# Less Floor-Space; Quiet Design, Great Versatility

Conair's Viper Granulator 8-Series tangential granulators have footprint dimensions at least 30% smaller than many other granulators with similar capabilities. The hardened, tangential cutting chamber is ideal for handling lightweight bulky parts such as bottles, as well as runners, film, edge trim and parts.

Different hopper designs are available to maximize performance with a wide variety of scrap types. Fully soundproofed base and hopper makes the 8-Series quieter than other small granulators. A tilt-back hopper and drop-down screen cradle provide easy access to the cutting chamber for maintenance and cleaning. These features contribute to increased productivity and reduced downtime.

Model 817

## Easy Maintenance; Excellent Productivity

The 8-Series granulator has many features that contribute to increased throughput, fewer fines, and reduced noise levels. The tangential chamber design along with the 3-blade open rotor ensure that the rotor grips bulky scrap on the downward stroke, drawing it into the knives and preventing it from bouncing on the rotor. The increased screen area allows for higher throughput levels with less fines while decreasing energy consumption.

Pre-adjustable knives provide the ability to replace knives easily and in half the time it would take to make adjustments on the floor. Not only is this quicker but also safer and with less chance for error.

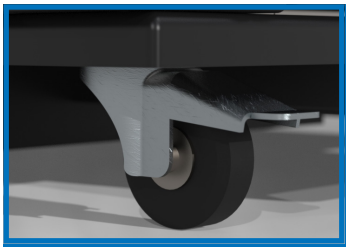
- **Quiet operation**
  8-Series granulators include soundproofed hoppers and base enclosures as standard creating the quietest granulator in its class.
- **Hardened cutting chamber**
  The hardened cutting chamber provides greater resistance to wear.
- **High-Quality regrind**
  The scissor-cutting configuration, larger screen area, and pre-adjustable rotating and fixed knives provide consistent knife gaps to produce high quality regrind.
- **Greater screen area equals higher throughput with fewer fines**
  Increased rotor and screen contact area reduces heat generation and minimizes fines for best-in-class throughput of higher quality regrind.
- **Safe, tool-less, full-front access**
  Hinged components and a drop-down screen cradle provide easy access to the cutting chamber and screen area for adjustment and quick cleaning. Integral safety interlocks prevent accidental operation during service or clean out.
- **Pre-Adjustable knives**
  Provides the ultimate in blade changes. Knives are pre-set in the included knife setting fixture decreasing the time it takes to replace knives while improving safety.
- **Reduced energy costs**
  The solid flywheel-type rotor pulley adds inertia to the rotor, high efficiency TEFC motors and larger screen surface area further reduce energy consumption.

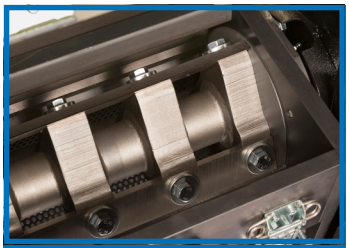
# Features

Rugged design, fully soundproofed hopper and base, uniform regrind with less fines, simple maintenance — the 8-Series has become the most reliable solution for in-line size reduction.

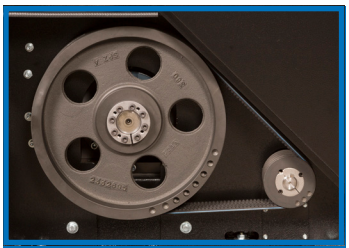
- Rotor equipped with rotating end disks
- Roller bearings mount integral with cutting chamber
- Hardened cutting chamber
- Flywheel-type rotor pulley mounted with taper-lock bushing
- Scissor-cutting configuration
- Open area screen equal to approximately 50% of the rotor diameter
- Easy tool-free access for simple and quick cleaning and maintenance
- Locking, swivel casters
- Integrated electrical control panel
- Discharge for vacuum loading

Integrated electrical control panel

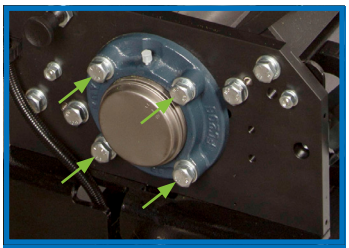

Locking, swivel casters

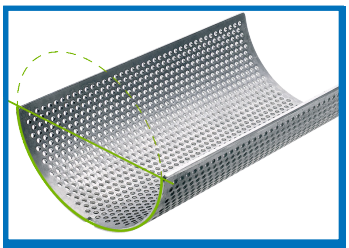

Welded steel rotor with rotating end disks


Easy tool-free access


Flywheel-type rotor pulley with taper-lock bushing


Scissor-cutting configuration

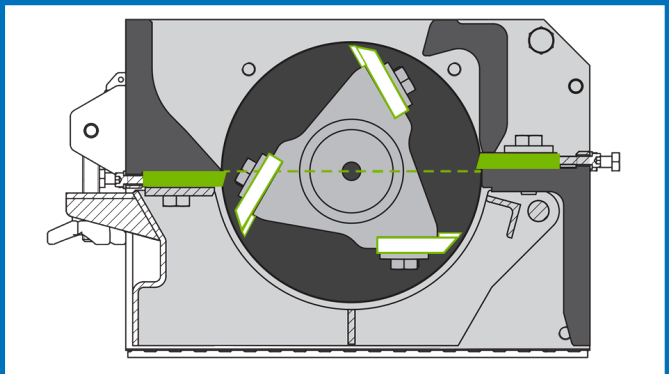

Roller bearings mounted on cutting chamber


Screen equal to 50% of the rotor diameter

# Options

| Model | 813 | 817 |
|---|---|---|
| **Options** | | |
| High-wear knives and screens | O | O |
| Feed tray | O | O |
| Feed roll package | N/A | O |
| Hopper for pipes and sheets | O | O |
| High-amp control with alarm | O | O |
| High-level control with alarm | O | O |
| Anti-longs screen | O | O |
| Manual discharge bin | O | O |
| Discharge for blower | O | O |
| Discharge with auger screw | O | O |
| Blower evacuation systems | O | O |
| Compressed air evacuation (CAML) system | O | O |
| Feed conveyor with metal detection | O | O |

## 8-Series Cutting Chamber Configuration



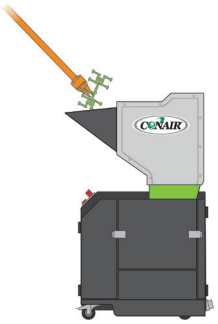
**Tangential Chamber** with 3-blade open rotor

8-Series granulators are designed for the granulation of all plastic materials. Designed for efficient granulation of scrap from injection molding, blow molding, and extrusion processes.

# System Configurations

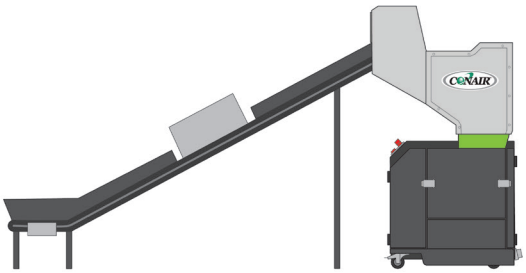
## Hand Feeding

Standard feeding method. Flyback is minimized by rugged curtains. Feed tray is oriented upward to allow easy feeding, while minimizing overfeeding that could create sluggish performance.



## Robot Feeding

The 8-Series upturned feed tray provides an ample target for robotic delivery of scrap.

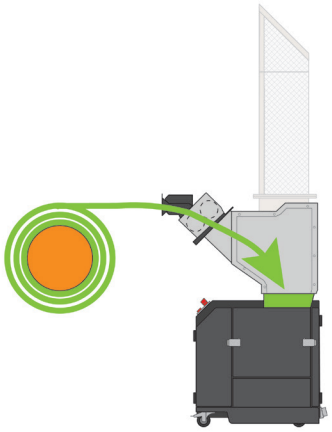


## Conveyor Feeding

Optimized, meter feeding of scrap by a speed-controlled conveyor. Conveyor speed can be linked to granulator drive motor amps. Conveyor can include a metal detector that stops conveying when metal in the scrap is detected.

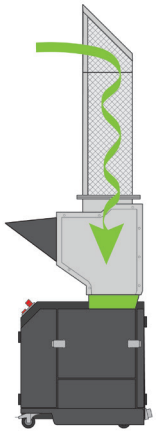
## Roll Feeding

For film scrap on rolls (IE: film extrusion start-up scrap), feeding is automatically controlled by speed-controlled pinch rollers slaved to the amperage of the granulator drive and/ or the closed-loop film reclaim system. A relief head to receive blown-in edge trim can be included.



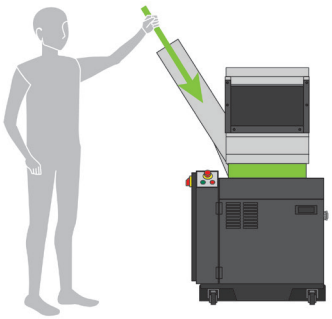
## Relief Head Feeding

Thin strips of film edge trim and other film products are transferred to the granulator by a blower system and the conveying air is exhausted by the screen shell of the relief head.



## Cyclone Feeding

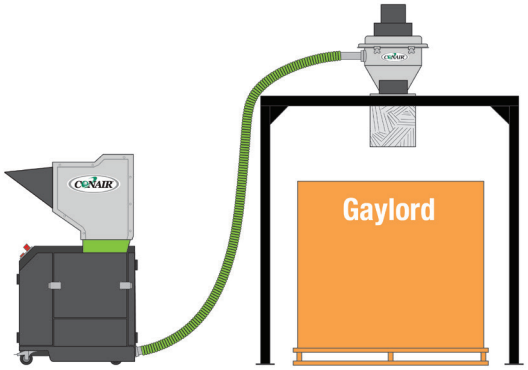
For near continuous feeding of tabs and tails, small scrap/parts fed from a blower.



## Side Feeding

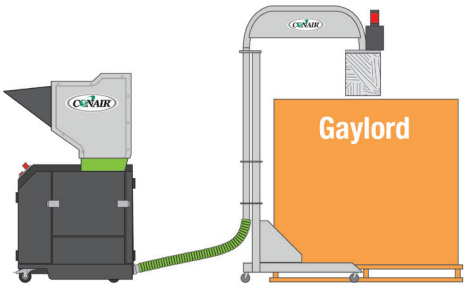
Commonly required for long extruded parts and scrap. Preliminary cutting, folding or breaking of scrap is not required, since feed chute delivers scrap directly to rotor knives.

# Feeding/Evacuation Configurations



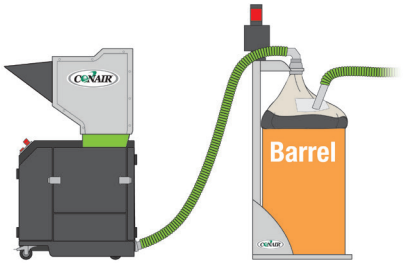

## Vacuum Take-Off Evacuation

A vacuum pick-up tube is used to pull granulate from the granulator drawer. Multiple types of loaders/receivers can be used, programmed to convey by a sensor in the granulator drawer or special loading control settings.



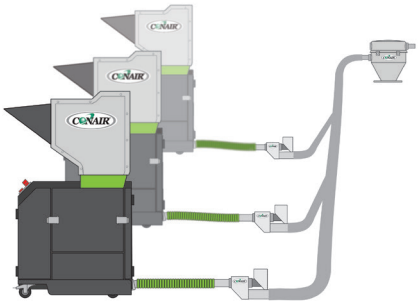

## Compressed Air to EVG Evacuation

A pick-up tube with a venturi is used to pull granulate from the granulator drawer and push it to a gaylord. The Conair CAML-EVG system can be set to unload the granulator on a timed basis or continuously.




## Compressed Air to EVB Evacuation

A pick-up tube with a venturi is used to pull granulate from the granulator drawer and push it to a barrel. The Conair CAML-EVB system can be set to unload the granulator on a timed basis or continuously.

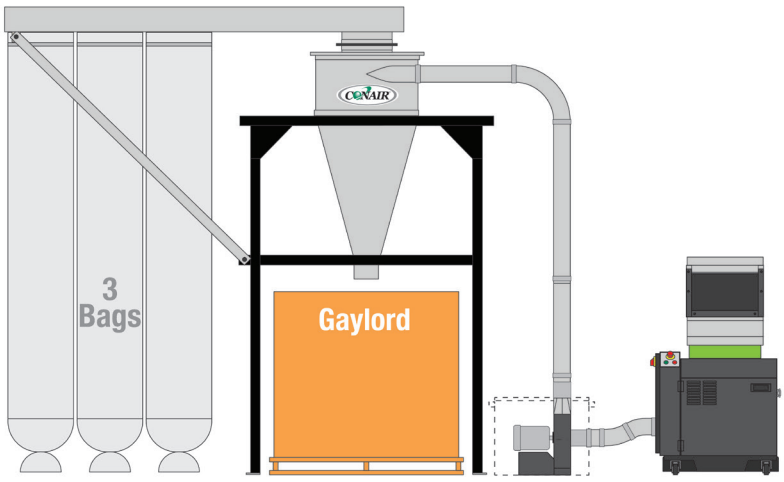


## Vacuum System Evacuation

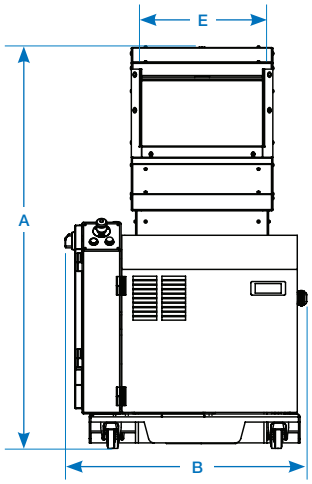
Multiple granulators can be emptied by a central vacuum system to a common collection bin or box. Each granulator is equipped with a vacuum pick-up tube and a material line valve, sequenced by the central loading control
(e.g. Conair FLX-128).

## SRB-1 Cyclone Evacuation

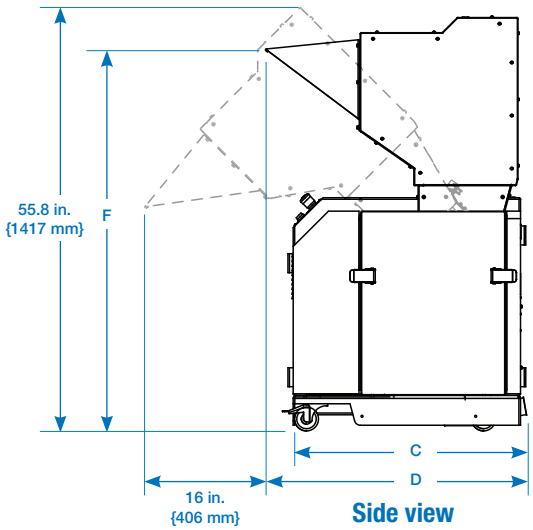
Fully optimized evacuation by a blower and cyclone system assures the granulator never overfills, while granulate is cooled by the blower's air flow.



# Specifications Granulator with feed hopper




Front view




Side view

**Application Note**

Allow appropriate clearance above machine for hopper tilting during maintenance.

| Models | 813 | 817 |
|---|---|---|
| **Performance characteristics** | | |
| Throughput range * lbs/hr {kg/hr} | up to 190 {86} | up to 275 {125} |
| Rotor diameter inches {mm} | 7 {180} | |
| Rotor speed rpm | 280 | |
| Rotor type | 3-blade welded open | |
| Rotating knives x fixed knives | 3 x 2 | |
| Standard screen hole size inches {mm} | 3/16 {5} | |
| Cutter house configuration | Tangential | |
| Cutting chamber inches {mm} | 7.8 x 12.6 {200 x 320} | 7.8 x 16.5 {200 x 420} |
| Motor power Hp {kW} | 5 {4} standard ; 7.5 {5.5} optional | 5 {4} standard ; 7.5 {5.5}, 10 {7.5} optional |
| **Dimensions** inches {mm} | | |
| A - Overall height | 54.8 {1391} | |
| B - Width | 26.8 {680} | 30.7 {780} |
| C - Depth | 29.9 {760} | |
| D - Overall depth | 34.3 {869} | |
| E - Feed hopper opening width | 12.2 {310} | 16.1 {410} |
| F - Height to hopper infeed | 50.4 {1280} | |
| **Approximate weight** † lb {kg} | | |
| Installed | 705 {320} | 836 {380} |
| Shipping | 900 {408} | 1075 {488} |
| **Voltages** Full load amps based on motor size ‡ | | |
| | **5 Hp** | |
| 230/3 phase/60 Hz | 13.0 | |
| 460/3 phase/60 Hz (standard) | 6.5 | |
| 575/3 phase/60 Hz | 5.2 | |

## Specification Notes

* Throughputs are provided as a capacity guideline only. Throughput will be greater or lesser than the values shown according to the selected screen size and the shape, size, thickness and properties of the material to be cut.

† Weight is estimated and will vary based on configuration

‡ FLA data for reference purposes only. Does not include any accessories added such as blower or conveyor motor loads. Includes main 5 Hp motor only. For true, full FLA for power circuit design of specific machine refer to electrical diagram of the machine order or nameplate applied to machine at shipment. Other voltages available.

Consult Conair for a material test to help in determining the correct granulator model for your application.

Specifications may change without notice. Consult with a Conair representative for the most current information.

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