

## Heavy Duty, Single Pass Granulator

*Designed for efficient size reduction of various materials in a single pass.*

Comet's CG-XSP series heavy duty, high capacity granulators are designed for high throughput size reduction of larger sized products in a single pass. They are also ideal for secondary granulation when positioned behind pre-shredders in various types of recycling systems. A stand-alone control panel uses quality components and PLCs.

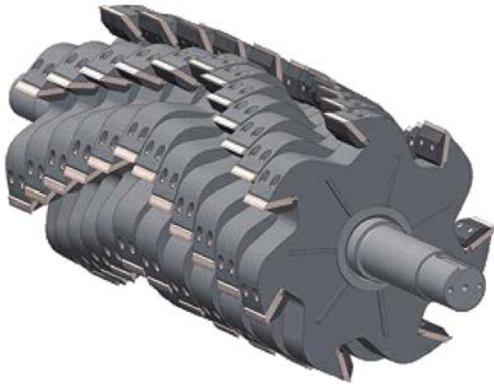
With a variety of rotor configurations, CG-XSP granulators have a wide range of applications including voluminous materials like plastic drums, crates and chairs; flexible materials like film, woven bags and rubber; and dense materials like profiles, thick sheets, as well as other general plastics, wood, paper, aluminum, foam, and mixed household and commercial waste. The CG-XSP series has numerous safety and wear protection features.

### Standard Features

- Strong, welded, heavy gauge steel plate construction with a compact, space saving design.
- The two-piece cutting chamber is divided at an inclined angle so the chamber can be opened quickly by the hydraulic system for easy access and maintenance.
- Oversized, outboard spherical rotor bearings prevent bearing damage due to product migration.
- Rotor and counter knives can be adjusted outside the granulator. A knife setting gauge is standard, plus the distance between the rotor knife edge and the screen can be easily set and adjusted.
- Three rows of counter knives are mounted around the cutting circle. One row can be removed for different material applications.
- Replaceable wear-plates made from specially produced steel are mounted on both sides of the rotor.
- Screw conveyors are installed under the screen for material discharge.
- A rotor lock and rotor speed sensor is installed to ensure safety when doing maintenance.
- Safety proximity switches are located on both the cutting chamber and access doors.



# CG-XSP Series



## V-Rotor

The open design V-Rotor is the standard rotor supplied with the CG-XSP series granulator. It is suitable for most types of material. The double-shear, V configuration of the forward set blades creates a highly efficient double scissor cut encouraging material to the center of the cutting chamber. This results in reduced power consumption, even blade wear, reduced wear on the chamber side walls, and optimum throughput.

## VB-Rotor

The VB-Rotor design is a rear set V-rotor which Comet recommends for certain lighter duty applications. The open design of the rotor allows material to expand and travel within the cutting chamber. This rotor also provides extra cooling through the machine to reduce heat buildup and fine production.

## C-Rotor

The C-Rotor is a heavy-duty, high inertia, semi-closed design intended for use in demanding applications. The numerous, individually replaceable blades are firmly secured by strong precision machined blade supports. This rotor design creates a cascade cutting effect ideal for processing tough materials and is also well suited for profile granulation.

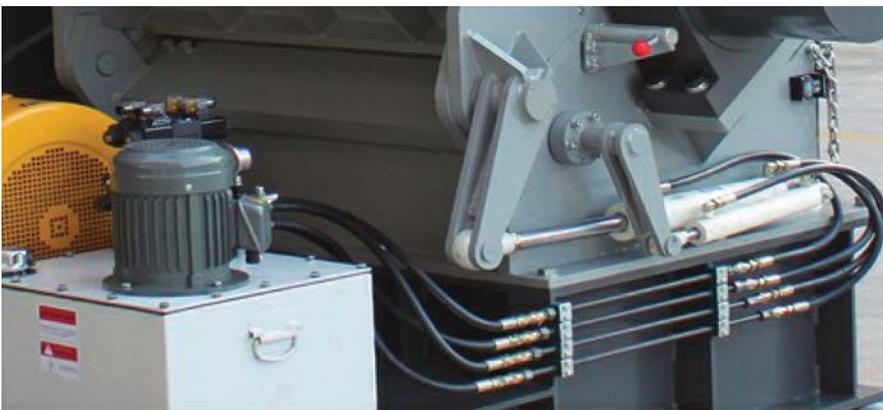
## Configurable Rotor Blade Rows

The CG-XSP series granulators are available with large diameter rotors with a choice of 5, 7, or 9 rows of rotor blades to suit your specific application. They can achieve the ideal combination of power and cutting efficiency, thus ensuring high throughput volumes and top quality granulated products.



### **Heavy Duty Bearings**

The rotor is mounted on a high quality, oversized spherical bearing cutting chamber outboard to avoid product and liquid from migrating through the shaft seals into the bearing cavity thus preventing bearing failure due to material contamination in the lubricant.



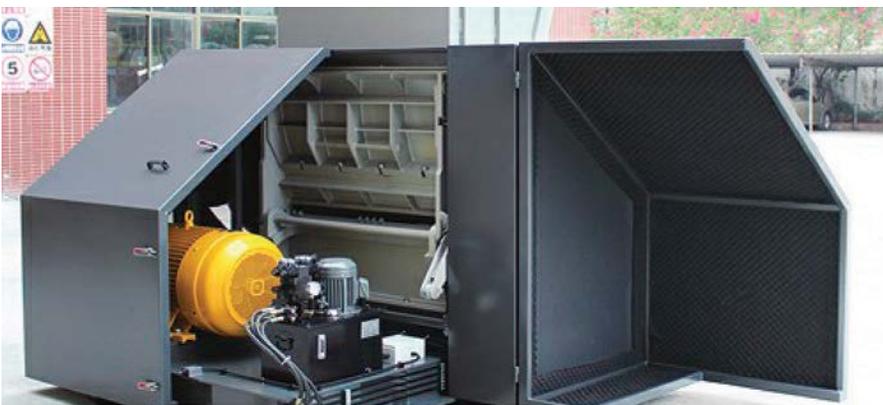
### **Hydraulic Opening Device**

CG-XSP granulators are equipped with dual hydraulic circuits and lift cylinders to enable easy access to both the upper cutting chamber and lower screen support cradle. This enables the granulator to open quickly with minimal effort for maintenance and inspection.



### **Auxiliary Flywheel**

An optional auxiliary flywheel is available to enhance the rotor's cutting force and improve efficiency. It is mounted on the non-drive side of the main rotor shaft. The increased inertia reduces the possibility of the rotor slowing down under heavy loads and reduces motor and drive belt stress.



### **Sound Proof Enclosure**

An optional sound proof enclosure is available to minimize noise. The motor and hydraulic power unit are mounted within the enclosure of the granulator to keep the footprint compact. Installation of the enclosure is also available for existing operations with minimal disruption.

## Options Available



**Infed Conveyor Belt with Metal Detector**



**Personnel Platform with Side Loading Hopper**



**Sound Proof Enclosure**

## Specifications

Model	CG-XSP800	CG-XSP1200	CG-XSP1200T	CG-XSP1600T
Dimensions L / W / H (in)	86 x 71 x 122	86 x 86 x 122	99 x 89 x 131	99 x 105 x 131
Hopper Opening (in)	29.5 x 31.75	45.25 x 31.75	49.25 x 40.25	61 x 40.25
Chamber Opening (in)	20.5 x 31.5	20.5 x 47.25	26 x 47.25	26 x 63
Rotor Length (in)	31.50	47.25	47.25	63.00
Rotor Diameter (in)	20.50	20.50	26.00	26.00
Rotation Speed (RPM)	520	520	520	520
Std. Screen (in)	Ø0.5	Ø0.5	Ø0.5	Ø0.5
Rotor Knives (pcs)	3 x 2	3 x 2	3 x 2	3 x 2
Counter Knives (pcs)	3 x 1	3 x 2	3 x 2	3 x 2
Drive Motor (hp)	100	120	175	215
Power Pack (hp)	2	2	3	3
Weight (Approx. lbs)	8800	11350	16300	22000

Model	CG-XSP1200G	CG-XSP1600G	CG-XSP2000G
Dimensions L / W / H (in)	104 x 98 x 154	104 x 113 x 154	103 x 129 x 154
Hopper Opening (in)	46 x 43.25	61.75 x 43.25	77.5 x 43.25
Chamber Opening (in)	31.5 x 47.25	31.5 x 63	31.5 x 78.75
Rotor Length (in)	47.25	63.00	78.75
Rotor Diameter (in)	31.50	31.50	31.50
Rotation Speed (RPM)	480	480	480
Std. Screen (in)	Ø0.5	Ø0.5	Ø0.5
Rotor Knives (pcs)	3 x 2	3 x 2	3 x 2
Counter Knives (pcs)	3 x 2	3 x 2	3 x 4
Drive Motor (hp)	215	335	425
Power Pack (hp)	3	3	3
Weight (Approx. lbs)	20900	27550	35200

*We reserve the right to change specifications without prior notice.*