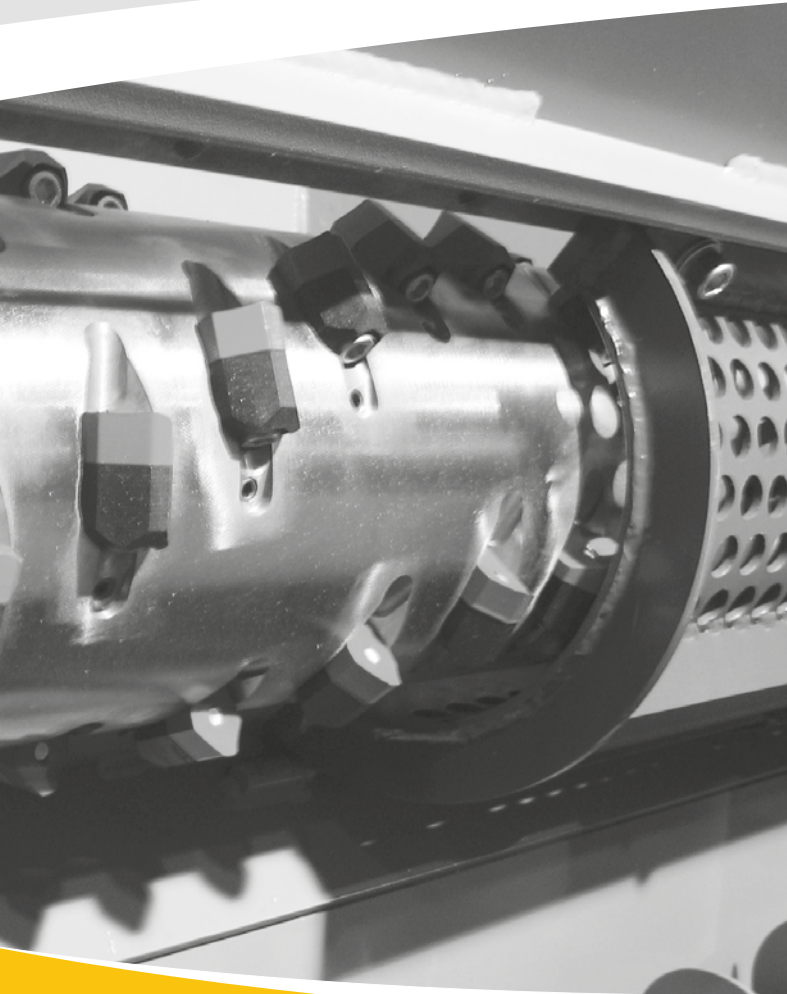




shredding technology

The reliable brand!



**3-YEARS**  
no-worries  
warranty!\*

**SHREDDING SOLUTIONS FOR WOOD**



## QUALITY SHREDDERS WITH A BITE!

Reliably, precisely and persistently, a beaver reduces all kinds of wood to small pieces. Due to its sturdy build, it is capable of diligently getting its job done even under extreme conditions. Its versatility, industriousness, efficiency and break-resistant teeth turn it into the proverbial eager beaver.

UNTHA shredders work to this same principle of success. The focus always is on the quality of our products. UNTHA shredders are designed, produced and mounted to meet even the highest quality requirements and significantly set themselves apart from competitors' products by their long service life and reliability. This quality pays off. We give a 3-years no-worries warranty\* for all UNTHA wood shredders!

# RELIABILITY

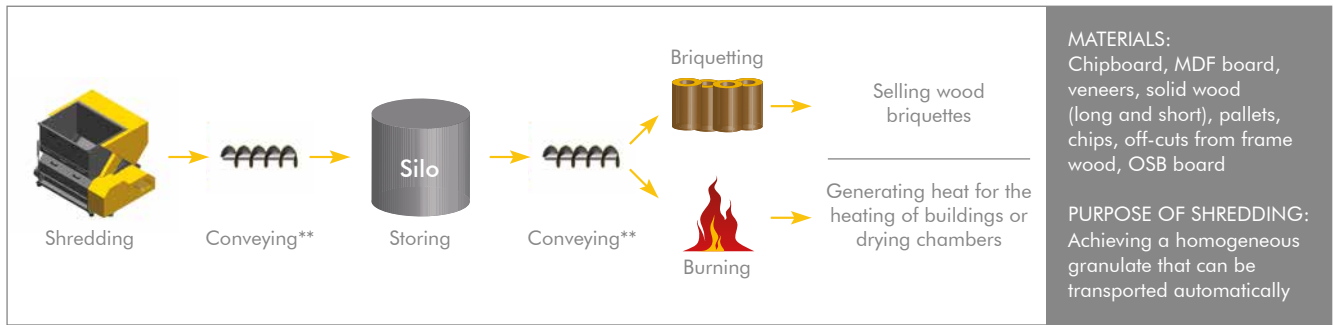
Each UNTHA shredding machine contains visible and invisible forces. The machine's sturdy design, powerful cutting system and distinctive performance are visible forces. However, all our employees' experience, innovative strength, problem-solving skills and high-quality thinking showcased in the heart and soul of our machines is not immediately obvious. It is all of these attributes that give our machines the distinctive reliability that our customers value around the world.

\*) or 2,000 h, whichever value occurs first

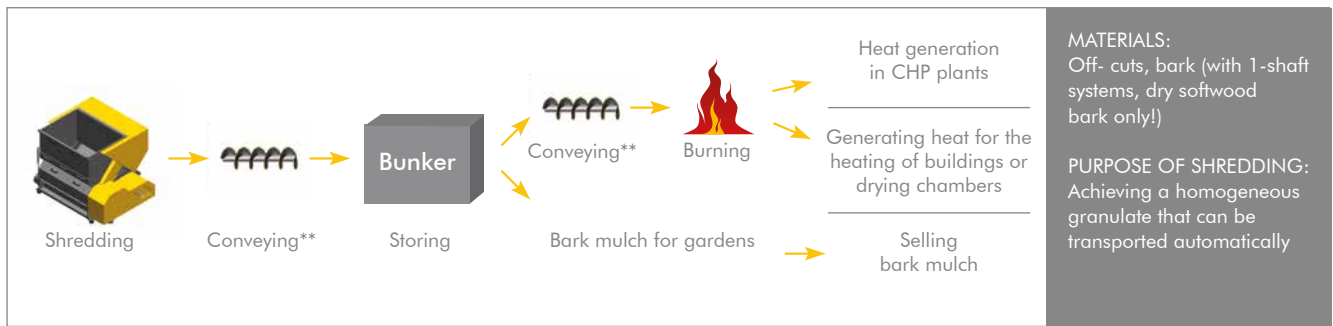
# USE THE ENERGY FROM YOUR WASTE WOOD!

No matter if you need to shred hardwood waste or veneer, our reliable shredding machines ensure that your off-cuts are shredded efficiently and economically. We focus on individual shredding solutions for the following trades: joiners and carpenters, sawmills and the woodworking industry.

## UTILISATION OF WASTE FROM JOINERS' AND CARPENTERS' WORKSHOPS



## UTILISATION OF WASTE FROM SAWMILLS



\*\*\*) Conveying with screw conveyors, conveyor belts, drag conveyors, suction systems....



### 1-SHAFT CUTTING SYSTEM WITH HORIZONTAL PUSHER

In the shredding process, the hydraulically actuated horizontal pusher load-dependently presses the material against the rotor which is equipped with indexable cutters. The cutters grab the material and shred it against the static cutting bars and the perforated screen.

### 1-SHAFT CUTTING SYSTEM WITH SWING PUSHER

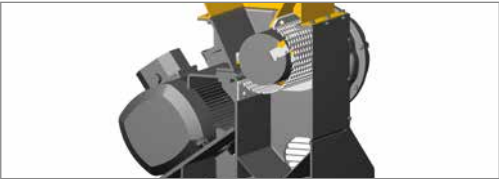
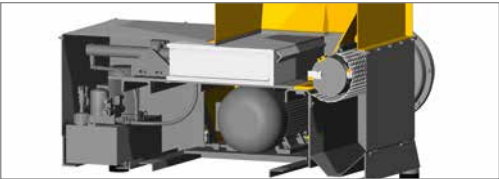
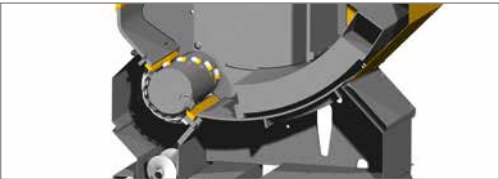
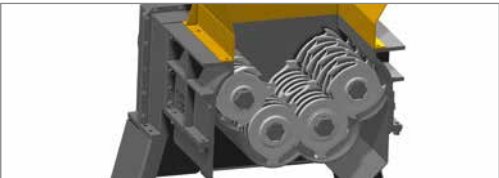
In the shredding process, the hydraulically actuated swing pusher load-dependently presses the material against the rotor which is equipped with indexable cutters. The cutters grab the material and shred it against the static cutting bars and the perforated screen.

### 4-SHAFT CUTTING SYSTEM

Material is drawn into the main cutters and both pre-shredded and re-shredded in a single pass.

## THE OPTIMUM SOLUTION FOR EACH APPLICATION

Depending on the individual application, we generally offer two different shredding systems, which are subdivided into the following series and types:

SHREDDING SYSTEM	MODEL RANGE	TYPE
 <p>1-shaft cutting system without pushing system</p>	LR	LR520
 <p>1-shaft cutting system with horizontal pusher</p>	LR	LR630
 <p>1-shaft cutting system with swing pusher</p>	LR	LR700 LR1000 LR1400
 <p>4-shaft cutting system</p>	RS	RS30, RS40

## MODEL RANGES AND APPLICATIONS



### **LR520**

1-shaft cutting system

For small wood working companies

- > waste per week: till 3 m<sup>3</sup>
- > hard and soft wood, OSB, chipboard, MDF, veneer

**COMPACT AND RELIABLE**



### **LR700**

1-shaft cutting system

For joiners and carpenters

- > waste per week: 4 – 12 m<sup>3</sup>
- > mainly board, off-cuts or veneers

**COMPACT AND ALL-PURPOSE**



### **RS30/RS40**

4-shaft cutting system

For joiners

- > mainly long solid wood parts (e.g. stair builders)

For sawmills

- > mainly bark from soft wood

**A TRADITION OF RELIABILITY**



### **LR630**

1-shaft cutting system

For joiners

- > waste per week: 1 – 7 m<sup>3</sup>
- > mainly board and solid wood

**LOW PRICE AND HIGH PERFORMANCE**



### **LR1000/LR1400**

1-shaft cutting system

For joiners and carpenters

- > waste per week: more than 12 m<sup>3</sup>
- > mainly board, off-cuts or veneers

For sawmills

- > off-cuts with a length of 0.9 – 1.3 m

**EXTREMELY POWERFUL FOR HIGH THROUGHPUTS**

## **LR520**

**COMPACT AND RELIABLE**

The LR520 wood shredder is a 1-shaft shredder specifically designed for joineries and wood working companies with a waste wood volume of less than 3 m<sup>3</sup> per week. Thanks to its pusher-free design, this low-maintenance wood shredder has a very small footprint.

The low drive power as well as the integrated shut-down function when idling significantly decrease energy costs. The powerful drive concept in combination with UNTHA's tried-and-tested cutting system provide for a reliable shredding process. The wood chips are either discharged via an integrated discharge screw or an external extraction device.

Powerful technology combined with well-known UNTHA quality features turn the LR520 not only into the most reliable wood shredder of its kind but also the most cost-effective one.

### **TYPICAL APPLICATIONS**

- Laminated wood panels ▪ OSB ▪ Chipboard ▪ MDF
- Hard and soft wood ▪ Veneers ▪ etc.

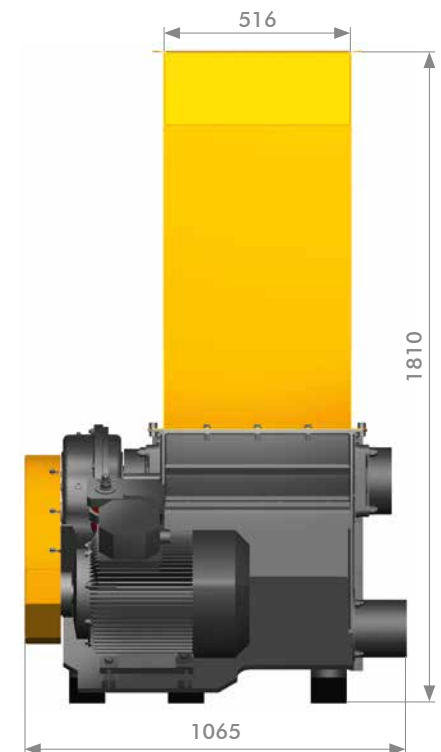
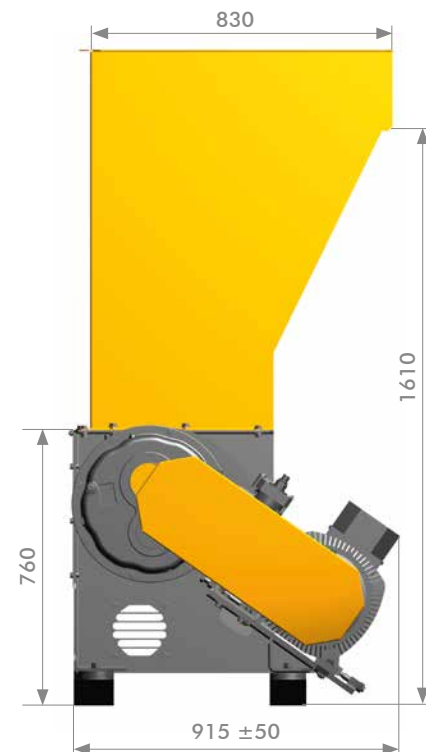


# LR520

1-shaft cutting system

TECHNICAL DATA		LR520
Power	kW	1 x 11
Rotor Ø	mm	248
Rotor speed	rpm	85
No. of indexable inserts	units	14
Charging hole	mm	516 x 830
Extraction connector Ø	mm	160
Required extraction speed	m/s	22
Weight	kg	appr. 850
Noise level pressure LPA1m	dB (A)	82
Perforated screen Ø	mm	12 - 25
Throughput**	cbm	appr. 0.5 - 1

\*\*\*) depending on: quality of material and diameter of perforated screen  
All dimensions in mm



**40 years of expertise.**  
**more than 9,000 shredders in daily operation!**



## QUALITY FEATURES

### Rugged and economic cutting system

- > large rotor diameter (248 mm) and large screen surface ensure high throughput
- > threaded and exchangeable cutter holders with multiple-use indexable cutters **(A)**
- > effective and automatic drawing-in of material **(B)**
- > tried, tested and proven UNTHA LR cutting system

### Pusher-free design

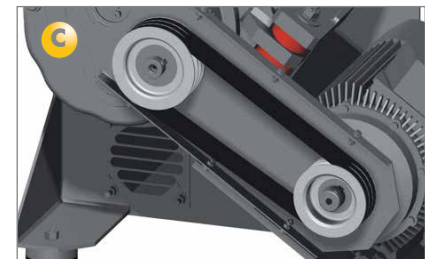
- > no hydraulics required
- > compact and space-saving design
- > ensures trouble-free operation
- > long service intervals

### Trouble-free drive concept

- > high availability and trouble-free operation thanks to powerful drive concept including gearbox damping system **(C)**

### Simple operation and well-planned control system concept

- > automatic detection and shut-down system for nonshreddable items
- > automatic reversing function for motor overload conditions
- > operator-friendly control device on the control cabinet **(D)**
- > automatic shut-off when idling



\*) or 2,000 h, whichever value occurs first



**3-YEARS**  
no-worries  
warranty!\*

#### Options

- > discharge screw conveyors
- > pipe magnets
- > belt conveyors with magnetic separation

## LR630

### LOW PRICE AND HIGH PERFORMANCE

The LR630 is an absolute classic amongst the 1-shaft shredders, its excellent cost/performance ratio being one of its most convincing attributes. It is typically used by joiners processing a wood waste volume of 1 to 7 m<sup>3</sup> per week.

The homogeneous final product is perfectly suited for heat recovery and the production of wood briquettes.

### TYPICAL APPLICATIONS

- Solid wood ▪ Chipboard ▪ Veneer (mixed with wood)
- MDF ▪ Cardboard ▪ etc.



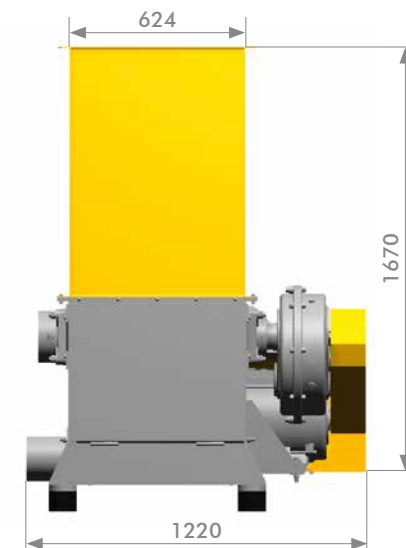
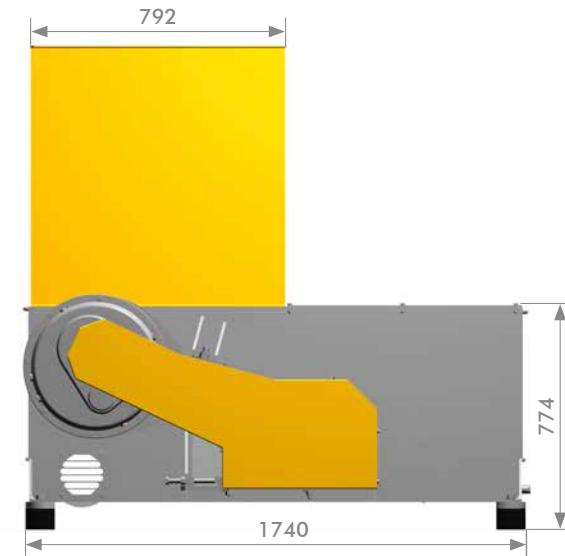
# LR630

## 1-shaft cutting system

TECHNICAL DATA		LR630
Power	kW	11/15/18.5
Hydraulic power	kW	0.75
Rotor Ø	mm	248
Rotor speed	rpm	98
No. of indexable inserts	units	17
Charging hole	mm	624 x 792
Extraction connector Ø	mm	160
Required extraction speed	m/s	28
Weight	kg	appr. 1,300
Noise level pressure LPA1m	dB (A)	82
Perforated screen Ø	mm	15 - 30
Throughput*	cbm	appr. 1 - 2

\*) depending on: quality of material and diameter of perforated screen  
All dimensions in mm.

**40 years of expertise.**  
**More than 9,000 shredders in daily operation!**





## QUALITY FEATURES

### Reliable and economical cutting system

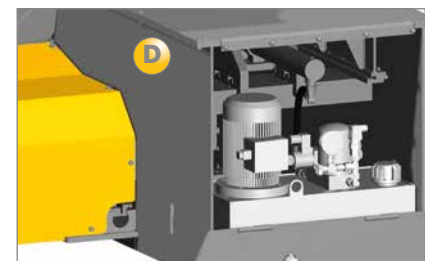
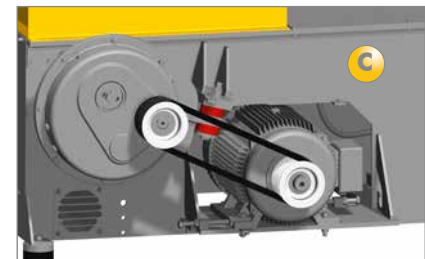
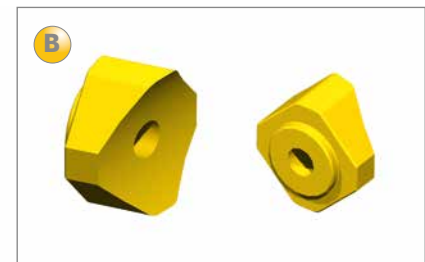
- > replaceable indexable cutters and cutter holders (A)
- > innovative indexable cutter geometry, which enables a pull-through cutting motion – lower power consumption (B)
- > positive fit of indexable cutters and cutter holders
- > precisely defined cutting clearance between indexable cutters and cutting bar

### High availability and trouble free operation

- > tried, tested and proven UNTHA LR cutting system
- > highest quality standards in production
- > high-quality bearings with an extremely long service life
- > powerful drive concept incl. gearbox damping system (C)
- > reliable hydraulic system (D)

### Simple operation and sophisticated control concept

- > automatic foreign material detection and stop
- > automatic reverse function to prevent motor overloading
- > automatic shutoff when idling
- > user-friendly operating panel on the control cabinet





#### Options

- > discharge screw conveyors
- > customer-specific hoppers and base frames
- > pipe magnets
- > belt conveyors with magnetic separation

**3-YEARS**  
no-worries  
warranty!\*

\*) or 2,000 h, whichever value occurs first

## LR700

### COMPACT AND ALL-PURPOSE

The LR700 is a 1-shaft shredder designed for a broad range of applications. Our customers are especially impressed by its compact design and the vast number of possible applications.

The medium-sized machine from the LR range includes the big UNTHA LR Technology Package turning it into an extremely economical shredder.

It is typically used by joiners and carpenters for the reliable shredding of 4 to 12 m<sup>3</sup> waste wood per week.

The homogeneous final product is perfectly suitable for heat recovery and the production of wood briquettes.

### TYPICAL APPLICATIONS

- Solid wood ▪ Chipboard ▪ Cardboard ▪ MDF ▪ Veneer
- Pallets ▪ Bark (Hardwood) ▪ etc.

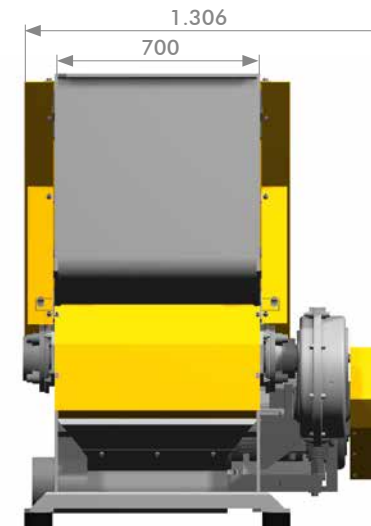
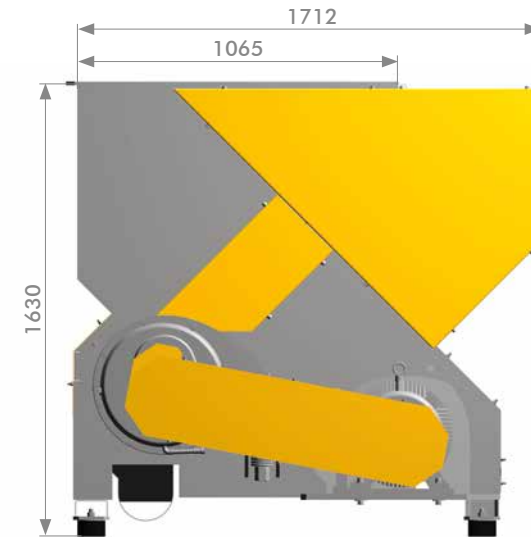


# LR700

1-shaft cutting system

TECHNICAL DATA		LR700
Power	kW	18.5/22
Hydraulic power	kW	1.1
Rotor Ø	mm	300
Rotor speed	rpm	98
No. of indexable inserts	units	19
Charging hole	mm	700 x 1,065
Extraction connector Ø	mm	200
Required extraction speed	m/s	28
Recommended tubing Ø	mm	200
Weight	kg	appr. 1,800
Noise level pressure LPA1m	dB (A)	82
Perforated screen Ø	mm	15 - 40
Throughput*	cbm	appr. 2 - 4

\*) depending on: quality of material and diameter of perforated screen  
All dimensions in mm.



**40 years of expertise.**  
**More than 9,000 shredders in daily operation!**

## QUALITY FEATURES

### Reliable and economical cutting system

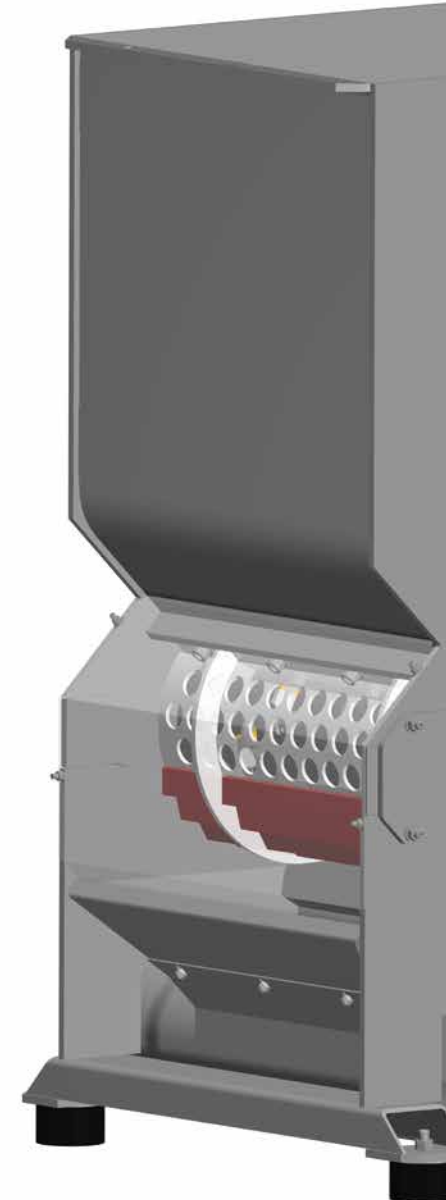
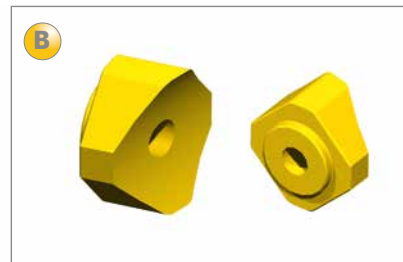
- › replaceable indexable cutters and cutter holders (A)
- › innovative indexable cutter geometry, which enables a pull-through cutting motion – lower power consumption (B)
- › positive fit of indexable cutters and cutter holders
- › precisely defined cutting clearance between indexable cutters and cutting bars

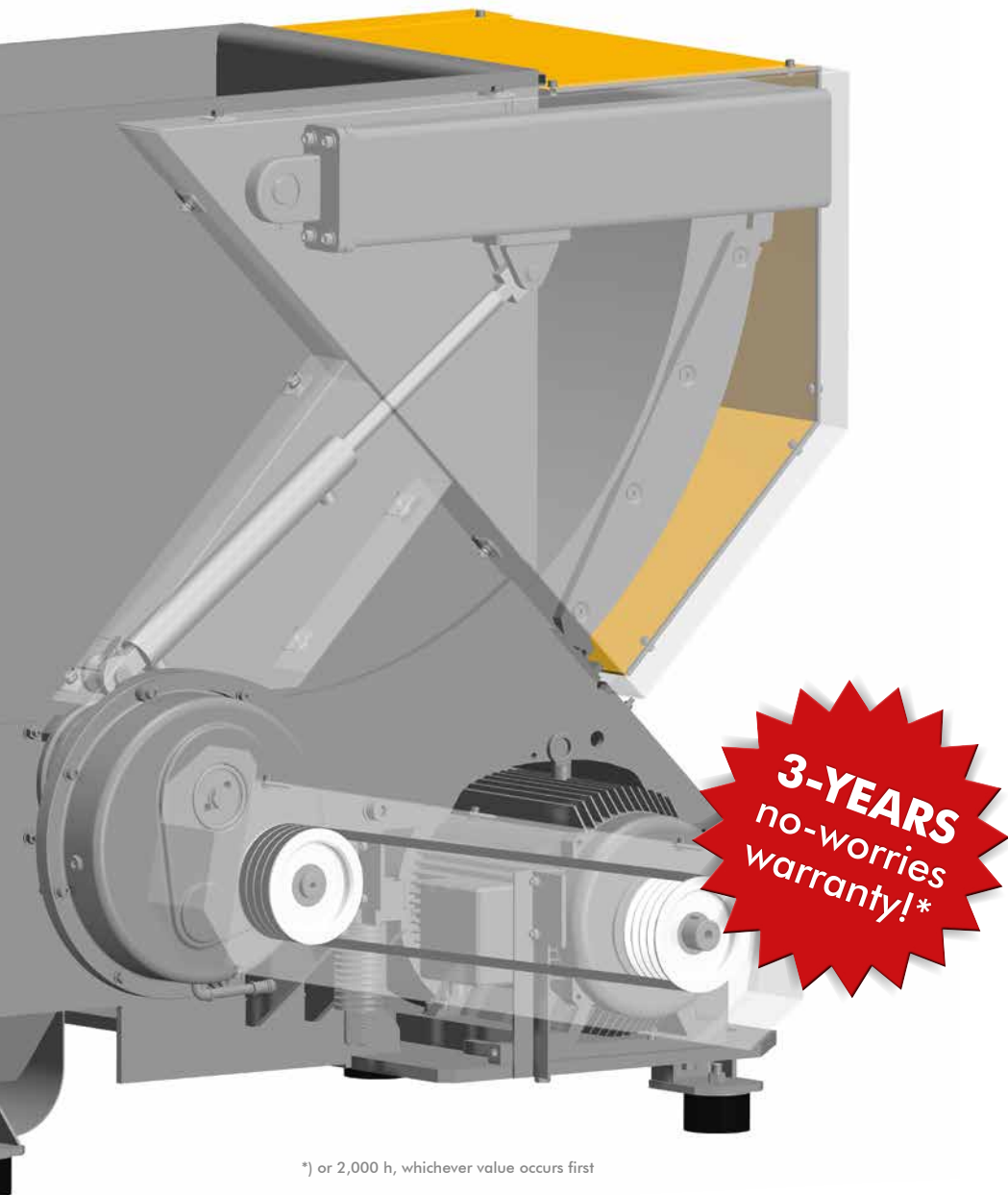
### High availability and trouble free operation

- › tried, tested and proven UNTHA LR cutting system (C)
- › highest quality standards in production
- › high-quality bearings with an extremely long service life
- › powerful drive concept incl. gearbox damping system
- › reliable hydraulic system
- › maintenance-free pusher system

### Continuous and efficient material feeding

- › powerful and wear-free swing pusher design (D)
- › the pusher is pulled towards the cutting area by one hydraulic cylinder on each side





\*) or 2,000 h, whichever value occurs first

#### Simple operation and sophisticated control concept

- > automatic foreign material detection and stop
- > automatic reverse function to prevent motor overloading
- > automatic shutoff when idling
- > user-friendly operating panel on the control cabinet

#### Options

- > discharge screw conveyors
- > customer-specific hoppers and base frames
- > pipe magnets
- > belt conveyors with magnetic separation

#### LR Technology Package

- tried, tested and proven cutting system
- replaceable indexable cutters and cutter holders
- innovative cutter geometry
- powerful swing pusher

## **LR1000/LR1400**

### **EXTREMELY POWERFUL FOR HIGH THROUGHPUTS**

The LR1000 and LR1400 shredders are characterised by their reliability and high performance. The probably best known machine from the LR series is often used for particularly rough applications in which exceptionally high throughputs are needed. Both models are of course also equipped with the UNTHA LR Technology Package.

They are mainly used by joiners, carpenters and sawmill operators who have a waste wood volume of more than 12 m<sup>3</sup>. Thanks to their high reliability, they are also often employed by the wood-working industry.

The homogeneous final product is perfectly suited for heat recovery and the production of wood briquettes.

### **TYPICAL APPLICATIONS**

- Solid wood (logs) ▪ Chipboard ▪ Veneer ▪ MDF
- Cardboard (mixed with wood) ▪ Pallets
- Bark (hardwood) ▪ etc.



# LR1000/LR1400

1-shaft cutting system

TECHNICAL DATA		LR1000	LR1400
Power	kW	22/30/2 x 18.5	30/2 x 22/2 x 30
Hydraulic power	kW	1.1/1.1/1.5	1.5/1.5/1.5
Drive power screw conveyor	kW	0.55	0.55
Rotor Ø	mm	300	300
Rotor speed	rpm	98	98
No. of indexable inserts	units	27/54	38/76
Charging hole	mm	1,000 x 1,050/1,600 <sup>1)</sup>	1,400 x 1,050/1,600 <sup>1)</sup>
Discharge screw Ø	mm	200	200
Extraction connector Ø	mm	250	250
Required extraction speed	m/s	28	28
Recommended tubing Ø	mm	250	250
Weight	kg	2,400 - 2,700	2,800 - 3,500
Noise level pressure LPA1m	dB (A)	appr. 82	appr. 82
Perforated screen Ø	mm	15 - 40	15 - 40
Throughput*	cbm	appr. 2 - 6	appr. 4 - 8

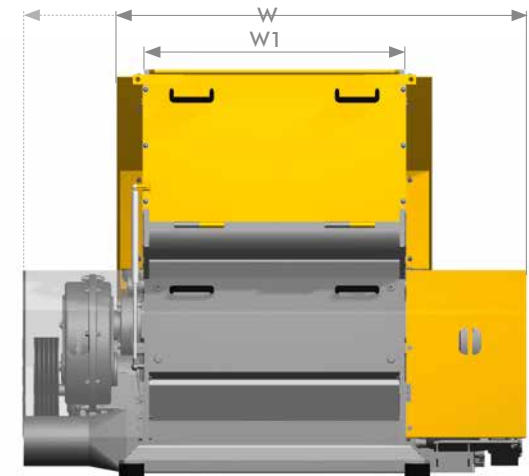
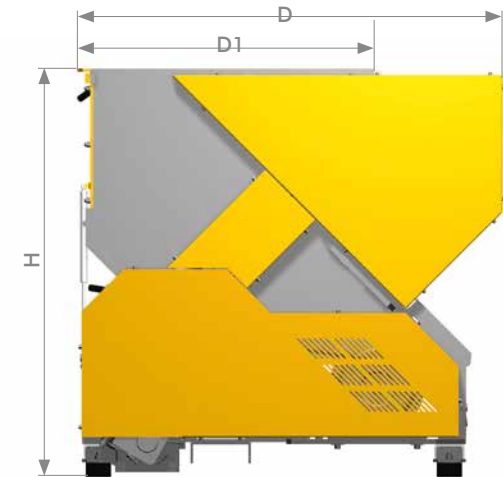
\*) depending on: quality of material and diameter of perforated screen

1) for 45° machine frames

All dimensions in mm.

TYPE/ DIMENSIONS	LR1000	LR1400
W (mm)	1,761/2,010	2,141/2,406
W1 (mm)	1,000	1,400
H (mm)	1,630	1,645
D (mm)	1,704	1,704
D1 (mm)	1,050	1,050

**40 years of expertise.**  
**More than 9,000 shredders**  
**in daily operation!**



## QUALITY FEATURES

### Reliable and economical cutting system

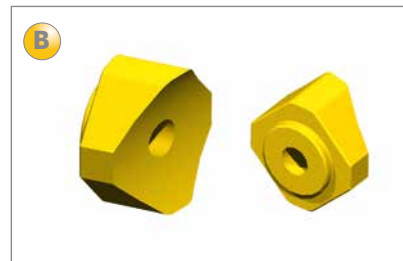
- › replaceable indexable cutters and cutter holders (A)
- › innovative indexable cutter geometry, which enables a pull-through cutting motion – lower power consumption (B)
- › positive fit of indexable cutters and cutter holders
- › precisely defined cutting clearance between indexable cutters and cutting bars

### High availability and trouble free operation

- › tried, tested and proven UNTHA LR cutting system (C)
- › highest quality standards in production
- › high-quality bearings with an extremely long service life
- › powerful drive concept incl. gearbox damping system
- › reliable hydraulic system
- › maintenance-free pusher system

### Continuous and efficient material feeding

- › powerful and wear-free swing pusher design (D)
- › the pusher is pulled towards the cutting area by one hydraulic cylinder on each side





\*) or 2,000 h, whichever value occurs first

#### Simple operation and sophisticated control concept

- > automatic foreign material detection and stop
- > automatic reverse function to prevent motor overloading
- > automatic shutoff when idling
- > user-friendly operating panel on the control cabinet

#### Options

- > discharge screw conveyors
- > customer-specific hoppers and base frames
- > pipe magnets
- > belt conveyors with magnetic separation

#### LR Technology Package

- tried, tested and proven cutting system
- replaceable indexable cutters and cutter holders
- innovative cutter geometry
- powerful swing pusher

## **RS30/RS40**

### **A TRADITION OF RELIABILITY**

The reliable and rugged RS30 and RS40 shredders are often used for processing long solid wooden parts and have a proven track record for decades. These compact machines can stand alone or be integrated into comprehensive systems.

High availability and consistent throughput are hallmarks of these tough and dependable machines.

The homogeneous final product is perfectly suited for heat recovery and the production of wood briquettes.

### **TYPICAL APPLICATIONS**

- Solid wood (long wooden parts, chips) ▪ Veneer
- Cardboard / paper (mixed with wood) ▪ Bark ▪ etc..



# RS30/RS40

## 4-shaft cutting system

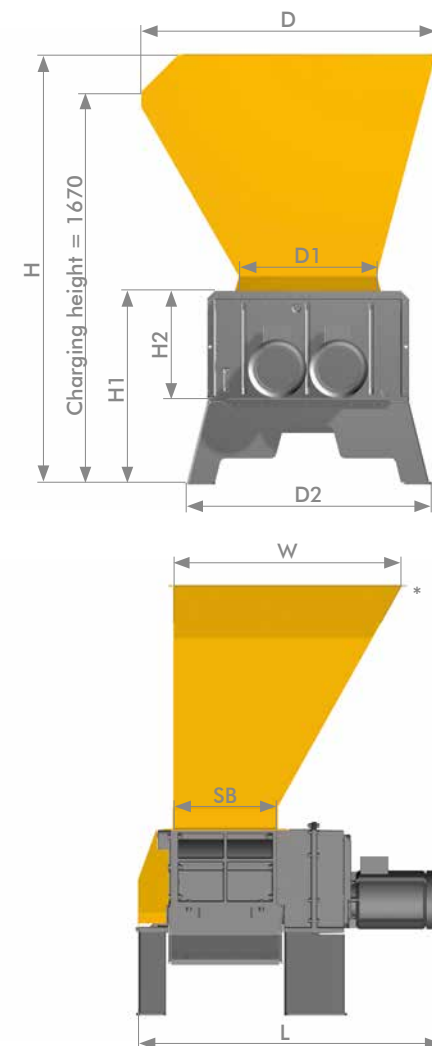
TECHNICAL DATA		RS30	RS40
Power	kW	2 x 5.5/2 x 7.5/2 x 11	2 x 15/2 x 18.5
Charging hole	mm	450 x 560	480/750/960 x 700
No. of cutting shafts	units	4	4
Rotor speed main shaft	rpm	appr. 23	appr. 23
Rotor speed secondary shaft	rpm	appr. 34	appr. 34
Perforated screen Ø	mm	15 - 40	15 - 40
Weight	kg	appr. 1,100	appr. 1,700/2,100/2,400
Noise level pressure LPA1m	dB (A)	appr. 80	appr. 80
Throughput*			
- Screen Ø 15 - 25 mm	kg/h	300 - 700	500 - 1,400
- Screen Ø 30 - 40 mm	kg/h	800 - 1,200	1,100 - 2,000

\*) depending on: quality of material and diameter of perforated screen

TYPE/ DIMENSIONS	SB	L	H	H1	H2	W	D	D1	D2
RS30/2 x 5.5 kW	450	1,250	1,900	820	450	1,000	1,280	560	1,090
RS30/2 x 7.5 kW	450	1,300	1,900	820	450	1,000	1,280	560	1,090
RS30/2 x 11 kW	450	1,340	1,900	820	450	1,000	1,280	560	1,090
RS40/30 kW	480	1,530	1,990	880	500	1,045	1,415	700	1,190
RS40/30 - 37 kW	750	1,800	1,990	880	500	1,315	1,415	700	1,190
RS40/37 kW	960	2,010	1,990	880	500	1,525	1,415	700	1,190

All dimensions in mm. SB= Cutting system width

\* Symbolfoto (hopper and base frame are not included in the scope of delivery)



**40 years of expertise.  
More than 9,000 shredders  
in daily operation!**



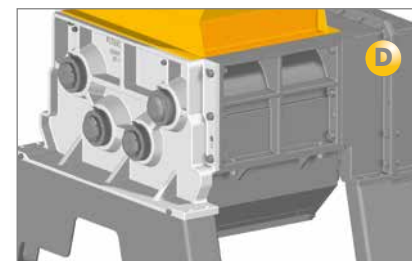
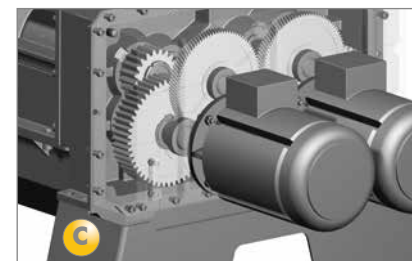
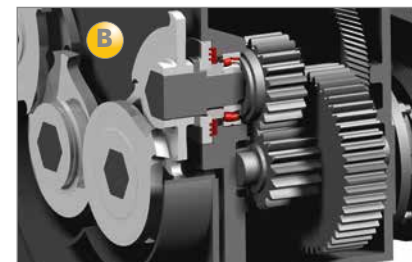
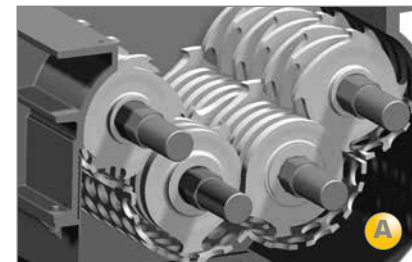
## QUALITY FEATURES

### High availability

- > highest quality standards in production
- > rugged cast frame design **(A)**
- > high-quality bearings with an extremely long service life **(B)**
- > high resistance to foreign material thanks to low-speed cutting shafts
- > straight forward design (couplings etc.) ensures reliable operation
- > heavy-duty cutting disks with integral collars which distribute cutting forces over a wide area
- > die-forged and case-hardened cutting disks
- > reliable drive with two independent motors and heavy-duty gears **(C)**
- > one-step shredding concept (pre- and post-shredding in a single pass) **(D)**
- > automatic material in-feed which makes ram systems superfluous

### Unrivalled in throughput

- > high throughput thanks to very large screen surface and tailored cutter design
- > high torques thanks to slowly rotating cutting shafts
- > little downtime





\*) or 2,000 h, whichever value occurs first

#### Low noise and dust development

- > slow rotation of cutting shafts

#### Sophisticated control concept

- > automatic foreign material detection and stop
- > automatic reverse function to prevent motor overloading
- > automatic shutoff when idling
- > user-friendly operating panel on the control cabinet

#### Options

- > suction hood (suction from all four sides possible)
- > customer-specific feed hopper
- > customer-specific cutting disks tailored to individual requirements
- > customer-specific base frames
- > pipe magnets
- > belt conveyors with magnetic separation

## A SELECTION OF IMPLEMENTED PROJECTS



Application: Joiner's workshop waste  
Solution: LR700  
Options: -  
Location: Poland



Application: Cabinet maker's waste  
Solution: LR1000  
Options: -  
Location: Austria



Application: Sawmill waste and off-cuts  
Solution: LR1400-44 kW  
Options: Custom hopper  
Location: Austria



Application: Shredding of wooden pallets  
Solution: LR1400  
Options: Conveying system  
Location: Germany



Application: Chipboard, pallets  
Solution: LR1400  
Options: Tilting table  
Location: France



Application: Joiner's workshop waste  
Solution: LR520  
Options: -  
Location: Austria



Application: Off-cuts, pallets  
Solution: LR1400  
Options: Custom hopper  
Location: Switzerland



Application: Pallets and pallet production waste  
Solution: LR1400  
Options: Base frame  
Location: Great Britain



Application: Production waste  
 Solution: RS30  
 Options: conveyor for metal deposition  
 Location: Austria



Application: Sawmill waste  
 Solution: LR1400  
 Options: Additional hopper, screw conveyor  
 Location: Austria



Application: Carpenter workshop waste  
 Solution: LR1000  
 Options: Custom hopper  
 Location: Germany



Application: Hard wood board  
 Solution: RS30  
 Options: Extraction hood, pipe magnet  
 Location: Italy



Application: Joiner's workshop waste  
 Solution: LR700  
 Options: -  
 Location: Italy



Application: Carpenter workshop waste  
 Solution: LR1400  
 Options: Custom hopper  
 Location: Italy



Application: Bark  
 Solution: LR1400  
 Options: -  
 Location: Austria



Application: Pallets  
 Solution: LR1400  
 Options: Additional hopper, conveyor for metal deposition  
 Location: Croatia

**40 years of expertise.**  
**More than 9,000 shredders in daily operation!**



## RELIABILITY THROUGHOUT THE LIFETIME OF YOUR UNIT

For UNTHA, reliable customer support is a key priority, right from the word go. With **UNTHA Lifetime Support**, we are taking our idea of customer support one step further. We will support you for the product's whole lifecycle and offer you comprehensive service products to ensure the highest possible availability of the machine.

From regular maintenance work to the supply of original spare and wear parts or our individual carefree packages, we make sure that UNTHA machines are ready for use at all times and do what they were made to do - shred reliably.

## CONTACT UNTHA LIFETIME SUPPORT

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Fax +43 6244 7016 83  
E-mail [service@untha.com](mailto:service@untha.com)  
Web [www.untha.com](http://www.untha.com)

To be able to process your order properly, we would ask you to please have the following information ready:

- > Serial number
- > Machine type
- > Hours of operation
- > Serial number of components (if applicable)
- > Year of manufacture



## OUR MISSION

We have been a reliable and expert partner in the shredding industry for more than 40 years. Based on the latest technologies and with the help of our highly qualified staff, we develop and produce innovative and tailored shredding solutions for all applications.

Our every thought and action revolve around our customers and markets. We provide outstanding products and services of the highest quality and reliability and are therefore able to strengthen our customers' market position.

For us, reliability, credibility and a sound approach to business in both practice and theory are the central values that make our success in international markets possible. These values increase our competitiveness and help us to focus on our core competences and on the ongoing improvement of our business processes. The prerequisites for our success are innovative strength, problem-solving skills and our distinctive quality thinking.



## THE FACTS SPEAK IN OUR FAVOUR





shredding technology

The reliable brand!



#### UNTHA shredding technology

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