



# Sound-proof Central Granulators



SG-70120



Refer carefully to the Manual before using products.



# SG-70 Series

## ■ Coding Principle



Note: \*

H=Higher Motor Power    F=Fiber-added    FAD=Full-receiver Alarm device  
R=For Stainless Steel Made Feed Port and Storage Tank    CE=CE Conformity

## ■ Features

### Standard configuration

- Rotating cutters adopt newly developed V-type cutting technology which can send the feeding material into the center of rotating cutters so to prevent the material from adhering onto the inner side of the cutting chamber while enhancing its wearability.
- The cutters are made of imported high quality steel featuring wearability, high rigidity, long service life and reusable after sharpening.
- Presetting knife jig, simple cutter installation adjusting technology makes the rotating blades be adjusted within clamps outside machine, no longer needs to be adjusted from inside of machine as before.
- Cutting chamber made of high rigidity material, after processing by CNC machine, has the features like high intensity, super wearability, no contamination, long service life and easy for maintenance and repairing.
- Optimized structure and hermetic double sound-proof layers keep noise level low.
- Sound-proof feeding box reduces the noise level in operation, also equips a safety material checking curtain which ensures no material sprinkling during granulating.
- V-type transmission belts help maintain a balanced operation mode, close contact, and also easy to disassemble and repair.
- Both Feeding hopper and screen cradle can be opened and closed by a hydraulic system with self-lock function, which ensures safety operation.
- Cooling pipe at rear plate of cutting chamber can effectively cool down and prevent the inside material from melting up.

### Accessory option

- Cyclone dust separator is available for choose and the height of its floor stand can be adjusted on different requirements.
- Separate blower, conveyor and material side feed pipe are optional.

## ■ Application

SG-70 series granulators are applicable to granulate various kinds of plastic materials from injection moulding, blow moulding or extrusion moulding. This series feature compact design, easy operation and quick blade replacement. It is great in motor power, cutting chamber size, and output capacity. Gradually inclined cutting and integrated power design offer a better cutting effect and a lower noise level.



After Opening Feeding Hopper



V-Type Cutting Blades



Presetting Knife Jig

### Different Cutting Angles for Different Materials

When granulating different kinds of plastic wastes, such as plates, frames, die head from injection moulding, sprues and pipes, etc., SG-70 series have two kinds of cutting angles for different materials.

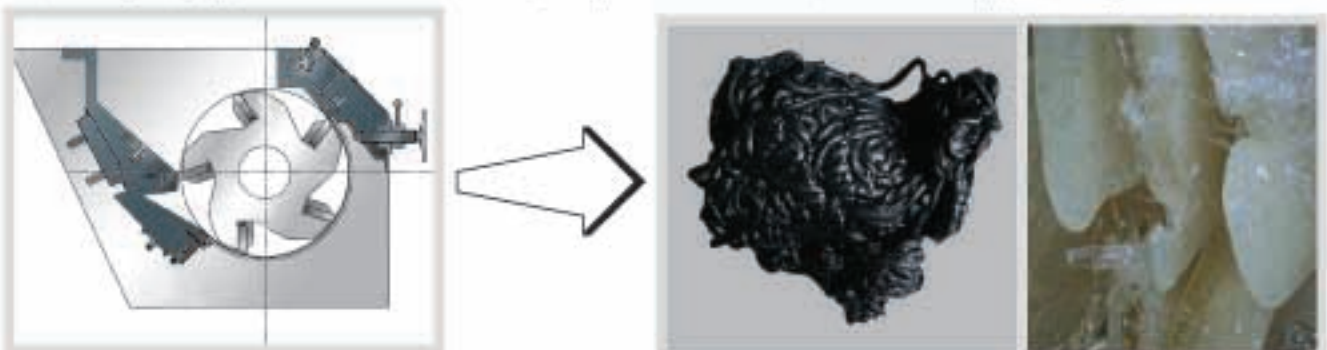
### 3 Rotating Blades and 2 Fixed Blades (Standard Type)

Two rows of fixed blades model have big inlet space and initially low cutting point. Material is aggressively grabbed and cut thus making this rotor/housing combination ideal for the granulation of hollow objects such as bottles, crates and drums as well as large bulky materials.

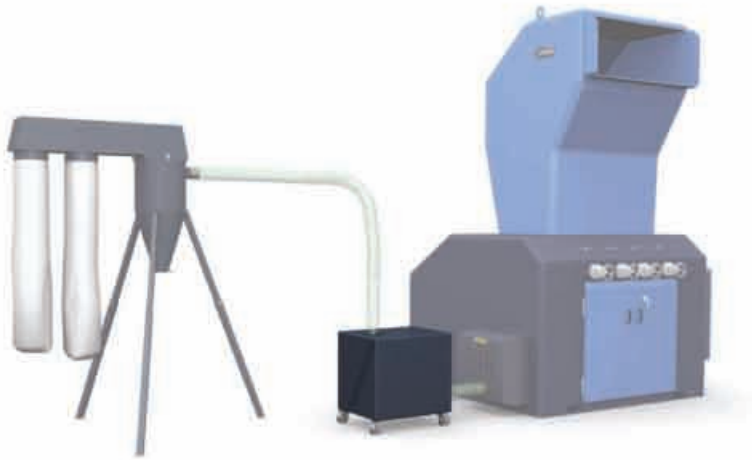


### 5 Rotating Blades and 3 Fixed Blades

This semi-closed rotor has much smaller spaces between the blade rows thus preventing much material from dropping into the rotor and 3 fixed blades design which restricts the inlet opening and moves the initial cutting point higher in the machine, there is consequently a less aggressive cutting action meaning no blockage or rotor stall even under the most extreme conditions. These massive, extremely robust rotors are ideally suited for difficult, heavy duty applications such as start-up lumps and head waste, thick walled pipes, heavy sheets etc.



## ■ Options



### **Separate Conveying Blower**

The blower stands outside the machine. Without restriction of the inner space of the machine, customer can choose different kinds of blowers.



### **Feeding Hopper for Conveyor**

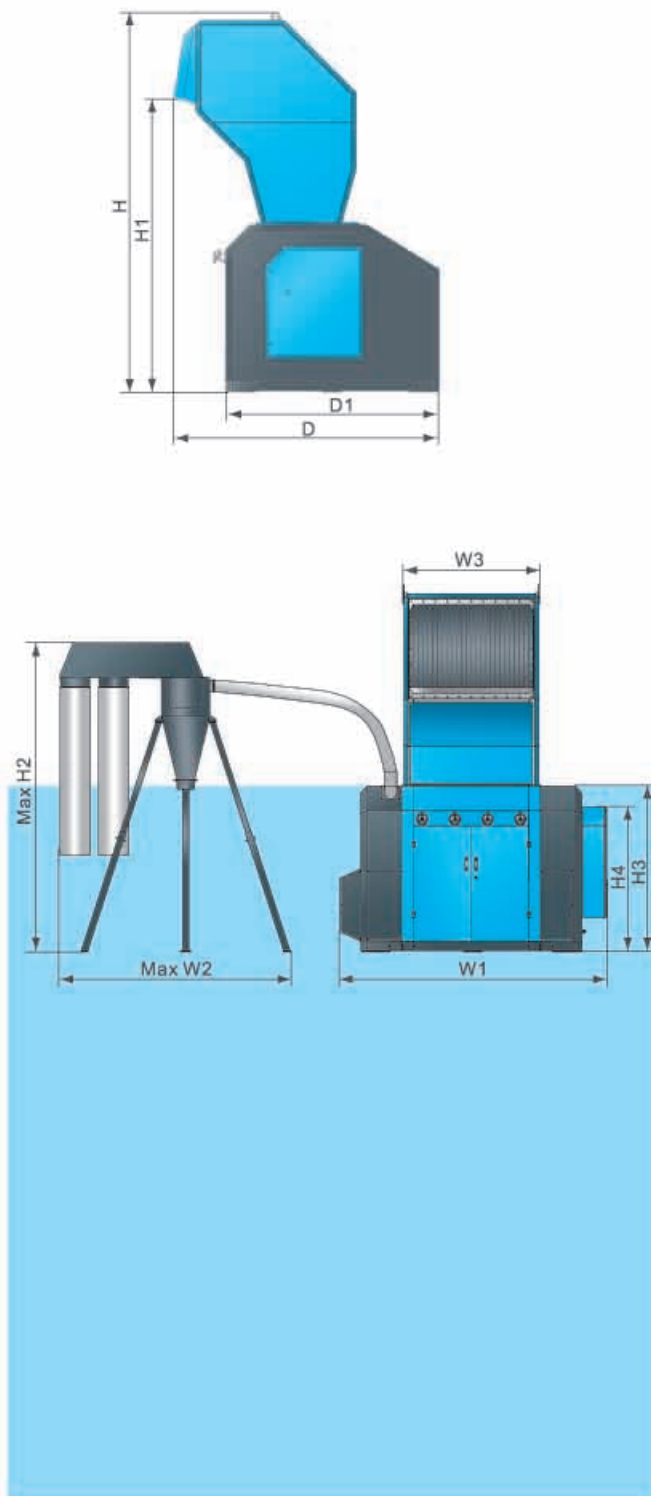
Material feeding for traditional large granulators is quite a difficult matter. They are generally installed at a lower place or a platform is built for material feeding. Shini has particularly designed the belt conveyor to easily convey the material into the cutting chamber of SG-70 series.



### **Material Side Feed Pipe**

The design of feeding hopper of traditional granulators is not suitable for longer pipes and profiles. We have designed material side feed pipe for convenient feeding of long materials.

## Outline Drawings



## Specifications

Model	SG-7090	SG-70120
Motor Power (kW, 50/60Hz)	75 / 84	90 / 101
Rotating Speed (r.p.m. 50/60Hz)	415/493	415/493
Conveying Blower (kW, 50/60Hz)	4.0 / 4.6	5.5 / 6.3
Handspike Motor Power (kW, 50/60Hz)	0.25/0.3	0.25/0.3
Material of Blades	SKD11	SKD11
Number of Fixed Blades(optional)	2 (3)	2 (3)
Number of Rotating Blades	3(5)	3(5)
Cutting Chamber (mm)	700 x 900	700 x 1200
Max. Output (kg/hr)	1500 / 1780	2000 / 2300
Noise Level dB(A)	115	115
Regrinds Conveyor	✓	✓
Cooling pipes	✓	✓
Dia. of Screen Hole (10 mm)	✓	✓
Flywheel	✓	✓
Presetting Knife Jig (PKJ-70)	✓	✓
Dust Separator (DS-70)	○	○
Dia. of Screen Mesh (10,14 mm)	○	○
<b>Dimensions</b>		
H (mm)	3830	3830
H1 (mm)	2760	2760
Max H2 (mm)	3153	3153
H3 (mm)	1720	1720
H4 (mm)	1510	1510
D(mm)	2680	2680
D1(mm)	2200	2200
W1 (mm)	2480	2780
Max W2 (mm)	2400	2400
W3 (mm)	1120	1420
Weight (kg)	4500	5000

We reserve the right to change specifications without prior notice.

- Note: 1) "✓" stands for standard, "○" stands for optional.  
 2) Model denotes "FAD" when machine fitted with full alarm device.  
 3) SKD11 is material code number of Japanese JIS standard.  
 4) Max. capacity of the machine is subject to diameter of screen mesh and composition of the material.  
 5) Noise level will vary with different materials and motor types.  
 6) Noise level refers to the following conditions: 1 meter around and 1.6 meter above the machine.  
 7) For avoiding plastic to adhibit the blade, all materials should be crushed at normal temperature.  
 8) Power supply : 3Φ, 230 / 400 / 460 / 575VAC, 50 / 60Hz.



## SHINI PLASTICS TECHNOLOGIES, INC.

### Headquarters:

Shini Plastics Technologies, Inc.

No.23, Minhe St., Shulin Dist.,  
New Taipei City 23852, Taiwan

tel: +886 2 2680 9119

fax: +886 2 2680 9229

email: [shini@shini.com](mailto:shini@shini.com)

### Factories:

- Taiwan
- Dongguan
- Ningbo
- Pinghu
- Mumbai