SWEEED®
Machinery | Innovation | Solutions

Made in the USA
MADE AND SUPPORTED IN THE UNITED STATES

MEET THE S2000 & S2000+ RECYCLING SYSTEMS

SOLUTIONS FOR COPPER & ALUMINUM RECOVERY

DELIVERING IMPRESSIVE RECYCLING RESULTS IN COMPACT PACKAGES

SWEED recycling systems are built to last, engineered to fit the customer's application, and made and supported in the USA.

THE POWER OF SWEED'S CHOPPING LINES

WHERE VERSATILITY MEETS INNOVATION

In the world of nonferrous wire and cable processing, SWEED continues to carve a niche by seamlessly blending standard and unique applications with high-performance and superior recovery as well as continuing to push boundaries and introducing cutting-edge products and innovations to the industry.

Beyond the chopping line

SWEED's wire chopping lines are meticulously designed for maximum recovery of copper and aluminum from sorted or mixed insulated wire (ICW/IAW), ACR, ACSS, Reda cable and much more. Its exclusive line of linear scrap choppers, paired with a roster of single-shaft shredders and a comprehensive offering of downstream processors, makes SWEED a versatile and unique equipment provider.

SWEED's recent body of work in bulk processing includes installations for a diverse mix of materials. In less than a year, it has implemented systems for recovering low-grade copper and aluminum from e-scrap, extracting copper from telecommunication cables, the customary blend of low- and high-grade ICW and a two-system setup for mixed low-grade ICW and birch/cliff. These intelligently designed systems optimize recovery while minimizing operator requirements, aligning with SWEED's goal of achieving the lowest operating cost per pound.

Testing lab

Recognizing the importance of making informed decisions, SWEED provides a wire chopping test system at its headquarters in Gold Hill, Oregon. Running samples through this system provides critical insights into system requirements and design, assisting customers in making the correct capital investment decisions.

SWEED Machinery is committed to an ongoing journey of innovation to ensure maximum recovery, the lowest operating costs and system longevity. Contact SWEED today and embark on a sustainable future where copper and aluminum recovery reach new heights.

SWEED DIFFERENCE

- Unsurpassed engineering support
- One year limited warranty on all new equipment
- Quality craftsmanship
- Custom options to suit application & production needs
- Designed for easy access for maintenance
- Designed to provide years of reliable service
- Custom footprints, design layouts and controls
- Made and supported in the USA

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THE S2000 & S2000+

RECYCLING SYSTEMS

Up to 2,000 LBS Per Hour

Discover SWEED's S2000, a top-tier solution for copper recovery within nonferrous scrap metal recycling. This chopping line processes #1 ICW, up to 2,000 pounds per hour, all within an efficient compact footprint. The S2000 not only ensures high copper recovery rates, but also sets the standard for sustainability and efficiency in the scrap metal recycling industry.

The S2000+ is specifically crafted to handle a variety of challenging scrap materials. Tailored for low-yield wire and cable, notorious for their fine and hard-to-process nature, the S2000+ comes equipped with a turbo mill, revolutionizing the processing of #2 wire and ensuring exceptional copper recovery rates.

But the versatility of the S2000+ goes beyond that—it can efficiently process various materials, from different wire and cable types to ASR, wire harnesses, and more. With dual dedicated air tables, it can simultaneously process copper and aluminum materials, elevating your efficiency and scrap metal processing capabilities to unprecedented levels. When it comes to handling tricky scrap materials while optimizing copper recovery, the S2000+ sets a new industry standard.

OPTIONAL SYSTEM COMPONENTS & FEATURES

SWEED Scrap Chopper Model 5703 XHD for Linear Applications
Advanced Magnetic and Stainless Steel Separation
Screening and Sifting Options
Metering Feeders
Custom Infeeds
Zig Zag Separators
Able To Accommodate Multiple Voltage Requirements
Electrical Panels Designed For Future Expansion
Remote Access For Controls And Programming
Upgraded Dust Control Options

THE S2000
PRODUCT SPECIFICATIONS

STANDARD SYSTEM COMPONENTS
PCR1048 Prechopper
Conveyor W/ Magnetic Ferrous Separation
SG1826 Granulator
3G Airtable Density Separation
Indoor 3.8K CFM Dust Collector
UL 508A Control Cabinet With Siemens Or Allen Brandley PLC & HMI

THE 2000+
PRODUCT SPECIFICATIONS

STANDARD SYSTEM COMPONENTS
PCR1048 Prechopper
Conveyor W/ Magnetic Ferrous Separation
SG1826 Granulator
TM1815 Turbo Mill with Bypass
(2) 3G Airtables in Series Density Separators
Single Deck Sifter And Auger For Plastic Output
Outdoor 8K CFM Dust Collector

SWEED S2000 & S2000+ RECYCLING SYSTEMS

UP TO 2,000 LBS PER HOUR

S2000 Designed for #1 Copper Recovery
S2000+ Designed for #1 & #2 Copper and Aluminum Recovery

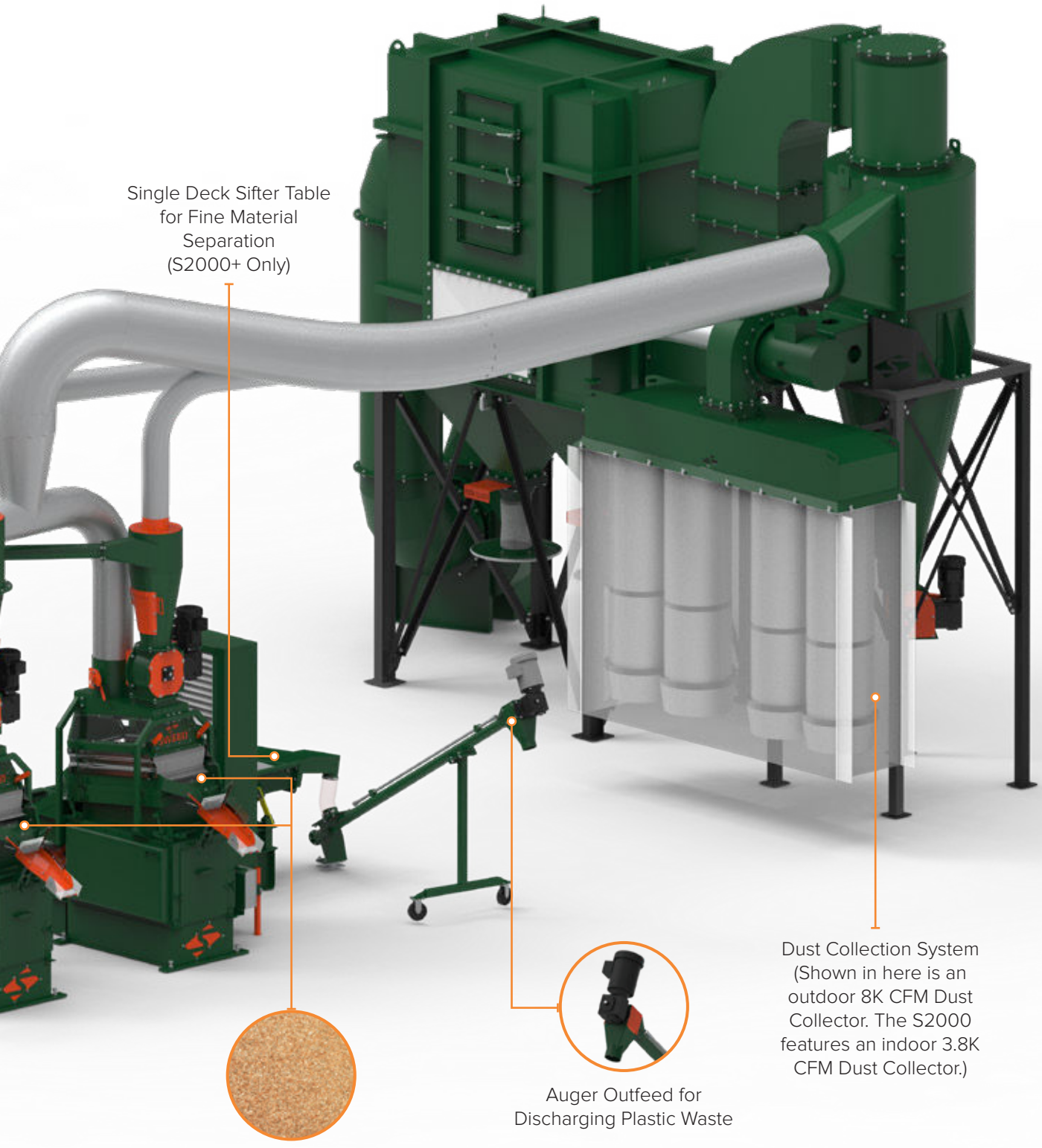
SWEED 50 HP Prechopper Model PCR1048 with Hydraulic Ram Assist

Inclined Conveyor with Overhead Magnetic Cross-Belt for Ferrous Removal

SWEED 40HP 3-Lobe Granulator Model SG1826

SWEED 40 HP Turbo-Mill Model TM1815 with Optional Bypass to Accommodate Both Low and High Yield Wire (The S2000+ only)

User Friendly HMI Touchscreen for Full Visibilityof the System's Functionality and Operations



Single Deck Sifter Table for Fine Material Separation (S2000+ Only)

SWEED 3G Density Separation Tables, 1 & 2 Table Designs Available (S2000+ Only. The S2000 features one table.)

Auger Outfeed for Discharging Plastic Waste

Dust Collection System (Shown in here is an outdoor 8K CFM Dust Collector. The S2000 features an indoor 3.8K CFM Dust Collector.)

Actual system configuration is determined by the type of material to be processed and processing goals.

SOLUTION FOR RECOVERING COPPER FROM LOW-YIELD WIRE

As Seen In Wire and Cable Technology International Magazine

SWEED Machinery, Inc., Gold Hill, OR, USA is in the business of finding innovative solutions for its customers' needs. Melissa Tally, SWEED's Marketing Manager, reports, "When we began seeing an increase in low-yield copper recovery inquiries two years ago, we decided to design and manufacturer our version of a machine that could address the gap our customers were experiencing. In true SWEED fashion, this design allows for more adjustment of the process, while being a much sturdier piece of equipment."

"Our Turbo Mill effectively and efficiently processes #2 copper wire and other fine wire, making it easier to separate," says Chris Salyer, SWEED Engineering Director. "Before it hit the market, the primary source for customers in the USA for a turbo mill was via international manufacturers. We saw an opportunity to offer our world-class engineering, service/technical support."

SWEED Turbo Mill Model TM1815

How the New Technology Works

To separate the copper from the plastic surrounding it, the Turbo Mill beats the material around, tumbling it over and over to pulverize any remaining insulation. This friction rips the plastic away from the copper wire, which is balled into tiny pellet-like pieces. In this shape, the balled copper "flows" freely like fine sand, allowing it to separate easily from the plastic; straight fine wire will nest and entrap plastic making it difficult to separate effectively. The Turbo Mill provides many distinct benefits in the copper liberation process.

"Because it makes the balled copper easier to separate from the plastic, the Turbo Mill increases copper recovery," Salyer says. "Recovered copper also has an increased purity because the process that removes it from the plastic ensures that the two materials are completely separated. Best of all, it increases your processing capability. Without a Turbo Mill, in SWEED's entry level chopping line someone might use an 1/8" screen, which allows for 1500 to 2000 lb of processing per hour. With a Turbo Mill, you can use a larger 3/16" or 1/4" screen, which more than doubles your throughput and lets you process 4000 to 5000 lb of material every hour."

That increase is also reflected in the user's bottom line. With a higher quantity of purer copper, more scrap can be reused or sold at a higher value.

Easy System Integration

The Turbo Mill, like every SWEED machine, is built with usability as a priority. With a line that ranges from 40 to 150 HP, SWEED's Turbo Mill can easily integrate into any existing system.

"We care a lot about providing high-quality service, which is why we will come out and help customers set up their new machines," Salyer says.

That ease of use also extends beyond installation - once the Turbo Mill is integrated into the system, it stays simple to run and maintain.

"It usually feeds right from the granulator, and only needs standard maintenance every million pounds or so," says Salyer. "Once it's up, it just runs itself. It just goes."

With many benefits and easy installation / maintenance, SWEED's Turbo Mill is a must-have for any company that processes #2 wire. It's a small unit with a big impact.

Granulated mixed low yield ICW prior to running through turbo mill.

The end product from mixed low yield ICW after running through SWEED Turbo Mill.

A Screenless Processor That Liberates Fine Copper Wire From the Plastic

ORDERING INFO

GET STARTED WITH SWEED

SWEED is dedicated to providing expert sales and support before and after your purchase. SWEED's sales and engineering are available to assist with machine quotes and general information regarding SWEED's product line.

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Visit us online to learn more about how SWEED can benefit your company
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