



## Sound-proof Central Granulator

SG-3650

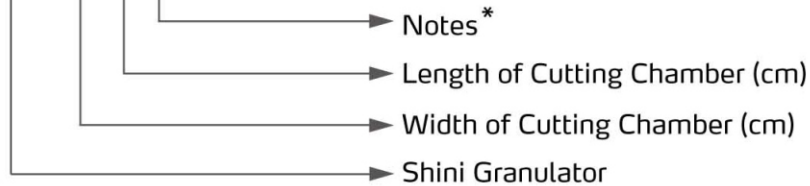


Refer carefully to this manual before operation.

# SG-23/30/36

## ■ Coding Principle

SG - xx xx x



Note: \*

CE=CE Conformity      F=Fiber Reinforced Plastics  
R=For Stainless Steel made Feed Port and Storage Tank  
FAD=Full-receiver Alarm Device



SG-2348

## ■ Features

### Standard configuration

- SG-23 series adopts staggered blades, SG-30 and SG-36 series adopts paddle blades .
- Staggered blades design can decentralize working load when granulating to increase cutting efficiency, Blade retainer is designed for quick blade replacement without readjustment.
- Paddle blades design allows increased efficiency and reduced energy consumption.
- Blades adopt imported steel to ensure high quality and high durability.
- Full-closed design and sound-proofing ensure low noise level.
- Equipped with electrical current relay, motor overload protector and multiple safety devices.
- Cyclone dust separator can effectively remove the air from regrind and facilitates the material collecting.
- Dust collecting bag brings easiness for dust cleaning and reduce contamination.
- Regrind conveying system as standard.
- SG-36 series adopts anti-vibration pads to absorb vibration during operation.
- For SG-30/36,cooling water device at the rear plate of the cutting chamber can effectively cool down the cutting chamber and prevent materials from melting-up.

### Accessory option

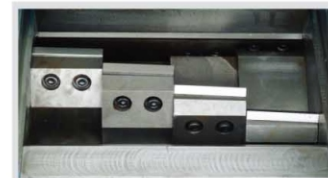
- For granulating fiber reinforced material, increase fiber reinforced granulator model for choose. Adopt surface-hardening treatment on the material contacting components. SG-30 and SG-36 fiber reinforced model blade material used V-4E joint with S50C.
- Dust separator, full-receiver alarm device and special screens.

## ■ Application

SG-23/30/36 series sound-proof central granulators are suitable for centralized recycling of wastes or rejected parts from injection molding, blow molding or extrusion lines. The machines feature optimized structure, easy operation, and quick blades replacement. Staggered rotating blades can easily grab and cut materials. This design makes the machine work more efficiently and can reduce waste of energy to the minimum. This granulator has various models with wide application ranges to meet different customers' demand.



Paddle Blades



Staggered Blades



Presetting Knife Jig

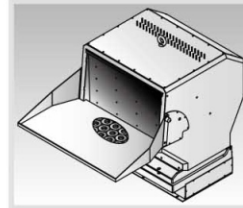
## Options

### Full-receiver Alarm Device



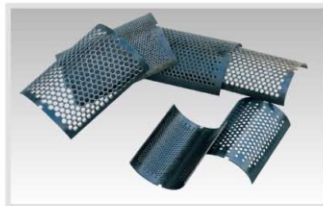
Full-receive alarm device helps to realize unmanned operation and no materials will be wasted. Whenever the regrind level reaches the motor position, the machine will be forced to stop and be cut off via it is sensor, thus stop the granulator and warn the user by sounding an alarm. Applicable to SG-23/30/36/43/50/70.

### Feed Hopper with Magnet



Feed hopper with magnet is used to take out metal craps and impurities in the material.

### Special Screens



Special screen mesh sizes:  $\Phi 4, \Phi 6, \Phi 10, \Phi 12$  (mm) for SG-23/30 series,  $\Phi 8, \Phi 12, \Phi 17, \Phi 25$  (mm) for SG-36 series.

### Feeding Hopper for Conveyor



Material feeding for large granulators is quite a difficult matter. They are generally installed at a lower place or a platform must be built for material feeding. Shini particularly designed the belt conveyor to easily convey the material into the cutting chamber of SG-36 series.

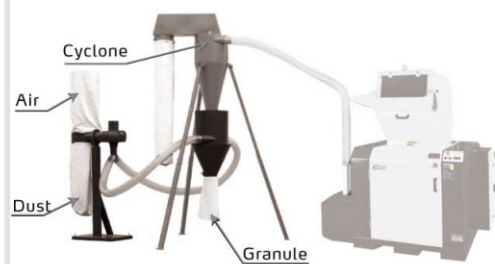
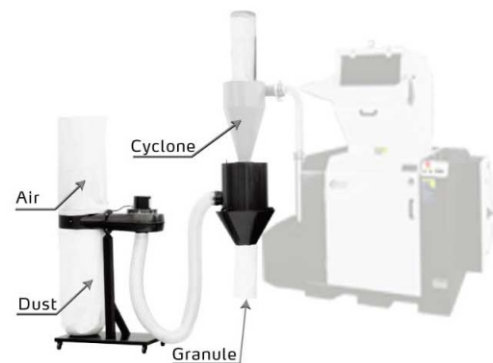
### Material Side Feed Pipe



The design of feeding hopper of traditional granulators is not suitable for long pipes and section bars. We have designed material side feed pipe for convenient feeding of long materials. It's optional for SG-36.

### Dust Separator

Work with cyclone dust separator to recycle the granule and separate it from dust.

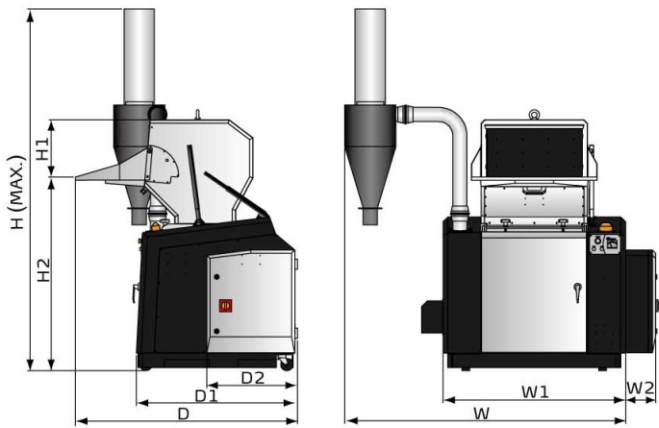


DS-36/43/50 Dust Separator can separate the dust in the regrind for immediate recycle use. The dust will be kept in filter bag, thus working environment will remain clean. This device ensures full use of regrind to avoid material wasting and enhance the economy returns.

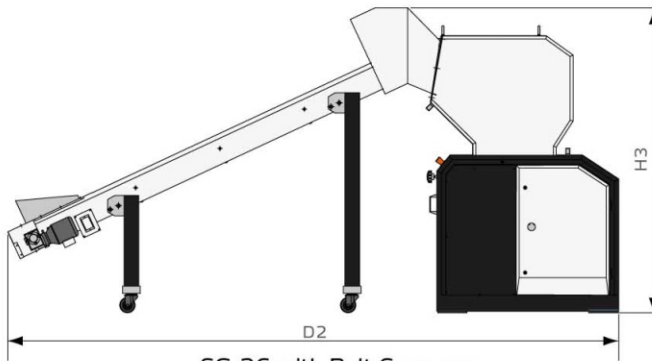


# SG-23/30/36

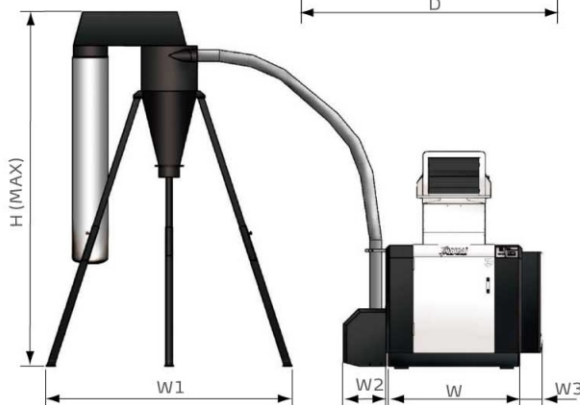
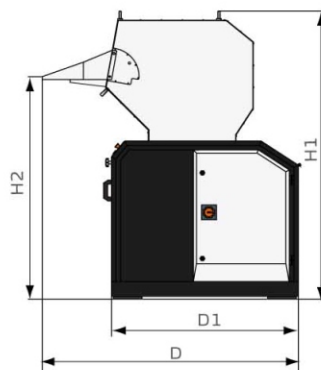
## Outline Drawings



SG-23/30



SG-36 with Belt Conveyor



SG-36

## SG-36 Specifications

Model	SG-3650	SG-3675
Motor Power (kW, 50/60Hz)	18.5	30
Rotating Speed (rpm, 50/60Hz)	540/650	540/650
Conveying Blower (kW, 50/60Hz)	1.1/1.3	1.5/1.9
Material of Blades	SKD11	SKD11
Quantity of Fixed Blades	2	4
Quantity of Rotating Blades	6	6
Cutting Chamber (mm)	360 × 500	360 × 750
Max. Output (kg/hr)	620	800
Noise Level dB(A)	100-105	100-105
Regrind Conveyor	✓	✓
Cooling Device	✓	✓
Screen (Φ10 mm)	✓	✓
Flywheel	✓	✓
Presetting Knife Jig	✓	✓
Full-receiver Alarm Device	○	○
Feed Hopper with Magnet	○	○
Dust Separator (DS-36)	○	○
Screen (Φ8,12,17,25 mm)	○	○
Increased Conveying Blower power (kW)	○ (1.5)	○ (2.2)
Feed Hopper with Port	○	○
Dimensions		
H (mm)	3155	3155
H1 (mm)	1980	1980
H2 (mm)	1520	1520
H3 (mm)	2100	2100
W (mm)	1260	1510
W1 (mm)	2120	2120
W2 (mm)	480	480
W3 (mm)	190	190
D (mm)	1715	1715
D1 (mm)	1250	1250
D2 (mm)	4200	4200
Weight (kg)	1480	1730

We reserve the right to change specifications without prior notice.

- Notes: 1) "✓" stands for standard, "○" stands for optional.  
 2) For stainless steel made feed hopper cover plate and storage tank. Add "R" at the end of the model code.  
 3) SKD11 is steel grade of Japanese JIS standard.  
 4) When granulating fibers reinforced plastics or materials alike (e.g. CPVC), it is suitable to select granulators with special quenching process in for cutting chamber and blades, and also add "F" at end of the model code.  
 5) Max. capacity of the machine is subject to diameter of screen mesh size and composition of material.  
 6) Noise level varies with different materials and motor types.  
 7) To avoid plastic from sticking to the blades, all materials should be crushed at normal temperature.  
 8) Power supply : 3Φ, 230/400/460/575VAC, 50/60Hz.

## SG-23/30 Specifications

Model	SG-2324	SG-2336	SG-2348	SG-3048	SG-3060		
Motor Power (kW, 50/60Hz)	5.5/6.3	7.5/8.6	11/12.6	11/12.6	15/17.3		
Rotating Speed (rpm, 50/60Hz)	415/500	415/500	415/500	415/500	415/500		
Conveying Blower (kW, 50/60Hz)	0.55/0.66	0.55/0.66	0.55/0.66	0.55/0.66	0.55/0.66		
Material of Blades	SKD11	SKD11	SKD11	SKD11	SKD11		
Blade Type	Staggered	Staggered	Staggered	Paddle	Paddle		
Quantity of Fixed Blade	2	2	2	2	2		
Quantity of Rotating Blade	3 × 2	3 × 3	3 × 4	3	3		
Cutting Chamber	mm	230 × 240	230 × 360	230 × 480	300 × 600		
	inch	9.0 × 9.5	9.0 × 14.2	9.0 × 18.9	11.8 × 23.6		
Max. Output	kg/hr	90	120	150	185	220	
	lb/hr	198	265	331	408	485	
Noise Level dB(A)	90-95	90-95	90-95	90-95	90-95		
Regrind Conveyor	✓	✓	✓	✓	✓		
Screen (Φ8mm)	✓	✓	✓	✓	✓		
Cooling Water device	—	—	—	✓	✓		
Presetting Knife Jig	—	—	—	✓	✓		
Full-receiver Alarm Device	○	○	○	○	○		
Feed Hopper with Magnet	○	○	○	○	○		
Dust Separator (DS-23)	○	○	○	○	○		
Dimension	Screen	mm	○ 4,6,10,12				
		inch	○ 0.16,0.24,0.39,0.47				
	H (mm)	mm	2210	2210	2210	2210	2210
		inch	87	87	87	87	87
	H1 (mm)	mm	265	265	265	360	360
		inch	10.4	10.4	10.4	14.2	14.2
	H2 (mm)	mm	1175	1175	1175	1210	1210
		inch	46.3	46.3	46.3	47.6	47.6
	W (mm)	mm	1340	1460	1580	1580	1700
		inch	52.8	57.5	62.2	62.2	66.9
	W1 (mm)	mm	780	900	1020	1020	1140
		inch	30.7	35.4	40.2	40.2	44.9
	W2 (mm)	mm	190	190	190	190	190
		inch	7.5	7.5	7.5	7.5	7.5
	D (mm)	mm	1245	1245	1245	1245	1390
		inch	49.0	49.0	49.0	49.0	54.7
	D 1(mm)	mm	915	915	915	1010	1010
		inch	36.0	36.0	36.0	39.8	39.8
	D 2(mm)	mm	520	520	520	570	570
inch		20.5	20.5	20.5	22.4	22.4	
Weight	kg	470	520	600	700	780	
	lb	1036	1146	1323	1543	1719	

Notes: 1) "✓" stands for standard, "○" stands for optional.

2) When granulating fibers reinforced plastics or materials alike (e.g. CPVC), please select fibre type of granulator SG-30, and add "F" at the end of the model code.

3) For stainless steel made feed port and storage tank. Add "R" at end of the model code.

4) SKD11 is steel grade of Japanese JIS standard.

5) Max. capacity of the machine is subject to diameter of screen mesh and composition of material.

6) Noise level varies with different materials and motor types.

7) To avoid plastic from sticking to the blades, all materials should be crushed at normal temperature.

8) Power supply : 3Φ, 230/400/460/575VAC, 50/60Hz.

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