



Technical Specification

1400 Series Granulators



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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 13 mm 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	356 x 1422 mm	360 mm	999 kg/hr	5215 kg
14x62	356 x 1568 mm		1362 kg/hr	7710 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	10 mm dia., swing down	5 to 76 mm dia., Heat treated, perforated, stainless steel
Base	Low profile Airveyor	Drum/Gaylord, angular, leg type
Discharge	203 mm Airveyor chute (14x56) 254 mm Airveyor chute (14x62)	254 mm Airveyor chute (14x56) 203 Airveyor chute (14x62)
Motor	37 kW, 1200 rpm, TEFC, 50Hz 240/400v	30 kW – 75 kW, REFC, Special voltage (e.g. 208, 380, 415, 575), Magnetic disc brake
Drive Parts	V-belt	To suit motor, Customer supplied
Electrical Components	Start/Stop buttons and safety interlocks	
Controls	Customer supplied	240 or 400 volt, IP-55, Special voltage, energy saver, reduced voltage starter
Labels	Safety labels—English	French/Spanish
Accessories		Blower, Separator, Common Stand, Soundproofed (80 dBA), integral blower

— See Page 2 For 1400 Series Drawings —



Cumberland 1400 Series Granulators

Model 1456:

