



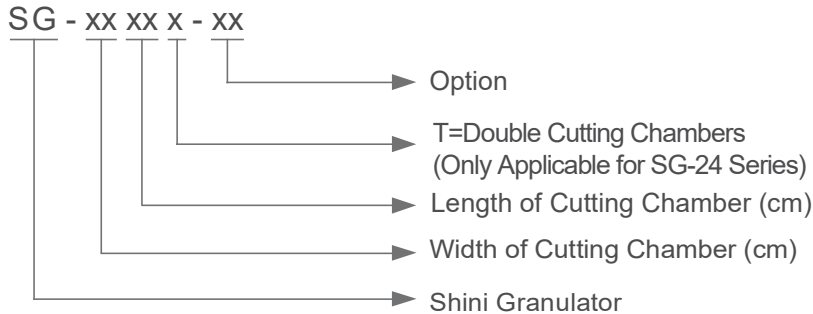
# Granulating & Recycling

# Screenless Granulator



SG-2427N

## ■ Coding Principle



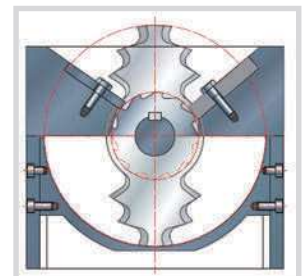
SG-1417

## ■ Features

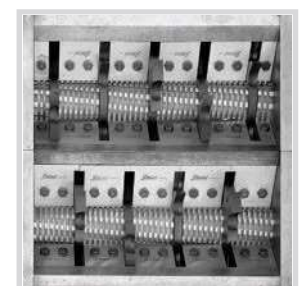
- Adopting gear motor of foreign brand, SG-14/24N series features steady performance, long service life and large transfer torque.
- Adopting two gear motors of foreign brand, SG-24T series have two cutting chambers working simultaneously to provide reliable performance and high torque.
- SG-14/24N series teeth cutters and cutting blades are integrally fitted in one cutting chamber. SG-24T series feature integral design of double teeth cutters and cutting blades. Staggered blades make the initial cutting and teeth cutters cut the materials into desired size. Regrinds could be used with virgin materials.
- New-type inclined teeth cutter reduces the possibility of stress concentration, enhance bearing capacity and converts force direction so that cutter lifespan can be prolonged.
- SG-14/24T series motor shaft and rotor shaft are connected by shaft coupling thus ensuring smooth cutting action and convenient motor replacement.
- SG-24N series adopt moment arm flange to secure reduction gear and ensure smooth running with low noise.
- 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.
- European type appearance, compact in size and easy for cleaning and maintenance.
- Transparent PC feeding hopper.
- Screenless design, well-proportioned size of regrinds and least amount of dusts. Regrinds could be used with virgin materials.



SG-2446T



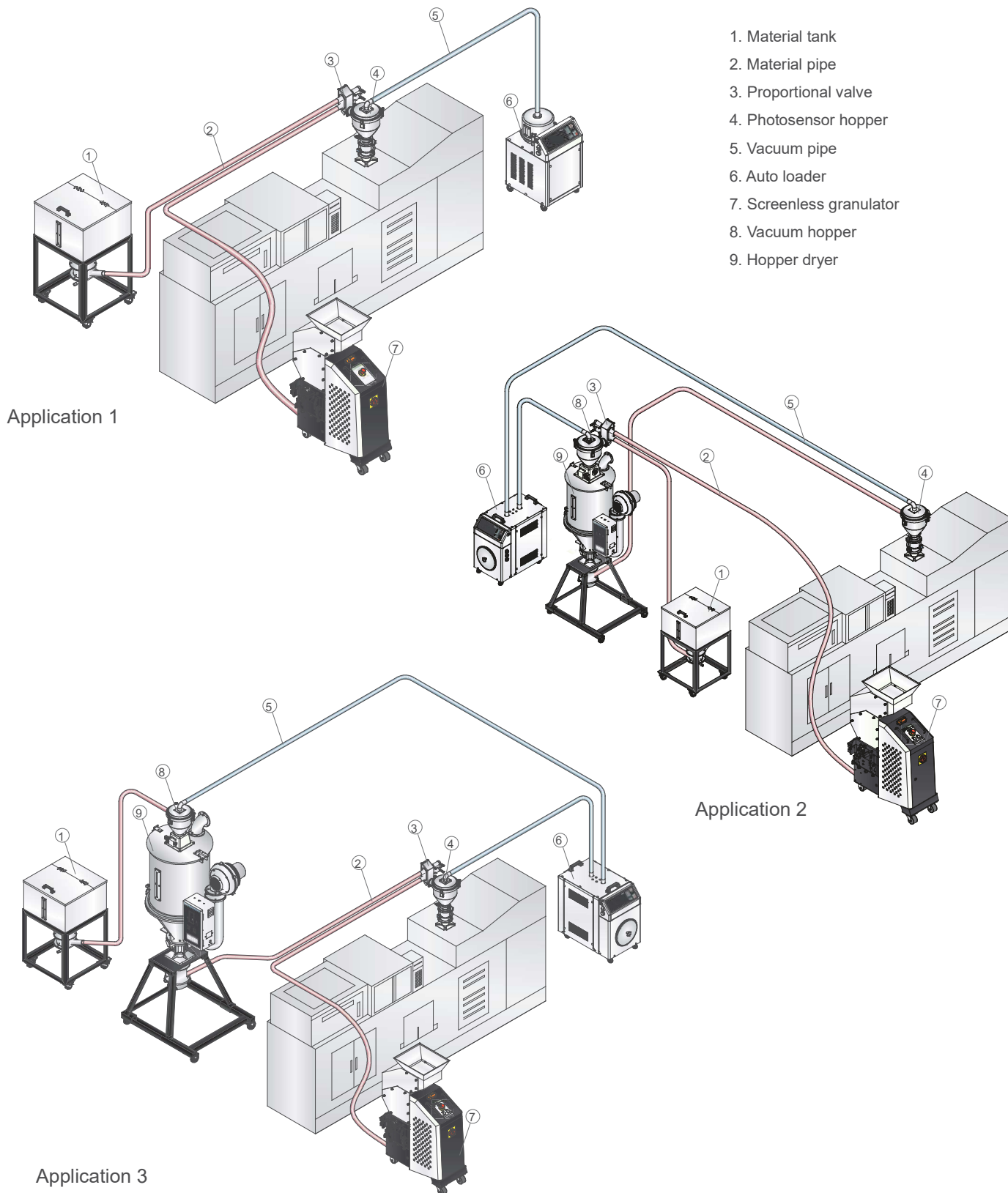
Section View of Trapezoid Teeth Cutter



SG-24T  
Double Teeth Cutter

# SG-14/24N/24T

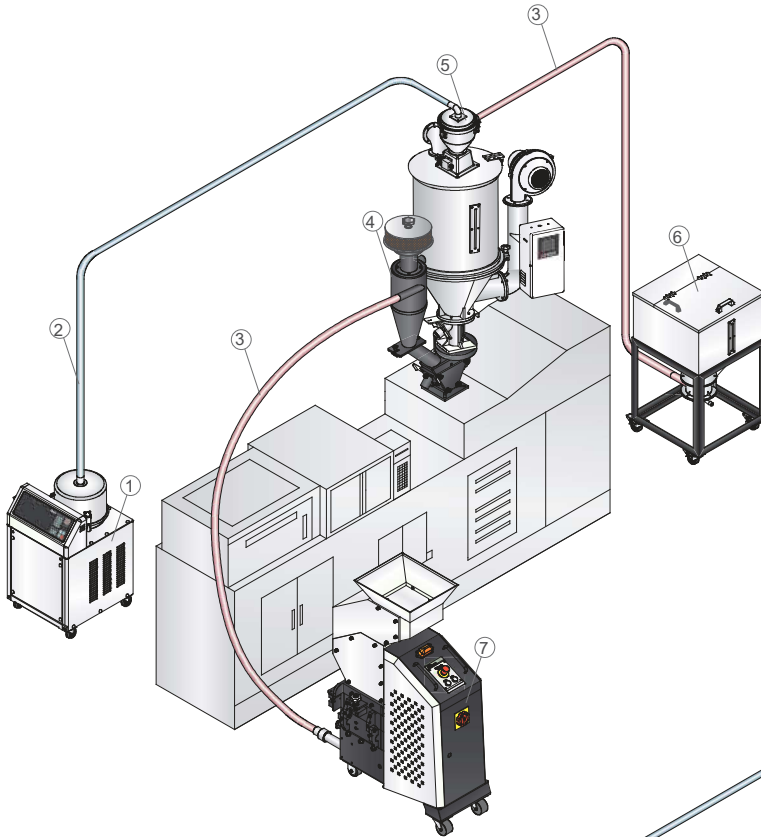
## Application





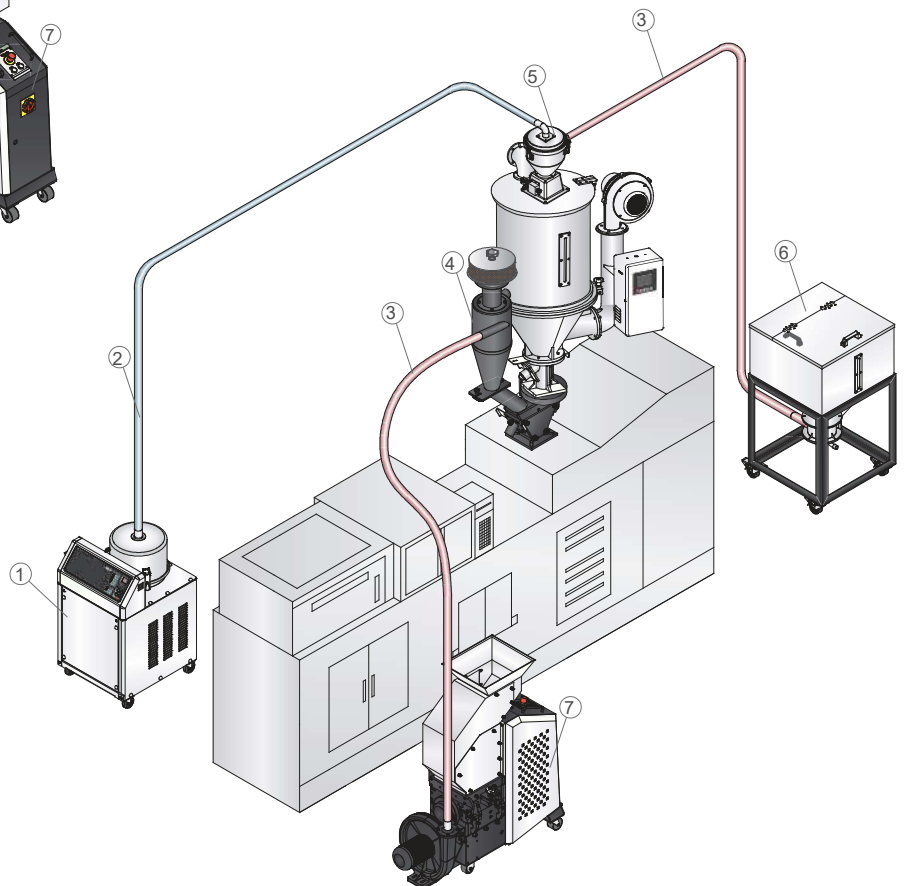
**Options**

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



- 1. Hopper loader
- 2. Vacuum pipe
- 3. Material pipe
- 4. 30-Sec instant recycling system
- 5. Vacuum hopper
- 6. Material tank
- 7. Screenless granulator

VR Type 30-Sec Instant Recycling



BR Type 30-Sec Instant Recycling

# SG-14/24N/24T

## 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-24N/24T series.

## Dust Separator (DS Type)



Dust Separator (DS type) can separate the dust in the regrind for immediate recycle 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.

## Proportional Valve

Proportional valves mix regrind with new materials in a proper proportion, and then send them back to the IMM. It features easy installation and excellent accuracy. For details, please refer to the brochure of SPV-U. 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. Applicable to SG-24N/24T series.



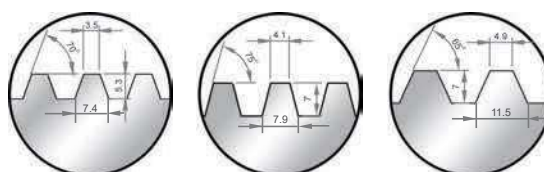
## Manual Collection Bin

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



- Stainless Steel Made Feed Port and Storage Tank, add "R" at the end of the model code.

## Teeth Cutter

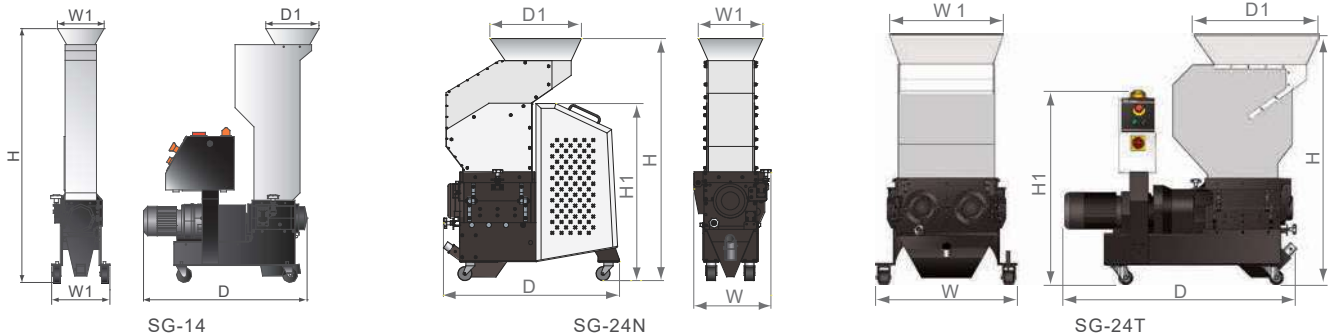


Narrow

Standard

Dilated

## 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	1330	1330	1330	1480	1360	1360
		inch	42.5	42.5	52.4	52.4	52.4	58.3	53.5	53.5
	H1	mm	/	/	975	975	975	975	1060	1060
		inch	/	/	38.4	38.4	38.4	38.4	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	350	350	350	350	620	620
		inch	9.3	9.3	13.8	13.8	13.8	13.8	24.4	24.4
	D	mm	740	785	770	870	970	1070	1269	1365
		inch	29.1	30.9	30.3	34.3	38.2	42.1	50	53.7
	D1	mm	210	266	310	410	500	580	688	785
		inch	8.3	10.5	12.2	16.1	19.7	22.8	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.

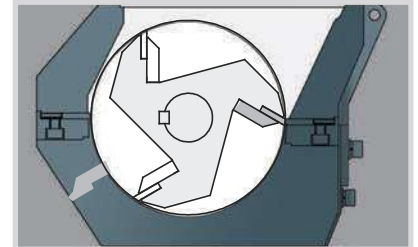
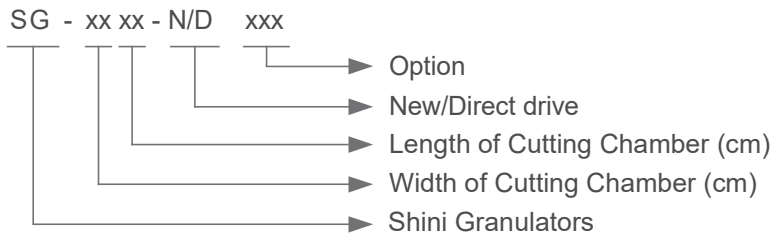
# Low-speed Granulator



SG-1628N

# SG-16N/16D/20N Series

## ■ Coding Principle



SG-16N/16D Structural Drawing of Staggered Blades

## ■ Features

- SG-16N/16D series adopts staggered blades and unfixed blades to diffuse impact load, improve cutting efficiency. The blade rest design without adjustment makes blade replacement more convenient.
- Low granulating speed and sharp angle design of rotating blades are helpful for smooth and continuous operation.
- SG-20N series is equipped with presetting knife jig, simple cutter installation adjusting technology makes the rotating blades and fixed blades be adjusted within clamps outside machine, no longer needs to be adjusted from inside of machine as before.
- Gear motor of SG-1628D series directly drives the blades to rotate for granulating, which saves regulation and maintenance time of belt driving and tension.
- The material collector is located outside the cutting chamber to avoid 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 in size with castors for easy moving.
- High safety grade design to comply with European safety standard.
- With built-in magnet installed at the inlet of the feeding chamber, metal impurities in the materials can be avoided.



SG-16N/16D Staggered Blades



SG-20N Paddle Blades



Presetting Knife Jig

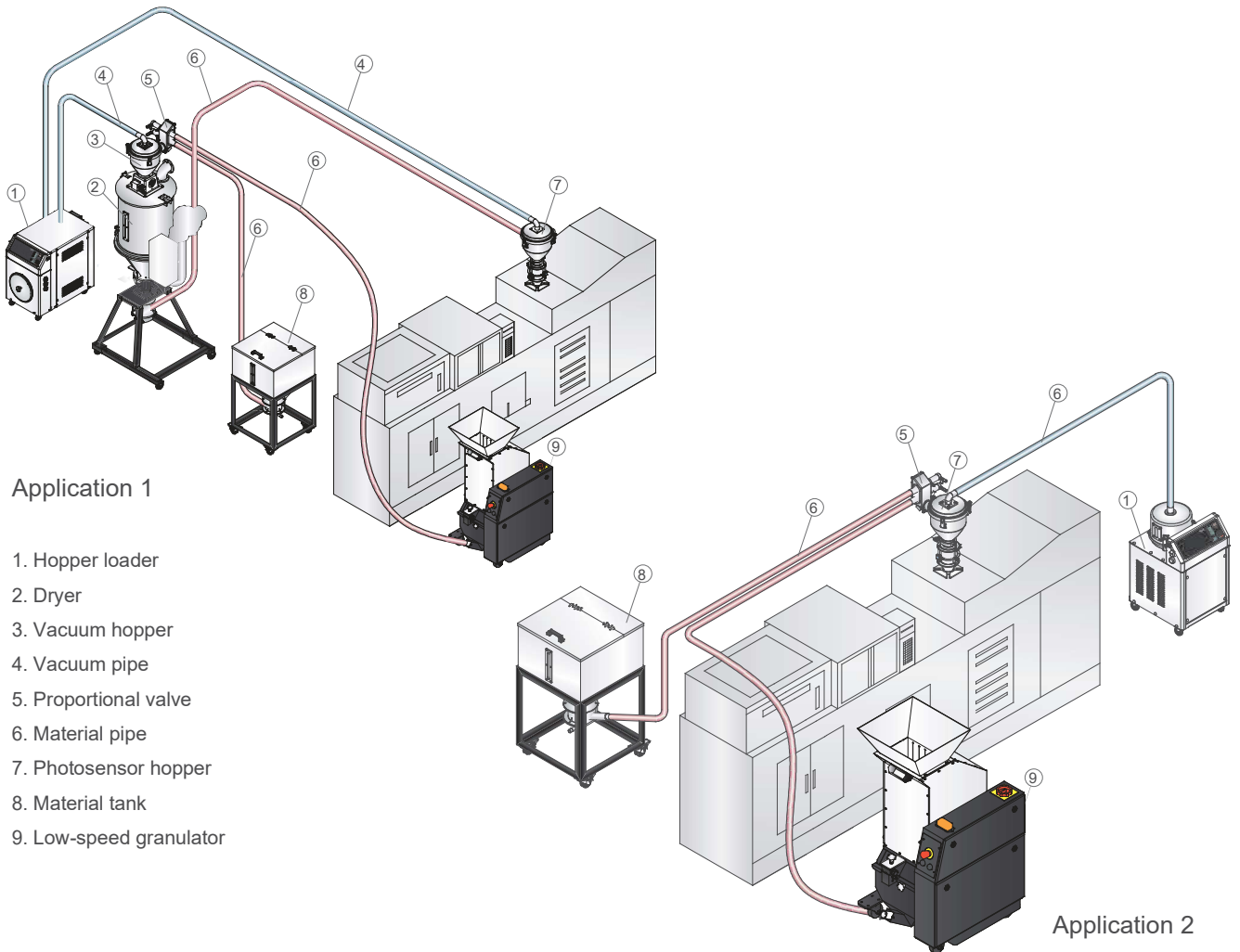


SG-1628D

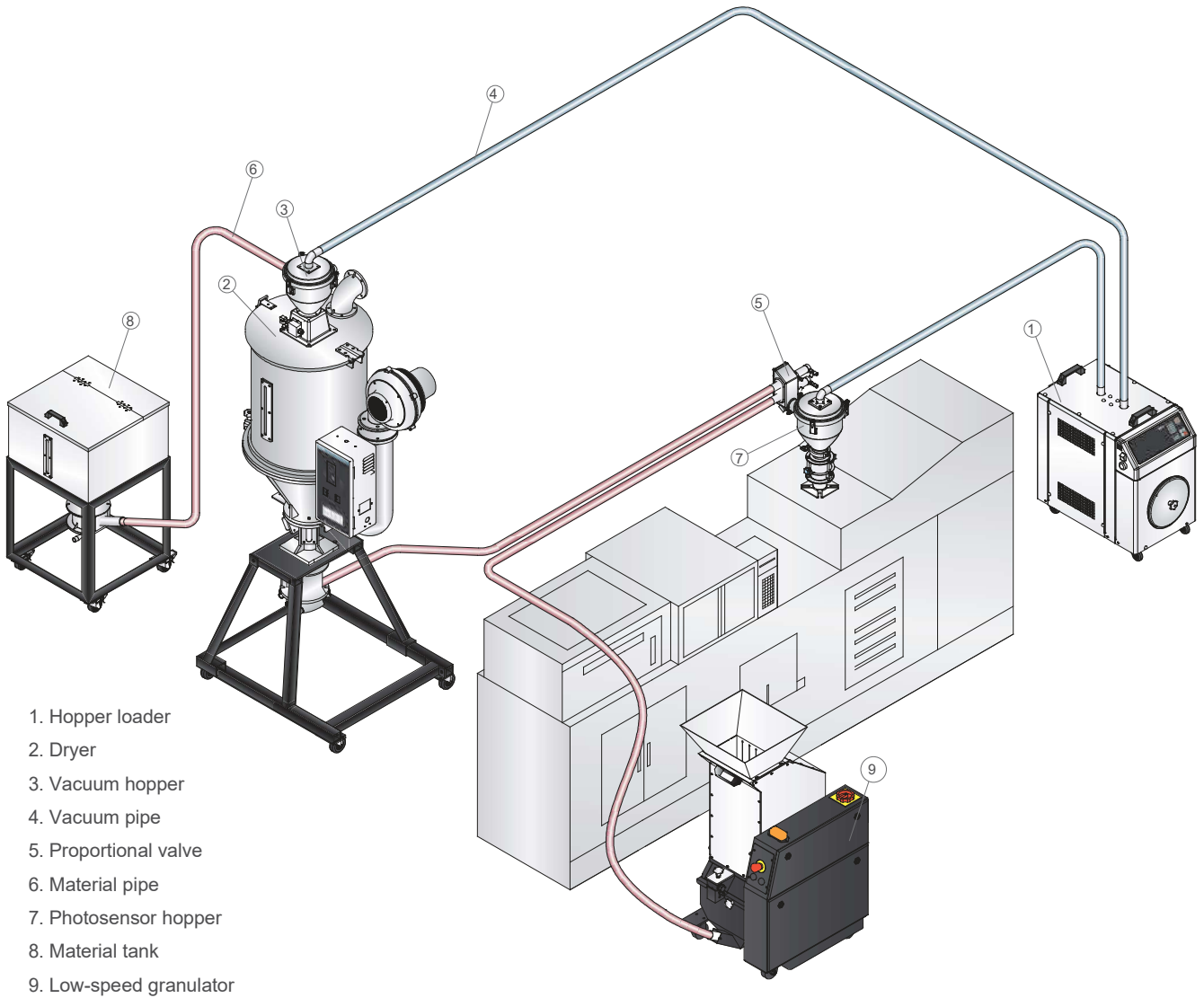
# SG-16N/16D/20N Series

## Application

SG-16N/16D/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.





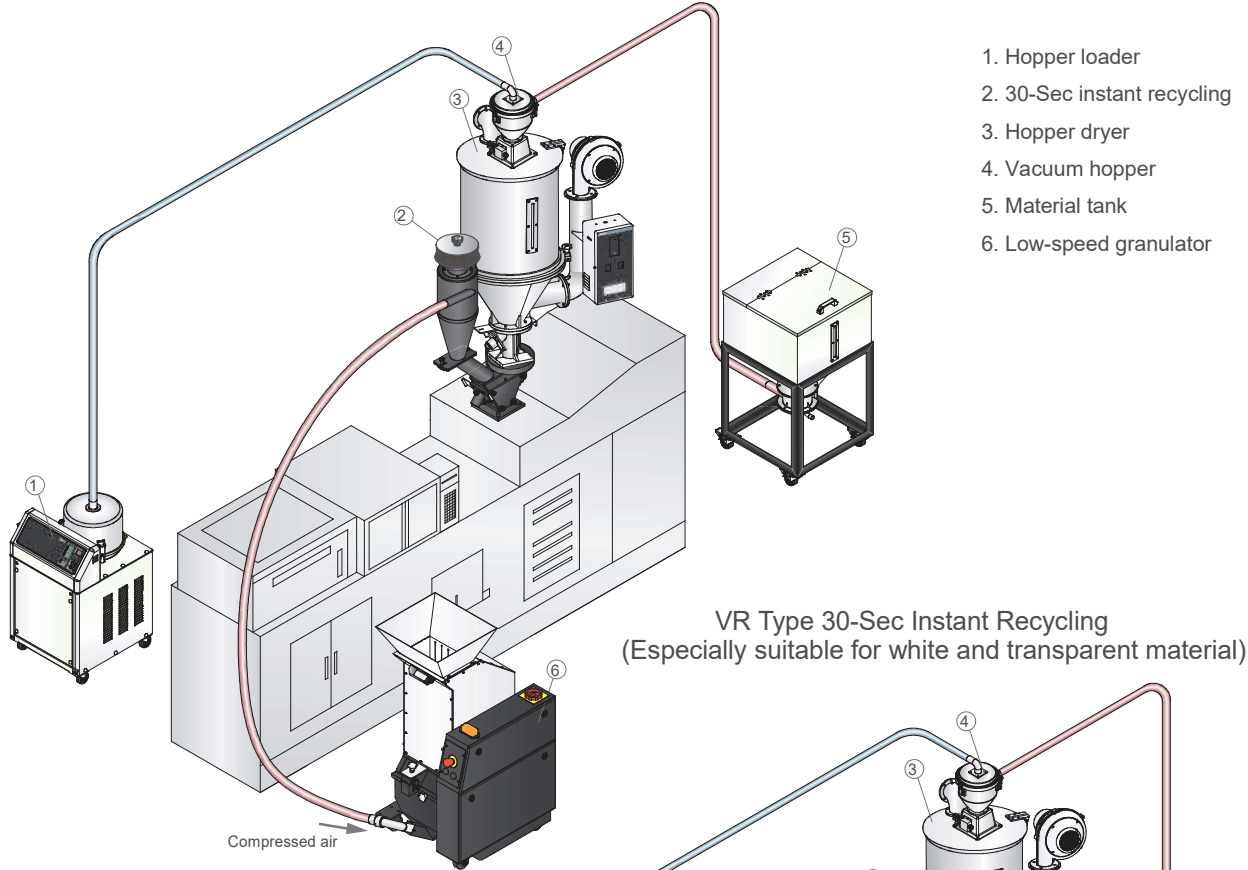


Application 3

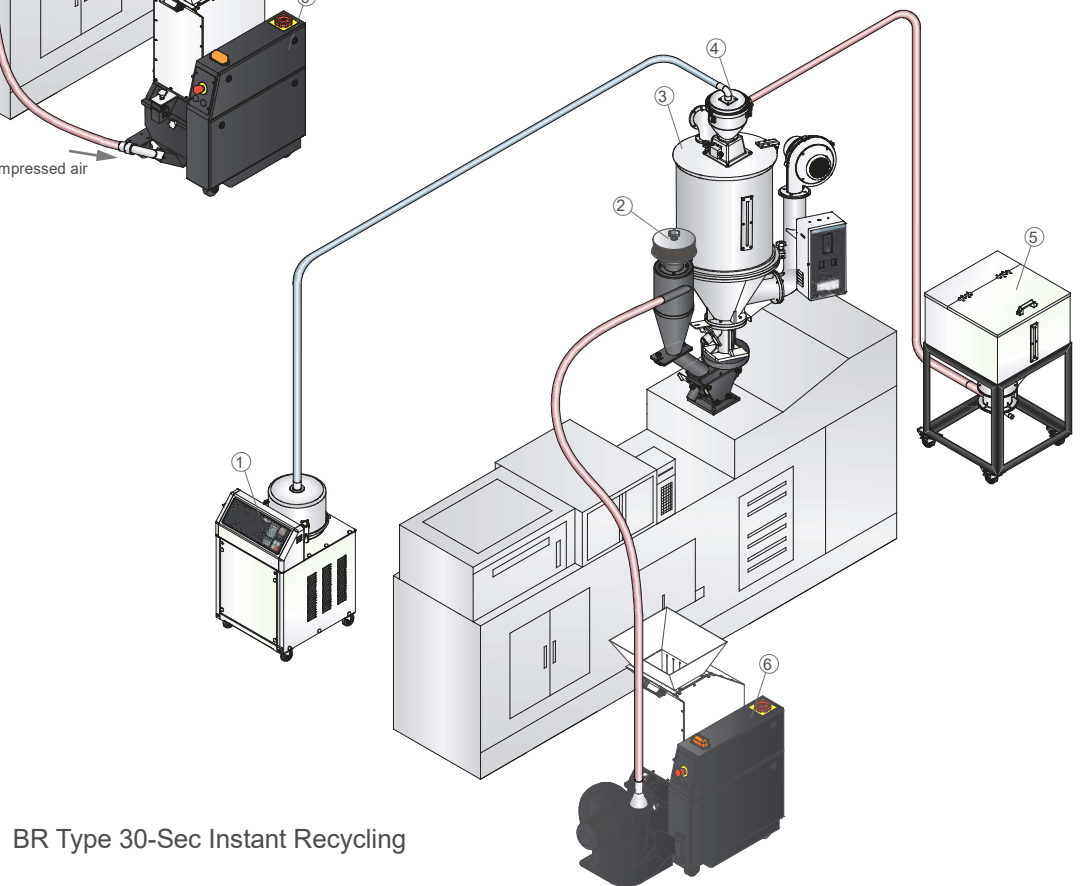
# SG-16N/16D/20N Series

## Options

30-Sec Instant Recycling System (Patented product)



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





**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.

Applicable to SG-16N/16D/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/16D/20N series.

**Dust Separators (DS Type)**

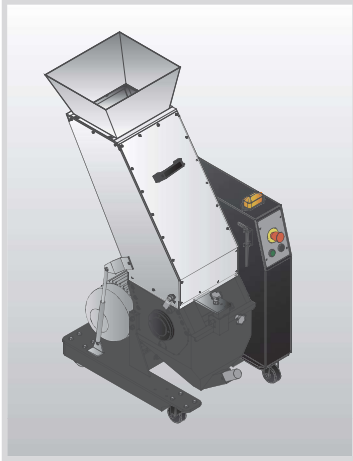
Dust Separator (DS type) can separate the dust in the regrind for immediate recycle use. The dust will be kept in filter bag, thus working environment will be maintained clean. This device ensures full use of regrind to avoid material wasting and enhance the economy returns.

Applicable to SG-16N/16D/20N series.



# SG-16N/16D/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).

## Proportional Valve



Proportional valves mix regrind with new materials in a proper proportion, and then send them back to the IMM. It features easy installation and excellent accuracy. For details, please refer to the brochure of SPV-U.

## Special Screen



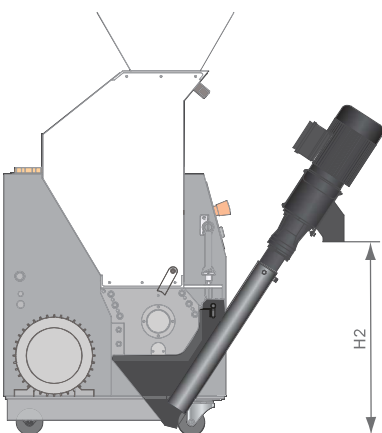
Special screen mesh sizes includes  $\Phi 4$ ,  $\Phi 6$ ,  $\Phi 8$ ,  $\Phi 10$ ,  $\Phi 12$ (mm), which are applicable to SG-16N/16D series; and  $\Phi 4$ ,  $\Phi 5$ ,  $\Phi 7$ ,  $\Phi 8$ ,  $\Phi 10$ ,  $\Phi 12$  (mm), which are applicable to SG-20N series. All can be selected to meet customer's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

## Double-layer Screen



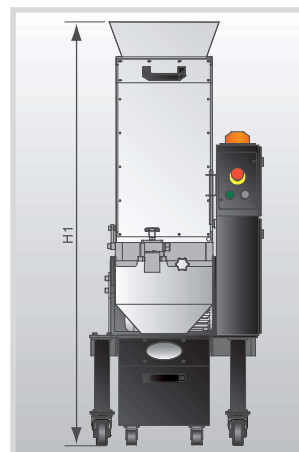
Double-layer screen is designed for customers with long and thin materials.

## Optionally Equipped with Coiled Spring Conveyor



Applicable to SG-16N/20N series.

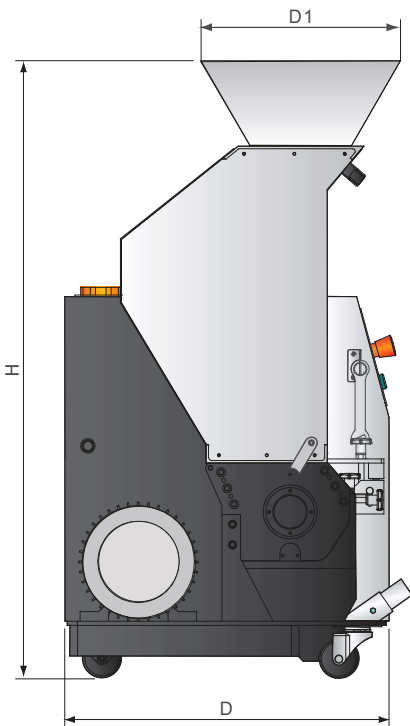
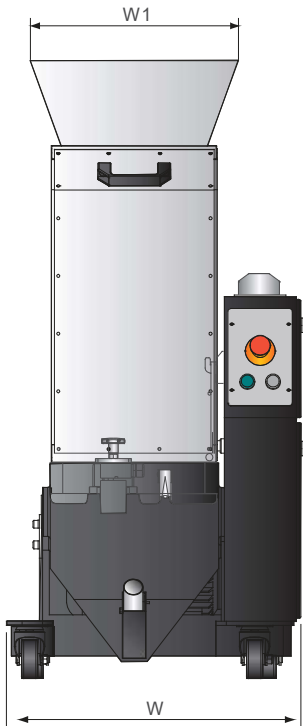
## Height-increasing storage bin



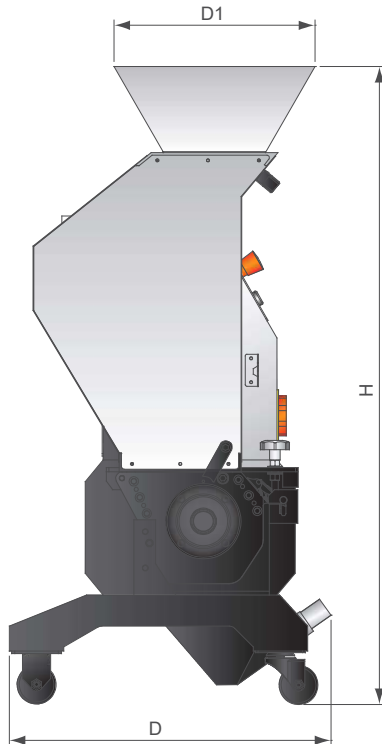
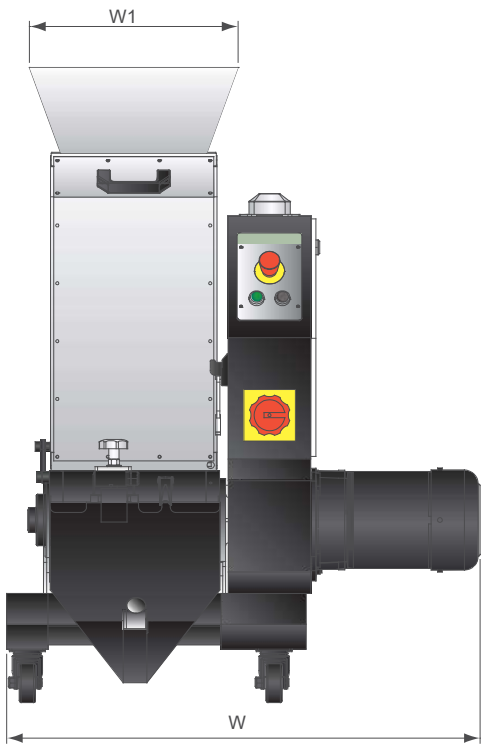
Height-increasing storage tank helps to collect and store regrind. Applicable to SG-16N/20N series.

- For granulating fibre-added material, it increases fibre-added granulator model for choose. Adopt surface-hardening treatment on the material contacting components. SG-20N fibre-added model chooses V-4E blade material. Add "F" at the model behind.
- 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.

■ Outline Drawings



SG-16N/20N



SG-16D

# SG-16N/16D/20N Series

## Specifications

Model	SG-	1621N	1628N	1635N(H)	2028N(H)	2028NC(H)	2042N(H)	2042NC(H)	1628D	
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)	2.2	
Rotating Speed (rpm, 50/60Hz)		230/278	235 /285	235/285 (240/290)	290/350	290/350	290/350	290/350	220	
Material of Blades		SKD11	SKD11	SKD11	SKD11	SKD11	SKD11	SKD11	SKD11	
Type of Blades		Staggered	Staggered	Staggered	Paddle Blades	Staggered	Paddle Blades	Staggered	Staggered	
Quantity of Fixed Blades		2 × 1	2 × 1	2 × 2	2	2	2	2	2 × 1	
Quantity of Rotating Blades		9	12	15	3	12	3	18	12	
Presetting Knife Jig		-	-	-	√	√	√	√	-	
Cutting Chamber	mm	160 × 210	160 × 280	160 × 350	200 × 280	200 × 280	200 × 420	200 × 420	160 × 280	
	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	6.3 × 11	
Max. Output Capacity		35	50	60 (80)	80	80	135	135	50	
Noise Level dB(A) (kg/hr, 50/60Hz)		85 ~ 90	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)	(Φ5)	
Dimensions	H	mm	1200	1200	1200	1270	1270	1270	1270	1180
		inch	47.2	47.2	47.2	50	50	50	50	46.5
	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	920
		inch	19.8	22.6	25.4	22.6	22.6	28.1	28.1	36.2
	W1	mm	330	400	470	405	405	545	545	365
		inch	13	15.7	18.5	15.9	15.9	21.5	21.5	14.4
	D	mm	630	630	630	695	695	695	695	620
		inch	24.8	24.8	24.8	27.4	27.4	27.4	27.4	24.4
	D1	mm	385	385	385	435	435	435	435	330
		inch	15.2	15.2	15.2	17.1	17.1	17.1	17.1	13
Weight	kg	175	195/185	210/225	265/280	265/280	300/315	300/315	180	
	lb	386	430/408	463/496	584/617	584/617	661/694	661/694	397	

Notes: 1) "√" stands for standard, "o" stands for options.

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.

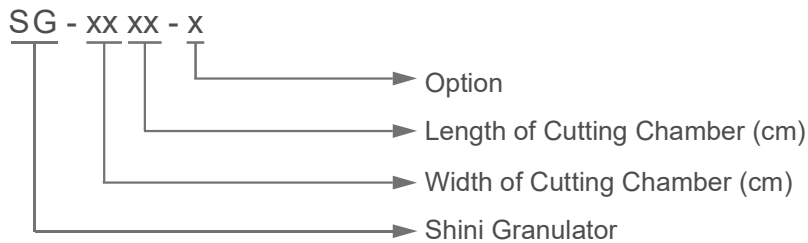
**Sound-proof  
Central Granulator**



**SG-3650**

# 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.



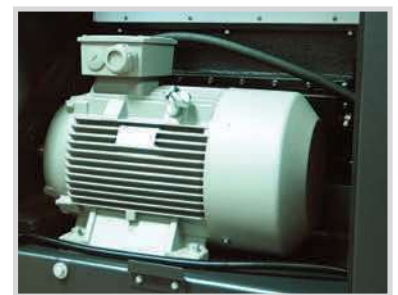
### ● Sound-proofing machine

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

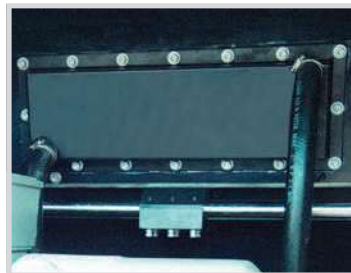
The machine adopts Siemens high-efficiency motor, which has stable performance as well as safe operation and helps energy consumption,





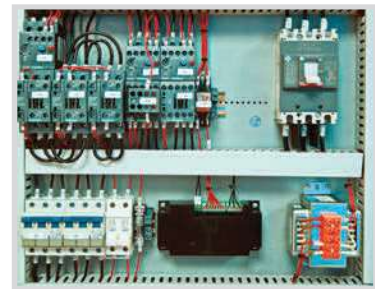
● **Cooling device of cutting chamber**

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.



■ **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.

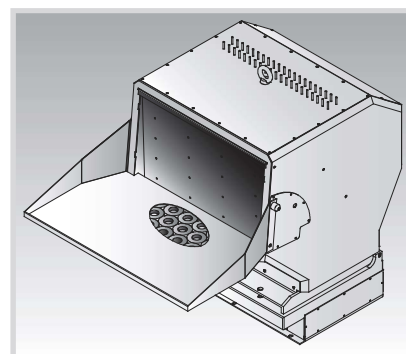
■ **Options**

**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:  
Φ4, Φ6, Φ10, Φ12 (mm) for  
SG-23/30 series, Φ8, Φ12, Φ14,  
Φ17, Φ25 (mm) for SG-36 series.

Add "SS + screen diameter" at the  
end of the model code, e.g.:  
Φ6 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.

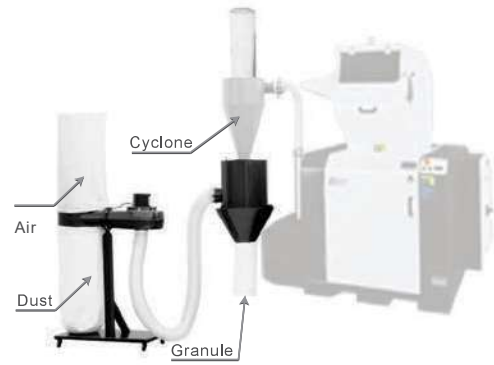


## Material Side Feed Pipe

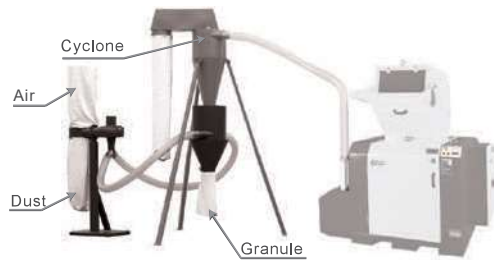
The design of feeding hopper of  
traditional granulators is not  
suitable for long pipes and section  
bars. We have designed material  
side feed pipe for convenient  
feeding of long materials. It's  
optional for SG-36.  
Add "SF" at the end of the model  
code.

## Dust Separator

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



DS-23/30



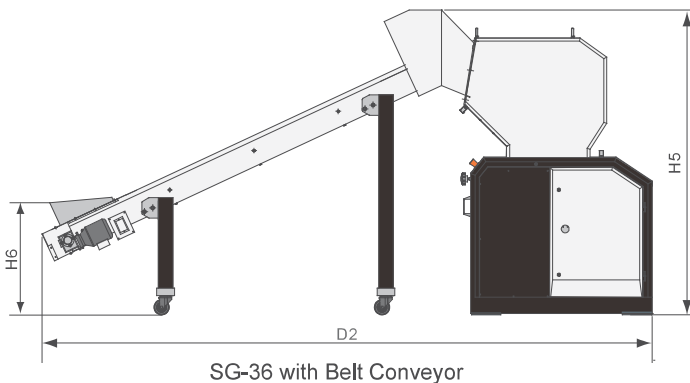
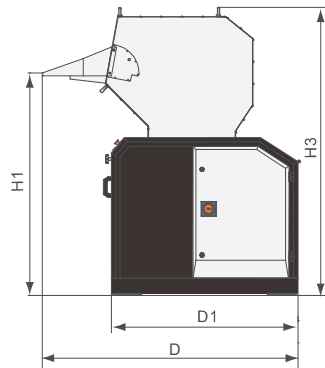
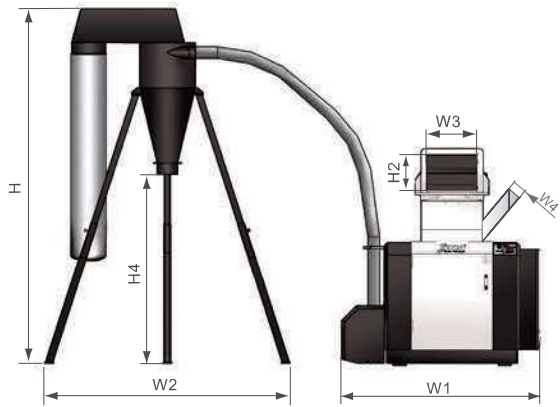
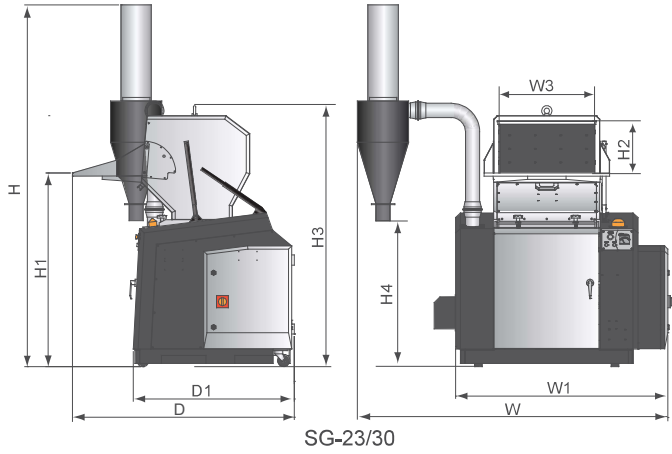
DS-36/43/50/70

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	4200	4200	
	inch	165.4	165.4	
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	230 × 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	2210
		inch	87	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.

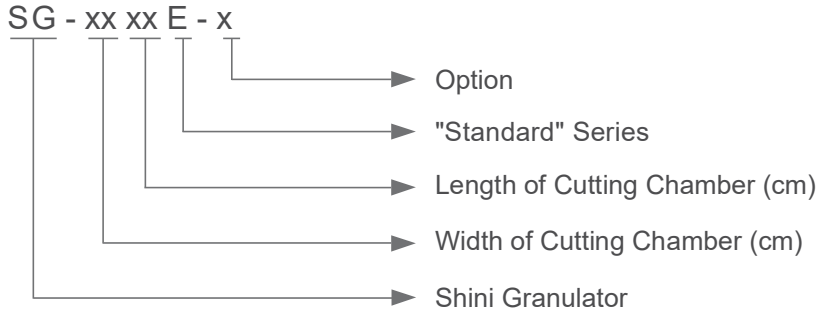
# "Standard" Series SG-23/30/36E



**SG-3675E**

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

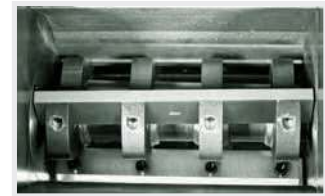
## Coding Principle



SG-2336E

## Features

- SG-23E series adopts staggered blades, SG-30E and SG-36E series adopts paddle blades.
- Blades adopt imported steel to ensure high quality and high durability. Staggered blades design can decentralize working load when granulating to increase cutting efficiency.
- Staggered blades retainer is designed for 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 for saving floor space and castors for easy movement.
- Standard structure design can reduce the cost of replacement parts.



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 model behind.

### Special Screen



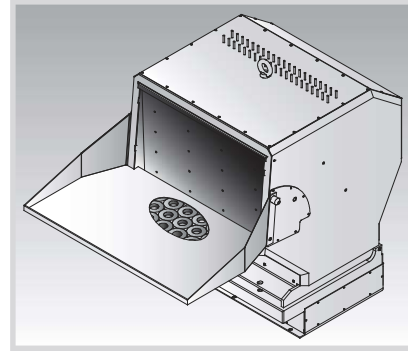
Optional screen mesh sizes includes  $\Phi 4$ ,  $\Phi 6$ ,  $\Phi 10$ ,  $\Phi 12$  (mm) which are applicable to SG-23E/30E series and  $\Phi 8$ ,  $\Phi 12$ ,  $\Phi 17$ ,  $\Phi 25$  (mm) which applicable to SG-36E series. All can be selected as per customer's requirement. Add "SS" at the model behind.

## Flywheel



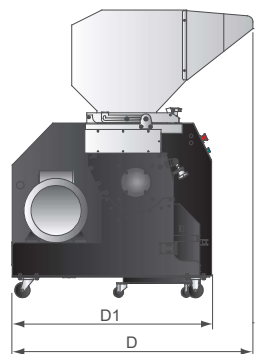
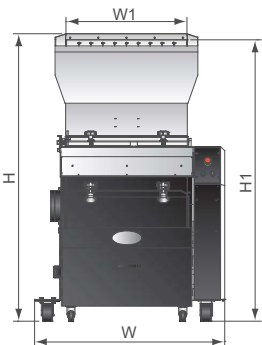
Increase inertia, thereby increasing the cutting ability. At the same time can result in a more balanced force and longer service life. It is an option for SG-36E series. Add "FW" at the model behind.

## Feed Hopper with Magnet



Feed hopper with magnet is used to take out metal craps and impurities in the material. Add "R" at the model behind.

## 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)							
	inch	√ (Φ0.31)							
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) "√" stands for standard.

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

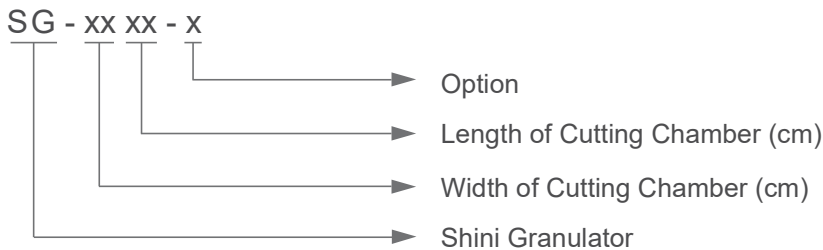
6) Power supply: 3Φ, 230/400/460/575VAC, 50/60Hz.

# Sound-proof Central Granulator



SG-4390

## ■ Coding Principle



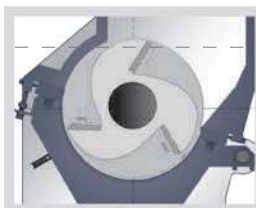
## ■ Features

- **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 (standard)

- **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 positions 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 Siemens high-efficiency motor, which has stable performance as well as safe operation and helps energy consumption,





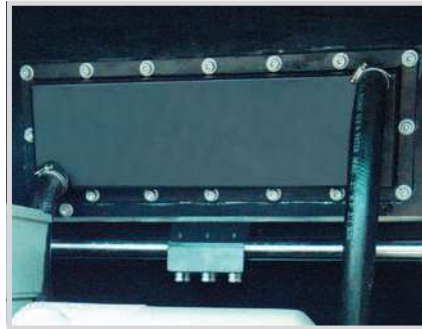
# SG-43 Series

- **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.



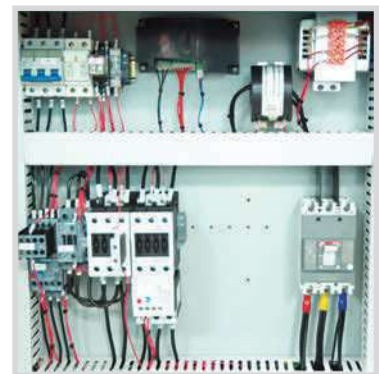
Inlet and outlet



Cooling water Tank

- **Multiple safety protection of control**

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

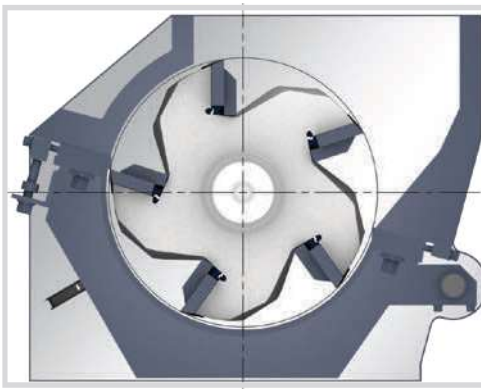


## ■ Application

SG-43 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.

## ■ Options

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



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.

### Special Screens



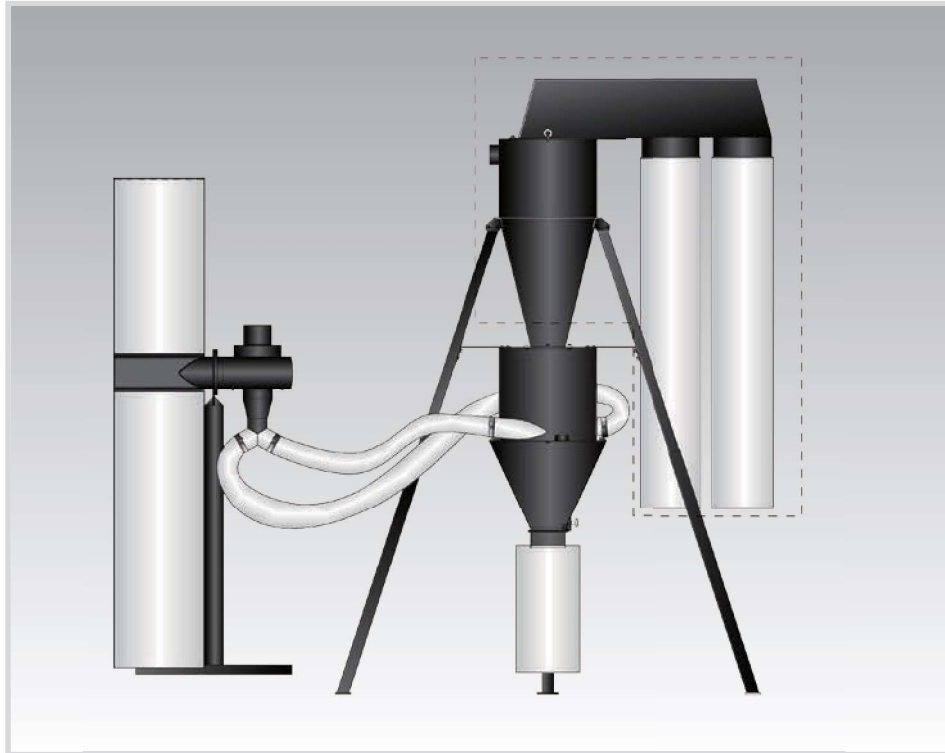
Special screen mesh sizes:  
Φ8, Φ10, Φ14, Φ17,  
Φ25 (mm) for SG-43 series.

Add "SS + screen diameter" at the end of the model code, e.g.:  
Φ8 mm, add "SS08".



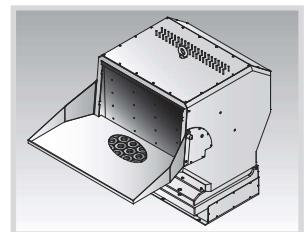
Options

Cyclone dust separator conveying device



Dust Separator can separate the dust in the regrind for immediate recycle use. The dust will be kept in filter bag, thus working environment will remain clean. This device ensures full use of regrind to avoid material wasting and enhance the economy returns. Add "DS" at the end of the model code.

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;

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.



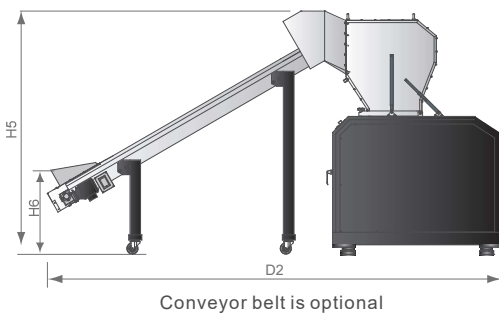
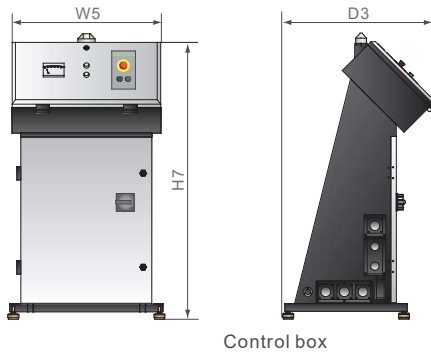
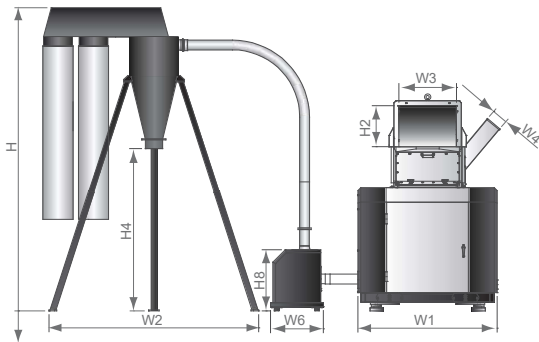
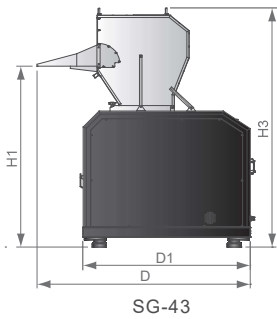
Feeding Hopper for Conveyor

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.

- 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 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 blower is optional, add "EC" at the end of model code.
- Higher-power motor is optional, add "H" at the end of model code.

# SG-43 Series

## Outline Drawings



## Specifications

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	2710~3155
		inch	106.7~124.2	106.7~124.2
	H1 (mm)	mm	1708	1708
		inch	67.2	67.2
	H2 (mm)	mm	430	430
		inch	16.9	16.9
	H3 (mm)	mm	2260	2260
		inch	89	89
	H4 (mm)	mm	1240~1690	1240~1690
		inch	48.8~66.5	48.8~66.5
	H5 (mm)	mm	2277	2277
		inch	89.6	89.6
	H6 (mm)	mm	750	750
		inch	29.5	29.5
	H7 (mm)	mm	1268	1268
		inch	50	50
	H8 (mm)	mm	636(970)	636(970)
		inch	25(38.2)	25(38.2)
	W1 (mm)	mm	1450	1750
		inch	57	69
	W2 (mm)	mm	1900~2310	1900~2310
		inch	74.8~90.9	74.8~90.9
	W3 (mm)	mm	600	900
		inch	23.6	35.4
W4 (mm)	mm	166x 166	166 x 166	
	inch	6.5 x 6.5	6.5 x 6.5	
W5 (mm)	mm	720	720	
	inch	28.3	28.3	
W6 (mm)	mm	552(630)	552(630)	
	inch	21.7(24.8)	21.7(24.8)	
D (mm)	mm	1978	1978	
	inch	77.9	77.9	
D1 (mm)	mm	1553	1553	
	inch	61	61	
D2 (mm)	mm	4300	4300	
	inch	165.4	167.4	
D3 (mm)	mm	690	690	
	inch	27.2	27.2	
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.