

# UNTHA

The reliable brand!



# LR700

Shredding solution for economic  
processing of waste wood

# The tried-and-tested UNTHA cutting system

## Single-shaft cutting system:

The single-shaft cutting system was developed for efficient shredding, a long service life of the indexable inserts and low maintenance. Together with the high-performance power train, it ensures the reliable shredding of residual wood, both with and without a pusher system.

### Smooth rotor shape

The smooth, full-steel rotor enables the indexable inserts to dig deeper into the material than a highly profiled rotor, resulting in excellent material feed-in.

### Cut-as-you-pull

The unique shape of the indexable inserts makes for a "cut-as-you-pull" effect, which means that the unit requires less power and achieves a higher throughput.

### Screwed-in blade holders

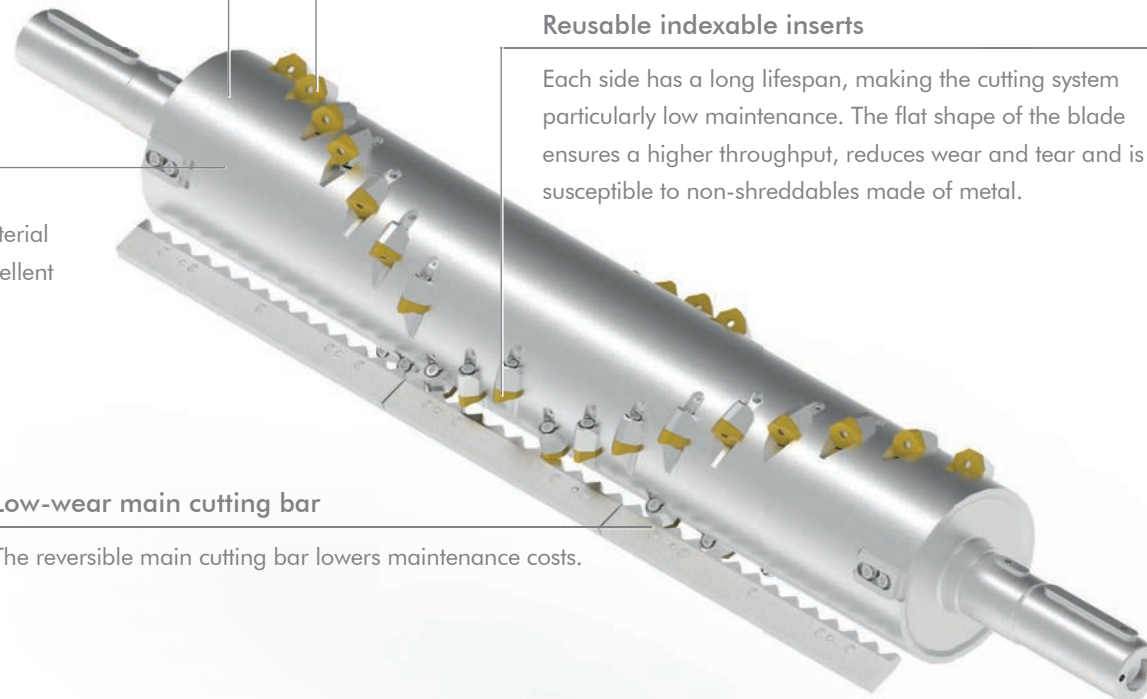
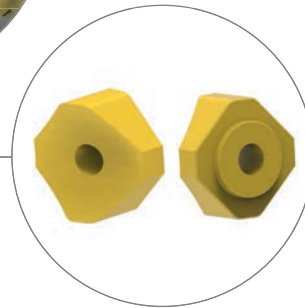
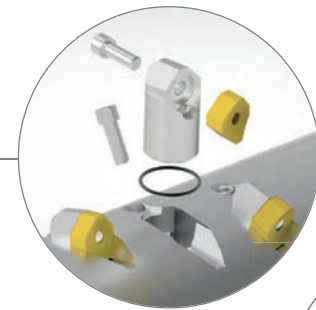
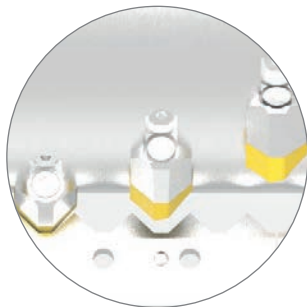
The screwed-in, exchangeable blade holders are easy and quick to replace in case of damage (for instance caused by solid metal parts).

### Reusable indexable inserts

Each side has a long lifespan, making the cutting system particularly low maintenance. The flat shape of the blade ensures a higher throughput, reduces wear and tear and is not susceptible to non-shreddables made of metal.

### Low-wear main cutting bar

The reversible main cutting bar lowers maintenance costs.



# LR700

## Single-shaft shredding system

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The LR700 is a single-shaft shredder that was designed for a broad range of applications. Customers appreciate its compact design and universal application opportunities. The tried-and-tested UNTHA cutting system and the powerful, wear-free swivelling pusher ensure the reliable shredding of different types and volumes of wood.

The robust machine frame and high-grade components have a particular long service life. Thanks to the compact design, the machine only has a small footprint.

The powerful drive system and the high speed of the pusher ensure a high throughput. The homogeneous final product is extremely well suited for use in a wood-chip heating system or for manufacturing wood briquettes.

### Areas of application

- » Hard and soft wood
- » OSB
- » Chipboard panels
- » MDF panels
- » Veneers
- » Cap pieces
- » etc.



# Your benefits at a glance

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## Reliable, cost-effective cutting system

The large rotor diameter (300 mm) and screen surface and the use of a secondary cutting bar all ensure a high throughput.

The screw-in, exchangeable blade holders are easy and quick to replace in case of damage (for instance caused by solid metal parts). The precise cutting gap between the main/secondary cutting bar and the indexable inserts makes the shredding process particularly efficient. The main cutting bar is reversible and easy to exchange.

## Unique geometry of the indexable inserts

The reusable indexable inserts have a long service life. Their unique cutting geometry ensures a “cut-as-you-pull” effect that makes for particularly effective shredding even of wet wood.

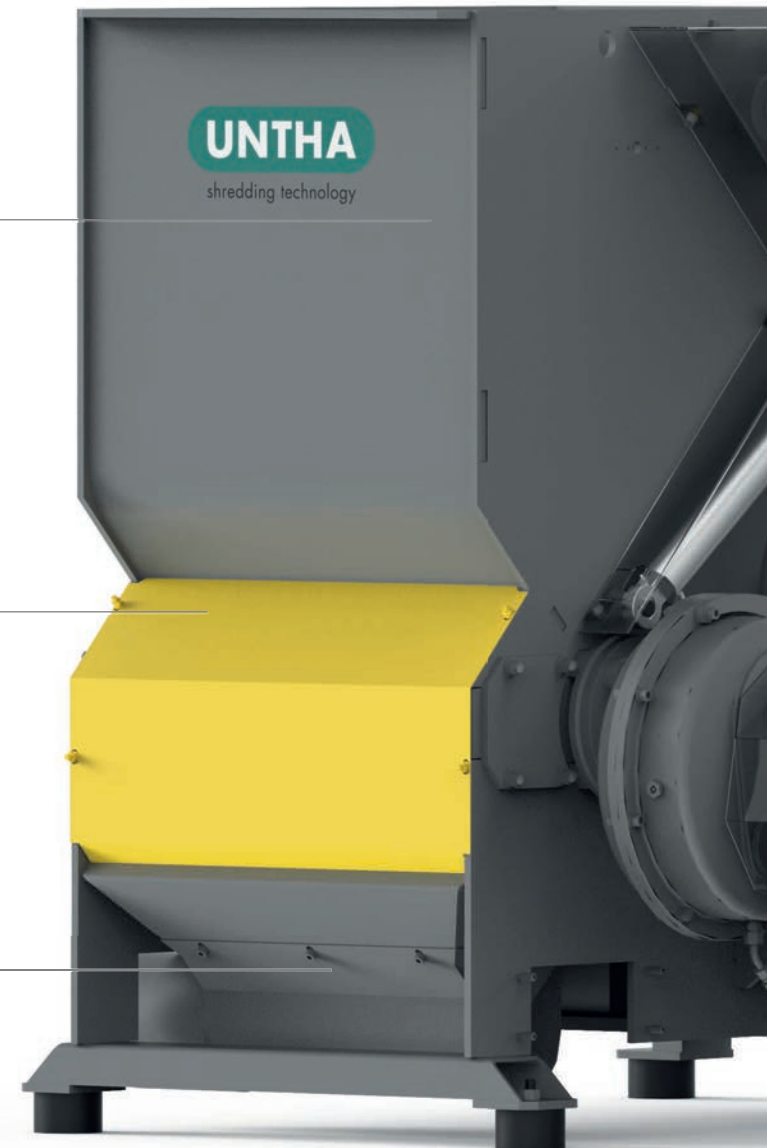
The positive connection between the indexable insert and the blade holders prevents the fastening bolt from becoming deformed. It is easy to loosen and remove even after many hours of operation.

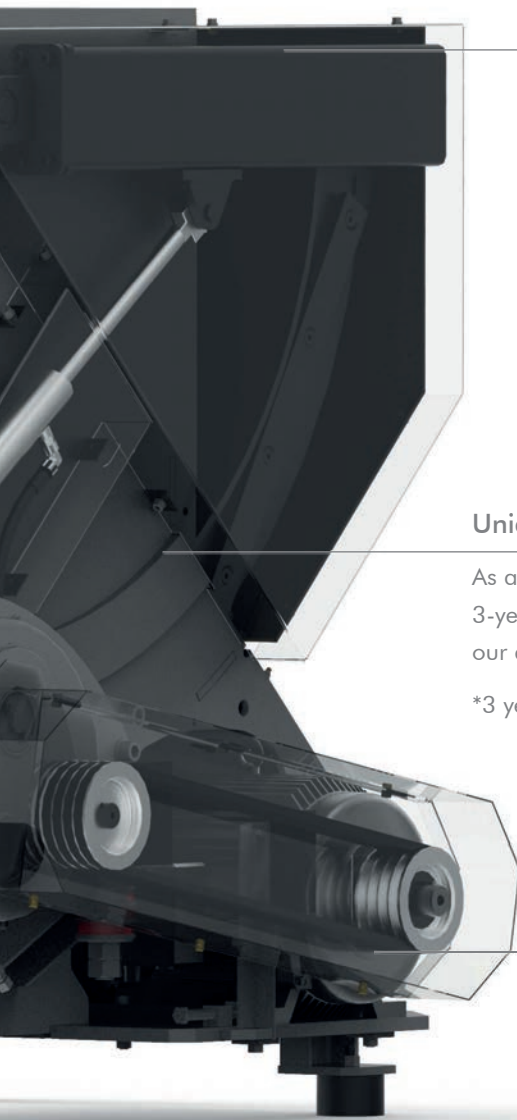


## Low-wear perforated screen

Depending on the requirements, a range of screens ensure the production of a pre-defined granulate. The shredded material is then removed via a suction mechanism or a screw conveyor.

The special design of the perforated screen provides a particularly homogeneous final product that is ideal for briquetting or use in a wood-chip heating system.





### Powerful, low-wear swivelling pusher

The powerful horizontal swivelling pusher pushes the residual wood against the rotor (load-dependent), ensuring a continuous material feed. Two pull-along hydraulic cylinders ensure a smooth and even feed-in for the swivelling pusher. The pusher guides are maintenance-free and not subject to any wear. The standard use of a fast hydraulic system results in a high throughput.

The hydraulic power unit is safely integrated in the machine frame/housing and yet easily accessible. Thanks to the compact design, the machine only has a small footprint.



### Unique warranty

As a proof of our excellent product quality, we are happy to offer you a 3-year warranty\*. Many renowned companies already put their trust in our quality standards.

\*3 years or 2000 hours, depending on which value is reached first.



### Energy-efficient, failure-free drive concept

The tried-and-tested belt drive and elastomer damper absorb shocks and vibrations and ensure the smooth running of the machine. The automatic reverse function, detection of non-shreddables and shut-off function protect the drive unit. The automatic shut-off function shuts down the machine when idling, further lowering energy costs.



## Options

### Mechanical extras

- » Second row of blade along the rotor for even higher throughputs
- » Profiled pusher floor for processing thin material
- » Material removal via screw conveyor

### Electrical extras

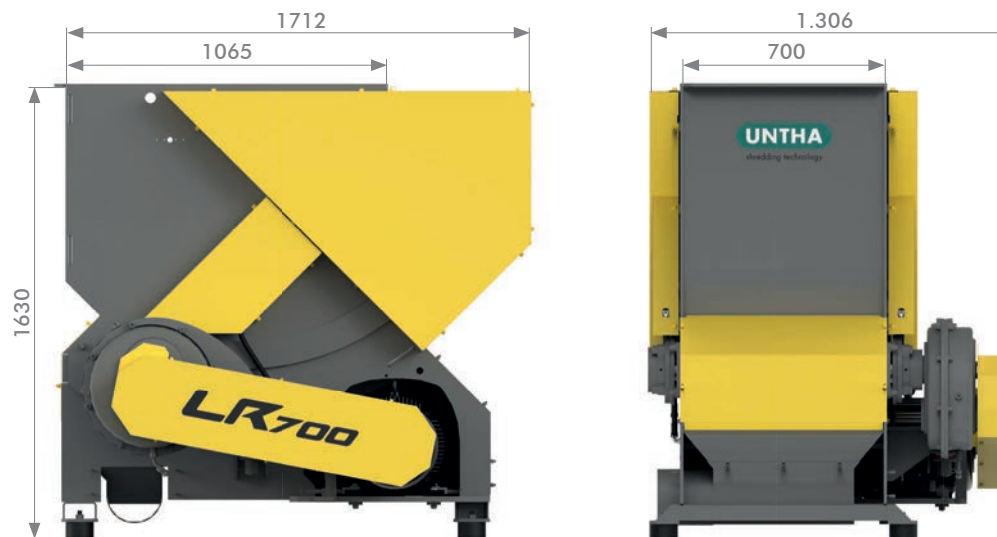
- » Control system upgrade (light barrier, superordinate control system, BUS system, etc.)
- » Integration of peripheral devices into the control system
- » Suction mechanism activation
- » Automatic start

### Accessories

- » Customer-specific undercarriages
- » Range of discharge feed systems (conveyor belts, etc.)
- » Range of metal separation units

### Service

- » UNTHA Carefree Packages (Basic, Standard, Professional): Ensure that machines are technically sound and ready for use at all times



TECHNICAL DATA		LR700
Rated capacity of the rotor	kW	18.5/22
Rated capacity of the hydraulic system	kW	1.1
Ø Rotor	mm	300
Rotor speed	rpm	98
Number of indexable inserts	pcs.	19
Feed opening	mm	700 x 1,065
Ø Suction nozzles	mm	200
Required suction speed	m/s	28
Recommended pipe cross section	mm	200
Weight	kg	approx. 1,800
Workspace-specific sound pressure level LPA 1m	dB (A)	82
Ø perforated screen	mm	15 - 40
Throughput rates*	srm/h	Up to 6

\*) Dependent on type of material and diameter of perforated screen  
All dimensions in mm

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## 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.

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