

The UK's most
advanced Bulk Waste
Processing Plant.



textek[®]
FROM BULKY WASTE TO RENEWABLE PRODUCTS



A typical mattress is 23 cubic feet (0.65 cubic metres) and on average 6ft in length.



8 million mattresses destined for landfill, is the equivalent of filling Wembley Stadium 5 times over.

8 million mattresses laid end to end, would reach Australia from the UK!

EVERY year more than 8 million mattresses are disposed of in the UK – that's 167,000 tonnes currently destined for landfill.

the problem

Historically, disposing of mattresses, carpets and other bulky waste in a proper manner has been a nightmare task for UK's retailers and Councils. Mattresses are bulky and heavy, making it a very labour intensive job to dismantle and separate the many complex components for recycling.

Approximately 8 million mattresses, are disposed of every year, with the vast majority destined for landfill or placed in storage – creating huge 'mattress mountains'.

The UK is finally waking up to the problem, estimating more than 480 million mattresses will be heading for landfill, over the next 60 years, unless we can find a workable solution.




 + + = bulky waste



the challenge

Retailers and Local Authorities face two big challenges when recycling mattresses and bulky waste, the first is the separation aspect, the second is finding feasible end markets for the many complex materials to be recycled.

Separation for Recycling

Traditionally, manual separation has been the only effective way to strip a mattress, but this comes with many risks, is time-consuming and expensive.

Pocket-spring-based mattresses in particular offer specific challenges as they contain between 1,000 and 10,000 single springs, each wrapped inside a textile-based polypropylene pocket.

Wearing a mask and 'cut-proof' clothing, while using a blade to manually separate a dusty, 33kg mattress, is a tough, demanding job. Recruiting and retaining people to carry out such a task is very difficult, and although an experienced operative can process more than 65 mattresses a day, the sad reality is the mountain of mattresses will continue to grow at an alarming rate.

Textek spent 18 months investigating the use of innovative technology to make the process easier. The result is a bespoke recycling line.



Bulky waste is notoriously difficult to recycle. Separating the multiple elements is time consuming, requiring highly physical and potentially dangerous working practices.



Bulky waste typically contains Metal, Wood, Foam, Shoddy, Poly and Mixed Textiles.



the solution

Textek has recently invested in a multi-million pound, bespoke Processing Line, which is capable of stripping even the toughest pocket-sprung mattress in less than 30 seconds.

This advanced technology has massively reduced the risks our work-force previously faced on a daily basis, and is a huge step forward in bringing down the number of mattresses destined for landfill.

The steel of the mattress or bulky waste is separated for recycling, while the remaining elements are blended to create a high calorific value Solid Recovered Fuel (Textek SRF), which is then distributed to create greener energy.

Based in the centre of the UK, Textek is ideally located to source, and store huge volumes of bulky waste. With more than 100,000 sq ft of warehousing, our aim is to take a huge burden off landfill sites, while offering a sustainable, viable solution for Local Authorities and Retailers.

One Textek processing line is capable of stripping over 10,000 mattress a week, diverting vast volumes of bulky waste from landfill, instead converting it into Solid Recovered Fuel.

Revolutionising Mattress Recycling.



The plant

Steel end product

the process

Many companies have tried to develop an automated solution for recycling mattresses and bulky waste, but up to now... none have yet succeeded.

Textek have invested 18 months into the research and development of the first Bespoke Mattress Shredding Line, that will divert a staggering one million mattresses a year from landfill.

Its design enables the successful separation of the flock from the steel, ensuring 100% of the mattress can be recycled.

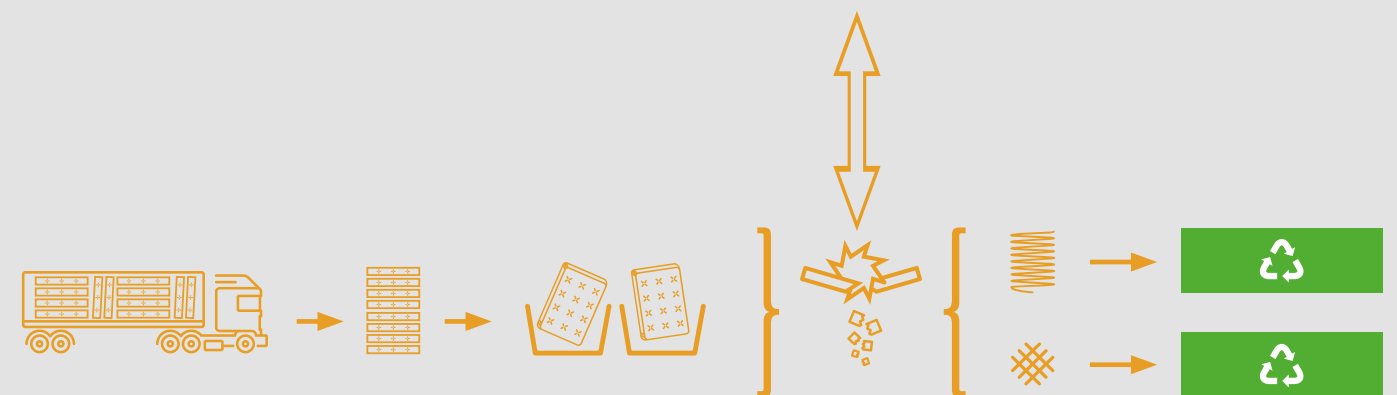
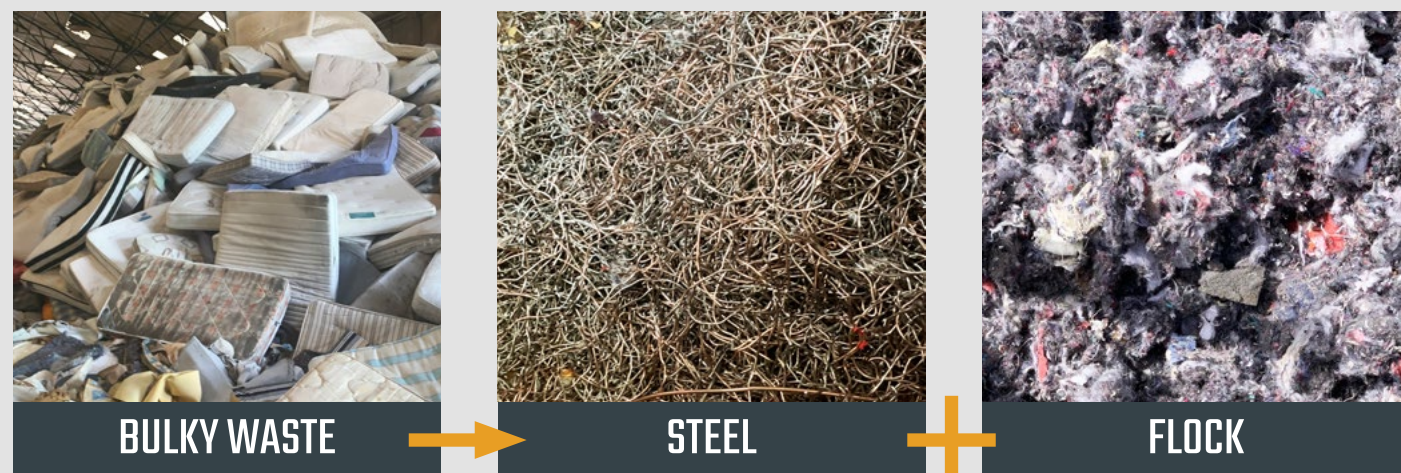


Textek believe that this line provides a stable future for mattress recycling and reduces the hard, often dangerous, manual work that is required when stripping a mattress by hand. On average a skilled person can strip a mattress in around 7 minutes – however the residual products require further processing to enable their reuse.

The Textek Shredding Line is able to dismantle a mattress in under 30 seconds.

We plan to install more Textek plants around the country to help with the on going challenges of mattress recycling.

One Textek shredding line is capable of diverting 1 million mattresses a year from landfill



the benefits

Mattresses may consist of a quilted or similarly fastened case, usually of heavy cloth, that contains hair, straw, cotton, foam rubber, etc., or a framework of metal springs. Stiff fire retardant laws make manufacturers use materials that are a lot safer to use, including:

Metal

Used within the UK and is melted down and turned into many different items from kettles to planes.

Foam

Used within the UK and is melted down and turned into many different items from kettles to planes.

Mixed Textile

This is used as a replacement to traditional fossil fuels as a source to power your home.



about us

Textek Limited is a collaboration between AAT Recycling Ltd. and JPE Holdings Ltd, bringing together more than 30 years experience of recycling technology and knowledge.

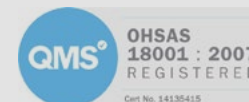
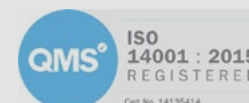
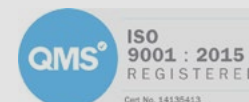
Textek are based in Whitchurch Shropshire. We are a Recycling company whose aim is to divert as many mattresses/sofas and Carpets from landfill as possible. We at Textek are working hard to convince as many companies and councils to recycle their unwanted waste rather than send it to Landfill. We already work with local authorities across the Midlands and many retail outlets to improve the recycling rates of mattresses across the U.K.

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Its design enables the successful separation of the flock from the steel, ensuring 100% of the mattress can be recycled.

The facility is fully permitted with the Environment Agency and operated to strict, environmental and safety standards.

We have the following accreditations:



textek
FROM BULKY WASTE TO RENEWABLE PRODUCTS

From this...

BULKY WASTE

FLOCK + STEEL

..to this
in 30 seconds!

Revolutionising Mattress Recycling

textek[®]

FROM BULKY WASTE TO RENEWABLE PRODUCTS

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