



Low-speed Granulator

SG-1628N

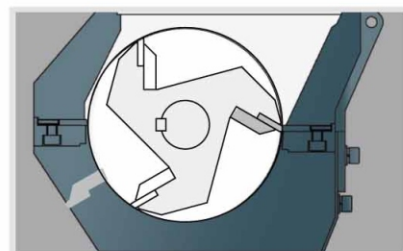
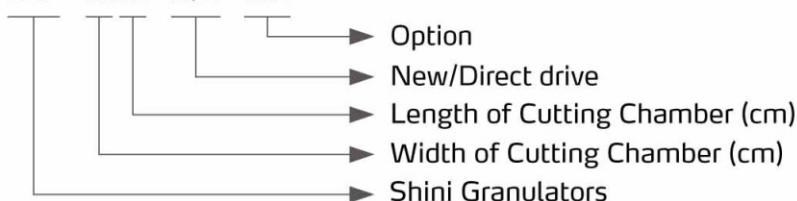


Refer carefully to this manual before operation.

SG-16N/16D/20N Series

■ Coding Principle

SG - xx xx - N/D xxx



SG-16N/16D/SG-20NC
Structural Drawing of Staggered
Blades

■ Features

- SG-16N/16D/SG-20NC series adopts staggered blades and un-fixed 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/SG-20NC
Staggered Blades



SG-20N Paddle Blades



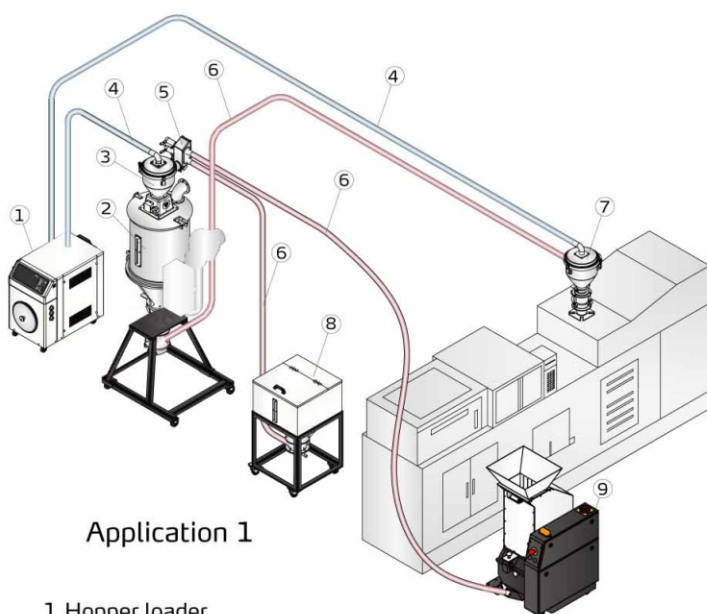
Presetting Knife Jig



SG-1628D

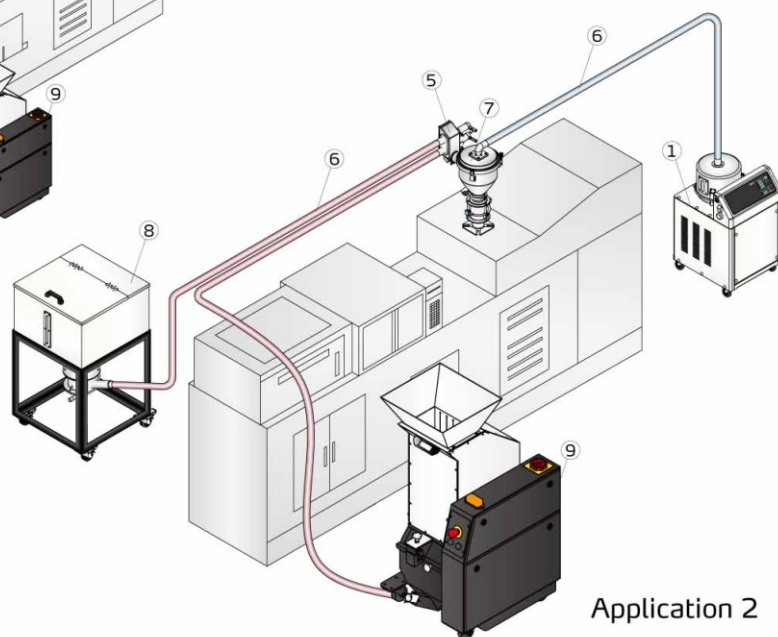
■ Application

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.



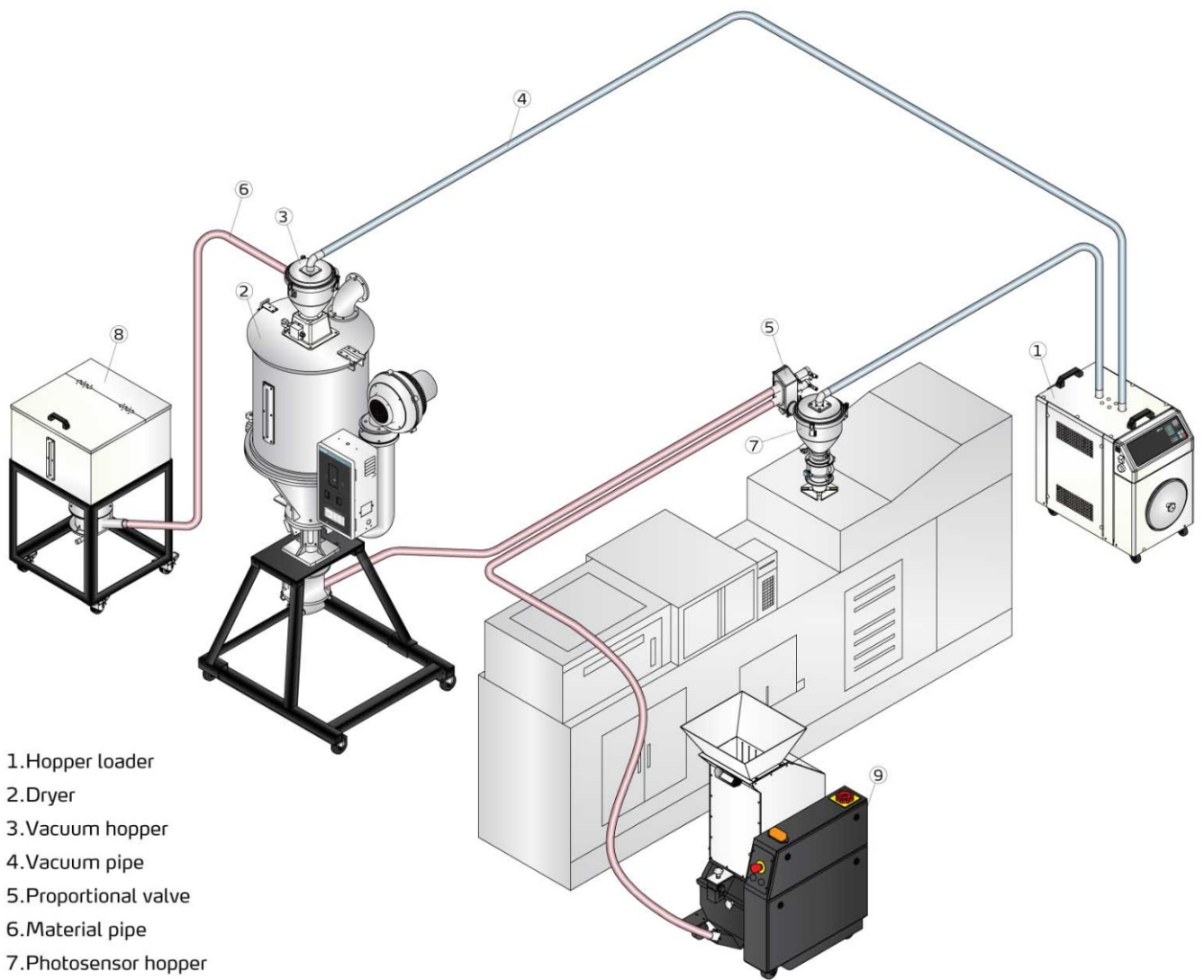
Application 1

- 1.Hopper loader
- 2.Dryer
- 3.Vacuum hopper
- 4.Vacuum pipe
- 5.Proportional valve
- 6.Material pipe
- 7.Phtosensor hopper
- 8.Material tank
- 9.Low-speed granulator



Application 2

SG-16N/16D/20N Series

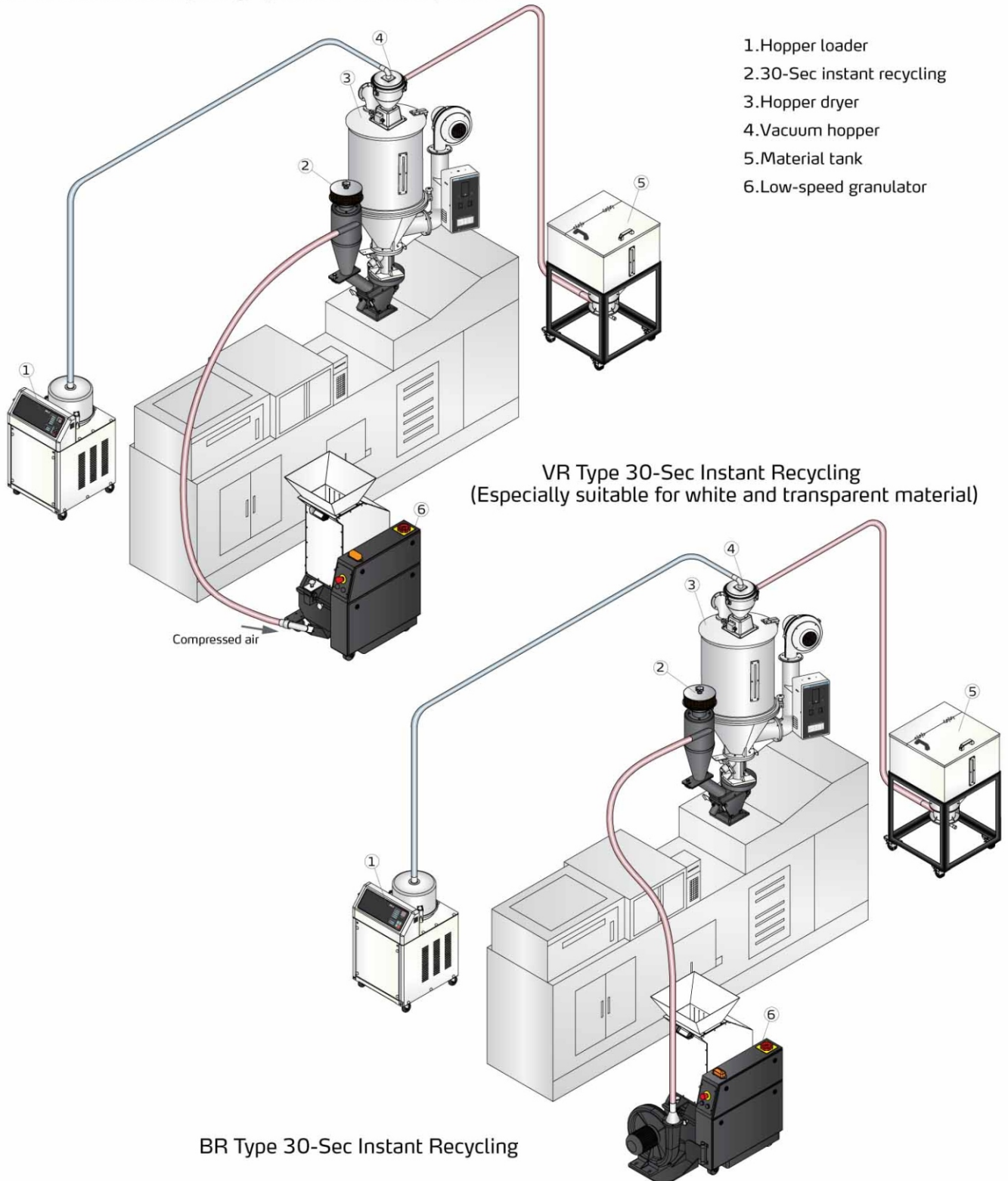


- 1. Hopper loader
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- 5. Proportional valve
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Application 3

Options

30-Sec Instant Recycling System (Patented product)



SG-16N/16D/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/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.



Straight Hopper



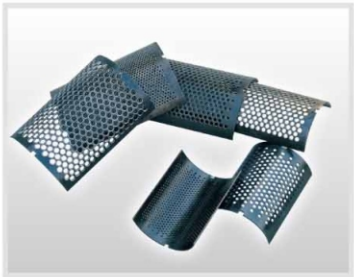
Straight hopper has been designed to meet the demand of grinding pipes and runners. Applicable to SG-20N blades series(exclusive of SG-2028NH).

Proportional Valve



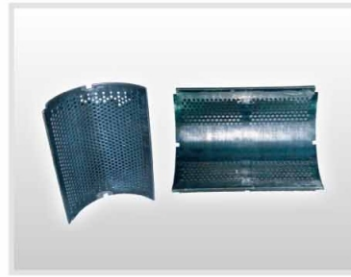
Proportional valves mix regrind with new materials in a proper proportion, and then send them back to the IMM. It features easy installation and excellent accuracy. For details, please refer to the brochure of SPV-U.

Special Screen



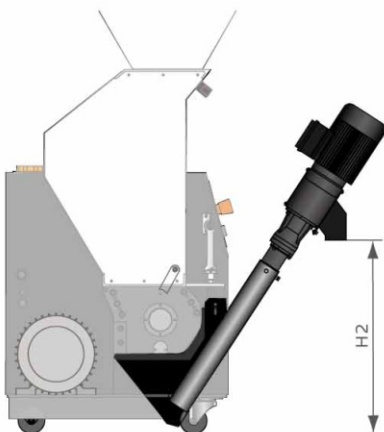
Special screen mesh sizes includes $\Phi 4$, $\Phi 6$, $\Phi 8$, $\Phi 10$, $\Phi 12$ (mm), which are applicable to SG-16N/16D series; and $\Phi 4$, $\Phi 5$, $\Phi 7$, $\Phi 8$, $\Phi 10$, $\Phi 12$ (mm), which are applicable to SG-20N series. All can be selected to meet customer's requirement.

Double-layer Screen



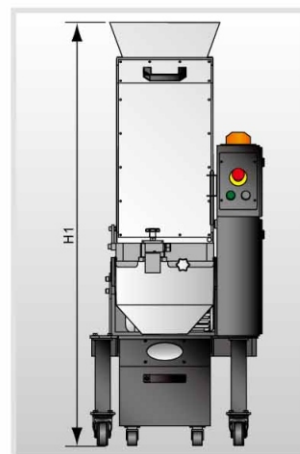
Double-layer screen is designed for customers with long and thin materials.

Optionally Equipped with Coiled Spring Conveyor



Applicable to SG-16N/20N series.

Height-increasing storage bin

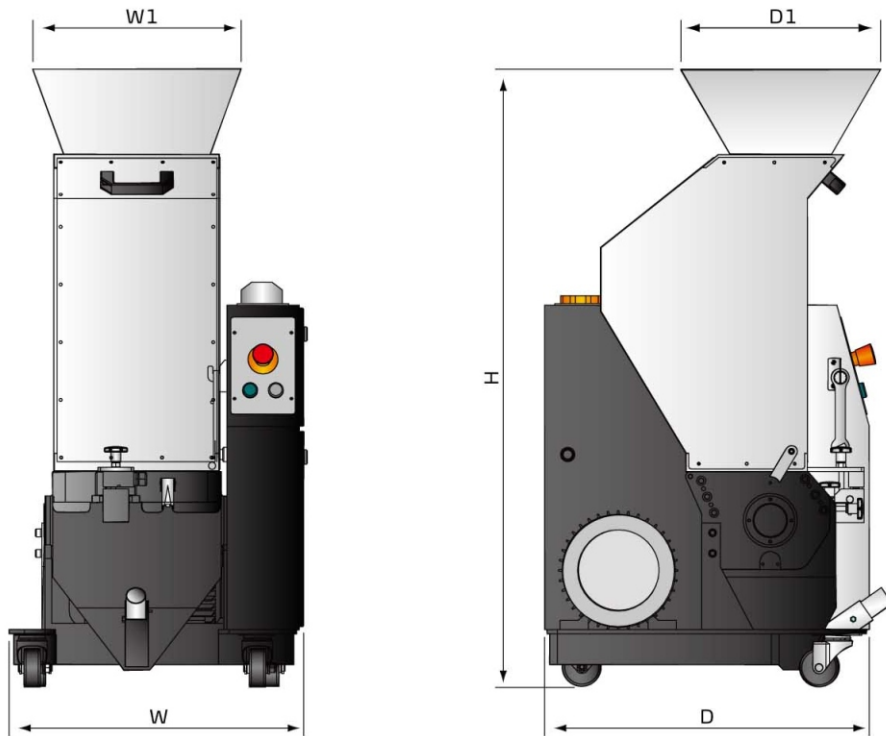


Height-increasing storage tank helps to collect and store regrind. Applicable to SG-16N/20N series.

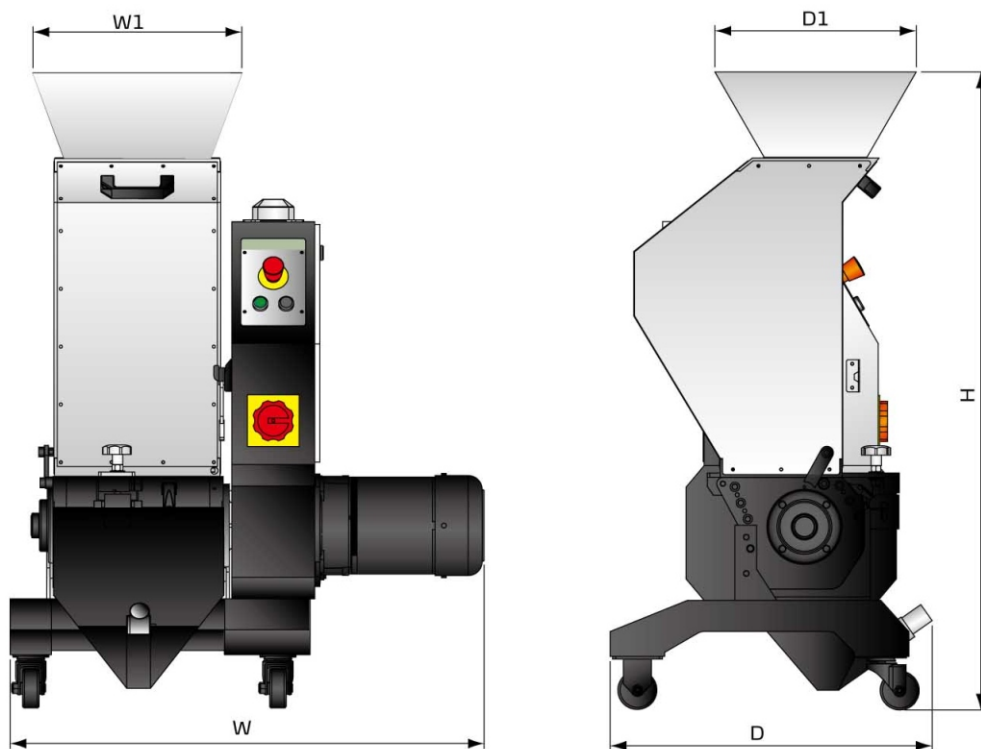
- For granulating fibre-added material, it increases fibre-added granulator model for choose. Adopt surface-hardening treatment on the material contacting components. SG-20N fibre-added model chooses V-4E blade material. Add "F" at the model behind.
- Optional higher Motor Power Add "H" at the model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

SG-16N/16D/20N Series

■ Outline Drawings



SG-16N/20N



SG-16D

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	Paddle Blades	Paddle Blades	Paddle Blades	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	1180
		inch	47.2	47.2	47.2	50	50	50	46.5
	H1	mm	1400	1400	1400	1450	1450	1450	-
		inch	55.1	55.1	55.1	57	57	57	-
	H2	mm	550	550	550	550	550	550	-
		inch	21.7	21.7	21.7	21.7	21.7	21.7	-
	W	mm	505	575	645	575	575	715	920
		inch	19.8	22.6	25.4	22.6	22.6	28.1	36.2
	W1	mm	330	400	470	405	405	545	365
		inch	13	15.7	18.5	15.9	15.9	21.5	14.4
	D	mm	630	630	630	695	695	695	620
		inch	24.8	24.8	24.8	27.4	27.4	27.4	24.4
	D1	mm	385	385	385	435	435	435	330
		inch	15.2	15.2	15.2	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.

SG-16N/20N

Low-speed Granulator

SHINI EUROPE

You Tube Here you can see how the device works



Paddle blades

perfect for thick profiles, sheets and other parts
(only in SG-20N)



Staggered blades

for solid sprues with a high resilience
(only in SG-16N, SG-20NC)



Direct Drive

ensures a long lifespan of device
(optional SG-16ND)



Mobile storage tank

ensures an easy transport of granulated material
(optional)



Adjustment profile

designed for quick blade replacement and adjustment



Energy-saving motor

Siemens or WEG energy-efficient IE2



Magnetic chute

ensures a metal scraps elimination



Sound-proof feed port

ensures reduce of noise level



Spring loader

gives a possibility to load material to external tank (optional)



Simple control

ensures safe and comfortable usage



Heavy pulley

ensures a high kinetic energy



Conveying blower and dust Separators

ensure a constant loading of material to external tank, dust separator will reduce the dustiness (optional)



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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