

Universo Series
Micromat Series
Antares Series
Apollo Series



STATIONARY UNIVERSAL SHREDDING





LINDNER

The decisive step ahead – since 1948

We have been building innovative shredding solutions that offer proven success since 1948. As one of the founding companies of this industry, we have played a major role in pushing technical development forward, have set new standards and become established as the specialist for industrial shredders.

At three production locations in Austria, we manufacture machines and plant components that are in operation worldwide.

Our portfolio extends from stationary and

mobile shredders for the waste management industry, to complete systems for plastics recycling and the preparation of RDF and substrates for biomass installations.

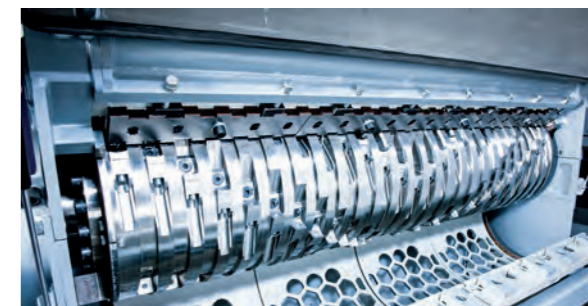
Because by definition quality knows no compromises, we rely upon constant further development and the systematic employment of carefully selected components.

This provides us with the ability to build shredders and systems that stand out due to their reliability, service, friendliness and energy efficiency of the highest standard.

PERSISTENTLY PRECISE – SINGLE-SHAFT TECHNOLOGY

Single-shaft-shredding technology from Lindner with its cutting principle represents a guarantee for constant output with the same fraction size even in the case of problematic materials.

The four times usable, quick and easy to change pointed or step knives and the armoured rotor welding deliver the highest possible productivity during the entire lifespan. If output fraction size requirements change often, various screen sizes in combination with ease of screen change assure high profitability due to short retooling times.



SIMPLY ROBUST – THE LINDNER DESIGN

The Lindner modular design system facilitates the perfect modification of the machine to match individual applications like household and bulky refuse, commercial and industrial waste, plastics, rubber and textiles.

Solid and compact machine design facilitates utilisation in virtually any type of environment. The hydraulic service flap and the quick-change point or square blade inserts ensure short maintenance times and straight forward trapped material removal.



UNIVERSO

Top-performance to the finish line

Completely irrespective of whether you process waste or plastics: the Universo series enables you to cope with the most difficult requirements and achieve high throughput volumes in continuous operation. Robust rotors and features such as the standard safety clutch make the machine resistant to foreign parts. Innovative drive technology ensures smooth shredding. The material can be fed in without any problems by conveyor belt or forklift. The ideal solution for waste and recycling companies with high production volumes.



RELENTLESSLY STRONG – THE MACHINE TECHNOLOGY

Heavy duty drive system

Proven and extremely robust drive concept with a speed range of 60 -130 rpm

Standard safety clutch

as protection against damage to the machine by foreign parts

Hydraulic ram system

optionally with internal force feeder for increased filling volume, simplified loading and avoidance of undesired material leakage



SIMPLY CONVINCING – THE COMFORT FEATURES

Hydraulically movable screen system

for uncomplicated and quick screen change and easy maintenance

Hydraulic maintenance flap

for quick removal of foreign parts and comfortable access to the rotor

Special screens

to minimize fine parts and strip, for optimal preparation of the following processes, e.g. washing systems



MICROMAT

Individuality vigorously implemented

Make your waste fit for the future. Micromat is the answer to your individual production requirements. The model series opens up an enormous spectrum of freely combinable drives, rotors and knives. On top of this are innovations for improved handling – and the special options for precise adaptation of the machine to your material. The ideal shredding solution for recycling or waste management companies as well as for plastics-processing plants who wish to treat their production waste economically.



SIMPLY INTELLIGENT – THE EQUIPMENT

Hydraulic maintenance flap

for quick removal of foreign parts and comfortable access to the rotor

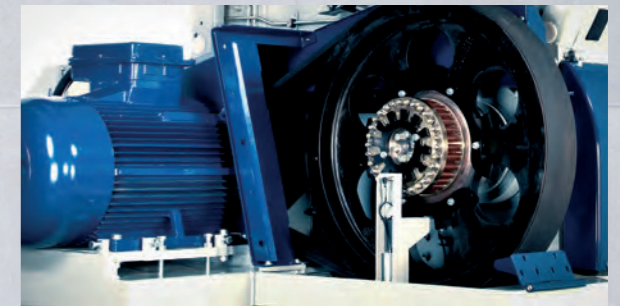


Hydraulically movable screen system

for quick and easy maintenance

Internal hydraulic ram system

for increased filling volume, simplified loading and avoidance of material leakage



Three drive concepts

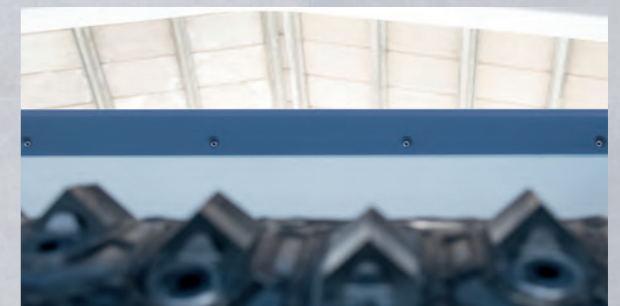
Depending on your material, you have a choice between gear drive, direct drive or the gearless counter-shaft-drive.

HIGHLY VERSATILE – THE VARIANTS



Wet shredder

The wet shredder option (WS), specially developed for contaminated post-consumer plastics, ensures pre-washing of the material and shredding at the same time.



Bale opener

By special extensions such as the optimised cutting system of the bale opener option (BW), the Lindner Micromat becomes a pre-shredder and a bale cutter for defined material flows such as plastics, paper and cardboard.



ANTARES

Smart technology, made strong

Efficient recycling and waste management is all about technology: benefit from the cutting-edge know-how of a leading shredding specialist. The new Antares model series gives you access to all advantages of innovative shredding technology – implemented with economic efficiency in a compact machine. Numerous equipment variants and special options enable precise adaptation of the shredder to your material requirements. The robust construction as well as intelligent comfort functions ensure a smooth production process at all times.



EFFICIENTLY POWERFUL – THE MACHINE CONCEPT

Robust gear drive

for high output and defined fraction size

Optional safety clutch

as protection against damage to the machine

Internal hydraulic ram system

for increased filling volume, simplified loading and avoidance of material leakage

Intelligent operating concept

with position sensors in all relevant areas



BRILLIANTLY UNCOMPLICATED – THE ROTOR ACCESS

The innovative skylight maintenance flap provides quick removal of foreign parts and comfortable access to the rotor.



IDEALLY CONFIGURABLE – THE OPTIONS

- **Rotor cooling**
for heat-sensitive applications
- **Rotor-wearing protection**
for contaminated materials
- **Extended Frame**
to prevent bridging



APOLLO

Finesse in a razor-sharp calculation

Strong, reliable, economic: the Apollo model series makes you ready for recycling. Tailored to companies with low to medium material volumes, the machine enables cost-effective shredding of varying product waste down to defined granulate sizes. The combination of perfected machine technology and intelligent comfort functions guarantees a high degree of operational reliability as well as particularly simple operation and maintenance. Thanks to numerous optional features, the shredder can be tailored precisely to your material requirements.

CLEVERLY CONCEIVED – THE TECHNOLOGY

Robust gear drive

Different performance classes make it possible to adapt the proven drive concept to your customised requirements.

Intelligent operating concept

The sophisticated system with position sensors in all relevant areas always ensures safe operation of the machine.

Hydraulic ram system with spikes

A special force feeder design effectively prevents uncontrolled release of slight fractions and ensures continuous material feed.



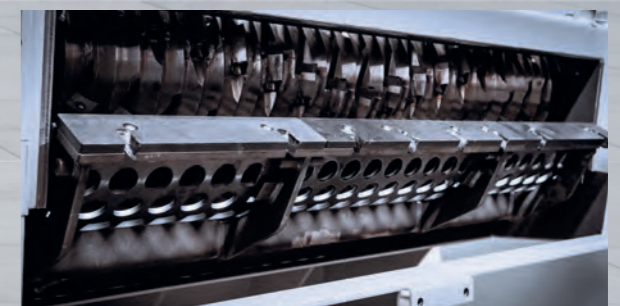
INGENIOUSLY SIMPLE – THE SERVICING ACCESS

A newly developed moveable hopper and easily changeable screens enable fast cleaning of the machine and an optimum access for maintenance work.



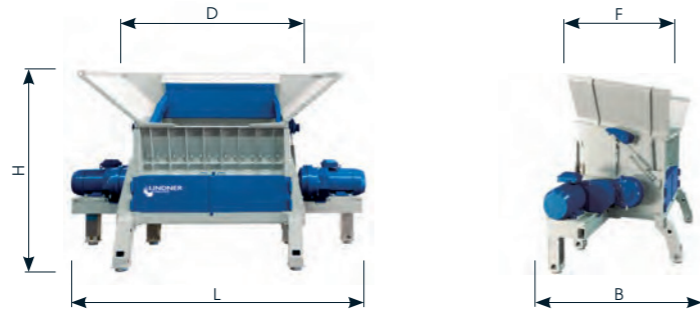
INDIVIDUALLY ADAPTABLE – THE OPTIONS

- **Rotor cooling**
for heat-sensitive applications
- **Rotor-wearing protection**
for contaminated materials
- **Extended Frame**
to prevent bridging



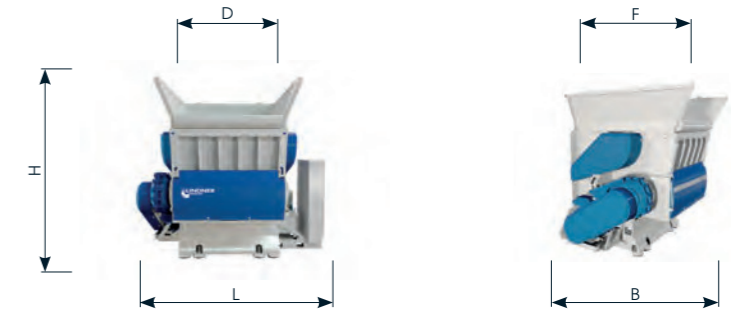
TECHNICAL DATA

UNIVERSO



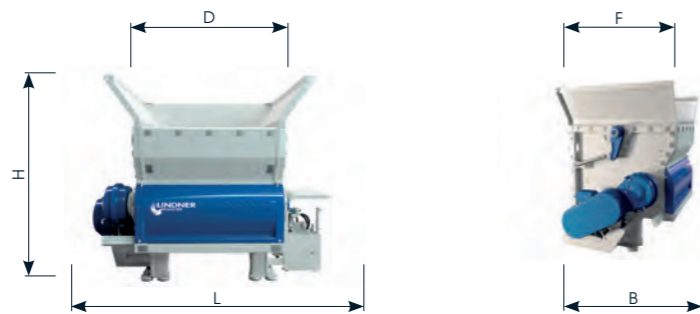
		2200 Single drive	2200 Double drive	2800 Double drive
Dimensions*				
Measure (LxBxH)	mm	6000 x 2900 x 3950	6200 x 2900 x 3950	7000 x 2900 x 3950
Filling opening	mm	3985 x 1600	3985 x 1600	4675 x 1600
Filling height	mm	2960	2960	2960
Total weight	kg	18	21	27,2
Cutting unit*				
Rotor length	mm	2115	2115	2805
Rotor speed	min ⁻¹	80	80	80
End grain size	mm	20 – 600	20 – 600	20 – 600
Drive Unit*				
Motor	kW	1 x 132	2 x 110	2 x 110

ANTARES



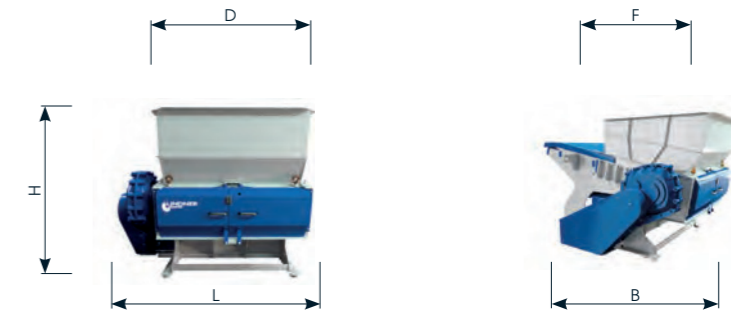
		1000	1300	1600	1900
Dimensions*					
Measure (LxBxH)	mm	2770 x 2628 x 2998	3084 x 2628 x 2998	3393 x 2628 x 2998	3701 x 2628 x 2998
Filling opening	mm	1360 x 2486	1668 x 2486	1977 x 2486	3290 x 2486
Filling height	mm	2425	2425	2425	2425
Total weight	kg	6,7	7,2	8	8,8
Cutting unit*					
Rotor length	mm	950	1258	1567	1875
Rotor speed	min ⁻¹	99	99	99	99
End grain size	mm	10 – 80	10 – 80	10 – 80	10 – 80
Drive Unit*					
Motor	kW	1 x 45	1 x 55	1 x 75	1 x 90

MICROMAT



		2000 Gear drive	2000 Belt drive	2500 Gear drive	2500 Belt drive
Dimensions*					
Measure (LxBxH)	mm	4217 x 2478 x 3380	5019 x 2633 x 3380	4717 x 2478 x 3380	5519 x 2633 x 3380
Filling opening	mm	2790 x 2405	2790 x 2405	3290 x 2405	3290 x 2405
Filling height	mm	2594	2594	2594	2594
Total weight	kg	13500	14000	15500	16000
Cutting unit*					
Rotor length	mm	2025	2025	2525	2525
Rotor speed	min ⁻¹	79	265	79	265
End grain size	mm	15 – 100	15 – 100	15 – 100	15 – 100
Drive Unit*					
Motor	kW	1 x 110	1 x 132	1 x 132	1 x 160

APOLLO



		700	1000	1600
Dimensions*				
Measure (LxBxH)	mm	2299 x 1725 x 2030	2655 x 2070 x 2030	3242 x 2321 x 2030
Filling opening	mm	700 x 1200	1000 x 1400	1600 x 1700
Filling height	mm	2030	2030	2030
Total weight	kg	3600	4400	6800
Cutting unit*				
Rotor length	mm	650	1000	1600
Rotor speed	min ⁻¹	60 – 110	50 – 110	60 – 110
End grain size	mm	10 – 80	10 – 80	10 – 80
Drive Unit*				
Motor	kW	15 – 30	30 – 45	55 – 75

SERVICE

Keeping machines in great shape

Hundreds of robust Lindner shredders are in operation and are subject to the toughest conceivable conditions on a day-to-day basis. Accordingly, the Lindner service team is on call worldwide in order to keep them in top form for efficient operation.

Professional maintenance and servicing in combination with top quality original spare parts ensure consistently first class operation and prolonged machinery service life.

- Commissioning and training by qualified, specialist personnel
- Individual machine fine-tuning on the spot
- Entirely original spare parts for top quality
- Rapid assistance via the professional service hotline
- Customised service and wear part packages
- Fast worldwide spare part delivery
- Machine cleaning and tool preparation

MACHINE CHECKS

Regular preventive checks by Lindner technicians save both time and money. Wear can thus be identified at an early stage and downtimes minimised. The status of the machine is analysed and documented during audits and as a result servicing can be ideally timed to match production sequences.



MIS – MACHINE INFORMATION SYSTEM

The Lindner MIS system enables detailed process monitoring and the information thus obtained facilitates production optimisation. In fact, MIS provides a platform for continuous improvements in productivity.



THE LINDNER GROUP

At your service – worldwide



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