



## Screenless Granulator

SG-2427N

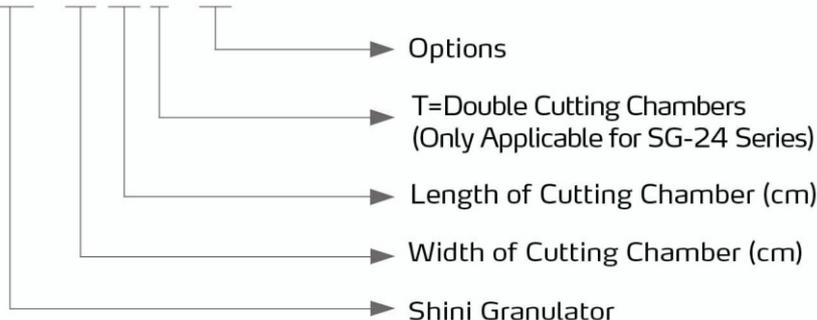


Refer carefully to this manual before operation.

# SG-14/24N/24T

## ■ Coding Principle

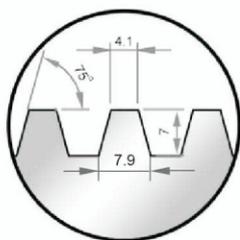
SG - xx xx x - xx



SG-1417

## ■ Features

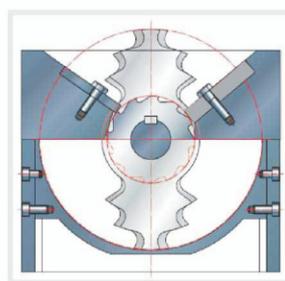
- Adopt globally well-know gear motor.
- SG-24T adopts two sets of a globally well-know gear motor and cutting chambers.
- SG-14/24N series features integrated teeth cutters and cutting blades design. Cutting blades break large spurs into smaller pieces, and teeth cutter bites the material into the desired size with less dust and ready to be reused with virgin material.
- New-type inclined teeth cutter reduces the possibility of stress concentration, then enhance cutter lifespan and reduction in dust.
- SG-14/24T/24N series motor shaft and rotor shaft are connected by shaft coupling thus ensuring convenient motor replacement.
- When motor blockage occurs, the machine will alarm visibly and enable motor to run reversely. It will return to normal operation automatically after the trouble is clear.
- Compact design, small footprint for easy cleaning and maintenance. Transparent PC feeding hopper.



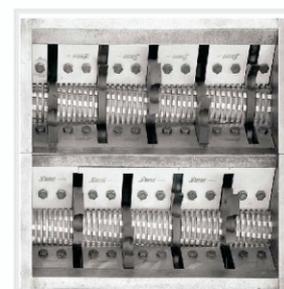
Standard Teeth Cutter  
(only for SG-24N)



SG-2446T



Section View of  
Trapezoid Teeth Cutter

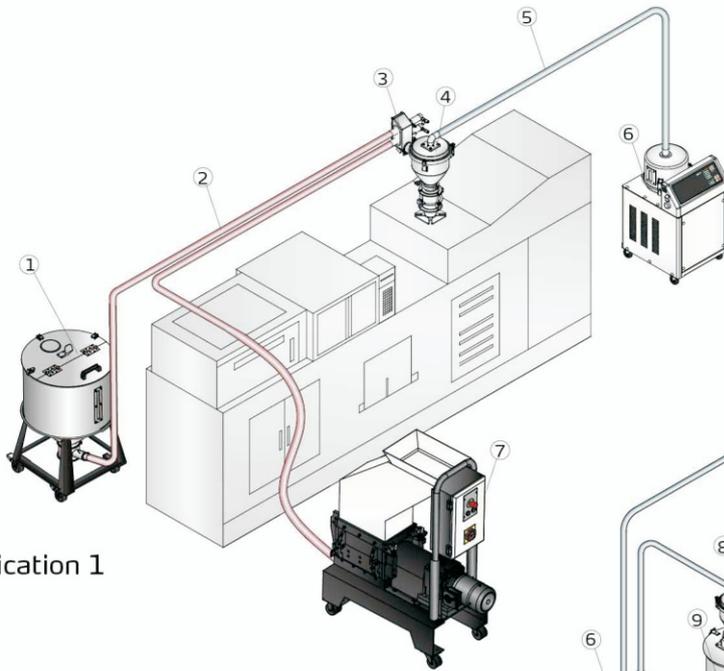


SG-24T  
Double Teeth Cutter

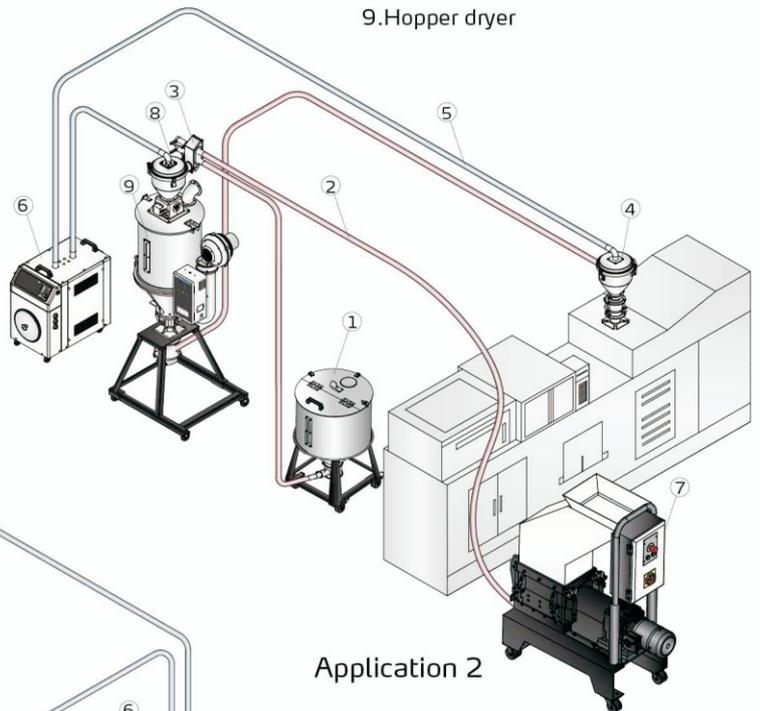
## Application

1. Material storage tank
2. Material line
3. Proportional valve
4. Photosensor hopper receiver
5. Vacuum line
6. Main vacuum unit
7. Screenless granulator
8. Vacuum hopper receiver
9. Hopper dryer

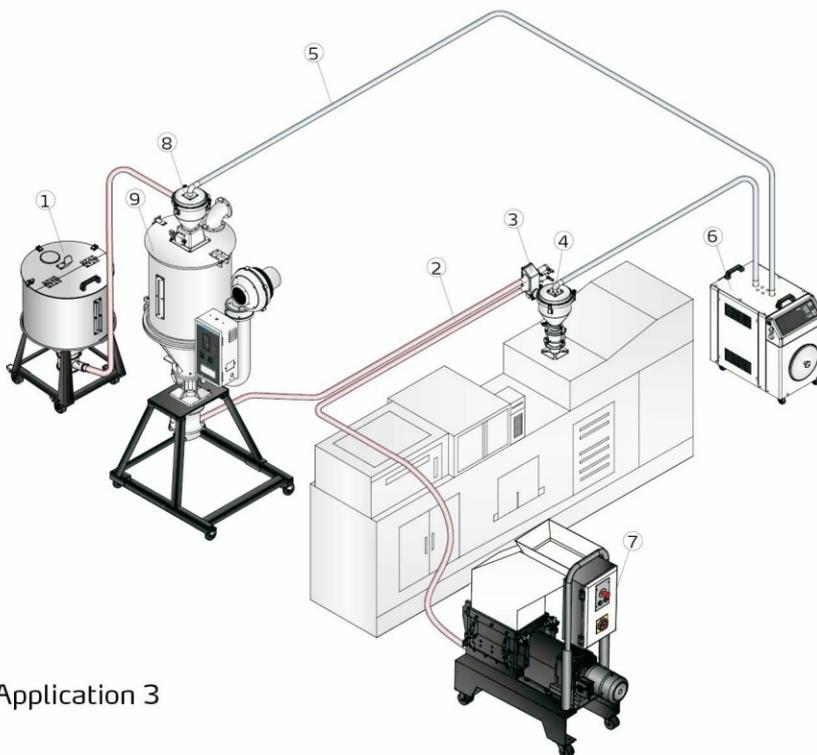
Application 1



Application 2



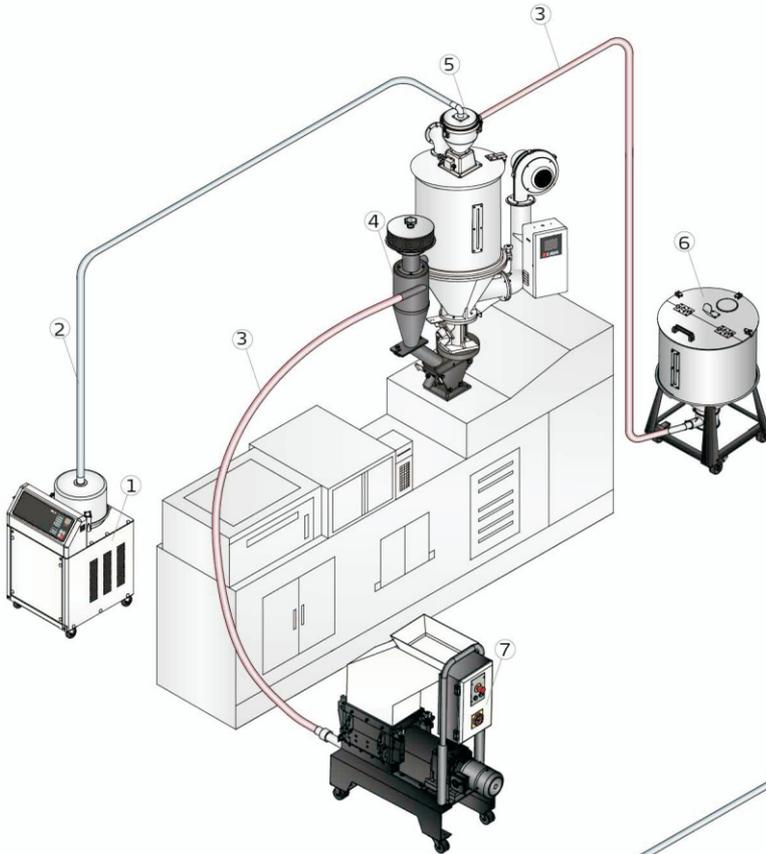
Application 3



# SG-14/24N/24T

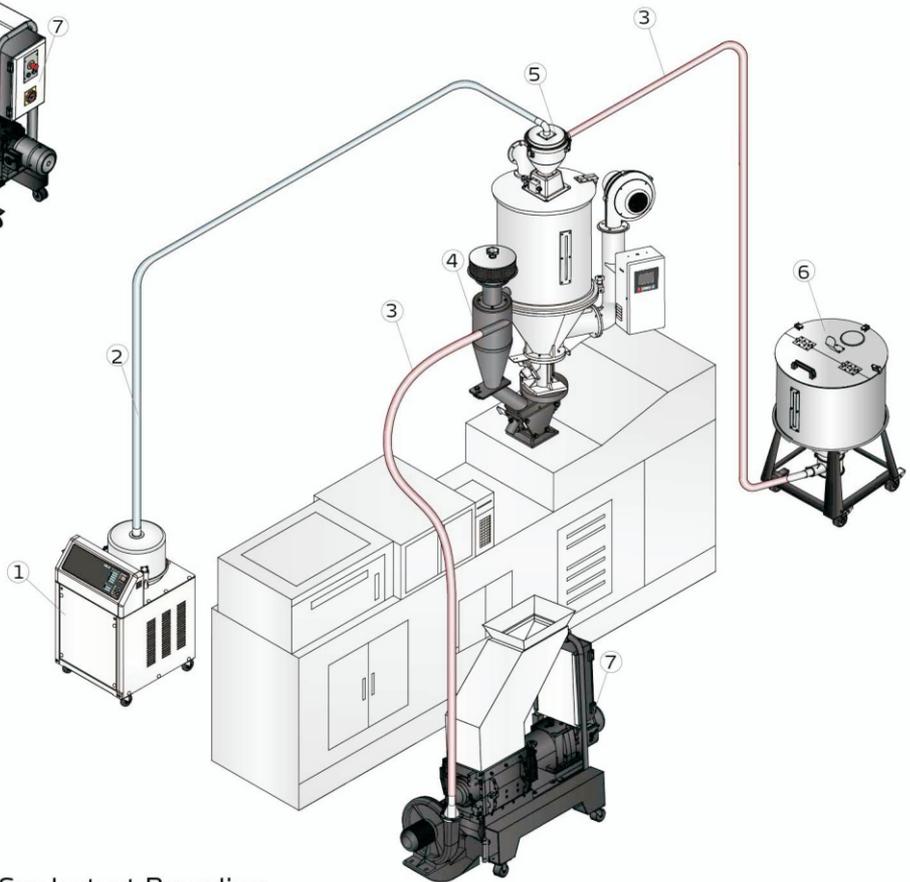
## Options

### 30-Sec Instant Recycling System (Patented Product)



- 1. Main vacuum unit
- 2. Vacuum line
- 3. Material line
- 4. 30-sec. instant recycling system
- 5. Vacuum hopper receiver
- 6. Material tank
- 7. Screenless granulator

VR Type 30-Sec Instant Recycling



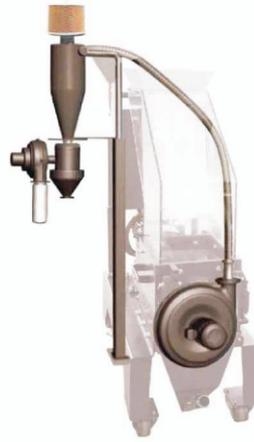
BR Type 30-Sec Instant Recycling

### Regrind Conveying via Blower & Cyclone (BC Type)



This device utilizes conveying blower to convey regrind into the cyclone dust collector to separate the regrind from the air and then the regrind will fall into storage hopper or cloth bag. Applicable to SG-24N/24T series.

### Dust Separator (DS Type)



Dust Separator (DS type) can enhance dust separation with regrind for immediate use. The dust will be kept in filter bag, thus working environment will be maintained clean. This device ensures full use of regrind to avoid material wasting and enhance the economical returns. Applicable to SG-24N/24T series.

### Full-receiver Alarm Device

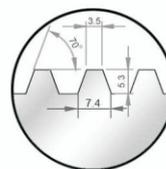
Full-receiver alarm device can help to realize unmanned operation and no materials will be wasted. Whenever the regrind level reaches the motor position, the machine will be forced to stop and be cut off via it is sensor, thus stop the granulator and warn the user by sounding an alarm. add "FAD" at the end of the model code, Applicable to SG-24N/24T series.

### Manual Collection Bin

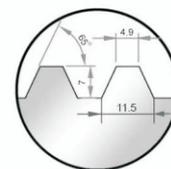
Manual collection bin helps to collect and store regrind. Applicable to SG-24T series.



### Teeth Cutter(Only for SG-24N Series)

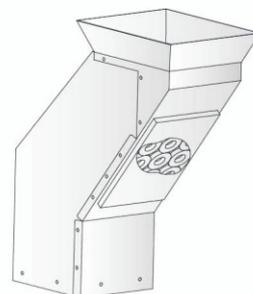


Narrow



Dilated

### Feeding port magnet

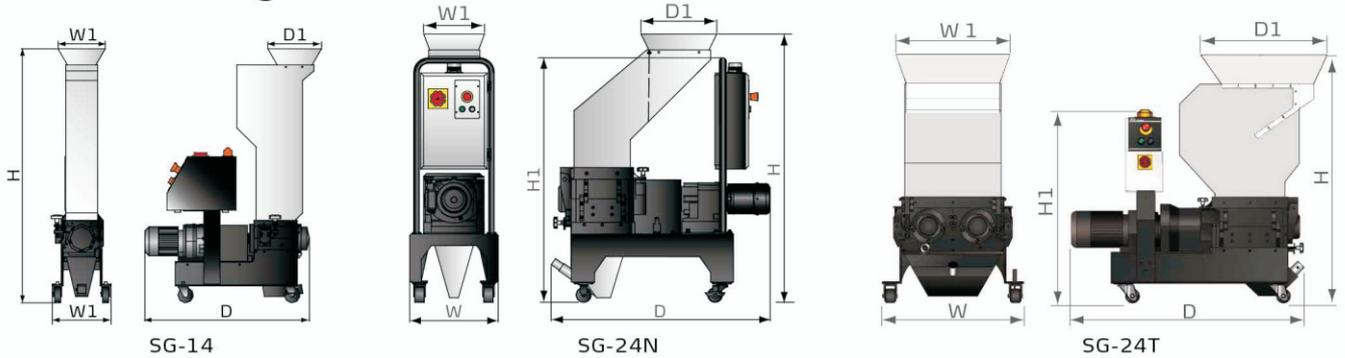


Feeding port magnet: The magnet is added at the feeding port inlet to absorb metal impurities in the materials, which is optional for 24N series and add "FHM" at the end of the model code.

- Stainless steel made feed port and storage tank, add "R" at the end of the model code.

# SG-14/24N/24T

## Outline Drawings



## SG-14/24N/24T Specifications

Model	SG-1411	SG-1417	SG-2417N	SG-2427N	SG-2436N	SG-2446N	SG-2436T	SG-2446T		
Motor Power (kW, 50/60Hz)	0.37/0.45	0.37/0.45	0.75/0.86	0.75/0.86	1.5/1.75	2.2/2.57	2.2x2/2.55x2			
Rotating Speed (rpm, 50/60Hz)	26/32	26/32	27/33	27/33	27/33	27/33	27/33	27/33		
Material of Teeth Cutter	SKD11	SKD11	SKD11	SKD11	SKD11	SKD11	SKD11	SKD11		
Quantity of Staggered Cutter	1	2	1	2	3	4	7	9		
Quantity of Teeth Cutter	2	3	2	3	4	5	/	/		
Quantity of Large Teeth Cutter	/	/	/	/	/	/	7	9		
Quantity of Small Teeth Cutter	/	/	/	/	/	/	2	2		
Cutting Chamber	mm	140 x 110	140 x 175	240 x 175	240 x 270	240 x 365	240 x 460	505 x 365	505 x 460	
	inch	5.5 x 4.3	5.5 x 6.9	9.4 x 6.9	9.4 x 10.6	9.4 x 14.4	9.4 x 18.1	19.9x14.4	19.9x18.1	
Max. Output Capacity (kg/hr, 50/60HZ)	2	3	3.5	6/6.5	8.5/9	11/11.6	20	25		
Noise Level dB(A)	60-68	60-68	80-85	80-85	80-85	80-85	80-85	80-85		
Dimension	H	mm	1080	1080	1370	1370	1400	1410	1360	1360
		inch	42.5	42.5	53.9	53.9	55.1	55.5	53.5	53.5
	H1	mm	/	/	1248	1248	1248	1248	1060	1060
		inch	/	/	49.1	49.1	49.1	49.1	41.7	41.7
	W	mm	290	290	425	425	425	425	773	773
		inch	11.4	11.4	16.7	16.7	16.7	16.7	30.4	30.4
	W1	mm	235	235	308	308	308	308	620	620
		inch	9.3	9.3	12.1	12.1	12.1	12.1	24.4	24.4
	D	mm	740	785	977	1112	1253	1410	1269	1365
		inch	29.1	30.9	38.5	43.8	49.3	55.5	50	53.7
	D1	mm	210	266	289	385	475	546	688	785
		inch	8.3	10.5	11.4	15.2	18.7	21.5	27	30.9
Weight	kg	83	92	215	240	257	330	530	560	
	lb	183	203	474	529	567	728	1168	1235	

- Notes: 1) Max. Capacity of the machine is subject to the size and composition of the material.  
 2) Noise level will varies with different materials and motor types.  
 3) SKD11 is JIS steel grade.  
 4) teeth cutter with width of 3mm is standard, and 4mm is optional (SG-14).  
 Trapezoidal teeth cutter is standard; narrow and dilated one are optional (SG-14N/24T).  
 5) To avoid plastic from sticking to the blades, all materials should be crushed at normal temperature.  
 6) Power supply: 3Φ, 230/400/460/575 VAC, 50/60Hz.

We reserve the right to change specifications without prior notice.



## Low-speed Granulator

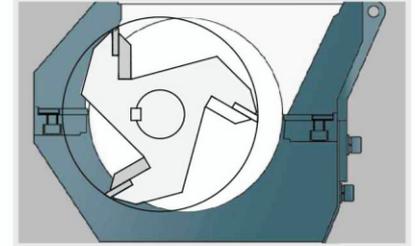
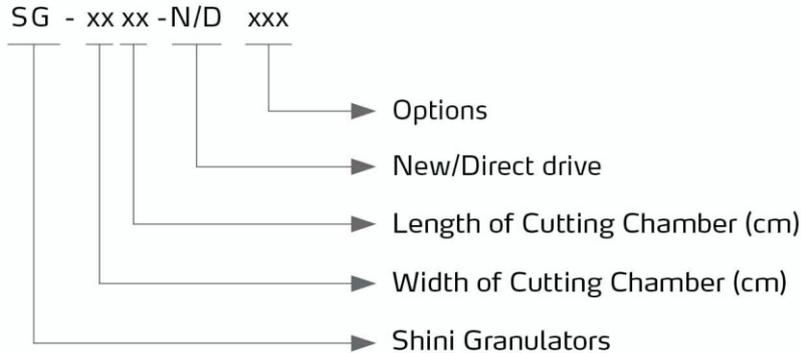
SG-1628N



Refer carefully to this manual before operation.

# SG-16N/20N Series

## ■ Coding Principle



SG-16N Structural Drawing of Staggered Blades

## ■ Features

- SG-16N series staggered blades design improves cutting efficiency. Easy to replace and adjust the blades.
- SG-20N series is equipped with presetting knife jig, which enables to reshape of the blades and installation without too much cost and time.
- Cutting chamber surrounded material collector to avoid re-grind leakage.
- Optimal cutting angle makes resistance small and avoid blockage to improve cutting efficiency.
- Optimal design can effectively reduce vibration during operation of granulator.
- Low speed granulating ensures well-proportioned granules and low dust level .
- Low speed and sound-proof material hopper brings a quiet operation environment.
- Easy access to easy maintenance and cleaning.
- Small footprint and portable design.
- High safety grade design to comply with industrial safety standard.
- With optional magnet installed at the inlet of the feeding chamber, metal impurities in the materials can be avoided.



SG-16N Staggered Blades



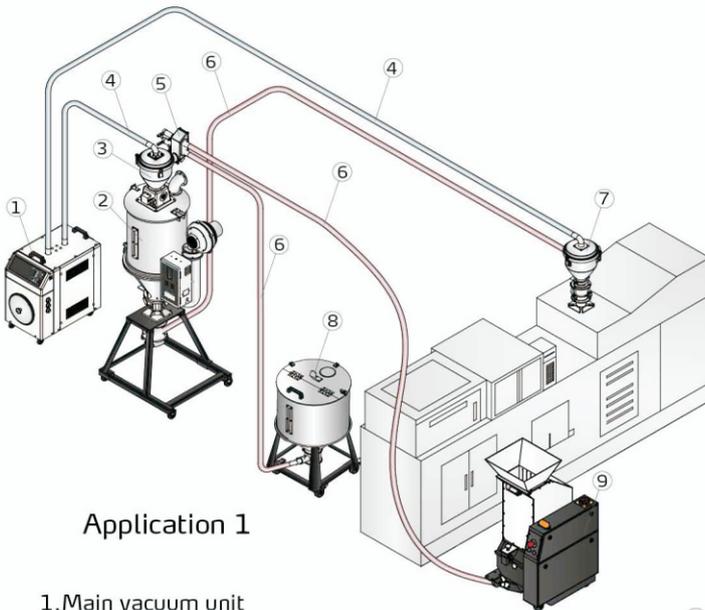
SG-20N Paddle Blades



Presetting Knife Jig

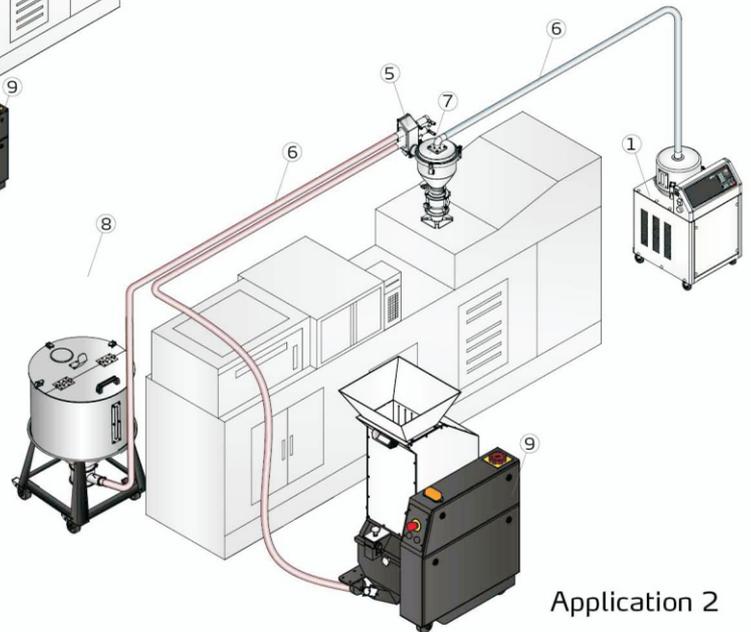
## Application

SG-16N/20N series low-speed granulators are suitable for crushing sprues material and a few rejects. It is set on the side of injection moulding machine and picker, collocating with belt conveyor. It features low speed, big driving torque, low noise, little dust level and simple operation.



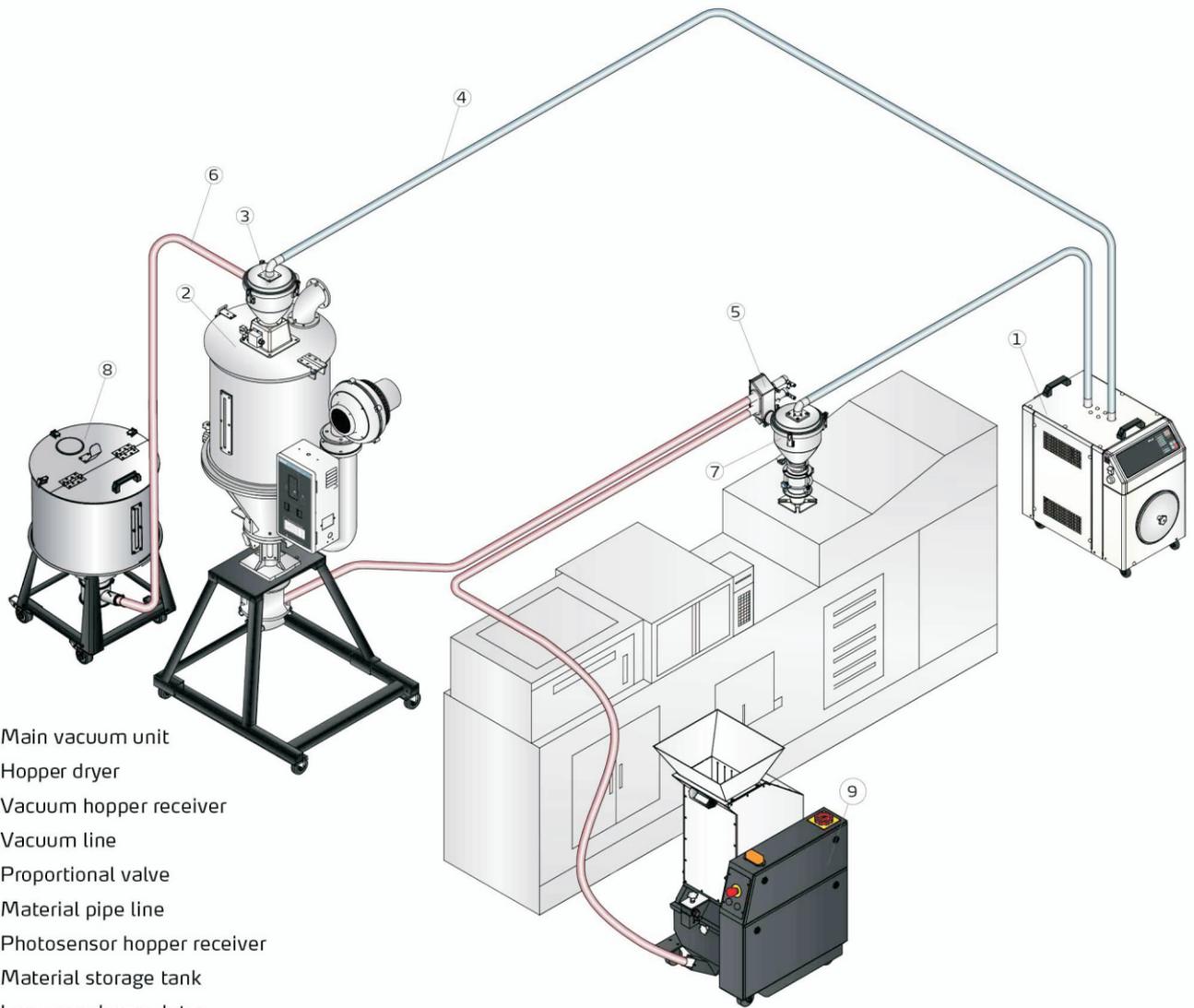
Application 1

1. Main vacuum unit
2. Hopper dryer
3. Vacuum hopper receiver
4. Vacuum line
5. Proportional valve
6. Material pipe line
7. Photosensor hopper receiver
8. Material storage tank
9. Low-speed granulator



Application 2

# SG-16N/20N Series

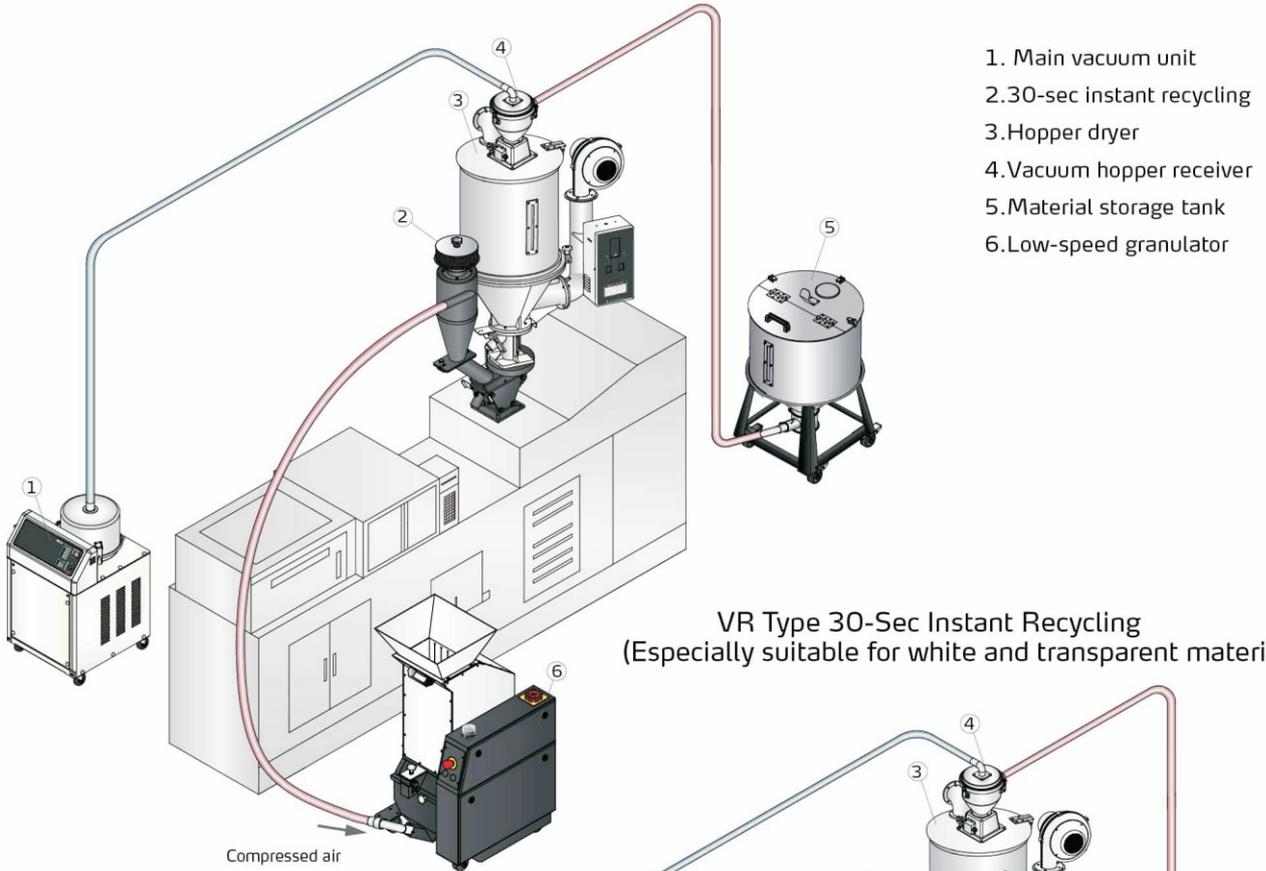


1. Main vacuum unit
2. Hopper dryer
3. Vacuum hopper receiver
4. Vacuum line
5. Proportional valve
6. Material pipe line
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9. Low-speed granulator

Application 3

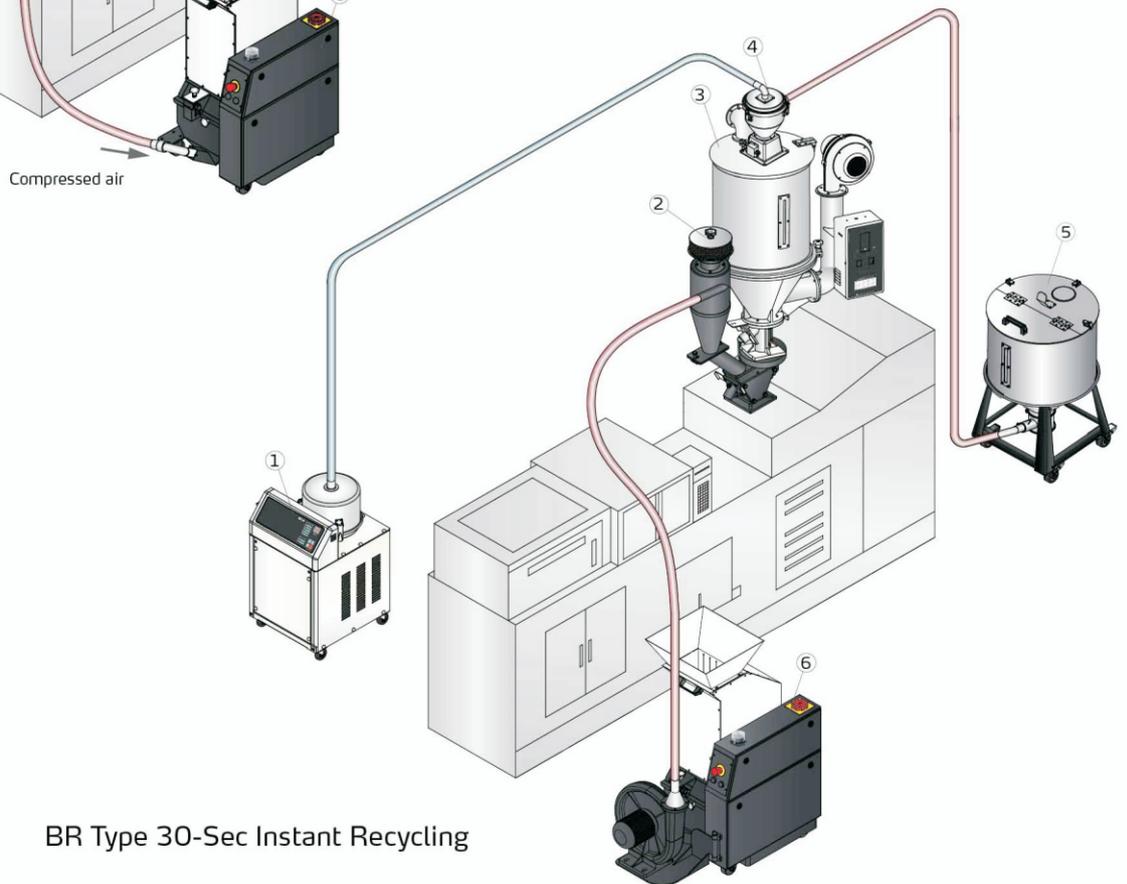
## Options

### 30-Sec Instant Recycling System (Patented product)



1. Main vacuum unit
2. 30-sec instant recycling
3. Hopper dryer
4. Vacuum hopper receiver
5. Material storage tank
6. Low-speed granulator

### VR Type 30-Sec Instant Recycling (Especially suitable for white and transparent material)



### BR Type 30-Sec Instant Recycling

# SG-16N/20N Series

## Full-receiver Alarm Device

Full-receive alarm device can help 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 its sensor, thus stop the granulator and warn the user by sounding an alarm. Applicable to SG-16N/20N series.



Level Motor

## Regrind Conveying Via Blower & Cyclone (BC Type)

This device utilizes loading blower to convey regrind into the cyclone dust collector to separate the regrind from the air and then the regrind will fall into storage hopper or cloth bag. Applicable to SG-16N/20N series.

## Dust Separators (DS Type)

Dust Separator (DS type) can enhance dust separation with regrind for immediate use. The dust will be kept in filter bag, thus working environment will be maintained clean. This device ensures full use of regrind to avoid material wasting and enhance the economy returns. Applicable to SG-16N/20N series.

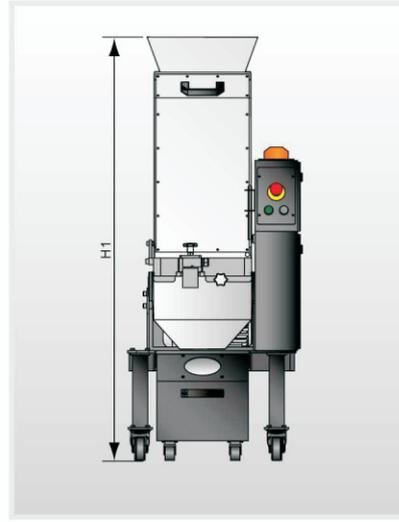


### Straight Hopper



Straight hopper has been designed to meet the demand of grinding pipes and runners. Applicable to SG-20N blades series(exclusive of SG-2028NH).

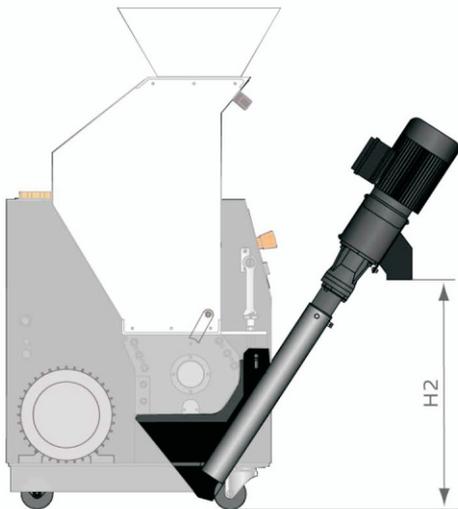
### Height-increasing storage bin



Height-increasing storage tank helps to collect and store regrind. Applicable to SG-16N/20N series.add "HT"at the end of the model code.

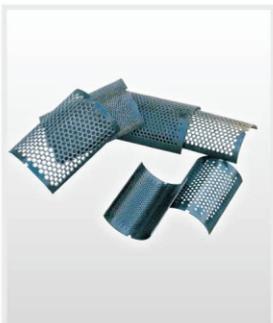
### Optionally Equipped with Coiled Spring Conveyor

Applicable to SG-16N/20N series. Add "EA"at the end of the model code.



- Select fiber-added material granulator model to process fiber-added material. The unit adopts surface-hardening treatment on the material contacting components and V-4E paddle blades. Add "F"at the end of the model code.
- Optional higher motor power add "H"at the end of the model code.
- For stainless steel made feed port and storage box, add "R" at the end of the model code.

### Special Screen



Special screen mesh sizes includes  $\Phi 4$ ,  $\Phi 6$ ,  $\Phi 8$ ,  $\Phi 10$ ,  $\Phi 12$ (mm), which are applicable to SG-16N series; and  $\Phi 4$ ,  $\Phi 5$ ,  $\Phi 7$ ,  $\Phi 8$   $\Phi 10$ ,  $\Phi 12$  (mm), which are applicable to SG-20N series. All can be selected to meet customer's requirement.

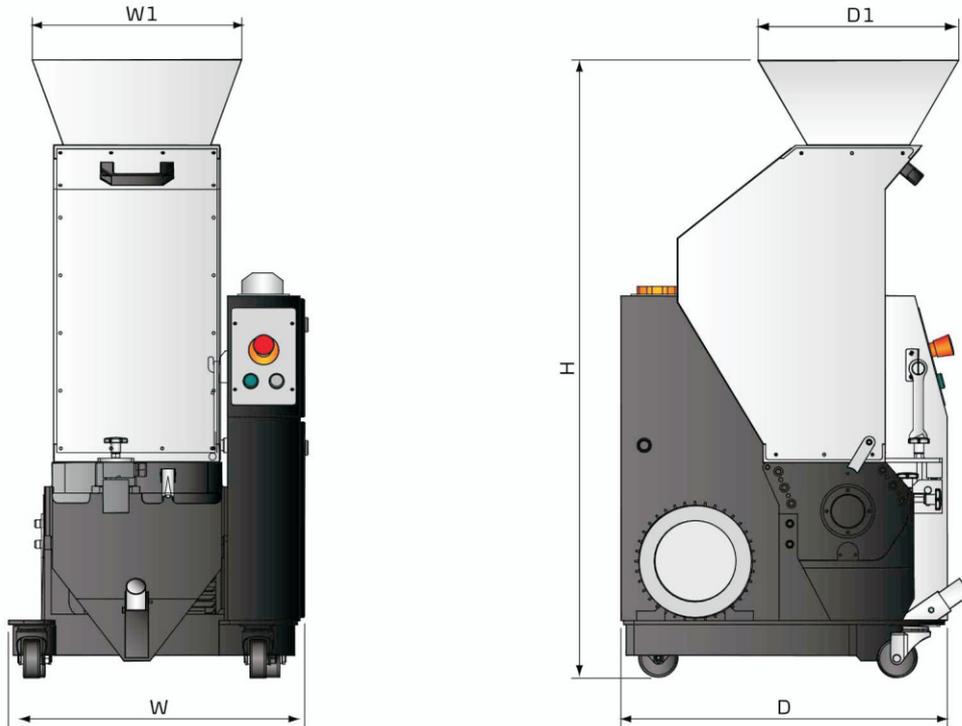
### Slant hole screen



Especially for the filtering of long strips, the slant hole screen  $\Phi 5$ mm and  $\Phi 6$ mm are optional to meet the demands of some customers. The user can choose the option according to their demands. Add "SS+ screen hole dia. + S" at the end of the model code, such as add "SS05S" for screen $\Phi 5$ .

# SG-16N/20N Series

## ■ Outline Drawings



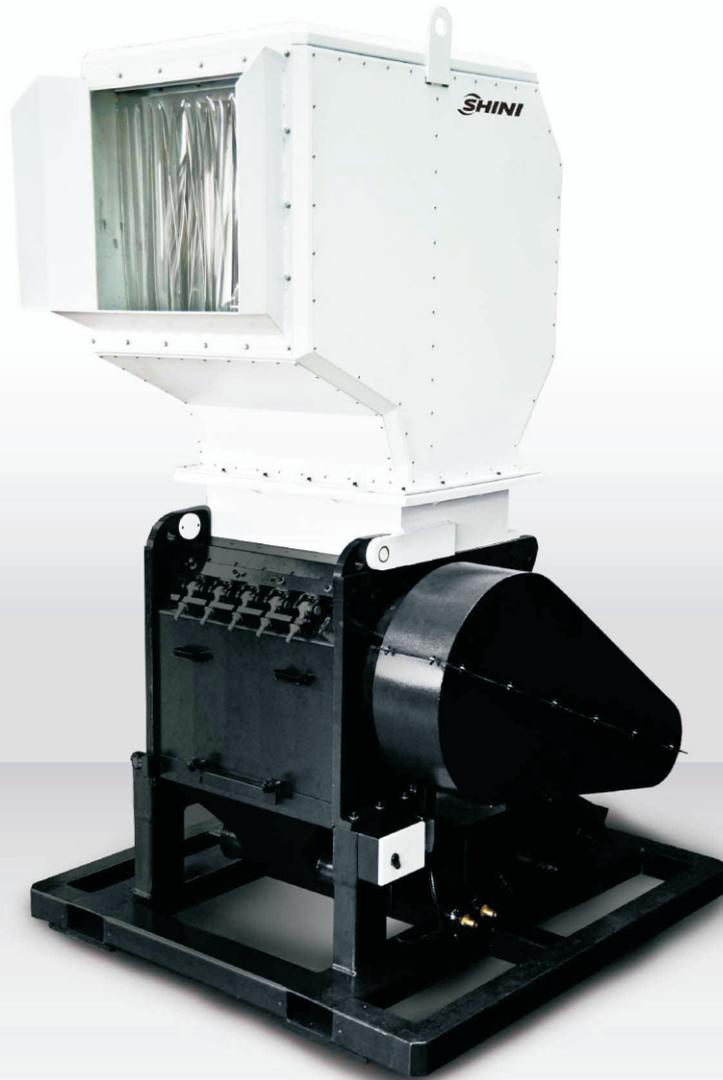
SG-16N/20N

## Specifications

Model	SG-	1621N	1628N	1635N(H)	2028N(H)	2028NC(H)	2042N(H)	2042NC(H)	
Motor Power (kW, 50/60Hz)		1.5 /1.75	2.2 /2.55	2.2 /2.55 (3.0 /3.45)	2.2/2.55 (3.0/3.45)	2.2/2.55 (3.0/3.45)	3.0/3.45 (4.0/4.6)	3.0/3.45 (4.0/4.6)	
Rotating Speed (rpm, 50/60Hz)		230/278	235 /285	235/285 (240/290)	290/350	290/350	290/350	290/350	
Material of Blades		SKD11	SKD11	SKD11	SKD11	SKD11	SKD11	SKD11	
Type of Blades		Staggered	Staggered	Staggered	Paddle Blades	Staggered	Paddle Blades	Staggered	
Quantity of Fixed Blades		2 × 1	2 × 1	2 × 2	2 × 1	2 × 1	2 × 1	2 × 1	
Quantity of Rotating Blades		3 × 3	3 × 4	3 × 5	3 × 1	3 × 4	3 × 1	3 × 6	
Presetting Knife Jig		-	-	-	✓	-	✓	-	
Cutting Chamber	mm	160 × 210	160 × 280	160 × 350	200 × 280	200 × 280	200 × 420	200 × 420	
	inch	6.3 × 8.3	6.3 × 11	6.3 × 13.8	7.9 × 11	7.9 × 11	7.9 × 16.5	7.9 × 16.5	
Max. Output Capacity		35	50	60 (80)	80	80	135	135	
Noise Level dB(A) (kg/hr, 50/60Hz)		85 ~ 90	85 ~ 90	85 ~ 90	85 ~ 90	85 ~ 90	85 ~ 90	85 ~ 90	
Dia. of Screen Mesh (mm)		(Φ5)	(Φ5)	(Φ5)	(Φ6)	(Φ6)	(Φ6)	(Φ6)	
Dimensions	H	mm	1200	1200	1200	1270	1270	1270	1270
		inch	47.2	47.2	47.2	50	50	50	50
	H1	mm	1400	1400	1400	1450	1450	1450	1450
		inch	55.1	55.1	55.1	57	57	57	57
	H2	mm	550	550	550	550	550	550	550
		inch	21.7	21.7	21.7	21.7	21.7	21.7	21.7
	W	mm	505	575	645	575	575	715	715
		inch	19.8	22.6	25.4	22.6	22.6	28.1	28.1
	W1	mm	330	400	470	367	367	507	507
		inch	13	15.7	18.5	14.4	14.4	20	20
	D	mm	630	630	630	695	695	695	695
		inch	24.8	24.8	24.8	27.4	27.4	27.4	27.4
	D1	mm	385	385	385	375	375	375	375
		inch	15.2	15.2	15.2	14.8	14.8	14.8	14.8
Weight	kg	175	195/185	210/225	265/280	265/280	300/315	300/315	
	lb	386	430/408	463/496	584/617	584/617	661/694	661/694	

- Notes: 1) "√" stands for standard, "○" stands for options, "-" stands for none.  
2) Max. capacity of the machine is subject to diameter of screen hole and composition of the material. The listed maximum output is tested continually with PET preforms.  
3) Noise level varies with materials and motor types.  
4) To avoid plastic from sticking to the blades, all materials should be crushed at normal temperature.  
5) "H" stands for motor power, "C" stands for staggered blade.  
6) Power supply: 3Φ, 400/460/575VAC, 50/60Hz.

We reserve the right to change specifications without prior notice.



Granulating & Recycling

# Central Granulator

Simple Solution





## "Budget" Series SG-EB

SG-2130EB

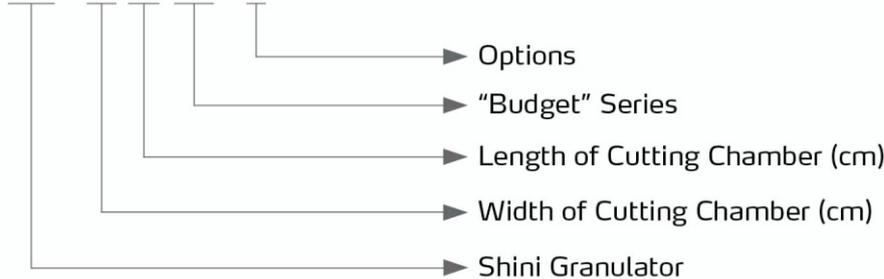


Refer carefully to this manual before operation.

# SG-EB Series

## ■ Coding Principle

SG - xx xx EB - x



Staggered Cutter

## ■ Features

- Staggered blades design can decentralize working load when granulating to increase cutting efficiency. (SG-60110EB adopts paddle-blade structure.)
- Cutters adjustment are available. Shaping after blunt ensures longer life service.
- Adopt adjustable bearing with base, mounted outside of cutting chamber's side plate of bearing for convenient installation and maintenance.
- Optimal design can effectively reduce vibration during operation of granulator.
- Equipped with motor overload relay and multiple safety devices to ensure machine safe operation.
- SG-3260EB and the models below are equipped with castor wheels. They have small footprint and are easy to move.



SG-4880EB

## ■ Application

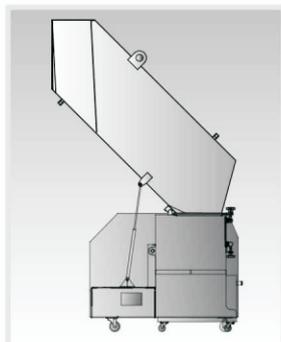
The granulators are applicable to granulate various kinds of plastic materials from injection molding, blow molding or wasted materials. To avoid plastic from sticking to the blades, all materials should be crushed at normal temperature.

## ■ Options



### Special Screen

Φ6, Φ10, Φ12 and Φ16 are special diameters of screen, being able to meet different production demands. Φ10, Φ14 and Φ16 are optional for SG-4880&SG-60110EB, add "SS + screen diameter" at the end of the model code, e.g.: Φ8mm, add "SS08".

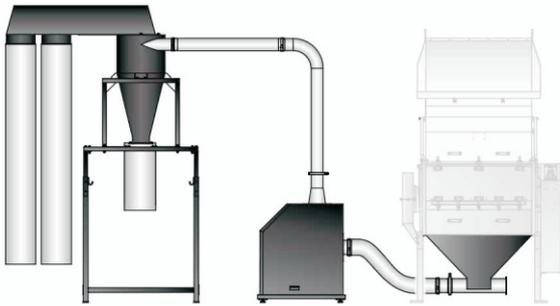


### Direct feed box

As to meet customer's demands on cutting strip thin-wall scraps (e.g. thin-walled strip automobile products), the direct feed box is optional for SG-3260EB and SG-3260EB, add "DF" at the end of the model code.

- For Fiber Reinforced materials, full fiber reinforced model is optional. Adopt surface-hardening treatment on the material contacting components blade material is V-4E joint with S50C, add "F" at the end of the model code.
- Feed port and storage tank are made of stainless steel, add "R" at the end of the model code.

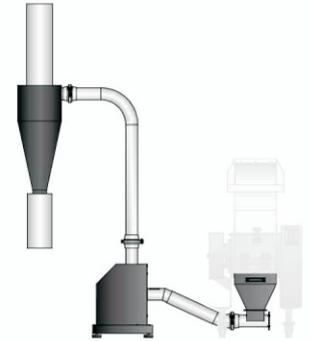
- The blower stands outside the machine. Without restriction of the inner space of the machine, customer can choose different kinds of blowers. Add "SC" at the end of the model code.



SG-60110EB

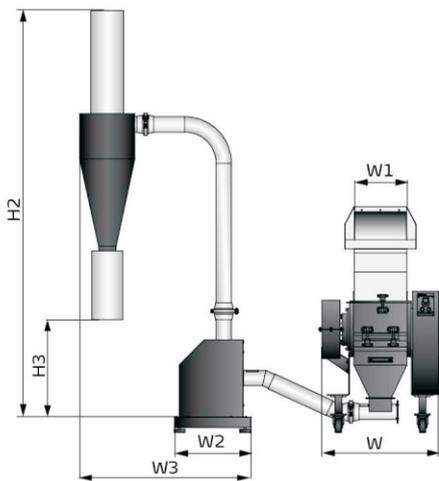


SG-4880EB

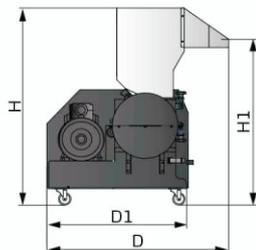


SG-3260EB and below

## Outline Drawings



Separated blower is optional

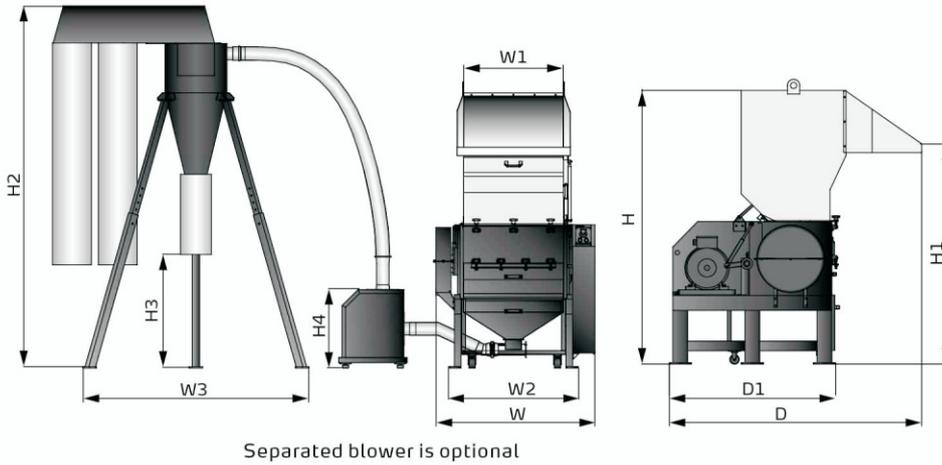


### SG-2130EB/2540EB/2950EB/3260EB

Model	SG-2130EB	SG-2540EB	SG-2950EB	SG-3260EB
H(mm)	1200	1385	1450	1600
H1(mm)	1010	1160	1175	1295
H2(mm)	2460	2460	2460	2460
H3(mm)	660	660	660	660
H4(mm)	540	540	540	540
W(mm)	680	775	885	1010
W1(mm)	300	400	500	600
W2(mm)	440	440	440	440
W3(mm)	990	990	990	990
D(mm)	1105	1330	1430	1515
D1(mm)	860	970	1020	1070

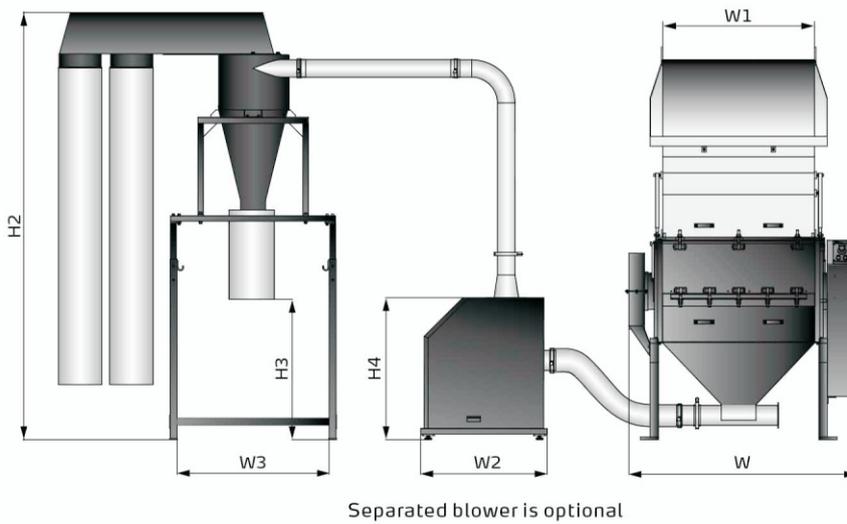
# SG-EB Series

## Outline Drawings



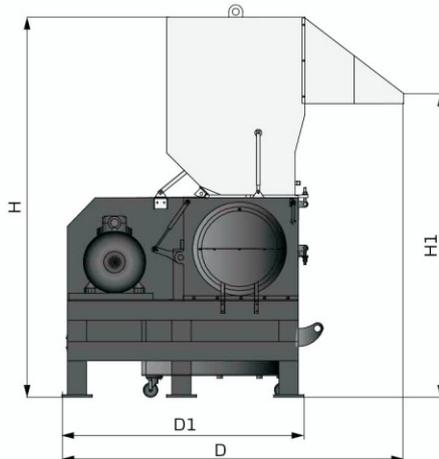
### SG-4880EB

Model	SG-4880EB
H(mm)	2235
H1(mm)	1795
H2(mm)	2800-3255
H3(mm)	595-1050
H4(mm)	640
W(mm)	1285
W1(mm)	810
W2(mm)	555
W3(mm)	1950-2250
D(mm)	2050
D1(mm)	1350



### SG-60110EB

Model	SG-60110EB
H(mm)	2760
H1(mm)	2200
H2(mm)	3100
H3(mm)	1020
H4(mm)	1030
W(mm)	1670
W1(mm)	1100
W2(mm)	915
W3(mm)	1095
D(mm)	2475
D1(mm)	1750



## ■ Specifications

Model	SG-2130EB	SG-2540EB	SG-2950EB	SG-3260EB	SG-4880EB	SG-60110EB
Motor Power	5.5	7.5	11	15	22	37
Feeding blower	○(0.55)	○(0.55)	○(0.55)	○(0.55)	○(2.2)	○(7.5)
Rotating Speed (rpm, 50/60Hz)	540/620	540/620	540/620	450/515	525/605	525/605
Material of Blades	Cr12Mo1V1	Cr12Mo1V1	Cr12Mo1V1	Cr12Mo1V1	Cr12Mo1V1	Cr12Mo1V1
Blade Type	Staggered	Staggered	Staggered	Staggered	Staggered	Paddle
Quantity of Fixed Blades	2 × 1	2 × 1	2 × 1	2 × 2	2 × 2	2 × 2
Quantity of Rotating Blades	3 × 3	3 × 4	3 × 5	3 × 6	3 × 8	3 × 2
Cutting Chamber	210 × 300	250 × 400	290 × 500	320 × 600	480 × 800	600 × 1100
Max. Output	150~200	200~250	250~300	300~350	450~600	700~1000
Noise Level dB(A)	105~110	105~110	105~110	105~110	105~110	110~115
Screen Dia.	●(Φ8)	●(Φ8)	●(Φ8)	●(Φ8)	●(Φ12)	●(Φ12)
Flywheel	●	●	●	●	●	●
Weight (kg)	400	470	550	720	1600	2000

Notes: 1) " √ " stands for standard.

- 2) Cr12Mo1V1 is corresponding to SKD11 under Japanese JIS standard .
- 3) Max. capacity of the machine is subject to diameter of screen mesh and composition of material.
- 4) Noise level varies with different materials and motor types.
- 5) Power supply : 3Φ, 230/400/460/575VAC, 50/60Hz.

We reserve the right to change specifications without prior notice.



## "Standard" Series SG-23/30/36E

SG-3675E



Refer carefully to this manual before operation.

## ■ Coding Principle



SG-2336E

## ■ Features

- SG-23E series adopts staggered blades, SG-30E and SG-36E series adopts paddle blades.
- Blades adopt quality steel to ensure high quality and high durability.
- Staggered blades design can decentralize working load when granulating to increase cutting efficiency and quick blades changing without readjustment.
- Paddle blades with increased blade inclination design to ensure better cutting effect and lower noise.
- Equipped with motor overload relay and multiple safety devices.
- Easy access to convenient maintenance and cleaning.
- Compact in size to reduce footprint and castors for easy movement.
- The presetting knife jig, which enables to reshape of the blades and installation without too much cost and time.



Paddle Cutter



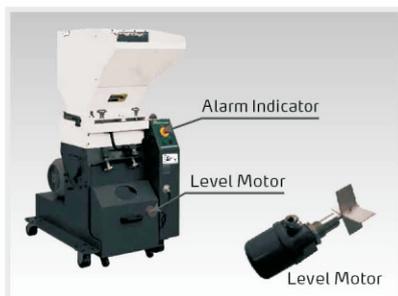
Staggered Cutter

## ■ Application

SG-23E/30E/36E series of "standard" central granulators are built to conform to sound-proof models both in safety configuration and operation security. They are suitable for centralized recycling of wastes and rejected products from injection, blow molding and extrusion lines. The granulators feature optimal structure, easy operation and quick blades changing. Staggered rotating blades can easily grab and cut the materials and ensures low energy consumption.

## ■ Options

### Full-receiver Alarm Device



Full-receive alarm device can help 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. Add "FAD" at the end of the model code.

### Special Screen



Optional screen mesh sizes includes  $\Phi 4$ ,  $\Phi 6$ ,  $\Phi 10$ ,  $\Phi 12$  (mm) which are applicable to SG-23E/30E series and  $\Phi 8$ ,  $\Phi 12$ ,  $\Phi 17$ ,  $\Phi 25$  (mm) which applicable to SG-36E series. All can be selected as per customer's requirement. Add "SS + screen diameter" at the end of the model code, e.g.:  $\Phi 8\text{mm}$  , add "SS08".

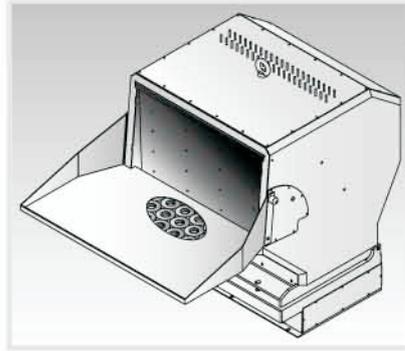
# SG-23E/30E/36E Series

## Flywheel



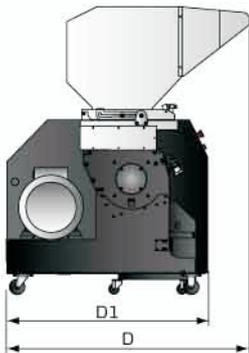
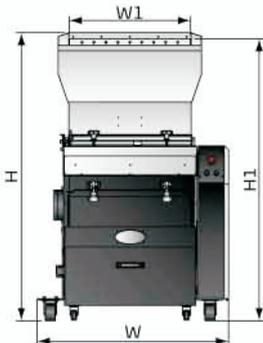
Increase inertia, thereby increasing the cutting ability. At the same time can result in a more balanced force and longer service life. It is an option for SG-36E series. Add "FW" at the end of the model code.

## Feed Hopper with Magnet



Feed hopper with magnet is used to take out metal craps and impurities in the material. Add "FHM" at the end of the model code.

## Outline Drawings



## Specifications

Model	SG-2324E	SG-2336E	SG-2348E	SG-3048E	SG-3060E	SG-3650E	SG-3675E		
Motor Power (kW, 50/60Hz)	5.5/6.3	7.5/8.6	11/12.6	11/12.6	15/17.3	18.5/21	30/34.6		
Rotating Speed (rpm, 50/60Hz)	415/500	415/500	415/500	415/500	415/500	540/620	540/620		
Material of Blades	SKD11	SKD11	SKD11	SKD11	SKD11	SKD11	SKD11		
Quantity of Fixed Blades	2	2	2	2	2	2	4		
Quantity of Rotating Blades	3 x 2	3 x 3	3 x 4	3	3	6	6		
Cutting Chamber	mm	230 x 240	230 x 360	230 x 480	300 x 480	300 x 600	360 x 500	360 x 750	
	inch	9.0 x 9.4	9.0 x 14.2	9.0 x 18.9	11.8 x 18.9	11.8 x 23.6	14.2 x 19.7	14.2 x 29.5	
Max. Output	kg/hr	90	120	150	185	220	620	800	
	lb/hr	198	265	331	408	485	1367	1764	
Noise Level dB(A)	105-110	105-110	105-110	105-110	105-110	110-115	110-115		
Screen	mm					(Φ8)		(Φ10)	
	inch					(Φ0.31)		(Φ0.39)	
Dimension	H	mm	1390	1390	1390	1430	1430	1750	1750
		inch	54.7	54.7	54.7	56.3	56.3	68.9	68.9
	H1	mm	1320	1320	1320	1330	1330	1570	1570
		inch	52.0	52.0	52.0	52.7	52.7	61.8	61.8
	W	mm	590	710	830	830	950	1250	1500
		inch	23.2	28.0	32.7	32.7	37.4	49.2	59.0
	W1	mm	240	360	480	480	600	500	750
		inch	9.4	14.2	18.9	18.9	23.6	19.7	29.5
	D	mm	1130	1130	1130	1200	1200	1350	1450
		inch	44.5	44.5	44.5	47.2	47.2	53.1	57.0
	D1	mm	890	890	890	1000	1000	1100	1400
		inch	35.0	35.0	35.0	39.4	39.4	43.3	55.1
Weight	kg	320	380	450	500	530	1120	1360	
	lb	705	838	992	1102	1168	2469	2998	

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

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

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

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

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



## "Regular" Series SG-B

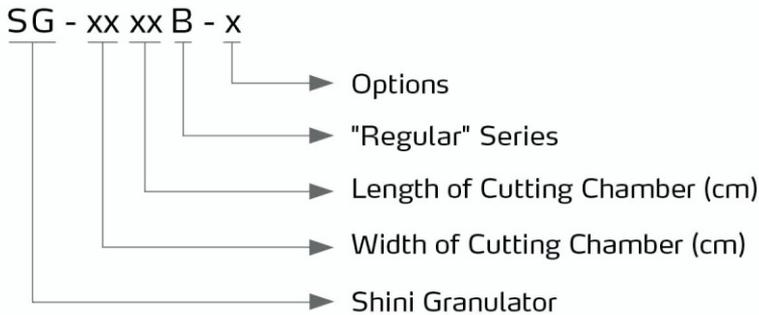
SG-4390B



Refer carefully to this manual before operation.

# SG-B Series

## ■ Coding Principle



V-Type Cutting Blades

## ■ Features

- Rotating cutters adopt 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 high quality steel featuring wearability, high rigidity, long service life and reusable after re-sharpening.
- 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.
- 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 the electronic handspike system which ensures safe operation.
- Cooling water device at the rear plate of cutting chamber can effectively cool down the cutting chamber and prevent the inside material from melting up.
- The presetting knife jig, which enables to reshape of the blades and installation without too much cost and time.



Screen and screen bracket



Heavy duty transmission design



High quality crushing chamber



Presetting Knife Jig

## ■ Application

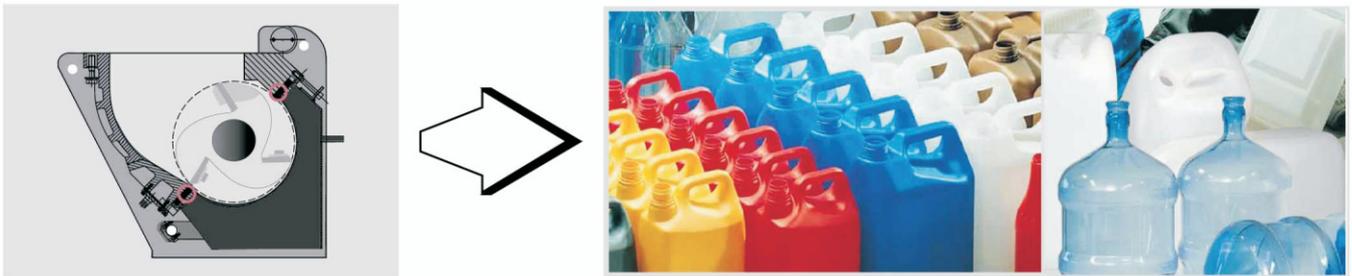
SG-B series granulators are applicable to granulate various kinds of plastic materials from injection molding, blow molding or extrusion molding.

## Different Cutting Angles for Different Materials

When granulating different kinds of plastic wastes, such as plates, frames, die head from injection molding, sprues and pipes, etc, SG-50B series have two kinds of cutting angles for different materials.

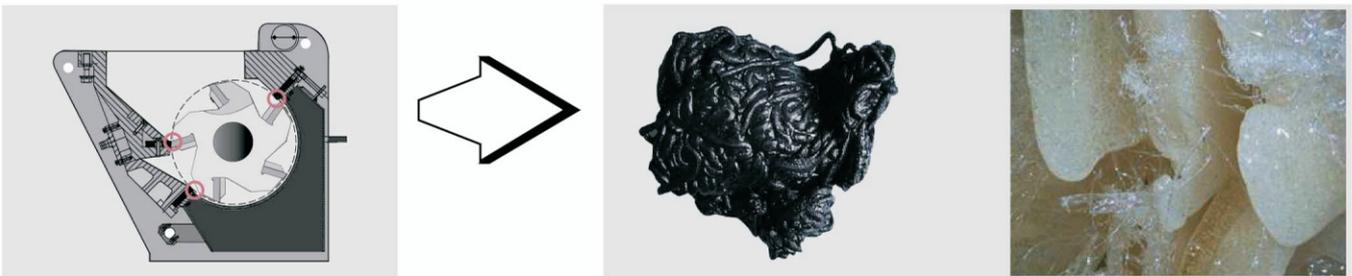
### 3 Rotating Blades and 2 Fixed Blades (Standard Type)

Two rows of fixed blades model has big inlet space and initially low cutting point. Material can be easily 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

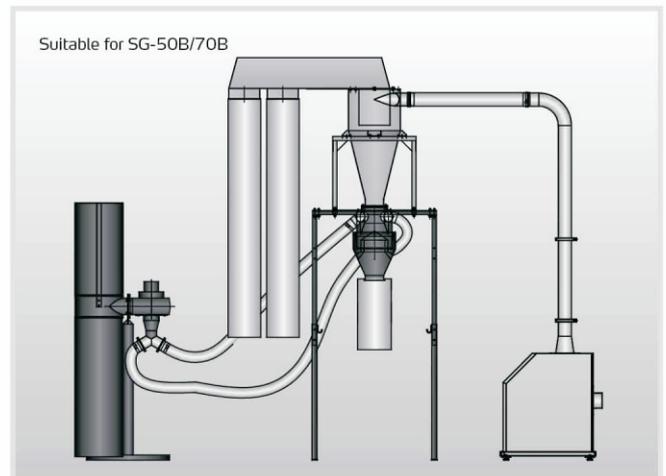
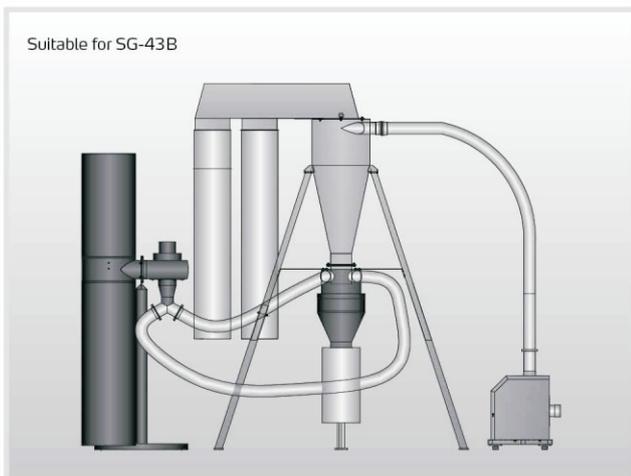
This semi-closed rotor has much smaller spaces between the blade rows thus preventing material from falling into the rotor and 3 fixed blades design which restricts the inlet opening and moves the initial cutting point higher in the machine, there is consequently a less aggressive cutting action meaning 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

### Dust-separating system

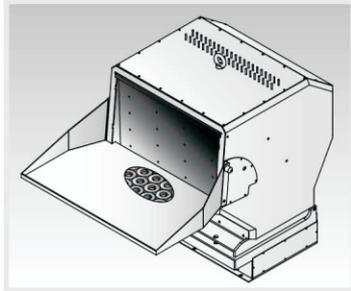
Optional dust-separating system to remove the dusts in the material, and add "DS" at the end of the model code.



# SG-B Series

## Options

### Feed Hopper with Magnet



Feed hopper with magnet is used to take out metal craps and impurities in the material. (Suitable for SG-43B)  
Add "FHM" at the end of the model code;

### Special Screen



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

### Flywheel



Increase inertia, thereby increasing the cutting ability, at the same time it can offer a more balanced force and longer service life.  
Add "FW" at the end of the model code.

### Separate Conveying Blower



SG-43B



SG-50B/70B

### 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.

The blower stands outside the machine. Without restriction of the inner space of the machine, customer can choose different kinds of blowers. Add "SC" at the end of the model code.

### Feeding Hopper for Conveyor

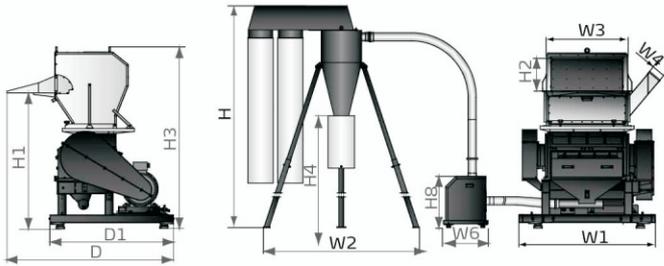


Material feeding for traditional large granulators is quite a difficult matter. They are generally installed at a lower place or a platform must be built for material feeding. Shini has particularly designed the belt conveyor to easily convey the material into the cutting chamber of SG-43 series.

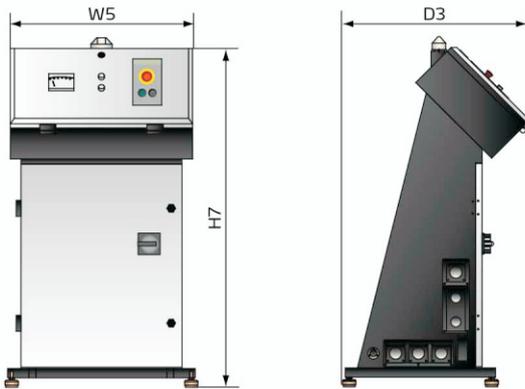
Add "BCF" at the end of the model code.

- The function of fiber reinforced material granulating is optional. Adopt surface-hardening treatment on the material contacting component. Blade material is V-4E joint with S50C, and add "F" at the end of the model code.
- Full-receive alarm device helps to realize unmanned operation and no materials will be wasted, and add "FAD" at end of the model code.
- For stainless steel made feed hopper cover plate and storage tank, Add "R" at end of the model code.
- Higher-power conveying blower is optional, add "EC" at the end of model code.
- Higher-power motor is optional, add "H" at the end of model code.
- For models optional with three fixed plus five rotating blades (refer to the specifications), add "FT" at the end of the model code.

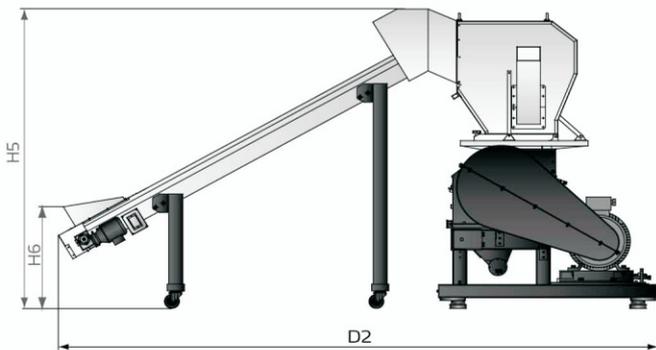
## Outline Drawings(SG-43B)



Separated blower is optional



Control box



Conveyor belt is optional

## Specifications(SG-43B)

Model	SG-4360(H)B	SG-4390(H)B		
Motor Power (kW, 50/60Hz)	30/34(37/41.5)	37(41.5)/45(51)		
Conveying Blower (kW, 50/60Hz)	○(2.2/2.55)	○(2.2/2.55)		
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		
	inch	16.9 x 23.6		
Max. Output	kg/hr	800		
	lb/hr	1764		
Noise Level dB(A)	105-110	105-110		
Material of Blades	SKD11	SKD11		
Screen Dia.	φ12 mm/0.47"	φ12 mm/0.47"		
Increased Material Conveying Blower Power (kW)	○(7.5)	○(7.5)		
Dimensions	H	mm	2710-3155	2710-3155
		inch	106.7-124.2	106.7-124.2
	H1	mm	1708	1708
		inch	67.2	67.2
	H2	mm	430	430
		inch	16.9	16.9
	H3	mm	2260	2260
		inch	89	89
	H4	mm	1240-1690	1240-1690
		inch	48.8-66.5	48.8-66.5
	H5	mm	2277	2277
		inch	89.6	89.6
	H6	mm	750	750
		inch	29.5	29.5
	H7	mm	1268	1268
		inch	49.9	49.9
	H8	mm	636(970)	636(970)
		inch	25(38.2)	25(38.2)
	W1	mm	1390	1690
		inch	54.7	54.7
	W2	mm	1900-2310	1900-2310
		inch	74.8-90.9	74.8-90.9
	W3	mm	600	900
		inch	23.6	35.4
W4	mm	160x160	160x160	
	inch	6.3x6.3	6.3x6.3	
W5	mm	720	720	
	inch	28.3	28.3	
W6	mm	552(630)	552(630)	
	inch	21.7(24.8)	21.7(24.8)	
D	mm	1978	1978	
	inch	77.9	77.9	
D1	mm	1553	1553	
	inch	61.1	61.1	
D2	mm	4300	4300	
	inch	169.3	169.3	
D3	mm	690	690	
	inch	27.2	27.2	
Weight	kg	2300(2350)	2630(2680)	
	lb	5071(5181)	5798(5908)	

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.

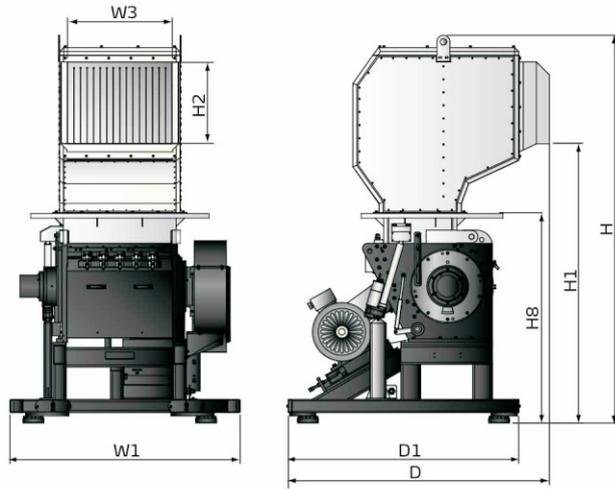
4) Noise level varies with different materials and motor types.

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

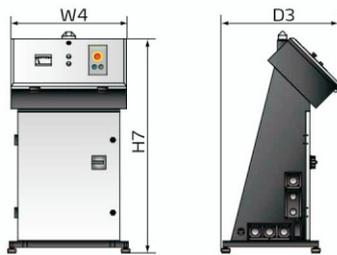
6) Power supply : 3Φ, 230/400/460, 50/60Hz.

# SG-B Series

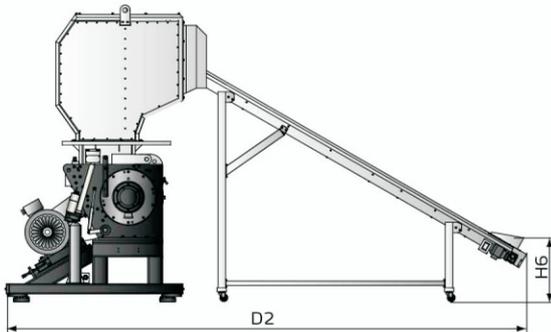
## Outline Drawings(SG-50B)



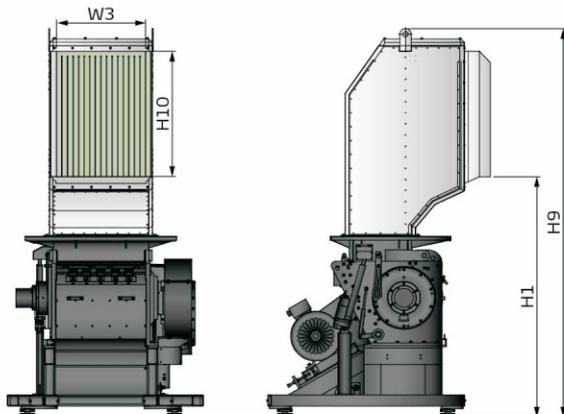
SG-50B



Control box



Conveyor belt is optional



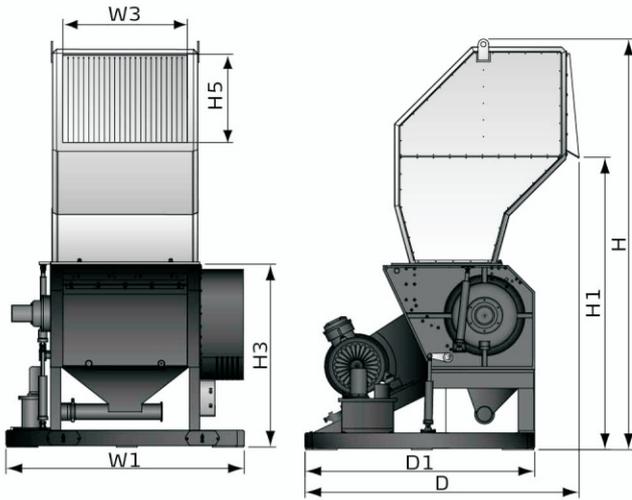
Optional height-increasing storage bin

## Specifications(SG-50B)

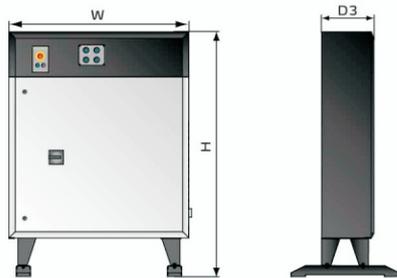
Model	SG-5080B	SG-50110B		
Motor Power	37	45		
Rotating Speed (rpm, 50/60Hz)	525/630	525/630		
Feeding blower (50/60Hz)	3/3.4	4/4.6		
Handspike motor (50/60Hz)	0.32/0.37	0.32/0.37		
Material of Blades	SKD11	SKD11		
Quantity of Fixed Blades (Optional)	2 (3)	2 (3)		
Quantity of Rotating Blades (Optional)	3 (5)	3 (5)		
Cutting Chamber	mm	500 x 800		
	inch	19.6 x 31.5		
Max. Output (kg/hr)	1100	1500		
Noise Level dB(A)	110-115	110-115		
Cooling Water Device	●	●		
Height-increasing storage bin	○	○		
Screen Dia.	mm	Φ12		
	inch	Φ0.47		
Dimension	H	mm 2980	2980	
		inch	117.3	117.3
	H1	mm 2170	2150	
		inch	85.4	85.4
	H2	mm 620	620	
		inch	24.4	24.4
	H6	mm 690	690	
		inch	27	27
	H7	mm 1260	1260	
		inch	49.6	49.6
	H8	mm 1630	1610	
		inch	64.2	64.2
	H9	mm 3500	3500	
		inch	137.8	137.8
	H10	mm 1190	1190	
		inch	46.9	46.9
	W1	mm 1740	2040	
		inch	68.5	80.3
	W3	mm 800	1100	
	inch	31.5	43.3	
W4	mm 700	700		
	inch	27.6	27.6	
D	mm 2000	2000		
	inch	78.7	78.7	
D1	mm 1740	1740		
	inch	68.5	68.5	
D2	mm 5470	5470		
	inch	215.4	215.4	
D3	mm 690	690		
	inch	27.2	27.2	
Weight	kg	3800	4260	
	lb	8378	9392	

- Notes: 1) ● stands for standard, ○ stands for options, - stands for none.  
 2) SKD11 is steel grade of Japanese JIS standard.  
 3) 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%.  
 4) Noise level varies with different materials and motor type.  
 5) Noise level is tested under conditions of 1m/3.3feet around the machine and 1.6m/5.2feet from the ground.  
 6) To avoid plastics from sticking to the blades, all materials should be crushed at normal temperature.  
 7) Power supply: 3Φ, 230/400/460/575VAC, 50/60Hz.

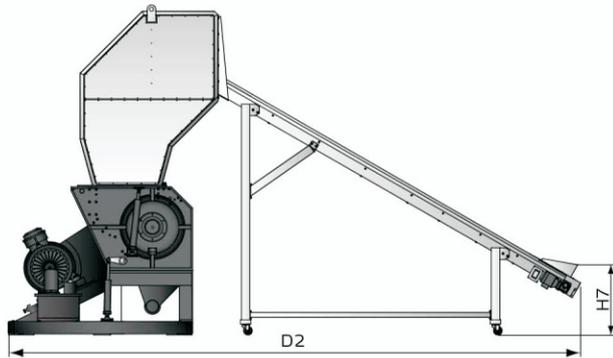
## Outline Drawings(SG-70B)



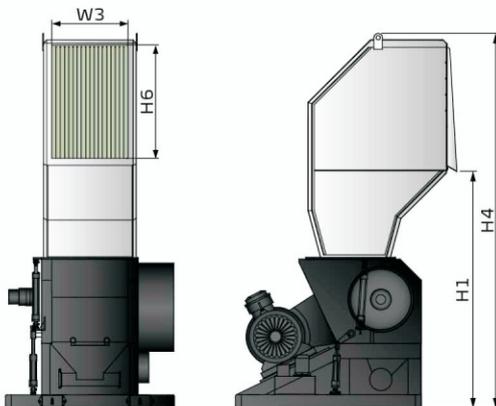
SG-70B



Control box



Conveyor belt is optional



Optional height-increasing storage bin

## Specifications(SG-70B)

Model	SG-7090B	SG-70120B
Motor Power	75	90
Rotating Speed (rpm, 50/60Hz)	525	525
Conveying Blower (kW, 50/60Hz)	7.5/8.6	7.5/8.6
Motor power hydraulic system(kW)	1.5	1.5
Material of Blades	SKD11	SKD11
Quantity of Fixed Blades(option)	2 × 2(3 × 2)	2 × 2(3 × 2)
Quantity of Rotating Blades(option)	3 × 2(5 × 2)	3 × 2(5 × 2)
Cutting Chamber	mm	700 x 900
	inch	27.5 x 35.4
Max. Output	kg/hr	1300
	lb/hr	2866
Height-increasing storage bin	○	○
Screen Dia.	mm	Φ12
	inch	Φ0.47
H (mm)	mm	3950
	inch	155.5
H1 (mm)	mm	2815
	inch	110.8
H3 (mm)	mm	1770
	inch	69.7
H4 (mm)	mm	4450
	inch	175.2
H5 (mm)	mm	900
	inch	35.4
H6 (mm)	mm	1400
	inch	55.1
H7 (mm)	mm	846
	inch	33.3
D(mm)	mm	2625
	inch	103.3
D1(mm)	mm	2200
	inch	86.6
D2(mm)	mm	6840
	inch	269.3
D3(mm)	mm	290
	inch	11.4
W1(mm)	mm	2000
	inch	78.7
W3(mm)	mm	900
	inch	35.4
Weight	kg	4000
	lb	8818
Control box size (W×H×D)	mm	1000×1365×290
	inch	39.4×53.7×11.4

- Notes: 1) "●" stands for standard, "○" stands for options, "-" stands for none.  
 2) SKD11 is steel grade of Japanese JIS standard.  
 3) 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%.  
 4) Noise level varies with different materials and motor type.  
 5) Noise level is tested under conditions of 1m/3.3Feet around the machine and 1.6m/5.2Feet from the ground.  
 6) To avoid plastics from sticking to the blades, all materials should be crushed at normal temperature.  
 7) Power supply: 3Φ, 230/400/460/575VAC, 50/60Hz.



Granulating & Recycling

# Sound-proof Central Granulator

Simple Solution

**SHINI**



## Sound-proof Central Granulator

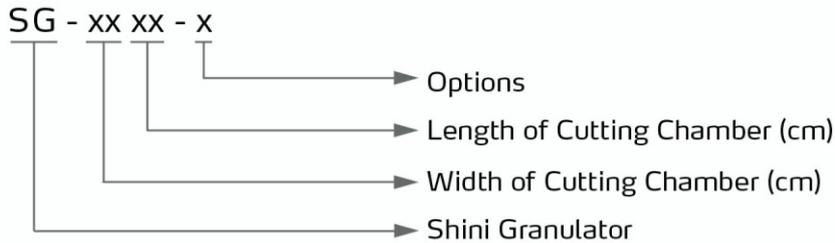
SG-3650



Refer carefully to this manual before operation.

# SG-23/30/36

## ■ Coding Principle



SG-3060

## ■ Features

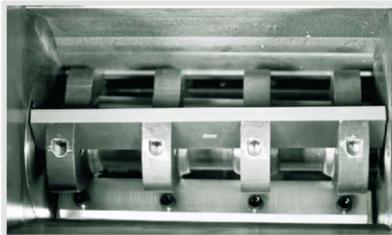
### ● Fine finishing cutting chamber and cutting tools that need adjustment

SG-23 series adopts staggered blades, it can decentralize working load when granulating to increase cutting efficiency, Blade retainer is designed for quick blade replacement without readjustment.

SG-30 and SG-36 series adopts paddle blades. It allows increased efficiency and reduced energy consumption.



Staggered Blade (SG-23)



Paddle Blade (SG-30&SG-36)

### ● 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.



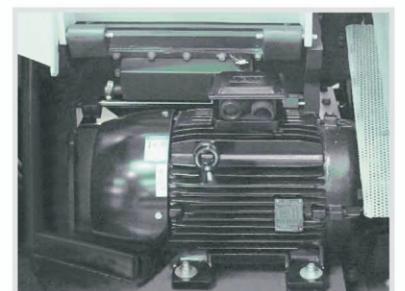
### ● Sound-proofing machine

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



### ● High-efficiency cutting motor

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



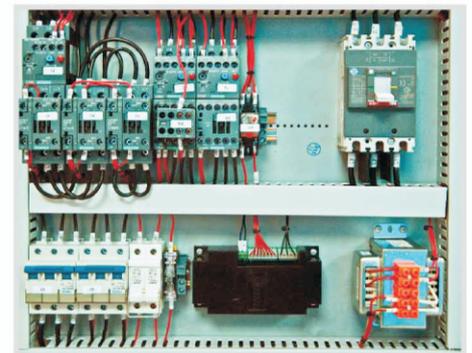
● **Cooling device of cutting chamber**

The cooling water device (equipped SG--30/36) at the back plate of cutting chamber can effectively reduce the temperature of cutting chamber to avoid material blocking.



● **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.



● **Presetting Knife Jig**

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



■ **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.

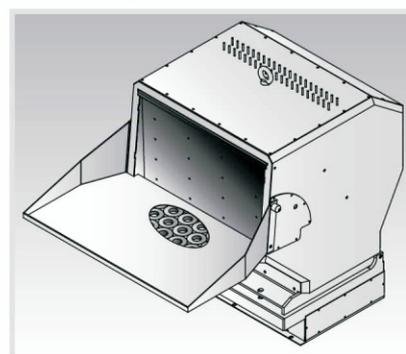
■ **Options**

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

**Feed Hopper with Magnet**



Feed hopper with magnet is used to take out metal craps and impurities in the material. Add "FHM" at the end of the model code.

# SG-23/30/36

## Special Screens



Special screen mesh sizes:  $\Phi 4$ ,  $\Phi 6$ ,  $\Phi 10$ ,  $\Phi 12$ (mm) for SG-23/30 series,  $\Phi 8$ ,  $\Phi 12$ ,  $\Phi 14$ ,  $\Phi 17$ ,  $\Phi 25$ (mm) for SG-36 series.

Add "SS + screen diameter" at the end of the model code, e.g.:  $\Phi 6$ mm, add "SS06".



## 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.

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



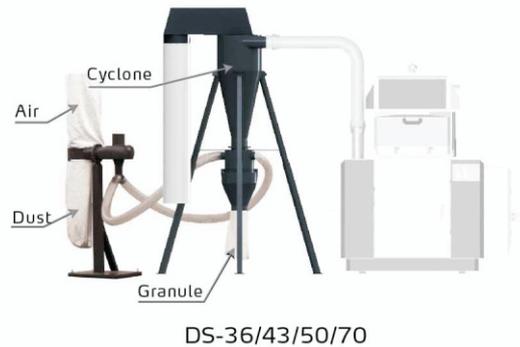
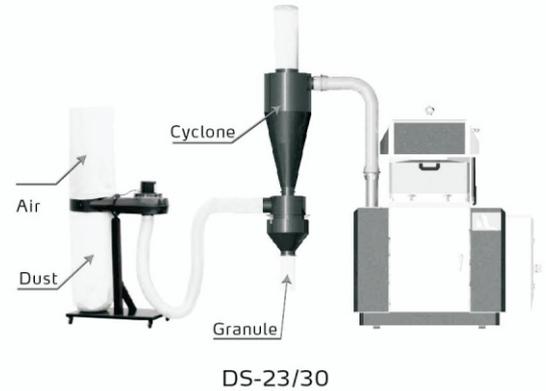
## Material Side Feed Pipe

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. It's optional for SG-36.

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

## Dust Separator

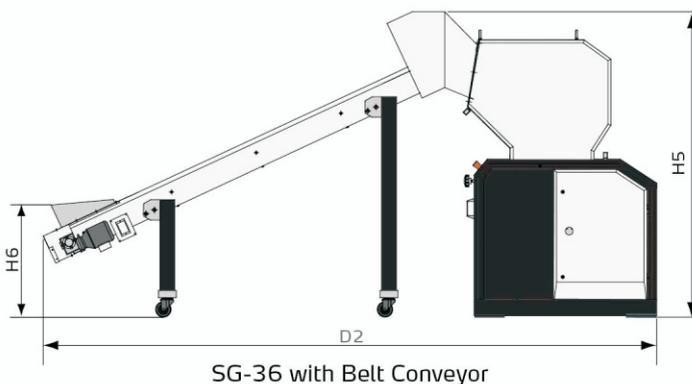
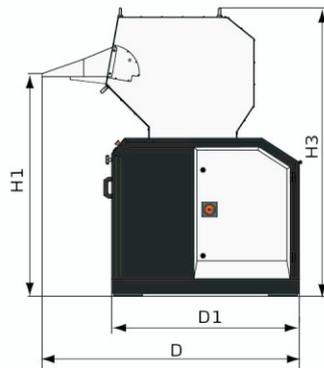
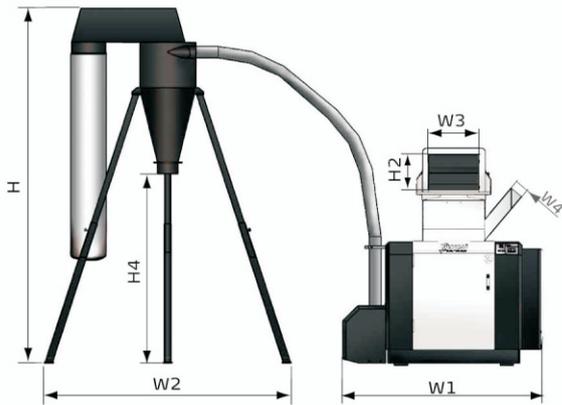
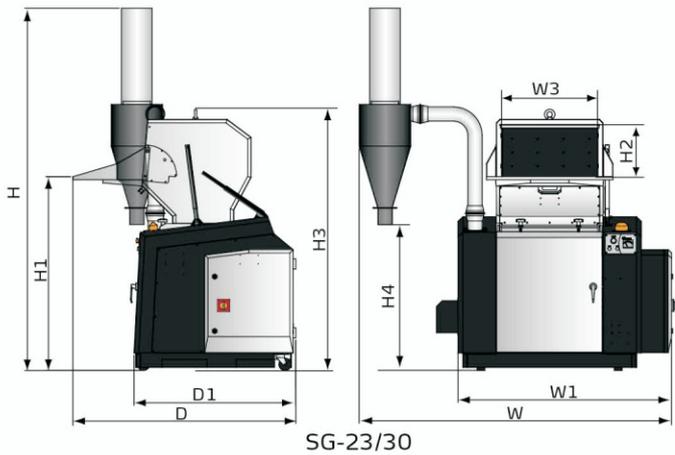
Work with cyclone dust separator to recycle the granule and separate it from dust.



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.

- 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;
- Power increased blower enables material conveying in longer distance, at "EC" at the end of the model code.
- For stainless steel made feed hopper cover plate and storage tank, Add "R" at end of the model code.

## Outline Drawings



## 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	2×1	2×2		
Quantity of Rotating Blades	3×2	3×2		
Cutting Chamber	mm	360 × 500	360 × 750	
	inch	14.2 × 19.7	14.2 × 19.7	
Max. Output	kg/hr	620	800	
	lb/hr	1367	1764	
Noise Level dB(A)	100-105	100-105		
Screen	Φ10mm/Φ0.39" Φ10mm/Φ0.39"			
Increased Conveying Blower power (kW)	○(1.5)	○(2.2)		
Dimensions	H	mm	2710-3155	2710-3155
		inch	106.7-124.2	106.7-124.2
	H1	mm	1520	1520
		inch	59.8	59.8
	H2	mm	360	360
		inch	14	14
	H3	mm	1980	1980
		inch	78	78
	H4	mm	1240-1690	1240-1690
		inch	48.8-66.5	48.8-66.5
	H5	mm	2100	2100
		inch	82.7	82.7
H6	mm	780	780	
	inch	30.7	30.7	
W1	mm	1930	2180	
	inch	76	85.8	
W2	mm	1900-2310	1900-2310	
	inch	74.8-90.9	74.8-90.9	
W3	mm	500	750	
	inch	19.7	29.5	
W4	mm	160×160	160×160	
	inch	6.3×6.3	6.3×6.3	
D	mm	1720	1720	
	inch	67.7	67.7	
D1	mm	1250	1250	
	inch	49.2	49.2	
D2	mm	4220	4220	
	inch	166.1	166.1	
Weight	kg	1480	1730	
	lb	3262	3814	

- 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 size and composition of material.  
 4) Noise level varies with different materials and motor types.  
 5) To avoid plastic from sticking to the blades, all materials should be crushed at normal temperature.  
 6) Power supply : 3Φ, 230/400/460/575VAC, 50/60Hz.

# SG-23/30/36

## 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 × 1	2 × 1	2 × 1	2 × 1	2 × 1	
Quantity of Rotating Blade		3 × 2	3 × 3	3 × 4	3 × 1	3 × 1	
Cutting Chamber	mm	230 × 240	230 × 360	230 × 480	300 × 480	300 × 600	
	inch	9.0 × 9.5	9.0 × 14.2	9.0 × 18.9	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	
Screen		Φ8mm	Φ8mm	Φ8mm	Φ8mm	Φ8mm	
Dimension	H (mm)	mm	2210	2210	2210	2210	
		inch	87	87	87	87	
	H1 (mm)	mm	1175	1175	1175	1212	1212
		inch	46.3	46.3	46.3	47.8	47.8
	H2 (mm)	mm	230	230	230	300	300
		inch	9.1	9.1	9.1	11.8	11.8
	H3 (mm)	mm	1503	1503	1503	1632	1632
		inch	59.2	59.2	59.2	64.3	64.3
	H4 (mm)	mm	864	864	864	864	864
		inch	34	34	34	34	34
	W (mm)	mm	1523	1643	1763	1767	1886
		inch	60	64.7	69.4	69.6	74.3
	W1 (mm)	mm	968	1088	1208	1210	1330
		inch	38.1	42.8	47.6	47.6	52.4
	W3 (mm)	mm	240	360	480	480	600
		inch	9.5	14.1	18.9	18.9	23.6
	D (mm)	mm	1243	1243	1243	1386	1386
		inch	48.9	48.9	48.9	54.6	54.6
D 1(mm)	mm	903	903	903	1007	1007	
	inch	35.6	35.6	35.6	39.6	39.6	
Weight	kg	470	520	600	700	780	
	lb	1036	1146	1323	1543	1719	

- Notes: 1) SKD11 is steel grade of Japanese JIS standard.  
 2) Max. capacity of the machine is subject to diameter of screen mesh and composition of material.  
 3) Noise level varies with different materials and motor types.  
 4) To avoid plastic from sticking to the blades, all materials should be crushed at normal temperature.  
 5) Power supply : 3Φ, 230/400/460/575VAC, 50/60Hz.

We reserve the right to change specifications without prior notice.



## Sound-proof Central Granulator

SG-4390

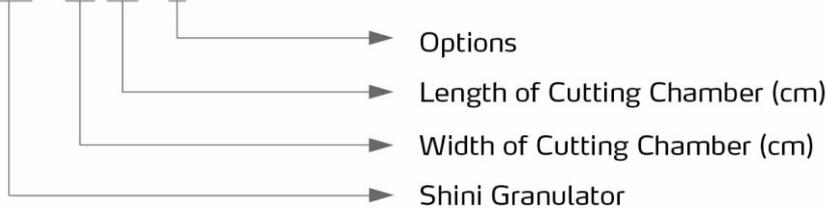


Refer carefully to this manual before operation.

# SG-43/50/70 Series

## ■ Coding Principle

SG - xx xx - x



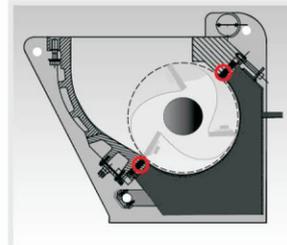
## ■ Features

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

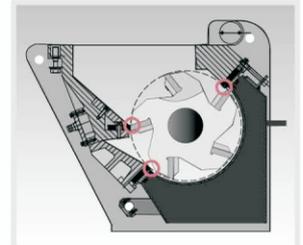
Components in the cutting chamber have been finely finished by CNC lathe, enjoying high accuracy; staggered cutters and structure can effectively disperse impact load and improve cutting efficiency; blade rest needing no adjustment makes it more convenient to change blades.



Cutting Chamber



Two Fixed plus Three Rotating Blades(SG-43)



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

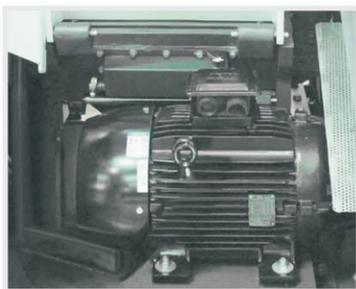
### ● Automatic conveying device

The machine is equipped with automatic conveying device of grind 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 IE3 high-efficiency motor, which has stable performance as well as safe operation and helps energy consumption.



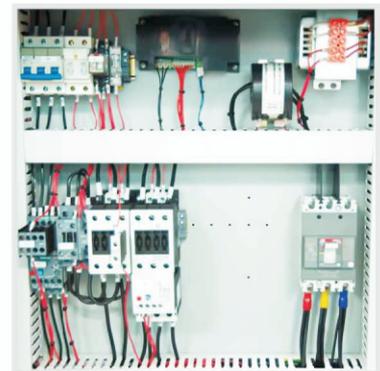
- **Sound-proofing machine**

The machine adopts enclosed soundproof 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.



- **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.

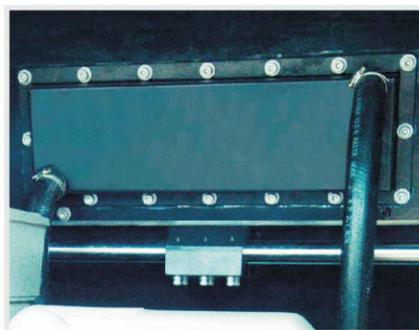


- **Cooling device of cutting chamber**

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.



Inlet and outlet



Cooling water Tank

- **Presetting Knife Jig**

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



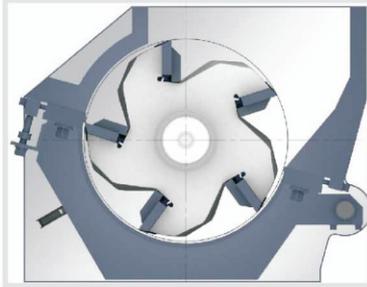
## ■ Application

SG-43/50/70 series is suitable for centralized recycling of waste and rejected parts from injection, blowing molding and extrusion lines. This series features compact design, easy operation and quick blade replacement. Gradually inclined cutting and integrated power design offers a better cutting effect and a lower noise level, ensures low energy consumption.

# SG-43/50/70 Series

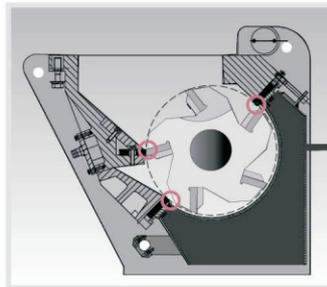
## Options

### Two Fixed plus Five Rotating Blades



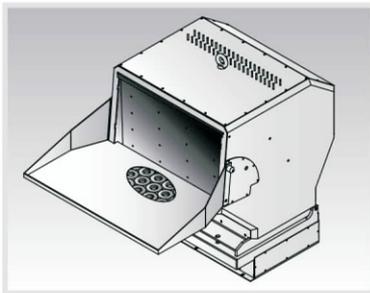
Two fixed plus five rotating blades are optional with a small feed port of cutting chamber, suitable for granulating block and solid, thick sheet material. Suitable for SG-43.

### Three Fixed plus Five Rotating Blades



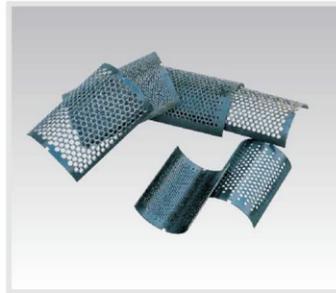
High cutting point fixed blades model has small inlet space and initially high cutting point. Thus its cutting force is not so strong, which enhances the reliability of cutting solid material. This design is suitable for granulating big solid material with thick wall and sheet.- Suitable for SG-50/70.

### Feed Hopper with Magnet



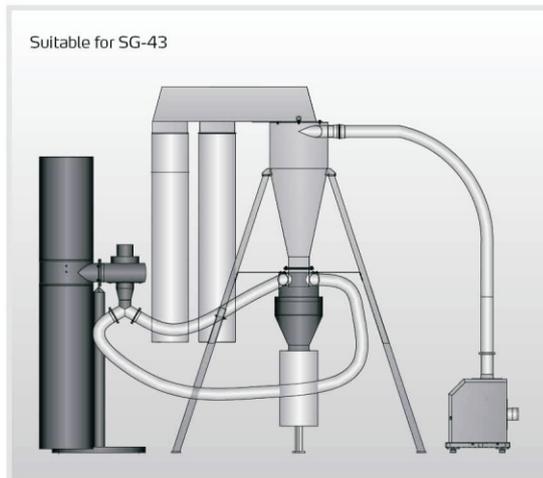
Feed hopper with magnet is used to take out metal craps and impurities in the material. (Except SG-70 series) Add "FHM" at the end of the model code.

### Special Screens

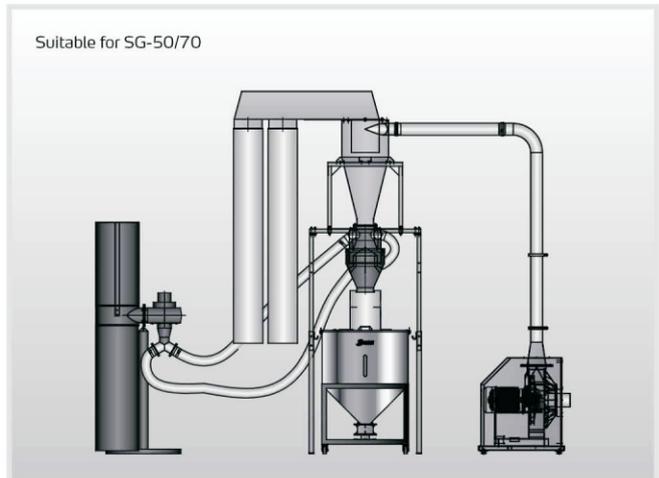


Φ8, Φ10, Φ17, Φ25(mm) are optional for SG-43;  
Φ8, Φ10, Φ14, Φ17, Φ25 (mm) are optional for SG-50;  
Φ10, Φ14, (mm) are optional for SG-70.  
Add "SS + screen diameter" at the end of the model code, e.g.: Φ8mm , add "SS08".

### Dust-separating system(SG-43)



### Dust-separating system+storage tank(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.

### Height-increasing storage bin

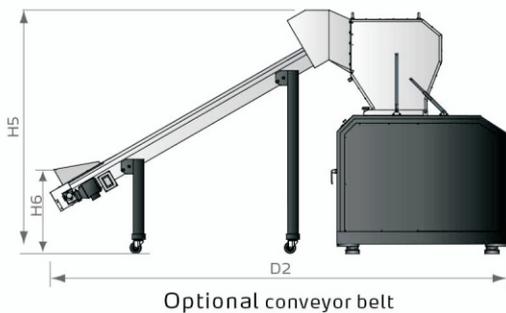
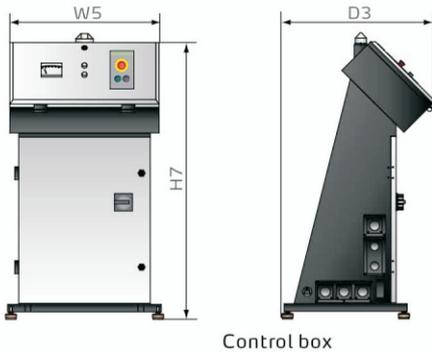
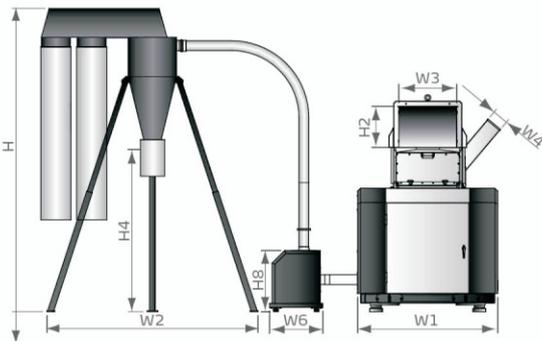
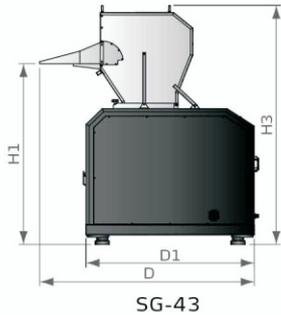


In order to meet the needs of customers to crush longer materials, such as car bumpers, optional Height-increasing storage bin (only suitable for SG-50/70). Add "FH" at the end of the model code.

- 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.
- Full-receive alarm device helps to realize unmanned operation and no materials will be wasted, Add "FAD" 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	430 x 600	
	inch	16.9 x 23.6	
Max. Output	kg/hr	800	
	lb/hr	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)	
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	1268
		inch	50
	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	720	
	inch	28.3	
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	690	
	inch	27.2	
Weight	kg	2350 (2430)	
	lb	5181 (5357)	
		2730 (2780)	
		6019 (6129)	

Notes: 1) "○" stands for optional.

2) SKD11 is steel grade of Japanese JIS standard.

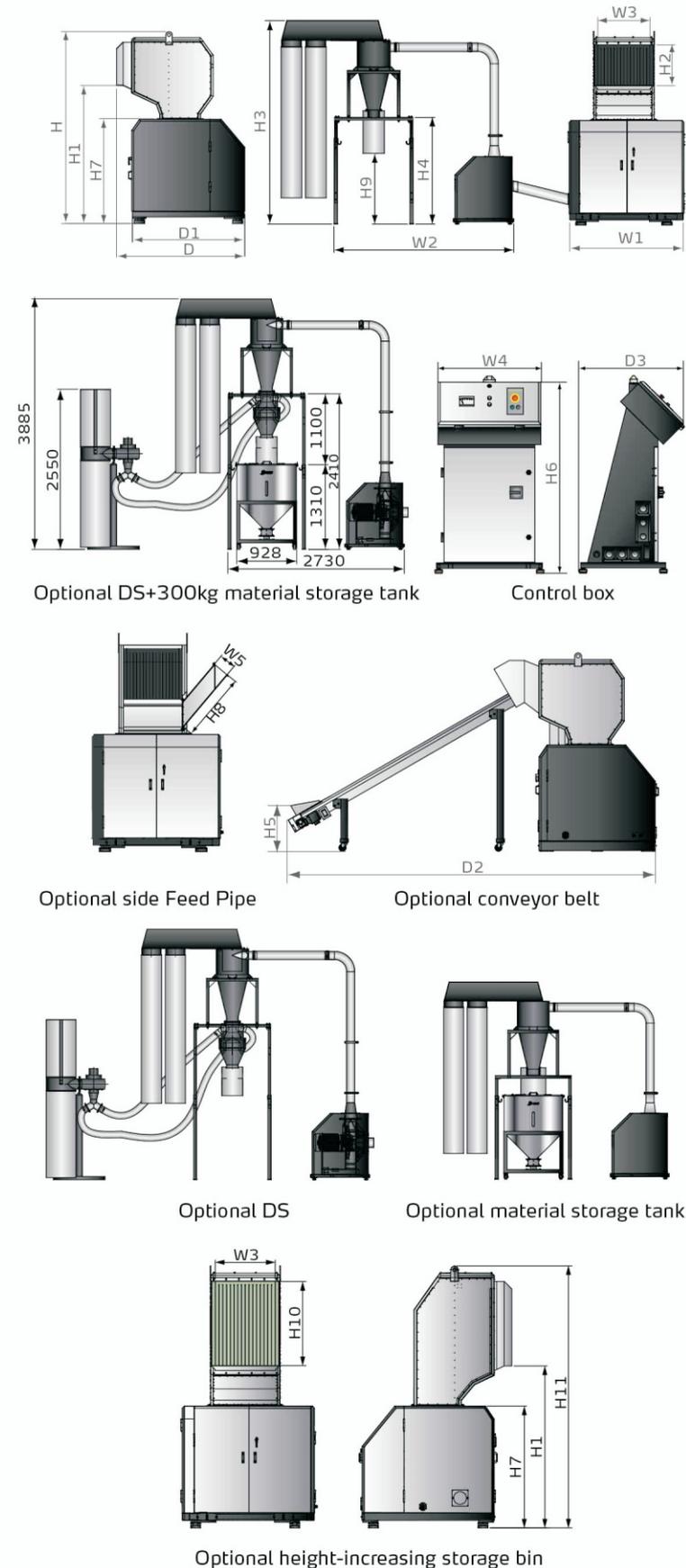
3) Max. capacity of the machine is subject to diameter of screen mesh and composition of the material.

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)



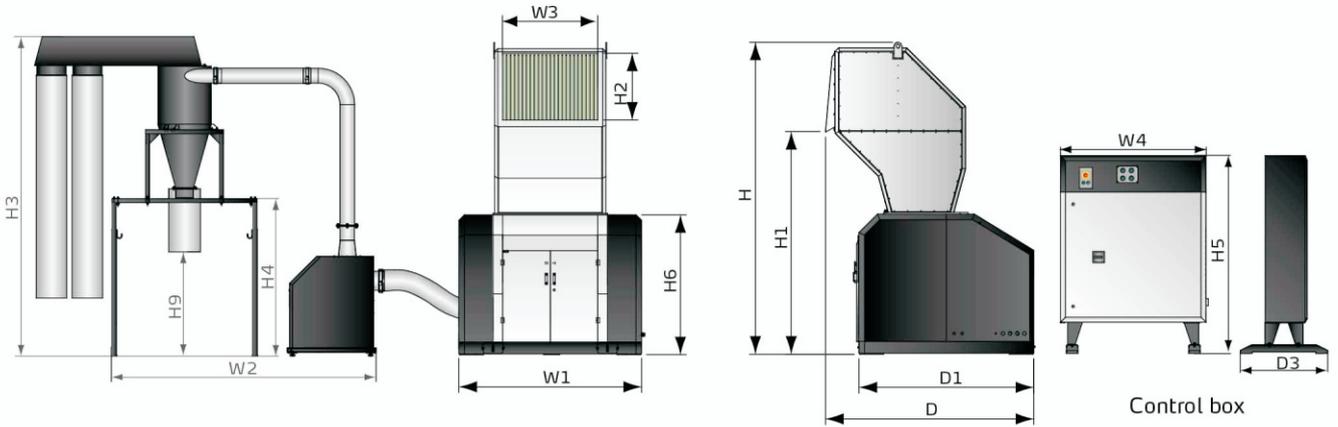
## Specifications(SG-50)

Model	SG-5060	SG-5080	SG-5090	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)	2×1	2×2 (3×2)	2×2	2×2 (3×2)		
Quantity of Rotating Blades	3×1	3×2 (5×2)	3×2	3×2 (5×2)		
Cutting Chamber	500x600	500x800	500x900	500x1100		
Max. Output	800	1100	1200	1500		
Noise Level dB(A)	105-110					
Screen	Φ12mm/0.47"					
Dimension	H	mm 2850	2980	2850	2980	
		inch 112.2	117.3	112.2	117.3	
	H1	mm 2115	2170	2115	2170	
		inch 83.3	85.1	83.3	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	-	1260	-	1260
		inch	-	49.6	-	49.6
	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	-	690	-	690	
	inch	-	27.2	-	27.2	
W1	mm	2300	1740	2600	2040	
	inch	68.5	68.5	80.3	80.3	
W2	mm	2730				
	inch	107.5				
W3	mm	600	800	900	1100	
	inch	23.6	31.5	35.4	43.3	
W4	mm	-	700	-	700	
	inch	-	27.6	-	27.6	
W5	mm	215x215				
	inch	8.5x8.5				
Weight	kg	3600	3280	3690	3820	
	lb	7920	7,231	8118	8422	

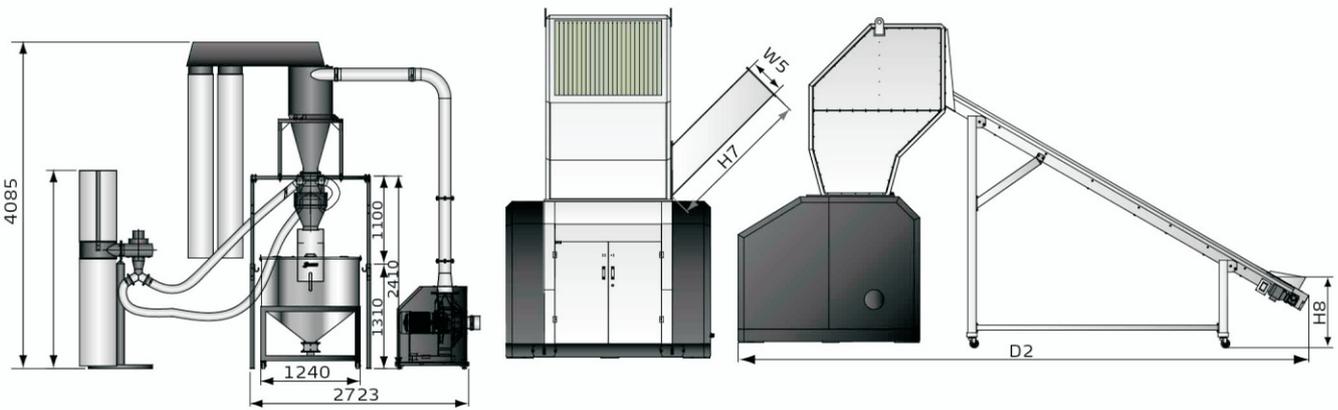
- Notes:
- 1) SKD11 is steel grade of Japanese JIS standard.
  - 2) Maximum throughput of granulator is subject to the diameter and material of screen mesh. For granulating frame and shell materials, maximum throughput will be reduced about half.
  - 3) Noise level varies with different materials and 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)



Control box



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	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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### Factories:

- Taiwan
- Dongguan
- Pinghu
- Ningbo
- Chongqing
- Pune