Medium Speed Granulator

SG-M23



Refer carefully to this manual before operation.

SG-M Series

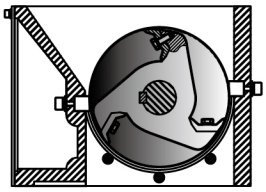
Coding Principle

SG - Mxx - x

- Options
- Length of Cutting Chamber (cm)
- Medium Speed
- Shini Granulator



Cutting chamber



Teeth cutter diagram

Features

- Integrated microcomputer can monitor the granulator working, with timer running,phase sequence detection and current detection functions.
- The machine can be set to run at intervals according to the actual demands, saving up to 50% energy.
- Adopt brand gear motor that features stable performance, long service life and large torque.
- Gear motor is connected with the main shaft with the coupling, making it easy to replace cutters and gear motor.
- Staggered blades adopt V-type cutting technology, which pushes the feeding material into the center of the cutting rotor to prevent the material from adhering to the inner side of the cutting chamber while enhancing its durability.
- Unique staggered shape with double edge design allows the cutters to be mounted directly without clearance adjustment and maintain a fixed cutting curve and clearance after wear, which can significantly reduce the downtime for cutter disassembly and assembly.
- The staggered blade can be capsized if one side is blunt, and the fixed blade can be reshaped after being reused for four times, thus enhancing the cutter's durability.
- Optimal design can effectively reduce vibration during the operation of the granulator.
- The front and rear fixed cutter and staggered blade are in double-edged design, and the cutter or blade can be capsized if one side is blunt to double their service life.
- The non-slip handle design, with leveling castors at the machine bottom enables seamless switching between mobile and stationary modes. To move the machine, rotate the upper foot pad to lower the castors on the ground for easy movement. To secure the machine, rotate the lower foot pad to lift the castors off the ground for deadlock, thus avoiding shaking.
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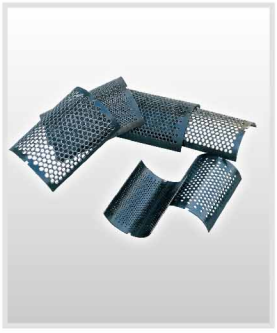
Application

SG-M Medium Speed Granulator is applicable to instant or tiny amounts of granulating of hard and long or solid and flexible sprues. It features a small size, low speed, wear resistance, and ultra silence. The low-speed structure produces an even regrind size and less dust than the previous design. Just a few quick and simple steps to clean residues from the unit.

Simple control and user-friendly make it easy to use. Besides, multiple options are available to meet different production processes and specific demands.

Options

- **Special Screen**



Special screen mesh sizes: Φ5, Φ8, Φ10, Φ12.

The user can choose the option according to their demands.

Add "SS + screen diameter" at the end of the model code, e.g.: Φ8mm, add "SS08".

- **Slant Hole Screen**



Especially for the filtering of long strips, the slant hole screen Φ5mm and Φ6mm 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 screenΦ5.

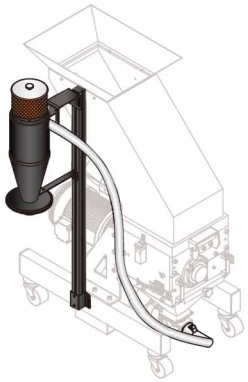
- **Manual Collection Bin**

Manual collection bin helps to collect and store regrind. Add "CB" at the end of the model code.



- **Regrind Conveying Via Blower & Cyclone (PC 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 the material storage hopper.



- **Magnet Feed Box**

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.

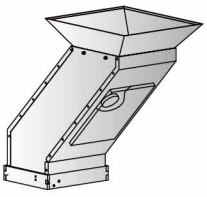


- **Multi-function Control Box**

The granulator can be controlled through the integrated microcomputer, and it has an alarm and reverse running functions when the microcomputer detects an obstruction in the blade shaft. With proportional valve control function, the continuous mode or intermittent mode of the blade shaft can be selected as per the demand, and add "MFB" at the end of the model code. Besides, optional functions of PC/PR/VR are available, and add "MFB" at the end of the model code.



- The discharge port cover is available for the feed box. When the machine doesn't work, cover the discharge port can reduce the material contamination caused by dust or other sundries dropped into the cutting chamber after machine shutdown, and add "DPC"at the end of the model code.



- **Food & Medical Grade**

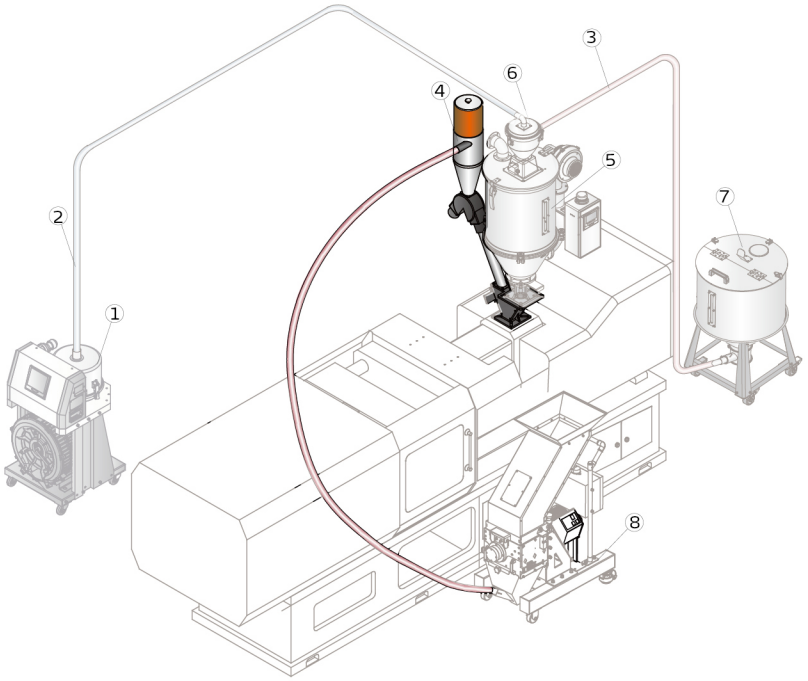
When processing food/medical grade regrinds, all material contacted surfaces are made of stainless steel to prevent material contamination, and add "FG" at the end of the model code.

- **Auto Pneumatic Feeding Inlet**

When the equipment is used in demanding environments, such as food/medical-grade granulating or cleanroom production, the inlet is closed automatically once the material is fed through the inlet, thus preventing dust and foreign material from entering or spreading out of the hopper during the process, and add "FPD" at the end of the model code.

30-Sec Instant Recycling System- VR Type

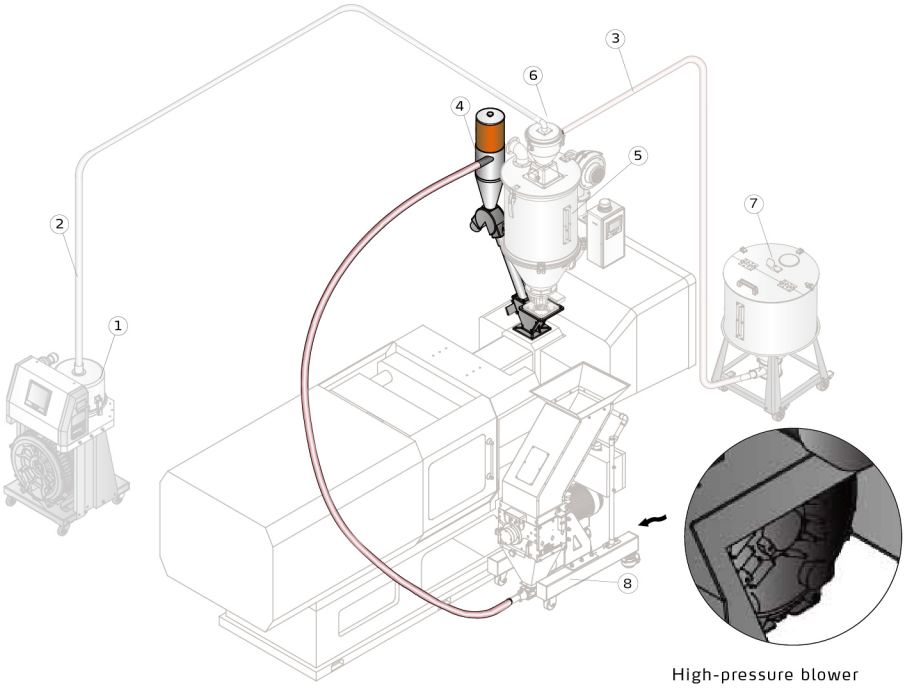
The 30-sec. instant recycling system utilizes the high-pressure blower to blow the regrinds in the material storage tank to the proportional mixer and reuse the regrinds after mixing, so that the sprues will not have physical properties and color changes due to oxidation and humidification, thus improving the products quality.



1. Vacuum Loader
2. Suction pipe
3. Material pipe
4. 30-Sec Instant Recycling System- VR Type
5. Dryer
6. Vacuum hopper receiver
7. Material storage tank
8. SG-M

30-Sec Instant Recycling System- PR Type

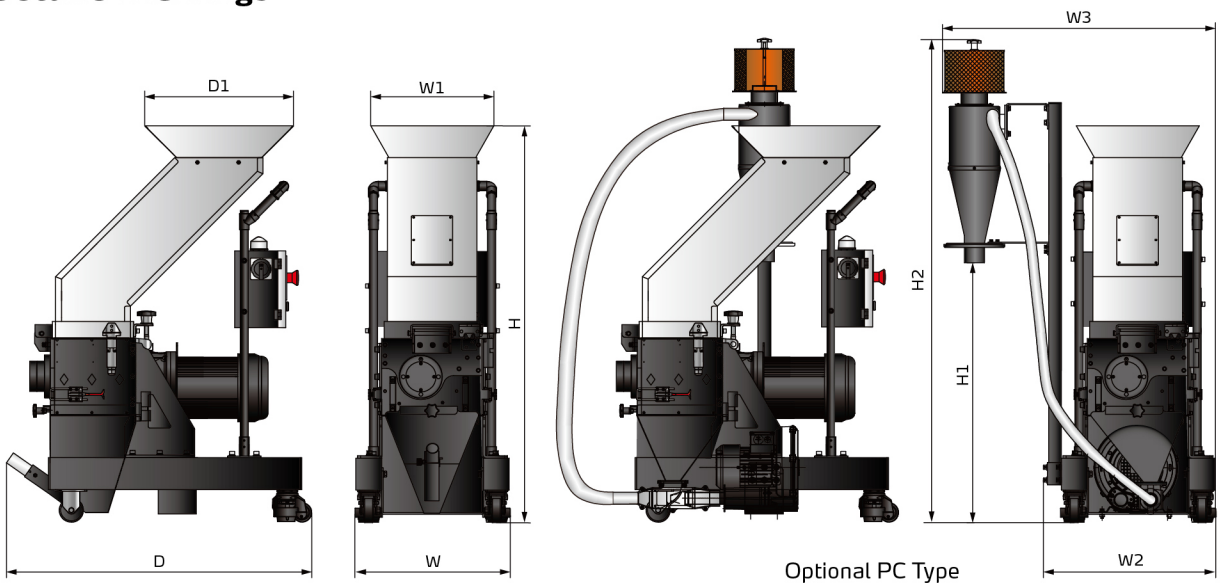
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High-pressure blower

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Outline Drawings



Specifications

Model		SG-M23	SG-M29	SG-M43
Motor Power (kW, 50/60Hz)		2.2/2.57	2.2/2.57	3.7/4.3
Rotating Speed (rpm, 50/60Hz)		150/180	150/180	150/180
Material of Teeth Cutters		Cr12MoV	Cr12MoV	Cr12MoV
Number of Fixed Blades		2×1	2×1	2×1
Number of Rotating Blades		3×8	3×10	3×15
Cutting Chamber (mm)		270 x 230	270 x 290	270 x 430
Max. Throughput Capacity (kg/hr)		30	40	60
Dia. of Screen Mesh (mm)		Φ6	Φ6	Φ6
Noise Level dB(A)		85~90	85~90	85~90
Dimensions	H (mm)	1245	1245	1315
	H1(mm)	570~840	570~840	570~840
	H2(mm)	1270~1540	1270~1540	1315~1540
	W(mm)	485	485	485
	W1(mm)	388	388	388
	W2(mm)	540	540	540
	W3(mm)	856	856	856
	D(mm)	960	1020	1160
	D1(mm)	465	524	663
Weight(kg)		180	210	280

Notes: 1) Max. capacity of the machine is subject to the size and composition of the material.
2) Noise level varies according to different granules and motors.
3) To avoid plastic from sticking to the blades, all materials should be crushed at normal temperature.
4) Power supply: 3Φ, 230/400/460/575VAC, 50/60Hz.

Shini Group

Addr: No. 23, Minhe St., Shulin Dist.,
New Taipei, Taiwan

Tel: +886 2 2680 9119

Fax: +886 2 2680 9229

Email: shini@shini.com

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