



# YOUR FIRST CHOICE FOR RECYCLING



**ANDRITZ**

# ANDRITZ: Your strong partner in recycling

ANDRITZ Recycling is a strong part of the ANDRITZ Group dedicated to converting waste streams into valuable resources. It boasts 160+ years of industrial and engineering experience, in-depth process knowledge, a well-established global sales and sales partner network, financial strength, passionate people, and a wide range of recycling solutions.

The ANDRITZ Group has about 30,000 employees and over 280 production sites, service centers, and sales companies around the world. ANDRITZ has core competencies in environmental processes and energy generation. Certain segments of our business, such as reject treatment and solid/liquid separation technologies, were involved in recycling long before it became a global social focus.

**STATE-OF-THE-ART MANUFACTURING CENTERS**  
ANDRITZ Recycling offers a global service and sales network with access to state-of-the-art manufacturing centers. The synergy between recycling products and other equipment in our product portfolio allows these systems to be integrated into more complex plant configurations.

## ANDRITZ Recycling Technology (ART) Center

The ANDRITZ Recycling Technology Center – ART Center for short – is open to recycling customers from practically all industries.

DISCOVER THE ART OF RECYCLING



On a total area of 3,600 m<sup>2</sup>, the ANDRITZ Recycling Technology Center in St. Michael, Austria, can conduct recycling tests with a wide variety of raw materials on state-of-the-art recycling machines of industrial size. The center is equipped with innovative shredding technology from the ADuro product line, which can be used for primary and secondary shredding as well as for fine granulation and dismantling of composite materials. This enables trials with a broad range of waste streams and the simulation of complete recycling processes.

Customers can run tests with their own material or with material provided by ANDRITZ, drawing on the expertise and knowledge of recycling experts. New recycling projects and investments can be planned easily, reducing investment risk to a minimum.



# Taking service to a higher level

ANDRITZ Recycling has the support and strength of an extensive global network of service specialists, machining centers, rebuild shops, and service locations.

Customers appreciate having an ANDRITZ Recycling expert on site to help them diagnose process or equipment problems and offer solutions to improve reliability and performance. That is why we maintain local service experts in key locations, backed by the global network of a leading technology supplier.

### BENEFITS

- Decades of experience with recycling machines and plants
- Global expertise, local contacts
- Replacement parts
- Rebuilds and retrofits
- Field services, audits, inspections
- Operator/maintenance training
- Maintenance contracts

VISIT OUR SERVICE WEBSITE



## Automation & Digitalization

ANDRITZ Pulp & Paper Digital Solutions was developed to solve today's digitalization challenges in the recycling industry. Tailored to each customer's needs, they can be configured individually to meet the requirements of a single unit application or a complete recycling plant.

### BENEFITS

- Smart product documentation
- Production transparency via mobile app access and automatic reports
- Online spare and wear part catalog
- Online support
- Machine monitoring and predictive maintenance
- Enhance availability and minimize production costs
- Increase overall equipment efficiency and reduce risk of operating errors
- Wireless online diagnosis of critical machine infrastructure (systems/parts)



# Recover raw materials and enhance values

A major goal in any industry is to turn waste into value. More product with fewer waste streams, translates into higher margins. This same goal applies to communities and consumers as well. As a manufacturer of high-quality recycling technology, we take it as a responsibility and commitment to future generations to conserve resources and create a cleaner world. We are proud of the considerable economic, environmental, and social impact of what we do.



Output materials from the battery recycling process (left to right): Cooper foil, aluminium foil, black mass, solvents, heavy parts, separator foil © Duesenfeld



Output materials from the recycling process: aluminium



## Metals recycling and special processes

No matter whether it is a battery, circuit board, solar panel, can, aerosol container, mattress, aluminum profile, scrap metal sheet, or textile bale, or perhaps metal turnings, slag, or wastepaper – ANDRITZ Recycling has already successfully recycled it.



## Organic waste

The ADuro QZ shredder breaks down the cell structure of input waste materials (e.g. organic waste, corn and whole crop silage, grass silage, farmyard manure, restaurant and kitchen waste, and packaged foods) to maximize the contact surface area for fermentation bacteria to perform their magic. It is easy to install or retrofit in existing plants.



## Waste-to-value, RDF production

Refuse-derived fuel (RDF) is a valuable substitute for primary materials such as gas, oil, and coal. ANDRITZ offers modern and efficient processing technologies for the production of RDF.



## Paper mill rejects

Rejects mainly result from the pulping process of a waste paper recycling line. ANDRITZ Recycling offers optimized systems depending on the applied pulping system. For example, the so-called "pulper rags" are a potentially valuable raw material source due to their high proportion of steel wires and RDF for energy production or re-oiling. The ADuro P shredder processes the waste input material in just one step.



## Battery

ANDRITZ stands as a comprehensive front-end supplier in battery recycling, specializing in mechanical pre-treatment, commonly known as black mass production. This process includes several stages: Discharging, shredding, drying, and finally sorting and separation. The main output fractions from these processes are: Black mass, copper and aluminium foils, heavy parts, solvents and electrolytes, separator foil.



## Refrigerators

Fridge recycling involves the safe and efficient processing of end-of-life refrigerators to recover valuable materials and handle contained substances responsibly. ANDRITZ systems use enclosed, automated technologies that gently shred appliances, separate metals and plastics, and extract propellants and gases from insulation and cooling circuits. The result is high-quality material recovery combined with a controlled, clean, and reliable recycling process.



## WEEE

WEEE (Waste Electrical and Electronic Equipment) refers to end-of-life electrical and electronic devices that have become waste when discarded, such as household appliances, IT equipment and consumer electronics. WEEE contains a complex mix of materials, including valuable metals and hazardous substances, and is regulated to ensure proper collection, treatment and recycling to prevent environmental harm and recover resources for circular economy use.



## Cable scrap and wires

ANDRITZ Recycling supplies complete processing lines for all types of cable and wire scrap and has many years of experience in doing this. Individual metal fractions are recovered with nearly 100% purity due to the technology employed for pre-shredding, granulating, sorting, and separating.



## Automotive parts, tires

The main task in recycling end-of-life vehicles and tires is to break them down into their individual components in such a way that the valuable materials can be recovered and effectively processed. For tires, this means breaking the used tire down into its main building blocks, so that these components can be recovered with the highest purity.



## Plastic waste

ANDRITZ has developed a very compact recycling system to save transportation and disposal costs and eliminate the damage to the environment caused by burning plastic waste. Instead, the system recovers plastics as a valuable secondary raw material featuring high purity.



## Textile waste

Much of the pre- and post-consumer waste generated by the textile industry ends up incinerated or in landfills. Technology can change this: ANDRITZ is at the forefront of the movement to provide industrially and economically viable solutions that bring circularity to the world of natural and synthetic fibers.



## Wood waste

Potential wood waste markets include feedstock for composite materials, fuel for energy generation, animal bedding, and soil amendments. The recycled material is generally processed locally so it does not have to be transported over long distances. The ADuro P and ADuro U shredders are superior multitalents that handle bulky wood waste with great efficiency.

# ADuro product family

# Performance meets durability



**ADuro P**  
Superior shredding of bulky materials



**ADuro C**  
Pre-shredding without compromise



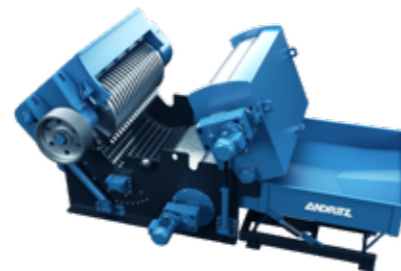
**ADuro U**  
Innovative shredding technology



**ADuro S**  
The next generation in secondary shredding



**ADuro G**  
Flexible and reliable fine shredding



**ADuro H**  
Effective waste processing with swinging cutters



**ADuro F**  
Efficient grinding with less dust



**ADuro QZ**  
Fast disintegration of composite materials



GET MORE  
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## ADuro SHREDDER LINE

ANDRITZ Recycling has focused on the key processes to develop excellent single equipment units such as shredders, which are the main components in any recycling operation.

The ADuro product line comprises a broad range of innovative machines for primary and secondary shredding, fine granulation, and breaking up material composites. ADuro shredders are perfectly suitable for processing almost all raw materials in the recycling industry and can also be installed easily in existing facilities, which keeps shutdown times for installation purposes to a minimum. By separating and treating many different waste flows, we make raw materials usable again, either as a source of additional revenue or by reusing the materials within the production cycle.



"We offer our customers sustainable solutions and make a significant contribution to the circular economy with our recycling technologies."

**THOMAS GEMEINER**

Vice President ANDRITZ Recycling





## OUR ENVIRONMENT IS A TREASURE TO BE PRESERVED

So are the raw materials contained in your waste products. Let us help you utilize them to your advantage. ANDRITZ Recycling is actively demonstrating its commitment to conserving valuable resources by offering a wide range of capabilities in the recycling industry. Our technologies cover solutions for processing rejects from the paper industry, e-scrap, metal and special waste, organic waste, end-of-life vehicles, wood, plastic, and textile waste as well as applications for generating energy from various waste products.

ANDRITZ Recycling Service develops recycling solutions that pay off for our customers throughout the entire lifecycle of their mills or equipment. Our services range from the timely supply of spare parts and routine maintenance work during scheduled shutdowns to swift response and support during unexpected disruptions or implementation of our latest IIoT solutions. Our team is dedicated to keeping your operations running smoothly and efficiently.

### AUSTRIA

ANDRITZ AG, Graz  
recycling@andritz.com

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# ANDRITZ

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