

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 speed granulators are designed for high throughput size reduction of larger sized products in a single pass. They are ideal for processing various materials including glass-filled plastics, rubber, copper cable, etc. They can also be used for secondary granulation when positioned behind pre-shredders for recycling systems. CG-XSP granulators can be supplied with 3, 5, 7 or 9 rows of rotor blades depending on the model. The blades are manufactured from high quality, precision ground, heat treated steel to ensure an extended service life and optimum cutting performance. The CG-XSP series offers multiple safety features and wear protection.

Features

- Welded construction from heavy gauge steel plate.
- Inclined cutting chamber offers lower noise levels.
- Bearings and bearing housings are located outside the cutting chamber to prevent dirt, dust, or grease from entering the cutting chamber.
- Compact design minimizes factory space requirements.
- Precision machined rotors (forward set V-Rotor, standard).
- Oversized, outboard spherical rotor bearings prevent bearing damage due to product migration.
- Replaceable blade cover plates so no threads on the main rotor shaft that can be damaged or become worn.
- Clearance between the rotor blades and screen is maintained at all times.
- Blade setting off the machine reduces maintenance downtime.
- Manual, electric and hydraulic chamber opening mechanisms to quickly access the cutting chamber for maintenance and cleaning.
- Rotor locking device ensures safety during maintenance.
- Stand alone electrical control panel using Siemens' PLCs.
- Safety proximity switches on cutting chamber and access doors.



CG-XSP1600T



CG-XSP2000G

Standard, Open V-Rotor:

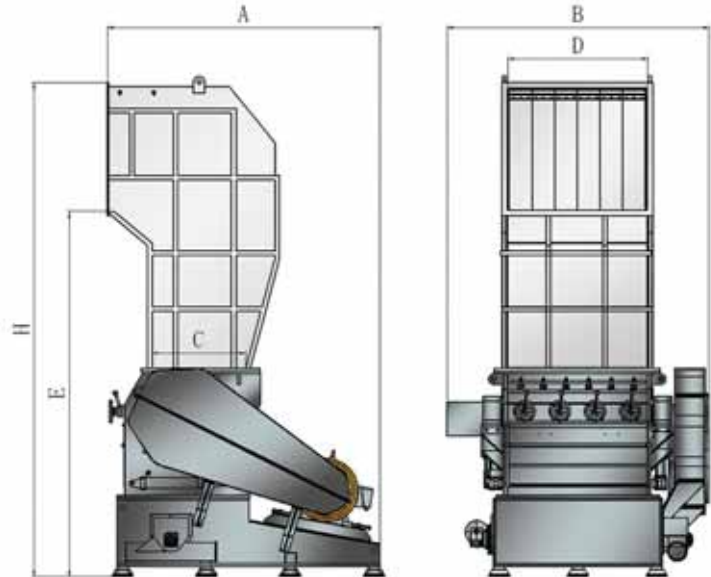


The double-shear “V” configuration of the forward set blades creates a highly efficient double-scissor cut, and sends material to the center of the cutting chamber to prevent material from adhering to the sidewalls. This reduces power consumption, blade wear, reduced wear on the chamber sidewalls, and optimum throughput. The open design of the rotor lets material expand and move around and allows good airflow through the machine to minimize heat build up and production of fines. Granulators can be supplied with 3, 5, 7 or 9 rows of rotor blades depending on the model. A rear set V-rotor design (known as the VS-Rotor) is also available for certain, lighter duty applications. The V-rotor is suitable for most types of material.

Semi-Closed, C-Rotor:



A heavy duty, high inertia design intended for demanding applications. The larger quantity of individual blades are held by strong supporting segments and can be replaced piece by piece if required. This design creates a cascade cutting effect which is well suited for processing hard or thick materials and is also a popular choice when granulating profiles. The C-rotor is available with 3, 5 or 7 staggered rows of blades depending on the model.



Specifications

Model	CG-XSP 800	CG-XSP 1000	CG-XSP 1200	CG-XSP 1000T	CG-XSP 1200T	CG-XSP 1600T	CG-XSP1200G	CG-XSP1600G	CG-XSP2000G
A (mm)	2,120	2,120	2120	2,410	2410	2,410	2,750	2,750	2,7500
B (mm)	1,900	2,010	2,320	2,100	2,320	2,720	2,670	3,070	3,470
C (mm)	520	520	520	660	660	660	800	800	825
D (mm)	800	1,000	1,200	1,000	1,200	1,600	1,200	1,600	2,000
E (mm)	2,700	2,700	2,700	3,120	3,120	3,120	3,530	3,530	3,530
H (mm)	3,700	3,700	3,700	4,250	4,250	4,250	4,630	4,630	4,630
Hopper Opening (mm)	800 x 1000	1000 x 1000	1200 x 1000	1000 x 1130	1200 x 1130	1600 x 1130	1200 x 1100	1600 x 1100	2000 x 1100
Rotor Dia. (mm)	520	520	520	660	660	660	800	800	800
Rotation Speed (RPM)	520	520	520	520	520	520	520	520	520
Rotor Operation Length (mm)	800	1,000	1,200	1,000	1,200	1,600	1,200	1,600	2,000
Standard Screen (mm)	Ø12			Ø12			Ø12		
No. of Rotor Blades (rows x pcs)	5 x 2	5 x 2	5 x 2	5 x 2	5 x 2	5 x 4	7 x 2	7 x 4	7 x 4
No. of Counter Knives (rows x pcs)	2 x 1	2 x 1	2 x 2	2 x 1	2 x 2	2 x 2	2 x 2	2 x 2	2 x 2
Power (Approx HP)	55	75	75	90	110	132	132	200	250
Power Range kW (Approx HP)	55 ~ 75	55 ~ 90	55 ~ 90	75 ~ 110	90 ~ 132	110 ~ 160	110 ~ 160	160 ~ 250	250 ~ 315
Weight (Approx. kg)	4,000	4,800	5,500	5,800	7,400	10,000	9,500	12,500	16,000

We reserve the right to change specifications without prior notice.

