



Low-speed Granulator

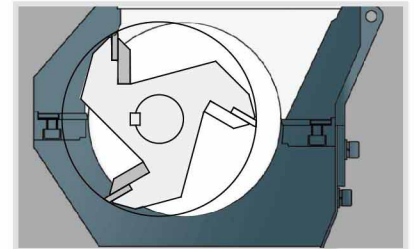
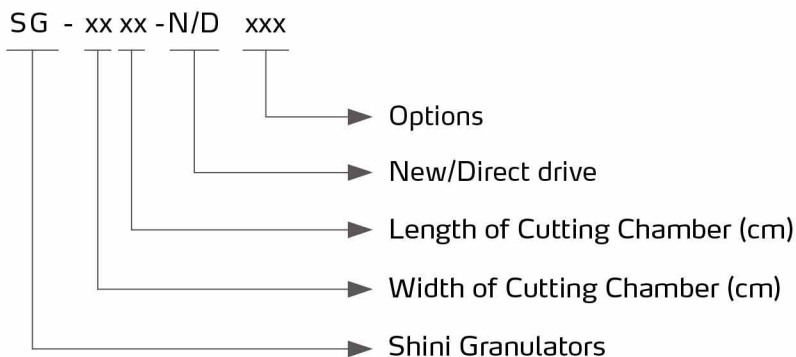
SG-1628N



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



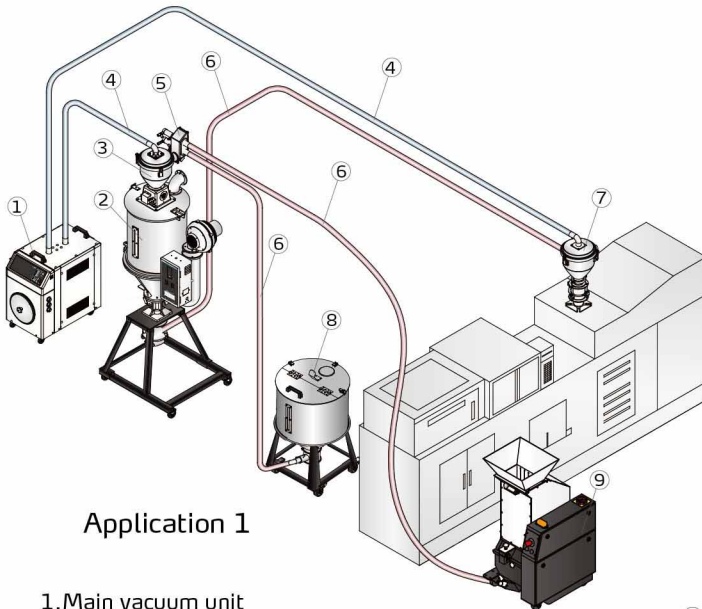
SG-20N Paddle Blades



Presetting Knife Jig

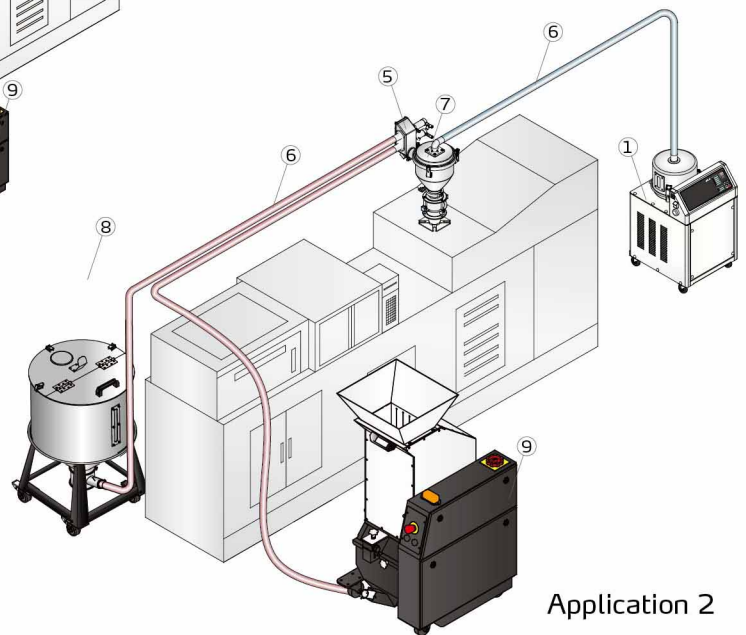
Application

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.



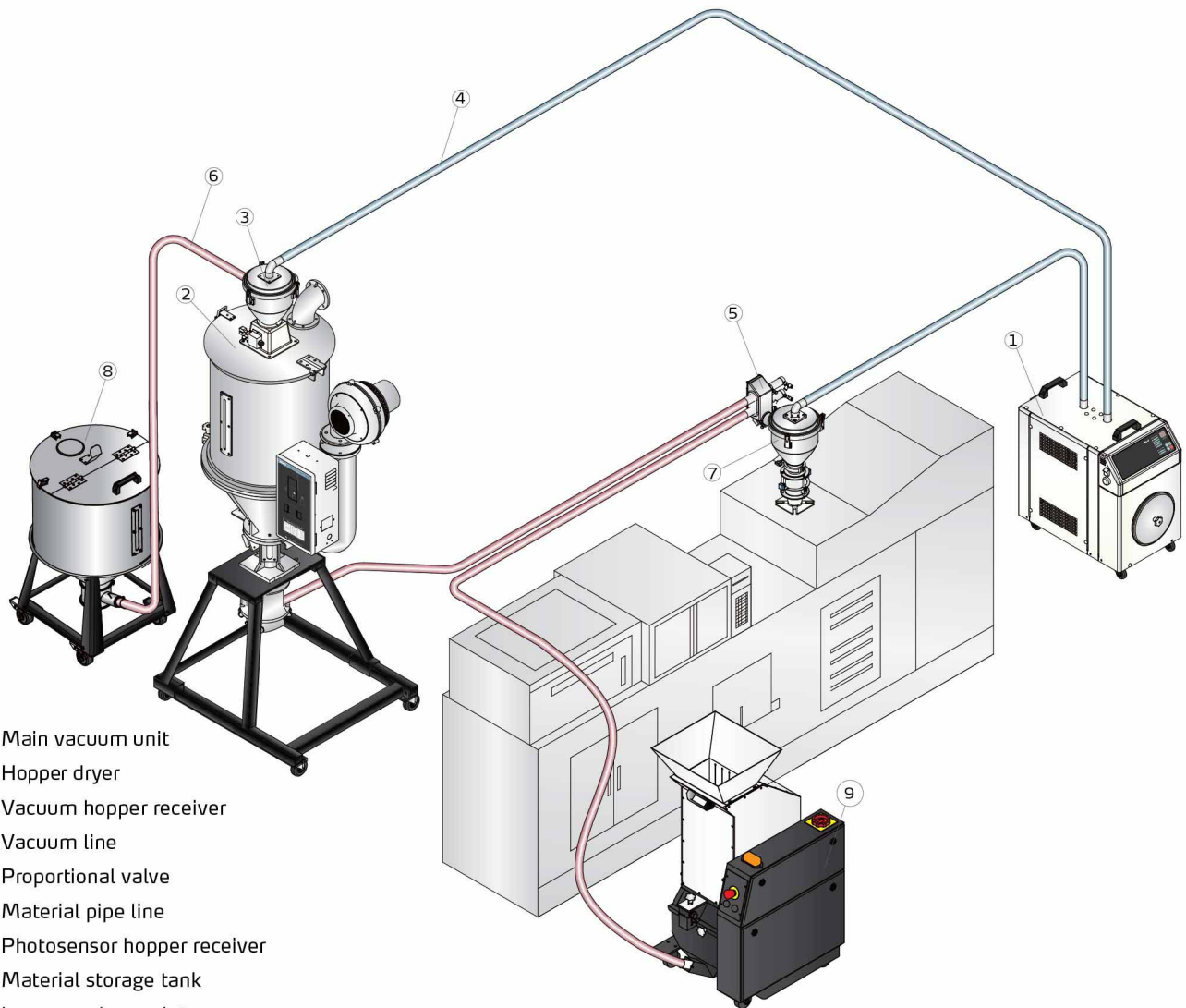
Application 1

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

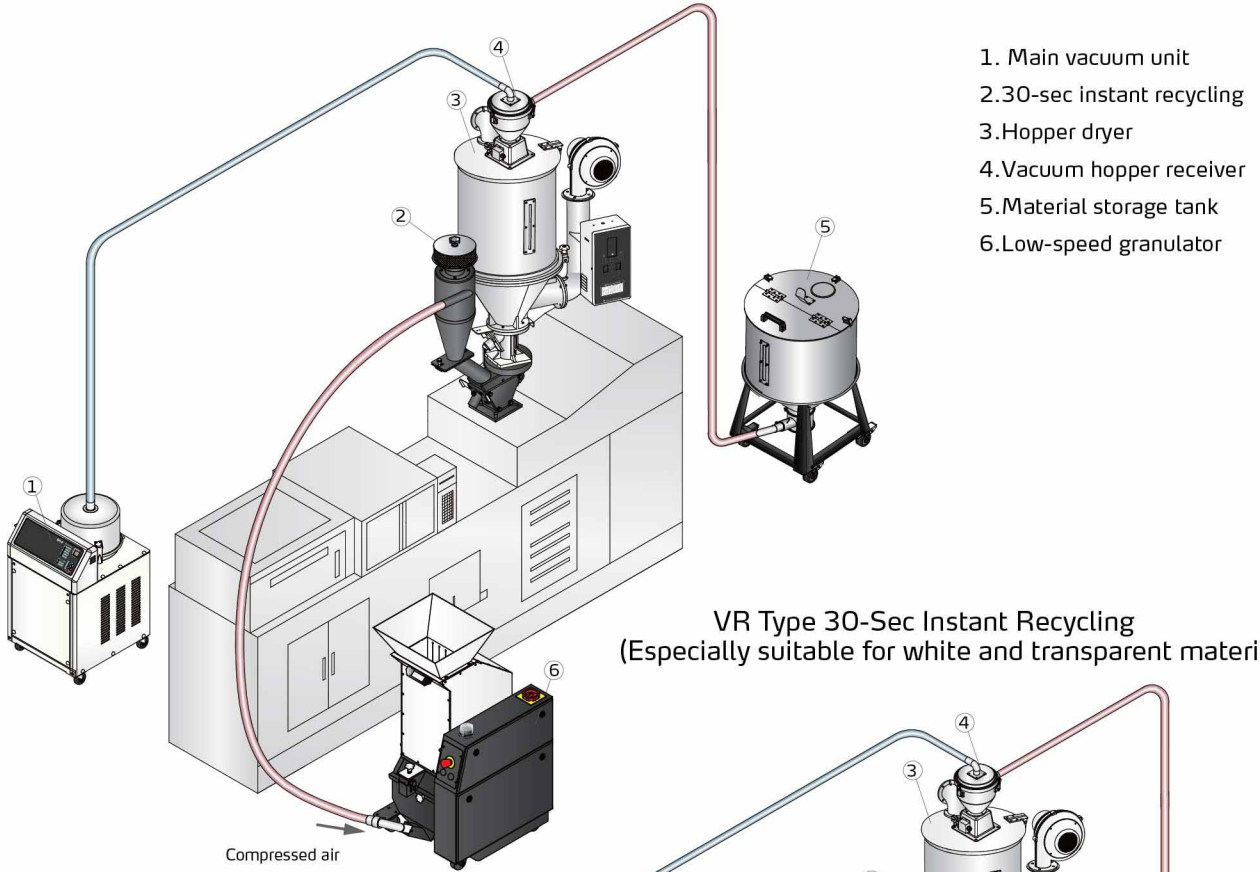


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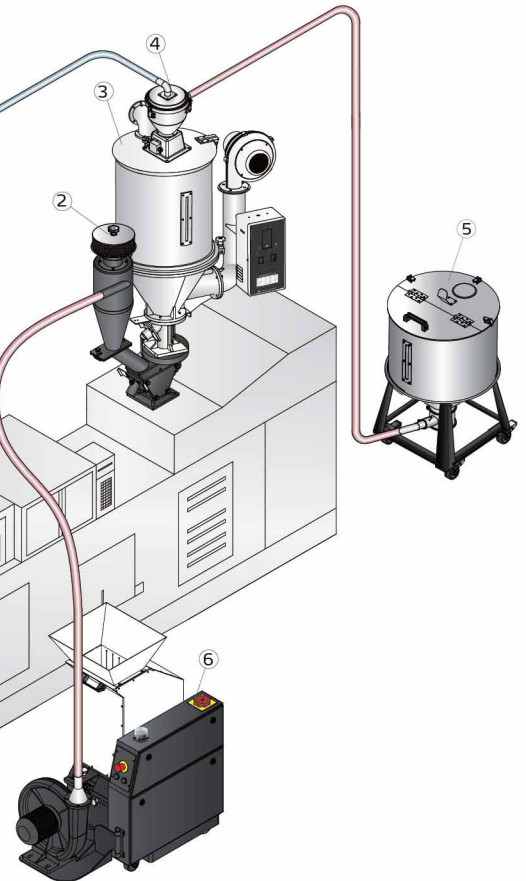
Application 3

Options

30-Sec Instant Recycling System (Patented product)



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 it is 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)

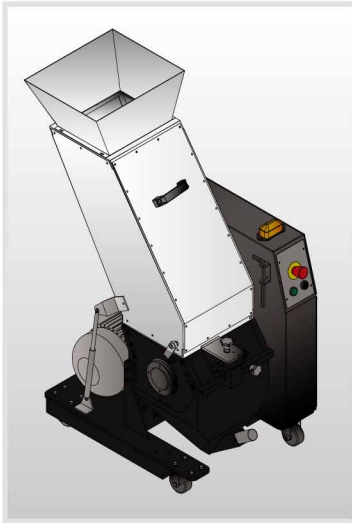
This device utilizes loading blower to convey regrind into the cyclone dust collector to separate the regrind from the air and then the regrind will fall into storage hopper or cloth bag. Applicable to SG-16N/20N series.



Dust Separators (DS Type)

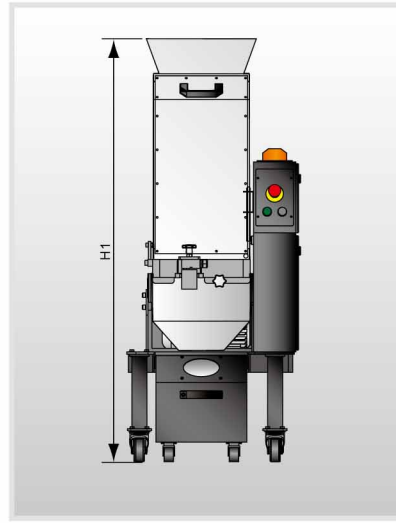
Dust Separator (DS type) can enhance dust separation with regrind for immediate use. The dust will be kept in filter bag, thus working environment will be maintained clean. This device ensures full use of regrind to avoid material wasting and enhance the economy returns. Applicable to SG-16N/20N series.

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).

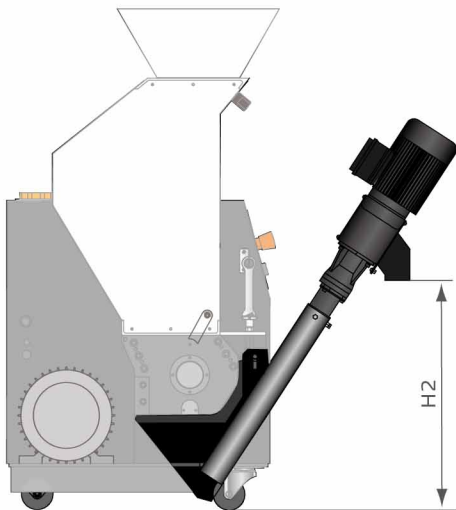
Height-increasing storage bin



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.

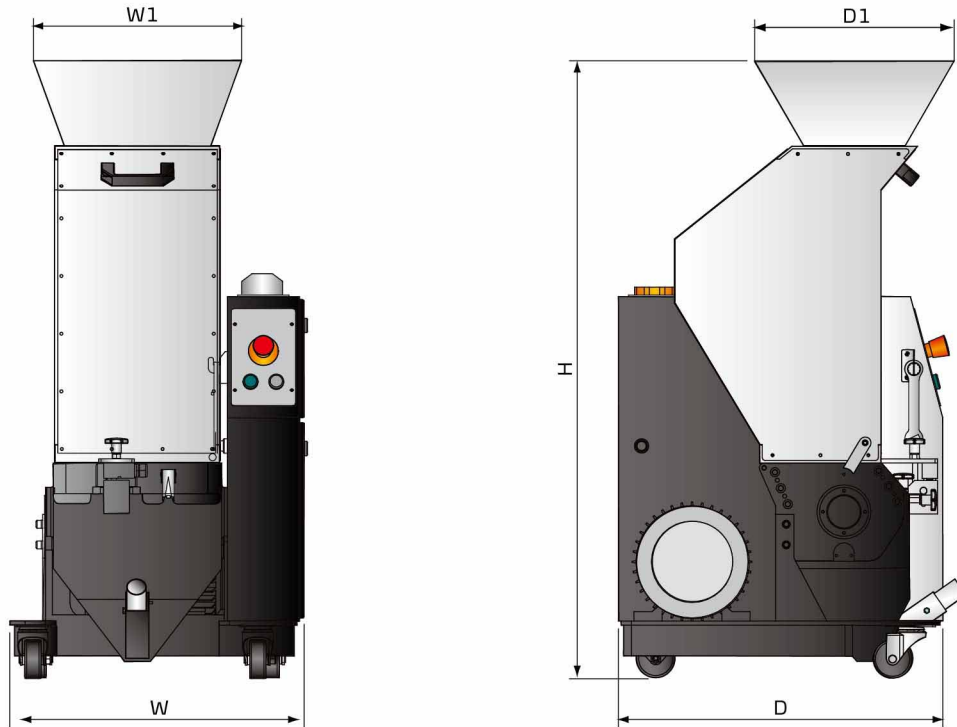
Slant hole screen



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.

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