

# Sound-proof Central Granulator

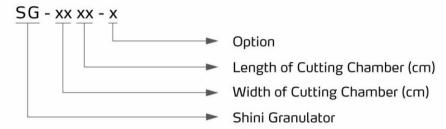
SG-7090



Refer carefully to this manual before operation.

# SG-70 Series

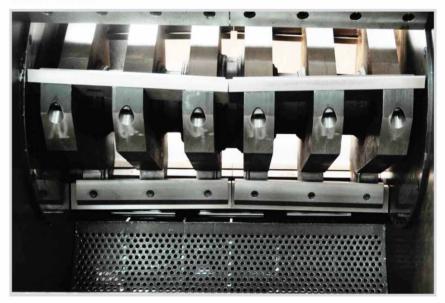
# Coding Principle

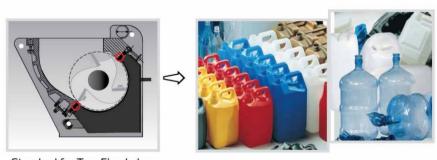


# Features

# Fine finishing cutting chamber and convenient cutters installation

Components in the cutting chamber have been finely finished by CNC lathe, enjoying high accuracy. Besides, the machine is equipped with presetting knife jig, in which adjustment of cutters can be made. Therefore, the installation and adjustment of cutters becomes much easier, and the maintenance time of the machine can be saved.





Standard for Two Fixed plus Three Rotating Blades (Low Cutting Point)

## Sound-proofing machine

The machine adopts enclosed soundproof box, and in the positions that may make noises, there are soundabsorbing cotton, which can efficiently reduce the noises made in the cutting process.



### Cooling device of cutting chamber

Cooling water device on the rear plate of cutting chamber can reduce the room temperature of cutting chamber and avoid the melt of regrind materials.





# Automatic conveying device

The machine is equipped with automatic conveying device of regrind materials, which is able to increase the conveying efficiency; materials are conveyed by blowers, which promote airflow and achieve air cooling of the cutting chamber to some extent. Thus, the room temperature of the cutting chamber can be reduced.



# High-efficiency cutting motor

The machine adopts Siemens high-efficiency motor, which has stable performance as well as safe operation and helps energy consumption.



# Multiple safety protection of control

Control circuit meets CE standard, and it has multiple protections including protection of motor overload, short circuit, phase default and phase order detection, ensuring safe operation of the machine.

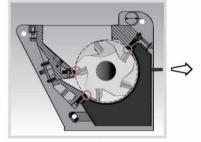


# Application

SG-70 series granulators are applicable to granulate various kinds of plastic materials from injection molding, blow molding or extrusion molding.

# Options

# Three Fixed plus Five Rotating Blades (High Cutting Point)



High cutting point fixed blades model has small inlet space and initially high cutting point. Thus its cutting force is not so strong, which enhances the reliability of cutting solid material. This design is suitable for granulating big solid material with thick wall and sheet.



# SG-70 Series

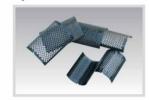
# Cyclone dust separator conveying device



# Full-receiver Alarm Device

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. Add "DS" at the end of the model code.

### Special Screens



Special screen mesh sizes:  $\Phi10,\Phi14$  (mm). Add "SS + screen diameter" at the end of the model code, e.g.:  $\Phi10$ mm, add

"SS10".

# Level Motor Level Motor

Full-receive alarm device helps to achieve 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.

Add "FAD" at the end of the model code.

# 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. Add "SF" at the end of the model code.



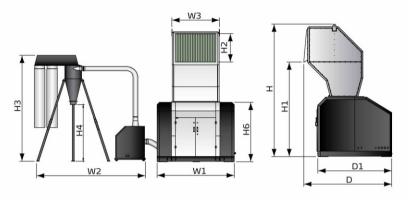
### Feeding Hopper for Conveyor

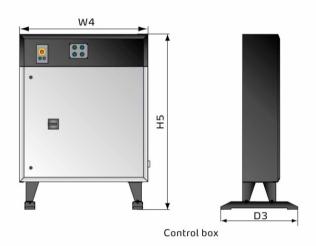
Material feeding for traditional large granulators is quite a difficult matter. They are generally installed at a lower place or a platform must be built for material feeding. Shini has particularly designed the belt conveyor to easily convey the material into the cutting chamber of SG-70 series. Add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

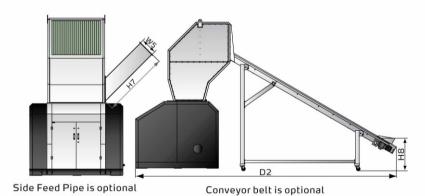




# **Outline Drawings**







**Specifications** 

Model   SG-7090   SG-70120					
Rotating Speed (rpm, 50/60Hz)   525   525	Model			SG-7090	SG-70120
Conveying Blower (kW, 50/60Hz)   7.5/8.6   7.5/8.6     Handspike Motor Power (kW, 50/60Hz)   1.5   1.5     Material of Blades   SKD11   SKD11     Quantity of Fixed Blades (Optional)   2×2 (2×3)   2×2 (2×3)     Cutting Chamber   mm   700 × 900   700 × 1200     Inch   27.6 × 35.4   27.6 × 47.2     Max.	Moto	Power (kW, 50/60H	łz)	75	90
Handspike Motor Power (kW, 50)60Hz   1.5   1.5     Material of Blades   Quantity of Fixed Blades (Optional)   2×2 (2×3)   2	Rotating Speed (rpm, 50/60Hz)			525	525
Material of Blades   SKD11   SKD11     Quantity of Fixed Blades (Optional)   2×2 (2×3)   2×2 (2×3)     Quantity of Rotating Blades (Optional)   3×2 (5×2)   3×2 (5×2)     Cutting Chamber   mm   700 × 900   700 × 1200     inch   27.6 × 35.4   27.6 × 47.2     Max. ∪utput   kg/hr   1300   1800     Ib/hr   2866   3968     Noise Level dB(A)   115   115     H (mm)   mm   3950   3950     inch   155.5   155.5     mm   2890   2890     inch   1338   33   33     H2 (mm)   mm   340   840     inch   33   33   33     H3 (mm)   mm   1240-1690   1240-1690     inch   53.9   53.9     H4 (mm)   mm   1370   1370     inch   53.9   53.9     H6 (mm)   mm   1419   1419     H7 (mm)   mm   1419   1419     inch   55.9   55.9     H8 (mm)   mm   2480   2780     M1 (mm)   mm   2480   2780     M2 (mm)   mm   2480   2780     M3 (mm)   mm   2480   2780     M4 (mm)   mm   2480   2780     M5 (mm)   mm   350x350   350x350     inch   35.4   47.2     mm   1000   1000     inch   39.3   39.3     M5 (mm)   mm   2630   2630     inch   13.8x13.8   13.8x13.8     M5 (mm)   mm   2630   2630     inch   36.6   86.6     M6 (600   600     inch   23.6   23.6     Kg   4500   5000     Ib   9,921   11,023     M6 (10,000				7.5/8.6	7.5/8.6
Quantity of Fixed Blades (□ptional)         2×2 (2×3)         2×2 (2×3)           Quantity of Rotating Blades (□ptional)         3×2 (5×2)         3×2 (5×2)           Cutting Chamber         mm         700 × 900         700 × 1200           Max. Output         kg/hr         1300         1800           Noise Level dB(A)         115         115           H (mm)         mm         3950         3950           inch         155.5         155.5         155.5           H1 (mm)         mm         2890         2890           H1 (mm)         inch         113.8         113.8           H2 (mm)         mm         2840         33           H3 (mm)         mm         2890         2890           H4 (mm)         mm         840         840           H2 (mm)         mm         840         840           H4 (mm)         mm         2710-3155         2710-3155           H4 (mm)         mm         1240-1690         1240-1690           H4 (mm)         mm         1370         1370           inch         53.9         53.9         53.9           H7 (mm)         mm         1419         1419           H6 (mm)				1.5	1.5
Quantity of Rotating Blades (Optional)         3×2 (5×2)         3×2 (5×2)           Cutting Chamber         mm         700 × 900         700 × 1200           inch         27.6 × 35.4         27.6 × 47.2           Max. Output         kg/hr         1300         1800           Noise Level dB(A)         115         115           H (mm)         mm         3950         3950           inch         155.5         155.5         155.5           H1 (mm)         mm         2890         2890           inch         113.8         113.8         113.8           H1 (mm)         mm         2890         2890           inch         113.8         113.8         113.8           H1 (mm)         mm         2890         2890           inch         113.8         113.8         113.8           H1 (mm)         mm         2890         2890           inch         113.8         113.8         113.8           H2 (mm)         mm         2710-3155         2710-3155         106-7-124.2         106-7-124.2         106-7-124.2         106-7-124.2         106-7-124.2         106-7-124.2         106-7-124.2         107-7         1370         1370 <td colspan="3"></td> <td>SKD11</td> <td>SKD11</td>				SKD11	SKD11
Quantity of Rotating Blades (Optional)         3×2 (5×2)         3×2 (5×2)           Cutting Chamber         mm         700 × 900         700 × 1200           inch         27.6 × 35.4         27.6 × 47.2           Max. Output         kg/hr         1300         1800           Noise Level dB(A)         115         115           H (mm)         mm         3950         3950           inch         155.5         155.5         155.5           H1 (mm)         mm         2890         2890           inch         113.8         113.8         113.8           H1 (mm)         mm         2890         2890           inch         113.8         113.8         113.8           H1 (mm)         mm         2890         2890           inch         113.8         113.8         113.8           H1 (mm)         mm         2890         2890           inch         113.8         113.8         113.8           H2 (mm)         mm         2710-3155         2710-3155         106-7-124.2         106-7-124.2         106-7-124.2         106-7-124.2         106-7-124.2         106-7-124.2         106-7-124.2         107-7         1370         1370 <td colspan="3"></td> <td></td> <td></td>					
Cutting Chamber         mm         700 × 900         700 × 1200           Max. Output         kg/hr         1300         1800           Max. Output         kg/hr         1300         1800           Noise Level dB(A)         115         115         115           H (mm)         mm         3950         3950           inch         155.5         155.5         155.5           H1 (mm)         mm         2890         2890           inch         113.8         113.8         113.8           H1 (mm)         mm         2840         840           inch         13.3         33         33           mm         2710-3155         2710-3155         2710-3155           inch         106.7-124.2         106.7-124.2         106.7-124.2           mm         1240-1690         1240-1690         1240-1690         1240-1690         1370           H5 (mm)         mm         1370         1370         1370         1370         1370           H6 (mm)         mm         1720         1720         1720         1720         1720         1720         1720         1720         1720         1720         1720         1720					3×2 (5×2)
Max. Output	Cutting Chamber mm				
Max. Output   Mg/hr   1300   1800   1800   16/hr   2866   3968   3968   Noise Level dB(A)   115   1			inch	27.6 × 35.4	27.6 × 47.2
Noise Level dB(A)	Max. Output kg/l		kg/hr		1800
H (mm)			lb/hr	2866	3968
H (mm)	Total and the second			115	115
No.   155.5   155.5   155.5   155.5   155.5   155.5   155.5   155.5   165.5   166.5   113.8			mm		3950
H1 (mm)		H (MM)	inch		
H2 (mm)		H1 (mm)	mm	2890	2890
H2 (mm)			inch	113.8	113.8
H2 (mm)		H2 (mm)	mm	840	840
H3 (mm)			inch		
H3 (mm)	Dimension		mm	2710~3155	2710~3155
H4 (mm)		H3 (mm)			
H4 (mm)		H4 (mm)		Committee and the committee of the commi	
H5 (mm)					
H5 (mm)		H5 (mm)			
H6 (mm)				No. of the last of	
H6 (mm)		H6 (mm)			
H7 (mm)					
H7 (mm)    Inch					
H8 (mm)					
H8 (mm)   inch   33.3   34.5   34.5   34.5   34.5   35.4   35.4   35.4   35.4   35.4   35.4   35.4   35.4   35.4   35.4   35.4   35.4   35.4   35.4   35.4   35.3				55.9	
Use Fig. 1         inch         33.3         33.3         33.3         33.3         33.3         33.3         33.3         33.3         33.3         39.4         109.4         1000         1200         1200         1200         1200         13.8x13.8         13.8x13.8 <th< td=""><td>mm</td><td></td><td>100 00 000</td></th<>			mm		100 00 000
WE (mm)         inch         97.6         109.4           W2 (mm)         mm         2000-2400         2000-2400           inch         78.7-94.5         78.7-94.5         78.7-94.5           mm         900         1200           inch         35.4         47.2           mm         1000         1000           inch         39.3         39.3           ys         mm         350x350         350x350           inch         13.8x13.8         13.8x13.8           D (mm)         mm         2630         2630           inch         103.5         103.5           mm         2200         2200           inch         86.6         86.6           mm         6840         6840           inch         269.3         269.3           mm         600         600           inch         23.6         23.6           Weight (kg)         kg         4500         5000           lb         9,921         11,023			inch		
W3 (mm)		W1 (mm)	mm	2480	20070000000000
W3 (mm)			inch	97.6	
W3 (mm)		W2 (mm)	mm	2000~2400	2000~2400
W3 (mm)     inch     35.4     47.2       W4 (mm)     mm     1000     1000       inch     39.3     39.3       W5 (mm)     mm     350x350     350x350       inch     13.8x13.8     13.8x13.8       D (mm)     mm     2630     2630       inch     103.5     103.5       D1 (mm)     mm     2200     2200       inch     86.6     86.6       mm     6840     6840       inch     269.3     269.3       D3 (mm)     mm     600     600       inch     23.6     23.6       Weight (kg)     kg     4500     5000       Ib     9,921     11,023			inch	78.7~94.5	78.7~94.5
W4 (mm)     mm     1000     1000       W4 (mm)     mm     1000     1000       inch     39.3     39.3       350x350     350x350       inch     13.8x13.8     13.8x13.8       D (mm)     mm     2630     2630       inch     103.5     103.5       D1 (mm)     mm     2200     2200       inch     86.6     86.6       mm     6840     6840       inch     269.3     269.3       D3 (mm)     mm     600     600       inch     23.6     23.6       Weight (kg)     kg     4500     5000       Ib     9,921     11,023		W3 (mm)	mm		
W4 (mm)     inch     39.3     39.3       W5 (mm)     mm     350x350     350x350       inch     13.8x13.8     13.8x13.8       D (mm)     mm     2630     2630       inch     103.5     103.5       mm     2200     2200       inch     86.6     86.6       mm     6840     6840       inch     269.3     269.3       mm     600     600       inch     23.6     23.6       Weight (kg)     kg     4500     5000       lb     9,921     11,023			inch	35.4	47.2
W5 (mm)		W4 (mm)	mm	1000	1000
W5 (mm)         inch         13.8x13.8         13.8x13.8           D (mm)         mm         2630         2630           Inch         103.5         103.5         103.5           D1 (mm)         mm         2200         2200           Inch         86.6         86.6         86.6           Mm         6840         6840         6840           Inch         269.3         269.3         269.3           Mm         600         600         600           Inch         23.6         23.6           Weight (kg)         kg         4500         5000           Ib         9,921         11,023			inch	39.3	39.3
D (mm) mm 2630 2630 103.5 103.		W5 (mm)	mm	350x350	350x350
D1 (mm)			inch	13.8x13.8	13.8x13.8
D1 (mm)		D (mm)	mm	2630	2630
D1 (mm) inch 86.6 86.6 86.6 mm 6840 6840 inch 269.3 269.3 mm 600 600 inch 23.6 23.6 Weight (kg) kg 4500 5000 lb 9,921 11,023			inch	103.5	103.5
D2 (mm) mm 6840 6840 inch 269.3 269.3 mm 600 600 inch 23.6 23.6 Weight (kg) kg 4500 5000 lb 9,921 11,023		D1 (mm)	mm	2200	2200
D2 (mm)     mm     6840     6840       inch     269.3     269.3       mm     600     600       inch     23.6     23.6       Weight (kg)     kg     4500     5000       lb     9,921     11,023			inch	86.6	86.6
D2 (mm) inch 269.3 269.3 mm 600 600 inch 23.6 23.6 Weight (kg) kg 4500 5000 lb 9,921 11,023		D2 (mm)	mm	6840	12 Per 15 Per 15
D3 (mm)         mm         600         600           inch         23.6         23.6           Weight (kg)         kg         4500         5000           Ib         9,921         11,023				269.3	269.3
D3 (mm) inch 23.6 23.6 Weight (kg) kg 4500 5000 Ib 9,921 11,023		D3 (mm)			
Weight (kg)         kg         4500         5000           Ib         9,921         11,023			-		
Weight (kg)   11,023					
	Weig	ght (kg)			
	Notes.	1) SKD11 is steel grad			

- Notes: 1) SKD11 is steel grade of Japanese JIS standard.

  2) Maximum output is subject to the diameter and material of screen mesh. For granulating frame and shell material, maximum output will be reduced about 50%.
  - 3) Noise level varies with different materials and motor type.
  - 4) Noise level is tested under conditions of 1m/39.9'around the machine and 1.6m/63' from the ground.
  - To avoid platics from sticking to the blades, all materials should be crushed at normal temperature.
  - 6) Power supply: 3Φ, 230/400/460/575VAC, 50/60Hz.

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### Factories:

- Taiwan
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