



BREAK FREE

TO HIGHER PROFITS
AND MORE FREEDOM



WITH THE **ECOSHRED® COMPACT**, HIGHER PROFITS AND MORE FREEDOM ARE NOW EASILY ATTAINABLE.

Explore the Possibilities. The scrap recycling industry has long allowed entrepreneurs to realize their dreams. As the industry has grown in size and sophistication, however, this has become more difficult. Capital requirements and access to markets can become true blockers to a company's ability to realize its possibilities.

The new EcoShred® COMPACT shredder from SICON offers a new path.

SICON has its roots in the scrap recycling business. Founder Heiner Guschall worked in a family scrap company and learned the business in the yard. This practical experience, coupled with the expertise of 23 professional engineers and project managers, has opened the door to a new concept in automobile and metal scrap shredding. Innovation for better solutions and passion for the scrap industry are the motivation for SICON.

Unlock the Opportunities. Unlike traditional metal shredders that require tremendous investments in buildings, infrastructure and power supply, shredders in the EcoShred® COMPACT series are self-contained. However,

unlike other self-contained shredders that have been offered for scrap processing, this machine is designed and built from the ground up for the specific requirements of the industry.

Shredding scrap is tough work. The torques, forces and demands of production shredding easily can destroy or cause unexpectedly high wear in machinery that is not purpose built. The EcoShred® COMPACT is a heavy-duty shredder that helps processors unlock the opportunities available to their businesses.

Moving the Needle. For processors handling 5,000+ tons per month who are accustomed to selling the material as shredder feedstock to larger processors, the EcoShred® COMPACT offers a new business model. With a modest investment, your business will now have the capacity to upgrade all of that material. The EcoShred® COMPACT can process any kind of scrap, from logs, flattened cars and mixed scrap to nonferrous metals (aluminum). Thus, it is as flexible as machines with 3,000 HP or more.

Once you have shredded and liberated ferrous and nonferrous material, your business can explore export and

▲▼ There are numerous features engineered into the **EcoShred® COMPACT SERIES** that enhance serviceability and make operation simple, even for first-time shredder operators.



domestic markets and truly move the needle to expand market opportunities and your operating margin.

Proven Technology. The EcoShred® COMPACT combines two scrap shredding applications long proven to deliver excellent shredding results. The process begins with a preshredder that conditions material. The preconditioned material then passes into a heavy-duty hammer mill for material liberation and compaction.

The gravity fed preshredder homogenizes the material through the ripping action of a slow moving shaft and a fast moving shaft against a flipper that ensures the discharge of uniformly sized material. This process delivers a consistent and even feedstock to the hammer mill. It also prevents the introduction of unshreddables to the hammer mill, preventing damage to the rotor.

As material exits the preshredder, it falls into the hammer mill chamber. The scrap is drawn into the chamber and shredded through the interaction of the hammers and the anvils, achieving constant full box shredding. Compactor bars on the sidewall increase density. Shredded material then exits through the grate system.

All in One. The EcoShred® COMPACT is truly a self-contained shredder. Each unit has a feeding hopper or optional infeed conveyor, preshredder, hammer mill shredder and all hydraulic and electric controls and drives.

The entire machine is mounted on a frame that is fully enclosed. This innovative design creates a “technical room” under the feed hopper. The room houses space for the hydraulic and electric drives and controls while also creating a workshop.

Routine maintenance is simplified through hydraulically powered shredder housings that open completely for re-lines, hammer replacement and other maintenance. Every part is easily accessible.

Numerous other features are engineered into the EcoShred® COMPACT series that enhance serviceability and make operation simple, even for first-time shredder operators.

EcoShred's® drive system comprises four 250-kw motors that provide harmonized power to the unit. They deliver throughput of 45 metric tons/hour and scrap density of greater than 1.1 t/m³. As well, the drive configuration delivers lower operating costs with parts that are readily

available.

EcoShred's® innovative and fully automated operating mode eliminates the need for a dedicated operator. A crane operator easily controls the EcoShred® with a remote joystick. This eliminates the need for a control tower and delivers operating costs that are significantly lower than any other machine.

A Complete Package, A Bright Future. EcoShred® COMPACT's advanced design and shredding concept is truly a self-contained shredding solution. It requires less power than traditional shredders, reducing power infrastructure requirements. It requires far less civil engineering in the form of foundations and buildings. The combination dramatically reduces overall investment.

The shredding design combines the two proven techniques for efficient, productive metal shredding. The preshredding reduces ongoing power and wear parts consumption, reducing ongoing operating expenses. The design also provides maximum material liberation for further separation while producing a uniquely dense ferrous shred.

SICON can add its unique Ferrous Downstream to the EcoShred® COMPACT. Our optional ScrapTuning® system produces the highest quality ferrous shred with extremely low copper content. Adding our SICON X-RF sorter completely eliminates the need for handpicking. ScrapTuning® is the most advanced and cost-efficient ferrous downstream for the generation of homogenous low copper shred.

To maximize nonferrous recovery from ASR, SICON can integrate our SICON-100® or SICON-120® systems. These achieve total metal recovery as well as the recovery of the nonmetallic residues, such as plastics and fibers.

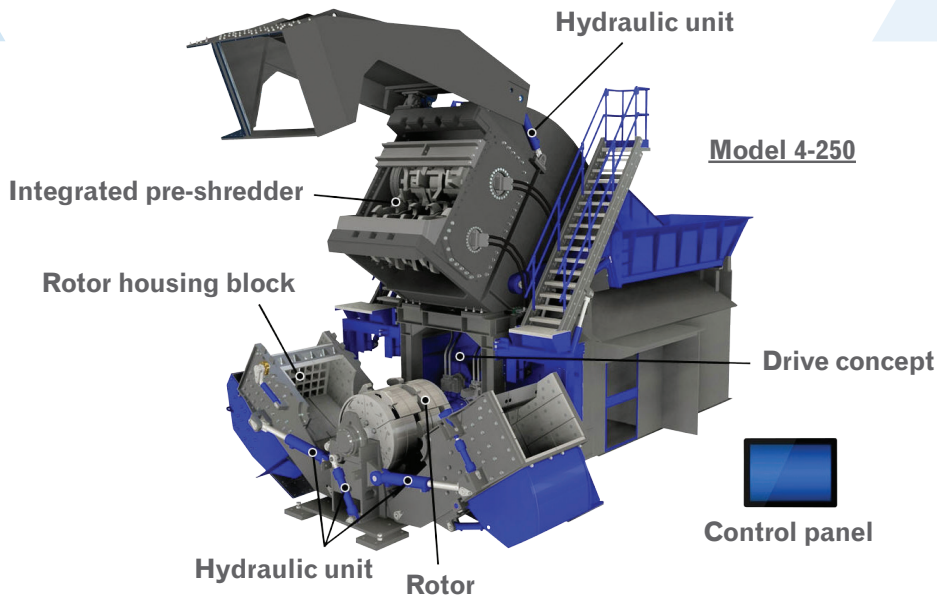
SICON offers the most advanced Nonferrous Downstream systems. Total metal recovery without any reruns and metallurgically clean metal fractions are part of any SICON system. They fit for any shredder size. SICON also retrofits existing downstream systems to make them more efficient.

If you are looking for a way to unlock the potential of your business and brighten its future by unleash all of the possibilities, then look no further: EcoShred® COMPACT is here to help.

Contact the SICON team for complete technical specifications and to explore the possibilities. ▲▼

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PROCESSORS UNLOCK THE OPPORTUNITIES
AVAILABLE TO THEIR BUSINESSES.





ECOSHRED® COMPACT TECHNICAL SPECIFICATIONS

Shredder weight [mt]	150	Flicker effects impacting to network grid	no
Rotor weight [mt]	12.5	Shredder operator	not required
Width of chute [mm]	2000	Operator in exposed and dangerous working position	no
Production at 4x250 kW (1360 HP) [mt/h output]	35-45	Control of the shredder	mobile tablet
Scrap density (t/m3)	>1.1	Civil works for electric building	not required
Disc or spyder rotor	possible	Civil works for foundations	not required
Fully capped rotor	standard	Automation	fully automated
Rotor tilting	included	Hydraulics	integrated in the concept
Main Drive Concept	Low-voltage drive 4 x 250 kw concept	Dedusting volume	low
One rigid base frame	yes		
Pre-Shredder integrated	yes		

Exemplary specification for the EcoShred® Compact 4-250



SICON America LP | 11390 Old Roswell Road | Suite 126 | Alpharetta, GA 30009
 Telephone: 678.527.1432 | Cell: 404.645.2763 | Fax: 678.527.1410 | Email: e.bueller@sicon-america.com