

UNTHA

The reliable brand!



Performance champion in secondary shredding

SR CLASS

High-performance single-shaft shredder for the production of high-quality alternative fuels



SR Class

The most powerful secondary shredder for the production of high-quality alternative fuels

In alternative fuel processing, the final shredding stage determines the quality of the material fed into the main burner. Many plants can only achieve the required particle size by operating at high speeds, which results in enormous wear costs and high risks of malfunctions – leading to unplanned downtime, inconsistent particle sizes, and time-consuming service calls.

The new SR class – SR2000XC and SR3000XC – redefines this final comminution process: As stationary secondary shredders, they process pre-shredded, screened, and ferrous/non-ferrous-separated material into homogeneous feedstock for the main burner. The shredder is characterised by maximum produc-

tivity, optimal material quality, and maximum availability, it operates with low noise and vibration even through intense, continuous operation. The SR class achieves its exceptional performance through the largest rotor diameter on the market (1,000 mm), a generously sized screen surface, and low rotational speed. Thanks to its efficient self-feeding mechanism, the secondary shredder requires no feed pusher. The newly developed FlowGuide ensures a stable material flow inside the cutting chamber, resulting in homogeneous, well-defined output material that is ideal for thermal recovery as a substitute fuel.

The secondary shredder is powered by the beltless UNTHA Power Drive with planetary gearbox and

maintenance-free safety clutch. The elimination of tensioning technology, shaft stubs, and flywheels reduces the number of wear-prone components.

All process and machine data are available in real time via the MyUNTHA customer platform, maintenance cycles are displayed clearly and spare parts can be easily identified with the integrated 3D catalog and ordered directly online.

The SR class delivers exactly what is required for secondary shredding or RDF production: high throughput, maximum plant availability, and a homogeneous output material that can be used as primary fuel.

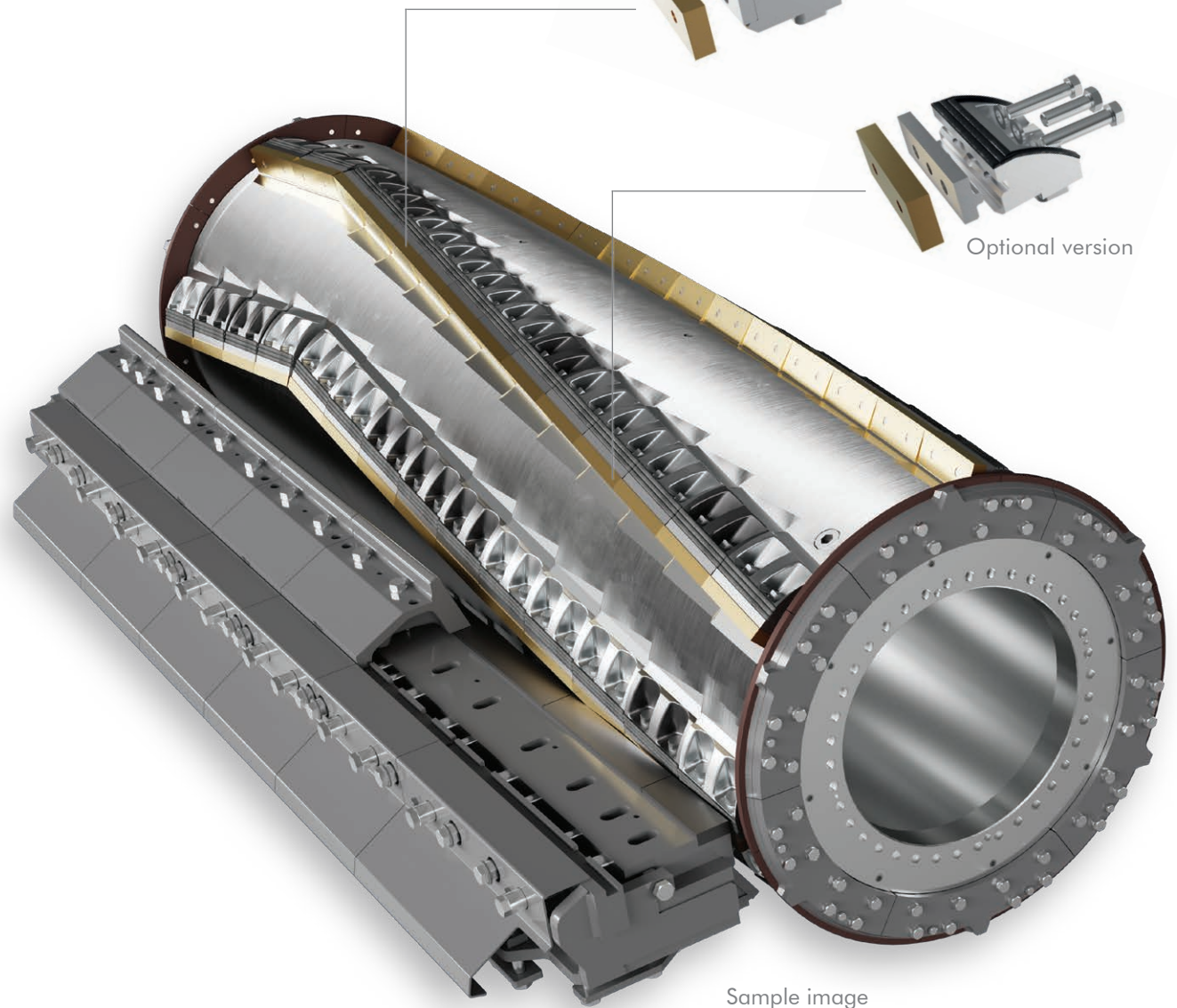
XC Cutting System

The XC cutting system was specifically designed for the processing of pre-treated or iron-separated materials. The cutting system features welded, wear-resistant blade holders that offer a high level of resistance to contaminants. Both the rotor and stator blades can be reused up to four times, significantly extending service life. Optional blade holders with bolted wear plates, adjustable stator blades and the absence of a secondary cutting bar further reduce wear and significantly lower maintenance requirements for the machine.

Materials:

- » Pre-shredded, pre-treated commercial and industrial waste, household waste, bulky waste, mixed waste and production waste

Achievable particle sizes [mm]:



SR Class

Precise shredding. Minimal maintenance. Unmatched productivity.

Integrated Transmission Oil Cooling

The transmission oil cooling system operates as a passive cooling system without external oil circulation. It keeps the transmission oil within the optimal temperature range, ensuring maximum process reliability and consistently high throughput during demanding continuous operation.

Cost-Effective UNTHA Power Drive

The beltless asynchronous direct drive with planetary gearbox and maintenance-free safety clutch operates without tensioning mechanisms, shaft stubs, or a flywheel. Mechanical wear is reduced, and maintenance requirements are significantly minimised.



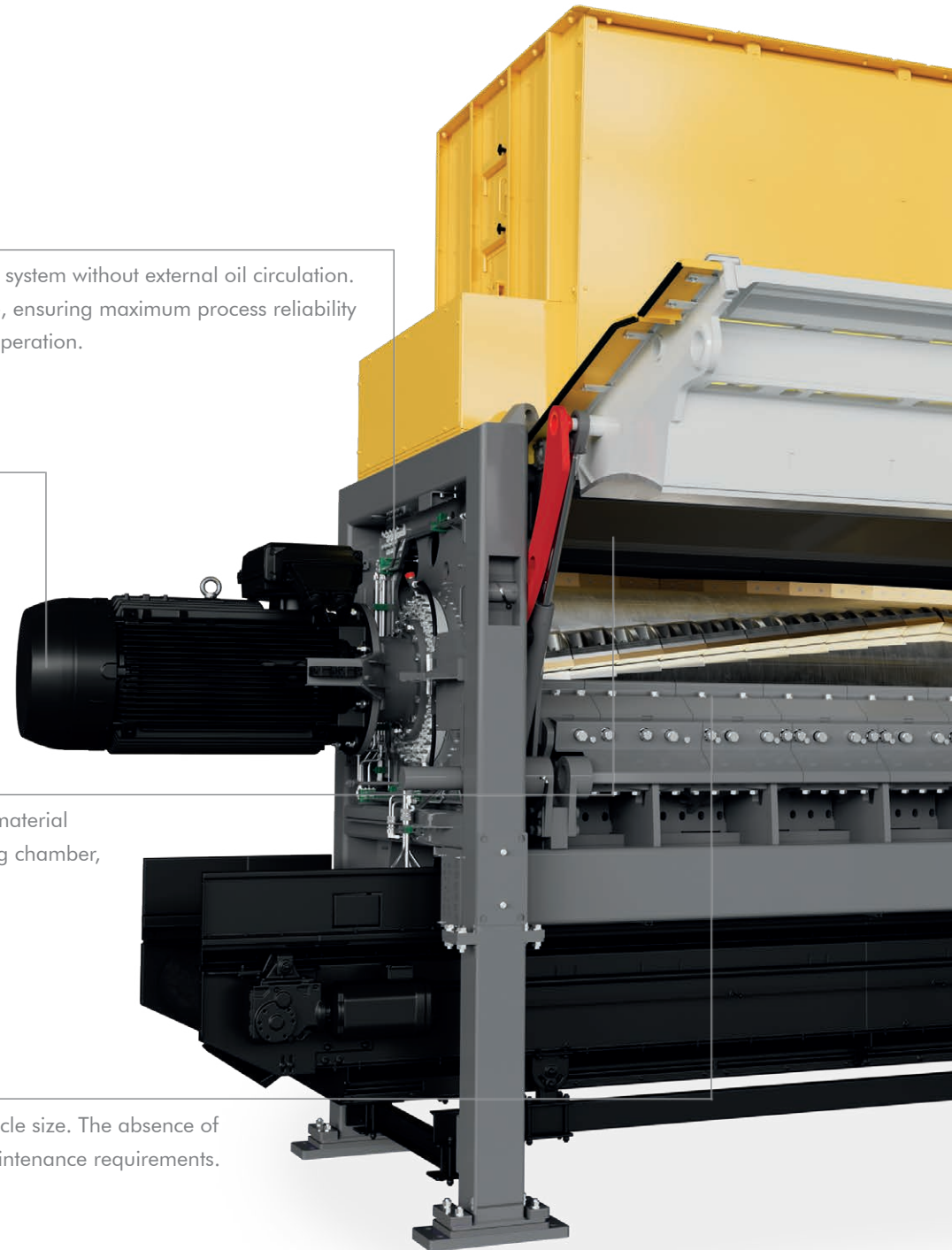
Controlled Material Flow

The FlowGuide in the cutting chamber prevents premature material overflow, reduces the dwell time of the material in the cutting chamber, and ensures optimal material flow.



Adjustable Stator Blades

Adjusting the cutting gap ensures a consistent particle size. The absence of a secondary cutting bar reduces the machine's maintenance requirements.





Sample image SR2000/3000XC

Enclosed Feed Hopper

A three-sided, enclosed feed hopper with a strip curtain minimises dust emissions during feeding and improves working conditions in the facility.

Outward-Opening Maintenance Door

The outward-opening maintenance door provides user-friendly access to the cutting mechanism. This allows contaminants to be quickly removed and maintenance tasks to be performed efficiently.



Defined Particle Size

A variety of bolted perforated screen trays enable a uniform and precisely defined particle size between 10–60 mm, depending on the chosen screen. Designed for efficiency, the quick-change screen system allows screen segments or cassettes to be replaced quickly and easily.



User-Friendly Display

The shredder is operated via a 7-inch colour display and features an intuitive interface.

Options

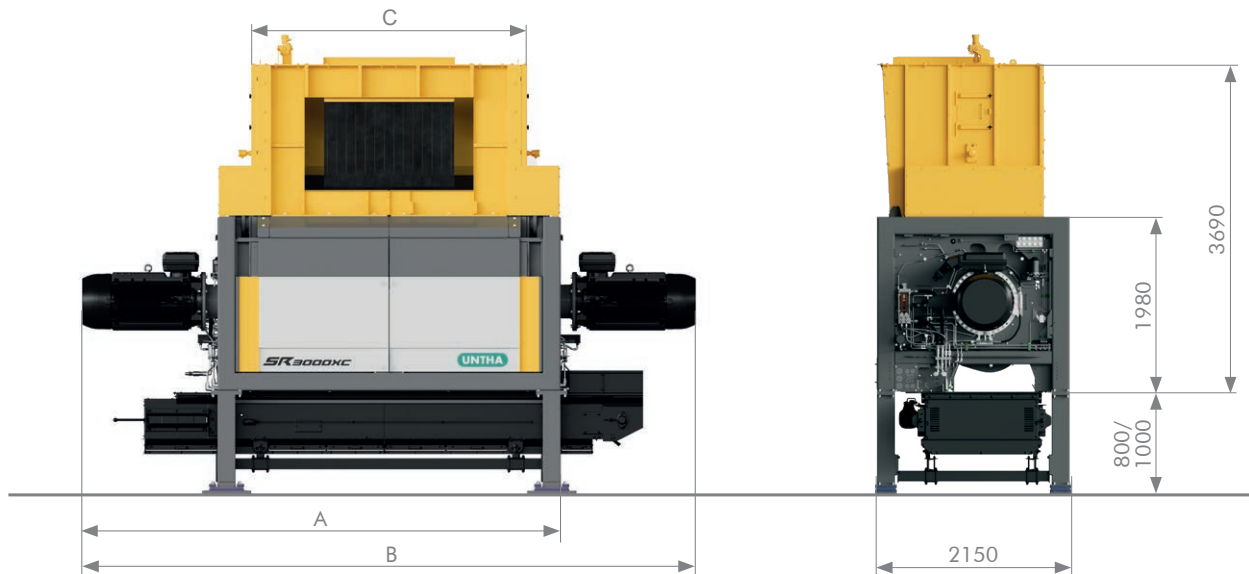
Extras

- » **Fire Protection System:** For early detection and targeted containment of fires in the shredder and on the conveyor belt.
- » **Noise Reduction Package:** Engine covers and integrated insulation to reduce noise emissions and improve working conditions.
- » **Patented Rotor Cooling (AT 528392):** Stabilises the rotor surface temperature and reduces steam formation with heat-sensitive materials.
- » **Quick-change screen system:** With the hydraulic screen removal system, screen changes can be performed easily, quickly, and by a single person.
- » **Corrosion protection package:** Wear-resistant, replaceable plastic liners provide long-term protection against corrosion for the inner walls of the shredder and hopper against corrosion.
- » **Internal feed pusher:** The pusher ensures continuous material feed and a consistently high throughput.

Services

- » **UNTHA GENIUS:** The digital assistance system analyses machine data in real time and supports process optimisation.
- » **UNTHA Service Level Agreements:** Professional support ensures that the shredder's performance is maintained and processes always run reliably and efficiently.

SR Class



	SR2000XC	SR3000XC
A	4.390	5.370
B	5.910	6.880
C	2.870	3.850

All dimensions in mm

TECHNICAL DATA		SR2000XC	SR3000XC
Drive power	kW	1 x 250	2 x 250
Number of blades	pcs.	60	84
Rotor diameter	mm	1000	
Rotor length	mm	2000	3000
Rotor speed	rpm	approx. 250	
Weight	t	approx. 24	approx. 27



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5 reasons to choose UNTHA



Customised, long-lasting shredding solutions



Premium products developed and manufactured in Austria



All-encompassing expertise, from development to production, under one roof



Reliable customer service with the best technical know-how



More than 10,000 satisfied reference customers worldwide

We deliver what we promise

Since our founding in 1970, we've followed our promise of being "the reliable brand", which applies to every product and service that UNTHA delivers.

We work hard to consistently outperform our competitors, and provide customers with the confidence that – in choosing UNTHA – they have made the best decision for their business.

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