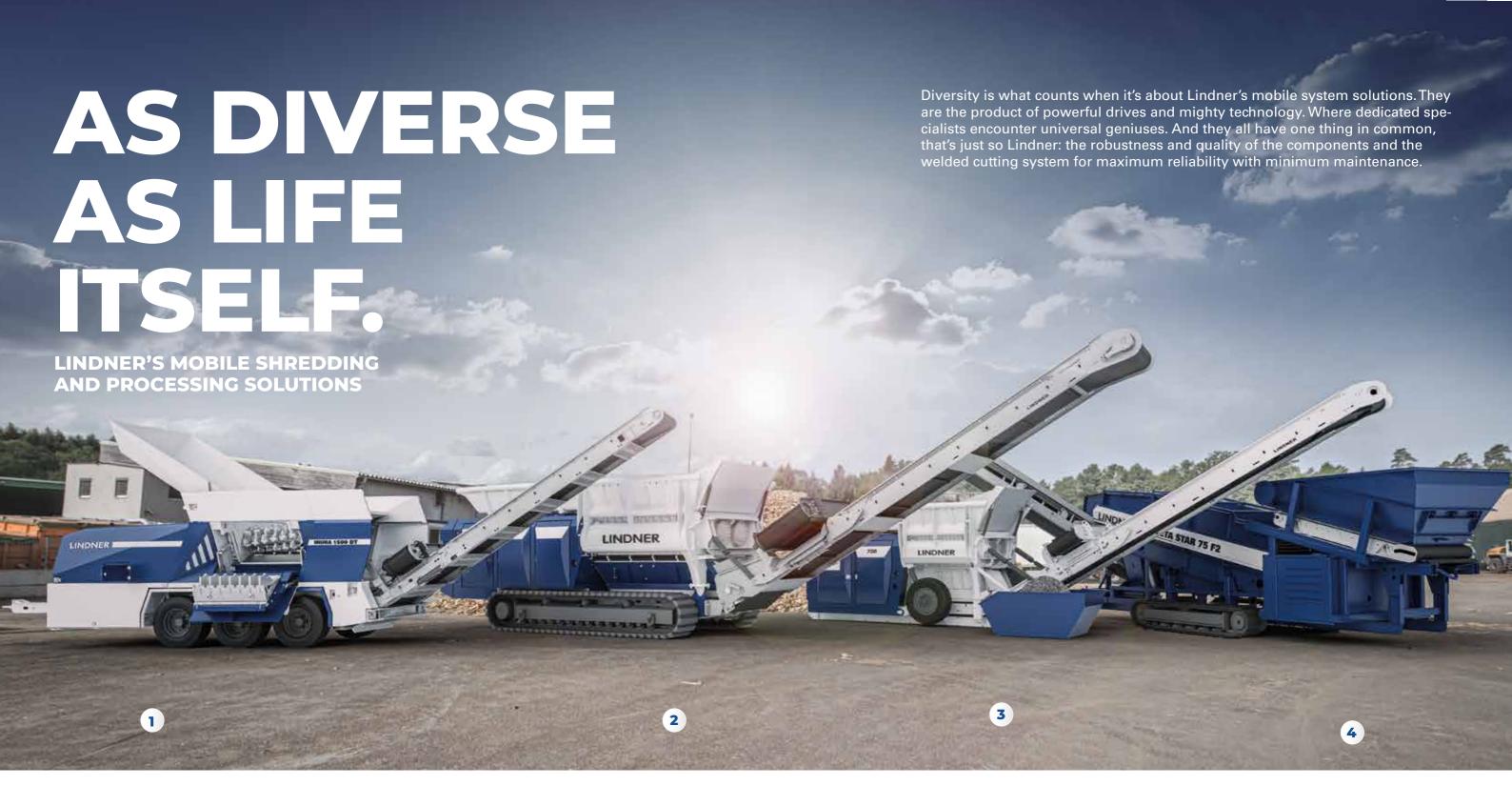


SYSTEM SOLUTIONS MOBILE SHREDDING

WIN EVERY RACE.





1 MIURA 1500 DT | DK

Ingeniously flexible: With the innovative FX fast exchange system, the Miura twin-shaft shredder is ready for action in a minimum amount of time, making long maintenance breaks unnecessary. Thanks to its 3-axle trailer it can be conveniently transported to any desired location or easily manoeuvred on site using the tracked cassis.

2 URRACO 95 DK

Endlessly powerful: Thanks to its extremely powerful engine, a shaft length of 2500 mm and its aggressive intake, Lindner's Urraco 95 DK twin-shaft shredder makes short work of any material. Enjoy an incredibly reliable machine with low wear and tear, easy maintenance and low energy consumption per shredded tonne.

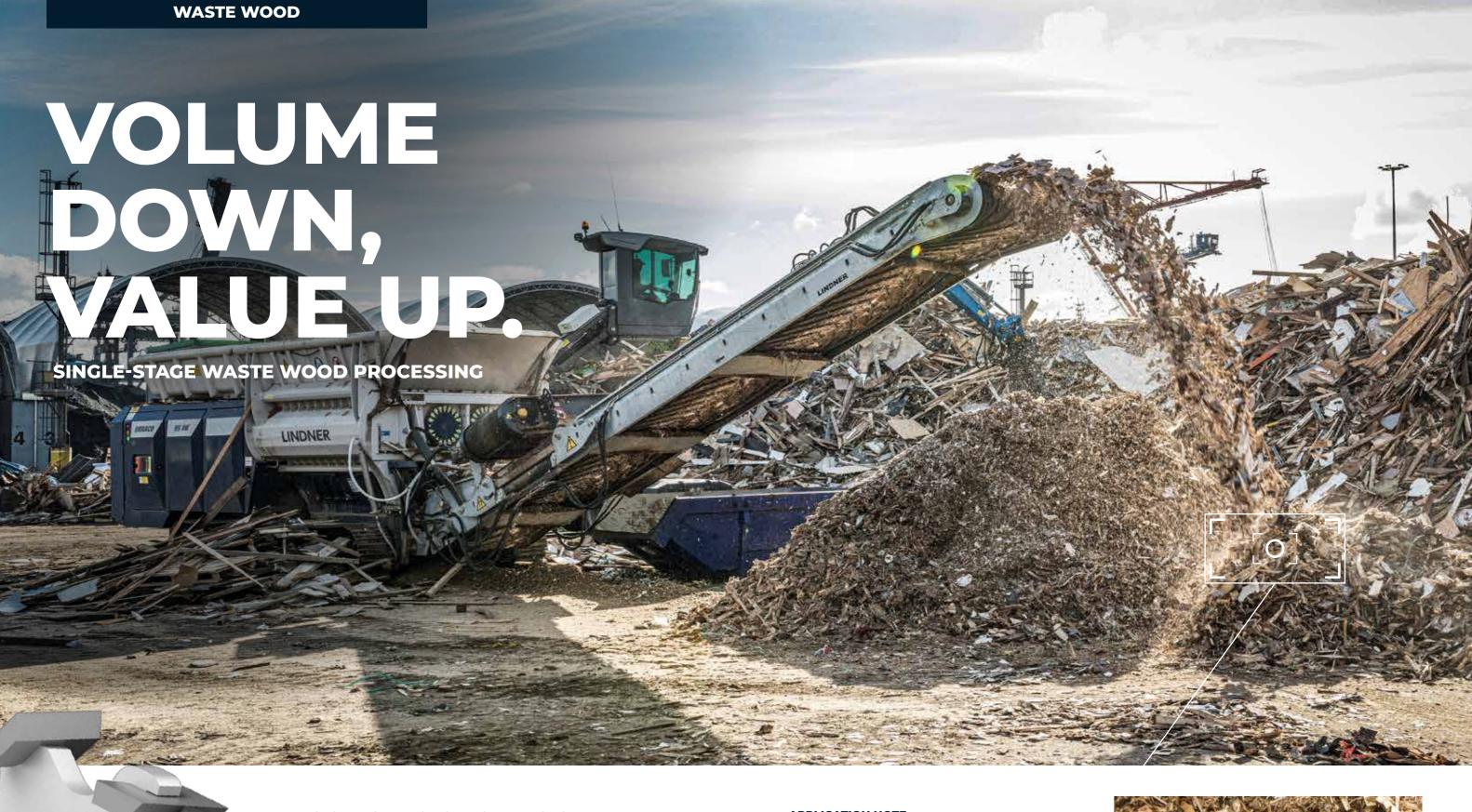
3 URRACO 75 D | DK | E

Compact yet incredibly strong: A robust design with powerful diesel engines or electric motors, Lindner's Urraco 75 shreds even difficult materials with its two 1500 mm long shafts. Depending on the mobility required, it is available with a wheel axle and drawbar, heavy crawler-tracked chassis or as a stationary version.

4 ZETA STAR 75 F2 D/DK | 95 F2 DK

Extremely precise: This winning combination of triedand-tested shredding technology and incredibly flexible screening equipment make Lindner's Zeta Star screens the ideal companion for every mobile Urraco and Miura shredder. Together, they are a turn-key, highly efficient system solution for turning waste wood into a strictly standardised end product.

4



THE FIRST STEP TOWARDS HIGH PROFIT MARGINS

Transporting waste wood over long distances to the recovery site is not economically viable without volume reduction. It makes perfect sense to shred the material on site at the collection centre to significantly reduce the number of required containers. An overbelt magnet fitted right after the shredder is also able to directly remove metals such as nails or screws from the shredded material. The resulting fraction can then be recovered directly, for example, depending on the combined heat and power plant's design. Alternatively, it can be processed further with less effort, as the first process step has already been completed.

APPLICATION NOTE:

Shredder	Urraco 95 DK
Engine	diesel hydraulic
Cutting system	synchronous fine SF 12.10
Screen	

waste wood A1-A4
up to 65 t/h
90% < 180 mm





GUARANTEED STANDARDISED

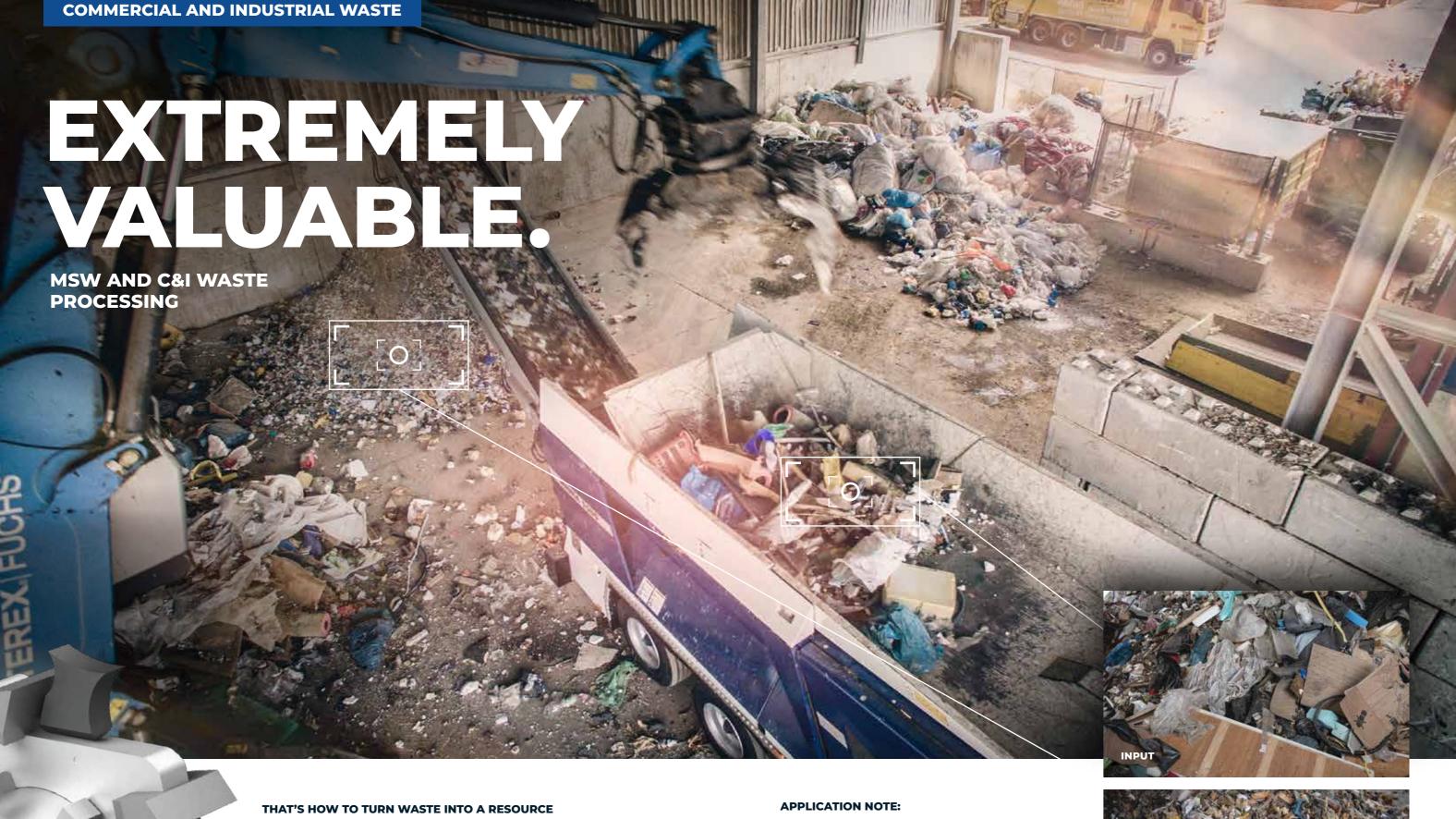
For a proper energy recovery from waste wood in power plants, the particles need to be homogenous and defined, since conveying and combustion equipment is always designed with specific particle sizes in mind. The widely used P63 F5 classification is a required fuel specification according to EN ISO17225-1, which specifies that the bulk of the particles must be smaller than 63 mm. It also states that only up to 10% of the oversized particles may be larger than 100 mm and fine particles smaller than 3.15 mm cannot constitute more than 5% of the final output. To achieve this, the perfectly matched star screen from the Zeta Star series is installed after the shredder, which can produce the coarser P100 particles without any problems thanks to Lindner's patented cutting unit, resulting in only the finest materials for recovery without oversized particles.

APPLICATION NOTE:

Shredder	Urraco 75 DK
Engine	diesel hydraulic
Cutting system	synchronous fine SF 10.8
Screen	Zeta Star 75 DK
Material	waste wood A1-A3

Material	waste wood A1-A3
Throughput	up to 25 t/h
Final output	P63 (EN ISO17225-1)

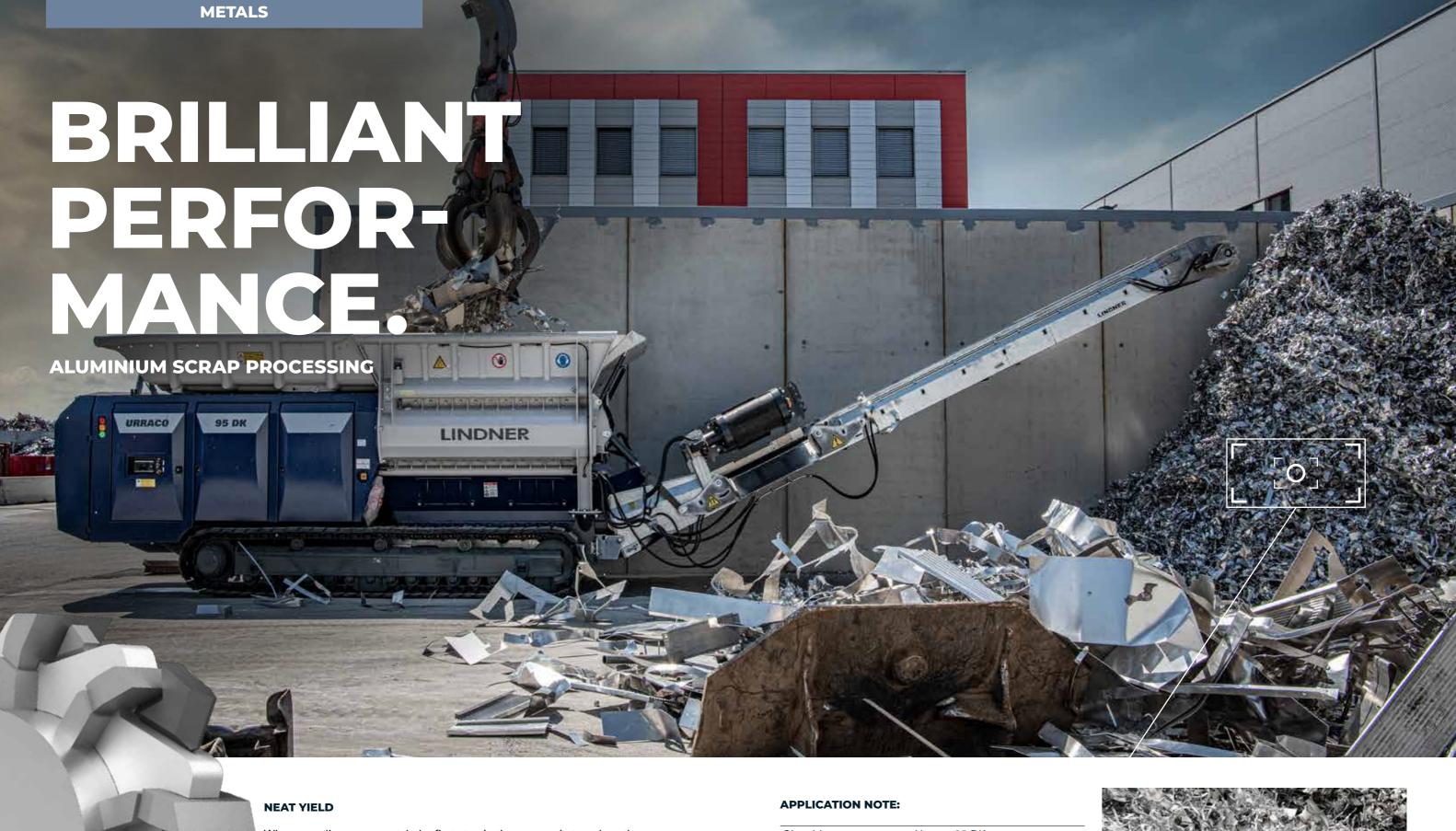




When recovering municipal solid, commercial and industrial waste, it is important to first shred the material roughly. The reduction in volume and the direct elimination of ferromagnetic metals makes material handling easier and reduces transport costs accumulated between decentralised collection centres and larger RDF/SRF processing and recycling facilities. Thanks to shredding, it is possible to use subsequent sorting equipment. Sorting is usually only possible if the material is loose, for example material that is not bagged, and has a certain chunkiness to it. Furthermore, it is important to keep the fine particles content as low as possible, as they are very difficult or impossible to sort.

Shredder	Miura 1500 DT
Engine	diesel hydraulic
Cutting system	synchronous rough SR 6.7
Screen	
Material	bulky waste, MSW, C&I waste
Throughput	up to 40 t/h
Final output	90% < 300 mm





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.

Shredder	Urraco 95 DK
Engine	diesel hydraulic
Cutting system	synchronous rough SR 10.10 scrap
Screen	
Material	aluminium profiles and sheets
Throughput	up to 35 t/h
Final output	90% < 300 mm







When it comes to rough and tough waste wood recovery, hardly anything beats the processing of railway sleepers or electricity poles. The heavily treated and very hard types of wood do not break as easily as conventional waste wood and therefore require machines with sufficient power reserves. The input material may also contain foreign particles such as heavy iron fittings or massive screws. Although these can be separated from the waste wood fraction using a magnet, they are particularly tough on the cutting unit. To recover these materials efficiently, it is important that the shredding equipment is robust and the cutting unit is premium quality.

APPLICATION NOTE:

Shredder	Urraco 95 DK
Engine	diesel hydraulic
Cutting system	synchronous rough SR 8.10 wood
Screen	
Material	railway sleepers
Material Throughput	railway sleepers up to 140 t/h

