LINDNER

APPLICATION SOLUTIONS
LIGHT SCRAP RECYCLING

BRILLIANT PERFORMANCE.

BE A WASTE TRANSFORMER.

READY FOR THE FUTURE OF YOUR BUSINESS.

FELIX SCHUSTER | SCHUSTER METALL
READY FOR THE FUTURE OF HIS 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
> 90

Employees worldwide
> 500

Locations worldwide
8

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 family-owned, 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.

HARD CURRENCY.

When processing light scrap such as scrap iron, sheet metal, aluminium profiles, old cables and electronic scrap, the focus is on the shredder. Metals and old cables are particularly resistant and durable during the shredding process. Bulky and long metal parts are converted into a sortable product that takes up significantly less volume. The end product can be reintroduced directly into the cycle or subjected to further processing, including melting.

THE APPLICATION MAKES THE DIFFERENCE. SINGLE-SHAFT OR TWIN-SHAFT TECHNOLOGY

The choice between single-shaft or twin-shaft technology depends on various factors, including the starting material, the desired grain size of the end product and its intended use. The Lindner Urraco and Alcor series twin-shaft cutting systems offer an outstanding increase in efficiency with a grain size of 250 to 350 mm, especially if a hammer mill is used in the next step. When recycling aluminium sheets and aluminium profiles with a thickness of 1-2 mm, single-shaft shredders are also used for moderate contamination. This is particularly the case when high throughputs and a defined grain size <100 mm are required. In cable recycling, cables are mostly shredded in a two-step process to achieve a homogeneous and defined grain size of <60 mm and to break up the plastic coating. This allows for easy separation of the copper wires and plastic components in subsequent processes.

PROVEN ADVANTAGES OF THE MOBILE & STATIONARY 2-SHAFT CUTTING SYSTEM

- Increased overall efficiency of the post hammermill processing
- Increased throughput of the customers post processing
- Protection from non-shreddables entering the customers Hammermill
- Protection from propane tanks / explosive items from entering the hammermill
- Reduced wear and maintenance on the hammermill
- Reduction of unplanned downtime events with hammermill operation

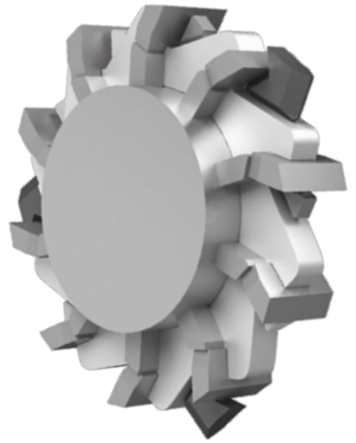
OPTIMIZED OUTPUT

When recycling scrap metal, the first step in the process is to reduce the volume. This leads to an increased bulk density and thus to better yields in the next step. Lindner's mobile shredders cut and crush the materials at the same time with their twin-shaft cutting systems, which additionally break up mixed materials such as aluminium-iron or aluminium-plastic compounds to obtain the ideal particle size for subsequent sorting. This is an essential step because the source material's purity is crucial for subsequent recycling.

CUTTING SYSTEM SCRAP METAL

Final output: 250 – 350 mm

- Optimised, particularly sturdy geometry for metal shredding
- Reinforced knife holders for harder materials such as metal sheets, aluminium profiles, cooking utensils etc.



SIMPLY PERFECT.

‘We are more than happy with the throughput rate and are particularly pleased that the shredder handles non-shreddables with ease, which do show up from time to time’

Matthias Köhler,
Managing Director at Loacker Recycling,
Wonfurt site.

APPLICATION NOTE - POLARIS 2800:

Shredder	Polaris 2800 (special equipment: rotor cooling)
Cutting system	172 RP5
Material	Cable
Throughput*	Up to 5 t/h
Particle size*	90 % < 60 mm

*Depending on input material and configuration

For detailed product information, pictures and videos:

AS EASY AS PIE.

APPLICATION NOTE - URRACO 95 DK:

Shredder	Urraco 95 DK
Cutting system	HW 6.8 UK
Material	Aluminium profiles
Throughput*	Up to 40 t/h
Particle size*	90 % < 500 mm

*Depending on input material, shaft condition and shaft configuration

For detailed product information, pictures and videos:

STEADYFAST RESULTS.

APPLICATION NOTE - ALCOR 5000 SY:

Shredder	Alcor 5000 SY
Cutting system	HW 8.10 scrap
Material	Aluminium
Throughput*	Up to 25 t/h
Particle size*	90 % < 300 mm

*Depending on input material, shaft condition and shaft configuration

For detailed product information, pictures and videos:

MIXED SCRAP METAL

SHINING PERFOR-MANCE.

APPLICATION NOTE - URRACO 4000 DK:

Shredder	Urraco 4000 DK
Cutting system	SR 8.8 UK
Material	Mixed scrap metal
Throughput*	Up to 30 t/h
Particle size*	90 % < 300 mm

*Depending on input material, shaft condition and shaft configuration

For detailed product information, pictures and videos:

A CLASS OF ITS OWN.

APPLICATION NOTE - URRACO 95 DK:

Shredder	Urraco 95 DK
Cutting system	HW 6.8 UK
Material	Car bodies
Throughput*	Up to 25 t/h
Particle size*	90 % < 300 mm

*Depending on input material, shaft condition and shaft configuration

For detailed product information, pictures and videos:

CREATES VALUE.

Lindner NEXUS.
The service platform that connects.

Real-time machine data, performance monitoring & maintenance.

With Nexus, the new Lindner service platform, you have an overview of all relevant machine data. Using the Nexus Gateway, real-time machine data is transferred to the digital platform and summarised in customisable reports. The platform also provides all documentation relevant to the system or the individual shredders, as well as updates. The Lindner service and support team can also be reached via Nexus. In urgent cases even 24/7.

Service à la Lindner:

- Lindner Nexus - digital service platform for customised performance monitoring
- Available 24/7 – worldwide
- Remote assistance – rapid support with remote maintenance
- High availability of spare parts thanks to extensive in-house production
- Original Lindner spare parts made in Austria for that extra level of quality

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

Manuel-Lindner-Strasse 1 | 9800 Spittal/Drau | Austria
t.: +43 4762 2742 | f.: +43 4762 2742-9032 | office@lindner.com

www.lindner.com