

COMBI SHREDDER

Inline Shredder/Granulator System



Rugged Versatility

Operator-Friendly

Innovative

Space-optimizing designs
for a wide range of plastics
and post-consumer resin
reclamation applications

Combi. The space saving workhorse for your operation.

Who says you need to waste space in your waste processing operation? Integrating a shredder with a granulator gives you more room on your production floor to keep your operation moving forward.



Inspection Door with Micro Switch
Permits inspection and access to the shredder chamber to view cutter conditions and performance as well as material ingestion.



Ferrite Magnetic Bar Tray
Removes metal from the material stream prior to granulation, leading to longer overall machine life.



Sound Dampening Shredder Hopper
Sound limiting features built into the hopper and the shredder suppress harmonic noise and material-originated sound.



Sensor Array
A wide array of sensors is employed to monitor proper machine function and immediately detect issues and upset conditions during operation.



Remote Control and Diagnostics
Network connectivity provides remote access to machine performance indicators and critical operating parameters.



Built-in Camera
Camera mounted inside shredder infeed section allows for visual inspection during operation to monitor and improve performance.

Increased Productivity by Combining Shredder and Granulator Chambers.

The Combi Shredder integrates leading shredder and granulator technologies into a single compact package.

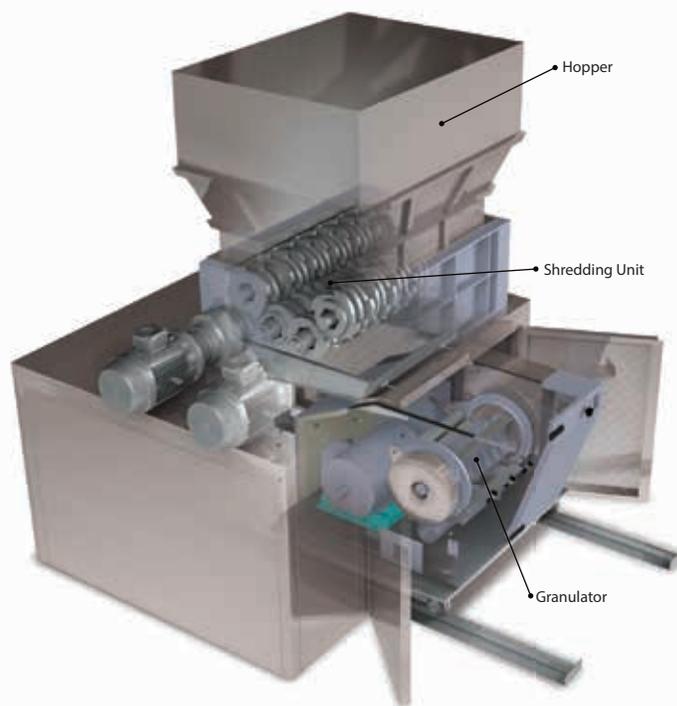
Innovative control systems provide users with all of the information needed to ensure a reliable size reduction operation.

The rugged design of the equipment makes the Combi the perfect choice for some of the most demanding size reduction applications.

Advanced control mechanisms and interlocks ensure safe and dependable operation even in the most demanding of environments.

The robust design of the Combi meets the ever-changing needs of manufacturing scrap and waste processors worldwide while delivering a positive return on investment.

1. **Rugged Construction:** Built to handle the most demanding size reduction applications, the Combi offers a variety of options to meet your scrap reclamation needs.
2. **Operator-Friendly:** The intuitive controls and safety-enhancing mechanisms built into the Combi were designed with the user in mind, making it easy to program and operate the system.
3. **Innovative Technology:** From remote diagnostics to advanced control features, the Combi is designed to provide many years of dependable operation in the most challenging of environments.



Tech Tip: Set up a regular maintenance interval for the system and monitor machine performance regularly to extend system life.

Applications

This series of shredders can be used in any application that needs predictable shredder and granulation quality. Typical applications include, but are not limited to, the following:

- Injection molding
- Blow molding
- Extrusion
- Thermoforming
- Roto molding
- Recycling
- Post-consumer waste

COMBI SHREDDERS

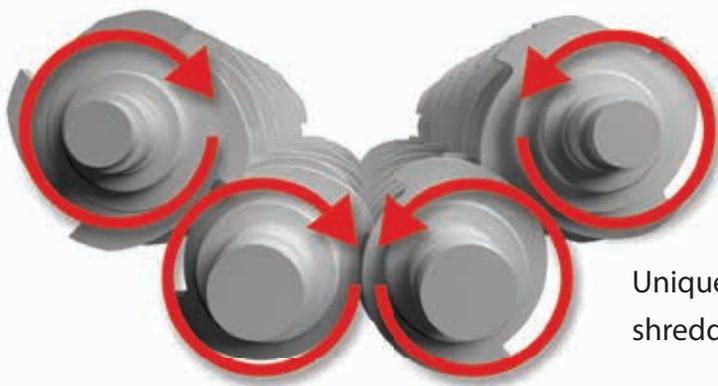
Reliable, Efficient Shredding Capacity.

Combi Shredders have been developed with the future growth of your operation in mind.

The anti-torsion shaft design of the Combi shredder resists stress, leading to longer unit life. Cutter reversal features and other important safety interlocks prevent structural overloading which can lead to machine damage. Blade level sensors in the shredder will automatically shut off the unit if clogged.



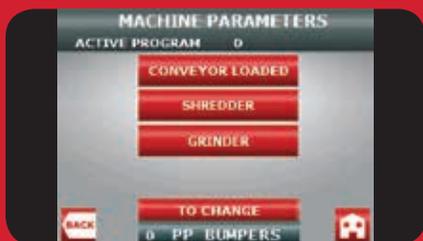
Optional sound-suppressing hopper can provide a significant reduction in operating noise levels.



Unique rotor design recirculates partially shredded material prior to granulation.

The color touch screen provides the operator with all key operating parameters and a full range of diagnostic information. The control station can be placed anywhere near the system for operator convenience.

Intuitive Control System for Ease of Use.



Direct access to programming and operation.



Single button integrated controls for activation of associated loading, conveying, refining, and discharge systems.



Diagnostic monitoring from remote locations over the network.

Maintenance, Made Easy.

Maximum Uptime

The Combi shredder is easy to use and maintain. Shredder disks were designed for quick removal and reinstallation. Additionally, the Combi utilizes keys for disassembly and reassembly of cutters and disks for sharpening.

All serviceable mechanical components are readily accessible, helping to ensure maximum machine uptime. The Combi is designed to keep your operation moving forward.

Cutters and disks are keyed for simplified reassembly.



Tech Tip: Inspect granulator knives for sharpness on a regular interval and replace when dull to minimize fines in your regrind.

Granulator Access and Cleaning.



Step 1: Shut down the unit.



Step 2: Open doors and slide out granulator.



Step 3: Replace knives and perform other maintenance with easy access.

Configured to Meet Your Needs.

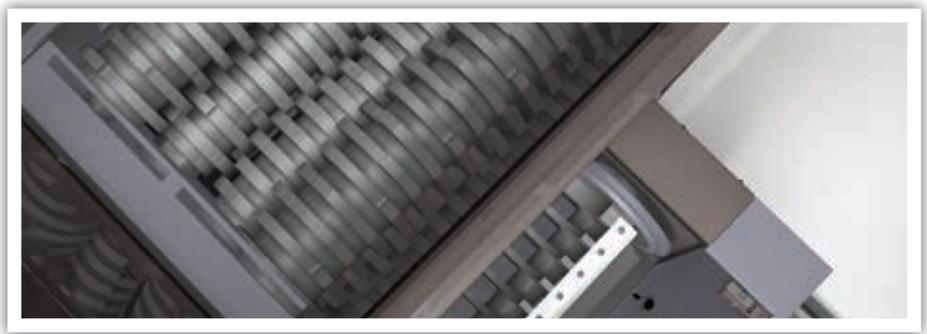
The Combi Shredder is available in three models with a variety of options to meet a wide range of size reduction operations.

From high volume processing to specialized shredding of materials that may include hard plastics and metals, the Combi Shredder is ready for action.

Screen sizes are available from .5" to 1.25" allowing you to size your granulated material accordingly. Screens can be quickly changed between operations to support varying material output needs.



Optional magnetic bar tray assists in removing iron particles prior to material granulation.



Hopper Selection

The material hopper can be configured in a number of ways to meet your unique loading and size reduction needs.

Open and closed hopper designs are available, and optional sound reducing features can be built into hoppers making the Combi Shredder perfect for nearly any application.



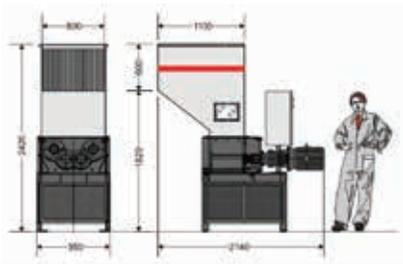
Tech Tip: Clean your granulator screen on a regular basis to maintain high levels of throughput through the Combi system.

Specifications

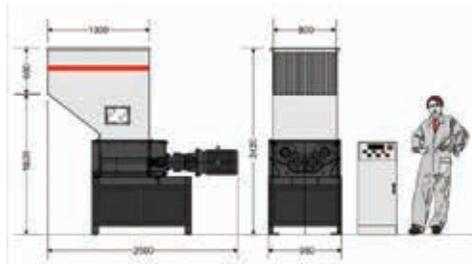
Combi Shredder Models

	Model 40/80S	Model 60/80S	Model 80/80S
Throughput	550 - 882 lbs/hr (250 - 400 kg/hr)	772 - 992 lbs/hr (350-450 kg/hr)	1,102 - 1,543 lbs/hr (500-700 kg/hr)
Shredder Cutting Chamber	15.75" x 31.5" (40 x 80 cm)	23.62" x 31.5" (60 x 80 cm)	31.5" x 31.5" (80x80 cm)
Granulate Size Output	.55" - 1.38" (14mm - 35mm)	.55" - 1.38" (14mm - 35mm)	.55" - 1.38" (14mm - 35mm)
Shredder Characteristics			
Installed Power	20hp (10hp + 10hp) 15 kW (7.5 kW + 7.5 kW)	20hp (10hp + 10hp) 15 kW (7.5 kW + 7.5 kW)	20hp (10hp + 10hp) 15 kW (7.5kW + 7.5 kW) or 29hp (14.5hp + 14.5hp) 22 kW (11kW + 11 kW)
Cutter Shafts	2	2	2
Hardened Cutters	20	30	42
Conveyor Shafts	2	2	2
Conveyor Disks	20	30	42
Average Cutter Revs/Min	18	18	18
Granulator Characteristics			
Granulator Model	1628	1628	1640
Diameter	16.54" (420.1 mm)	16.54" (420.1 mm)	16.54" (420.1 mm)
Rotor	5 knife high shear rotor	5 knife high shear rotor	5 knife high shear rotor
Motor Power	20 HP	20 HP	30 HP
Physical Characteristics			
Weight	4,629 lbs (2100 kg)	8,598 lbs (3900 kg)	17,636 lbs (8000 kg)
Height	952.75" (2420 cm)	952.75" (2420 cm)	952.75" (2420 cm)
Width	374.0" (950 cm)	374.0" (950 cm)	374.0" (950 cm)
Depth	842.5" (2140 cm)	984.25" (2500 cm)	1,437" (2650 cm)

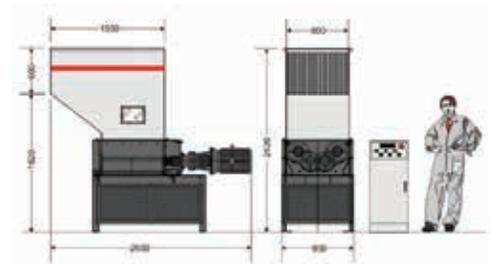
* Shipping weight does not include packaging materials, such as pallets, cardboard, etc.



Model 40/80S



Model 60/80S



Model 80/80S

Get More From Your Production Floor.

Count on Cumberland to deliver a comprehensive line of size reduction systems and associated supporting equipment to help you drive efficiency and performance in your operation. Our technical support team is ready to evaluate your operation and ensure the right solution for all of your size reduction needs.



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