



The reliable brand!



Your expert for the single-step shredding of waste wood

## Why UNTHA?

Because we have the experience and the skills. UNTHA shredding technology, based in Kuchl near Salzburg, Austria, stands for 50 years of reliability when it comes to shredding technology. Ever since the company was founded in 1970, we have been developing customised shredding systems you can rely on in a wide range of applications, from material recycling to the processing of residual and waste wood, and the reprocessing of waste to produce alternative fuels. With a global sales network in more than 40 countries on all continents, we are among the most important manufacturers in a growing, future-orientated industry. With the XR class, UNTHA is setting new standards and has established itself as a pioneer in the single-step shredding of waste.

## Our competent solutions for shredding wood

With waste wood, you have a precious resource at your disposal. Rising waste disposal costs and a growing awareness of environmental issues contribute to the increasing importance of waste wood recycling. We are happy to put our competent solutions to the test when it comes to processing waste wood.

Recycled waste wood can be used as a high-grade fuel in biomass or heating plants, or as a source material for the production of chip-board panels or other wood-based materials. To achieve this, waste wood must first be shredded and separated from extraneous matter such as metal parts. Our reliable shredding units are configured for your specific application, thereby guaranteeing maximum variability and individuality.

For the recycling of category A1 to A4 waste wood, the XR class constitutes a customised, innovative single-step shredding concept for your individual requirements.





## Your benefits at a glance

- » reduction in energy costs of up to 75% thanks to UNTHA Eco Power Drive
- » quick-change screen system makes it easy to swap the perforated screen when a new input material is introduced
- » low noise and dust emission (noise level < 80 dBA)
- » throughput of 45 t/h < 100 mm
- » slow-running cutting system
- » available as a stationary and mobile version
- » increase of usable fraction by 20% thanks to low fine production
- » homogeneous, defined fraction size
- » personal condition monitoring tool UNTHA GENIUS for maximum productivity

# What **materials** can we process?

No matter what waste wood categories are processed by your business, we have the right solution to help you shred all four categories.

Waste wood includes:

- » Residual waste wood from woodworking and timber-processing businesses
- » Bulky waste
- » Wood packaging (pallets, crates)
- » Construction timber and demolition waste wood
- » Waste wood from waste treatment sites

## Category A1

Natural or purely mechanically processed waste wood, with a negligible content of foreign material



## Category A2

Glued, painted, coated, varnished or marginally treated waste wood without halogenated organic compounds in the coating and without wood preservatives



## Category A3

Waste wood with halogenated organic compounds in the coating, painted waste wood, without wood preservatives



## Category A4

Wood that is strongly contaminated by wood preservatives, such as railway sleepers and electric masts as well as other waste wood that contains noxious substances



## The **XR series** for the single-step processing of waste wood

With the slow-running XR series, you have a specialist for the single-step processing of waste wood at your side. The XR units stand out for their high throughput and a usable fraction increase of 20%, thanks to the extremely low fine production. Our specially designed waste wood package consists of indexable inserts that may be reversed up to 4 times and perforated screens with chip breakers, ensuring a long service life and a particularly homogeneous final product

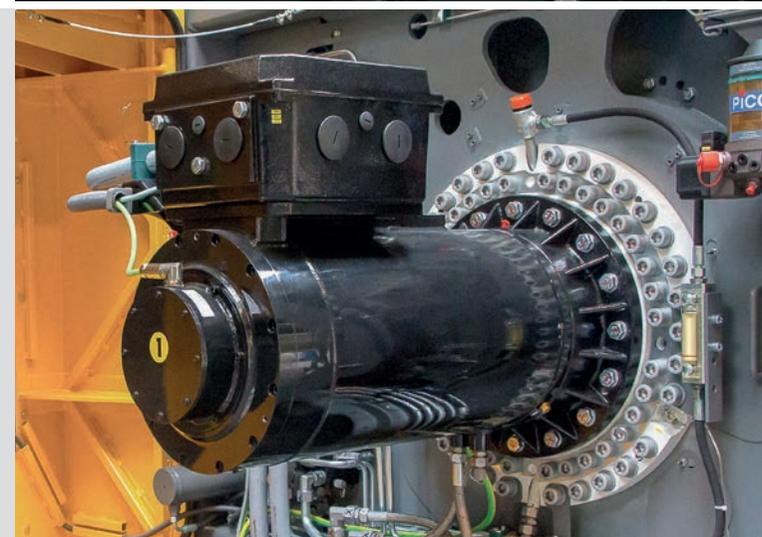
without excess lengths. In addition, the quick-change screen system makes it easy to swap the perforated screen when a new input material is introduced. The internal pusher system ensures the optimised intake of bulky material and thus also a high throughput. Thanks to the robust design, all wood categories from A1 to A4 may be processed. Non-shreddables are easy and quick to remove via the dedicated discharge system, keeping downtime to a minimum.

For more information on structure and functionalities, see here:



## Reduction in energy costs of up to 75%

A special benefit of the XR series: The energy-efficient UNTHA Eco Drive with its water-cooled synchronous motor reduces energy costs by up to 75%, at higher performance levels compared to standard diesel-hydraulic drive options. The mobile version of the XR unit ensures maximum flexibility throughout your operation. The wear-free direct drive reduces maintenance costs as belts or shaft stubs are not required. The load-dependent speed control ensures a high throughput rate. Unlike fast-running units, the slow-running XR series also stands out for its low noise and dust emissions during operation. **A thoroughly convincing UNTHA package for the processing of waste wood!**





## Put us to the test!

No challenge is too big for our XR shredders.

See for yourself, during a live demonstration at your premises. Book a date now at [www.untha.com/demo/](http://www.untha.com/demo/)



## Success Story Altola AG

Altola AG was founded in 1969 and is part of the Swiss Vigier Group, which in turn belongs to the French Vicat corporation. Altola is one of the leading service providers when it comes to the collection, recycling, processing and disposal of waste.

The XR3000C that was customised for Altola was fitted with the UNTHA ECO Power Drive and a synchronous, water-cooled rated capacity of 2 x 132 kW. Special wood-cutting blades were fitted to the cutting system of the XR3000C, ensuring an aggressive feed-in and a high throughput

of residual wood. The perforated screen is set to a grain size of 90 mm and comes with chip breakers to reduce oversized grain. The drive is also resistant towards non-shreddables and keeps maintenance costs low. Maintenance is simplified further by a safe rotor speed that facilitates the speedy exchange of cutters. Non-shreddables in the cutting chamber may be removed easily via the discharge system for extraneous matter. Overall, the UNTHA XR3000C offers a high level of robustness and wear resistance, easy maintenance and low energy consumption.

*„The unit is state-of-the-art and has a clear lead over other products that we tested. We tried out the XR3000C for a month, and it fully lived up to our expectations!“*

*Thaddäus Steinmann, Head of Solid Alternative Fuels at Altola*

For more information  
see here:



## Success Story

# Breitsamer Entsorgung Recycling GmbH

Breitsamer Entsorgung Recycling GmbH is a waste disposal company based in Munich, with an annual approved inbound quantity of 205,000 tonnes of waste for processing and storage. In addition to the in-house sorting plant for construction, commercial and production waste, the company also operates its own waste wood processing facility.

To fulfil the specified requirements in the best way possible, Breitsamer invested in an XR3000C mobil-e. The shredder comes equipped with a “timber package” for single-phase waste wood processing and is particularly energy efficient, thanks to the UNTHA Eco Power Drive. The specially developed shape of the blades ensures a particularly aggressive intake behaviour for the waste wood. The screens come with chip breakers, creating a homogeneous grain size without excess lengths. Thanks to the hydraulic quick-change screen system, the screen may be exchanged in less than 30 minutes. Wear protection surfacing ensures a long lifespan for the rotor as well as lower maintenance costs.



„This UNTHA technology makes us 70% more economical than if we were using diesel power and 30% more economical than the conventional star-delta drive. The slow running cutting principle of this shredding system keeps the noise of our pellet production at a very low level and produces a very low amount of fine particles. The high flexibility of this shredding machine not only allows for the processing of category 1-3 waste wood but also of category 4. Beyond that we are able to sell the metals separated from the wood to the steel industry.“

*Thomas Breitsamer, Managing Director*

For more information  
see here:



## UNTHA shredding technology GmbH

Kellau 141  
5431 Kuchl | Österreich  
Tel.: +43 6244 7016 0  
Fax: +43 6244 7016 1  
info@untha.com  
www.untha.com

## UNTHA Deutschland GmbH

Am Hammersteig 5a  
97753 Karlstadt | Deutschland  
Tel.: +49 9353 906869-0  
Fax: +49 9353 906869-35  
info@untha.de  
www.untha.de

## UNTHA UK Ltd.

Excel House, Becklands Close  
Boroughbridge  
YO51 9NR | United Kingdom  
Tel.: +44 330 056 4455  
sales@untha.co.uk  
www.untha.co.uk

## UNTHA America, Inc.

1 Lafayette Road, Building 4  
Hampton, NH 03842 | USA  
Tel.: +1 603 601 2304  
Fax: +1 603 601 7573  
info@untha-america.com  
www.untha-america.com

## UNTHA Polska Sp. z o.o.

Olecka 23/221  
04-980 Warszawa | Polska  
Tel.: +48 12 6421896  
Fax: +48 12 6421896  
info@untha.pl  
www.untha.pl

## UNTHA Ibérica S.A.

Polígono de Sigüeiro - Parcela 58, Sigüeiro - Oroso / A  
Coruña | España  
Tel.: +34 981 69 10 54  
Fax: +34 981 69 08 78  
info@untha-iberica.com  
www.untha.es

## 5 reasons to choose UNTHA



Customised, long-lasting shredding solutions



Premium quality products and services



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.

All revisions reserved. Subject to setting and printing errors.  
All illustrations are representative and may deviate from the actual product.  
© 12/20 UNTHA shredding technology