RECYCLING

ADuro S SHREDDER

THE NEXT GENERATION IN SECONDARY SHREDDING

ANDRITZ

ENGINEERED SUCCESS

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ADuro S shredder

A compact machine with a robust design - the ADuro S shredder is an innovative and flexible secondary shredder from ANDRITZ Recycling.
With a maximum rotor length up to 3,200 mm and unique design features, the machine is a powerful tool for shredding most types of waste.

Easy to run, operate and maintain, the new ADuro S shredder can be used with a variety of different waste products. Designed primarily for use with refuse-derived fuels (RDF), municipal solid waste (MSW), solid recovered fuels (SRF), and commercial and industrial waste (C&I), this machine can be used wherever a robust secondary shredder is required. Developed for high throughput with low energy consumption, it is extremely durable and provides high performance. Certain technical features make the machine flexible so that it can be used with different materials to achieve optimum results.

INNOVATIVE FEATURES FOR HIGH AVAILABILITY
The powerful ADuro S is outstanding due to its special design. The Intelligent Pusher Control can detect the pressure, rotation speed and power consumption of the shredder according to the machine load and uses the data to continuously control the pusher pressure and speed in order to ensure continuous cutting of the material with a high throughput. One of the unique time-saving and safety features of the ADuro S is the facility to adjust the cutting gap without having to open the machine. In addition, the rotor has a special design that prevents the ropes from being wrapped around the rotor.

To deal with large impurities in the input material that cannot be shredded, the ADuro S has a safety mechanism in place which stops the machine so that impurities can be easily removed, even if the machine is filled with material. The shredder can then be restarted immediately with the cutting chamber still full, thus reducing any necessary process downtime.

An innovative clamping mechanism eliminates the need of time-consuming welding or grinding

INPUT MATERIALS

- RDF (Refuse-Derived Fuels)
- MSW (Municipal Solid Waste)
- Industrial waste
- SRF (Solid Recovered Fuels)
- Plastic waste

1. Inside pusher
2. Rotor
3. Single-stage belt drive
4. Service flap
5. Screen basket
6. Locking cylinders
7. Friction clutch

The ADuro S: flexibility of design

The ADuro S shredder is designed for high availability and incorporates features that ensure a good flow of material with a cutting system producing continuous output of consistent quality and quantity with minimum downtime.

SPECIAL ROTOR TYPES

Three different rotors are available for the ADuro S shredder. The modular system of the design means that the rotor is tailored according to the input material used and the throughput required to ensure maximum productivity and quality, while reducing wear on the rotor.
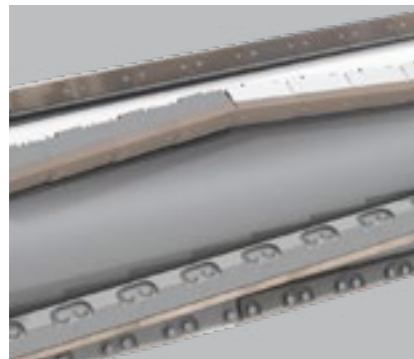
KNIFE GRADE

Different grades of knife can be used with this machine according to the input material being processed. This ensures optimum cutting of the material and less wear on the blades.

KNIFE HOLDER EXCHANGE SYSTEM

Two of the available rotors have a unique knife holder exchange system. This new design feature involves a clamping mechanism for the knife holders, which can be easily and quickly removed and exchanged quickly and easily, thus greatly reducing the machine downtime.
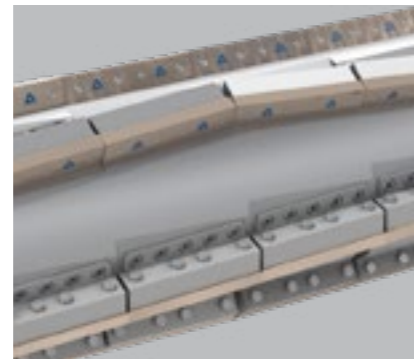
ROTOR COOLING

Some materials, especially plastics, can stick to the rotor as they heat up during the shredding process. The option of a water-filled cooling system in the rotor prevents this from occurring.
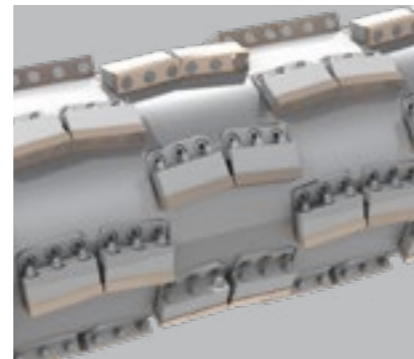
ADuro ROTOR INTEGRAL

- 6 or 7 rows
- Light design
- Welded knife holders
- Optimal cutting outline
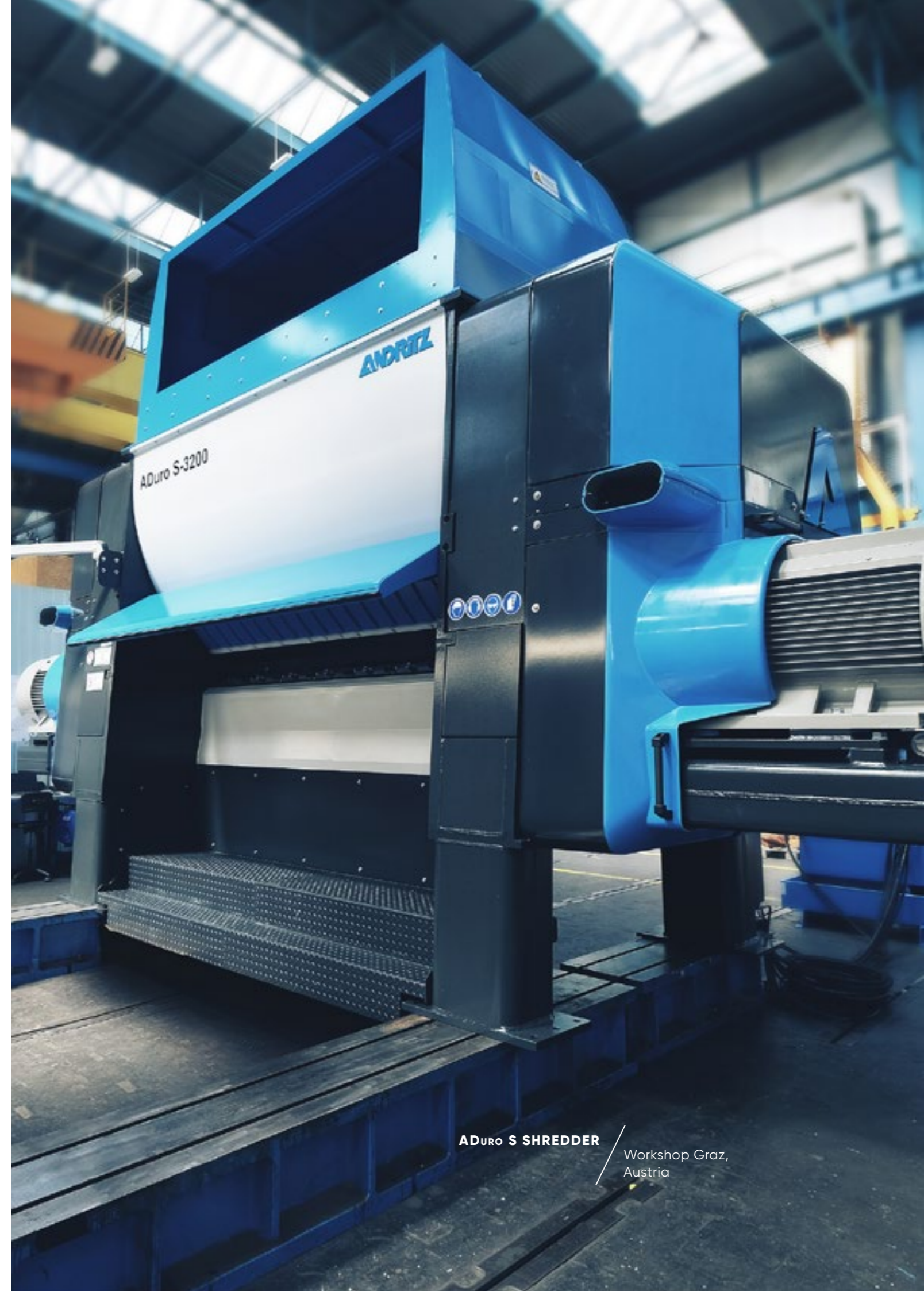- Perfect for RDF applications

ADuro ROTOR TOUGH

- 6 rows
- Easy knife change
- Screw-on knife holders
- Minimal rotor wear
- Perfect for RDF applications

ADuro ROTOR SWIFT

- 8 rows
- Easy knife change
- Screw-on knife holders
- Maximized efficiency
- Perfect for processing rough materials like hard plastic

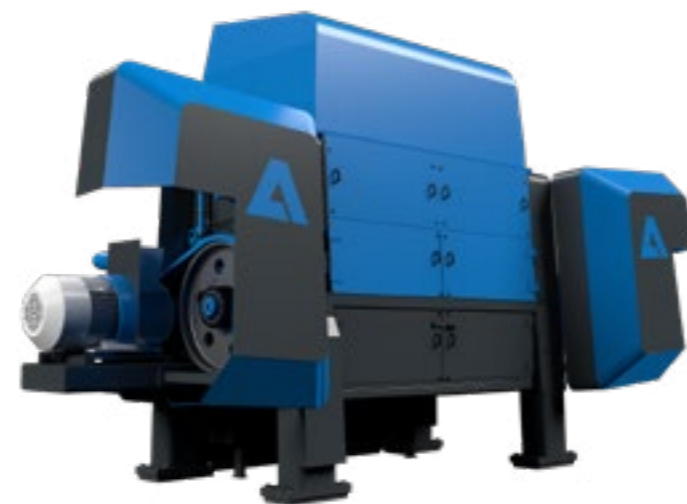**ADuro S SHREDDER** Workshop Graz, Austria

Powerful shredding, safe and easy maintenance

The compact and efficient design of the ADuro S shredder ensures easy access to the internal parts of the machine.

MAIN ADVANTAGES OF THE ADᴜʀᴏ S

- Large cutting width up to 3,200mm
- Low input energy and low power consumption
- High throughput and performance
- High availability and durability
- Flexibility of three different rotor types
- Knife holder exchange system available
- Easy knife gap adjustment
- Inside pusher
- Large maintenance openings for maintenance and repair
- IoT features

The ergonomic design of the shredder means easy access for cleaning, removal of impurities, fast exchange of parts and easy access for repair, making all general maintenance and replacement work fast and simple. Large maintenance openings mean that work can be carried out comfortably standing up and by more than one person at once.

SIZES AND TECHNICAL SPECIFICATION

	Operating speed [rpm]	Cutting diameter [mm]	Rotor length [mm]	Power [kW]	Tough rotor knives [no.]	Screen [mm]	Weight [t]
S-2000	320	785	2,000	2x132 – 2x160	60	15 – 100	27.0
S-2400	320	785	2,400	2x160 – 2x200	72	15 – 100	31.5
S-2800	320	785	2,800	2x200 – 2x250	84	15 – 100	35.0
S-3200	320	785	3,200	2x200 – 2x250	96	15 – 100	38.0

Optimize your recycling operation with Metris shredIQ

Metris shredIQ is a tool that combines the power of the well-proven ANDRITZ Digital Solutions and tailors those IIoT technologies to the recycling industry. It helps in achieving higher machine availability and maximizing performance based on the Metris All-in-one Platform.

Metris shredIQ was developed to solve today´s digitalization challenges in the recycling industry. Tailored to single customer needs, Metris shredIQ can be configured and adapted individually to meet the requirements of a single unit application or a complete recycling plant.

To exploit the capabilities of existing systems, Metris shredIQ measurably enhances plant performance by using valuable data in the most efficient way. With this cutting-edge approach, we can provide a completely new user experience with comprehensive product support and ensure smoothly operating machinery.

Metris shredIQ enables immediate assistance with smart documentation via the My Equipment app as well as efficient commissioning support. By using data analytics and condition monitoring with the Metris Vibe sensor, processes and operations are monitored and visualized based on significant KPIs, including the option to automatically generate reports. The partIQ feature additionally offers access to the Metris Spare Parts Catalog, where customers can request immediate offers for required spare and wear parts for any machine configuration. By using Metris

applications, plant operators can increase the overall efficiency of their equipment and reduce the risk of operating errors.

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)

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 customer 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 the implementation of our latest IIoT solutions, we are available to keep operations running smoothly.

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