

REDUCE.

REUSER SD 1300

Universal shredders

REACT.



RECOVER.

Discover power and efficiency in a single step with our top-of-the-line shredders! With advanced technology and robust design, our shredders provide exceptional efficiency in processing a wide range of materials. Take control and set new standards. Don't follow - be a leader with our premium equipment, built for durability and efficiency.



Basic information



- ✓ **Robust and Compact Design**
- ✓ **Single-rotor shredder**
- ✓ **Material feeding via excavator, forklift, or hydraulic lifting arm**
- ✓ **Siemens® PLC control unit**
- ✓ **ReSmart™ intelligent control system (optional remote access)**
- ✓ **ReBoost™ function for above-standard pusher plate speed**
- ✓ **ReMotion™ segmented floor enables controlled movement of the hydraulic pusher plate and reduces the risk of material jamming**
- ✓ **Hydraulic power unit with 120 L oil capacity**
- ✓ **Rotor bearings mounted outside the machine housing**
- ✓ **Suitable for both hard solid and soft wood**
- ✓ **Above-standard productivity**
- ✓ **Cutting knives made of hardened steel**
- ✓ **High-quality components for extended service life**
- ✓ **Option to connect to a local suction system**
- ✓ **Option for material discharge via RZC 350 conveyor belt**
- ✓ **Homogeneous output granulate with Hardox® screen**
- ✓ **Vibration-damping feet**
- ✓ **Powder-coated frame (standard ROBUST colors – RAL 6017, RAL 7016)**
- ✓ **12-month warranty, extendable to 24 months**

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Product overview



Advantages

The system features a V-shaped hopper for efficient material flow, ensuring smooth operation. Designed for easy installation and fully automatic operation, it requires minimal maintenance. Key components are securely protected within the shredder housing, enhancing durability and reliability.

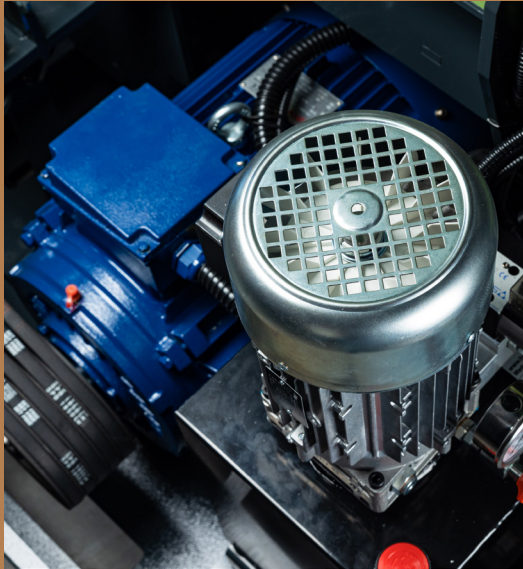
ReSmart™ intelligent control

The ReSmart™ system optimizes shredder performance, improving efficiency and reliability while reducing energy consumption. It automatically detects the type and characteristics of the material being processed. Predictive maintenance support ensures timely servicing and optimal performance. The system is designed for simple integration with other systems, allowing efficient workflow.



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Product overview



ReBoost™

The ReBoost™ function significantly reduces material shredding time, leading to improved productivity and lower production costs. Its ability to quickly and efficiently move the hydraulic plate in the return stroke shortens cycle times, enabling faster shredding and increasing the processing capacity of waste materials.

ReMotion™

The ReMotion™ function provides users with complete control over the movement of the hydraulic pusher plate. This ensures exceptional precision in waste material shredding, increases productivity, and reduces energy consumption. A precisely designed segmented construction of the shredding chamber prevents material jamming, enhancing safety and reducing downtime caused by material blockages.



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Product overview



W shaped rotor

To ensure optimal performance, the machine is designed for optimized cutting efficiency and even material distribution, preventing uneven wear and blockages. Its advanced design helps prevent material accumulation and reduce heat generation, enhancing durability and reliability. Especially suited for soft and bulky materials, it guarantees smooth and efficient processing.

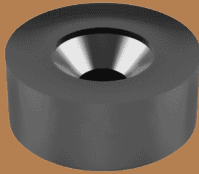
Solid rotor

For demanding applications, the machine delivers maximum cutting power and high throughput, ensuring efficient processing. Built with superior durability and wear resistance, it withstands even the toughest conditions. Designed for heavy-duty applications, it offers low maintenance and a long service life, making it a reliable and cost-effective solution.



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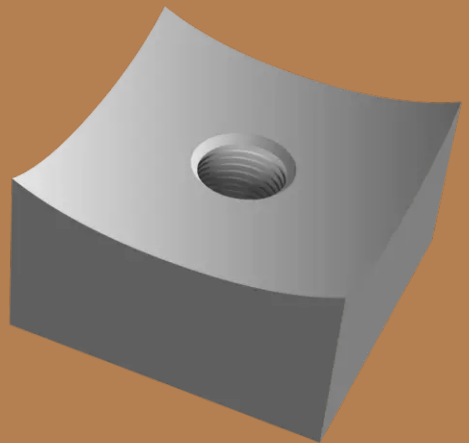
Round cutting knives



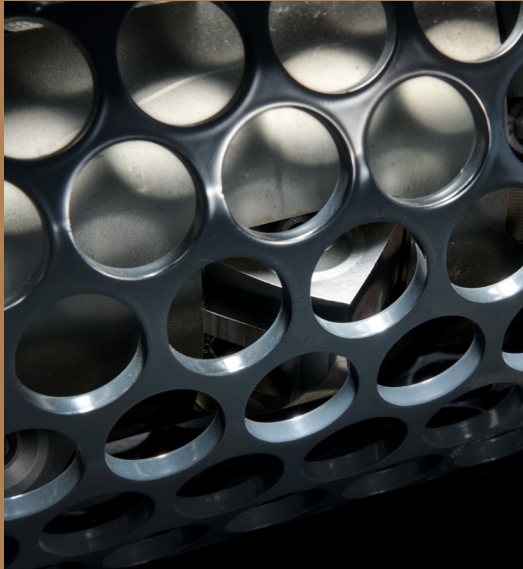
The round knife has medium cutting efficiency, suitable for soft materials like soft waste, elastic materials, and film, with uniform force distribution and knives rotatable up to 8 times, offering longer service life, even load distribution, and reduced risk of damage, but lower cutting precision and less efficiency on harder materials.

Cutting knives

The durable construction and optimized knife placement ensure efficient and reliable shredding. A balanced design supports continuous material flow, reducing downtime and improving performance. Equipped with 30 mm reversible cutting knives, the rotor extends blade life and maintains consistent cutting efficiency.



Product overview



Hardox® sieve

The Hardox® sieve ensures exceptional wear resistance and durability, even in demanding applications. With interchangeable sieve sizes, it provides flexibility for various materials while maintaining consistency in performance. Designed for enhanced productivity, it extends the machine's lifespan, reducing downtime and maintenance costs.

Material discharge options

The system offers flexible material discharge solutions tailored to your process needs. Depending on the application, shredded material can be discharged via a conveyor belt, a screw conveyor, or through suction. Each option ensures efficient, continuous flow of material for streamlined handling and further processing.



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Product overview



Protected components

The key components are securely integrated within the shredder housing, offering numerous advantages. This design shields them from dust, dirt, and external elements and optimizes the machine's compact structure. Service opening ensures easy access for maintenance, simplifying upkeep and prolonging the machine's lifespan.



V shaped hopper

The V-shaped hopper without obstacles ensures smooth material flow, reduces blockages, and improves discharge rates. It minimizes residue, lowers maintenance costs, and handles bulk materials efficiently. The gravity-assisted flow reduces energy use, while the open design allows for easy cleaning and inspection.



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Suitable Material for Shredding



Wood waste



Hard plastics



Cardboard



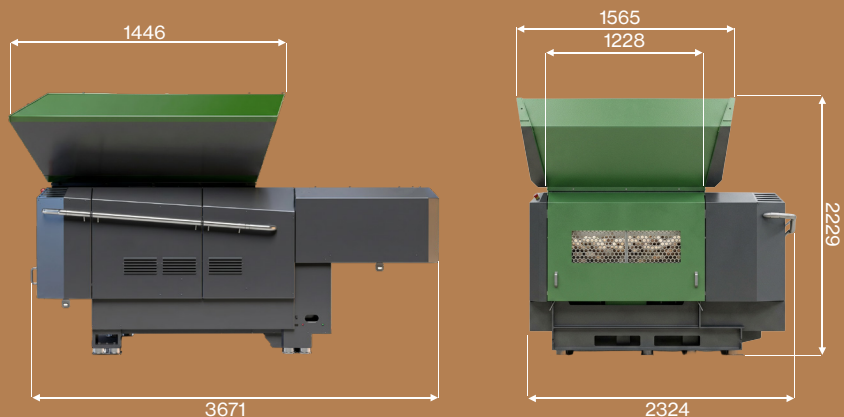
Paper waste



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TECHNICAL DATA

REUSER SD 1300 universal shredder



Rated capacity	kW	37 / 45 / 55
Cutting shaft	No.	1
Rotor length	mm	1262
Number of knives	Pcs.	40-60
Rotor diameter	mm	320
Rotor speed	rpm	80 - 120
Hopper opening on the shaft	mm	1270 x 1228
Available screen sizes	mm	10/15/16-12/20-15/30-20/30/40/50
Hidraulic oil capacity	l	120
Dimensions (H / W / L)	mm	2229 / 2324 / 3671
Weight	kg	5250

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Frequently asked questions



Which materials are suitable for shredding?

Suitability depends on the shredder type. Individual models are designed to process different kinds and quantities of waste material.

What is the size of the final material?

The output size depends on the selected screen and knife configuration, typically ranging between 8 and 50 mm.

Can the shredder be adjusted for different materials?

Yes. By selecting the appropriate knives, rotor speed, and screen size, the shredder can be adapted to specific material requirements.

How often is maintenance required?

A regular technical inspection is recommended after a certain number of operating hours. Knives should be checked and rotated or replaced when necessary.

Does the shredder require additional cooling?

Not under standard operating conditions. However, an oil cooler is recommended for higher load applications.

Can the shredder be integrated into an existing production line?

Yes. The shredder is designed for easy integration into automated systems or waste handling lines.

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SUSTAINABILITY ASPECT

The company ROBUST in its mission represents three fundamental pillars of the sustainability aspect: care for people and the common good of society, commitment to environmental protection, focus on economic contribution to the overall economy.

The fundamental pillars are the core of our identity and way of operating, as they reflect our commitment to sustainability in all aspects of our business. With these fundamental principles, we strive to develop innovative approaches and implement responsible practices that not only support our success but also create a positive impact on communities, the environment, and the economy.



INNOVATIVE SOLUTIONS

We strive to ensure that our products are characterized by innovations, patented solutions, and design protections. Our commitment to innovative system solutions is reflected in the meticulous planning and adaptation of the entire process, from idea to execution, utilizing the latest technologies to enhance our products. Dedication to continuous progress has already resulted in an extensive range of domestic and international awards for quality and innovation.

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