



BIG TYRE

The Tyre, Wheel & Rubber Track *Specialists*

*Serving the Australian
Mining Industry
since 1959*



Mining Services Guide



WHEELS



TYRES



TRACKS

Experts in
design, manufacture & rebuilding
of heavy duty
rubber, polyurethane & steel products



BIG TYRE

The Tyre, Wheel & Rubber Track *Specialists*

Australian owned and operated **since 1954**

About Big Tyre

Big Tyre is a world leader in its field and has built a reputation for supplying reliable, high-quality products and solutions.

In the past 20 years we have:

- ♦ Manufactured over **3,000** solid rubber wheels
- ♦ Repaired or retreaded over **15,000** tyres
- ♦ Reconditioned over **1,200** agricultural tracks
- ♦ Rebuilt over **7,000** undercarriage wheels



Our 165" autoclave can handle the biggest tyres on the market today.

Other products and services supplied by Big Tyre include:

- ♦ Custom built polyurethane and rubber products
- ♦ Custom wheel design and fabrication to suit specific project requirements
- ♦ Stub-axle assemblies
- ♦ New rubber tracks
- ♦ New tyres
- ♦ Rubber grooving
- ♦ Tyre buffing



Our tyre and wheel testing machine allows us to test products under a range of load and speed conditions.



Locally owned and operated
Supplying Australia wide and internationally

Solid Wheels

- ♦ Custom wheel design
- ♦ Wheel manufacture & rebuilding
- ♦ Stub-axle assemblies
- ♦ Custom rubber & polyurethane products



Australia's foremost manufacturer of solid rubber wheels.

Over **25 years experience** in underground mining applications.

- ◆ Preferred supplier to Caterpillar Global Mining and other OEMs.
- ◆ Supplying both domestic and international markets.
- ◆ No restrictions on minimum or maximum order quantity.

About our wheels

- ◆ New or reconditioned.
- ◆ Off-the-shelf or custom designed to suit your application.
- ◆ Excellent durability even in severe conditions.
- ◆ Service exchange available.
- ◆ Designed & manufactured in Australia.
- ◆ Premium quality rubber compounds.



2 Year Warranty
on solid rubber wheels

LHDs / Roof Support Carriers



Chock Trailers



Pipe Trailers



Radial Stackers



**We make wheels to suit a wide
range of machinery**

Trommels



Mill Relining Equipment



Substation Trailers



Workshop Skates



Custom Wheel Design

We can design and build wheels to suit specific requirements, such as:

- ♦ High load capacity
- ♦ Low ground pressure
- ♦ Stainless spigots for corrosive environments
- ♦ Chain guards to protect the brake line from tyre protection chain slippage



Tyre Protection Chains

Premium quality European chains and chain repair links are available, supplied as a spare part, or fitted and ready to use.



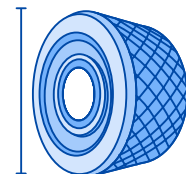
Machining Capabilities

Our factory is equipped with a diverse range of machinery enabling our experienced staff to fabricate and rebuild a very broad range of wheel sizes.



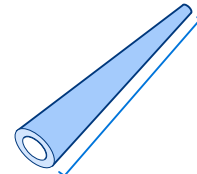
Load Capacity

Up to 100 tonnes or more per wheel



Diameter

100mm to 4m+



Width

10mm to 4m+

Stub Axle Assemblies

Making your own equipment?

Big Tyre supplies stub-axle assemblies with customised backplates to match your existing or new equipment. With load capacities of up to 20 tonnes or more per wheel, it is an ideal solution for heavy load applications.



FRAS Certified Polyurethane

Fire resistant, anti-static polyurethane can be used to rebuild or manufacture new wheels for high load underground mining applications such as monorail mules.



Custom Branding

Using metal name plates, wheels can be supplied with Big Tyre's premium branding or with your own custom branding.

Moulded wheels can have the brand moulded into the side of the rubber.



Custom Rubber & Polyurethane Products

We can manufacture & rebuild custom rubber and polyurethane products, such as mounting plates, skids, stabilisers and blocks.

Size and shape are normally no constraint and product hardness can be customised to meet particular requirements.



Tyres

- ♦ **Retreading & relugging**
- ♦ **Tyre repairs**
- ♦ **Tyre buffing**
- ♦ **Tyre protection chains**
- ♦ **Flat-proofing**
- ♦ **New tyres & tubes**



Tyre Retreading

Our experienced staff, high quality rubber compounds and proven bonding techniques enable us to retread a broad range of OTR tyres - including the largest tyres available on the market today.



Reduce carbon emissions

Retreading uses fewer resources compared to manufacturing a new tyre, making it an effective way to reduce your environmental impact.



Secure your tyre supply

Retreading is an effective way to supplement your tyre supply, increasing your resilience to import restrictions or short supply from tyre manufacturers.



Customise tyres for your application

By varying the rubber type, tread depth and tread pattern, Big Tyre can customise tyres to suit your application.



Reduce costs

Depending on tyre size, retreading can be a cost-effective alternative to buying new tyres.



Guaranteed quality

Our retreads come with a warranty covering tread lift and excessive wear rate. Many customers claim that our rebuilt tyres last even longer than new tyres.



Tyre Buffing

Big Tyre can buff excess tread off tyres to make them better suited for certain applications.



Increase TKPH

Buffing can be a cost effective way of increasing the TKPH of a tyre by reducing heat generation and retention caused by overly deep tread, particularly in sand mining applications or sites with long run cycles.

By buffing half the tread off prior to fitting, one of our clients reduced failures from case separation, **consistently extending the life of their loader tyres by over 2 years.**



Buffing tyres to suit chains

Big Tyre can buff tyres to make them suitable for fitting with tyre protection chains.

Buffing can provide the required clearance under the wheel guard for chain fitment. Secondly, some tyres have particularly square shoulders. Buffing the shoulders of the tyre provides a suitable profile for secure chain fitment.

In addition to buffing the tyres, we can supply high quality European chains, fitted or unfitted.

Tyre Repairs

Big Tyre can repair substantial injuries in OTR tyres of any size.

Following a thorough inspection of the tyre, we patch the injury and rebuild the area with fresh rubber. Once cured in our industrial autoclaves, this provides a very strong repair - much stronger than off-the-shelf stick-in patches. This process typically takes about three days.

We provide a 12 month pro-rata warranty on all our tyre repairs.



“ Our process is not only highly successful and cost effective, but comes highly recommended by some big name players. ”

Tyre Fendering

We can protect the sidewall of tyres by reinforcing them with a 6-12mm layer of rubber called a fender. This is an effective way of reducing sidewall punctures and scuffing and is suitable for both new and used tyres.

If caught early enough, tyres with cracked sidewalls can be repaired very economically using a fender - often without using any patches at all.



Tyre Flat-proofing

Tyre Sealant

Tyre sealant is a cost-effective, fluid based flat-proofing method that does not significantly change the ride or weight of the tyre. It is suitable for sealing holes up to 7mm and is effective at stopping slow leaks, including leaks around the bead.

Our sales team can advise how much sealant is required based on your tyre size.



Foam Filling

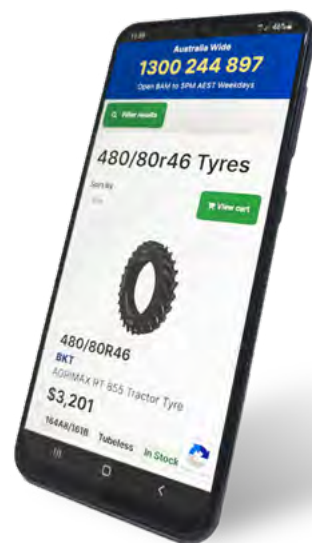
Foam filling completely eliminates flat tyres while providing a smoother ride than solid tyres. Polyurethane is pumped into the tyre via the valve stem, completely replacing the air, and cures to create a resilient, elastomer core.

TyrFil
A CARLISLE BRAND



New Tyres & Tubes

Whether you are looking to meet a budget or buy the best quality, we provide solutions to meet a broad range of requirements.



Broad Range At Your Fingertips

Easily search dozens of brands with detailed tyre information online at bigtyre.com.au/store

4000+
Tyres

40+
Brands



Australia Wide Shipping

We ship tyres directly from your closest warehouse to minimise shipping costs.



Competitive Pricing

We provide low-cost and premium quality tyres at prices that won't break the bank.



Tubes & Rustbands

We offer a range of tyre products including tubes, rustbands & flatproofing.



OTR Tyres



Industrial Tyres



Agricultural Tyres



Turf & ATV Tyres

**The easiest way to
get the right tyres.**

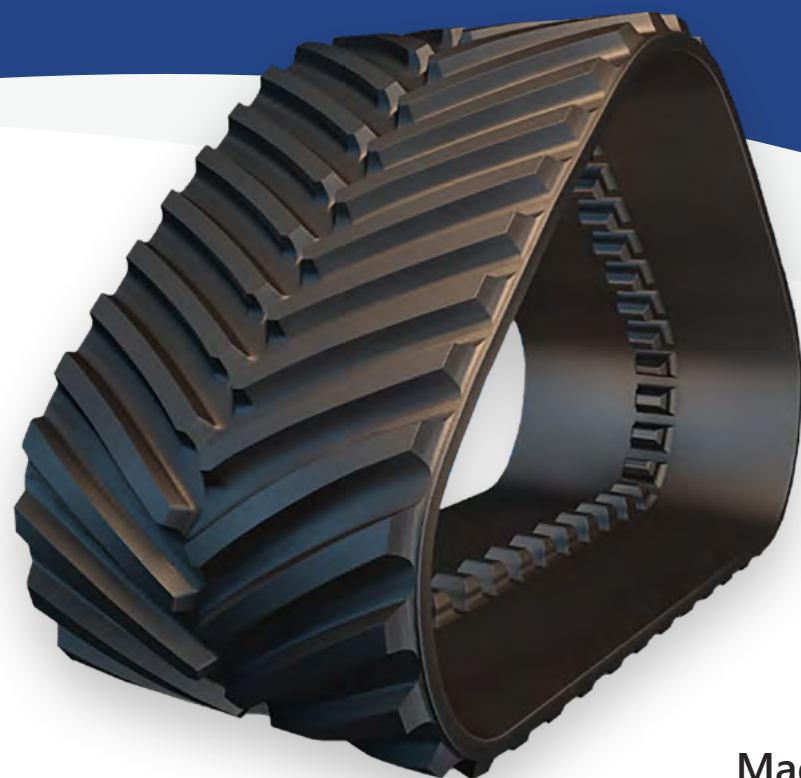
bigtyre.com.au/store

Land reclamation Tracks & Wheels

- ◆ New rubber tracks
- ◆ Track reconditioning & repair
- ◆ Undercarriage wheel rebuilding

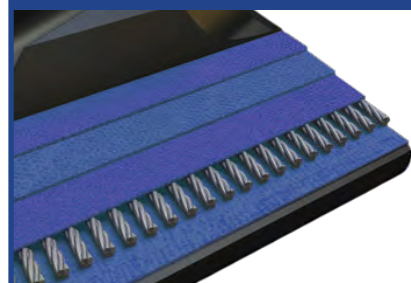


Trackman by



Made in USA 

WIRE-PLY CONSTRUCTION



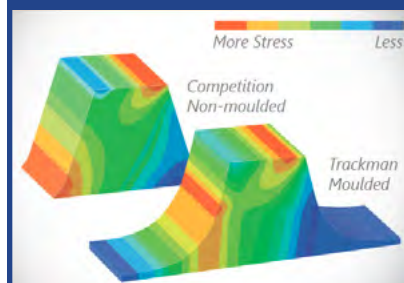
CONSTRUCTED FOR LONGER LIFE.

Wire-ply construction with 50% more wires per inch than competing tracks. That's 12 wires per inch compared to only eight.

Patented galvanised steel cables prevent corrosion and premature weakness.

Helically wound steel cables prevent stretching while retaining track flexibility.

FULLY-MOULDED DESIGN



FULLY-MOULDED IS STRONGER.

Fully-moulded construction equals tougher, longer-lasting tracks.

Non-moulded tracks have weak points that can lead to premature failure.

In addition to longer life, you get a more consistent rubber thickness leading to greater stability and a smoother ride.

DRIVE LUG SECTION



THE WORLD'S STRONGEST DRIVE LUGS.

ARMORLUG® ULTRA is the first patented drive lug with three fabric layers embedded in the lugs.

It easily handles today's biggest, most powerful tractors and is designed to take on more.

It lasts as much as 30% longer than any other positive-drive track.

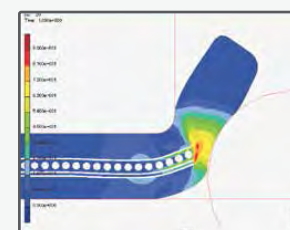
Firestone



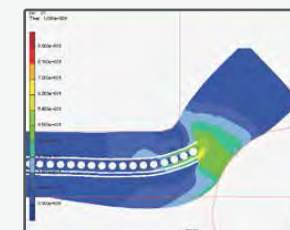
Made in Japan 

PRO-EDGE

Exposed track edges are more vulnerable in the field. Firestone's optimum sidewall protection technology strengthens their rubber tracks to reduce damage by lowering stress and bending while increasing track life and minimising soil compaction.



When force is applied to tracks without Pro-Edge, more bending and stress occur, increasing the likelihood of damage to the track.



When the same force is applied to tracks with Pro-Edge, stress and bending are minimised, reducing the risk of damage.

SPECIALISED TREAD DESIGN

The tread bars, which are contoured to minimise soil-disturbance while cornering, are built using a highly wear-resistant rubber and are moulded in with the belt for maximum strength and a seamless finish.

TOUGH & FLEXIBLE STEEL CABLE

A precise balance of tensile strength, flexibility, and durability helps these rust resistant cables meet the demands of high-horsepower farm equipment.

Repairing & Reconditioning Tracks

Reconditioning your tracks is a reliable, cost-effective method to extend their usable life. You can expect to get similar life to the original tread at a much lower cost than buying new.

We only recondition quality tracks* and will not recondition your tracks unless we believe you will get a good return on your investment. All our track rebuilds come with a 3 year pro-rata warranty.

Reconditioning costs compared to buying new tracks

Service	Approx. % of New**
Full rebuild	55 to 60%
Retread only	45 to 50%
Guide block replacement only	25 to 30%
Repair only	5 to 10%

Track reconditioning services available:

Positive drive machines

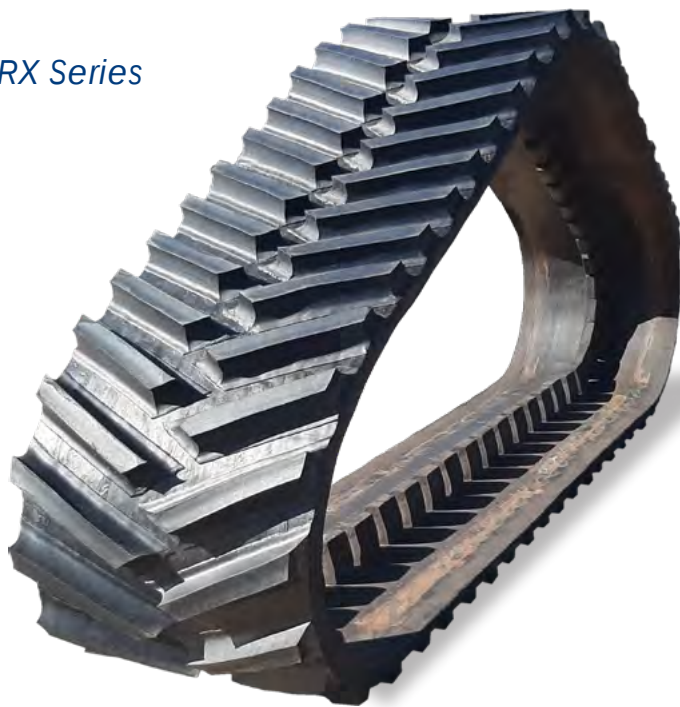
Case / New Holland / Versatile / JD RX Series

- ◆ Full tread replacement
- ◆ Repairs

Friction drive machines

John Deere / CAT / AGCO / Claas

- ◆ Full tread replacement
- ◆ Guide block replacement
- ◆ Repairs



* Exposed ply layers or a couple of broken cables are normally not a problem for rebuilding high quality belts. We do not recommend rebuilding Chinese-made tracks. Call us to learn more about track quality.

** % of new is an approximation based on buying a new track of equivalent quality.

Rebuilt Undercarriage Wheels

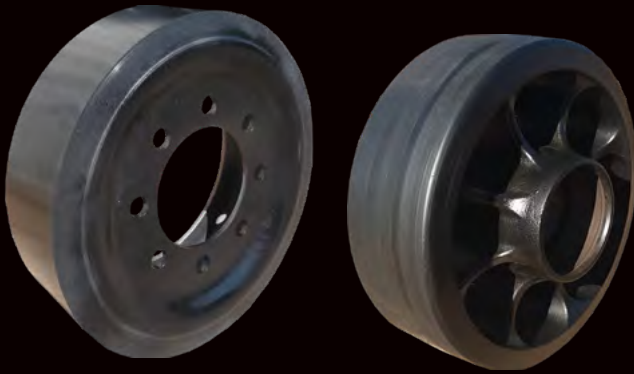
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Premium Quality materials + World Class bonding = *Quality* you can rely on

With savings of up to 80% compared to the cost of buying new, reconditioning is the smarter way to keep you running.



- ◆ 2 year pro-rata warranty¹
- ◆ Service exchange available²
- ◆ Polyurethane mid-rollers



¹ Standard-duty John Deere 8RT rollers come with a 12 month warranty. A heavy-duty alternative with a 2 year warranty is available for this machine.

² Subject to availability.



Sustainability & Efficiency

Big Tyre is always looking for opportunities to improve our efficiency and sustainability.

Big Tyre is proud to be doing our part to help protect the world around us. We can even reduce your carbon footprint too!

Our factory has 230kW of solar panels, covering 65% of our power requirements and feeding plenty more clean energy back into the grid. Throughout the office and factory, LEDs and skylights provide better lighting and lower energy use.

Big Tyre has been an EcoBiz star partner since 2017 as we continually strive to reduce not only energy, but also water usage and waste.

Did you know?

Retreading a tyre uses significantly less energy than what is required to make a new tyre.

Therefore, by retreading your tyres or rebuilding your wheels at Big Tyre, you not only reduce waste, but you reduce your own carbon footprint as well.





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Best Down Under