

STATIONARY SHREDDING.

LARS JENNISSEN | N+P GROUP READY FOR THE FUTURE OF HIS BUSINESS

BE A WASTE TRANSFORMER. READY FOR THE FUTURE OF YOUR BUSINESS.

#WASTETRANSFORMER



MAKE THE **MOST OF** WASTE.

SHREDDING TECHNOLOGY AND SYSTEMS ENGINEERING FOR THE RECYCLING INDUSTRY OF TOMORROW.

We believe in transforming waste into precious materials. That's why we invest all our knowledge and innovative power in shredding machines and system solutions that are highly efficient, robust, reliable and easy to maintain. So our clients can transform waste into a valuable and reusable resource - efficiently and reliably.

In-house research and development

Production on state-of-the-art machines, using the latest robotics & automation technology

In-house electrical engineering department

Consulting, engineering & system construction

Worldwide service network

Export countries



>500

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INNOVATION AS A PRINCIPLE – QUALITY PROMISED AND DELIVERED

Josef Lindner founded our family business in 1948. He started by planning and producing machines and systems for the wood industry. Today, more than 70 years later, the company is still familyowned, employs over 500 people worldwide and exports to more than 90 countries.

Production still takes place in Austria. In 2022, we moved into our home of recycling, the new company headquarters in Spittal an der Drau in Carinthia, Austria. We manufacture in line with trailblazing production standards on a 14,000 m2 facility using the latest robotics & automation systems. This way, we are able to manufacture the majority of components in-house, guaranteeing our proven Lindner quality and the rapid availability of machines, systems and spare parts.





THERE'S MORE TO IT.



HIGHLY EFFICIENT E-DRIVE

All stationary shredders are equipped with an electromechanical or electro-hydrostatic drive. Lindner not only offers gear drives, but intentionally relies on belt drives with or without countershaft, a technology that has been tried and tested for decades and does not require any special parts. This means that spare parts are readily available should the need arise.

MECHANICAL SAFETY CLUTCH

The torque-limiting safety clutch ensures optimal protection of the drive unit thanks to instant mechanical disengagement. The highly precise sensors ensure a controlled machine shutdown and therefore protection for all components.

Flexibly adjustable, the safety clutch can be adapted precisely to the material, preventing false triggering. The machine is restarted normally after the nonshreddables have been removed, without any need for mechanical resetting.





SUPERIOR WELDING QUALITY

Superbly trained employees and investments in state-of-the-art production and automation systems are the key to unparalleled precision and welding quality.

EASY MACHINE ACCESS

All of Lindner's shredders have two things in common: easy access to the rotor as well as quick and safe access to the screen unit. Thanks to the hydraulically operated, inward-swivelling door for maintenance and non-shreddables, removal nonshreddables can be extracted quickly and safely even if the machine is full. Furthermore, the easy access to the rotor makes it easy and convenient to change the knives. The result: maximum availability and productivity.



PERFECTLY TUNED.



- Low operating costs due to avoidance of power peaks and smooth starts



In-house power electronics included.

Lindner's systems and individual machines perform even under the most extreme conditions – 7 days a week, 365 days a year. The secret - apart from decades of experience - lies in the impressive combination of three essential areas: shredding technology, power electronics and software. This way, all control parameters as well as the mechanical system, the hydraulics and the electronics are always optimally matched and guarantee the best quality and the longest service life.

All advantages at a glance:

- In-house planning and manufacturing
- Special designs for operation in particularly dusty environments
- Variable speed control thanks to the frequency converter that ensures the optimum operating point
- High efficiency for low energy consumption



THE RIGHT **SOLUTION.**



* With metal scrap shaft systems

High performance version

Bale opener











Fire extinguishing system in engine compartment

THE RIGHT **SOLUTION.**



Fire prevention system

UNIVERSO SERIES

Universal Shredding



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Single-shaft shredder with robust, screwable pointed knife system. Defined particle size thanks to round hole or hexagonal screens

Powerful gear drive with proven, high-performance





Power Komet

High performance



ATLAS 5500 AS







OUR UNIQUE FAST EXCHANGE SYSTEM (FX)

The Atlas series has been perfected to give you easy access to the cutting unit and provide two options for removing or changing the entire cutting unit or individual components. The components can be removed from the side via the hydraulically operated, swivelling slider or, after removal of the hopper, from the top.

- The cutting unit can be exchanged quickly, ensuring minimum downtime
- The two quick-change options guarantee maximum flexibility
- Easy and fast removal of the hopper

LINDNER'S DEX – OUR DYNAMIC ENERGY EXCHANGE SYSTEM – FOR MAXIMUM EFFICIENCY

Maximum efficiency is achieved by actively using braking energy when reversing one of the shafts. Top productivity is ensured with an instant, power electronics-controlled reversal of the shaft running direction.

- Innovative, load-dependent energy management
- Highest energy efficiency in operation
- Maximum agility while changing the running direction, up to 3 times faster



THE ATLAS SERIES SOLID TWIN-SHAFT CUTTING SYSTEM

- Solid twin-shaft cutting system
- Aggressive material intake for highest throughputs optimised for defined output material in the primary shredding stage
- Customised shaft tools for different applications
- Solidly built cutting box











DIMENSIONS*		
Measure (LxWxH)	mm	6260 x 3390 x 4810
Hopper opening (DxF)	mm	5470 x 2230
Feeding height (G)	mm	3310
Hopper capacity	m³	18
Outlet width (I)	mm	1510
Total weight	kg	35000
CUTTING UNIT*		
Rotor length	mm	2 x 2380
Rotor speed	min ⁻¹	36
Asynchronous twin-shaft cutting system		AS 4.8 AS 4.12.
DRIVE UNIT*		
Motor	kW	2 x 110
Frequency converter		·

*The stated values refer to standard machine versions with a standard hopper (large) and raised feet.

FPSATB FX 🔶 🔨



ALCOR 5000 SY







HIGHLY EFFICIENT ELECTRO-HYDRO-STATIC DRIVE WITH TORQUE RESERVES

Electro-hydrostatic drive for:

- High torque
- High effectiveness
- Quick change of shaft direction
- High energy efficiency

ALCOR 5000 SY CUTTING SYSTEM

- Synchronous twin-shaft cutting system
- Two shaft types: SF (fine) and SR (rough)
- Perfect for waste wood, C&I, MSW, metal scrap



THE ALCOR 5000 SY CUTTING SYSTEM







Rough waste wood



MSW | C&I waste



metal scrap





		ALCOR 5000 SY
DIMENSIONS*		
Measure (LxWxH)	mm	8495 x 3625 x 4850
Hopper opening (DxF)	mm	6120 x 3625 x 4850
Filling height (G)	mm	3190
Hopper volume	m³	18
Outlet width (I)	mm	1080
Total weight	kg	31500
CUTTING UNIT**		
Length	mm	2500
Speed	min ⁻¹	10 - 30 rpm
Breaker bar	Stk.	4/1
DRIVE		
Motor	kW	355 + 45 auxiliary functions

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*The stated values refer to standard machine versions. **Available: cutting systems for waste wood, MSW, C&I and metal scrap.



JUPITER SERIES







COUNTERSHAFT DRIVE WITH FLY-WHEEL ENERGY STORAGE

Less energy consumption and more power thanks to the countershaft drive that stores and releases rotational energy depending on the load.

- Highest energy efficiency
- Mechanical safety clutch for maximum resistance to non-shreddables
- Consistently high throughput even with tough materials
- Also available as a HP model (high performance model) for even more power and throughput or as BW model for fewer fine particles – perfect for subsequent sorting

SINGLE-SHAFT CUTTING SYSTEM WITH FOUR-FOLD USABLE POINTED KNIVES

- Solidly built knives and knife holders particularly resistant to non-shreddables
- Maximum availability, as knives can be changed quickly
- Easily adjustable cutting gap for optimum output quality



THE JUPITER SERIES CUTTING SYSTEM







Rotor with pointed knives in 3 knife sizes, four-fold usable



		JUPITI	ER 1800		JUPIT	ER 2200		JUPIT	ER 3200		JUPIT	ER 2200	HP
DIMENSIONS*													
Measure (LxWxH)	mm	4800 x 3270 x 4840		5500 x	5500 x 3270 x 4840		6500 x 3270 x 4840		5500 x 3270 x 4840				
Hopper opening (DxF)	mm	3750 x 3000		4090 x	4090 x 3000		5150 x 3000		4090 x 3000				
Filling height (G)	mm	3105		3105	3105		3105		3105				
Hopper volume	m ³	7.5		9	9		12		9				
Outlet width (I)	mm	1020			1020			1020			1020		
Total weight	kg	25800			32750			39000			33750		
CUTTING UNIT*													
Rotor length	mm	1770			2115			3170			2115		
Rotor speed	min ⁻¹	58/87			51/87			58/87			58/87		
Pointed knives	mm	145P	116P	87P	145P	116P	87P	145P	116P	87P	145P	116P	87P
Number of knives	pcs.	20	22	41	24	28	50	36	42	77	24	28	50
Screens: hexagonal/sickle-shaped	I	~			~			~			~		
Number of screens	pcs.	4/1			4/1			6/1			4/1		
DRIVE UNIT*													
Motor	kW	1 x 200)		2 x 132	2		2 x 160)		2 x 200)	
Frequency converter		~			~			~			~		
		JUPITI	ER 1800	BW	JUPIT	ER 2200	BW	JUPITE	R 3200	BW			
DIMENSIONS*													
Measure (LxWxH)	mm	4800 x	3270 x 4	840	5140 x	3270 x 48	340	6200 x	3270 x 48	40			
Hopper opening (DxF)	mm	3750 x	3000		4090 x	3000		5150 x	3000				
Filling height (G)	mm	3105			3105			3105					
Hopper volume	m ³	7.5			9			12					
Outlet width (I)	mm	1020			1020			1020					
Total weight	kg	25450			27950			34400					
CUTTING UNIT*													
Rotor length	mm	1770			2115			3170					
Rotor speed	min ⁻¹	58			58			51					
Pointed knives	mm	145P	87P		145P	87P		145P	87P				
Number of knives	pcs.	20	41		24	50		36	77				
Screens: hexagonal/sickle-shaped		~			~			~					
Number of screens	pcs.	4/1			4/1			6/1					
DRIVE UNIT*													
Motor	kW	1 x 160)		1 x 200)		1 x 250					
Frequency converter		~			~			~					

*The stated values refer to standard machine versions with a standard hopper and raised feet. The right to make technical changes is reserved.



Hydraulic door for maintenance and rer of non-shreddables



Operating position
 Position for removal of non-shreddables
 Position for maintenance

TUDITED 2200

D 2200 HD

KOMET SERIES







TRIED-AND-TESTED BELT DRIVE

- Efficient, robust and gearless belt drive
- Worldwide availability of easy-to-change standard components
- Mechanical safety clutch for maximum resistance to non-shreddables
- HP (high performance) option for even higher productivity
- PK (Power Komet) with 6-pole motor for lower speeds and higher torque for particularly tough materials

PRECISE ROTOR WITH BLADE KNIVES

- High throughputs guaranteed thanks to the strategically positioned knife rows
- Consistent particle size with a cutting gap that is fully adjustable even during operation
- Optimised wear parts storage thanks to identical knives for the rotor, counter knives and scraper
- Maximum uptimes ensured by four-fold usable, quick-change knives



THE KOMET SERIES CUTTING SYSTEM





HP rotor | 7 rows





Rotor with blade knives – four-fold usable



		KOMET 1800	KOMET 2200	KOMET 2800	KOMET 2200 HP	KOMET 2800 HP
DIMENSIONS*						
Measure (LxWxH)	mm	4915 x 2925 x 4840	5755 x 2925 x 4840	6445 x 2925 x 4840	5815 x 2925 x 4840	6700 x 2925 x 4840
Hopper opening (DxF)	mm	1790 x 2030	2135 x 2030	2825 x 2030	2135 x 2030	2825 x 2030
Filling height (G)	mm	3111	3111	3111	3111	3111
Hopper volume	m³	3.3	4	5.3	4	5.3
Outlet width (I)	mm	960	960	960	960	960
Total weight	kg	19600	23300	27500	24000	29900
CUTTING UNIT*						
Rotor length	mm	1770	2115	2805	2115	2805
Rotor speed	min ⁻¹	355	355	355	355	367
Blade knives		172R	172R	172R	172R	172R
Number of knives	pcs.	50	60	80	84	112
Screens: hexagonal/sickle-shaped		~	~	~	~	~
Number of screens	pcs.	5	6	8	6	8
DRIVE UNIT*						
1-step belt drive		~	~	~	~	~
Motor	kW	1 x 200	2 x 132	2 x 160	2 x 200	2 x 250
Frequency converter		~	~	~	~	~
		KOMET 2200 PK	KOMET 2800 PK			
DIMENSIONS*						
Measure (LxWxH)	mm	5755 x 2925 x 4840	6445 x 2925 x 4840			
Hopper opening (DxF)	mm	2135 x 2030	2825 x 2030			
Filling height (G)	mm	3111	3111			
Hopper volume	m ³	4	5.3			
Outlet width (I)	mm	960	960			
Total weight	kg	23300	27500			
CUTTING UNIT*						
Rotor length	mm	2115	2805			
Rotor length Rotor speed	mm min ^{.1}	2115 355	2805 355			
Rotor length Rotor speed Blade knives	mm min ⁻¹	2115 355 172R	2805 355 172R			
Rotor length Rotor speed Blade knives Number of knives	mm min ⁻¹ pcs.	2115 355 172R 60	2805 355 172R 80			
Rotor length Rotor speed Blade knives Number of knives Screens: hexagonal/sickle-shaped	mm min ⁻¹ pcs.	2115 355 172R 60 •	2805 355 172R 80			
Rotor length Rotor speed Blade knives Number of knives Screens: hexagonal/sickle-shaped Number of screens	mm min ⁻¹ pcs.	2115 355 172R 60 • 6	2805 355 172R 80 •			
Rotor length Rotor speed Blade knives Number of knives Screens: hexagonal/sickle-shaped Number of screens DRIVE UNIT*	mm min ⁻¹ pcs.	2115 355 172R 60 • 6	2805 355 172R 80 • 8			
Rotor length Rotor speed Blade knives Number of knives Screens: hexagonal/sickle-shaped Number of screens DRIVE UNIT* 1-step belt	mm min ^{.1} pcs.	2115 355 172R 60 ✓ 6	2805 355 172R 80 • 8			
Rotor length Rotor speed Blade knives Number of knives Screens: hexagonal/sickle-shaped Number of screens DRIVE UNIT* 1-step belt Motor	mm min ⁻¹ pcs. pcs.	2115 355 172R 60 • 6 6 2 × 132	2805 355 172R 80 • 8 8 2 × 160			

POLARIS SERIES







COUNTERSHAFT DRIVE WITH FLYWHEEL ENERGY STORAGE

Less energy consumption and more power thanks to the countershaft drive that stores and releases rotational energy depending on the load.

- Maximum energy efficiency
- Up to 2 x more throughput compared to drives without higher flywheel mass*
- Spare parts available worldwide

* Comparative test by the Institute of Waste Processing Technology and Waste Management, University of Leoben, May 2017

SINGLE-SHAFT CUTTING SYSTEM WITH FOUR-FOLD USABLE SOLIDLY BUILT BLADE KNIVES

- Parts storage made easy thanks to identical knives for the rotor, counter knives and scraper
- Maximum uptimes ensured by four-fold usable, quick-change knives
- Low wear part costs thanks to four-fold usable square knives
- Easily adjustable cutting gap even during operation – for consistently, high-quality output



THE POLARIS SERIES CUTTING SYSTEM





Rotor with blade knives – four-fold usable



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		POLARIS 1800	POLARIS 2200	POLARIS 2800
DIMENSIONS*				
Measure (LxWxH)	mm	4705 x 2925 x 4824	5050x 2925 x 4824	6065 x 2925 x 4824
Hopper opening (DxF)	mm	3745 x 2370	4090 x 2370	4780 x 2370
Filling height (G)	mm	3475	3475	3475
Hopper volume	m ³	8	9	10
Outlet width (I)	mm	960	960	960
Total weight	kg	24600	26000	33800
CUTTING UNIT*				
Rotor length	mm	1770	2115	2805
Rotor speed	min ⁻¹	112	112	112
Blade knives	mm	172RP	172RP	172RP
Number of knives	pcs.	50	60	80
Screens: hexagonal/polygonal		~	~	~
Number of screens	pcs.	5	6	8
DRIVE UNIT*				
Countershaft drive		~	~	~
Motor	kW	1 x 160	1 x 200	2 x 132
Frequency converter		~	~	~

* The stated values refer to standard machine versions with a standard hopper and raised feet. The right to make technical changes is reserved.



Hydraulic door for maintenance and removal of non-shreddables



- Operating position
 Position for removal of non-shreddables
 Position for maintenance

MICROMAT SERIES







POWERFUL DRIVE SYSTEMS

Optional powerful gear drive with high-performance, proven motors for optimum shredding of materials such as rigid plastics, fibres, nets and big bags. Also available with a direct belt drive (HP) for maximum throughputs, for example, when shredding post-consumer films.

MONO FIX TECHNOLOGY

The Mono Fix system allows knives and knife holders to be changed with just one screw. A combination of different pointed and flat knives, as well as blind plates and special counter knives, can also be attached to the rotor. The result:

- Maximum flexibility of the cutting unit
- Maximum adaptation to input and particle size



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THE MICROMAT SERIES CUTTING SYSTEM









* Mono Fix technology

3 knife sizes, four-fold usable

1. Knives

3.

6.

2. Knife holders

4. Clamping bar

Hollow shaft

7. Screen module

5. Scraper

Counter knives



MICROMAT		1500	2000	2500	1500 HP	2000 HP
DIMENSIONS*						
Measure (LxWxH)	mm	3780 x 2480 x 3380	4220 x 2480 x 3380	4720 x 2480 x 3380	4520 x 2635 x 3380	5020 x 2635 x 3380
Hopper opening (DxF)	mm	2290 x 2405	2790 x 2405	3290 x 2405	2290 x 2405	2790 x 2405
Filling height (G)	mm	2594	2594	2594	2594	2594
Hopper volume	m ³	3.4	4.5	5.6	3.4	4.5
Outlet width (I)	mm	1725	2225	2725	1725	2225
Total weight	kg	11700	13700	15700	12000	14000
CUTTING UNIT*						
Rotor length	mm	1525	2025	2525	1525	2025
Rotor speed**	min ⁻¹	63 – 126	63 – 126	63 – 126	167	179
Knives: 43P, 59S	pcs.	77	104	131	77	104
Knives: 65P	pcs.	50	68	86	50	68
Number of screens	pcs.	3	4	5	3	4
DRIVE UNIT*						
Motor	kW	1 x 110	1 x 132	1 x 160	1 x 110	1 x 160

*The stated values refer to standard machine versions with a standard hopper and raised feet. The right to make technical changes is reserved. ** Variable rotor speeds require optional electronic motor speed control system.





Hydraulic door for maintenance and removal of non-shreddables



Operating position
 Position for removal of non-shreddables
 Position for maintenance

UNIVERSO SERIES







HEAVY-DUTY GEAR DRIVE

- Powerful shredding with high-torque, high-performance motors
- Adapts to the material thanks to its variable speeds
- Global availability of all easy-change standard parts.

ROBUST SQUARE CUTTING SYSTEM

- High output rates even with tough materials
- Resistant to non-shreddables thanks to robust knives and knife holders
- Low wear and tear costs due to by four-fold usable, quick-change knives.



THE UNIVERSO SERIES CUTTING SYSTEM





Rotor with pointed knives in 3 knife sizes, four-fold usable

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DIMENSIONS*			
Measure (LxWxH)	mm	6000 x 2900 x 3950	7000 x 2900 x 3950
Hopper opening (DxF)	mm	3985 x 1600	4675 x 1600
Filling height (G)	mm	2960	2960
Hopper volume	m ³	3.7	5
Outlet width (I)	mm	840	840
Total weight	kg	18000	27200
CUTTING UNIT*			
Length	mm	2115	2805
Speed	min ⁻¹	80	80
Standard tool		pointed knives	pointed knives
		43P	43P
Number of knives	pcs.	138	186
Number of screens	pcs.	4	6
DRIVE*			
Туре		gear drive	gear drive
Motor	kW	1 x 132	2 x 110

* The stated values refer to standard machine versions with a standard hopper and raised feet. The right to make technical changes is reserved.



Hydraulic door for maintenance and removal of non-shreddables



Operating position
 Position for removal of non-shreddables
 Position for maintenance

UNIVERSO 2200

UNIVERSO 2800

CREATES VALUE.



Service à la Lindner:

- Original Lindner spare parts made in Austria for that extra level of quality

Lindner's service - simply offering more.

Commitment and professionalism coupled with extensive expertise and original Lindner spare parts made in Austria ensure top-quality service and the highest machine availability. Individual service solutions mean maximum flexibility and minimal downtimes - any day, every day.

Available 24/7 – worldwide

- Remote assistance rapid support with remote maintenance
- High availability of spare parts thanks to extensive in-house production

Maintenance – to keep everything running smoothly:

 Flexible maintenance offers for high machine availability

Spare part packages for every application

• Qualified shaft reconditioning & hardfacing in line with the highest international standards

Lindner-Recyclingtech GmbH