



Product News

UNTHA: New Cutter System for XR Waste Shredder offer low Wear and high Efficiency

Edited by on 18. Dec. 2018

The new X-Cutter (XC) system for the UNTHA XR waste shredder, designed to achieve the next generation of performance for single-step SRF shredding or provide a direct replacement for existing high-speed shredders, can transform varied input wastes ranging from waste wood through to pulper ropes.



The X-Cutter design is able to deal with large unshreddable items without the excessive downtime that operators typically face with the major repairs needed on high-speed technology.

(Picture: UNTHA)

According to UNTHA, the technology can produce a homogenous 30 mm SRF (Solid Recovered Fuel) for cement production or refined RDF (Refused Derived Fuel) for WtE (Waste-to-Energy) systems that require a homogeneous feed material. Capable of achieving throughputs of up to 40 tonnes per hour – whether on the static or mobile XR-XC – this latest cutter evolution can run with a slow rotor speed of either 65 rpm for complex waste streams, or 85rpm for cleaner input materials. With equivalent machinery often operating at far higher speeds of up to 250-350 rpm, UNTHA is therefore striving for the lowest wear, most robust safety standards, and greatest energy-efficiency on the market. The

design is also able to deal with large unshreddable items without the excessive downtime that operators typically face with the major repairs needed on high-speed technology. Its launch followed 12 months of behind-the-scenes research and development, and machines have now been sold to waste handlers and alternative fuel producers in the UK, Ireland, Germany and Norway. "This XR-XC is fast-becoming a popular replacement for the industry's existing high-speed waste shredders," comments Peter Streinik, head of UNTHA's global waste shredding division. "It is challenging the norm and making operators think differently about how to process waste into an energy source." "For example, the slower speed means reduced noise levels which heightens operator wellbeing, which is crucial for organisations' duty of care. It also means cutters have a longer lifespan which lowers the whole life running cost of the machine, without jeopardising performance. And the flexibility to handle extremely varied and complex input materials addresses the increasing challenge that clients are facing – they need future-proofed technology that can evolve alongside market conditions." Demand for the new XR-XC spiked following a European roadshow of the shredder, which allowed operators to trial the machine using their own materials. Three trials in the UK, for instance, saw the technology transform five different input waste streams into fuels with varying specifications. During one test, pre-treated residual waste was transformed into an 80 mm fuel at a rate of 30 tph; another saw black bag MSW converted into a <40mm fuel at 22 tph and a third achieved 12 tph when processing light cage material for SRF. Metal recovery rates also surpassed all clients' expectations, with exceptionally clean scrap extracted from the magnet belt, every time.

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