



Technical Specification

1400 Series Granulators



Tel (262) 641-8600 • Fax (262) 641-8653 • www.cumberland-plastics.com • Bulletin: CG6-510.1 • Effective: June 14, 2010 • Supersedes: CG6-510

1400 Series Granulators

Application:

The 1400 Series Granulators are designed for reclaiming thermoformed, extruded scrap, sheet, web and edge trim, and central reclamation. They are ideal for high capacity on-line reclamation of sheet, filament, and foam (with simultaneous manual or automatic feeding where required). The 1400 Series Granulators can handle sheet up to 1/2" (12.7mm) thick, flat sheet, roll sheet from an unwind stand, thermoformed sheet, amorphous film, fibers, foils packaging materials, and wide pieces of tough plastic with heavy cross sections.

Features:

Model	Throat Size	Cutting Circle Diameter	Throughput	Approximate Weight
14x56	14" x 56" (356 x 1422 mm)	14" (360 mm)	2200 lbs./hr. (1000 kg.)	11,500 lbs. (5227 kg.)
14x62	14" x 62" (356 x 1568 mm)	14" (360 mm)	3000 lbs./hr. (1363 kg.)	17,000 lbs. (7727 kg.)

Benefits:

- Rotor is open (wing) type design manufactured in high alloy steel.
- The inside of the cutting chamber is machined to an exceptionally high finish. No unfinished welds.
- Removal of front panel gives quick access to cutting chamber and swing-down screen cradle for ease of service and cleanout.
- The rotor knives are bolted to the rotor with high strength alloy steel bolts.
- Double sealed, outboard mounted, heavy-duty spherical bearings prevent bearing contamination.
- 3 Chevron-positioned rotor knives scissor cut against the bed knives to provide optimum cutting efficiency, with low power consumption.
- The heavy-duty construction allows these granulators to attain noise reduction of 85 dBA or less for most applications.
- Open-wing rotor produces high quality granulate.
- Rugged, bolted, and doweled main frame construction. Larger, heavy-duty spherical roller bearings and flywheels.
- Reinforced, heavy-duty screen cradle.
- Pivoting hopper facilitates cleanout and/or maintenance.
- Optimum cutting efficiency with Twinshear knife configuration.

Specifications:

	Standard	Standard Options
Infeed	Tray/Sheet feed	Dual feed hopper, Pneumatic lift assembly, Feed rolls, Paddle rolls
Cutting Chamber	2-Bed knife, Twinshear	
Rotor	3-knife Twinshear	
Rotor Knives	HCHC, 55°, Chevron	HCHC w/TCSC
Bed Knives	HCHC, 2-edge	HCHC w/TCSC
Screen	3/8" dia., swing down	3/16" to 3" diameter, Heat treated, perforated, stainless steel
Base	Low profile Airveyor	Drum/Gaylord, angular, leg type
Discharge	8" Airveyor chute (14x56) 10" Airveyor chute (14x62)	10" Airveyor chute (14x56) 8" Airveyor chute (14x62)
Motor	50 HP, 1200 rpm, TEFC, 3/60/230/460	40 HP – 100 HP, REFC, Special voltage (e.g. 208, 380, 415, 575), Magnetic disc brake
Drive Parts	V-belt	To suit motor, Customer supplied
Electrical Components	NEMA 12 with safety interlocks	
Controls	Customer supplied	230 or 460 volt, NEMA 12, Special voltage, energy saver, reduced voltage starter
Labels	Safety labels—English	French/Spanish
Accessories		Blower, Separator, Common Stand, Soundproofed (80 dBA), integral blower



Cumberland 1400 Series Granulators

