

**BARCLAY**  
TYRE SHREDDERS

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**VERTECH**

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## 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.

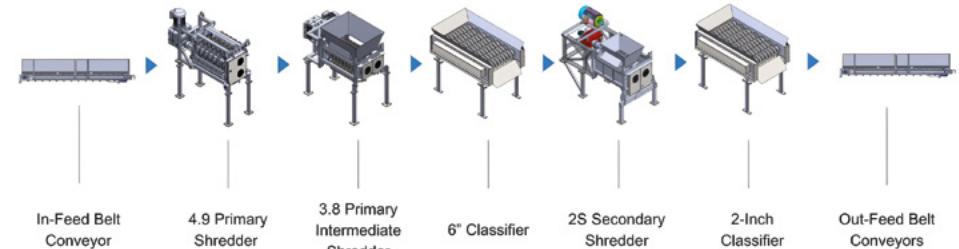
**Power Efficiency:** Low horsepower and efficient cutting system reduce kWh, lowering operational costs.

# 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.

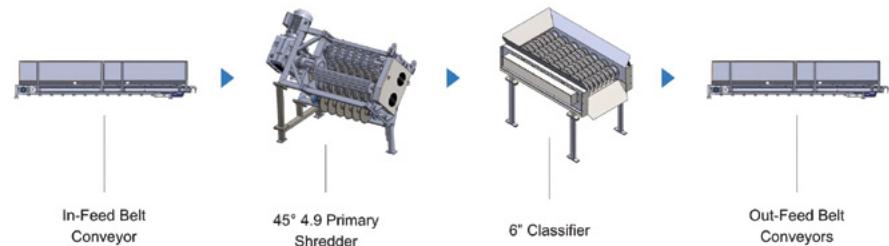
System Components include: 16 Ft In-feed conveyor, 4.9 Primary Through Feed Shredder, 3.8 Primary Intermediate Shredder, 6" Classifier, 2S Secondary Shredder, 2" Classifier and Belt conveyors.



## TYRE DERIVED AGGREGATE (TDA)

A high-performance tyre recycling system that turns end-of-life tyres into valuable tyre-derived aggregate (TDA). 12 – 20 TPH.

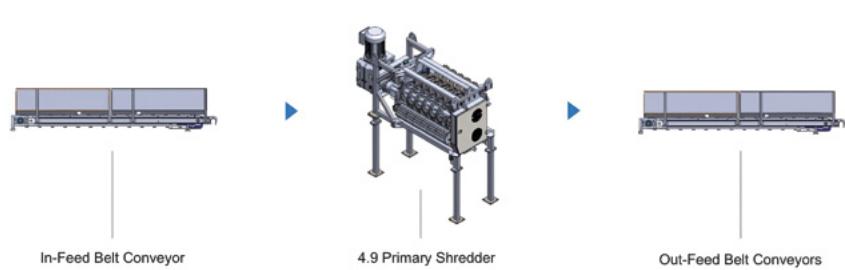
System Components include: 30" In-feed conveyor, 45° or Top Feed 4.9 Primary Shredder, 6" Classifier and belt conveyors. Add-in Primary intermediate shredder to maximise to 20 TPH.



## SINGLE-PASS TYRE RECYCLING SYSTEM

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

System Components include: 16 Ft In-feed conveyor, 4.9 Primary Tyre Shredder and 42 Ft Out-feed conveyor.



# BARCLAY 4.9 PRIMARY TYRE SHREDDER

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 **4.9” (124 mm)** up to **10” (254 mm)**.

## 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

OUTPUT SIZING:  
4.9 “ - 10” (124 MM - 254 MM) STRIPS



## 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 for a 12 TPH TDF (150 MM) recycling system.

# 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 **1.4", 2"** and **3.6" chips (35, 50 and 90 mm respectively)**.

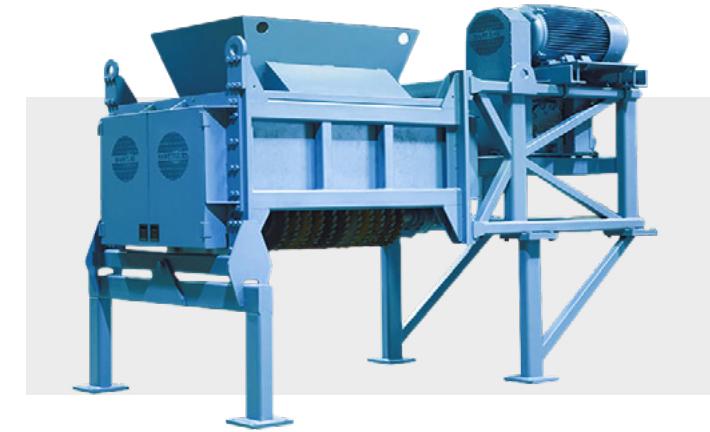
This machine is perfect for **TDF production** or granulating and is ideal for running in-line behind a primary shredder.

## 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 (single Pass)	12 – 20 TPH

\* Specs are dependent on model

OUTPUT SIZING:  
1.4", 2" & 3.6" (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 a 20 TPH tyre chip (35/50 MM) recycling system.

# BARCLAY CLASSIFIER

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

With a **50 ft<sup>2</sup> (4.6 m<sup>2</sup>)** 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 <sup>2</sup>
Throughput	16 TPH
Nominal Chip Sizing	6"
Optional Chip Sizing	2" or 4"

CLASSIFYING:  
2 " - 6" (50 MM - 150 MM) CHIPS



## FEATURES

**Screening area:** Large screening area of 50 sq Ft (4.6 m<sup>2</sup>) handles a wide variety of tyres.

**Capability:** Capable of screening for 6" (150 mm) chip sizing meeting international export standards. Barclay also offers 4-inch or 2-inch 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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