UNTHA
shredding technology

The reliable brand!

textek
FROM BULKY WASTE TO RENEWABLE PRODUCTS

UNTHA XRS TACKLE ONE MILLION MATTRESSES PER YEAR

Textek

“No other mattress shredder will give you this material liberation on the belt. With UNTHA, the numbers really stack up in terms of throughputs, output quality, and revenue potential. It’s easy to operate too, not to mention clean and green – thanks to the world renowned UNTHA EcoDrive.”

» MATERIAL
Mattresses

» SHREDDER
XR3000c

» OUTPUT
Steel recycling









CUSTOMER

UNTHA is playing a leading role in helping Textek, a Shropshire-based recycling company, achieve its ambitious target to recycle one million end-of-life mattresses per annum. This is thanks to the amazing capabilities of two UNTHA XR3000C shredders, which lie at the heart of Textek's bespoke mattress and bulky waste shredding line.

APPLICATION

The XR investment has positioned Textek as the UK's most advanced bulky waste processing plants, able to dismantle a mattress in 30 seconds, compared to the seven minutes required for manual breakdown.

The two XR3000C machines are at the start of the system, which separate the mattress down to its constituent parts – ferrous metal and flock for an alternative SRF fuel. With almost 3m wide loading apertures, the XRs shred the mattresses with ease, down to a <50mm particle size to liberate the steel from the flock, so it can be fed over a sophisticated magnetic separation system for further ferrous extraction.

SHREDDING SOLUTION

Textek can now process 300 mattresses per hour – equating to 1.1 million each year – in one single pass. The flock is separated from contaminated material to produce a premium SRF with a high calorific value of approximately 24MJ, and three grades of clean ferrous materials are segregated for resale, smelting and remanufacturing.

Textek's closed-loop recycling system now achieves 100% landfill diversion, efficiently handling complex materials, while delivering notable financial and operational benefits thanks to the world-renowned UNTHA EcoDrive.

REQUIREMENTS

- High throughput capabilities
- Efficient bulky waste material handling
- Low maintenance operations
- Sustainable and energy-efficient power
- Support closed-loop mattress recycling
- Seamless integration into a turnkey waste management system

> An estimated seven million mattresses are disposed of annually, costing over £20m. Combined with illegal dumping and the environmental and commercial costs of replacements, the impact of this tricky waste stream is therefore quickly spiralling.

– Martin Price
Managing director, Textek