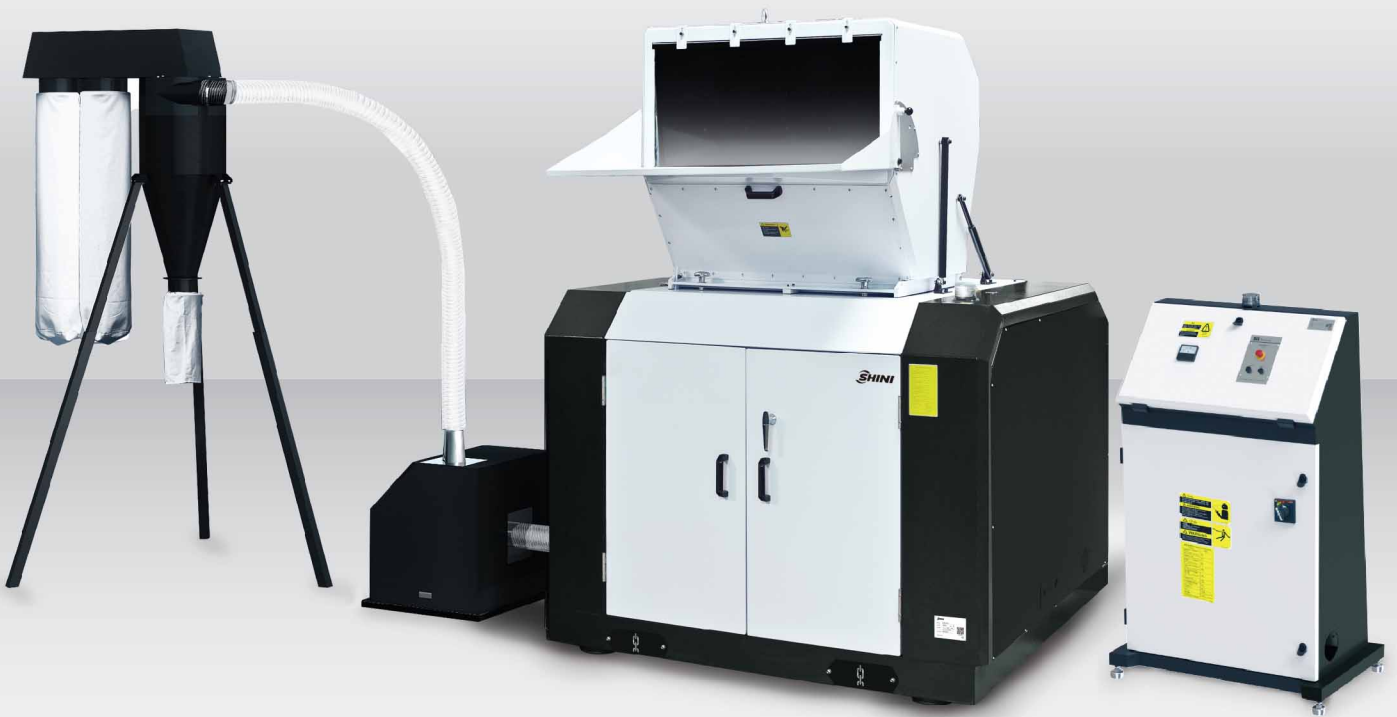




Sound-proof Central Granulator

SG-4390

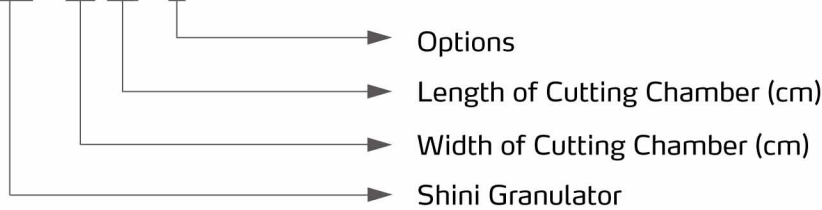


Refer carefully to this manual before operation.

SG-43/50/70 Series

■ Coding Principle

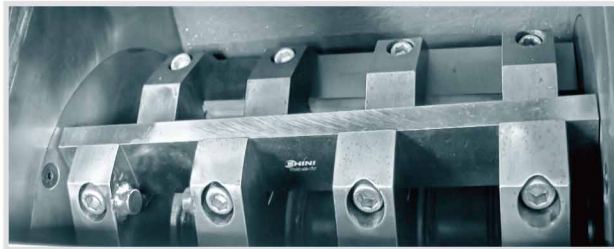
SG - xx xx - x



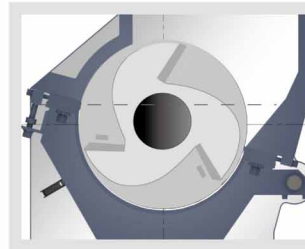
■ Features

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

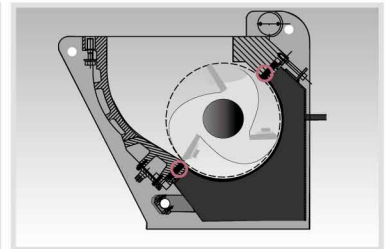
Components in the cutting chamber have been finely finished by CNC lathe, enjoying high accuracy; staggered cutters and structure can effectively disperse impact load and improve cutting efficiency; blade rest needing no adjustment makes it more convenient to change blades.



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.



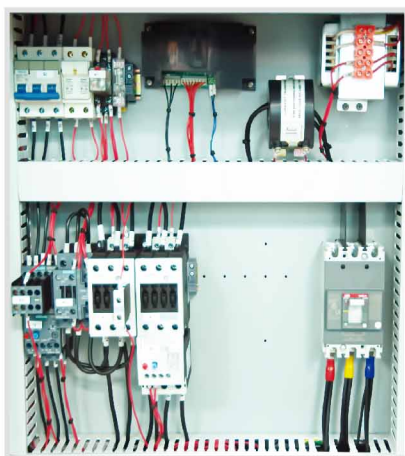
- **Presetting Knife Jig**

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



- **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.



- **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.



- **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.



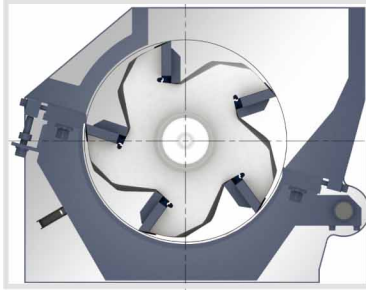
■ Application

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

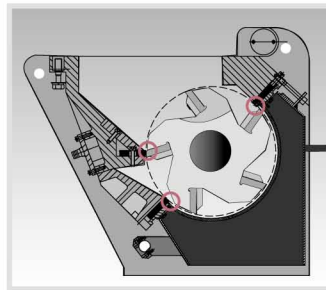
Options

Two Fixed plus Five Rotating Blades



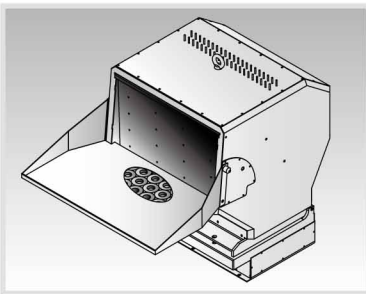
Two fixed plus five rotating blades are optional with a small feed port of cutting chamber, suitable for granulating block and solid, thick sheet material. Suitable for SG-43.

Three Fixed plus Five Rotating Blades



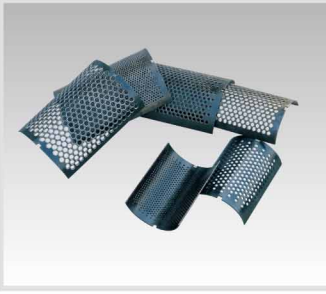
High cutting point fixed blades model has small inlet space and initially high cutting point. Thus its cutting force is not so strong, which enhances the reliability of cutting solid material. This design is suitable for granulating big solid material with thick wall and sheet.- Suitable for SG-50/70.

Feed Hopper with Magnet



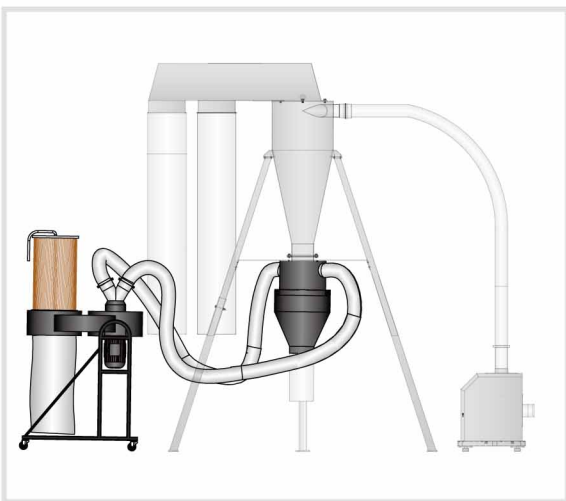
Feed hopper with magnet is used to take out metal craps and impurities in the material. (Except SG-70 series) Add "FHM" at the end of the model code.

Special Screens

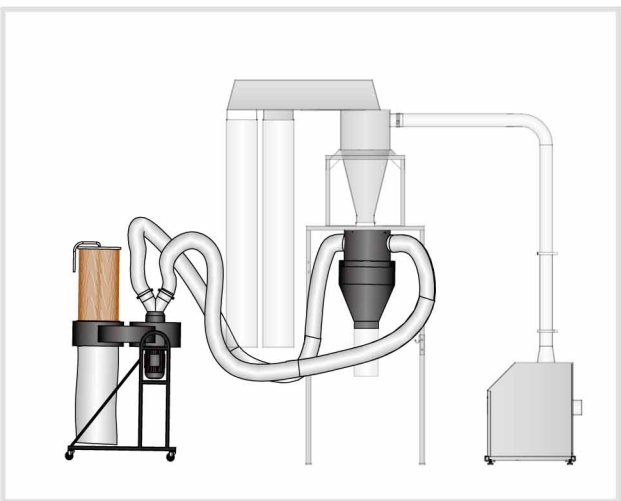


Φ8, Φ10, Φ17, Φ25(mm) are optional for SG-43;
Φ8, Φ10, Φ14, Φ17, Φ25 (mm) are optional for SG-50;
Φ10, Φ14, (mm) are optional for SG-70.
Add "SS + screen diameter" at the end of the model code, e.g.: Φ8mm , add "SS08".

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

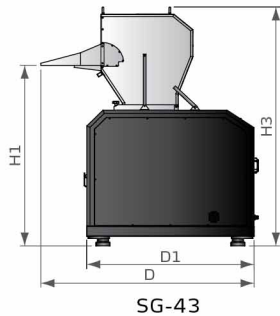


In order to meet the needs of customers to crush longer materials, such as car bumpers, optional Height-increasing storage bin (only suitable for SG-50/70). Add "FH" at the end of the model code.

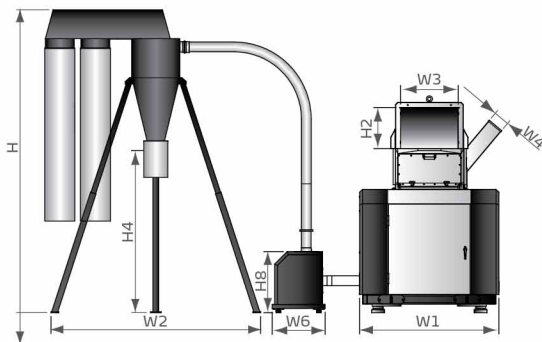
- The function of fiber reinforced material granulating is optional. Adopt surface-hardening treatment on the material contacting component. And blade material is V-4E joint with S50C. Add "F" at the end of the model code.
- For stainless steel made feed hopper cover plate and storage tank, Add "R" at 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

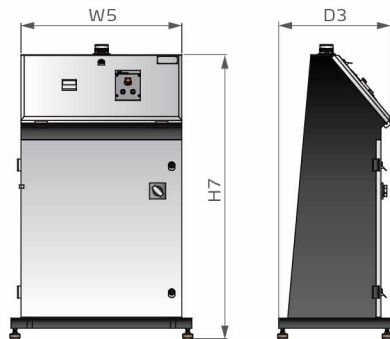
Outline Drawings (SG-43)



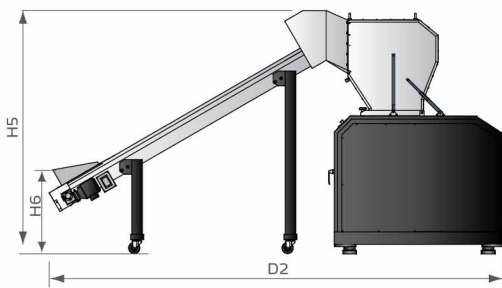
SG-43



Collocated with the power increased feeding blower



Control box



Optional conveyor belt

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	430 x 600	430 x 900
	inch	16.9 x 23.6	16.9 x 35.4
Max. Output	kg/hr	800	1000
	lb/hr	1764	2205
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)
Dimensions	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)	2730 (2780)
	lb	5181 (5357)	6019 (6129)

Notes: 1) "○" stands for optional.

2) SKD11 is steel grade of Japanese JIS standard.

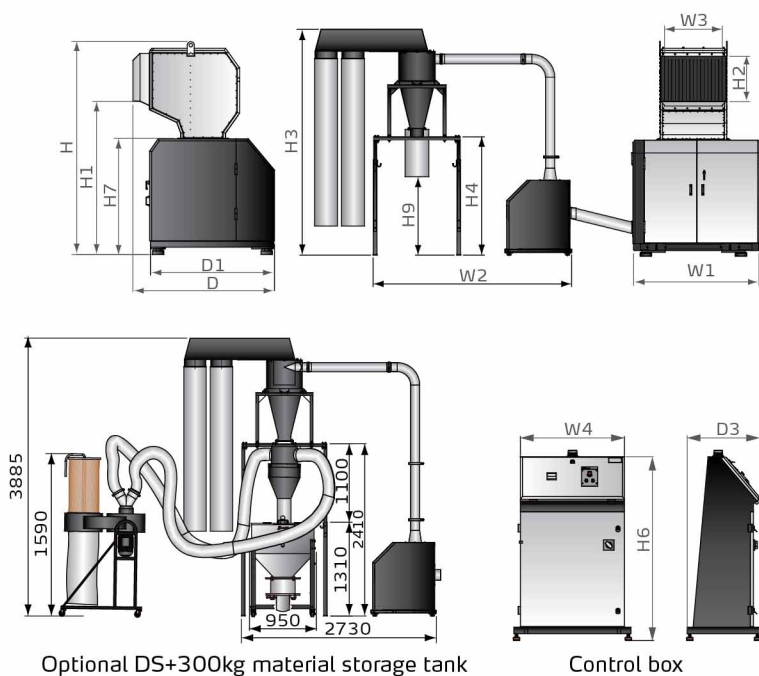
3) Max. capacity of the machine is subject to diameter of screen mesh and composition of the material.

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.

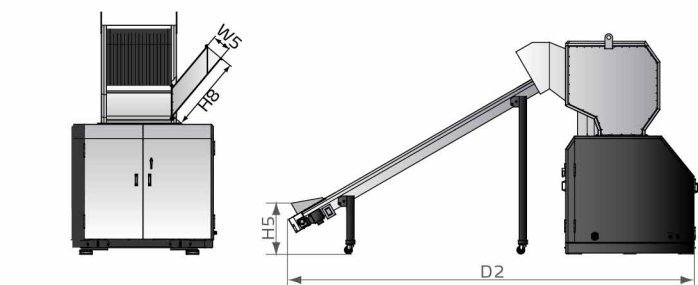
6) Power supply : 3Φ, 230/400/460/575VAC, 50/60Hz.

■ Outline Drawings(SG-50)



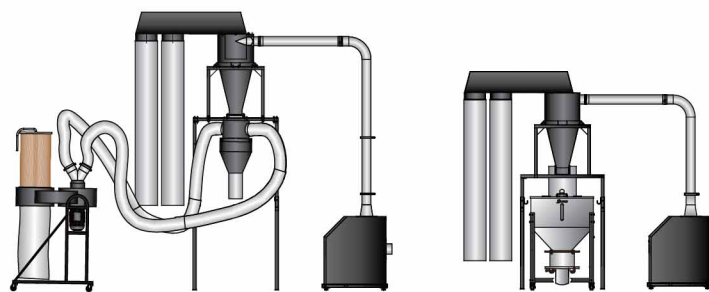
Optional DS+300kg material storage tank

Control box



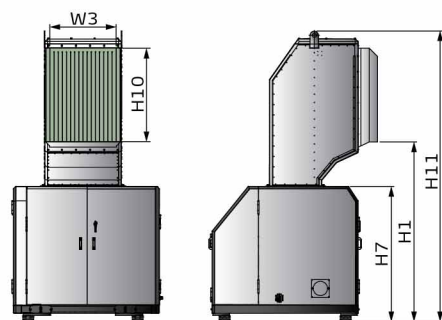
Optional side Feed Pipe

Optional conveyor belt



Optional DS

Optional material storage tank



Optional height-increasing storage bin

■ 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)		2×2 (3×2)	2×2 (3×2)	
Quantity of Rotating Blades		3×2 (5×2)	3×2 (5×2)	
Cutting Chamber		500x800	500x1100	
Max. Output		1100	1500	
Noise Level dB(A)		105~110		
Screen		Φ12mm/0.47"		
Dimension	H	mm	2980	2980
		inch	117.3	117.3
	H1	mm	2170	2170
		inch	85.1	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	2040
		inch	68.5	80.3
	W2	mm	2730	
		inch	107.5	
	W3	mm	800	1100
		inch	31.5	43.3
	W4	mm	800	
		inch	31.5	
W5	mm	215x215		
	inch	8.5x8.5		
Weight	kg	4060	4710	
	lb	8951	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.

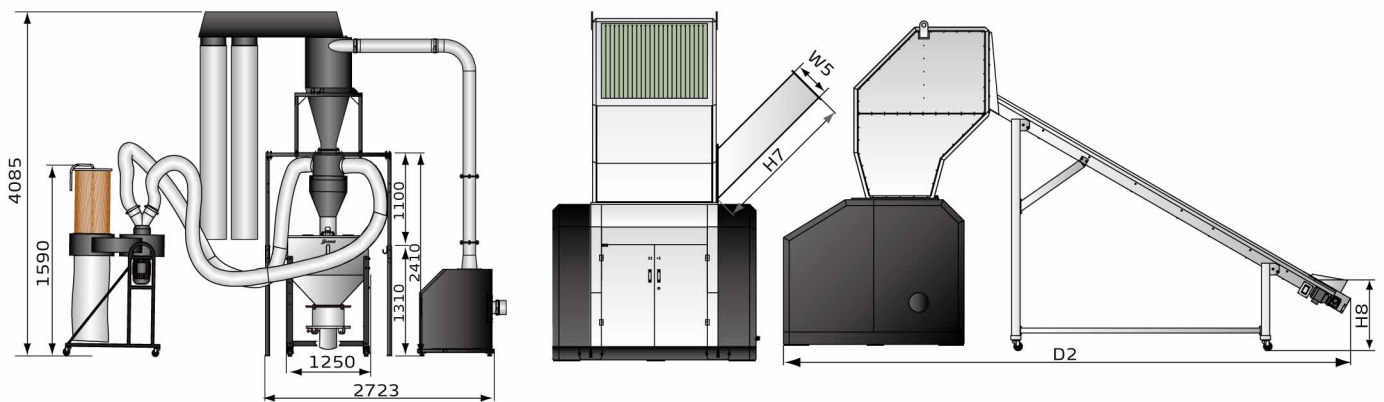
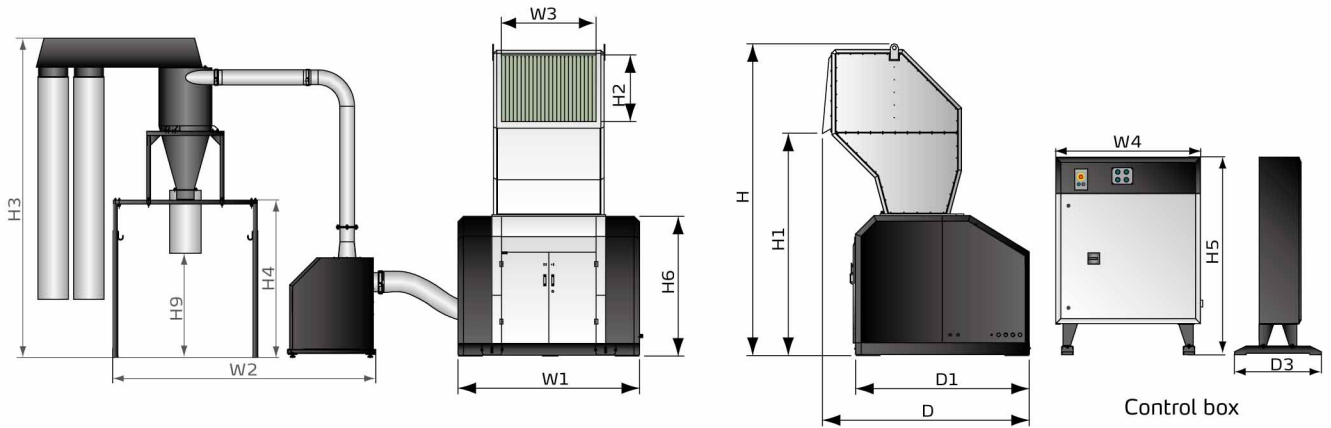
4) Noise level is tested under conditions of 1m around the machine and 1.6m from the ground.

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

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

SG-43/50/70 Series

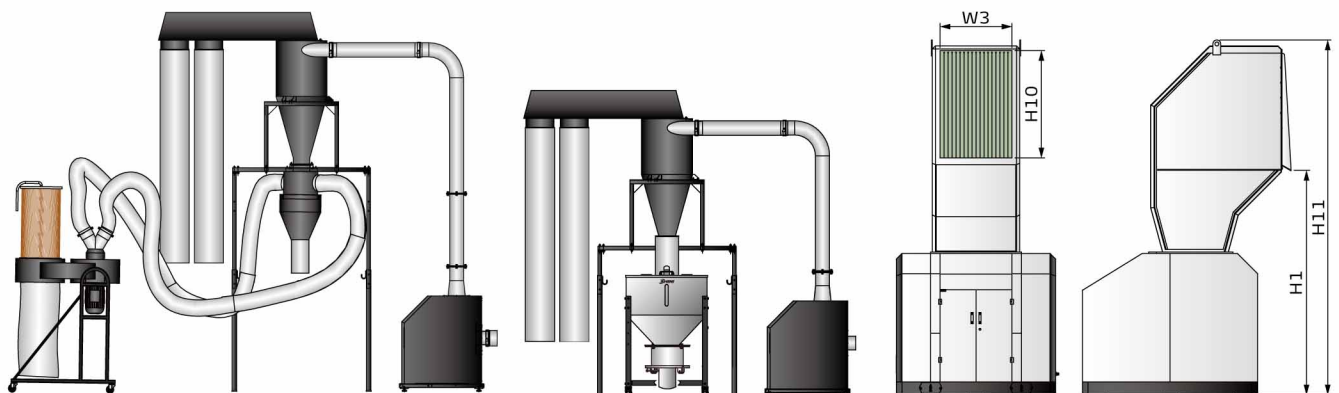
Outline Drawings(SG-70)



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)			2×2 (3×2)	2×2 (3×2)
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
		lb/hr	2866	3968
Noise Level dB(A)			115	115
Dimension	H (mm)	mm	3950	3950
		inch	155.5	155.5
	H1 (mm)	mm	2815	2815
		inch	110.8	110.8
	H2 (mm)	mm	840	840
		inch	33	33
	H3 (mm)	mm	3100	3100
		inch	122	122
	H4 (mm)	mm	1625	1625
		inch	64	64
	H5 (mm)	mm	1370	1370
		inch	53.9	53.9
	H6 (mm)	mm	1770	1770
		inch	69.7	69.7
	H7 (mm)	mm	1419	1419
		inch	55.9	55.9
	H8 (mm)	mm	846	846
		inch	33.3	33.3
	H9 (mm)	mm	1077	1077
		inch	42.4	42.4
	H10 (mm)	mm	1340	1340
		inch	52.8	52.8
	H11 (mm)	mm	4450	4450
		inch	175.2	175.2
	W1 (mm)	mm	2000	2300
		inch	78.7	90.6
	W2 (mm)	mm	2730	2730
		inch	107.5	107.5
	W3 (mm)	mm	900	1200
		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
	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/39.9' 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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