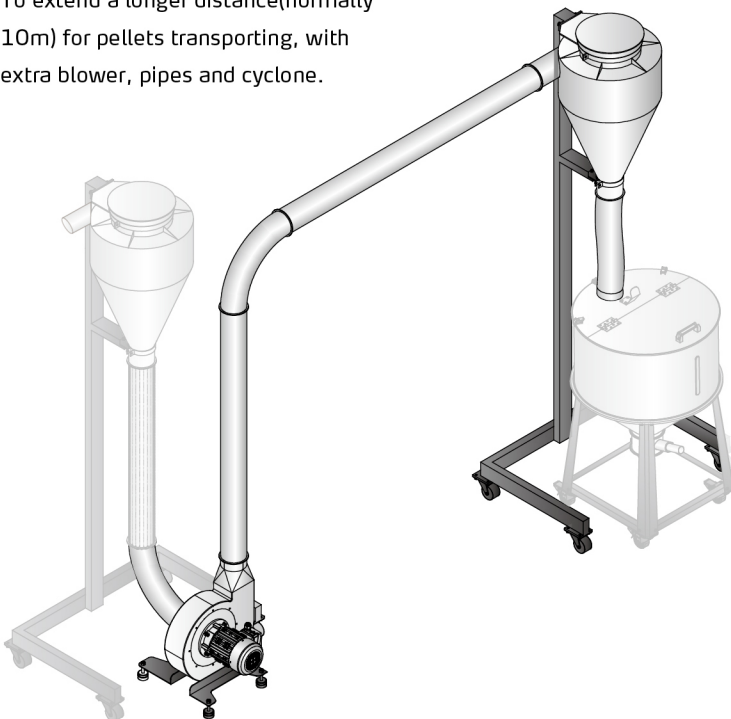
The trimbasket is suitable for online recycling of various widths and weights of trim.



- 1.SGFP-W
- 2.Trim Basket
- 3.Centrifuge (SGFP-W)
- 4.Cyclone
- 5.Blower

● 2nd Stage Convey(2C)

To extend a longer distance(normally 10m) for pellets transporting, with extra blower, pipes and cyclone.



● MST-200P

Made of stainless steel, equipped with 4 casters, and a 1.5 inch suction tube at the bottom.



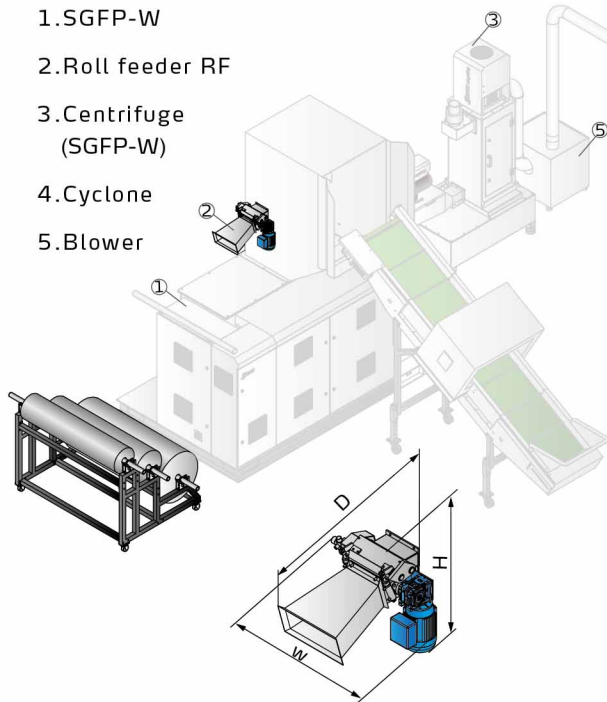
Model	Capacity (kg)*	(WxDxH)(mm)
MST-200P	200	910x910x1170

Note: *Volume definition is based on bulk density 0.65kg/L.

SGFP Series

● Rollfeed(RF)

The Rollfeed is suitable for feeding rolls into the shredder chamber. Equipped with a film roll frame, max width 1.4m. 3-6kg/cm² compressed air is needed.

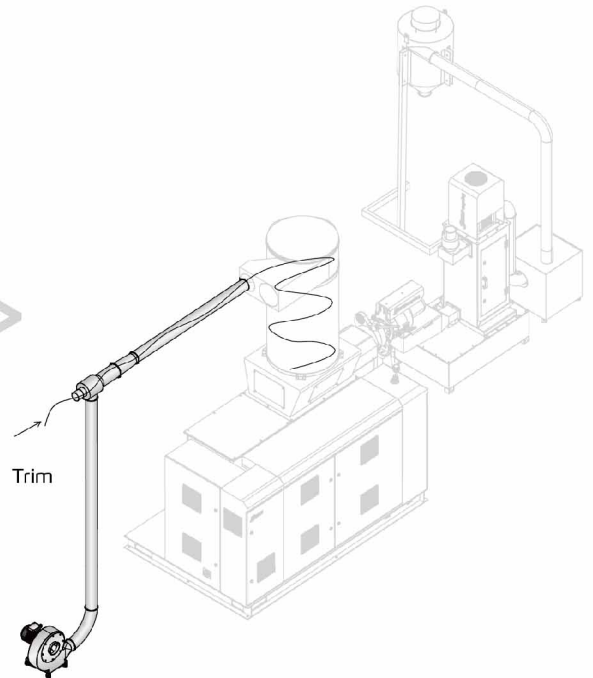


Rollfeed

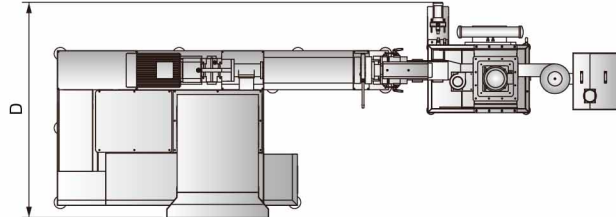
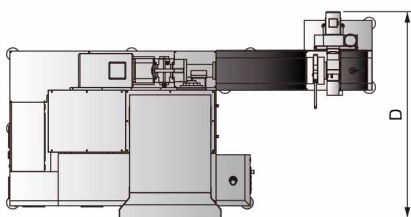
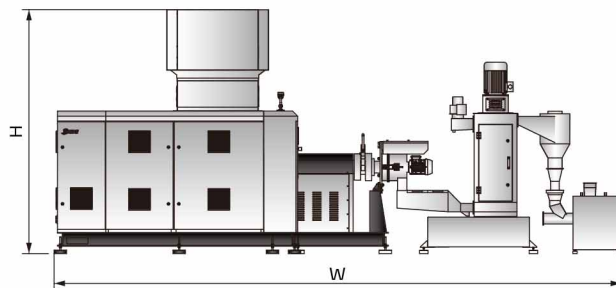
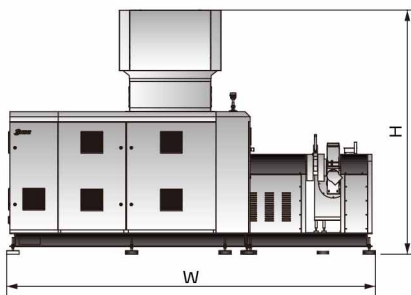
Model	Motor Power(kW)	W(mm)	D(mm)	H(mm)
RF	0.37	586	487	445

● Trim convey(TC)

Trims are transported into trim basket with venturi principle, trims' width should under 5cm. Trim convey function must work with trim basket(TB).



■ Outline Drawings



SGFP

SGFP-W

■ Specifications

Model	SGFP-120	SGFP-120W	SGFP-150W
Extruder (kW)	30	30	37
Shredder (kW)	18	18	18
Auger (kW)	3	3	3
Dicer (kW)	0.55	0.55	0.55
Blower (kW)	2.2×2	2.2	2.2
Hydraulic (kW)	2.2	2.2	2.2
Pump (kW)	/	0.75	0.75
Centrifuge(kW)	/	5.5	5.5
Heat Powe(kW)	17	17	17
Heat Zones	6	6	6
Total Power(kW)	76	80	87
Screw Diameter (mm)	60	60	70
Noise dB (A)	85-95	85-95	85-95
Pellet Cooling	Air cool*	Water cool	Water cool
Throughput(kg/hr)	60-90	90-120	120-150
Screen Filter	80 mesh		
BCF-5080	○	○	○
PNL-MS	○	○	○
TB	○	○	○
RF	○	○	○
2C	●	○	○
TC	○	○	○
MST-200P	○	○	○
Dimension	W (mm)	4347	6685
	D (mm)	2429	2536
	H (mm)	2875	2875
Net Weight (kg)	3985	4460	4560

- Note: 1)Throughput data is based on PE film test.
 2)Operating noise varies depending on material and extrusion speed.
 3)Machine power: 3 phase 400VAC 50Hz.
 4)Recycle water in normal temp. is required for gearbox cooling. Water in 10~25℃, 50~100L/min is required for water tank cooling.
 5)* 2nd stage convey.
 6)●: Standard, ○: Option, -: None.

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