

Company Overview

The Problem

For many years, the tyre recycling industry has been searching for innovative and affordable technology to enhance existing tyre recycling plants. These have proved to be extremely costly, consisting of multi-stage shredding and granulating systems that are susceptible to high wear factors due to the tyre wire content left in the rubber chip prior to final processing. High power consumption and running costs have also been a limiting factor in existing tyre rubber recycling technology, where pre-shredding, secondary shredding, and granulation are essential in order to remove all of the tyre wire.

The Answer

Tyre Shredders UK Ltd, which is a part of Systems 4 Recycling (S4R), offers the combined experience of over 35 years in the Plastics, Rubber and Recycling industries. We pride ourselves on being able to provide the results of over 3 years of development in our TS50 system incorporating single-pass technology to convert whole tyres to a virtually wire-free rubber chip

The Product

We manufacture and supply the only single-pass tyre shredder currently available and by this we mean on our TS50 machines you can place a whole passenger tyre in the machine hopper and produce 20mm wire-free rubber chips suitable for horse ménage and clean wire (only 5-12% rubber contamination) in one step.



We manufacture two systems, the TS50 and TP300S/TS100.

Firstly the TS50 system offers an output in the region of 70 tyres per hour (approx. 500 kg/hr of 20mm rubber.) The TS50 system is priced at £159,780.00. Shredder, discharge conveyor, over band magnet and rare earth drum magnet are included in the price for the system.



For higher throughputs and larger tyres such as truck tyres, then our TP300S/TS100 system is the system to look at. For processing of truck tyres the DB30 Tyre Debeader is required at £33,950.00. The TP300S/TS100 system includes TP300S pre-shredder with transfer conveyor to the TS100 shredder, discharge conveyor, over band magnet and rare earth drum magnet. The price for the TP300S/TS100 is £412,945.00.

The price for this total system including debeader is £446,895.00.

TP300S/TS100 system on car tyres will give an output of approximately 1000 - 1300 kg/hr of 20mm wire-free rubber chips.

Debeader & TP300S/TS100 system on truck tyres will give an output of approximately 800-1000 kg/hr of 20mm wire-free rubber chips.





If you visit our web page www.systems4recycling.co.uk you can view further information on our equipment.

Finally, for smaller particle sizes we can offer our GS system granulation lines. These systems comprise two stages of granulation, material transfer systems, textile separation and compaction, full screening and sieving to produce graded product sizes from 2-4mm down to <100 mesh and spark detection systems. The GS lines can be integrated in to our TS shredding systems and for example a turnkey production line offering an output in the region of 3,700 kg/hr of <4mm crumb would cost in the region of £4.5 million, including truck de-beading, pre-shredding, TS100 triple system and the full granulation plant.

At S4R we are constantly striving towards finding new and revolutionary solutions to common problems in the recycling industry. Should your requirements not be outlined above, please do not hesitate to contact us to discuss your needs in greater detail.