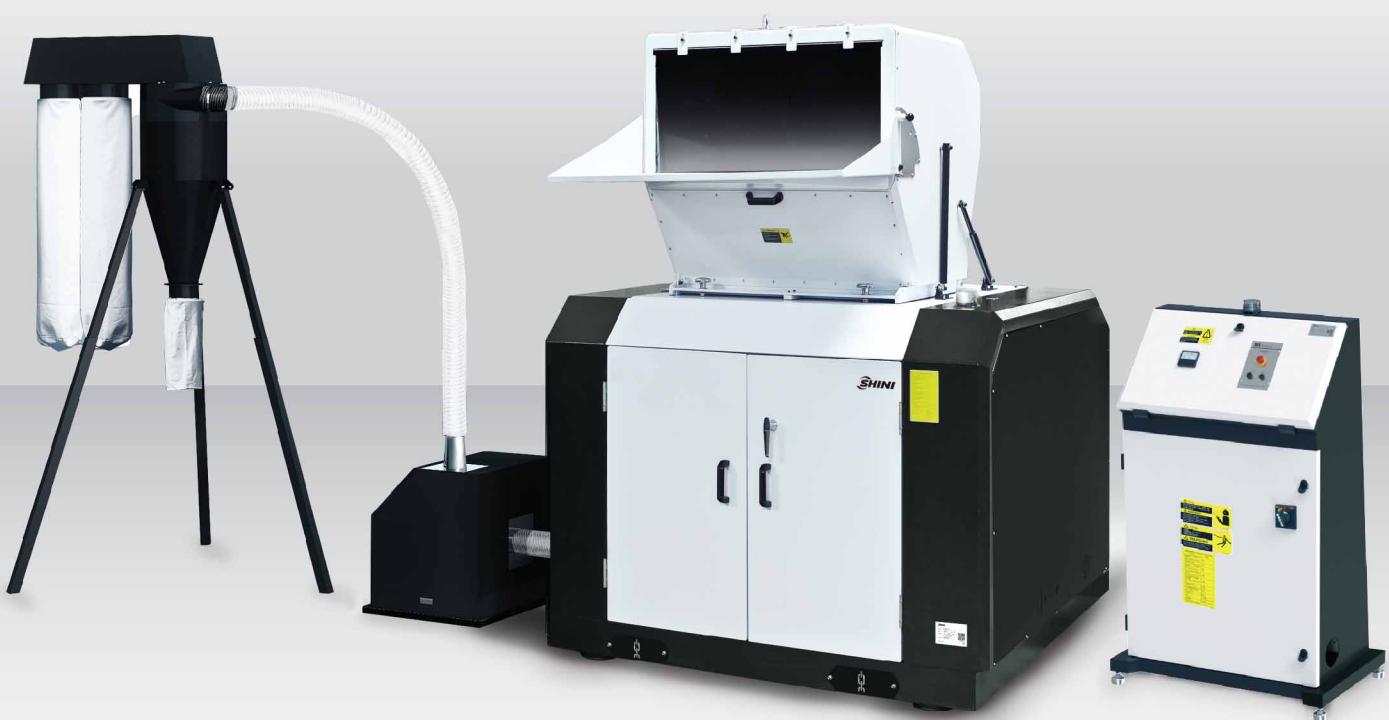




Sound-proof Central Granulator

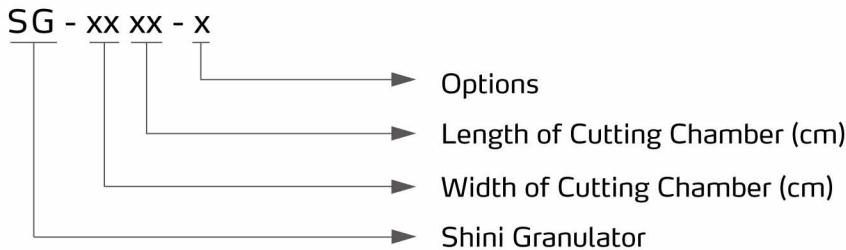
SG-4390



Refer carefully to this manual before operation.

SG-43/50/70 Series

■ Coding Principle



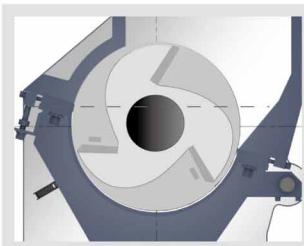
■ Features

● Fine finishing cutting chamber and cutting tools that need no adjustment

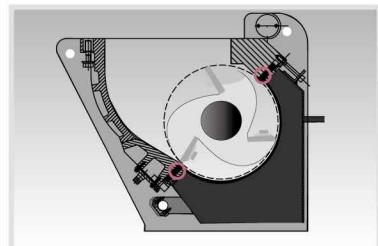
Components in the cutting chamber have been finely finished by CNC lathe, enjoying high accuracy; staggered cutters and structure can effectively disperse impact load and improve cutting efficiency; blade rest needing no adjustment makes it more convenient to change blades.



Cutting Chamber



Two Fixed plus Three
Rotating Blades(SG-43)



Two Fixed plus Three
Rotating Blades(SG-50/70)

● 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.



Suitable for SG-43



Suitable for SG-50/70

● High-efficiency cutting motor

The machine adopts IE3 high-efficiency motor, which has stable performance as well as safe operation and helps energy consumption.



● Presetting Knife Jig

The presetting knife jig, which enables to reshape of the blades and installation without too much cost and time.



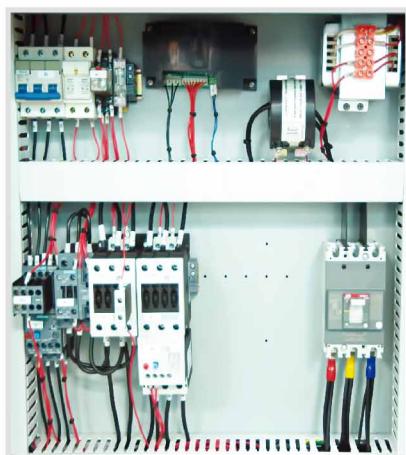
● Smart Energy-Saving Control System

Compared to standard models and similar products on the market, this Smart Energy-Saving Control System can achieve 20% to 40% energy savings under identical working conditions.

The system features an integrated solid-state soft starter, which effectively reduces the motor's starting current and up to 70% of starting shock. This significantly lowers the motor's temperature rise, thereby extending its service life.

● 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.



● Sound-proofing machine

The machine adopts enclosed sound-proof box, and in the positions that may make noises, there are sound-absorbing 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 reground materials.



Cooling water Tank

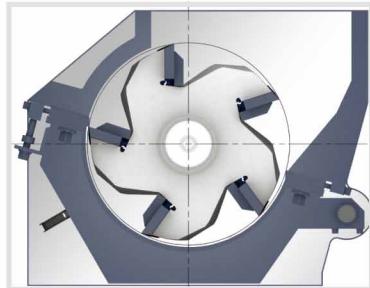
■ Application

SG-43/50/70 series is suitable for centralized recycling of waste and rejected parts from injection, blowing molding and extrusion lines.

SG-43/50/70 Series

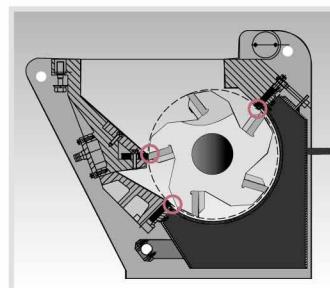
■ Options

Two Fixed plus Five Rotating Blades



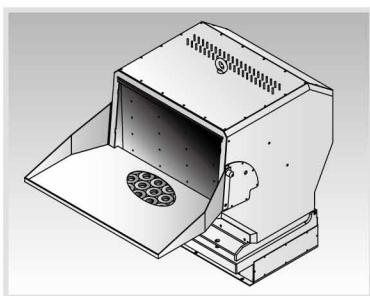
Two fixed plus five rotating blades are optional with a small feed port of cutting chamber, suitable for granulating block and solid, thick sheet material. Suitable for SG-43.

Three Fixed plus Five Rotating Blades



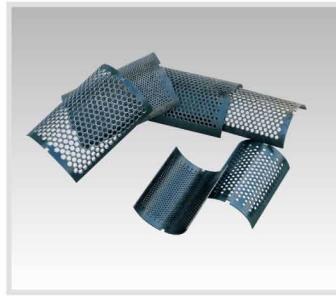
High cutting point fixed blades model has small inlet space and initially high cutting point. Thus its cutting force is not so strong, which enhances the reliability of cutting solid material. This design is suitable for granulating big solid material with thick wall and sheet. - Suitable for SG-50/70.

Feed Hopper with Magnet



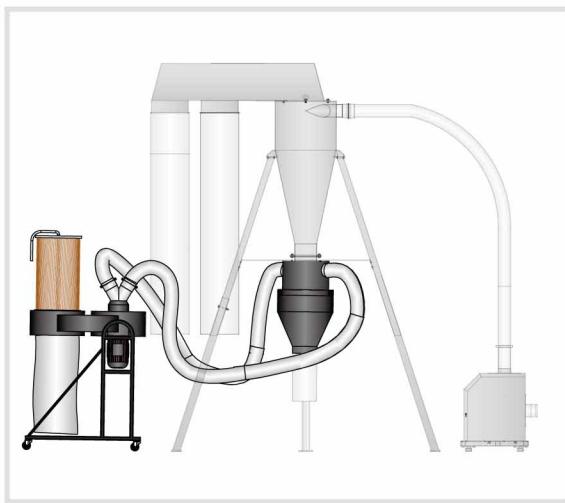
Feed hopper with magnet is used to take out metal craps and impurities in the material. (Except SG-70 series) Add "FHM" at the end of the model code.

Special Screens

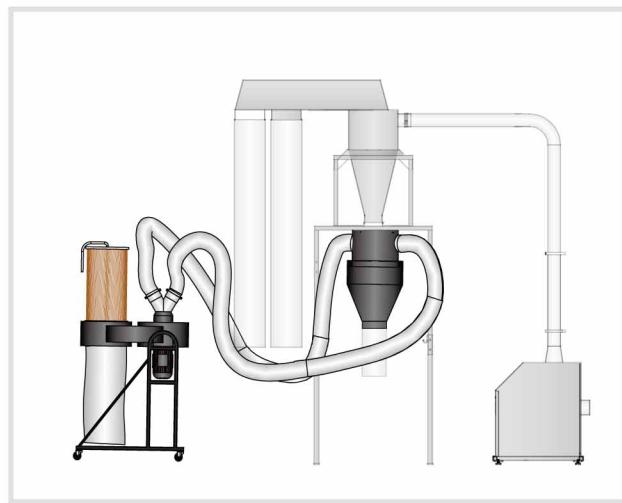


$\phi 8$, $\phi 10$, $\phi 17$, $\phi 25$ (mm) are optional for SG-43; $\phi 8$, $\phi 10$, $\phi 14$, $\phi 17$, $\phi 25$ (mm) are optional for SG-50; $\phi 10$, $\phi 14$, (mm) are optional for SG-70. Add "SS + screen diameter" at the end of the model code, e.g.: $\phi 8$ mm, add "SS08".

Dust-separating system(SG-43)



Dust-separating system(SG-50/70)



Optional dust-separating system to remove the dusts in the material. Add "DS" at the end of the model code.



Material Side Feed Pipe

The design of feeding hopper of traditional granulators is not suitable for longer 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-43 series.

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

Full-receiver Alarm Device



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 its sensor, thus stop the granulator and warn the user by sounding an alarm.

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

Extended Feeding Hopper

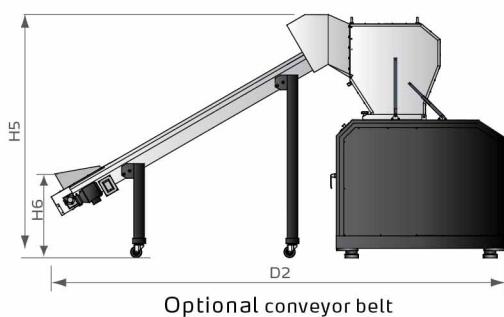
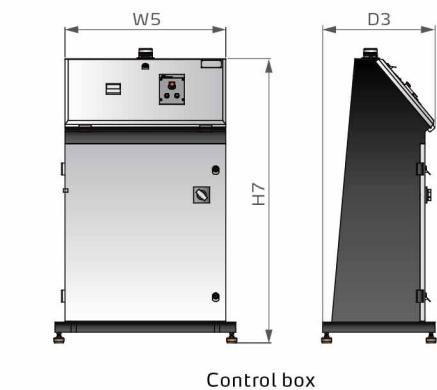
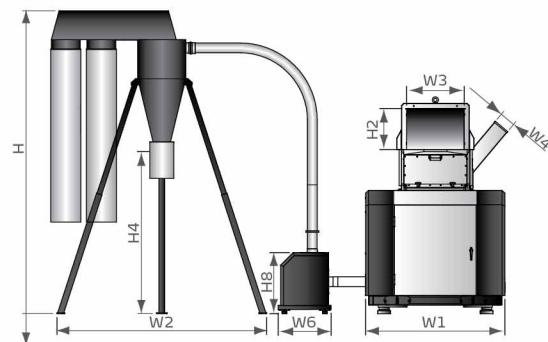
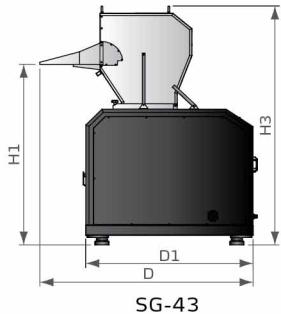


In order to meet the needs of customers to crush longer materials, such as car bumpers, optional Height-increasing storage bin (only suitable for SG-50/70). Add "FH" at the end of the model code.

- The function of fiber reinforced material granulating is optional. Adopt surface-hardening treatment on the material contacting component. And blade material is V-4E joint with S50C. Add "F" at the end of the model code.
- For stainless steel made feed hopper cover plate and storage tank, Add "R" at the end of the model code.
- Higher-power blower is optional, add "EC" at the end of the model code. (only suitable for SG-43)
- Higher-power motor is optional, add "H" at the end of the model code. (only suitable for SG-43)

SG-43/50/70 Series

■ Outline Drawings (SG-43)



■ Specifications(SG-43)

Model	SG-4360(H)	SG-4390(H)
Motor Power (kW, 50/60Hz)	30/34 (37/41.5)	37/41.5 (45/51)
Conveying Blower (kW, 50/60Hz)	2.2/2.55	2.2
Rotating Speed (rpm, 50/60Hz)	525/630	525/630
Quantity of Fixed Blades	2 x 1	2 x 2
Quantity of Rotating Blades(Optional)	3 x 1 (5 x 1)	3 x 2 (5 x 2)
Cutting Chamber	mm inch	430 x 600 16.9 x 23.6
Max. Output	kg/hr lb/hr	800 1764
Noise Level dB(A)	105-110	105-110
Material of Blades	SKD11	SKD11
Screen	Φ12 mm/0.47"	Φ12 mm/0.47"
Higher-power blower (kW)	○(7.5)	○(7.5)
H (mm)	mm	2710~3155
	inch	106.7~124.2
H1 (mm)	mm	1708
	inch	67.2
H2 (mm)	mm	430
	inch	16.9
H3 (mm)	mm	2260
	inch	89
H4 (mm)	mm	1240~1690
	inch	48.8~66.5
H5 (mm)	mm	2277
	inch	89.6
H6 (mm)	mm	750
	inch	29.5
H7 (mm)	mm	1416
	inch	55.8
H8 (mm)	mm	636(970)
	inch	25(38.2)
W1 (mm)	mm	1450
	inch	57
W2 (mm)	mm	1900~2310
	inch	74.8~90.9
W3 (mm)	mm	600
	inch	23.6
W4 (mm)	mm	166x 166
	inch	6.5 x 6.5
W5 (mm)	mm	800
	inch	31.5
W6 (mm)	mm	552(630)
	inch	21.7(24.8)
D (mm)	mm	1978
	inch	77.9
D1 (mm)	mm	1553
	inch	61
D2 (mm)	mm	4300
	inch	165.4
D3 (mm)	mm	560
	inch	22
Weight	kg	2350 (2430)
	lb	5181 (5357)
Weight	kg	2730 (2780)
	lb	6019 (6129)

Notes: 1) "○" stands for optional.

2) SKD11 is steel grade of Japanese JIS standard.

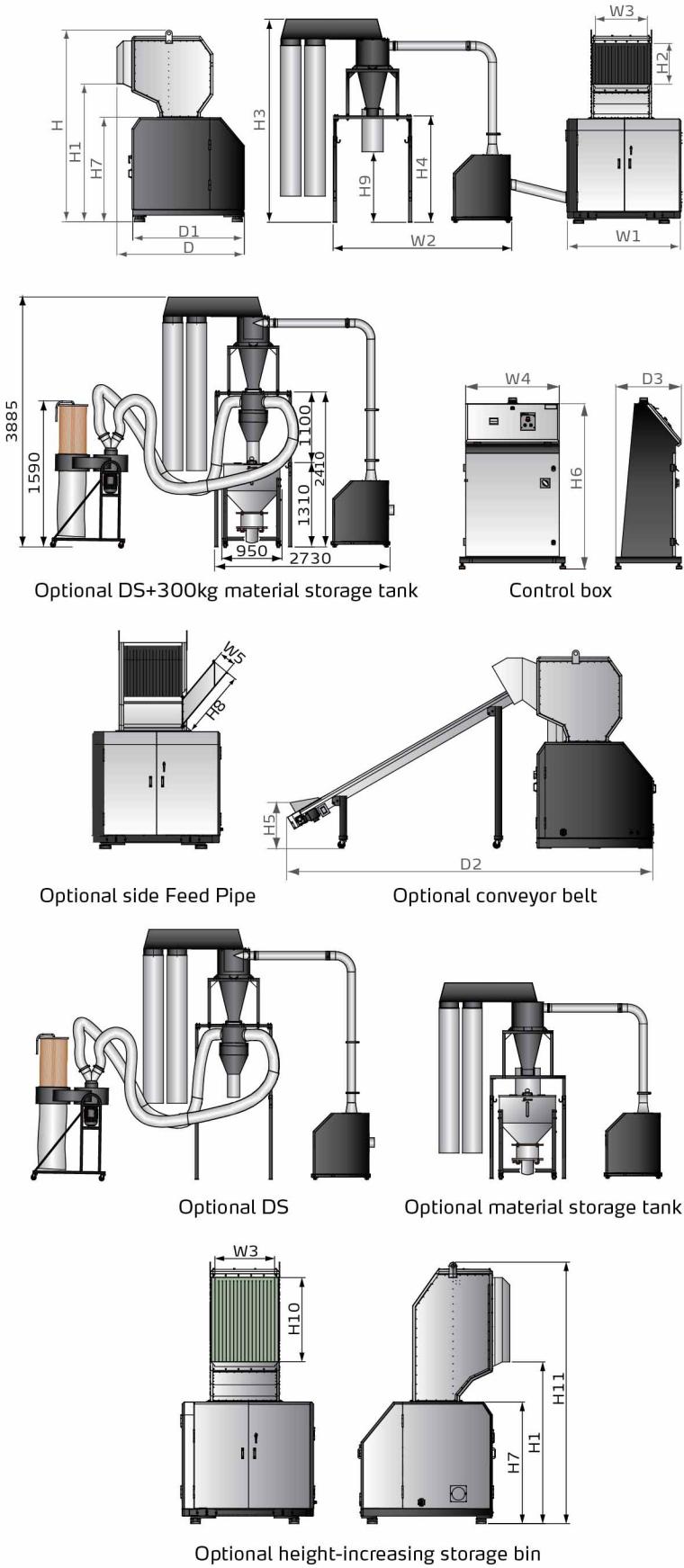
3) Max. capacity of the machine is subject to diameter of screen mesh and composition of the material.

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

5) Noise level is tested under conditions of 1m around the machine and 1.6m from the ground.

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

■ Outline Drawings(SG-50)



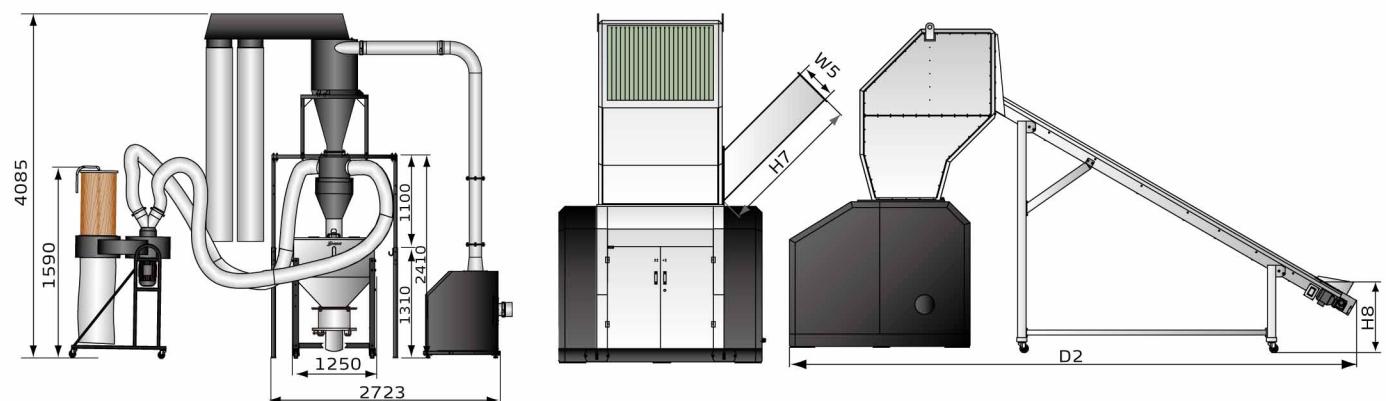
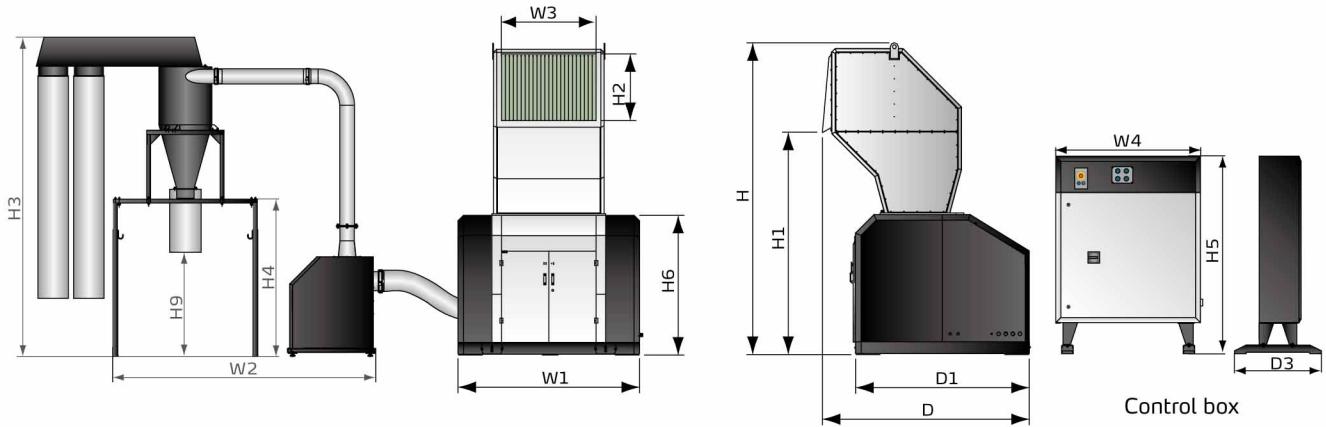
■ Specifications(SG-50)

Model	SG-5080	SG-50110
Motor Power (kW, 50/60Hz)	37	45
Rotating Speed (rpm, 50/60Hz)	525	
Conveying Blower (kW, 50/60Hz)	7.5	
Handspike Motor Power (kW, 50/60Hz)	0.25	
Material of Blades	SKD11	
Quantity Fixed Blades (optional)	2x2 (3x2)	2x2 (3x2)
Quantity of Rotating Blades	3x2 (5x2)	3x2 (5x2)
Cutting Chamber	500x800	500x1100
Max. Output	1100	1500
Noise Level dB(A)	105~110	
Screen	Φ12mm/0.47"	
H	mm	2980
	inch	117.3
H1	mm	2170
	inch	85.1
H2	mm	620
	inch	24.4
H3	mm	3100
	inch	122
H4	mm	1625
	inch	64
H5	mm	700
	inch	27.6
H6	mm	1416
	inch	55.8
H7	mm	1630
	inch	64.2
H8	mm	394
	inch	15.5
H9	mm	1077
	inch	42.4
H10	mm	1120
	inch	44.1
H11	mm	3480
	inch	137
D	mm	2000
	inch	78.7
D1	mm	1740
	inch	68.5
D2	mm	5470
	inch	215.4
D3	mm	560
	inch	22
W1	mm	1740
	inch	68.5
W2	mm	2730
	inch	107.5
W3	mm	800
	inch	31.5
W4	mm	800
	inch	31.5
W5	mm	215x215
	inch	8.5x8.5
Weight	kg	4060
	lb	8951
	kg	4710
	lb	10384

Notes: 1) SKD11 is steel grade of Japanese JIS standard.
 2) Maximum throughput of granulator is subject to the diameter and material of screen mesh. For granulating frame and shell materials, maximum throughput will be reduced about half.
 3) Noise level varies with different materials and motor types.
 4) Noise level is tested under conditions of 1m around the machine and 1.6m from the ground.
 5) To avoid plastic form sticking to the blades, all materials should be crushed at normal temperature.
 6) Power supply : 3Φ, 230/400/460/575VAC, 50/60Hz.

SG-43/50/70 Series

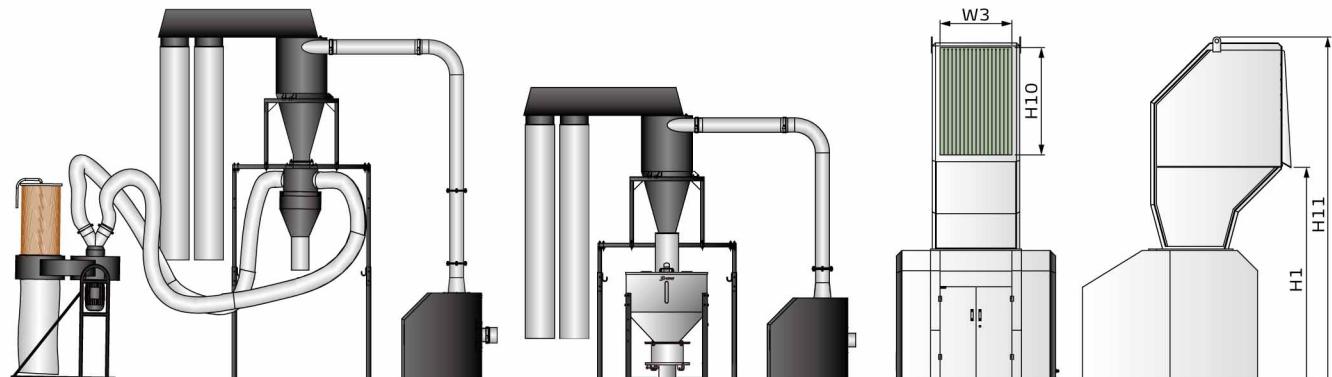
■ Outline Drawings(SG-70)



Optional DS+500kg material storage tank

Optional side Feed Pipe

Optional conveyor belt



Optional DS

Optional material storage tank

Optional height-increasing storage bin

■ Specifications(SG-70)

Model		SG-7090	SG-70120
Motor Power (kW, 50/60Hz)		75	90
Rotating Speed (rpm, 50/60Hz)		525	525
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)		2x2 (3x2)	2x2 (3x2)
Quantity of Rotating Blades (Optional)		3x2 (5x2)	3x2 (5x2)
Cutting Chamber	mm	700 × 900	700 × 1200
	inch	27.6 × 35.4	27.6 × 47.2
Max. Output	kg/hr	1300	1800
	lb/hr	2866	3968
Noise Level dB(A)		115	115
Dimension	H (mm)	mm	3950
		inch	155.5
	H1 (mm)	mm	2815
		inch	110.8
	H2 (mm)	mm	840
		inch	33
	H3 (mm)	mm	3100
		inch	122
	H4 (mm)	mm	1625
		inch	64
	H5 (mm)	mm	1370
		inch	53.9
	H6 (mm)	mm	1770
		inch	69.7
	H7 (mm)	mm	1419
		inch	55.9
	H8 (mm)	mm	846
		inch	33.3
	H9 (mm)	mm	1077
		inch	42.4
	H10 (mm)	mm	1340
		inch	52.8
	H11 (mm)	mm	4450
		inch	175.2
W1 (mm)	mm	2000	2300
	inch	78.7	90.6
	mm	2730	2730
	inch	107.5	107.5
W2 (mm)	mm	900	1200
	inch	35.4	47.2
	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
D2 (mm)	mm	6840	6840
	inch	269.3	269.3
D3 (mm)	mm	600	600
	inch	23.6	23.6
Weight (kg)	kg	4500	5000
	lb	9,921	11,023

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/39.3' around the machine and 1.6m/63' from the ground.

5) To avoid plastics 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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