



Model FSG-300
Shown with optional roll feed and relief head

SPECIALTY GRANULATOR FOR FILM EXTRUSION

FSG Series beside-the-line granulators provide efficient, uniform regrinding of thin gauge film scrap.

The FSG granulators are designed to be used as part of a complete in-line automatic scrap recycling system for thin gauge film extrusion processes. The three-way hopper design allows the granulator to accommodate edge and bleed trims, off-spec roll scrap and hand-fed scrap materials simultaneously.

UNIQUE CUTTING CHAMBER SIMPLIFIES CLEAN-OUT

Conair's FSG Series of film scrap granulators offer a slant-knife open rotor design, providing scissor cutting action for fast, efficient processing. This technique is used for maximum bulk density, higher throughputs and generates less noise and fines.

The standard (2) fixed bed knife design along with either 3 or 5 rotating rotor knives assure a high quality of ground scrap consistency. The rotor knives are adjustable to ensure a fixed gap between the knives and the screen, eliminating screen clogging and minimizing heat build-up.

The innovative cutting chamber features a swing-open removable screen, cradle and scrap discharge bin. This design provides wide open access. Rotor access is straight-in versus accessing from underneath, greatly simplifying clean-out and blade maintenance. This rotor design saves both time and money.

■ Easy access for cleaning

FSG Series granulators offer a swing-open cradle screen for the industry's fastest rotor access and lowest in-feed height. A standard electric jack screw is included for ease of access for cleaning and maintenance of the cutting chamber.

■ Quiet operation

The FSG Series granulators come with standard double-wall sound proof hoppers. An optional integral sound enclosed base can be added to reduce noise as well.

■ Integral control panel

The control panel comes equipped with all starters and controls for the granulator, fluff outlet blower, electric jackscrew, optional roll feeder and trim inducer blower controls when purchased as part of a complete in-line scrap recycling system.

■ Optional roll feeder

Reintroduction of roll scrap is achieved with the attachment of the optional RFL series roll feeders. The standard roll feeder is designed with application-specific rolls that provide a strong pull on the film, without wrapping. They are available in several sizes with 1/2 Hp {0.37 kW} single drive variable speed motors that run 13-65 ft/min {4-20 meters/min}.

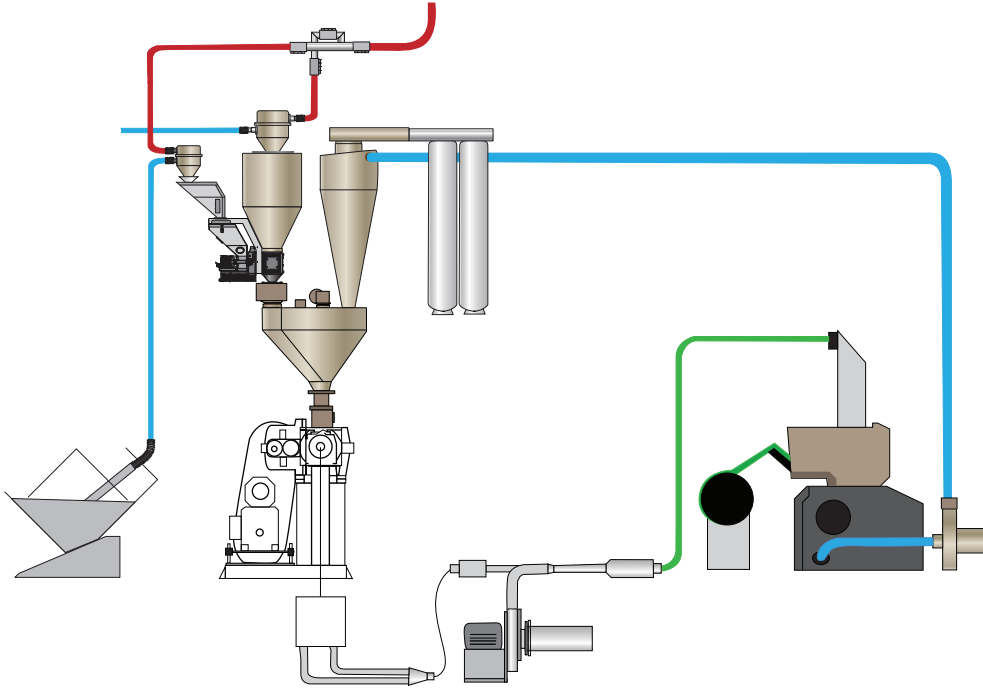
■ Standard fluff conveying blowers

The ground scrap material is taken away from the granulator by the fluff conveying blower, available in four (4) different sizes to accommodate any rate and conveying distance required.



ACCESSORIES/OPTIONS

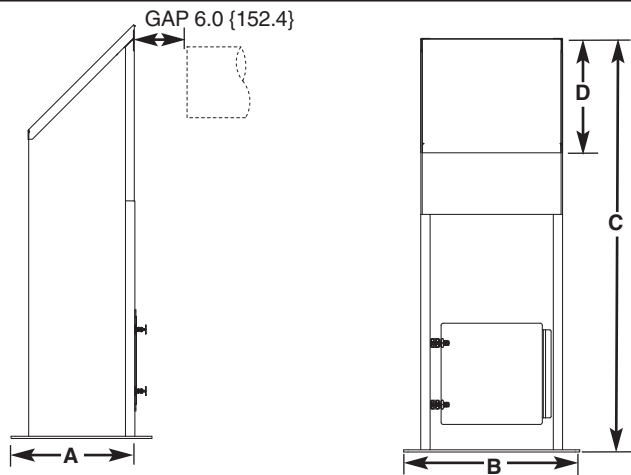
FSG SERIES MODELS



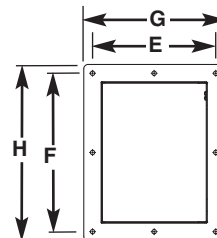
A new integrated film-scrap reclaim system, designed and built entirely by Conair, recovers edge trim and other scrap, grinds it, and then reintroduces it to the extruder without hang-ups, surging and clumping. It's an easy, efficient way to improve profitability. Conair trim systems handle all kinds of film and sheet waste and return it directly to the extruder at rates of 25% or more. System costs are lower than re-pelletizing or scrap densification, and the material is not subject to an additional heat history.

Relief Head

FSG MODELS	FSG-100	FSG-150	FSG-300	FSG-400	FSG-500	FSG-750	FSG-1000	FSG-1250	FSG-1600
Relief head selection									
RH-1	Standard	Standard	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RH-2	N/A	N/A	Standard	Standard	Standard	Standard	N/A	N/A	N/A
RH-3	N/A	N/A	N/A	N/A	N/A	N/A	Standard	Standard	Standard



The relief head is designed to separate the trim scrap from the conveying air stream. This allows the trims to drop into the granulator feed hopper while the conveying air is dispersed.



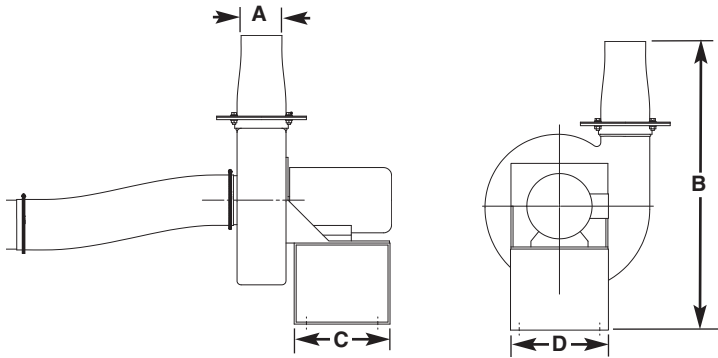
RELIEF HEAD MODEL	RH-1	RH-2	RH-3
Dimensions inches {mm}			
A - Overall depth	10.0 {254}	12.0 {304.8}	18.0 {457.2}
B - Overall width	12.0 {304.8}	16.0 {406.4}	20.0 {508}
C - Overall height	45.0 {1143}	47.0 {1193.8}	47.0 {1193.8}
D - Opening height	20.0 {508}	20.0 {508}	20.0 {508}
E - Flange depth of mounting holes	12.0 {304.8}	14.0 {355.6}	20.0 {508}
F - Flange width of mounting holes	14.0 {355.6}	18.0 {457.2}	22.0 {558.8}
G - Flange plate depth	14.0 {355.6}	16.0 {406.9}	22.0 {558.8}
H - Flange plate width	16.0 {406.4}	20.0 {508}	24.0 {609.6}
Weight lb {kg}			
Shipping	50 {22.7}	60 {27.2}	75 {34}



ACCESSORIES/OPTIONS

FSG SERIES MODELS

Fluff Blower



After the cutting chamber, material passes through a screen designed to provide maximum throughput and bulk density for the specific application and material. The ground scrap material is then taken away by the fluff conveying blower. Standard fluff conveying blowers on the outlet are available in four (4) different sizes to accommodate any rate and conveying distance required.

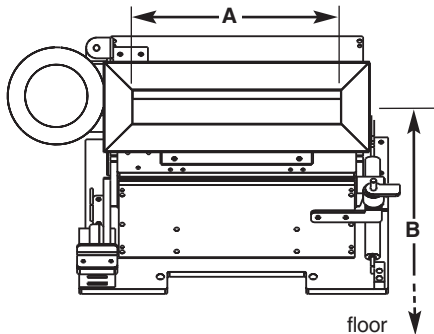
Fluff blower model	FB-1	FB-1.5	FB-3	FB-7.5
Performance characteristics				
Motor hp {kW}	1 {0.75}	1.5 {1.12}	3 {2.24}	7.5 {5.60}
Throughput lbs/hr {kg/hr}	200 {90.7}	325 {147.4}	500 {226.8}	1000 {453.6}
Dimensions inches {mm}				
A - Outlet diameter	4.0 {101.6}	5.0 {127}	6.0 {152.4}	8.0 {203.2}
B - Overall height	27.75 {704.85}	34.38 {873.1}	30.38 {771.5}	31.38 {796.9}
C - Mounting pattern width	5.0 {127}	8.75 {222.3}	8.75 {222.3}	8.75 {222.3}
D - Mounting pattern depth	7.5 {190.5}	9.875 {250.8}	9.875 {250.8}	9.875 {250.8}
Mounting hole diameter (all 4)	0.438 {11.11}	0.438 {11.11}	0.438 {11.11}	0.438 {11.11}
Voltage				
460V/3ph/60Hz	Standard	Standard	Standard	Standard
575V/3ph/60Hz	Option	Option	Option	Option
400V/3ph/50Hz	Option	Option	Option	Option

MODELS	FSG-100	FSG-150	FSG-300	FSG-400	FSG-500	FSG-750	FSG-1000	FSG-1250	FSG-1600
Fluff blower selection									
FB-1	Standard	Standard	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FB-1.5	Option	Option	Standard	Standard	N/A	N/A	N/A	N/A	N/A
FB-3	N/A	N/A	Option	Option	Standard	N/A	N/A	N/A	N/A
FB-7.5	N/A	N/A	N/A	N/A	Option	Standard	Standard	Option	Option

Roll Feed

Conair roll feeds direct extruded plastic film into the cutter housing of a granulator. The roll feed is ideally suited for roll scrap 10 mil to 150 mil thick and for edge trims from 1 to 23 inches {25 to 584 mm} wide, fed at speeds from 15 to 300 feet per minute {4.5 to 91 meters/min.}. The roll feed features automatic take-up using friction slip to eliminate the dancer, frequency controlled motor, easy trim insertion, simple trim tensioning and pivoting, no-tools access.

MODELS	FSG-100	FSG-150	FSG-300	FSG-400	FSG-500	FSG-750	FSG-1000	FSG-1250	FSG-1600
Roll feeder selection									
RFL-30	Option	Option	N/A	N/A	N/A	N/A	N/A	N/A	N/A
RFL-45	N/A	N/A	Option	Option	Option	N/A	N/A	N/A	N/A
RFL-60	N/A	N/A	N/A	N/A	N/A	Option	Option	Option	Option



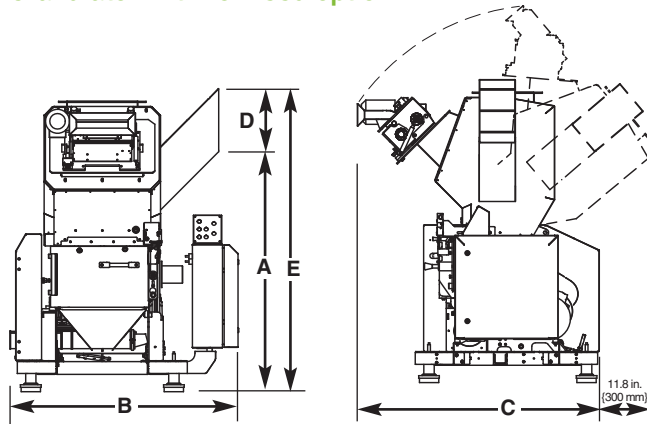
MODEL	RFL - 30	RFL - 45	RFL - 60
Dimensions inches {mm}			
A - Inlet width	11.8 {300}	17.7 {450}	23.6 {600}
B - Inlet height (from floor)	61 {1549}	61 {1549} (FSG300,400) 67 {1702} (FSG500)	67 {1702} (FSG750-1000) 70 {1778} (FSG1250-1600)



FSG SERIES MODELS

SPECIFICATIONS

Granulator with roll feed option



FEATURES

- Open rotor with scissor cutting slant knives
- TEFC motor
- Hopper soundproofing
- Two bed knives
- Hopper jackscrew device for opening cutting chamber
- Hand-feed port
- Mild steel construction
- Regrind conveying fan
- Electrical control panel

MODELS	FSG-100	FSG-150	FSG-300	FSG-400	FSG-500	FSG-750	FSG-1000	FSG-1250	FSG-1600
Performance characteristics									
Maximum throughput* lb/hr {kg/hr}	100 {45}	150 {68}	300 {136}	400 {181}	500 {227}	750 {340}	1000 {454}	1250 {567}	1600 {726}
Super tangential cutter chamber opening inches {mm}	10 x 12 {254 x 305}	10 x 12 {254 x 305}	10 x 18 {254 x 457}	10 x 24 {254 x 610}	14 x 18 {356 x 457}	14 x 24 {356 x 610}	14 x 36 {254 x 914}	18 x 36 {457 x 914}	18 x 48 {457 x 1219}
Motor power† Hp {kW}	7.5 {5.6}	10 {7.5}	15 {11.2}	15 {11.2}	25 {18.6}	40 {29.8}	48 {35.8}	50 {37.3}	75 {55.9}
Screen hole sizes inches {mm}	3/16 {5}	3/16 {5}	3/16 {5}	3/16 {5}	3/16 {5}	3/16 {5}	3/16 {5}	3/16 {5}	3/16 {5}
Optional screen hole sizes inches {mm}	1/8 {4}	1/8 {4}	1/8 {4}	1/8 {4}	1/8 {4}	1/8 {4}	1/8 {4}	1/8 {4}	1/8 {4}
	1/4 {6}	1/4 {6}	1/4 {6}	1/4 {6}	1/4 {6}	1/4 {6}	1/4 {6}	1/4 {6}	1/4 {6}
Knives									
Standard number of bed knives	2	2	2	2	2	2	2	2	2
Standard number of rotor knives	3	3	3	3	5	5	5	5	5
Dimensions inches {mm}									
A - Height to hopper infeed	54.8 {1392}	54.8 {1392}	54.8 {1392}	54.8 {1392}	57.8 {1470}	57.8 {1470}	57.8 {1470}	58.7 {1490}	58.7 {1490}
B - Width	44.9 {1141}	44.9 {1141}	50.8 {1291}	56.7 {1441}	52.8 {1340}	58.7 {1490}	70.5 {1790}	64.6 {1640}	76.4 {1940}
C - Depth	67.1 {1704}	67.1 {1704}	67.1 {1704}	67.1 {1704}	76.0 {1930}	76.0 {1930}	76.0 {1930}	80.3 {2040}	80.3 {2040}
Feed hopper opening - width	10 {254}	10 {254}	10 {254}	10 {254}	10 {254}	10 {254}	10 {254}	10 {254}	10 {254}
D - Feed hopper opening - height	8 {203}	8 {203}	8 {203}	8 {203}	8 {203}	8 {203}	8 {203}	8 {203}	8 {203}
E - Overall height	66.3 {1685}	66.3 {1685}	66.3 {1685}	66.3 {1685}	73.6 {1870}	73.6 {1870}	73.6 {1870}	88.2 {2240}	88.2 {2240}
Weight lb {kg}									
Shipping	4167 {1890}	4167 {1890}	4398 {1995}	4839 {2195}	5556 {2520}	6327 {2870}	6878 {3120}	13889 {6300}	17130 {7770}
Noise level†									
With standard hopper soundproofing	90 to 95 dbA								
With optional base soundproofing	80 to 85 dbA								

OPTIONS

- Special paint
- Special voltages
- Base soundproofing
- Inducer blower controls
- Air relief head
- RFL Series roll feeder
- Carbide coated knives
- Third bed knife

SPECIFICATION NOTES

* Throughputs are provided as a capacity guideline only. Throughput will vary according to the size, shape, thickness and properties of the material to be cut, as well as the desired size of the granulate. Consult Conair for a material test or help determining the correct granulator model for your application.

† Noise level will vary according to material type being processed and the granulator configuration. These ranges are based on tests using SPI standards.

Specifications may change without notice. Check with a Conair representative for the most current information.

