

UNTHA

The reliable brand!

UNTHA
Power
Drive
Edition



XR CLASS

Single-shaft shredder for efficient coarse, medium and fine shredding as well as single-stage processing of homogenous, bulky materials.

XR Class with UNTHA Power Drive

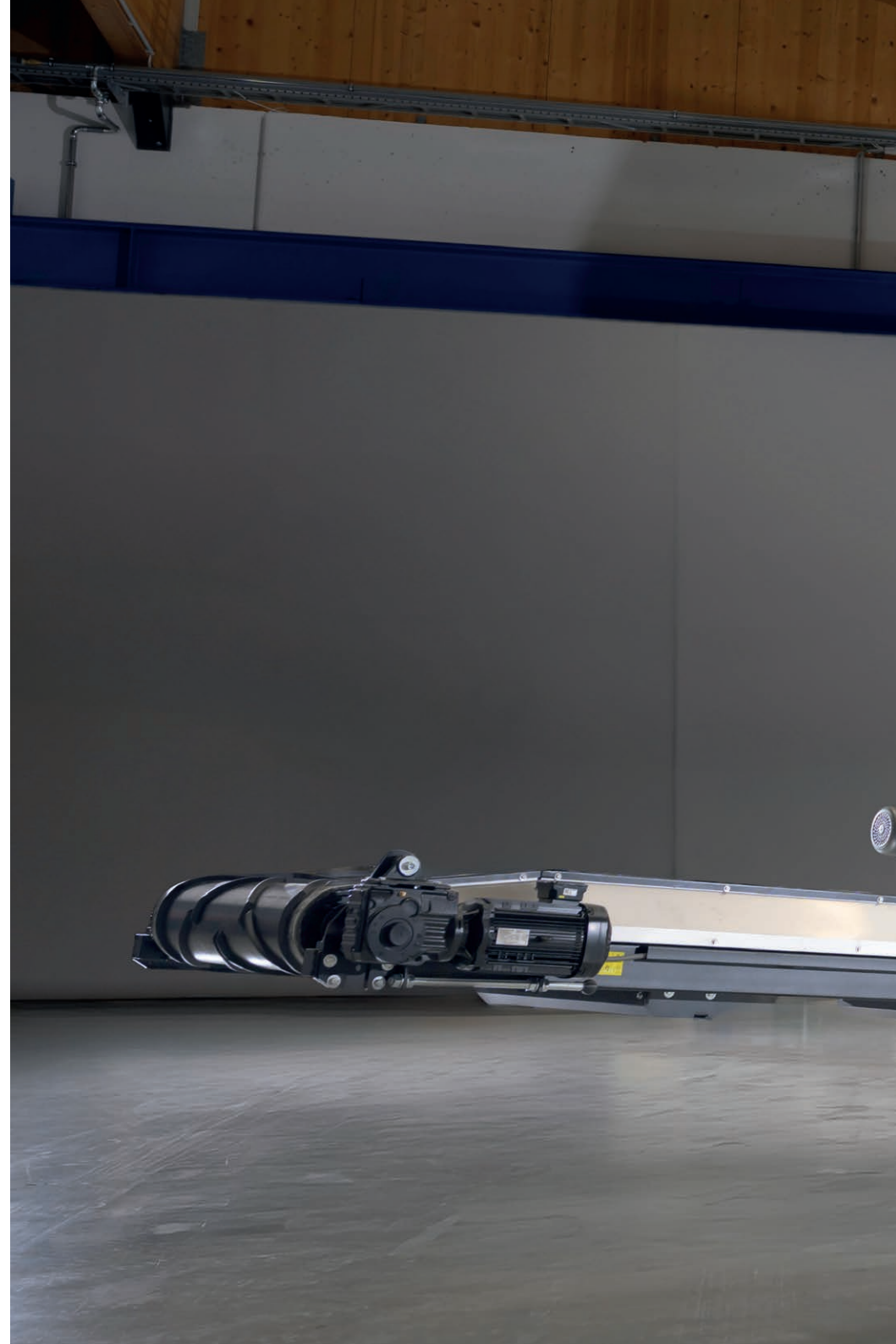
High throughput. Low maintenance. Cost-effective.

The XR class stands for reliable processing across a wide variety of material streams – from coarse pre-shredding to flexible single-stage processing. With the UNTHA Power Drive, this proven machine platform is enhanced with a powerful upgrade.

The beltless direct drive enhances the XR class with a robust and low-maintenance drive solution. Available across all stationary and semi-mobile XR machines, this technology ensures efficient power transmission while reducing maintenance requirements. This drive version is well suited for high throughput applications involving homogeneous, voluminous materials that are processed to a defined particle size.

The beltless direct drive transmits power directly to the cutting process via a planetary gearbox integrated into the rotor. An optional low-maintenance safety clutch protects the cutting system and drive train from damage caused by foreign objects.

This results in a consistently advanced XR class that combines proven shredding technology with a cost-efficient, low-maintenance drive solution. The outcome is a high-performance, complete package that ensures efficient processing and reliable operation.





UNTHA

XR3000C
mobil-e

DANGER STAND CLEAR 10m



XR-RC

Tireless. Unwavering. The uncompromising pre-shredder for any challenge.

The XR-RC is a powerful single-shaft shredder and is ideally suited to the pre-shredding of a wide variety of materials. It delivers efficient volume reduction of bulky waste and reliable material preparation ahead of sorting systems. Thanks to its robust construction, this shredder operates with consistent reliability – even under intensive, continuous operation. Capable of processing materials such as bulky waste, scrap wood, commercial and industrial waste, and household waste, this machine produces defined particle sizes between 100–300 mm.

The heart of the shredder is the RC cutting system: It

operates by cutting and tearing, and the special tooth design ensures aggressive self-feeding of the material. The electric direct drive transmits power straight to the rotor, delivering tremendous shredding force.

The low-speed rotor ensures trouble-free and long-lasting operation while remaining highly resistant to foreign objects, which can be removed quickly and easily via the outward-opening maintenance hatch. Low-maintenance components and blades that can be re-welded multiple times, significantly reduce operating costs and easily accessible service and maintenance points minimise downtime, simplify

work, and increase machine availability. Depending on the application requirements, the XR-RC is available as a stationary or semi-mobile version with a crawler chassis. This allows operators to benefit from maximum flexibility in choosing the location of operation.

The shredder is fully integrated into the UNTHA customer portal MyUNTHA. Operators can access real-time process and machine data at any time, receive automated maintenance reminders, and quickly identify spare parts via the integrated 3D spare parts catalog.

Reliable pre-shredding

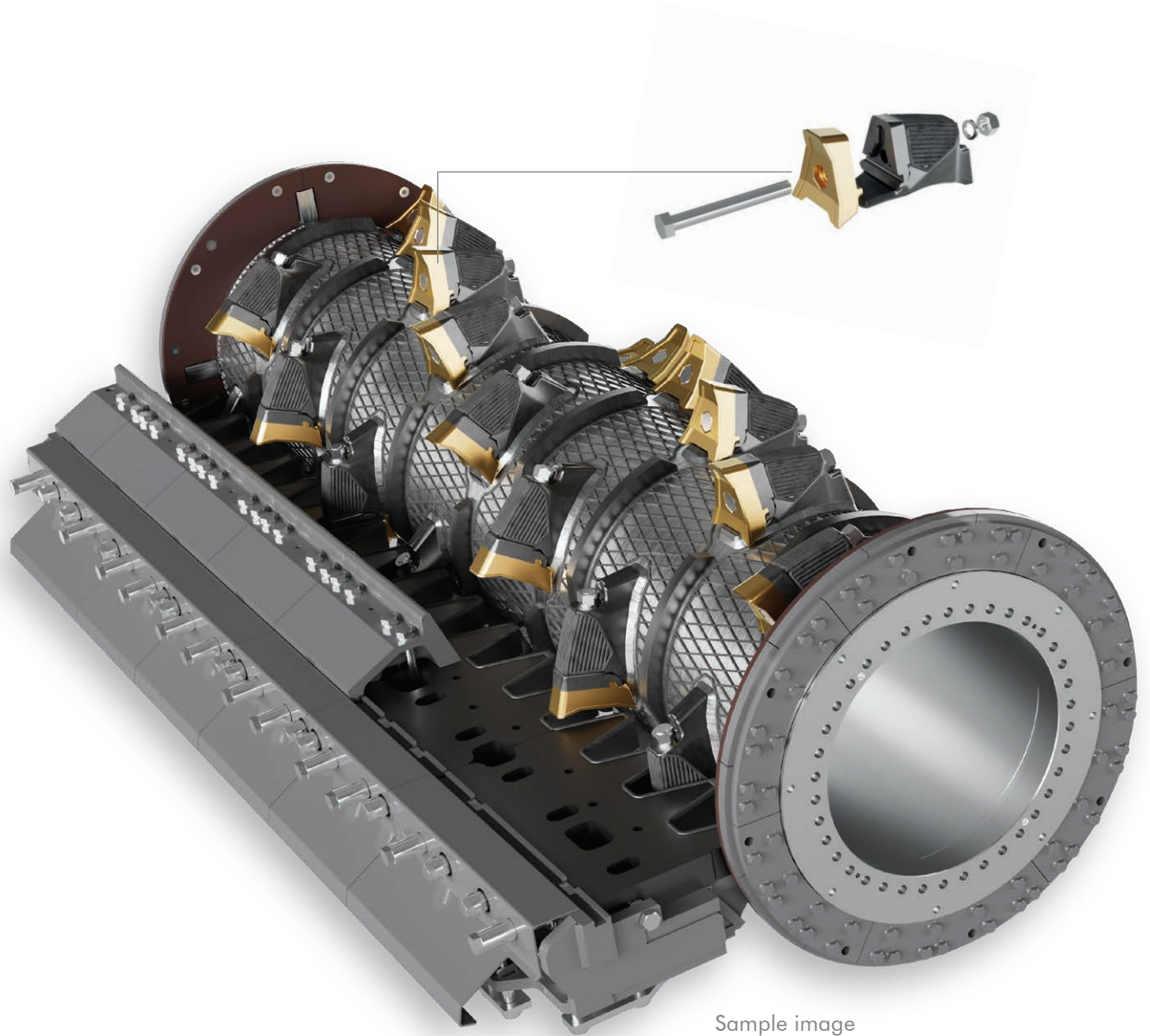
RC Cutting System

The RC cutting system operates by both cutting and tearing, ensuring aggressive self-feeding of the material. This makes the XR-RC ideal for the coarse pre-shredding of various material streams and throughput rates of up to 70 t/h. Both blade and stator bars can be re-welded at the end of their service life, thereby reducing operating costs.

Materials:

- » Commercial and Industrial waste
- » Household waste
- » Bulky waste
- » Waste wood and pallets
- » Production waste
- » Plastic bales
- » and much more

Achievable particle sizes [mm]:





XR-C

A single pass. Maximum efficiency. A pioneer in single-stage treatment.

The XR-C is a pioneer in single-stage processing and was developed for companies looking to shred a variety of untreated materials to defined particle sizes in a single process step. This machine is designed for high throughputs and intensive multi-shift operation in industrial facilities.

This powerful single-shaft shredder produces a defined particle size in a single pass, producing material suitable for a calciner or optimal feedstock for subsequent sorting systems. The XR-C reliably processes a wide range of materials, including bulky, and household waste; scrap wood and pallets, com-

mercial and industrial waste, tyres and rubber, pulper ropes, production waste, plastic bales, cables, electronic scrap, composite materials, as well as non-ferrous metals and aluminum mixtures. Defined fraction sizes ranging from 45 to 150 mm can be achieved.

The C-cutting system, in combination with the pressure feed pusher, ensures aggressive material feed and uniform shredding – even with tough or bulky materials. The electric direct drive ensures energy-efficient and low-maintenance operation. The slow-running rotor, combined with a safety clutch, reliably protects

the drive from damage. Contaminants can be quickly and easily removed via the outward-opening maintenance hatch. The XR-C is available as a stationary or semi-mobile model.

The shredder is fully integrated into the UNTHA customer portal MyUNTHA. Operators can access real-time process and machine data at any time, receive automated maintenance reminders, and quickly identify spare parts via the integrated 3D spare parts catalog.

Efficient single-stage shredding to a specified particle size

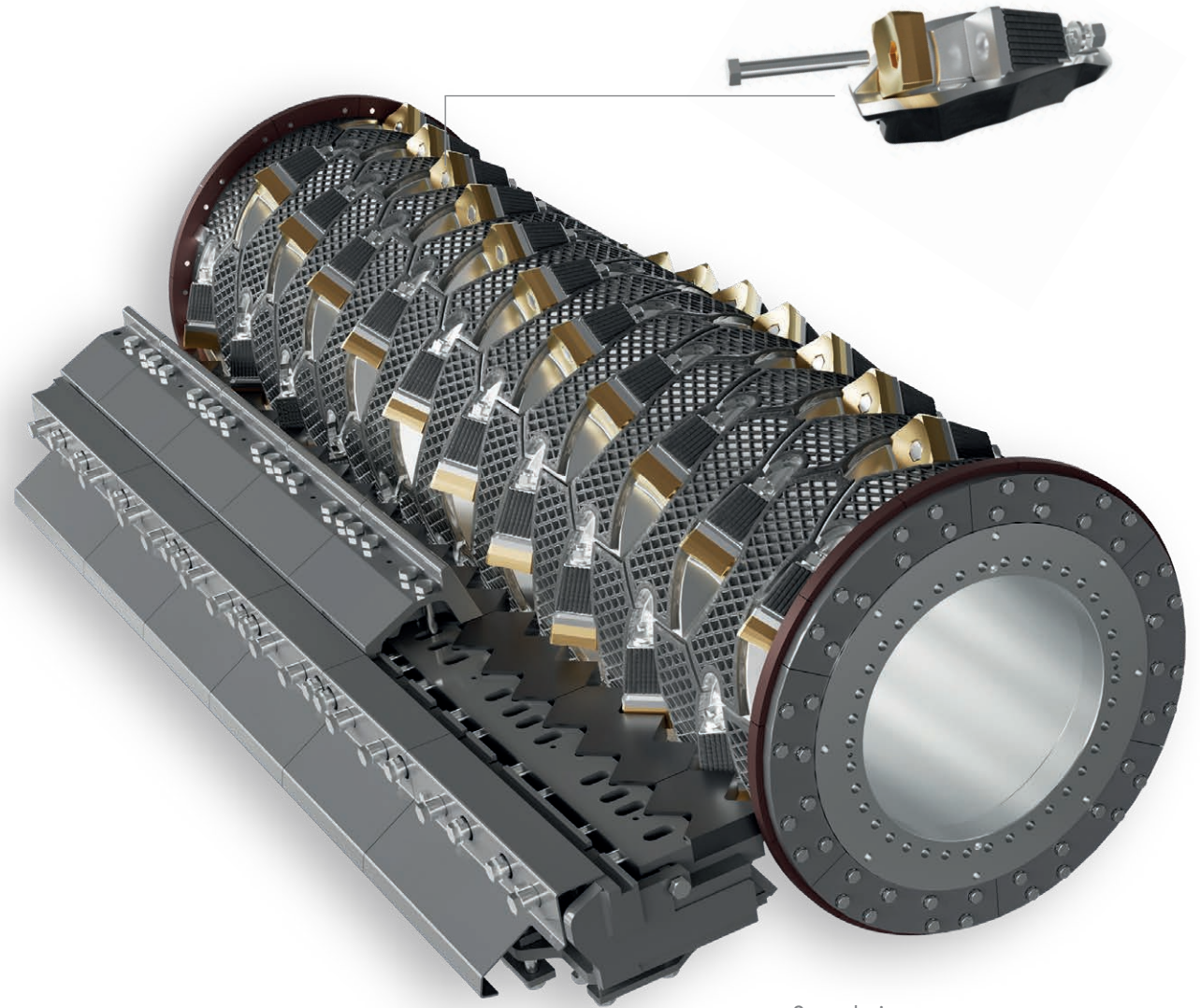
C Cutting System

The C-Cutting System has been developed for the single-stage processing of various material streams to a defined particle size. Depending on the requirements and selected screen diameter, up to four rows of blades on the rotor deliver high throughputs. The reversible cutting plates, which can be reused up to four times, and stator bars can be easily and quickly replaced.

Materials:

- » Commercial and Industrial waste
- » Household waste
- » Bulky waste
- » Waste wood and pallets
- » Production waste
- » Plastic bales
- » and much more

Achievable particle sizes [mm]:



Sample image



XR-XC

Precise processing. Substitute fuel in a single step.

The XR-XC has been developed for companies that want to efficiently produce high-quality alternative fuels in a single-stage process. This shredder processes pre-treated, contaminant-free materials as well as plastic bales in one pass, producing a homogeneous fraction ranging from 10 to 80 mm, while consistently delivering high throughput.

The XC cutting system is equipped with an integrated pressure feed slide, ensuring controlled and uniform material feed. The robust machine design enables

reliable continuous operation even under demanding conditions. The electric direct drive ensures powerful shredding and high throughput. Contaminants can be removed with ease via the outward-opening maintenance hatch. Accessible service and maintenance points simplify maintenance work, reduce downtime, and increase machine availability.

The XR-XC is available as a stationary or semi-mobile version with a crawler chassis, depending on requirements, offering maximum flexibility in site selection.

The shredder is fully integrated into the UNTHA customer portal MyUNTHA. Operators can access real-time process and machine data at any time, receive automated maintenance reminders, and quickly identify spare parts via the integrated 3D spare parts catalog.

Perfect single-stage fine shredding

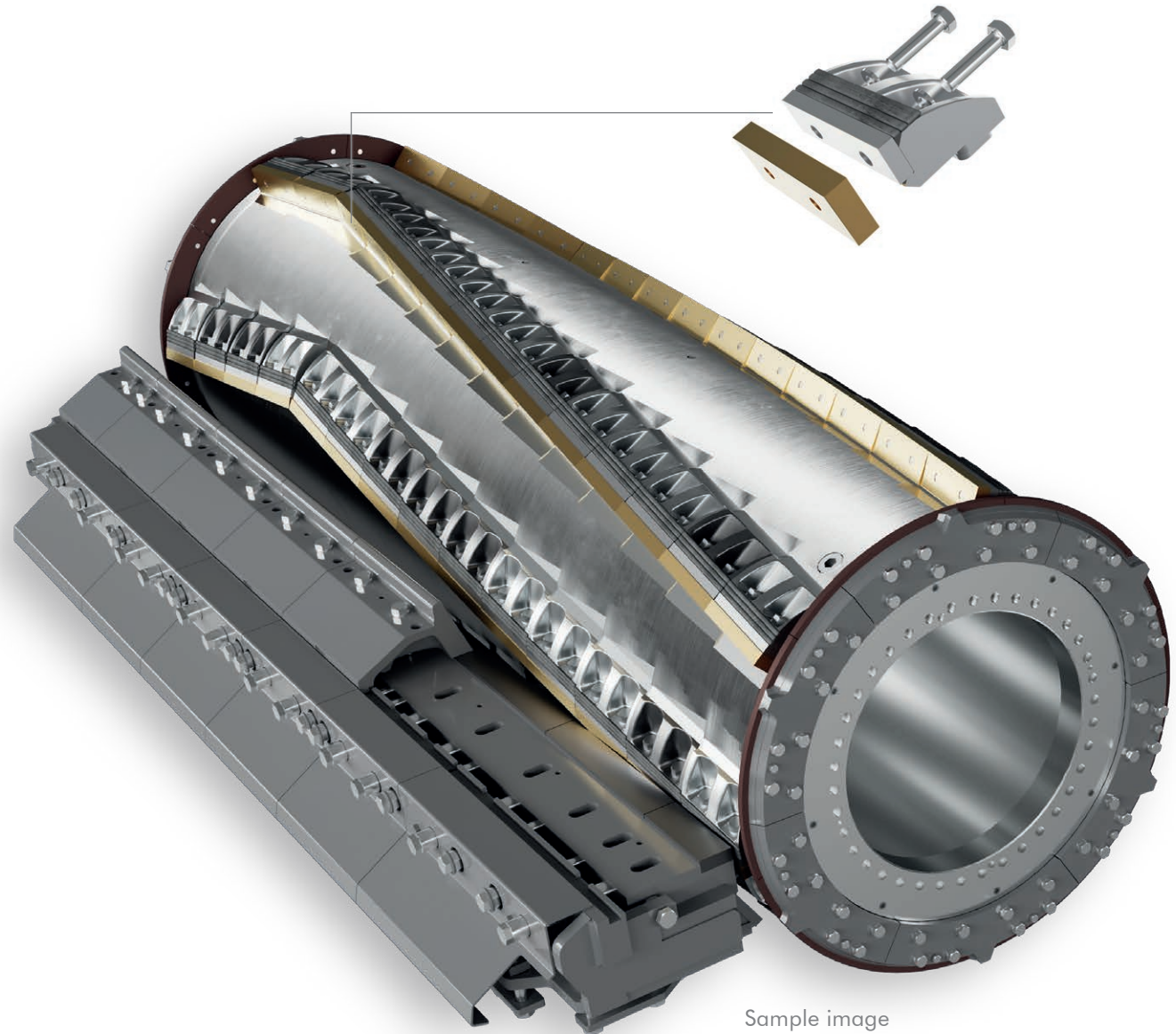
XC Cutting System

The XC cutting system is designed for the processing of pre-treated or iron-separated materials, which are subsequently recycled or thermally utilised. The four-way-reusable strip knives and stator bars can be replaced quickly and easily.

Materials:

- » Pre-treated or iron-separated material streams
- » Plastic bales

Achievable fraction sizes [mm]:



XR stationary

Robust construction and precise shredding technology for consistently **reliable results**.



Ergonomic Maintenance

The thoughtfully designed machine allows operators to work safely and efficiently while standing.

Automatic Central Lubrication

Extends maintenance intervals and reduces service requirements.

Cost-Effective UNTHA Power Drive

The beltless asynchronous direct drive transmits power directly to the rotor. It is reliable, durable, and low-maintenance.

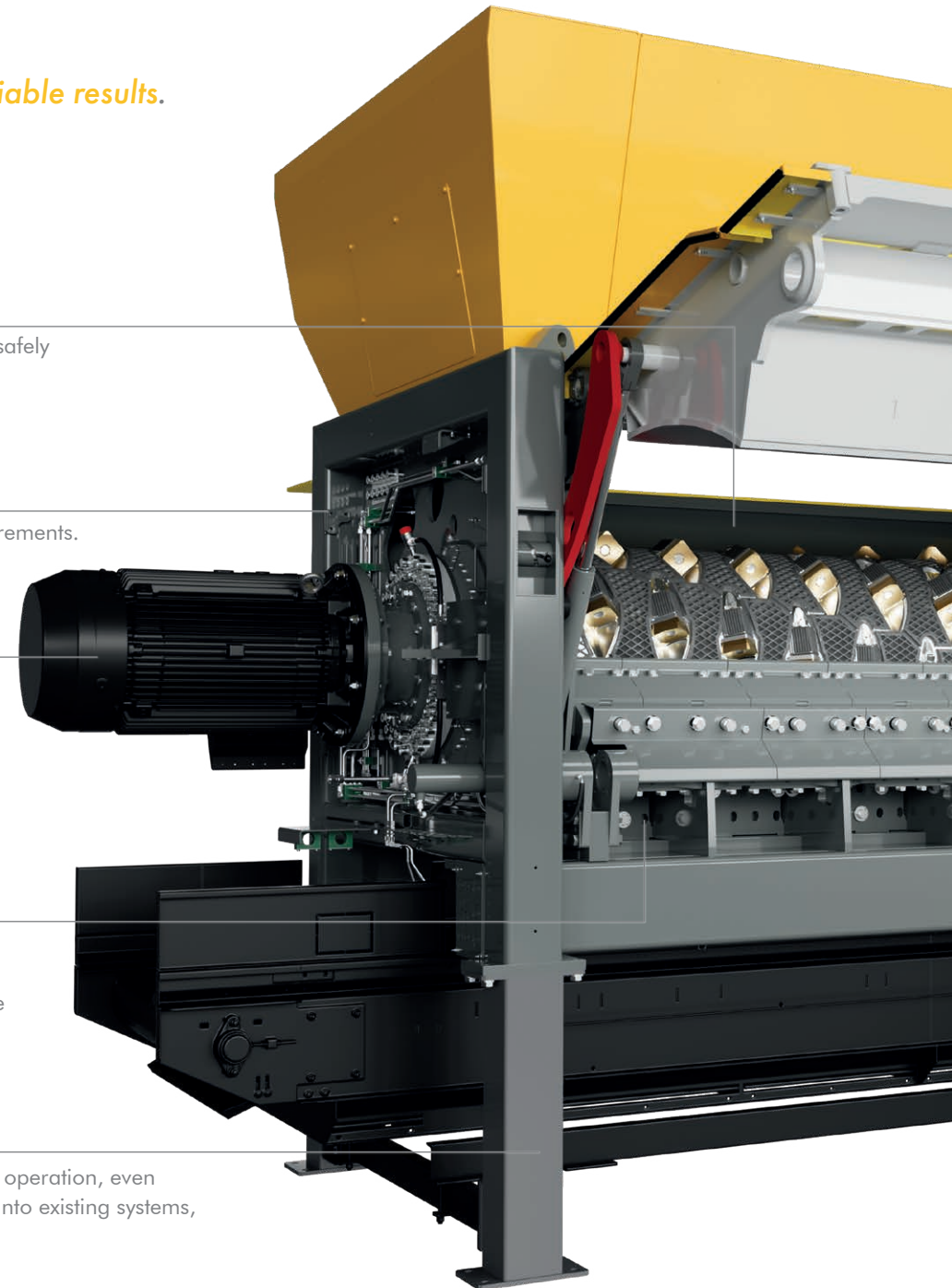


Defined Particle Sizes

Perforated screens or screen bars ensure a homogeneous and defined particle size. Bolted screen trays allow for quick and easy replacement of individual elements – without having to replace the entire screen basket.

Solid Machine Frame

Solid, torsion-resistant profile tubes provide exceptional stability and low-vibration operation, even under the most demanding conditions. The compact design facilitates integration into existing systems, while the low feed height allows for loading via a wheel loader.



Heavy-Duty Hopper

Three-sided hoppers are ideal for convenient loading with a wheel loader. For larger feed volumes, or when using material-handling equipment, four-sided hoppers are recommended.

Efficient Contaminant Ejection System

Enables the rapid removal of contaminants from the cutting chamber.

Internal Pushing Slider

Ensures continuous material feed, especially when processing bulky materials.

Effective Cutting Systems

RC, C, and XC cutting systems for different requirements and materials. All blades and stator bars are reusable and can be changed quickly.

Adjustable Cutting Bars

The cutting gap can be adjusted from the outside while the maintenance door is closed.

User-Friendly Display

The shredder is operated via a 7-inch colour display.

Options

Extras

- » **Safety Clutch:** Protects the cutting system and drive train by precisely limiting torque at higher speeds
- » **Quick-change screen system:** Easy and time-saving screen changes that can be performed by a single person
- » **Rotor protection:** Significantly increases the rotor's service life when processing abrasive materials
- » **Radio remote control:** The machine can be easily operated from various positions

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



More information

XR mobil-e

Semi-mobile technology for **maximum flexibility** while maintaining high machine performance



Efficient Power and Hydraulic Unit

A power unit supplies the electrically driven crawler chassis and hydraulic system with power when no external energy source is connected.



User-Friendly Display

The shredder is operated via a 7-inch colour display, protected by a plastic cover for safe, reliable operation in dusty environments.



Quick-Connect Power Plug

The quick-connect power plug allows the shredder to be connected to and disconnected from the power supply safely and quickly.

Effective Water Cooling System

Protects the frequency converter, hydraulics, and control cabinet from overheating.





Cost-Effective UNTHA Power Drive

The beltless asynchronous direct drive transmits power directly to the rotor. It is reliable, durable, and low-maintenance.

Proven Magnetic Separator (optional)

A permanent overband magnet reliably separates ferrous materials from the feedstock.

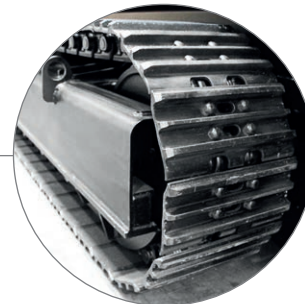


Height-Adjustable Discharge Conveyor

A high-performance conveyor ensures smooth material discharge. The discharge height can be easily adjusted via the control terminal.

Crawler Undercarriage

The electrically powered crawler undercarriage is controlled via radio remote control and enables flexible and precise positioning of the shredder at various work sites.



Options

Extras

- » **Fire protection system** to prevent the spread of fire
- » **Quick-change screen system:** Screen changes can be performed easily, quickly, and by a single person
- » **Additional flame detector for the feed hopper**
- » **Tracked undercarriage with rubber coating**
- » **UNTHA Power Core:** Specially developed for operation of the XR. The Power Core enables self-sufficient operation without a fixed power supply, ensuring maximum flexibility

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



More information



UNTHA Power Drive

Asynchronous direct drive for high throughput and cost-effective operation.

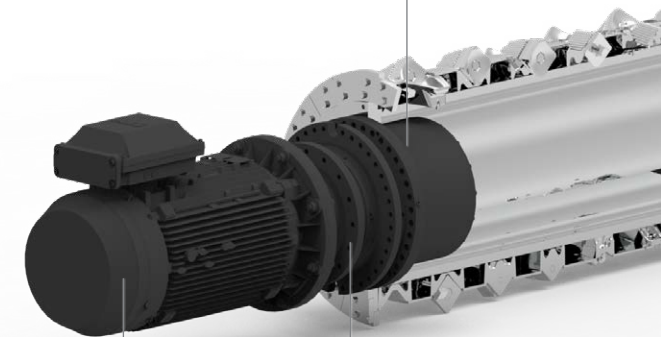
The UNTHA Power Drive, is an economical, robust, and low-maintenance drive solution. The beltless direct drive transfers power via a planetary gearbox integrated into the rotor directly to the cutting process. An optional low-maintenance safety clutch protects the cutting system and drive train from damage caused by foreign objects.

This results in an economically attractive overall package, which guarantees high throughput and long-term operational reliability for every XR machine.

The advantages at a glance:

- » **Proven, robust drive technology:**
Reliable continuous operation with homogeneous materials and moderate torque requirements.
- » **Cost-effective solution:**
Lower acquisition costs ensure an attractive CAPEX.
- » **High tolerance to load peaks:**
Insensitive to short-term overloads and foreign objects.
- » **Simple operation and maintenance concept:**
Low service requirements and low maintenance costs over the entire lifecycle.

Planetary gear



Asynchronous motor

Clutch



Additional Services

Value that goes far beyond technology

» Customised System Solutions

We design and implement system solutions that are tailored to precisely to your requirements – including material type, throughput, particle size and intended use. All components are perfectly coordinated with one another and adapted to local conditions – this ensures stable processes, reliable interfaces, and optimal results.

» Customer Service

Our service team provide comprehensive support throughout the entire lifecycle of your plant. From service and maintenance work to spare parts, training and support. With quick response times, high parts availability and practical advice, we ensure reliable operation of your plant together with you.

» MyUNTHA Customer Portal

The MyUNTHA customer platform offers a wide range of digital features to support you in working with your shredder. Apps such as the Spare Parts Catalog and Online Shop, Maintenance Manager, and GENIUS – Data Explorer provide valuable insights and assistance to optimise processes, reduce downtime, and increase efficiency.

» Live Demonstrations

With UNTHA live demonstrations and material tests, we give prospective customers the opportunity to thoroughly test and get to know our shredders. A wide variety of different materials can be tested, right at your facility. If needed, we provide a suitable power supply – the UNTHA Power Core.

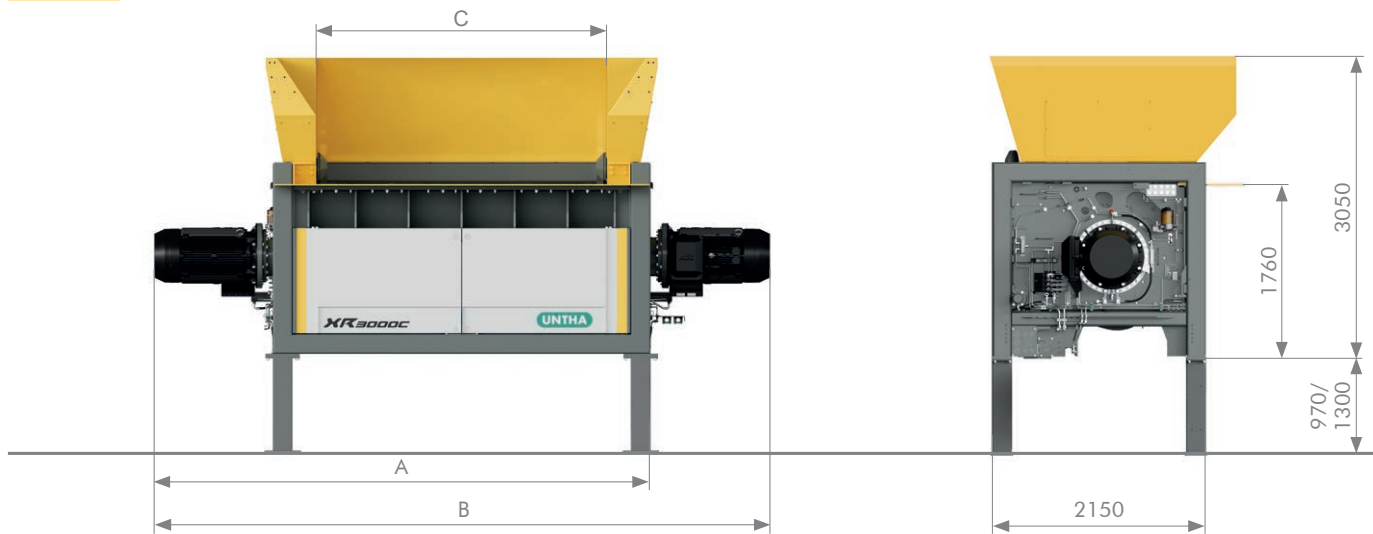
» Experience and Expertise

Over 15,000 UNTHA shredders are already in use worldwide. This has resulted in a vast wealth of experience, which is continuously incorporated into the further development of our shredders and the advice we provide to our customers. This ensures that you receive the machine best suited for your operations.

» UNTHA Power Core

With the UNTHA Power Core, we offer a high-performance generator that enables the operation of UNTHA shredders. It serves as a reliable power source at sites without an existing power supply – ideal for temporary applications such as test runs, rental solutions, or changing locations.

XR stationary



UNTHA POWER DRIVE	XR2000	XR3000
A	4.300	5.280
B	5.290	6.270
C	1.980	2.960

All dimensions in mm

TECHNICAL DATA			XR2000	XR3000	XR3000 mobil-e
RC	UNTHA Power Drive	kW			
C	UNTHA Power Drive	kW		1 x 160 2 x 160	2 x 160
XC	UNTHA Power Drive	kW			
Rotor speed		rpm	max. 55 (RC) max. 64 (C) max. 103/145* (XC)		
Rotor length		mm	2.000	3.000	3.000
Rotor diameter		mm		1.000	
Weight		t	approx. 21	approx. 24	approx. 44

* Permitted only with the hopper closed

XR mobil-e



Shipping dimensions (L/W/H):
12320/2950/3720

XR System Solution



All dimensions in mm



UNTHA

UNTHA

XR3000C
mobile



The XR-Class

Often copied, never equaled!

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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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