

High Volume, Soundproof Central Granulator

Provides quality regrind without adversely affecting production rates, part quality, or the plant environment.

Comet's CG-50 series heavy-duty, soundproof central granulators are designed for recycling waste or rejected parts from injection molding, blow molding or extrusion machines. This series features a larger motor, up to 35" (900mm) feed opening, and throughputs up to 3,968 lbs/hr (1800 kg/hr). A gradually inclined cutting and integrated power design offers a better cutting effect and lower noise levels. The CG-50 is easy to maintain, clean, has a compact footprint, and multiple safety features.

Standard Features

- High-tech, rotating V-shape cutting blades send material to the center of the cutting chamber to prevent material from adhering to the sidewalls.
- Solid structure with airtight double-soundproof layers to keep noise levels minimal.
- High-quality, durable steel blades stay rigid and are reusable after sharpening.
- Rotating blades inside the clamps are equipped with a blade sharpening jig with adjustable, preset cutting technology on the outside of unit.
- The heavy-duty cutting chamber is constructed using contamination free material ensuring extreme durability, a long service life, and minimal maintenance and repair.
- Soundproof feed chute is equipped with a safety material curtain to eliminate flyback during granulation and also reduce noise levels during operation.
- Self-lock electric rod opens the feed chute ensuring safe operation.
- Cooling pipe at rear of cutting chamber prevents material from melting.
- V-type transmission belt connects the transmission spindle and pulley helping to maintain smooth operation, close contact, and simple disassembly and repair.
- Depending on your requirements, an adjustable cyclone dust separator is available with a floor stand.
- Extra fixed knives and balance are available to granulate thick or heavy material to increase granulating capacity.



CG-5090

V-Shape Cutting Chamber



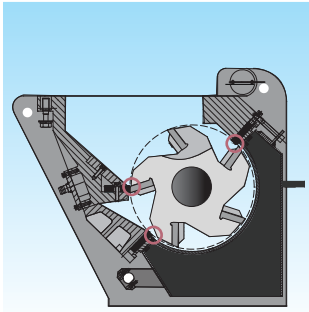
Material goes to the center of the rotating cutters enabling efficient cutting while minimizing dust and fines.



Preset Knife Jig
Enables rotating blade adjustment outside the machine.

CG-50 Series

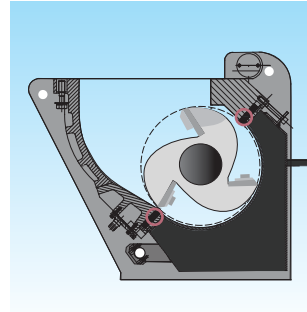
Optional Accessories



High Cut-Point

The high cut-point fixed blade model has a smaller inlet space to adjust the forcefulness at the cutting point. This is an ideal solution for granulating large, solid material and thick walled plastic and sheet. A third row of fixed blades, with the

same design parameter, is added to the standard two row configuration to increase granulating capacity and cut material more efficiently.



Low Cut-Point

The low cut-point fixed blade model has a bigger inlet space and initially low cutting point. Material can be easily grabbed and cut thus making this rotor/housing

combination ideal for the granulating hollow objects and frame material.

Separate Conveying Blower

The blower is situated outside the machine without restricting the inner space of the machine. You can choose different types of blowers.

Feeding Hopper for Conveyor

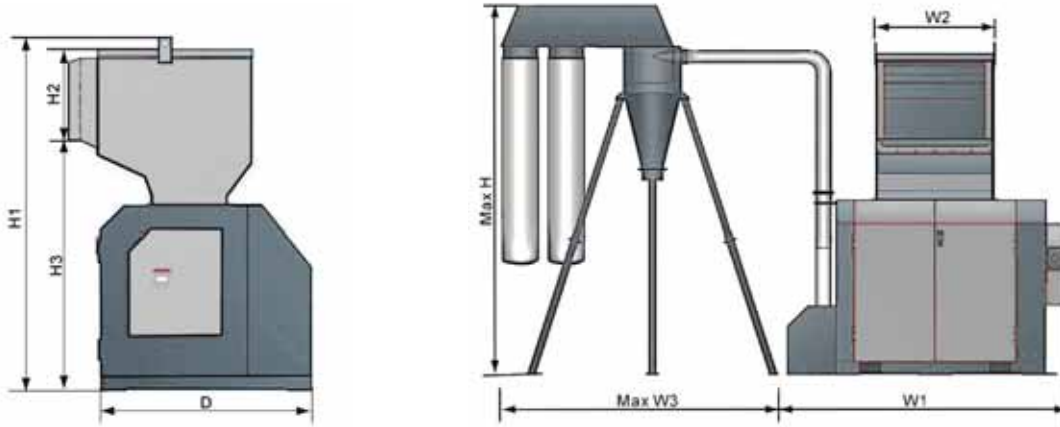
A material feeder for large granulators is usually conveyed from below or a platform must be built for feeding material. Comet has a specially designed conveyor belt to easily move the material into the cutting chamber of CG-50 series.

Material Side Feed Chute

The design of the feeding hopper of traditional granulators is not suitable for longer pipes and profiles. Comet has designed a material side feed chute for convenient feeding of longer scrap materials.

- Cyclone dust separator to separate the finished granulate.
- The floor height of its stand can be adjusted to meet different requirements.
- For granulating thick-walled or heavy material, extra fixed knives are available to increase the granulating capacity.
- CG-50 fiber reinforced model for fiber reinforced material.





CG-50 Specifications

Model	CG-5060	CG-5090
Motor Power (kW, 50/60 Hz)	37 / 41.5	45 / 51
Conveying Blower (kW, 50/60 Hz)	3.0 / 3.6	4.0 / 4.8
Rotor Speed (RPM 50/60 Hz)	525 / 630	525 / 630
Handspike Motor Power (kW, 50/60 Hz)	.25 / 0.3	4.0 / 4.8
Blade Material	SKD11	SKD11
Number of Fixed Blades	2 (3)	2 (3)
Number of Rotating Blades	3 (5)	3 (5)
Cutting Chamber (mm)	500 x 600	500 x 900
Max. Throughput (kg/hr)	1000	1800
Cooling Device	✓	✓
Noise Level dB(A)	110 ~ 115	110 ~ 115
Regrind Conveying System	✓	✓
Dia. of Screen Hole (φ12 mm)	✓	✓
Dia. of Screen Hole (φ8, (φ10, (φ17,(φ25 mm)	○	○
Flywheel	✓	✓
Presetting Knife Jig	✓	✓
Full Receiver Alarm Device	○	○
Optional Conveying Blower Power (kW)	○ (1.5)	○ (2.2)
Dust Separator (DS-50)	○	○
Magnetically Charged Hood	○	○
Feed Hopper with Port	○	○
Dimensions		
H (mm)	3153	3153
H1 (mm)	2850	2850
H2 (mm)	675	675
H3 (mm)	2115	2115
W1 (mm)	2300	2600
W2 (mm)	730	1030
W3 (mm)	2120	2120
D (mm)	1725	1725
D1 (mm)	5500	5450
Weight (kg)	3600 (3625)	3960 (3985)

We reserve the right to change specifications without prior notice.

- Note:**
1. ✓ = standard, ○ = optional
 2. Stainless steel feed hopper cover plate and storage tank available.
 3. When granulating plastics reinforced with fibers (e.g. CPVC), select granulators with a special quenching process in the cutting chamber and blades.
 4. SKD11 (1.2379/D2 steel): high carbon, high chromium alloy steel with high wear and corrosion resistance.
 5. Max. capacity of machine is subject to diameter of screen size and composition of material.
 6. Noise levels vary with different materials and motor types.
 7. To avoid plastic from sticking to blades, materials should be crushed at normal temperature.
 8. Power supply: 3φ, 230/400/460/575V, 50/60Hz.

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over 40 years.*



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