coupling the custom designed secondary transport trailer to the ST-500H trailer provided a closed loop tire processing system discharging 2” (50mm) tire chips. When the customer requires a coarse shred, or to reduce bulky wastes, the shredding system can be quickly and easily disengaged from the classifier trailer. The CAT Diesel Engine powers not only the shredder but also the separate classification system.

The throughputs required for the ST-500H System were 9.35 tons (8.5 tonnes) per hour to a 2” (50mm) sizing. When not close coupled to the classifier, the course shred provided by the ST-500H System was to be at a rate of 14.3 tons (13 tonnes) per hour of assorted tires. Both throughputs were surpassed.

Similar mobile units to the ST-500H have been previously manufactured by Shred-Tech. This, however, is the first system where a second trailer has been coupled to provide a predetermined 2” (50mm) tire chip. The significant throughputs achieved by the Mobile ST-500H Tire Shredding System, along with the minimum amount of set-up time (15 minutes) means a scrap tire processor may now be able to economically reduce old tire piles on site to a size suitable for onward processing.

Shred-Tech has invested significant engineering and manufacturing resources into this new system to meet not only road regulations throughout the world but also to achieve the durability necessary to reduce large volumes of tires for long periods of time. The ST-500H Shredder is a rugged industrial machine currently used to process other difficult items such as hazardous waste, municipal waste and scrap metal.
Shred-Tech
A Twenty Year Success Story

Shred-Tech’s team of professional engineers and technologists are experts not only in reduction technology, but in machine design, metallurgy, electronics, pneumatics and hydraulics as well. Shred-Tech’s in-house control of design, fabrication, machining, PLC Controls and assembly assures quality.

“SHRED-TECH Shredders hold up where others don’t! It’s a proven fact”
Norvill Brown, Tire Shredders Inc.

“ST 150E Tire Shredding System Reduces Automobile and Truck tires to a 2” minus chip size @ a rate of 6TPH”

TIRE FACTS
Did you know that
One car tire weighs 22 lbs (10 kg)
One truck tire weighs 80 lbs (36 kg)

and that in one cubic yard you can put
10 car tires or
3 truck tires or
33 shredded car tires (single pass) or
7 shredded truck tires (single pass) or
47 shredded car tires (2” chip)

and did you know that
Tire-derived-fuel (TDF) chips offer users a higher energy value than coal or wood chips, and have little or no adverse effect on air emissions

Source: US EPA Markets for Scrap Tire Report

As well as the United States and Canada, Shred-Tech has systems successfully operating around the world including the United Kingdom, Europe and the Pacific Rim.

The ST-500H Hydraulic tire shredding system c/w conveyors and classifier (above) is producing 2” fuel chips for the European market.

Technical Specifications

<table>
<thead>
<tr>
<th>Shredder</th>
<th>ST-100E</th>
<th>ST-150E</th>
<th>ST-200E</th>
<th>ST-200EL</th>
<th>ST-500H</th>
<th>ST-500HL</th>
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<tbody>
<tr>
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<td>Electric</td>
<td>Electric</td>
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<tr>
<td>Cutting Chamber</td>
<td>60”x32”</td>
<td>60”x40”</td>
<td>75”x43”</td>
<td>96”x43”</td>
<td>75”x43”</td>
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Estimated Throughput - Tons per Hour (TPH)

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<th>2” minus</th>
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<th>Truck</th>
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Note: Dual Shredder Systems are available for 2” minus throughput rates in excess of 10 TPH.