



UNTHA shredding technology – Innovation in size reduction



Tradition and Innovation
In 1970, Anton Unterwurzacher founded a company which has since become an international player: UNTHA shredding technology. In 1980, he developed the innovative four-shaft cutting system and specialised in the production of shredders.

UNTHA shredders stand out with their high quality, reliability and sturdiness. The machines are tailored to customer specifications. Delivery times can be kept short, since the majority of construction work is done by UNTHA itself. High quality and productivity are ensured by state-of-the-art production equipment.

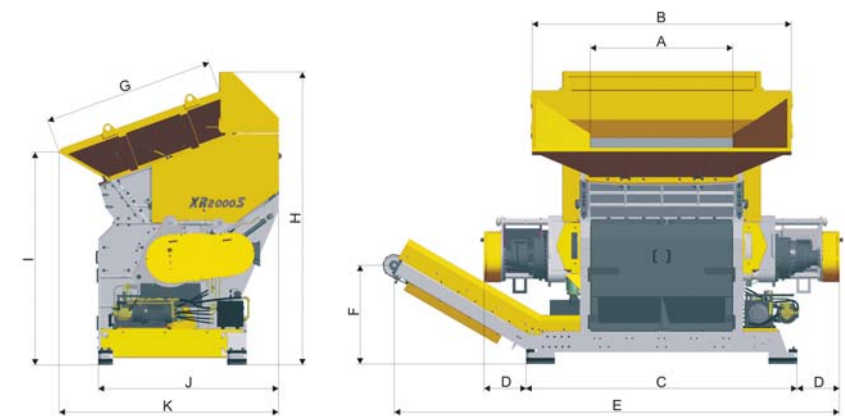
UNTHA offers expertise in consulting, production and sales world-wide! The team of UNTHA shredding technology, with its 100 highly qualified and motivated staff, provides comprehensive consulting and support. The international sales network, with partners in more than 60 countries, ensures swift processing of your inquiries as well as immediate service on site.

We keep our promises!

UNTHA shredding technology – your reliable expert partner in shredding technology – employs the most advanced technology to find the optimum solutions for your requirements. The highest technical standards and our comprehensive service and support guarantee trouble-free operation of equipment and keep stand-still times of your plant to an absolute minimum.

Technical data XR2000 / XR2000S / XR3000 1-shaft cutting system

Dimensions (all data in mm)



	XR 2000	XR 2000S	XR 3000
A	1988	1988	2972
B	3650	3650	4630
C	3780	3780	4764
D	450	595	810
E	6330	6215	7425
F	1375	1375	1375
G	2337	2337	2337
H	3920	4070	4070
I	2850	3000	3000
J	2370	2495	2495
K	3043	3043	3043

Types		XR 2000	XR 2000S	XR 3000
Electro-mechanic drive	[kW]	150	220	264
Driving power hydraulic unit	[kW]	7.5	7.5	7.5
Rotor Ø	[mm]	850	1100	1100
Rotor speed	[rpm]	40	30	30
Number of cutting tools	[pcs.]	24	36	54
Reversible cutting plate size	[mm]	130 x 130	130 x 130	130 x 130
Weight	[t]	approx. 22	approx. 27	approx. 38 – 40
Throughput	[kg/h]	up to 25,000	up to 40,000	up to 60,000

product



XR2000 / XR2000S / XR3000
with patented 1-shaft cutting system

30 years of expertise.
More than 8,000 shredders in daily operation!



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Distribution partner



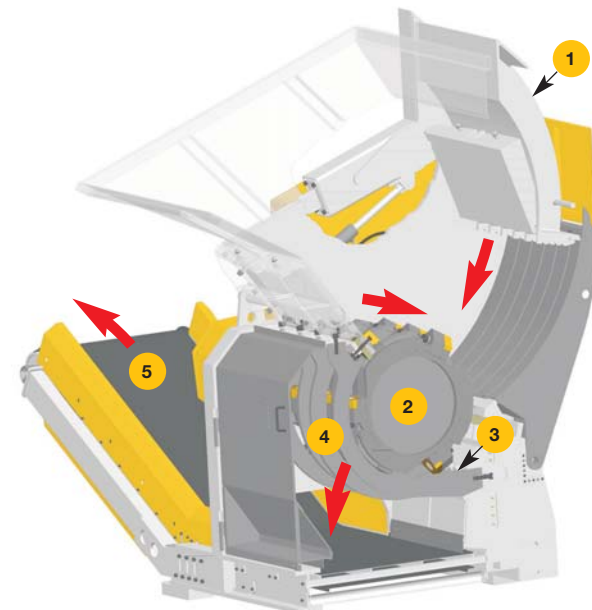
Applications

The XR series has been specially developed for waste and disposal applications. The final particle size can be determined using adjustable sieve rods. Multiply rotatable cutting discs on the rotor and stator bar keep wear costs down. The reliable XR series cutting system is a patent registered UNTHA shredding technology innovation. The hydraulically powered removal system for problematic materials raises the availability of machines in this series immensely. Based on the demands placed on the machine by the material to be shredded by the customer, UNTHA shredding technology can provide rotors to suit each and every specific task. This guarantees optimal shredding operations.

A selection of existing applications:

- demolition wood • plastic film bales • films and foils
- industrial refuse • plaster boards • household waste
- rubbish bales • foam materials • hazardous waste
- bulky waste • carpet bales

Function and set-up



During the reduction process the hydraulically regulated ram (1) presses the material onto the rotor (2). The material is shredded against the stator bar (3). The adjustable grid rods (4) determine the final size of the shredded material. The material is then removed via a conveyor belt (5) (optional).

Flexible cutting system

Depending on requirements for subsequent processing the **customer** can adjust the **cutting gap** (D) and the **setting of the screen bar** (B) to ensure the ideal **fraction size** is achieved.

Advantage:

- Exact **determination of end fraction size** and fine-fraction avoidance
- **Continual and even material removal** for unproblematic further processing.

Low running costs

- **Long operating times** due to 4-fold rotatability of the cutting discs and stator bars made of high quality tool steel alloys. (A) (D)
- **Low breakage risk** for reversible cutting discs due to low rev counts of 30 to 40 rpm
- **Low power consumption** due to highly effective cutting system based on pre-defined cutting rather than tearing.

Charging

- **Low charging height**
- **Broad charging opening**

There are several charging possibilities, such as wheel loading, waste bunker cranes and conveyor belts.

Reliable processing of bulky waste due to the **hydraulic pressing system**.

Easy to maintain

- **Short replacement times** for reversible cutting plates (24, 36 or 56 pieces) and stator bars due to easy access to and due to simple yet reliable mounting and fixing systems (D)
- **Fully automatic central greasing system** for all lubrication points
- Cutting tool can be replaced without removing the shaft

High availability

- **Screen bars not easily damaged by unshreddables** (B)
- **Hydraulic ejection** of unshreddables and easy access to the rotor to remove problematic materials. (C)
- Cutting tools and motor protected via **overload clutch**
- **Long working life** due to heavy duty machine construction (machine itself weighs up to 42 tonnes)

Low emissions

- **Low noise pollution** due to low rotor rev. counts
- **Low dust pollution** due to low rotor rev. counts

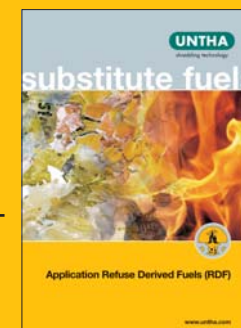
NEW! Rev count regulation via frequency converter (optional)



- Ideal for shredding problematic materials
- Rev count can be set for each individual shaft
- Infinitely settable throughput volume via rev count control
- Reduced reversal occurrence due to optimal throughput set-up

XR series 1-shaft cutting system

For more information please visit www.untha.com



Transform waste into energy!

For more information order our application brochure for alternative fuels!



XR2000 with option discharging conveyor belt