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# Customer Success Story

CUSTOMER  
**UK Rubber**

MATERIAL  
**Tyres**

SHREDDER  
**XR3000C mobil-e**

THROUGHPUT  
**7 t/h < 70 mm**



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„We have always been a business that continually innovates and invests in the cutting-edge processes, machinery, and people needed to meet the UK's waste management challenges. We are rapidly transforming our organisation – and the environmental progress we're able to achieve – with the help of the UNTHA XR3000C mobil-e, which benefits the UK's resource agenda, our own profitability, and job creation in society.“

- Dave Ashurst (CEO of UK Rubber)

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## CUSTOMER

Based in Motherwell, Scotland, UK Rubber (UKR) has more than 40 years of waste management experience. Now a biotechnology solutions provider – and a market leader in the handling of end-of-life tyres – the rapidly-growing business is passionate about the responsible recycling of tricky rubber products. Having established the country's first industrial-scale tyre recycling plant, the result is not only landfill diversion, but the reuse and recovery of as much valuable material as possible.

## CHALLENGE

Tyres have long been considered an economically unshreddable product, due to their tough nature and the high level of wear and tear that traditional high-speed tyre shredders are usually subjected to. But, with an estimated 50,000 tonnes of tyre waste produced in the UK every year UK Rubber continued to seek an effective method of processing this large volume of bulky material. The search for a robust and industry-proven tyre shredding and separation solution therefore began. Further requirements where

a high throughput rate, homogeneous output material (fraction size < 70 mm) suitable for further utilization and energy efficiency.

## SHREDDING SOLUTION

The UNTHA XR3000C mobil-e waste shredder was designed for very difficult materials. The machine's high-torque, slow-speed operation means even difficult materials such as tyres can be handled with minimal wear, maximum uptime, impressive throughputs, particle precision and operator safety. One of the most outstanding features of the XR is its energy efficient engine – the UNTHA Eco Power Drive – which leads to a cleaner, greener shredding process when compared to competitors' diesel hydraulic equivalents. This was one of the most important criteria for UKR as it strives to be more sustainable in all its activities and make a positive contribution to resource conservation. The XR3000C mobil-e is a single-stage shredder that also has a conveyor belt with a metal separator. After the shredding process, clean, pure metal can be extracted

for high-grade scrap (recycling), and the excess fibres can also be sold as a product additive for third parties. The homogeneous rubber crumb can be used as Tyre Derived Fuel (TDF) for energy-intensive industries such as concrete plants, but also for landscaping, riding surfaces and playgrounds.

## PURCHASING DECISION

Working closely with the Scottish Environment Protection Agency (SEPA) – and with funding secured from Reward Finance Group – UKR explored several different machines. But ongoing research and operational experience proved that the UNTHA XR3000C mobil-e was the far superior machine in terms of multiple factors including output quality, minimal noise pollution, and its environmental performance. UNTHA's aftercare, engineering support, and ease of maintenance were also ranked as stand out.

