



RECYCLING

ADURO U SHREDDER

ONE-STEP PROCESSING DOWN
TO SMALL PARTICLE SIZES

ANDRITZ

ENGINEERED SUCCESS

ADuro U shredder

With a large cutting surface area and unique cutting geometry, this powerful single-shaft shredder enables one-step processing to obtain particle sizes down to 10 mm.

The ADuro U class is a robust family of shredders that is capable of processing bulky materials (e.g. whole logs, large plastic containers, etc.) down to very small particle sizes in a single step. An output size of 10 mm is possible thanks to an adaptable and adjustable screening system, which is ideal for a variety of applications.

The cutting component of the ADuro U consists of an array of knives positioned both lower and higher and which overlap continually when cutting. This results in the incoming material being broken down uniformly and cut cleanly.

ADVANCED PENDULUM PUSHER

One key component of the ADuro U is the pendulum pusher with advanced design that allows operators to adjust the speed and pressure to meet specific requirements. Precise control of the

pressure and speed of the input materials when they are pushed against the cutting knives ensures optimum throughput and energy consumption for each application.

The unique design of the pendulum pusher eliminates the need for complex sealing and avoids the ejection of materials commonly experienced with ordinary horizontal pushers. This contributes to a clean and safe work environment.



- 1 Hydraulic pusher
- 2 Inspection hatch
- 3 Cutting unit
- 4 Hydraulic screen basket
- 5 Gear box
- 6 Motor
- 7 Friction clutch



AUGMENTED REALITY CONTENT

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Easy operation and maintenance

The ADuro U shredder is engineered and built for years of heavy-duty operation. Ease of maintenance is a hallmark of the design and is guaranteed by several smart features.



The hydraulic service hatch between the pusher and rotor was designed with safety and efficiency in mind, giving full accessibility to the wear parts. Due to the size of the ADuro U-2500X and U-3000X, both machines come equipped with an additional front hatch to further facilitate maintenance work, providing access to the interior from two sides of the machine.

Certain features of the ADuro U, such as programmed presettings for various materials, a protection clutch to avoid damage to motors during an overload situation, automatic safety lockout, and well-positioned service doors also contribute to its ease of operation and maintenance. Its compact footprint and profile enable it to be easily installed and integrated into an existing plant or facility.

MAJOR ADVANTAGES OF THE ADuro U

- One-step processing down to 10 mm particle size
- Powerful shredding of a wide range of input materials
- Innovative cutting system with large surface area
- Hydraulic pendulum pusher with adjustable speeds and pressures
- Full accessibility to wear parts for easy maintenance

	Drive power kW	Inlet chute mm	Rotor length mm	Rotor diameter mm	Weight t
U-1000	22-30	984 x 1,200	1,000	400	2.8
U-1400	45-55	1,420 x 1,200	1,400	400	4.2
U-2000	75-90	1,910 x 1,200	2,000	400	8.3
U-2500X	2x75-2x90	2,460 x 1,850	2,500	600	22
U-3000X	2x90-2x110	2,960 x 1,850	3,000	600	25



ADuro U: innovative shredding technology

The ADuro U shredder is a slow-rotating, single-shaft shredder with an electric motor drive and a hydraulic pendulum pusher. The cutting system is unique as it has continually overlapping knives to ensure uniform breakdown of materials and consistent particle sizes. No rotor cooling system is required. The knife system features optimized cutting geometry to cut bulky materials cleanly into the proper particle size. The rotor operates continuously to ensure high throughput and maximum efficiency.

INPUT MATERIALS

- Household/industrial waste
- Whole logs
- Bulky plastics
- Pulp and paper rejects
- Textiles
- Wood
- Paper



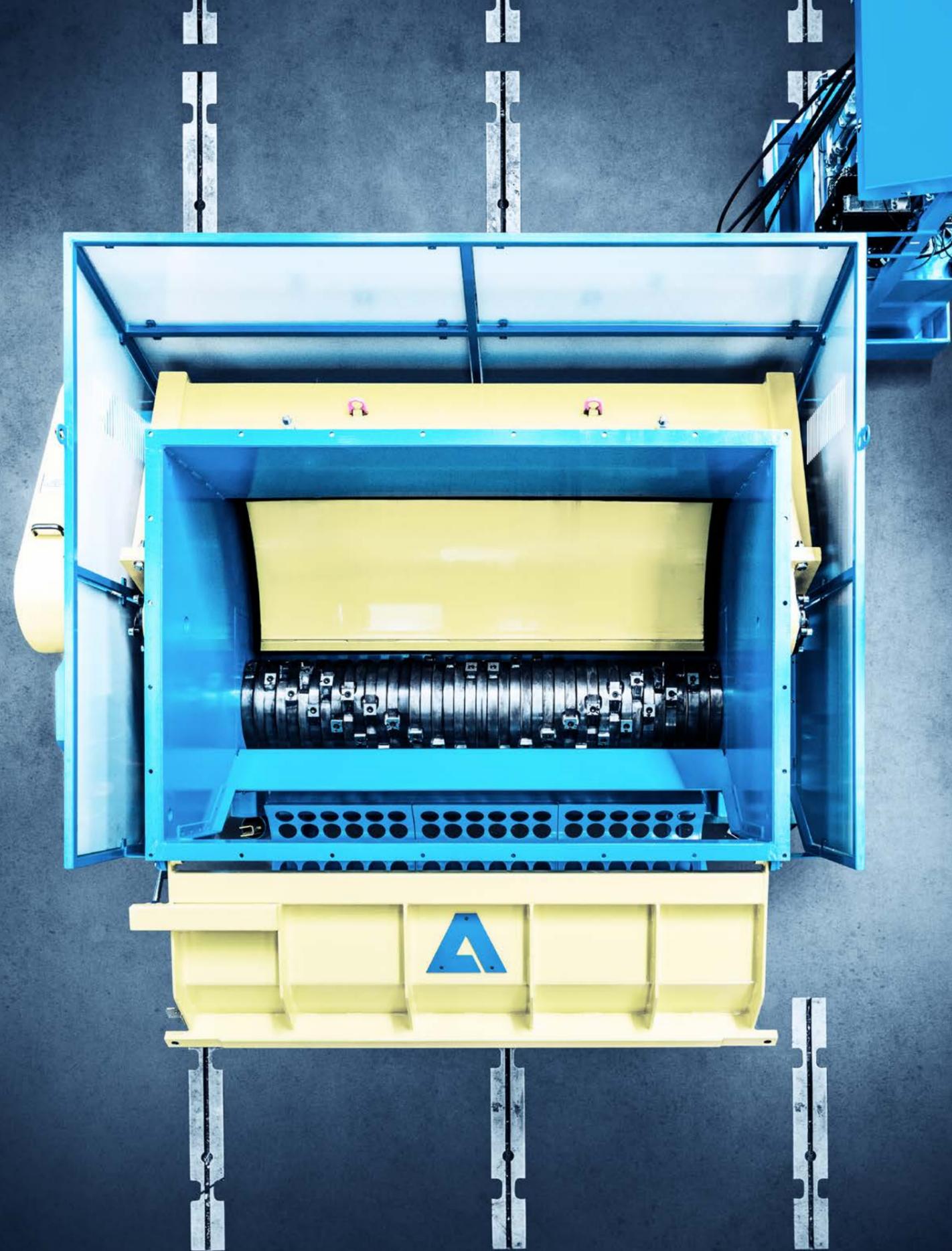
Plastic waste

Household and industrial waste

Textile waste

Wood waste

- 1 Input
- 2 Output





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 best 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 the complete lifecycle of your mill or equipment. From the supply of spare parts, routine work during a scheduled shutdown, to quick response during a disruption or latest IIoT solutions, we are available to keep operations running smoothly.

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