

UNTHA AIDS TRANSFORMATION OF TYRE SPECIALIST UK Rubber

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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

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» MATERIAL
Tyres

» SHREDDER
XR3000C

» OUTPUT
Tyre Derived Fuel
(TDF)





CUSTOMER

Based in Motherwell, Scotland, UK Rubber (UKR) has more than 40 years' 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 these notoriously 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.

Tyres have long been considered an economically unshreddable product, due to their heavy-duty 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 — and counting — UKR 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.

SHREDDING SOLUTION

The UNTHA XR3000C waste shredder has achieved global acclaim for its ability to tackle even the trickiest, bulkiest applications, with ease. The machine's high-torque, slow-speed operation means even difficult waste such as tyres can be handled with minimal wear, maximum uptime, impressive throughputs, particle precision and operator safety — with no debanding required.

The XR is also renowned for its electric drive, which results in a cleaner, greener shred when compared to competitors' diesel hydraulic equivalents — crucial given the very sustainability credentials operators are so keen to boost.

The single-step shredding line means clean steel can be extracted for high-value scrap (recycling), and fibre can also be sold as a third-party product additive. The homogenous rubber crumb can be used as a Tyre Derived Fuel (TDF) with shredded tyres also being ideal for landscaping, equestrian flooring, and play areas.

With UNTHA shredding technology in place on the Motherwell site, UKR now has ample capacity so is well-placed to grow its foothold in Scotland, with further expansion in England also on the horizon.

Working closely with the Scottish Environment Protection Agency (SEPA) — and with funding secured from Reward Finance Group — UKR explored a number of different machines, even temporarily hiring a competitor, due to immediate availability. But ongoing research and operational experience proved UNTHA's 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 was also ranked as stand out.

REQUIREMENTS

- » Landfill diversion
- » Reuse and recovery of valuable material
- » High output quality
- » Minimal noise pollution
- » Environmental performance
- » Aftercare and engineering support
- » Ease of maintenance

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We're rapidly transforming our organisation — and the environmental progress we're able to achieve — with the help of UNTHA, which benefits the UK's resource agenda, our own profitability, and job creation in society

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— Dave Ashurst
CEO, UKR