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.

**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
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.

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.

Unique rotor design recirculates partially shredded material prior to granulation.

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.

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.

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.
## Combi Shredder Models

<table>
<thead>
<tr>
<th></th>
<th>Model 40/80S</th>
<th>Model 60/80S</th>
<th>Model 80/80S</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Throughput</strong></td>
<td>550 - 882 lbs/hr (250 - 400 kg/hr)</td>
<td>772 - 992 lbs/hr (350-450 kg/hr)</td>
<td>1,102 - 1,543 lbs/hr (500-700 kg/hr)</td>
</tr>
<tr>
<td><strong>Shredder Cutting Chamber</strong></td>
<td>15.75&quot; x 31.5&quot; (40 x 80 cm)</td>
<td>23.62&quot; x 31.5&quot; (60 x 80 cm)</td>
<td>31.5&quot; x 31.5&quot; (80x80 cm)</td>
</tr>
<tr>
<td><strong>Granulate Size Output</strong></td>
<td>.55&quot; - 1.38&quot; (14mm - 35mm)</td>
<td>.55&quot; - 1.38&quot; (14mm - 35mm)</td>
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### Shredder Characteristics

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<tbody>
<tr>
<td><strong>Installed Power</strong></td>
<td>20hp (10hp + 10hp) 15 kW (7.5 kW + 7.5 kW)</td>
<td>20hp (10hp + 10hp) 15 kW (7.5 kW + 7.5 kW)</td>
<td>20hp (10hp + 10hp) 15 kW (7.5 kW + 7.5 kW) or 29hp (14.5hp + 14.5hp) 22 kW (11kW + 11 kW)</td>
</tr>
<tr>
<td><strong>Cutter Shafts</strong></td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Hardened Cutters</strong></td>
<td>20</td>
<td>30</td>
<td>42</td>
</tr>
<tr>
<td><strong>Conveyor Shafts</strong></td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td><strong>Conveyor Disks</strong></td>
<td>20</td>
<td>30</td>
<td>42</td>
</tr>
<tr>
<td><strong>Average Cutter Revs/Min</strong></td>
<td>18</td>
<td>18</td>
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</table>

### Granulator Characteristics

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<tbody>
<tr>
<td><strong>Granulator Model</strong></td>
<td>1628</td>
<td>1628</td>
<td>1640</td>
</tr>
<tr>
<td><strong>Diameter</strong></td>
<td>16.54&quot; (420.1 mm)</td>
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</tr>
<tr>
<td><strong>Rotor</strong></td>
<td>5 knife high shear rotor</td>
<td>5 knife high shear rotor</td>
<td>5 knife high shear rotor</td>
</tr>
<tr>
<td><strong>Motor Power</strong></td>
<td>20 HP</td>
<td>20 HP</td>
<td>30 HP</td>
</tr>
</tbody>
</table>

### Physical Characteristics

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<tr>
<td><strong>Weight</strong></td>
<td>4,629 lbs (2100 kg)</td>
<td>8,598 lbs (3900 kg)</td>
<td>17,636 lbs (8000 kg)</td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>952.75&quot; (2420 cm)</td>
<td>952.75&quot; (2420 cm)</td>
<td>952.75&quot; (2420 cm)</td>
</tr>
<tr>
<td><strong>Width</strong></td>
<td>374.0&quot; (950 cm)</td>
<td>374.0&quot; (950 cm)</td>
<td>374.0&quot; (950 cm)</td>
</tr>
<tr>
<td><strong>Depth</strong></td>
<td>842.5&quot; (2140 cm)</td>
<td>984.25&quot; (2500 cm)</td>
<td>1,437&quot; (2650 cm)</td>
</tr>
</tbody>
</table>

* Shipping weight does not include packaging materials, such as pallets, cardboard, etc.
Get More From Your Production Floor.

Count on Sterling 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.