

CARPET RECYCLING AND SIZE REDUCTION SOLUTIONS

ENGINEERED SYSTEMS FOR PROCESSING POST-CONSUMER CARPET

Quality Since 1928



SCHUTTE
HAMMERMILL

www.hammermills.com | info@hammermills.com | 1-800-447-4634

Leading Solutions for Size Reduction

Schutte Hammermill delivers proven size reduction and material separation solutions that enable carpet recyclers to meet evolving regulations, recover valuable materials, and reduce landfill disposal.



MATERIALS PROCESSED

Face Fibers

- Nylon 6
- Nylon 6,6
- Polyester (PET)
- Olefin
(Polypropylene)

Backing Systems

- Calcium carbonate-filled latex
- Multi-layer composite backings
- Thermoplastic backing materials

REMOVING CALCIUM CARBONATE BACKING

Many carpet backing systems contain high levels of calcium carbonate filler, which contaminates fiber streams and limits reuse.

Schutte Hammermill equipment:

- Breaks down backing systems effectively
- Liberates mineral filler from polymer fibers
- Produces material suitable for air classification and separation

This process improves fiber purity and increases the value of recovered materials.

THE CHALLENGE

Post-consumer carpet is one of the most difficult materials to recycle. Made from tightly bonded layers of fibers, adhesives, and mineral-filled backing, carpet waste is bulky, inconsistent, and costly to handle.

At the same time, new state-level regulations and recycled-content requirements are driving increased demand for effective carpet recycling solutions.

THE SOLUTION: SIZE REDUCTION

Size reduction is the critical first step in carpet recycling. Properly engineered hammer mill systems allow recyclers to:

- Break down bulky carpet rolls, tiles, and slabs
- Liberate polymer fibers from calcium carbonate backing
- Reduce material volume for efficient handling and transport
- Prepare material for downstream separation and reuse

Schutte Hammermill systems are designed specifically to process tough composite materials like post-consumer carpet.

SCHUTTE HAMMERMILL EQUIPMENT OPTIONS



15 SERIES LIBERATOR HAMMER MILL

- Fixed rotor design for aggressive processing
- Ideal for tough, composite materials
- Processes pre-shredded carpet for the ultimate clean fiber recovery.



WA SERIES HAMMER MILLS

- Fixed hammer rotor configuration
- Produces consistent particle size
- Prepares material for separation and reuse

Experience and Expertise

Schutte Hammermill has been at the forefront of size reduction technology for nearly 100 years. Our extensive knowledge and innovative solutions have made us a trusted partner. Contact us today to learn more about our size reduction solutions and how we can help you achieve your carpet recycling goals.

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61 Depot Street | Buffalo, NY 14206