



BARCLAY
TYRE SHREDDERS

VERTECH





LOWEST COST
PER TON
TO BUY



LOWEST COST
PER TON
TO OPERATE



LOWEST COST
PER TON
TO MAINTAIN

A SOLUTION TO AUSTRALIA'S TYRE RECYCLING CHALLENGES

Vertech is the premium equipment range by Waste Initiatives, created for serious operators seeking high-performance waste processing solutions. Backed by international engineering and supported locally with Australian-based service and spare parts, Vertech delivers exceptional durability, efficiency, and reliability.

Barclay Shredders, a leading American manufacturer of tyre recycling systems with over 25 years of expertise, offer enhanced efficiency with *precision engineering* and *tight tolerances*.

Unlike other tyre shredders that tear material, they cleanly cut tyres for superior performance, built for durability and reliability to tackle large-scale tyre recycling challenges.

WHY CHOOSE BARCLAY SHREDDERS?

Unmatched Durability: Many Barclay machines last 10+ years of heavy use worldwide.

Advanced Cutting Technology: Precise cutting reduces wear, with knives processing 10,000 tons (1 million tyres).

Minimal Maintenance: Durable blades made from optional Cru-Wear material (PGK) for top performance.

Exceptional Capacity: Shreds up to 20 tons per hour, handling feedstock up to 72" in diameter, including truck and OTR tyres.

Integrated System: Enhance recycling with Barclay's classifiers and conveyors for seamless operation.

Cost Efficiency: Lowest cost per ton, increasing ROI.

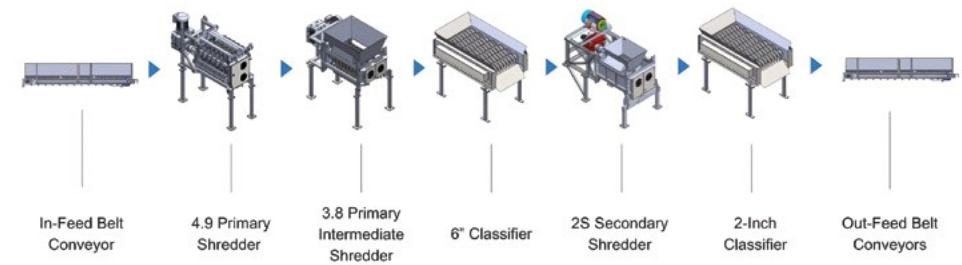
Power Efficiency: Low horsepower and efficient cutting system reduce kWh, lowering operational costs.

TYRE RECYCLING SYSTEMS

TYRE DERIVED FUEL (TDF)

Barclay offers an end-of-life tyre recycling system designed to maximise throughput while maintaining precise control over particle size and quality with chips perfectly sized for producing TDF.

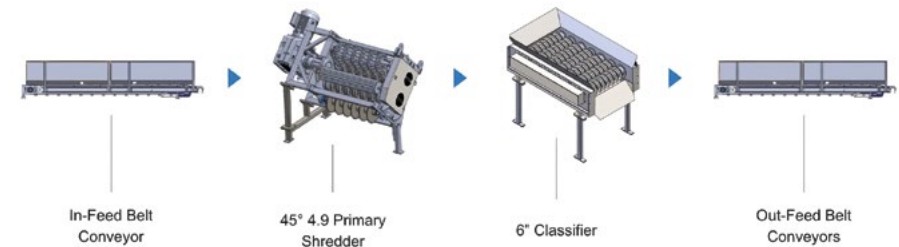
System Components include: In-feed conveyor, 4.9 Primary Through Feed Shredder, 3.8 Primary Intermediate Shredder, 6" Classifier, 2S Secondary Shredder, 2" Classifier and Belt conveyors.



TYRE DERIVED AGGREGATE (TDA)

A high-performance tyre recycling system that turn end-of-life tyres into valuable tyre-derived aggregate 150 mm(TDA), up to 12 TPH.

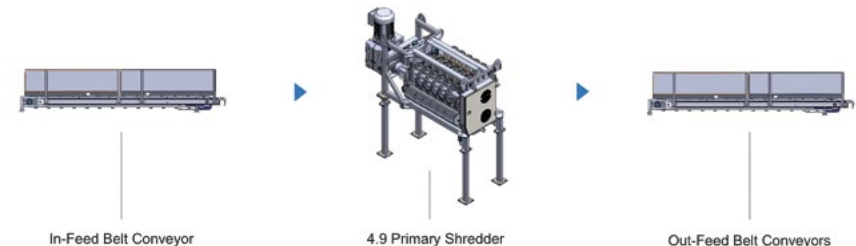
System Components include: In-feed conveyor, 45° or Top Feed 4.9 Primary Shredder, 6" Classifier and belt conveyors. Add-in Primary intermediate shredder to increase throughput up to 20 TPH or shred to a smaller size.



SINGLE-PASS TYRE RECYCLING SYSTEM

The Barclay Single-Pass System shreds tyres in one seamless pass with unmatched durability and efficiency.

System Components include: In-feed conveyor, 4.9 Primary Tyre Shredder and Out-feed conveyor.



BARCLAY 4.9 PRIMARY TYRE SHREDDER

OUTPUT SIZING:
124 MM – 254 MM STRIPS



The **Barclay Primary Tyre Shredder** is considered to be the “**workhorse**” of the tyre recycling industry. Designed to take whole tyres as large as **72” (1829 mm)** in diameter, the Barclay Primary Tyre shredder cleanly shear high volumes of scrap tyres into strips in just seconds.

Available in **both side-feed, 45 degree angle and top-feed** configurations, our Primary Shredders can create strip sizes from the popular **124 mm up to 254 mm** (4.9” to 10”).

SPECIFICATIONS

Power	75 – 100 HP
Cutting Chamber Width	72”
Cutting Spacing	4.9”
Tyre Diameter	up to 72”
Throughput (<i>single Pass</i>)	16 – 20 TPH



FEATURES

Precision Blades: Crafted from premium Cru-Wear tool steel and Modified A8 for efficient, durable tyre cutting, lasting up to 10,000 tons.

Quality Bases: Modular AISI D-2 tool steel bases for easy change, top performance, and longevity.

Motor: 75 hp motor and gearbox with shear pin protection.

Rotating Strippers: Prevent blockages and eliminate wear plate replacements.

Heavy Duty Chains: Adjustable tension minimises shredding downtime.

Drive Train Protection: Protects from shock loading, enhancing durability.

User-Friendly Controls: Fully wired, simple controls, and large emergency stop button.

OPTIONAL EXTRAS

Configurations: Through-feed (side load), 45° angle, or top-load.

Cut spacing: 4.9” (124 mm) to 10” (254 mm).

Optional: In-feed and out-feed conveyors.

ADD-ON

Pre-shredder at 45° and Classifier up to 12 TPH TDF (150 MM) recycling system.

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BARCLAY SECONDARY TYRE SHREDDER

The **Barclay Secondary Tyre Shredder** is a top feeder shredder designed to further reduce the size of tyre material previously processed.

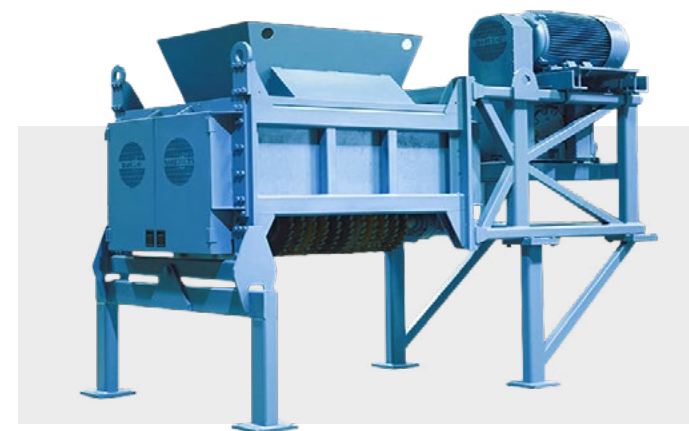
Consisting of three configurable models – **1.4S**, **2.0S**, and **3.6S** – specifically designed to shred pre-processed tyres into **35, 50 and 90 mm chips** (1.4", 2" & 3.6").

This machine is perfect for **TDF production** or granulating and is ideal for running in-line behind a primary shredder.

SPECIFICATIONS*

Power	75 – 200 HP
Cutting Chamber Width	44", 48" & 72"
Cutting Spacing	1.3-1.4", 1.6"-2" & 3.6"
Chip Output	1.4", 2" & 3.6"
Throughput (<i>single Pass</i>)	12 – 20 TPH

** Specs are dependent on model*



OUTPUT SIZING:
30, 50 & 90 MM CHIPS



FEATURES

Precision Blades: Premium Cru-Wear and Modified A8 tool steel for efficient, durable cutting.

Quality Bases: Modular AISI D-2 tool steel bases for easy change, top performance, and longevity.

Rotating Strippers: Prevent blockages and eliminate wear plate replacements.

Heavy Duty Chains: Adjustable tension minimises shredding downtime.

Drive Train Protection: Protects from shock loading, enhancing durability.

User-Friendly Controls: Fully wired, simple controls, and large emergency stop button.

OPTIONAL EXTRAS

Configurations: Through-feed (side load), 45° angle, or top-load.

Cut spacing: 1.3" (33 mm) to 3.6" (90 mm).

Optional: In-feed and out-feed conveyors.

ADD-ON

Pre-shredder and Classifier for up to 15 TPH tyre chip (35/50 MM) recycling system.

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BARCLAY CLASSIFIER

CLASSIFYING:
50 MM – 150 MM CHIPS



The **Barclay Classifier**, adaptable to **50 mm**, **100 mm** and **150 mm** output (2", 4" & 6"), enhances Barclay shredders and conveyors for optimal efficiency by accurately screening tyres for consistent sizing, maximizing usable material.

With a **50 ft² (4.6 m²)** screening area, integrated 5 hp inverter gear-motor, it processes up to 16 tons per hour. Seven heavy-duty shafts and abrasion-resistant discs ensure high uptime and low maintenance.

SPECIFICATIONS

Power	5 HP
Screening Area	50 ft ²
Throughput	16 TPH
Nominal Chip Sizing	6"
Optional Chip Sizing	2" or 4"



FEATURES

Screening area: Large screening area of 50 sq Ft (4.6 m²) handles a wide variety of tyres.

Capability: Capable of screening for 150 mm chip sizing meeting international export standards. Barclay also offers 50 or 100 mm chip sizes.

Quality: High-quality material in heavy-duty shafts and abrasion-resistant discs designed

to withstand the wear and tear of continuous use and minimise regular maintenance.

Sorting: High-level sorting accuracy ensures the shredder is processing tyres of a consistent size and type.

Reversible: Feed is reversible and accepts a chute.

OPTIONAL EXTRAS

Configurations: Adaptable to 2" (50 mm) and 4" (100 mm) chip sizing.

Optional: In-feed and out-feed conveyors.

ADD-ON

Pre-shredder and secondary shredder for a complete tyre recycling system.

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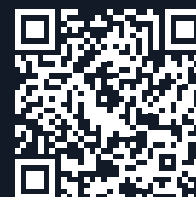
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OUR RANGE