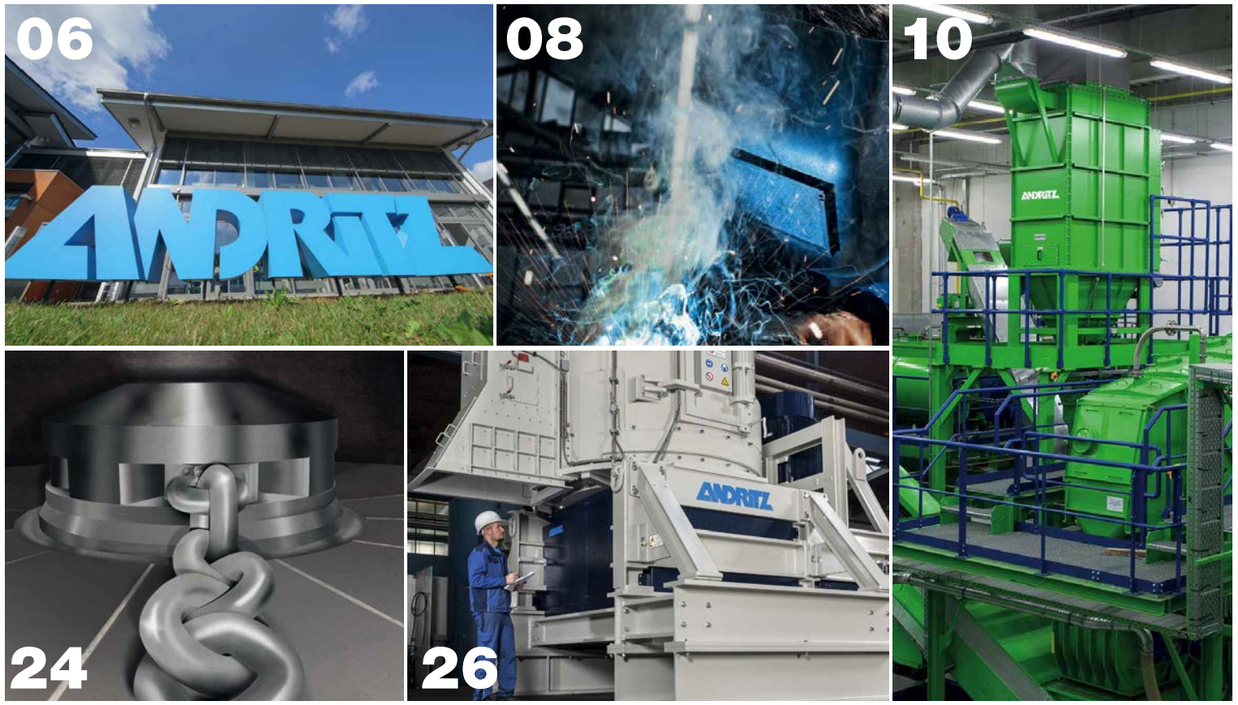
ANDRITZ**RECYCLING TECHNOLOGIES**

Recover raw materials.
Maintain values.

ANDRITZ



CONTENTS

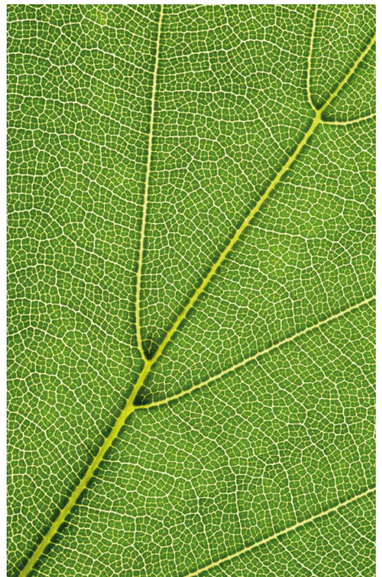
RECOVER RAW MATERIALS **MAINTAIN VALUES**

As a manufacturer of high-grade recycling technology, we are aware of our considerable ecological and social responsibility and consider it our duty towards future generations to make a significant contribution towards conserving our environment and its resources.

Our technologies contribute actively towards recovering secondary raw materials with high recovery rates and thus reducing the extraction of primary raw materials. By treating different waste flows in pure fractions, we can make the raw materials they contain usable again in industry. Furthermore, we set ourselves the task every day of further improving the quality of the secondary raw materials generated and increasing our contribution towards protecting the environment. At the same time, we develop recycling solutions that pay off for our customers and offer our expertise for further technical optimization to improve the quality of results as well as profitability. We advise with vision: Together with the customer we develop future-oriented solutions to deal with new kinds of waste streams.

In our product development we also focus on sustainability and conserving resources while maximizing customer benefit at the same time. Our recycling machines are distinguished by their durability and energy efficiency, thus they also conserve the environment in everyday operation.

Each of our employees is fully committed to continuing the ANDRITZ success story in recycling.



ANDRITZ: STRONG BRAND
IN THE RECYCLING MARKET

The ANDRITZ Recycling brand is convincing customers worldwide and has made an impressive start. There are many reasons for this: 150 years of experience in industrial plant engineering, a wealth of MeWa and Franssons experience in the recycling industry, comprehensive process know-how, high innovative power, convincing references, global production and service network, and strong financial security.

1984 — **Company founded**
Sale of shredding machines for wood and the household and industrial waste sectors

1993 — Progressed from being a unit machine supplier only to an expert for complete recycling plants

1998 — New development of the Universal Cross-Flow Shredder QZ, an innovative technology for breaking down materials quickly and gently

2000 — Commissioning of the largest processing plant so far for refrigerators in the UK

2009 — Start-up of the largest and most modern, fully automatic recycling plant to date for e-scrap

2013 — **Launch of the new ANDRITZ MeWa brand**

2014 — New generation of the entire machinery portfolio comes onto the market

2015 — Entry to the Chinese market by setting up a cable recycling plant

2016 — Various large-scale orders in Germany, France, Malaysia and England

2017 — ANDRITZ acquires Franssons: Machinery portfolio expanded (single-shaft shredder FRX)

▲ A strong link: ANDRITZ, MeWa and Franssons

MEWA
was launched in the mid-eighties with a handful of employees merely as a sales office for shredders – mainly for wood as well as the household and industrial waste sectors at that time. Very soon, however, it became clear that the company had much more to offer and progressed in the nineties from being a unit machine supplier to an expert in complete solutions for very different materials. Particularly in the field of electrical and electronic scrap and refrigerator recycling, MeWa's plant solutions with a completely new kind of processing technology in the Universal Cross-Flow Shredder QZ attracted a great deal of attention and won international environmental awards. Within no time at all, the machines became the preferred technology throughout Europe for recycling e-scrap, refrigerators, and metal and plastic composite materials.

FRANSSONS
The Franssons success story began over 70 years ago. In the early days, the company based in Sundsvall, Sweden, started to build fans for the wood and paper industries. For better transporting, Franssons finally developed the first shredder. Over the years, other types of machines were added to the product portfolio and today still also concentrate on processing household/industrial waste and plastic waste in addition to wood. Franssons adopted a more international structure when it opened a branch office in Southern Europe and established lots of international partnerships.

ANDRITZ
The MeWa and Franssons technologies have been sold under the ANDRITZ flag since 2013 and 2017. This has many advantages for customers: ANDRITZ has service and sales locations worldwide as well as state-of-the-art manufacturing centers. As a result, the company is even closer to the customer and can process inquires more quickly. Extensive investments in the research and development sectors have given our recycling machines a new sheen and multi-faceted technical enhancements. The recycling machines fit perfectly into the ANDRITZ product portfolio and can also be combined to optimum effect with other ANDRITZ technologies, such as presses, drum dryers, or ballistic separators, for more complex plant concepts. In combination with the healthy financial foundation of the ANDRITZ GROUP, ANDRITZ Recycling offers customers and partners the security to invest in their recycling project.

LAST **PROJECTS** WON
- Refrigerator recycling plant in Germany
- E-scrap recycling plants in France and Malaysia
- Combined plants for e-scrap and refrigerators in the UK and Hungary
- Cable recycling plant in China
- Several plants for pulper rags in Germany
- Unit machines for many different sectors

RECYCLING THINK TANK

NEW ADMINISTRATION BUILDING AND TEST CENTER

In 2016, ANDRITZ MeWa moved into the modern facilities at Herdweg 4 in Gechingen, just a stone's throw from the former company headquarters. In doing so, the company reacted to the growing demand for innovative recycling technologies and needs-oriented trials, deliberately remaining faithful to its location close to Stuttgart, the provincial capital of Baden Württemberg.

Modern, innovative, and friendly – its appearance now fits very well with ANDRITZ MeWa's corporate philosophy. After all, the company had become one of the leading suppliers in many sectors with its innovative, modern solutions. Thanks to its modern building system engineering, such as air-conditioned rooms and automatic blinds, working here is also much more pleasant – ideas can be forged more easily, projects elaborated, and meeting held more efficiently.

The pilot plant has also moved to new accommodation and has already been used for material tests on several occasions. Protected against wind and weather, all materials can now be processed without any disruptions and the ANDRITZ MeWa machines are thoroughly tested.

"The appearance now fits very well into our corporate philosophy."
Josef Imp
ANDRITZ MeWa Managing Director

▲ A tight-knit team behind a strong brand

▼ State-of-the-art building system engineering: The new ANDRITZ MeWa administration building

THE NEW **TEST CENTER**

- Very well equipped with the latest generation of machines
- Consulting with in-depth know-how
- Selection of the optimum machine, machine size, and technical features
- Meeting room in pilot plant
- All inquiries and tests treated confidentially
- Testing and development without any financial risk

▼ New test center

▼ A large spare parts store is at the ready

WELL PREPARED FOR THE FUTURE

MANUFACTURING AT THE HIGHEST LEVEL

The ANDRITZ MeWa machinery portfolio stands for high quality, convincing throughput, maximum flexibility, and low wear. ANDRITZ MeWa is continuing steadily on this path by completely reworking the machinery portfolio and offering fully renovated machines – both visually and functionally, with numerous improvements.

The primary goal was to improve the products both technically and visually so that they set themselves apart in a positive sense from previous MeWa products and also from competitors' goods. In order to achieve a fresh design with high recognition value, an external designer was taken on board. The process of redesigning a machine always follows the same, tried and tested approach at ANDRITZ: When planning work starts, the actual status is analyzed in great detail: What are the advantages and disadvantages of the previous generation of machines? Is there potential for improvement? What are customers asking for? What requirements are dictated by the material? All of the findings are brought together in a specification. Then the first 3D concepts are created on a computer. The concept that comes out best in terms of costs, engineering, maintenance, and visual appearance is discussed at the first design review. The goal is to generate as many additional ideas as possible, but also to ask critical questions in order to optimize the concept further. After the changes have been incorporated, the first detailed drawings are prepared. In addition, possible product defects are analyzed in order to steer clear of them from the outset. The approval is given to manufacture the prototype in Graz at the ANDRITZ GROUP's main manufacturing facility. Finally, the findings from the prototype phase are considered when building other machine sizes and pave the way for production in series at the various ANDRITZ manufacturing facilities.

Depending on the country where a machine is sold, the company can fall back on various different manufacturing locations, for example Humenné in the Czech Republic or Foshan in China. Each ANDRITZ manufacturing facility has the latest high-tech equipment and participates in the international transfer of know-how. This leads to the comfortable situation of being able to manufacture goods with the same high quality level everywhere.

With its own manufacturing operations at global level, ANDRITZ MeWa succeeds in responding quickly and flexibly to customer orders with its diverse product portfolio and was able to place many new machines in the national and international markets within a short time.

All of the machines in the ANDRITZ MeWa portfolio have gone through this process and seen successful further development.

MANUFACTURING LOCATION IN **GRAZ**

The assembly shops at the manufacturing facility in Graz cover a total area of around 9000 square meters and house an impressive array of ultra-modern machining equipment. The main manufacturing facility has a capacity of 400,000 to 650,000 hours per annum and takes on orders from the various ANDRITZ business areas around the world.

The latest measuring technology combined with comprehensive materials testing secures the high quality of all of the products manufactured. This is an essential element in meeting the high standards requested by customers.

The manufacturing processes continue to develop just as the production results do. There are also specialists here working continuously on further development of the processes, and the individual products profit ultimately from this because certain features are improved and a higher quality is achieved overall.

▼ Aerial photography of ANDRITZ headquartes and production site in Graz

E-SCRAP & REFRIGERATORS

LEADING TECHNOLOGIES WORLDWIDE

Electrical and electronic scrap is the fastest growing waste flow worldwide. Almost 50 million tons of electrical appliances are disposed of worldwide every year. In Europe alone, each inhabitant generates approximately 16 kg of e-scrap every year. According to a forecast by the United Nations, the volume of e-scrap will continue to rise sharply in the next few years.

With its innovation – the Universal Cross-Flow Shredder QZ – ANDRITZ MeWa has strongly influenced the entire recycling sector and become the first address for e-scrap recycling solutions as a result. Without requiring cutting tools, the machine breaks down different composite materials quickly and gently with rotating chains so that the individual fractions, like iron, plastic, printed circuit boards, cables, and copper coils, are exposed and can be sorted easily in the process that follows. Parts containing hazardous substances, such as batteries and capacitors, are left intact and can be disposed of without any negative impact on the environment.

INPUT

- Refrigerators (CFCs/pentane)
- Electrical household appliances
- White goods
- Consumer electronics

▲ Top: Old electrical appliances. Bottom: Refrigerators.

CUTTING-EDGE SOLUTION FOR **REFRIGERATORS**

The fully encapsulated, single-stage system for processing refrigerators recovers more than 90% of the environmentally harmful greenhouse gases from CFC and pentane appliances without any risk of fire.

PROCESS ADVANTAGES **IN E-SCRAP/ REFRIGERATOR RECYCLING**

- Process technology complies with WEEELABEX and CENELEC requirements
- Single-stage process
- Less wear thanks to chain technology
- Wide range of input materials
- Many possible settings
- Rapid access to exposed valuable fractions
- No hazardous substances released
- Manual and fully automatic sorting
- High recovery rates for valuable materials and CFCs/pentane
- Many references worldwide

OUTPUT

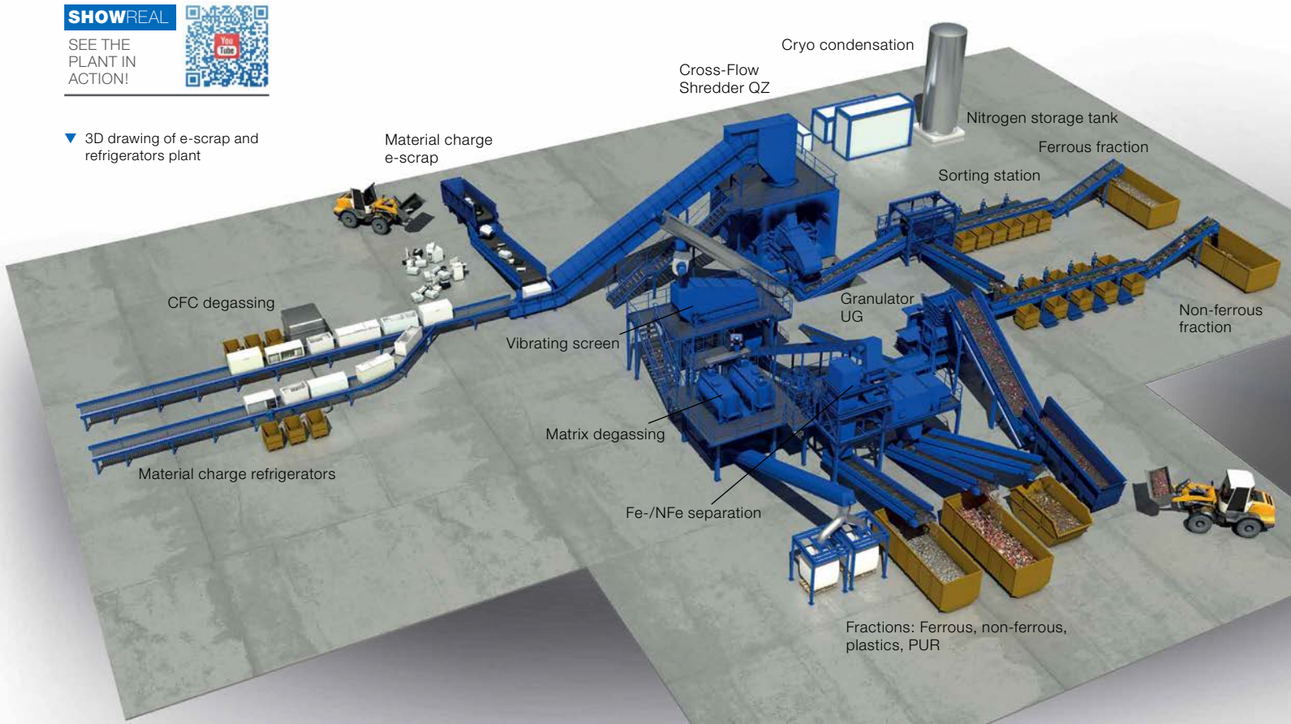
- Exposed printed circuit boards
- Transformers
- Aluminum
- Copper
- Iron
- Stainless steel
- Plastics
- Batteries
- Compressors
- Polyurethane
- CFCs/pentane

▲ Top: Iron fraction. Center: Aluminum and copper. Bottom: Printed circuit boards.

SHOWREAL

SEE THE PLANT IN ACTION!

▼ 3D drawing of e-scrap and refrigerators plant



CABLES & FLEXIBLE WIRE

HIGH INNER VALUE

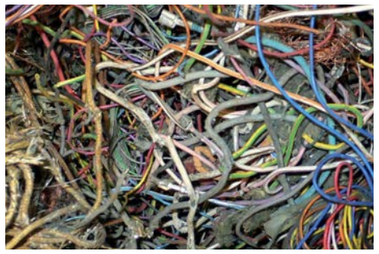
Cable recycling not only conserves valuable resources, it also saves large quantities of energy. In fact, metal recycling only requires a fraction of the energy that has to be expended to mine and extract ore.

There are many different types of cable with different cross-sections and material compounds: flexible wire cables, household cables, power cables, underground cables, copper and aluminum cables, as well as high-voltage cables with V-PE sheath. The strands contain a large amount of valuable materials due to the high metal content. As the individual fractions adhere very closely to one another, a recycling system that can produce small grain sizes is needed for optimum separation of the individual fractions.

ANDRITZ MeWa has been supplying complete processing lines for all types of cable waste for many years. The individual metals are recovered with almost one hundred percent purity using the units for pre-shredding, granulating, and fine granulating as well as modules for sorting and separating the raw materials.

INPUT

- Household cables
- Power cables
- Underground cables
- Copper/aluminum cables
- High-voltage cables



▲ Top: Flexible wire cable. Bottom: Copper cable.

PROCESS ADVANTAGES IN CABLE RECYCLING

- ➔ Can be used for all types of cable waste
- ➔ High purity level and recovery rates
- ➔ Throughputs of approximately 2 – 4 t/h
- ➔ Pre-shredding aligned to the type of cables
- ➔ Output fractions according to desired grain size
- ➔ Optimum alignment of recycling steps
- ➔ Easy separation into individual fractions
- ➔ Vast experience: Many recycling plants built worldwide

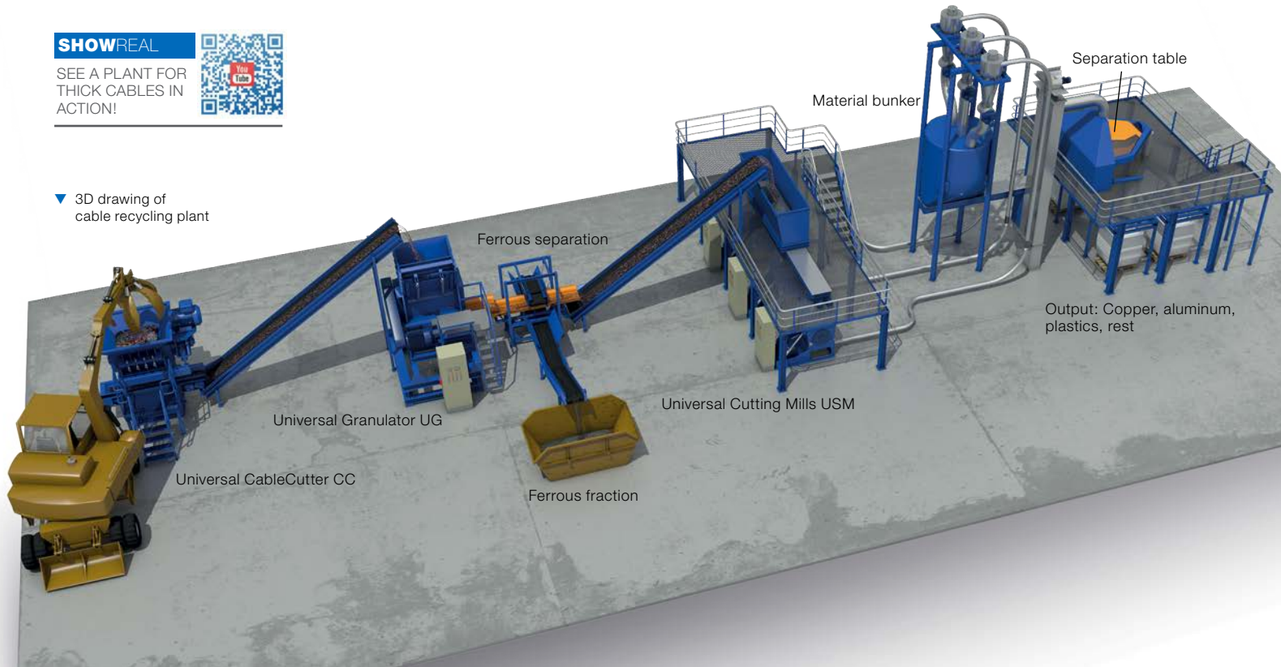
OUTPUT

- Copper
- Aluminum
- Iron
- Lead
- Plastic

▲ Top: Copper. Bottom: Plastic sheathing.

SHOWREAL

SEE A PLANT FOR THICK CABLES IN ACTION!



▼ 3D drawing of cable recycling plant

METALS & SPECIAL RECYCLING PLANTS

COMPLETE PROCESS SOLUTIONS

There are hundreds of different types of waste, but many of them are very specific and thus require a special processing technology. The most attractive products for recycling are primarily those that contain metals like iron, aluminum, copper, or zinc because they can be recycled time and time again without any loss of quality and also be sold on the market for secondary raw materials at good prices.

Whether it is batteries, computer circuit boards, solar panels, scrap cans, aerosol cans, mattresses, metal shavings, aluminum profiles, waste paper or textiles tied in bales, metal sheets, and slag – ANDRITZ MeWa has dealt successfully with many different materials over the past 30 years and made a name for itself in developing special solutions. In the company's own pilot plant, materials for which there is little experience available can be tested with the ANDRITZ MeWa technologies without any high financial risk.

INPUT

- Batteries
- Printed circuit boards
- Solar panels
- Scrap cans
- Aerosol cans
- Aluminum profiles
- Metal shavings
- Slag
- Fiber-reinforced plastics

▲ 1. Aerosol cans. 2. Scrap cans.
3. Fiber-reinforced plastics. 4. Aluminum profiles.

PROCESS ADVANTAGES IN SPECIAL PLANTS

- 30 years' experience in developing special solutions
- Wide range of different materials
- Different machine processing methods depending on the material concerned
- High throughputs
- High purity level in output
- High recovery rates
- Gentle, environmentally friendly treatment of potentially harmful substances

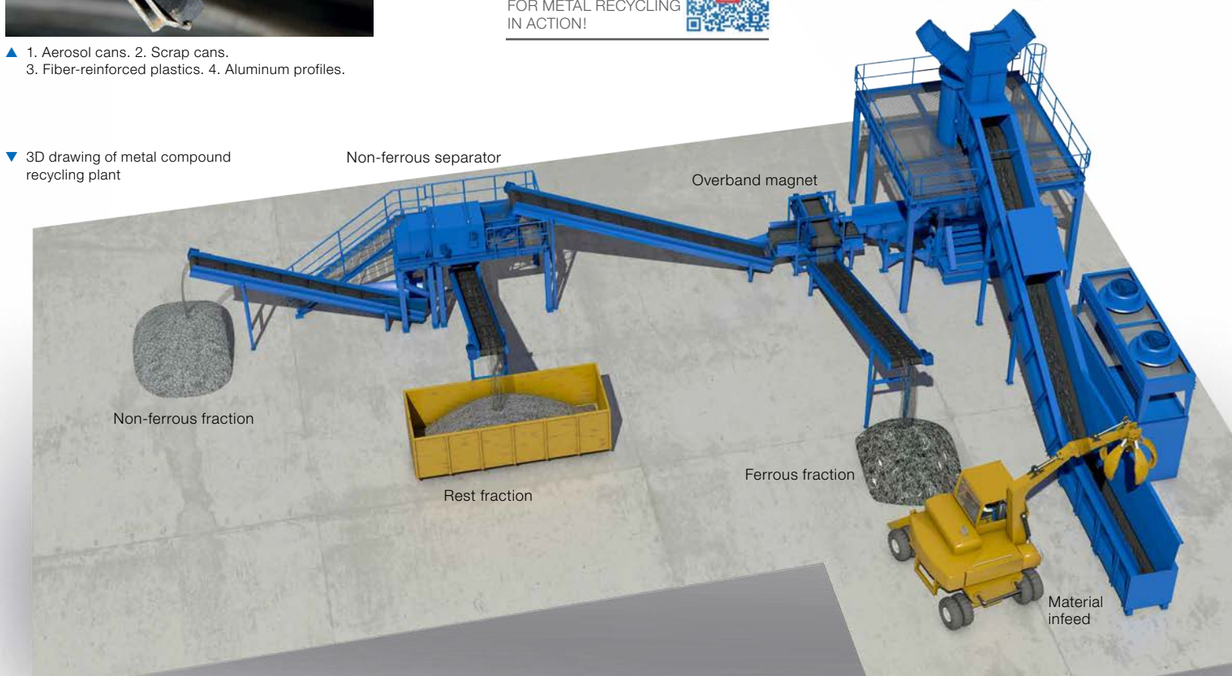
OUTPUT

- Iron
- Copper
- Aluminum
- Tinplate
- Plastics

▲ Top: Aluminum. Bottom: Scrap cans.

SHOWREAL
SEE OUR SOLUTIONS FOR METAL RECYCLING IN ACTION!

▼ 3D drawing of metal compound recycling plant



AUTOMOTIVE PARTS & USED TIRES

FROM HAZARDOUS WASTE TO VALUABLE RAW MATERIALS

The components of end-of-life vehicles contain many valuable raw materials. Whether it is the metals in oil filters and catalytic converters, aluminum in wheel rims and engine blocks, or rubber granulate in used tires – ANDRITZ MeWa's processing technology has the right answer for every need. A new recycling process has also been developed for the growing number of lithium-ion batteries in electric cars.

The main task in recycling tires is to break them down into their individual components – rubber, steel wire, and textiles. In this sector, ANDRITZ MeWa recycling plants recover the raw materials with highest purity in a three-stage process.

Old oil filters from cars and trucks are considered hazardous waste in all parts of Europe. But as they comprise at least 60% metal, recycling is well worth while. With special tooling, the Universal Granulator UG shreds the oil filter in a single-stage process. The individual fractions – iron, aluminum, paper, rubber, and oil – can then be separated from one another easily.

INPUT

- Used tires
- Oil filters
- Catalytic converters
- Engine blocks
- Shredder-light-fraction
- Aluminum rims
- Interior/exterior

▲ Top: Engine blocks. Center: Oil filters Bottom: Tires.

PROCESS ADVANTAGES FOR CAR PARTS

- ➔ Flexibility of input materials
- ➔ Cutting or striking technology: optimum tailoring to the material concerned
- ➔ Optimum separation of the individual material components
- ➔ Very high purity level and recovery rates
- ➔ Environmentally friendly, integrated solutions for draining oil out of oil filters

PROCESS ADVANTAGES FOR TIRES

- ➔ Throughput (depending on requirements) 3 – 20 t/h
- ➔ Purity of rubber granulate > 99,9 %
- ➔ Granulating and fine grinding to < 1 mm
- ➔ Plant can be expanded thanks to modular design

OUTPUT CAR PARTS

- Iron
- Non-ferrous metal
- Paper
- Oil
- Plastics

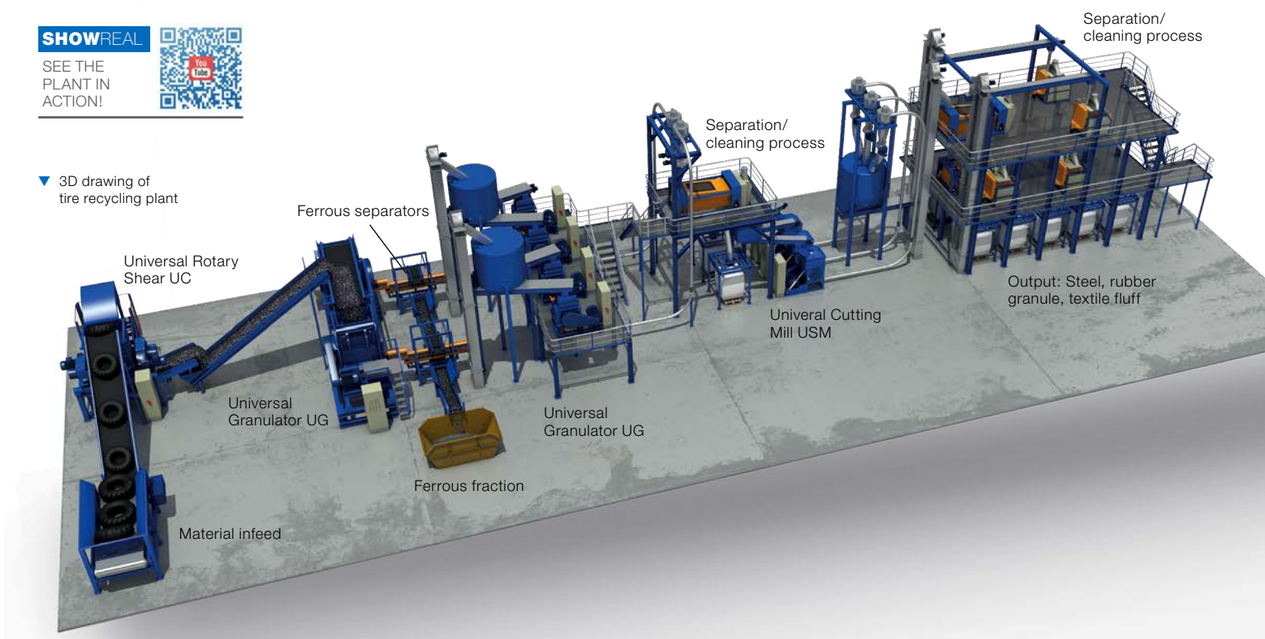
OUTPUT USED TIRES

- Tire pieces
- Rubber granulate
- Powdered rubber
- Steel wire
- Textile fluff

▲ Top: Oil, iron, rubber. Bottom: Powdered rubber.

SHOWREAL
SEE THE PLANT IN ACTION!

▼ 3D drawing of tire recycling plant



SUBSTITUTE FUELS & METAL CLEANING

HIGH-GRADE SUBSTITUTE FUELS & METALS

Around 3.5 million tons of waste are produced globally every day. The main sources are the industrialized nations in Europe and North America. However, the amount of waste produced is also increasing particularly strongly in countries experiencing very high economic growth – for example China or India. ANDRITZ MeWa has developed an ecologically and economically viable process to cope with this deluge of waste.

With a combination of pre-shredding, post-shredding, sorting, and drying, the entire flow of waste is separated into organic and inorganic components. Valuable fractions such as metals are removed from the process at an early stage and can be recycled. Finally, the non-recyclable residual fraction with high heat value is processed to yield a highly calorific substitute fuel that is used in the cement and steel industry or in power plants.

The metal fraction, often with plastics or textiles still adhering to it, can be cleaned further in an additional section of the plant. These composite materials can be broken down with the Universal Cross-Flow Shredder QZ. In the end, the steel scrap and non-ferrous metals are available with a purity of 98 % – perfect for use in the steel industry.

INPUT

- Household refuse
- Industrial garbage
- Production residues
- Bulky waste

▲ Top: Household and industrial waste.
Bottom: Plastic waste.

PROCESS ADVANTAGES OF SUBSTITUTE FUEL PLANTS

- Powerful and reliable pre-shredding
- Rapid removal of the metal fraction
- Drying with the ANDRITZ Vandenbroek drum dryer
- Granulating stage with the Universal Granulator UG and individually defined screen sizes
- Separation after each shredding stage
- High-quality substitute fuel fraction
- Metal fraction can be purified further with the Universal Cross-Flow Shredder QZ

OUTPUT

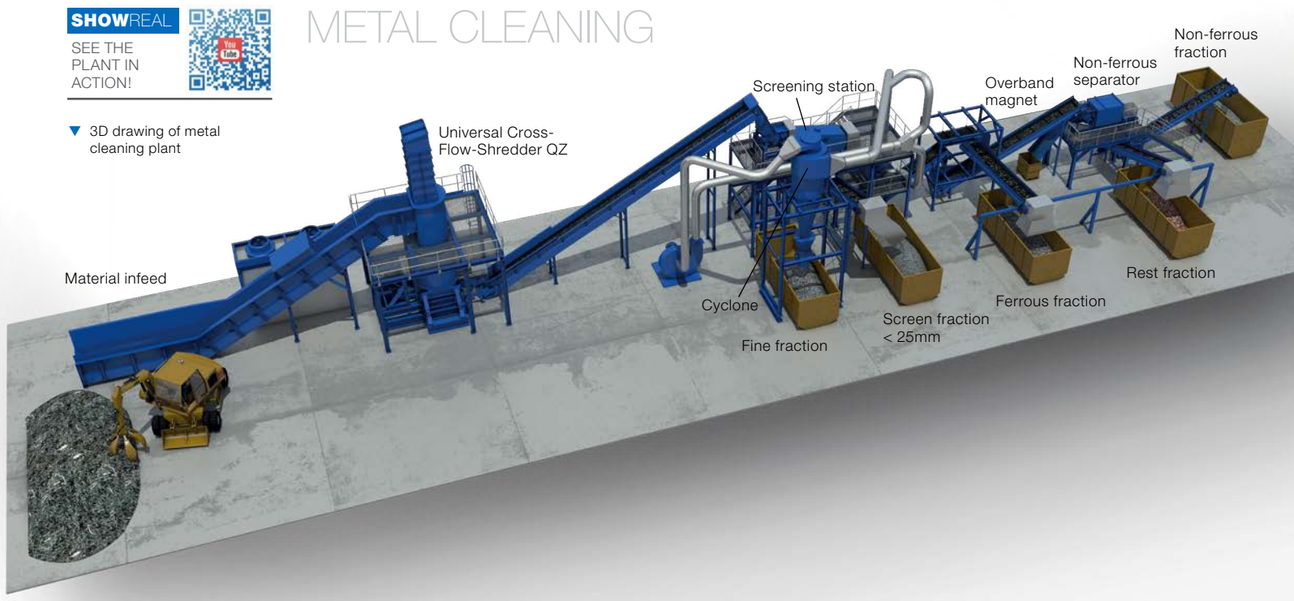
- Plastics
- Textiles
- Paper
- PVC
- Metals
- Minerals
- Wood, glass

▲ Top: Refuse derived fuels. Bottom: Metal.

SHOWREAL
SEE THE PLANT IN ACTION!

METAL CLEANING

▼ 3D drawing of metal cleaning plant



PULPER RAGS & REJECTS

IMPORTANT SOURCE OF RAW MATERIALS IN RECYCLING OF WASTE PAPER

In Europe, waste paper is the most important raw material available regionally for the paper industry. It is supplied to the paper mills as compressed bales held in shape with tying wire. Any plastic films, textile scraps, tying wires, and similar components are contaminants in the paper preparation stage. They occur in the form of pulper rags and rejects.

Due to the rather high proportion of steel wire in the content, the rags are also a valuable source of raw material. In order to process the pulper rags, ANDRITZ MeWa has developed a two-stage process: The Universal Rotary Shear UC used to pre-shred the stringy material. The Universal Granulator UG deals with post-shredding. If a replaceable screen is used underneath the rotor with variable screen slot diameters, this can have a decisive influence on the throughput and the shredding result.

INPUT

- Pulper rags
- Rejects

▲ Top: Pulper rags. Bottom: Rejects.

PROCESS ADVANTAGES **FOR PULPER RAGS**

- Extensive experience in recycling of pulper rags and rejects
- Stable system, resistant to contaminants
- Powerful and energy-saving pre-shredding with the Universal Rotary Shear UC
- Pre-shredding throughputs of approx. 10 t/h
- Efficient granulation with the Universal Granulator UG
- Influence the result and throughput by selecting the optimum screen size
- Pure metal and substitute fuel fractions
- High recovery rates

OUTPUT

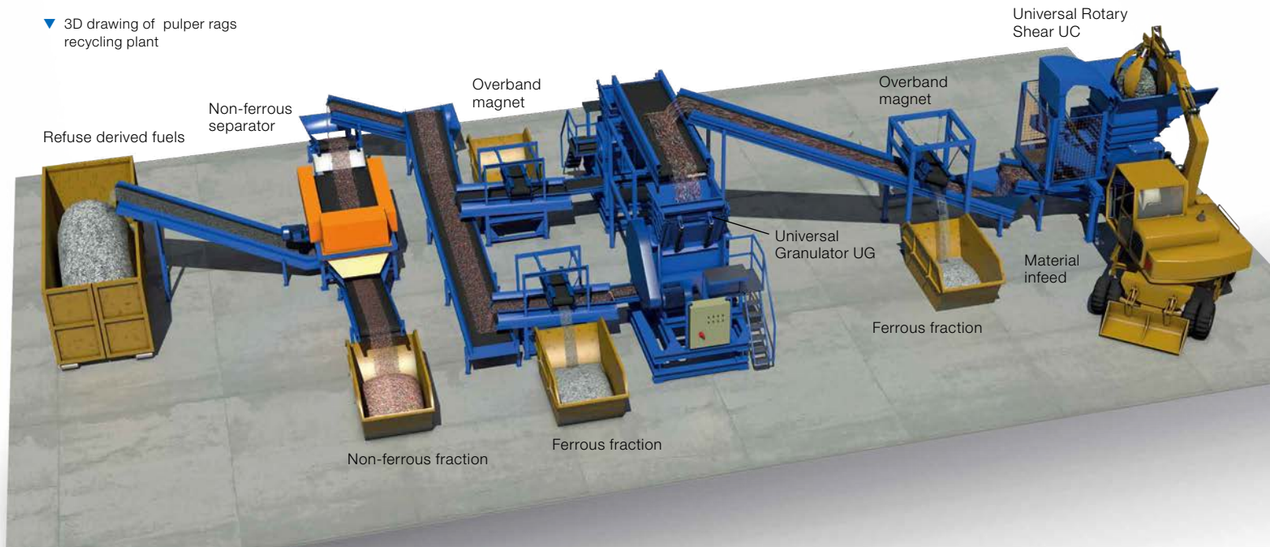
- Substitute fuels
- PVC
- Steel
- Other metals

▲ Top: Steel fraction. Bottom: Substitute fuels.

SHOWREAL

SEE THE PLANT IN ACTION!

▼ 3D drawing of pulper rags recycling plant



ORGANIC WASTE & RENEWABLE RAW MATERIALS

OPTIMUM TREATMENT FOR SUBSTRATES

ANDRITZ MeWa has developed its own technology for optimum preparation of packaged food, organic waste, and energy crops for the fermentation process in biogas plants. The Bio-QZ breaks down the cell structure of the input substrates, such as organic waste, corn silage, grass silage, and manure from cows, poultry, and horses, thus providing much more contact surface for the bacteria. In this way, gas formation starts measurably faster and more intensively. This can reduce the duration of the overall process substantially and increase the cost-effectiveness of the biogas plants up to 30 %.

The Bio-QZ comes into its own particularly with wrapped foodstuffs or kitchen and restaurant waste. By crushing and stirring the material at the same time, the Bio-QZ separates the organic from the packaging material. After the material mix has left the Bio-QZ, packaging and other inorganic components can be filtered out easily by means of separation technology.

INPUT

- Organic waste
- Restaurant/kitchen waste
- Packaged food
- Corn and whole crop silage
- Cow, horse and poultry manure
- Grass clippings

▲ Top: Packaged food. Bottom: Corn silage.

PROCESS ADVANTAGES OF THE BIO-QZ

- ➔ High throughputs
- ➔ Wide range of different materials
- ➔ Higher gas yield due to faster gas formation
- ➔ Packaging removed from organic material
- ➔ Stable processes
- ➔ Homogeneous substrate suitable for pumping
- ➔ Scum layers dissolve quickly
- ➔ Easy to install in existing plants

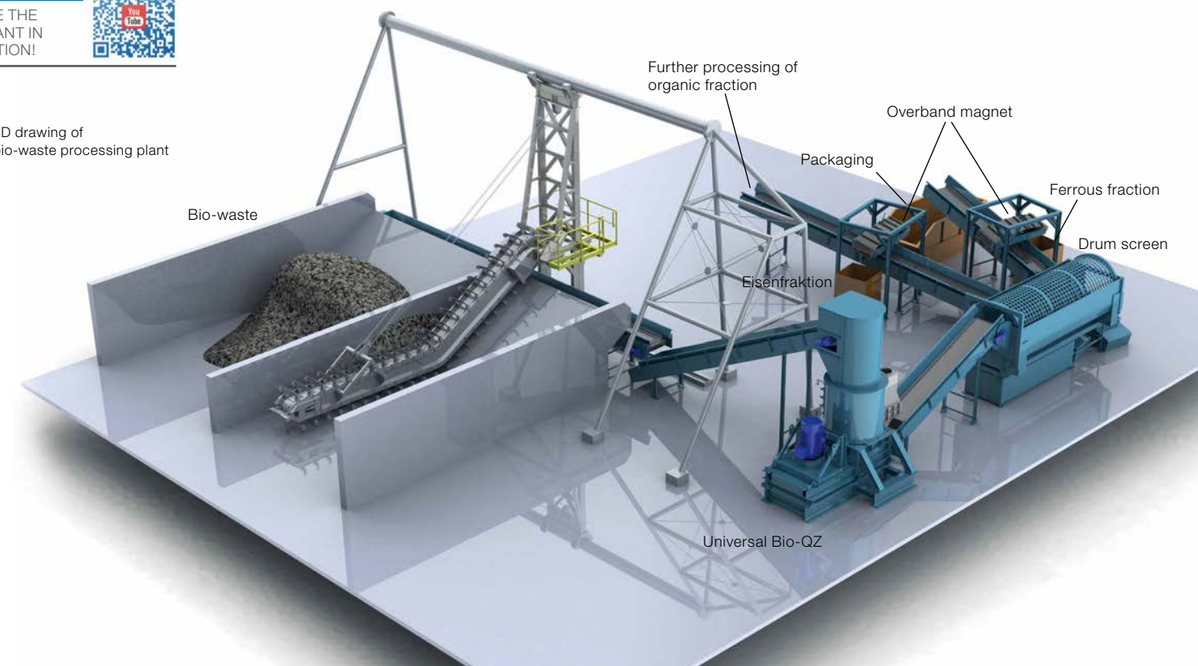
OUTPUT

- Removed packaging
- Unwrapped organic waste
- Material suitable for pumping

▲ Top: Corn silage. Center: Organic waste. Bottom: Packaging.

SHOWREAL
SEE THE PLANT IN ACTION!

▼ 3D drawing of bio-waste processing plant



OUR MACHINERY PORTFOLIO

PRE-SHREDDING, GRANULATING, BREAKING DOWN THE MATERIAL

UNIVERSAL **ROTARY SHEAR UC** TWO-SHAFT PRE-SHREDDER

APPLICATIONS
- Household/industrial waste
- Pulper rags
- Tires
- Sheet metal
- Oil filters
- Underground cables
- Aluminum profiles
- PVC waste
- Mattresses

▼ Output: Cut metal

UNIVERSAL **GRANULATOR UG** POST-SHREDDING

APPLICATIONS
- E-scrap
- Plastics
- Rejects
- Tires
- Cables
- Metal profiles
- Oil filters

▼ Output: Aluminum granulate

UNIVERSAL **CUTTING MILL USM** FINE GRANULATING

APPLICATIONS
- Aluminum cables
- Copper cables
- Tire granulate
- PVC waste
- Plastics

▼ Output: Fine copper granulate

UNIVERSAL **CABLECUTTER CC** PRE-SHREDDER

APPLICATIONS
- Underground cables
- Telecommunication cables
- Flexible wire cables

▼ Output: Cable lengths

UNIVERSAL **SHREDDER FRX/FRP** SINGLE-SHAFT PRE- & POST-SHREDDER

APPLICATIONS
- Household/industrial waste
- Bulky waste
- Pulper rags, rejects
- Plastics
- Textiles
- Wood
- Paper

▼ Output: Substitute fuels

UNIVERSAL **CROSS-FLOW SHREDDER QZ** BREAKING DOWN MATERIAL

APPLICATIONS
- Electrical and electronic scrap
- Refrigerators
- Printed circuit boards and LCD monitors
- Composite materials: metal/plastic, iron/nonferrous metal, aluminum/plastic, wood/glass
- Scrap cans made of tinplate and aluminum
- Automotive parts (fittings, engine blocks, catalytic converters)
- Metal separator fraction from MBT plants
- Hazardous waste: paint tins, aerosol cans, batteries, toner cartridges
- Production waste, e.g. steel/aluminum turnings
- Fiber-reinforced plastics (FRP)
- Packaged food
- Organic waste

▼ Output: Iron parts

▼ Output: Aluminum and copper parts

▼ Output: Exposed printed circuit boards

OUR SERVICE

LOCAL SERVICES – GLOBAL KNOW-HOW

As a part of international technology Group ANDRITZ, ANDRITZ MeWa can fall back on an extensive network of service locations all over the world. Regardless of where our plant is, ANDRITZ MeWa customers appreciate the close cooperation with our local service experts.

All empirical values gathered worldwide help get the maximum performance and reliability out of any recycling plant or machine on site. In addition, we provide ideas for other fields of application that pay off. And if instant action is needed, we will be there: Repairs, rebuilds, and upgrades are performed quickly in order to minimize downtimes. Our maxim: Maintain good contact to customers after successful installation of our machines and plant technologies as well – at best with a custom-tailored service agreement.

Contact our service team:

Service card to cut out and keep

ANDRITZ Service-Hotline

+49 (7056) 925 222

www.andritz.com/mewa-service

ADVANTAGES OF **ANDRITZ-RECYCLING-SERVICE**

- More than 30 years' experience with recycling machines and plants
- Available worldwide, but at the same time close to the customer
- Service team with excellent technical competence and customer orientation
- Site visits
- Repairs, rebuilds, upgrades
- Individual, hands-on training
- High-quality spare and wear parts
- Individual service agreements

▼ Large spare parts store

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