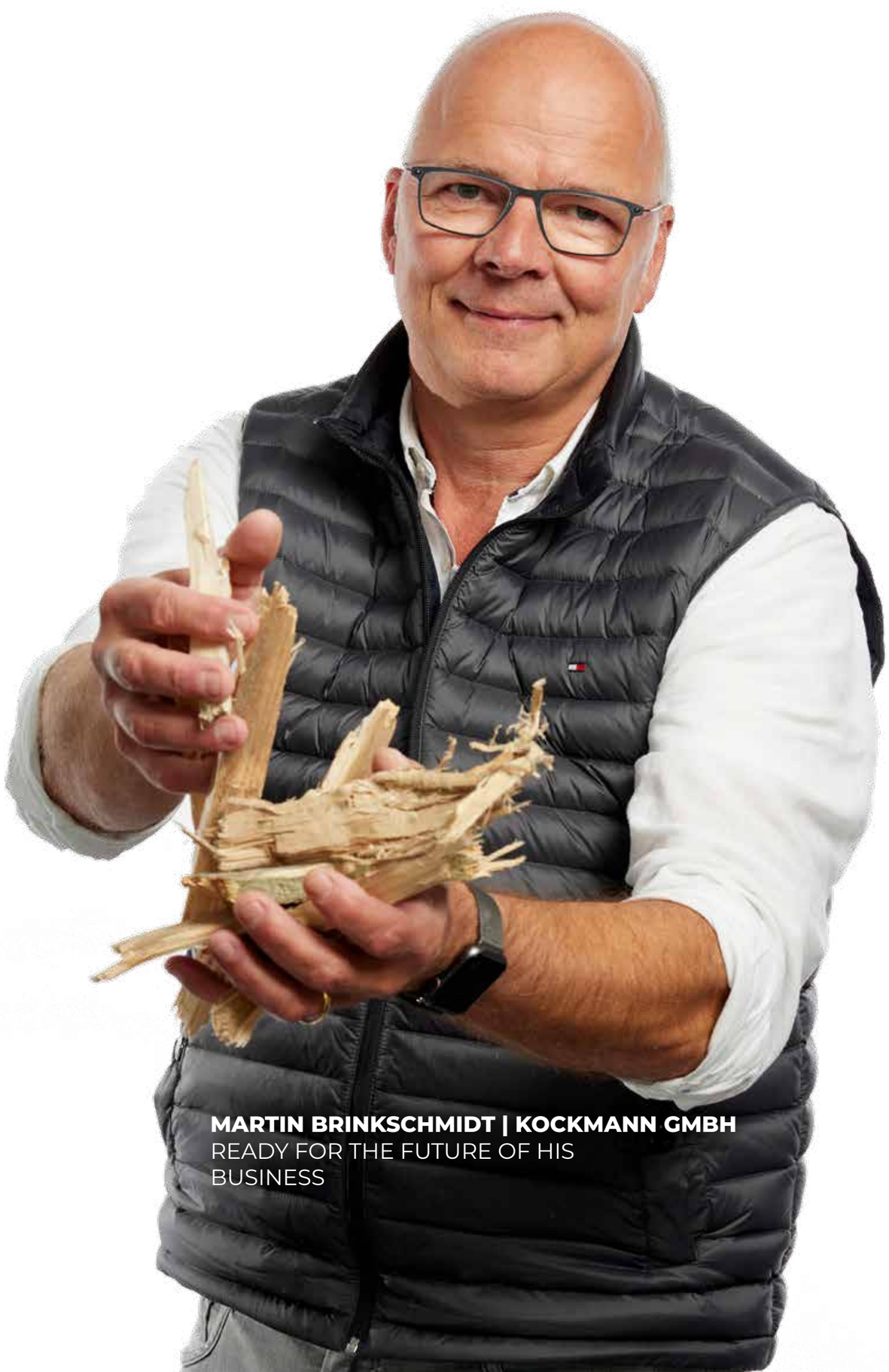
LINDNER

APPLICATION SOLUTIONS
WASTE WOOD RECYCLING

NATURALLY POWERFUL.



MARTIN BRINKSCHMIDT | KOCKMANN GMBH
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
> 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.

TURN OLD INTO NEW.

THE RIGHT WAY TO RECOVER WASTE WOOD.

VIRGIN OR SLIGHTLY CONTAMINATED – GRADING WASTE WOOD

Recovering waste wood properly plays an important part in environmental protection. The degree of contamination of the material determines its further use. The grading structure may vary from country to country. In Germany, for example, there are four grades. Waste wood of grades A I and A II can be sent for recycling, e.g. in chipboard production. Grades A III and A IV are usually only suitable for incineration.

GRADING – AN OVERVIEW

A I	Virgin or only mechanically processed waste wood, minor contamination, e.g. solid wood panels, virgin wood on building sites, untreated solid wood furniture, etc. – particularly suitable for recycling
A II	Glued, coated, painted, without organohalogen compounds or wood preservatives, e.g. pallets, clippings from composite wood, structural chipboard, etc.
A III	Treated, coated, with organohalogen compounds, without wood preservatives, e.g. bulky waste wood (mixed materials, coated furniture, etc.)
A IV	Treated, coated, with organohalogen compounds, without wood preservatives, e.g. bulky waste wood (mixed materials, coated furniture, etc.)

STRICT STANDARDS – SOLID BIOFUEL CLASSIFICATION

Selecting the shredding technology for subsequent incineration or recycling of waste wood always depends on the required end product. The more defined the final particle size, the easier it is to feed into subsequent processes. The ISO 17225-1 standard describes the different specifications in great detail in terms of the required particle sizes.

TYPICAL PARTICLE SIZES IN LINE WITH EN ISO 17225-1

Class	main fract. 60 %	max. coarse fract.	max. length
P16	< 16 mm	6 % > 31,5 mm	45 mm
P45	< 45 mm	10 % > 63 mm	350 mm
P63	< 63 mm	10 % > 100 mm	350 mm
P100	< 100 mm	10 % > 150 mm	350 mm
P200	< 200 mm	10 % > 250 mm	400 mm

WASTE WOOD GRADES

A I – VIRGIN, ONLY MECHANICALLY PROCESSED

A II – TREATED, NO ORGANOHALOGEN COMPOUNDS

A III – TREATED, WITH ORGANOHALOGEN COMPOUNDS

A IV – TREATED, WITH WOOD PRESERVATIVES

VOLUME DOWN, VALUE UP.

APPLICATION NOTE - URRACO 5000 EK:

Shredder	Urraco 5000 EK
Cutting system	SF 10.11 wood
Material	Waste wood A1-A3
Throughput*	Up to 92 t/h
Particle size*	90 % < 130 mm

*Depending on input material, shaft condition and shaft configuration

For detailed product information, pictures and videos:

CEATING VALUE.

APPLICATION NOTE - POLARIS 2800:

Shredder	Polaris 2800
Cutting system	172 RP5
Material	Waste wood A1-A3
Throughput*	Up to 40 t/h
Particle size*	90 % < 200 mm

*Depending on input material and rotor condition

For detailed product information, pictures and videos:

WHERE POWER MEETS EFFICIENCY.

APPLICATION NOTE - URRACO 4000 DK:

Shredder	Urraco 4000 DK
Cutting system	SR 12.9 wood
Material	Railroad ties
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:

GREEN TRANS-FORMATION.

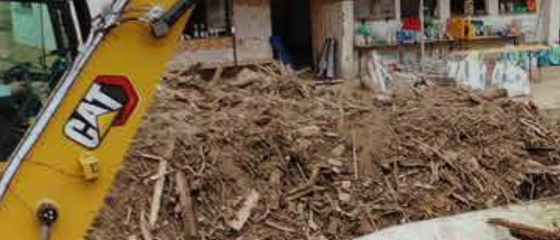
APPLICATION NOTE - URRACO 4000 DS:

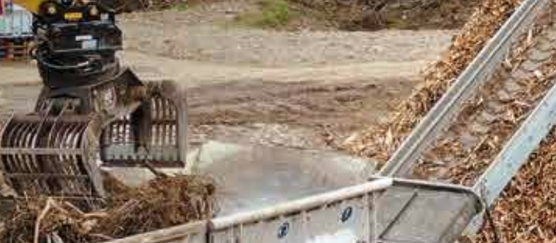
Shredder	Urraco 4000 DS
Cutting system	SR 10.9 UK
Material	Green waste
Throughput*	Up to 50 t/h
Particle size*	90 % < 300 mm

*Depending on input material, shaft condition and shaft configuration

For detailed product information, pictures and videos:

POWERFUL IMPACT.





APPLICATION NOTE - URRACO 95 DK:

Shredder	Urraco 95 DK
Cutting system	LW 10.10
Material	Rootstocks
Throughput*	Up to 50 t/h
Particle size*	90 % < 350 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

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