



RECYCLING

ADURO S SHREDDER

THE NEXT GENERATION IN
SECONDARY SHREDDING

ANDRITZ

ENGINEERED SUCCESS

AUGMENTED REALITY CONTENT

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INPUT MATERIALS

- Refuse-derived fuels
- Municipal solid waste
- Industrial waste
- Solid recovered fuels
- Plastic waste

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

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 of 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 and a reverse function for cleaning, thus improving uptime of the shredding process.

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



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

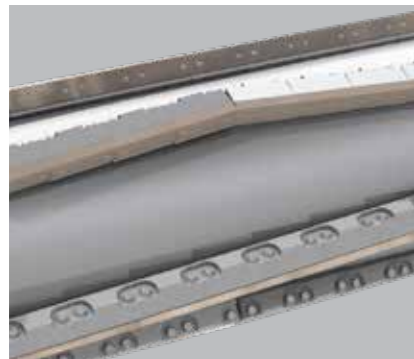
Different grades of knife can be used with this machine according to the input material being processed. This ensures optimum cutting of the material and less wear on the blades.

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.

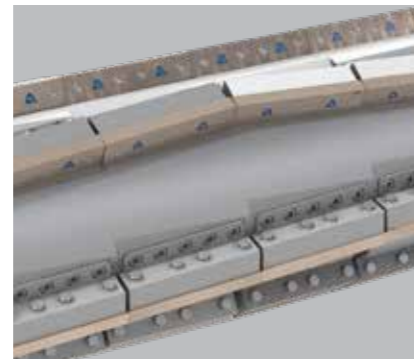
ROTOR COOLING

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.



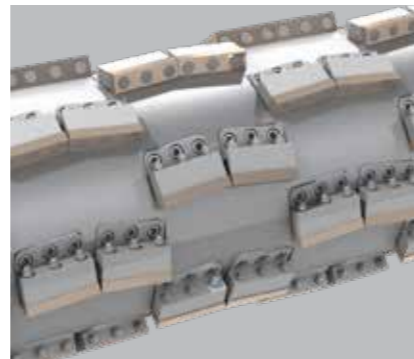
ADuro ROTOR INTEGRAL

- 6 rows with 96 knives
- 0.1 mm knife gap
- Light design
- Welded knife holders
- Optimal cutting outline
- Perfect for RDF applications



ADuro ROTOR TOUGH

- 6 rows with 96 knives
- 0.3 mm knife gap
- Easy knife change
- Screw-on knife holders
- Minimal rotor wear
- Perfect for RDF applications



ADuro ROTOR SWIFT

- 8 rows with 96 knives
- 0.1 mm knife gap
- Easy knife change
- Screw-on knife holders
- Maximized efficiency
- Perfect for processing rough materials like hard plastic



ADuro S SHREDDER

Workshop Graz,
Austria

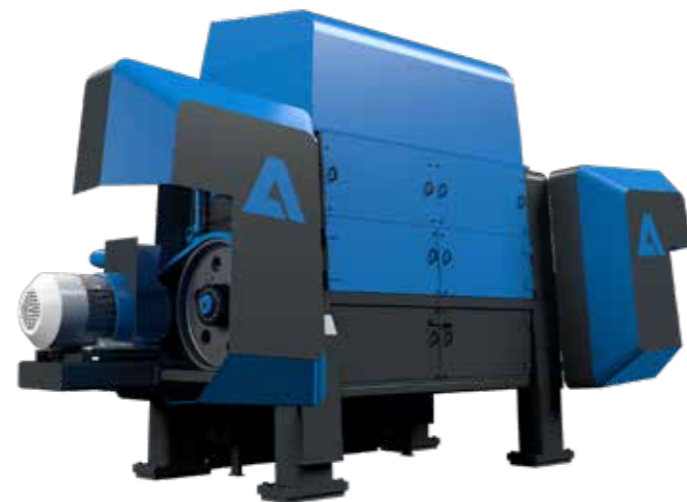
Powerful shredding, safe and easy maintenance

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

MAIN ADVANTAGES OF THE ADuro S

- Large cutting width of 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]	Teeth [no.]	Screen [mm]	Weight [t]
S-2200	320	785	2,200	2x132 - 2x160	64	< 60	26.0
S-3200	320	785	3,200	2x200 - 2x250	96	< 60	36.5



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 UX 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)



GLOBAL TECHNOLOGY – LOCAL SERVICE

ANDRITZ Recycling is more than an equipment supplier. We develop recycling solutions that pay off for our customers. Our knowledge and expertise are available to help customers truly optimize their operations. As a part of the international ANDRITZ GROUP, we are backed by the strength of an extensive global network of service specialists, machining centers, rebuild shops, and service locations. From the supply of spare parts, routine work during a scheduled shutdown, to quick response during a disruption, we are available to keep operations running smoothly.

AUSTRIA

ANDRITZ AG
Graz and Vienna
p: +43 316 6902 0

GERMANY

ANDRITZ MeWa GmbH
Gechingen and Freiberg
p: +49 7056 925 0

SWEDEN

ANDRITZ AB
p: +46 660 29 53 34

FINLAND

ANDRITZ OY
p: +358 0 20 450 5555

RUSSIA

LCC ANDRITZ
p: +7 812 315 0863

CHINA

ANDRITZ (CHINA) Ltd.
p: +86 757 8296 9222

JAPAN

ANDRITZ K.K.
p: +81 3 3536 9700

INDIA

ANDRITZ Technologies PVT Ltd.
p: +91 11 49372900

BRAZIL

ANDRITZ Brasil Ltda.
p: +55 41 2103 7601

USA

ANDRITZ Inc.
p: +1 518 683 5793

CANADA

ANDRITZ Ltd.
p: +1 514 631 7700



SEE THE PLANTS IN ACTION

RECYCLING@ANDRITZ.COM
[ANDRITZ.COM/RECYCLING](https://www.andritz.com/recycling)

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