

## Film Pelletizer

SFP-45

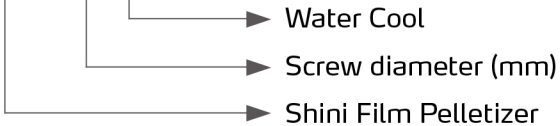


Refer carefully to this manual before operation.

# SFP Series

## Coding Principle

SFP - xx W



## Features

- Equipped with HMI+PLC+inverter, integrated with an intelligent control system.
- Monitoring die pressure fluctuations, auto adjustment of pelletizing speed to ensure uniform pellet size.
- Allows for pre-setting extrusion load and automatically adjusts the feeding speed to ensure uniform feeding and extrusion.
- 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.
- Manual screen changer design with dual filters, one for use and one for spare.
- Temperature range is 100~250°C.
- Equip with remote function for helping customer daily maintenance, troubleshooting and software upgrade



SFP-45

Extruder alarm			Dicer Scaling		
Stop	72	A			
High	55	A			
Low	0	A			
Pressure alarm					
Stop	220	Bar	180	90	Bar
High	160	Bar	0	20	%
Low	0	Bar	10	%	30

Parameter screen

## Application

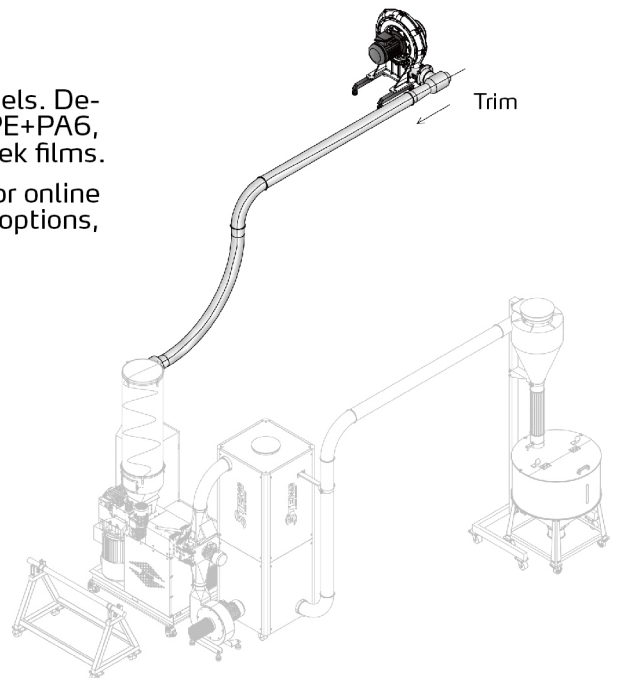
The SFP series comes with air-cool and water-cool models. Designed for recycling PE(HD, MD, LD, LLD), PE+PA6, PE+PP10%, PE+Caco3, metallocene, and DuPont Tyvek films.

SFP is suitable for offline waste film central recycling, or online trims recycling. There are several configurations for options, based on working conditions.

## Options

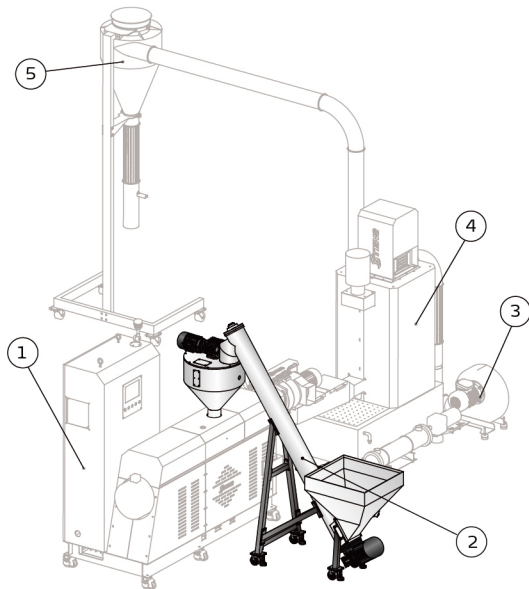
### Trim Convey (TC)

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

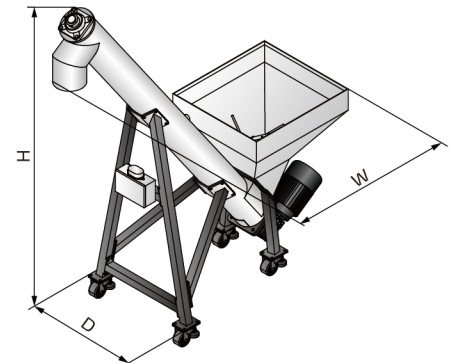


### ● Flake Feeder(FF)

FF is suitable for flakes feeding. FF is designed for whom has a film crusher already. Optioned for SFP-60/60W/70/70W.



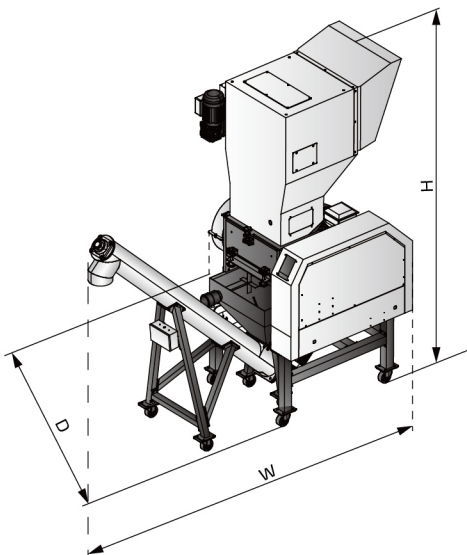
- 1.SFP-W
- 2.FF
- 3.Blower
- 4.Centrifuge(for SFP-W)
- 5.Cyclone



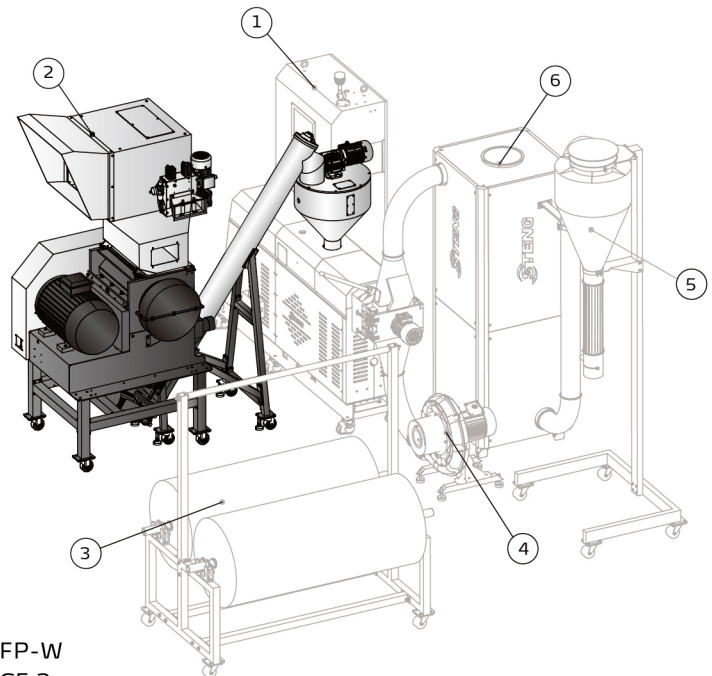
Model	Power (kW)	Volume (L)	H(mm)	D(mm)	W(mm)
FF	0.75	100	1925	630	1650

### ● RGF-3

RGF-3 includes a rollfeed, a crusher, and a feeding machine. Suitable for automatic rollfeeding, crushing, and flakes loading, with reserved feeding port for loose films. Built in a level sensor, for automatic start and stop. Optioned for SFP-60/60W/70/70W.



- 1.SFP-W
- 2.RGF-3
- 3.Rolling material rack
- 4.Blower
- 5.Cyclone
- 6.Relay cyclone(for SFP air-cool)

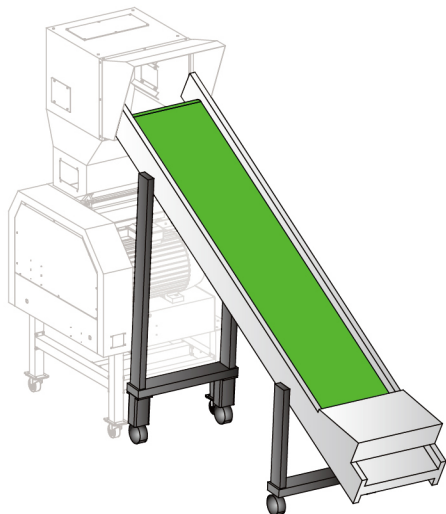


Model	Power(kW)	Volume(L)	(H×D×W)(mm)	Noise dB(A)
RGF-3	12	80	2293×1033×2256	90~110

# SFP Series

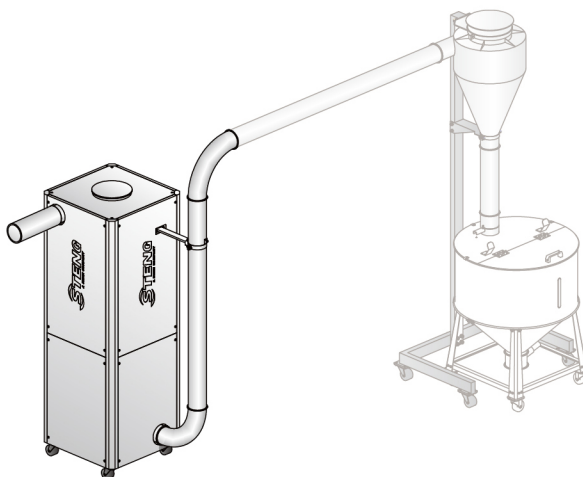
## ● BCF-3650

BCF-3650 should work with RGF-3, for feeding loose film into the crusher chamber, reducing the labor intensity of operator. The start and stop are automatically controlled by a level sensor.



## ● RC

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

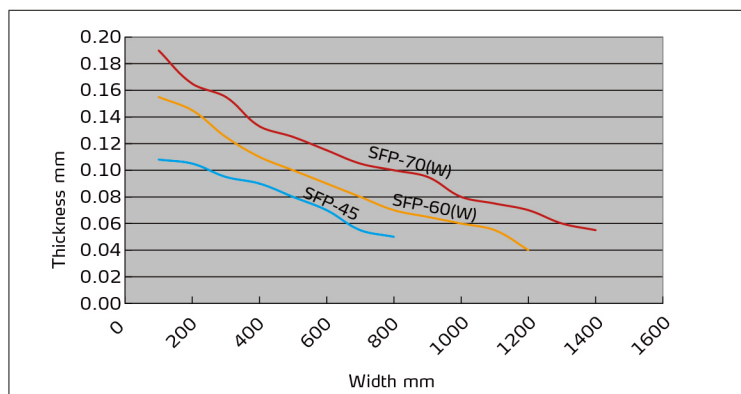
Note: \*Volume definition is based on bulk density 0.65kg/L.

## ● Trimbasket+Rollfeed(TB+RF)

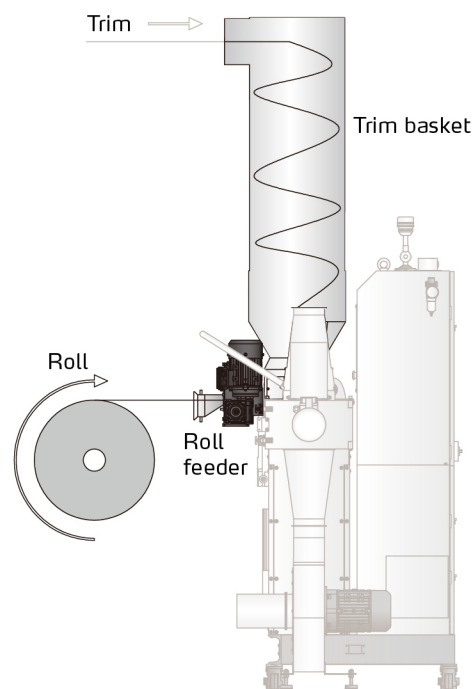
The trimbasket is suitable for online trim recycling. The trim width should not exceed 5cm. SFP-45 standard equipped with TB.

The Rollfeed is suitable for feeding film roll into the screw. Equipped with a film roll frame. 3-6kg/cm<sup>2</sup> compressed air is needed.

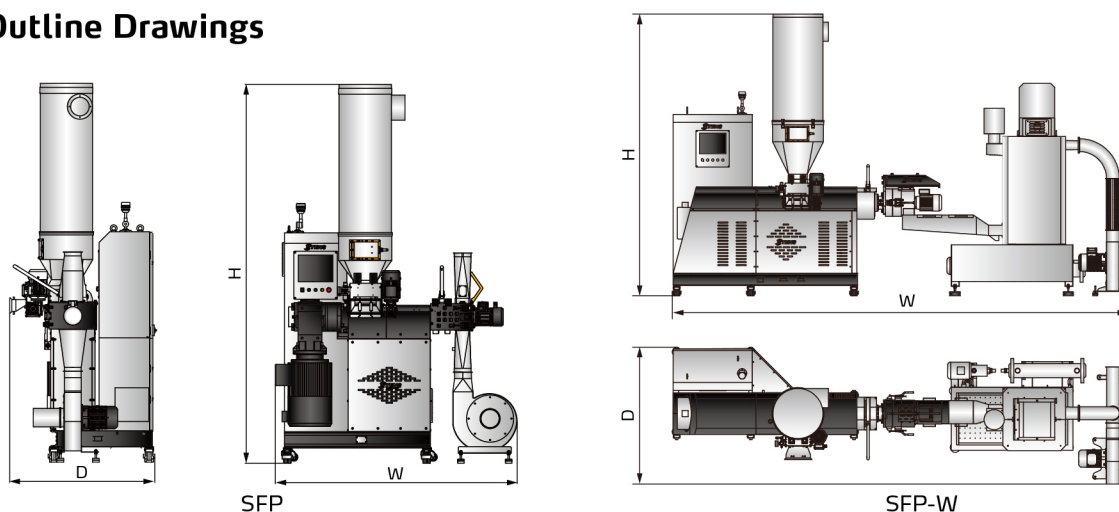
When select TB+RF, the applicable film roll refer to the following curve.



Note: The curves are based on PE testing and are for reference only. The final specifications should be based on the actual applicable specifications.



## Outline Drawings



## Specifications

Model	SFP-45	SFP-60	SFP-60W	SFP-70	SFP-70W
Extruder (kW)	11	15	15	37	37
Dicer (kW)	0.55	0.55	0.55	0.55	0.55
Blower (kW)	2.2	2.2×2	2.2	2.2×2	2.2
Pump (kW)	/	/	0.75	/	0.75
Centrifuge (kW)	/	/	5.5	/	5.5
Heatging zones	3	3	3	6	6
Heater(kW)	6	7	8	17	17
Total(kW)	20	27	32	57	63
Screw dia.(mm)	45	60	60	70	70
NoisedB (A)	85-95	85-100	85-95	85-95	85-95
Pellet Cooling	Air cool	Air cool	Water cool	Air cool	Water cool
Throughput(kg/hr)	10~30	50~70*	50~70*	60~90	120~150*
Filter Screen	100 mesh				
TB	●	●	●	○	○
RF	○	○	○	○	○
RGF-3	-	○	○	○	○
FF	-	○	○	○	○
BCF-3650	-	○	○	○	○
RC	○	●	○	●	○
TC	○	○	○	○	○
MST-200P	○	○	○	○	○
Dimensions	W (mm)	1806	2590	4811	3835
	D (mm)	1035	1468	1546	1513
	H (mm)	2854	2584	2584	3030
Net Weight (kg)	701	830	1100	1430	1700

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 SFP-70/70W gearbox cooling. Water in 10~25°C,  
50~100L/min is required for SFP-W water tank cooling.  
5)\*Optional with FF or RGF-3 for max throughput.  
6)●: Standard, ○: Option, -: None.

## Shini Group

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recycling machine in Southeast  
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### Factories:

- Taiwan
- Dongguan
- Pinghu
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