

# bandag

#### **WHY BANDAG?**

#### **WE PIONEERED IT**

In 1957, Bandag changed the trucking industry by providing fleets across the continent with a smarter tire solution.



#### **WE LEAD IT**

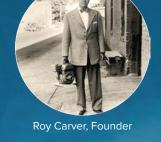
Bandag is the world's leading supplier of retread rubber. In fact, one in every five truck tires on American roads are Bandag retreads. \*

## **OVER 65 YEARS OF INNOVATION**

A trusted leader in the tire retread industry

## **WE'RE MOVING IT FORWARD**

Building greener retreads. More innovative technology. Maximizing fuel efficiency. We'll never stop improving what's already a better tire solution.











## **WE'VE GOT YOU COVERED**

BANDAG OFFERS THE BEST COVERAGE IN NORTH AMERICA.\*





With more points of service than any other tire manufacturer,\* Bandag has you covered with the most comprehensive roadside service network in the industry.



200 **Manufacturing Plants** 

Not only do we have more than twice as many plants as our nearest competitor, but each and every Bandag facility must pass a 150-point annual inspection - the most rigorous in the industry.



#### **BANDAG. THERE'S NO BIGGER** NAME IN RETREADS.

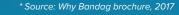
With almost double the market share of our nearest competitors, there's no bigger name in retreads. That's why more fleets come to us for leading products, expert advice, and unrivaled service.



### **WE ALWAYS KEEP OUR WORD**

Bandag Retread Tires are covered by a limited warranty that leaves no room for doubt. Read the fine print for yourself. Conditions apply.

See Bandag.com/en-us/bandag-difference/warranty-info for details.



bandag

THE BANDAG DIFFERENCE

While other retreading systems source their equipment from

multiple suppliers, Bandag uses the only vertically integrated

equipment manufacturing to tread application, each step in the

• 90% of Bandag equipment is manufactured in-house by the

most experienced retread equipment manufacturing group

The highest standards: Every Bandag dealer must pass an

trained field-based technicians work full-time to ensure the highest quality standards are maintained within the

• This advanced technology means we find imperfections that

• Dealer equipment is inspected and maintained by Bandag's

experienced group of technicians in the industry\* - because

your retread is only as good as the equipment it's built on.

own Technical Services Group, the largest and most

• More than 98% of Bandag dealers use shearographic

annual audit of over 150 requirements. More than 50 highly

retread system in the industry. From rubber pressing to

All tread rubber is manufactured at ISO 9001:2008

process is designed to work together flawlessly.

certified plants.

in the world.\*

franchised dealer network.

analysis to identify casing anomalies.

even new tire manufacturers might miss.

#### **ASSET MANAGEMENT**



## **SMARTER TIRE MANAGEMENT**

BASys Manufacturing is an inclusive suite of tools that lets you focus on your business, while allowing you to track casings through each production checkpoint and then to its next destination, be it a point of sale, a warehouse or back to the customer.



## WHY BASYS?

- Real-Time Inventory Tracking Across Dealers
- Fleet Specs Shared Seamlessly Across the Dealer Network
- Brand Casing Retreadability
- Retread/Repair History by Vehicle Number
- Retread/Repair History by Tire Tag Number
- Casing Rejection Analysis

#### **BASys Manufacturing is just good business.**

Bandag's proprietary BASys Manufacturing uses customer profiles so you can ensure customer specifications for retreading and repairs are being met every time you touch a fleet's tires.

BASys Manufacturing provides real-time retread plant performance by casing size, brand and series to help fleets make informed decisions on their future retread and new tire purchases - contributing to your value as a dealer.





#### **ASSET MANAGEMENT**



## **AUTOMATED TIRE MANAGEMENT**

Bridgestone's proprietary digital solution for tire assessment and asset management. Designed to deliver meaningful & actionable insights, and help increase customer tire management efficiency and reduce total cost of ownership.











#### YARD CHECK / IN SERVICE TIRE AUDITS

Conduct quick surveys of your tires on vehicles and record all maintenance issues requiring servicing.



#### **TIRE MANAGEMENT**

Asset tracking & performance monitoring. Reporting that provides immediate actions needed to avoid additional spend for Emergency Road Service or driver down time.





#### **OUT OF SERVICE TIRE AUDITS**

Record the state of all tires removed from service and better understand your removal reasons.



## THE FLEETS WE DEPEND ON DEPEND ON BANDAG

## MODERN RETREADING: A LESSON IN SIMPLICITY

In 10 expedient stages, the process is complete, and your fleet is safely back on the road. BASys Manufacturing is where it starts. Bandag dealers with this technology assign a unique barcode to every casing so it can be tracked in real time, making retreading more efficient. Here's how the rest of the process unfolds.



Step 1A: Initial Inspection

Trained Bandag specialists perform a visual, handson inspection from bead to bead inside and out. This is done to find and mark all visible injuries.



**Step 1B: Electronic Inspection** 

Actual damage can be closely evaluated by looking "through-the-tire" in the crown and sidewall areas that may not be visible to the naked eye.



Step 2: Shearography

This determines conditions within the casing, subjecting it to a vacuum while lasers measure surface anomalies. An animated visual of the anomalies determines casing condition.



Step 3: Buffing

The casing is inflated to its operational shape.
The process removes the worn tread surface,
trues up the roundness and prepares the surface
for a new tread.



Step 4: Skiving

Any steel cord material from rock drills and penetration, and also any rusted steel cords are removed by the technician to ensure such defects won't worsen, possibly resulting in a retread failure.



Step 5: Repair

Any damaged material identified during initial inspection is removed and repairs are made, essentially returning the casing to a useful life.





Give fleets a behind-the-scenes view of the world-class retread manufacturing process. The Bandag plant tour highlights the unique ways that Bandag extends the life of a tire casing, reduces environmental waste, and saves you money on tire expenses. Personalized tours will last 30-45 minutes.





**Step 6: Applying Cushion** 

An uncured bonding layer is extruded onto the prepared casing surface and all skives are filled. The casing is ready for a new tread.



Step 7: Building

A new tread is automatically applied with attention to precise detail. The tread must be straight and perfectly centered on the casing.



Step 8: Enveloping

The assembled but uncured tire is encased in an elastic envelope and prepared for curing.



Step 9: Curing

The curing chamber causes the bonding layer in the tire to cure and permanently adhere the new tread.



**Step 10: Final Inspection** 

A visual, hands-on inspection is repeated to ensure our quality specifications are met.



**Bandag Retread Plant Tour** 

Give a tour of a Bandag retread plant. Show the process from beginning to end, which includes repairing a damaged casing and applying tread.



## **DRIVE COSTS DOWN**



Fleets that want to save more turn to retreads. Use our retread calculator to see how it works.

to use the retread calculator



## SAVINGS CALCULATOR

#### **CHOOSE YOUR SEGMENT**

Longhaul

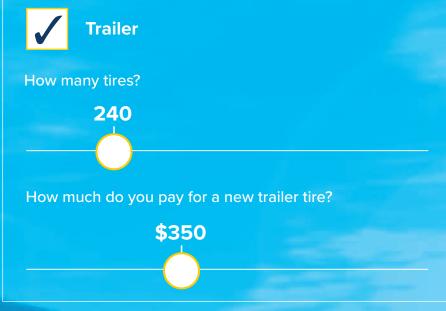


TOTAL SAVINGS<sup>1</sup>

\$243,907

**PER YEAR** 





For illustrative purposes only.

All values are calculated using U.S. dollars and U.S. customary units. 1 Results are estimates and are used for illustrative purposes only. Many variables will affect your results. For more information, please contact your local Bandag dealer or Bridgestone Commercial Sales representative.

## FUELTECH

FuelTech retreads. A lower total cost of ownership solution.





### UAP2™ ALL-POSITION

\_\_\_ APPLICATION

17/32<sup>NDS</sup>

SmartWay® / CARB



Engineered to increase the value of your retread investment by creating savings through excellent fuel efficiency and improved wear life.



applications in long-haul and regional service.





The B123 FuelTech tread combined with R123 casing is designed to reduce energy loss by 4.7% for optimum fuel efficiency.



B835™ - Fuel-efficient B135™ - Bandag's most fuel-









## **ADVANCED TIRE MONITORING SERVICES**

It's time to move fleets more intelligently than ever before.

Get real time data on tire pressure monitoring, temperature, speed and more to help detect and avoid tire issues before they happen, which can help reduce downtime and tire costs.

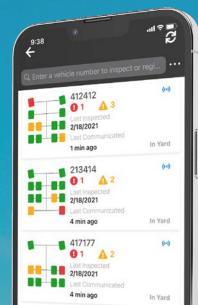
#### A Modern Approach to Tire Monitoring

Advancing TPMS solutions for nearly every tire from any tire manufacturer, Bridgestone Fleet Care's Tire Monitoring Service provides the tool kit for commercial fleets in a variety of trucking applications, including but not limited to long-haul, severe service, waste and recycling, parcel and delivery, etc., to help reduce tire costs, increase labor productivity and help improve fleet safety.

Bridgestone Fleet Care's Tire Monitoring Service helps technicians work smarter while improving transparency for fleet managers.

Combining durable hardware with a software application, fleets can address tirerelated issues before they result in costly downtime.





### **FEATURES**



#### **IMPROVE UPTIME**

Save money on tire costs by reducing drive downtime and non-retreadable tires.



#### PROACTIVE TIRE MAINTENANCE

roactively address tire pressure issues with an utomated task list that updates in real time



#### **INCREASED TECHNICIAN PRODUCTIVITY**

ncrease technician productivity with digital inspections and electronic reports.



#### **ENHANCED DRIVER SAFETY**

Stay compliant and increase driver safety by optimizing your fleet's tire management.

#### DOWNLOAD THE APP NOW











## PREVENTATIVE MAINTENANCE ROADSIDE ASSISTANCE VEHICLE SERVICE REQUESTS

It's time to move fleets more efficiently than ever before.

Whether you want to decrease driver downtime, save operational costs, or enhance how your company reports breakdown repairs, Bridgestone Fleet Care's Service Event Management platform has a solution to help your productivity grow.

Bridgestone Fleet Care's Service Event Management platform is a driver productivity platform designed to help reduce downtime. The application makes preventative maintenance, roadside assistance and other vehicle service requests simpler and more efficient for fleets of all sizes.

## What Service Event Management Can Do For Fleets:

- » Reduce, and in some cases eliminate, touchpoints which accelerate event dispatch and setup.
- » Transparent and centralized communication.
- » Move away from verbal communication toward a digital record.
- » Track Orders and service events through the dashboard.
- » Schedule service or product deliveries.
- » Record, in details, the exact issue or service needed.
- » Receive pictures and notifications of services and products.

## What Service Event Management Can Do For Dealers:

- » Feed services into the application, no matter the brand of product or service performed.
- » You can assign service events directly to a technician via the tech scheduler.
- » Fleets and call centers can set up agreements to allow auto approvals.
- » Helps by ensuring all communication is transparent.
- » Portal gives you access to transactional data and time logs.
- » Legacy systems, like POS, is integrated.

## HELP REDUCE DOWNTIME

## FOR FLEETS

#### **FEATURES**



#### **IMPROVE UPTIME**

Improved productivity for fleets with faster response to roadside breakdowns.



#### AUTOMATIC DEPLOYMENT

Improved productivity for service providers with automated deployment of technicians.



#### ENHANCED COMMUNICATION

More efficient communications with digital event data, photo and document tracking.



#### BETTER VISIBILITY

Inclusive visibility to all service event stakeholders, from event inception to completion.

#### DOWNLOAD THE APP NOW









SUSTAINABILITY

## GO GREEN TO SAVE GREEN

As a member of the Bridgestone family, Bandaq's commitment to the environment is stronger than ever. Since 1957, we've kept an estimated 300 million tires out of the waste stream and saved some 4 billion gallons of oil—all while helping fleets lower operating costs<sup>1</sup> with retreads that perform like new tires at a fraction of the

In support of Bridgestone's mission "to help ensure a healthy environment for current and future generations," we believe Bandag is a leader in sustainability practices, starting with the production of some of the lowest rolling resistance retreads on the market.

Going green is not just a trend to us-it's part of who we are.

#### SUSTAINABILITY SAVINGS ADD UP

In 2022 alone, Bandag production saved over<sup>2</sup>:



~ 105 MILLION

Gallons of oil



~ 207 MILLION

Pounds of tire waste



~ 290 MILLION

Pounds of total waste



500,000 HOMES

Equivalent energy saving to power ~ 500K homes for one full year.



## BRIDGESTONE PARTNERS WITH TRUCKERS AGAINST TRAFFICKING

Modern-day slavery, or human trafficking exists whenever people are bought and sold for forced labor or commercial sex. Around the world, it is estimated that there are over 50 million slaves today. Human trafficking has been reported in all 50 states, and the number of victims in the United States is estimated in the hundreds of thousands. Traffickers recruit out of our schools, online, in shopping malls, as well as the streets and other locations.

#### **Bridgestone's Commitment: Freedom Driver Level Sponsor**

The Bridgestone family of companies, which include Bridgestone Americas, is a world leader in tire and related technologies. Bridgestone is honored to support the Truckers Against Trafficking (TAT) organization and the tremendous work they are doing on behalf of human trafficking victims in North America. By working together, we can create a safer world fo everyone and help to end the exploitation of vulnerably individuals. That's what really matter

#### You Can Make a Difference

This is where you come in! Truckers Against Trafficking recognizes that members of the trucking, bus and energy industries are invaluable in the fight against this heinous crime. As the eyes and ears of our nation's highways, you are in a unique position to make a difference and close loopholes to traffickers who seek to exploit our transportation system for their personal gain.

Make the Call, Save Lives • 1-888-3737-888 (US) • 1-833-900-1010 (Canad

01800-5533-000 (Mexico) • Text INFO or HELP to BeFree (233733)

### OVER 40 MILLION VICTIMS \$150 BILLION

of human trafficking globally

41% OF REPORTS in last

**OVER 715 CASES REPORTED** 

involved over 1,300 victims

criminal industry across North America

For more information, vis TruckersAgainstTrafficking.or



Source: TruckersAgainstTrafficking.org

5 years involved minors



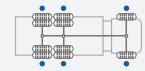
From truckload to off-road, Bandag has you covered with all of your application needs. The most popular tire brand on the road, new or retread, Bandag is continually setting the bar higher for retread reliability, sustainability & fleet savings. Plus, when paired with Bridgestone & Firestone's industry-leading casings, Bandag retreads deliver performance equal to competitive new products.

#### **CHOOSING RETREADS**

is about protecting your bottom line while understanding the bigger picture. There are cost savings for you, economic benefits for the whole industry and energy savings for the whole planet.

VIEW BANDAG PRODUCTS →

#### **PREMIUM ALL-POSITION**



Less Than Truckload / Truckload / Distribution & P&D



Offers improved performance over our previous generation all-position retread products for tough city and on-highway applications. Design changes and a proprietary compound delivers long wear life and low rolling resistance while a unique triangle sipe improves shoulder durability.

Tread Widths Available: 190MM, 200MM, 210MM, 220MM, 230MM, 240MM

BRR-UWB™

APPLICATION

• Truckload

• Less Than Truckload

• Distribution & P&D

16/32NDS

Wide Base

Features a deeper tread for more miles before removal and straight grooves for excellent water evacuation, ideal for higher scrub trailer applications.

Tread Widths Available: 390MM

Waste



A proprietary compound and advanced design in next generation BRM3™ improves wear life and durability over predecessor Bandag BRM2™ tread product. Combined with improved wet traction, BRM3™ delivers more performance for refuse applications. **Tread Widths Available:** 210MM, 220MM, 230MM, 240MM, 250MM, 260MM, 270MM, 280MM, 295MM, 320MM, 345MM, 365MM, 390MM, 400MM, 410MM



Wide base tread designed to provide better wear across multiple wheel positions through a rib-lug design and solid shoulders to combat scrubbing.

Tread Widths Available: 290MM, 320MM, 340MM, 365MM. 390MM

bandag



Severe Service

An all-position on/off highway tread designed to extend wear life in regional haulers who also travel off-road as part of their work. Engineered to resist stone retention through optimized groove shapes to assist with extending the life of your casing.

**Tread Widths Available:** 190MM, 200MM, 210MM, 220MM, 230MM, 240MM





Commercial | Recreational

Designed for all wheel positions in light commercial applications that deal with severe inner city driving conditions as well as highway usage.

**Tread Widths Available:** 160MM, 170MM, 180MM, 195MM, 205MM, 210MM



Wide base radial & bias rib tread designed for the severe service application.

Tread Widths Available: 15, 16.5, 18

#### **ROLLING RESISTANCE: WHY IT MATTERS**

Rolling resistance is a measurement of the energy it takes to roll a tire on a surface. For truck tires, rolling resistance has a direct and significant correlation to the fuel economy of the vehicle. Whether you run a single truck or an entire fleet, tire rolling resistance is a crucial element that should be taken into account to minimize fuel costs. Since fuel costs are one of the biggest expenses in trucking operations, as tire rolling resistance decreases, your savings add up.

THE FLEETS WE DEPEND ON DEPEND ON BANDAG

## WHAT AFFECTS THE ROLLING RESISTANCE OF A TRUCK TIRE?



#### The Most Common Factors:

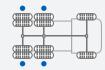
- Casing materials. age. weight
- Tread materials. age. tread depth
- Tire pressure Tire position Truck load

Of the factors that affect rolling resistance, the choice of what casing and tread you use directly impacts your fuel costs. The casing includes the belts, sidewall, beads and rubber that surrounds those components, and is responsible for approximately 50-65% of the overall rolling resistance of a tire. Tread rubber, including the rubber that contacts the road surface, can contribute 35-50% of the tire rolling resistance.

Source: Bandag.com/en-us/research-center/lowering-fleet-costs



#### **PREMIUM DRIVE**



Less Than Truckload / Truckload / Distribution & P&D



Engineered to increase the value of your retread investment by creating savings through excellent fuel efficiency and improved wear life. Best of all, the Bandag B713 delivers against your bottom line without compromising on traction or reliable performance.

Tread Widths Available: 210MM, 220MM, 230MM, 240MM



A drive retread is designed for tandem-axle tractors in truckload and less-than-truckload applications, and was specifically engineered to complement the Bridgestone M760 Ecopia™ radial tire.

Tread Widths Available: 210MM, 220MM, 230MM, 240MM, 390MM



SmartWay & CARB compliant, aggressive open shoulder tread designed for tough single axle applications.

Tread Widths Available: 210MM, 220MM, 230MM, 240MM



A wide base drive tread design complements the Bridgestone Greatec™ M835™ Ecopia™. It features an advanced fuel-efficient compound to produce long tread life and exceptional fuel economy for fleets using wide base tires on tandem axles in over-the-highway service.

Tread Widths Available: 390MM, 400MM



Over-the-road tandem axle drive tread holds traction as tread wears. A high grip design and long-wearing compounds deliver outstanding traction and mileage.

Tread Widths Available: 210MM, 220MM, 230MM, 240MM



Over-the-road tandem axle drive tread holds traction as it wears. High-grip design and long-wearing compounds deliver outstanding traction and mileage.

Tread Widths Available: 210MM



Less Than Truckload / Truckload / Distribution & P&D





Tread design and compound built for long lasting performance that helps you lower your tire operating costs over the life of the your truck. That's MegaTrek, a deep aggressive tread design with solid shoulders that keeps your truck rolling for the long haul.

Tread Widths Available: 200MM, 210MM, 220MM. 230MM, 240MM



This new regional and long-haul drive pattern is projected to deliver a 20% improvement in wear life compared to the previous generation Bandag BDR-W1 plus an aggressive, open shoulder tread design that maintains traction and control in winter conditions. Tread Widths Available: 200MM, 210MM, 220MM, 230MM, 240MM, 260MM



A deep, all weather tread pattern that offers reliable traction and mileage for a range of applications.

Tread Widths Available: 200MM, 210MM, 220MM. 230MM, 240MM, 250MM, 260MM



THE FLEETS WE DEPEND ON DEPEND ON BANDAG

Designed for high-torque, single-axle tractors in LTL situations, the BDR-HT3 is more durable than ever.

Tread Widths Available: 210MM, 220MM, 230MM, 240MM

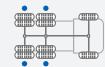


Designed to give your trucks traction in almost any weather condition. The BDR-AS delivers the gripping power to get you to where you need to be.

Tread Widths Available: 170MM, 180MM, 190MM. 200MM, 210MM, 220MM, 230MM, 240MM



#### **PREMIUM DRIVE**



Less Than Truckload / Truckload / Distribution & P&D

BDR-UWB<sup>TM</sup>

APPLICATION

Truckload

Less Than Truckload

24/32<sup>NDS</sup>

Wide Base

Wide base tread designed to deliver great tread wear for truckload/LTL applications.

Tread Widths Available: 380MM, 390MM

APPLICATION

Truckload

Less Than Truckload

Distribution & P&D

22/32NDS

Single | Tandem | Straight

Aggressive drive tread designed for truckload, LTL, and P&D applications.

**Tread Widths Available:** 6, 7, 8, 8.5, 9

Severe Service

BDM3™

APPLICATION

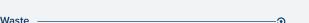
• Waste

32/32NDS

Single | Tandem

BDM3 is the next generation refuse drive tire designed to extend tread life and maintain traction over its predecessor BDM2. The BDM3 also utilizes a new stone rejection technology that will assist in extending casing life.

**Tread Widths Available:** 210MM, 220MM, 230MM, 240MM, 250MM, 270MM, 280MM





This deep, asymmetric and aggressive tread design is specially designed for waste fleets where there is constant turning in a single direction.

Tread Widths Available: 290MM, 315MM, 340MM, 365MM, 390MM



28/32<sup>NDS</sup>
Wide Base

Severe service drive tread designed to perform in mixedservice environments such as construction sites and oil fields.

Tread Widths Available: 210MM, 220MM, 230MM, 240MM



Wide base tread design for severe service drive applications.

Tread Widths Available: 300MM, 320MM, 340MM

bandag

ad Widths Available. 210MM, 220MM, 230MM, 240MM

#### Severe Service



Deep tread designed for single and tandem axle, radial and bias severe service applications.

Tread Widths Available: 9, 12, 13, 14



Deep tread designed for single and tandem axle, severe service applications.

Tread Widths Available: 8.5, 9, 10



THE FLEETS WE DEPEND ON DEPEND ON BANDAG

An aggressive traction drive-axle tread engineered for hard-working on-off road trucks.

Tread Widths Available: 210MM, 220MM, 240MM



Designed for enhanced traction on unimproved surfaces found in such environments as logging and oil fields.

Tread Widths Available: 210MM, 220MM, 230MM, 240MM



On/off highway drive tread designed to extend wear life for those who travel off-road as part of their work. The BLSS enlist Bridgestone's new stone rejection technology to resist stone retention. Bandag's specialized tread compound resist cutting and chipping which gives you piece of mind while driving in on and off-road environments. **Tread Widths Available:** 200MM, 210MM, 220MM, 230MM, 240MM, 250MM, 270MM

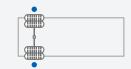


Wide base tread designed to deliver great mileage with a deep tread in severe service applications.

Tread Widths Available: 345MM, 355MM, 365MM, 390MM



#### **PREMIUM TRAILER**



Less Than Truckload / Truckload / Distribution & P&D



The B123 FuelTech tread combined with R123 casing reduces energy loss by 4.7% for optimum fuel efficiency. Engineered to deliver a 5% improvement in wear performance compared to B197 FuelTech through optimized tread design.

#### Tread Widths Available: 210MM, 220MM, 230MM, 240MM

\*Disclaimer: Comparison based on Bandag B123 tread with R123 casing versus Bandag B197 tread with R197 casing. Results may vary.



Designed for spread axle and multi-axle applications, BTL-SA provides serious protection from casing damage caused by twisting, scraping or scrubbing. Ideal for loading dock maneuvering and resists cutting and tearing. Tread Widths Available: 200MM, 210MM, 220MM, 230MM, 240MM



A trailer tread engineered to deliver both high mileage and fuel efficiency. The FCR-T2 is designed to succeed the FCR-T and is shown to extend tread life by 4% by combating irregular wear through its solid shoulder ribs and flat tread pattern.

Tread Widths Available: 190MM, 200MM, 210MM. 220MM, 230MM, 240MM



For on-highway applications. Outside ribs enable this tread to withstand the extra stress and punishment put on tires during turns and cornering.

Tread Widths Available: 380MM, 390MM



Fuel-efficient wide base trailer retread is design with an advanced fuel-efficient compound for fleets using wide base tires on tandem axles in over-the-highway use. Compliments the Bridgestone R135 Ecopia wide base trailer tire.

Tread Widths Available: 390MM, 400MM



For on-highway multi-axle applications. Outside ribs enable this tread to withstand the extra stress and punishment put on tires during turns and cornering.

Tread Widths Available: 290MM, 300MM, 310MM, 315MM, 320MM, 340MM

Intermodal



ITR2 features a 11/32 trailer design for a wide range of trailer applications.

Tread Widths Available: 190MM, 200MM, 210MM, 220MM, 230MM

#### What consumes fuel?

#### Position Contribution to Fuel Economy

In general, the contribution of the tires on any given axle to overall vehicle fuel efficiency is roughly determined by the amount of load on that axle. In general, trailer tires make the largest contribution. If you are evaluating tires, you should probably try fuel-efficient trailer tires first. If that doesn't work, changing drive and steer tires probably won't either.

THE FLEETS WE DEPEND ON DEPEND ON BANDAG



THE TRAILER WHEEL POSITION HAS THE GREATEST IMPACT ON FUEL CONSUMPTION.

-Axle weight distribution and position contribution to fuel economy

#### 80,000 lb. Single Trailer



Fuel Consumption

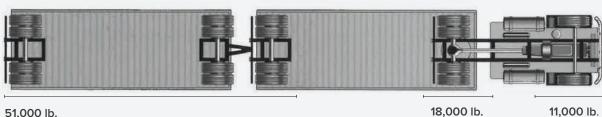
34,000 lb.

34,000 lb. 42% 39%

12,000 lb. 16% 18%

WEIGHT

Weight % Fuel Consumption



Fuel Consumption

64%

18,000 lb. 23% 20%

11,000 lb. WEIGHT 14% Weight % Fuel

16% Consumption



Graph is for illustrative purposes only. Source: Bridgestone Truck Tire Data Book

Specialty radial & bias tread designed for switcher truck applications.

**Tread Widths Available:** 3, 6, 7, 8

Specialty - Other



A proven design for intermodal radial tires that combines Bandag quality and reliability with a low up-front price for today's cost-conscious intermodal fleets.

Tread Widths Available: 200MM, 210MM



Drive tread with overlapping lugs and lug element sipes to enhance traction. Wide groove angles to help channel water and snow out of the footprint. Specifically designed for truck trade-ins.

Tread Widths Available: 210MM, 220MM, 230MM



A proven design for intermodal bias tires that combines Bandag quality and reliability with a low up-front price for today's cost-conscious intermodal fleets.

Tread Widths Available: 180MM, 190MM

Specialty - Industrial ———



Industrial tread designed for single and tandem axle configurations.

Tread Widths Available: 8, 11.5, 13



Industrial tread designed for radial and bias skid steer applications.

Tread Widths Available: 220MM, 240MM, 275MM



Industrial tread designed for single and tandem axle configurations.

Tread Widths Available: 8, 13

Specialty - Industrial



Industrial tread designed for traction in single and tandem axle configurations.

Tread Width Available: 14



Deep traction tread designed for truckload and LTL fitments in an industrial application.

Tread Width Available: 325MM



Industrial tread designed for radial and bias truckload and LTL applications.

**Tread Widths Available: 16, 18** 



Industrial tread designed for radial and bias truckload and LTL applications.



Industrial tread designed for radial and bias light OTR and severe service applications.

Tread Widths Available: 12.5, 13, 14





## THE MORE YOU RETREAD, THE MORE YOU SAVE

Help maximize tire performance and reduce total costs by retreading a premium Bridgestone tire with a Bandag retread. This practice has been proven to increase fuel efficiency, extend the life of the casing, and maximize tire performance, which saves fleets millions of dollars annually.



#### 51.000 U.S. JOBS SUPPORTED

The retread tire industry directly supports a remarkable number of our country's workforce.



#### **FUEL EFFICIENT**

A Bandag retread outperforms most new and retread tires in fuel efficiency second highest in the category.



#### \$28.4 BILLION VALUE ADDED

Retreads add enormous value to the U.S. economy every year.



#### 30% LOWER COST

Retreads are 30% lower in cost compared to new tires for similar performance based on internal Bridgestone field evaluations.



#### 500% LONGER LIFESPAN

A premium tire/retread combination can last up to 500% than ultra low-cost new tires that are used only once.



#### LOWER ROLLING RESISTANCE

Quality retreads often have lower rolling resistance and provide better fuel efficiency.



When it comes to retreads, life-cycle analysis on major tire brands¹ have demonstrated substantial benefits to the environment. These studies detail a host of benefits that may impact global warming, resource reductions, CO<sub>2</sub> and particle emissions, and even land usage. For example, a single 18-wheel truck that utilized retreaded tires in lieu of new tires is estimated to save enough energy to power 29,000 homes for one hour.2

\* The information is based on third-party studies and are for illustrative purposes only. Actual results and impacts may vary



Reduced CO<sub>2</sub>

emissions by

24%

SPEED



extraction by

24%





19%

Reduced natural resource Reduced water consumption by

Reduced air pollution by 21%



29%

1 The socio-economic impact of truck tyre retreading in Europe. October 2016.

2 Report on "Retread Tires in the United States and Canada." This analysis considered only the manufacturing phase of the value chain and would likely increase if all phases were considered.

Source: Bandag.com/en-us/research-center/retreads-and-the-impact-on-the-environment





## **READY-TO-ROLL RETREADS** FOR MAXIMUM SAVINGS AND **EXCEPTIONAL QUALITY.**

Available with eight tread patterns to meet all application needs: Waste, Pick Up & Delivery, Long Haul, Severe Service, Light Truck.



## **100% COVERAGE** FOR THE LIFE OF THE TREAD

Enjoy peace of mind with our lifetime limited warranty. For warranty information, please refer to Bandag.com/en-us/warranty-info

> at 1,800 stores acros North America.

#### THE MAXTREAD DIFFERENCE

MaxTread is a complete, road-ready, budget-friendly tire that offers dependable performance. Each MaxTread tire is locally manufactured and available nationwide using industry-leading technology, Shearography, which scans each tire from bead to bead in under two minutes to ensure maximum quality. MaxTread tires feature a 100% limited warranty for the life of the tread on first-time retreads.\* Count on MaxTread to keep your fleet moving on and off the highway.

For warranty information, please refer to Bandag.com/en-us/warranty-info



THE FLEETS WE DEPEND ON DEPEND ON BANDAG

# MAXTREAD

Made with the #1 REPLACEMENT BRAND on the market

## WHY MAXTREAD FOR YOUR FLEETS?







## What's important to fleets:

- Affordable tires within budget
- Confidence the right decision is made
- Dealer / CSR recommendations
- A recognizable and trustworthy brand

### MAXTREAD IS THE SOLUTION

**LIMITED WARRANTY FOR 100%** OF THE LIFE OF THE TREAD

**GREAT VALUE AT** LOW MARKET PRICE **DEALER MANUFACTURED** AND PROMOTED





#### THE MAXTREAD DIFFERENCE

The Bandag MaxTread line features quality Bandag retreads as a standalone, single unit tire solution, rather than a traditional tire cap and casing offering. The line includes trailer, drive and all-position fitments for light truck, waste, long haul, severe service, and pickup and delivery applications.

The Bandag MaxTread line includes the eight popular Bandag retread patterns outlined below:

**Drive position:** DR 5.3™, DR 4.3™, BDM™, BDLT™ (Light Truck)

All-position: BDV™. BRM™

Trailer position: TR 4.1™, ECL-SST™

 Lifetime Limited Warranty\* **100% COVERAGE** FOR THE LIFE OF THE TREAD

Enjoy peace of mind with our lifetime limited warranty. For warranty information, please refer to Bandag.com/en-us/warranty-info

DR 5.3™ Drive **APPLICATION**  Truckload 22/32<sup>NDS</sup>

- Less Than Truckload
- Distribution & P&D

Single | Tandem | Straight

A closed-shoulder drive tread that provides solid wear at an affordable price. With a competitive price and solid all-around performance that utilizes a proven, durable compound, the DR 5.3 is an excellent option for TL, LTL, and P&D customers who want a long-wearing drive retread product.

Tread Widths Available: 190MM, 200MM, 210MM, 220MM, 230MM, 240MM



DR 4.3™ Drive

#### APPLICATION

- Truckload
- Less Than Truckload
- Distribution & P&D

22/32<sup>NDS</sup>

Single | Tandem | Straight

The open shoulder, Bandag DR 4.3 retread offers traction and longevity for a variety of applications, including light on/off highway, and is a good choice for fleets seeking dependable performance and long-term value.

Tread Widths Available: 190MM, 200MM, 210MM, 220MM, 230MM, 240MM



Aggressive lug pattern delivers strong traction while solid shoulders provide uniform wear and tread life.

Tread Widths Available: 190MM, 200MM, 210MM, 220MM, 230MM, 240MM, 250MM, 270MM, 280MM





Designed specifically for urban fleets that require long tread wear, strong wet braking traction, and solid shoulders to withstand punishing corners and curbs.

Tread Widths Available: 190MM, 200MM, 210MM, 220MM, 230MM, 240MM, 250MM, 260MM, 270MM



Specially engineered rib design for refuse and construction applications.

Tread Widths Available: 190MM, 200MM, 210MM, 220MM, 230MM, 240MM, 250MM, 260MM, 270MM, 280MM



The durable TR4.1 provides affordable and dependable wear life performance. With features that also promote solid traction, this trailer tread product delivers the allaround performance fleet customers demand.

Tread Widths Available: 190MM, 200MM, 210MM, 220MM, 230MM, 240MM



An on/off highway trailer tread engineered to deliver long wear life on multiple surfaces. Equipped to handle the twisting and turning routes of tough applications including construction, mining, bulk carriers and more.

Tread Widths Available: 6, 7, 8, 8.5, 9, 9.5, 10.5



Delivers relentless traction and responsive handling in all weather conditions without sacrificing tread wear

Tread Widths Available: 160MM, 170MM, 180MM, 190MM. 200MM, 210MM, 220MM, 230MM



### RECOMMENDED MEDIUM TRUCK TIRE APPLICATION © RECOMMENDED © SUITABLE & 3PMSF





SERVICE TYPE	PRODUCT	STEER	DRIVE		TRAILER		REPLACES	
			SINGLE	TANDEM	TANDEM	SPREAD	GoodYear	Michelin
Less Than Truckload Truckload	B123 FUELTECH						UniCircle Fuel Max LHT	X Line EnerT
	B135 FUELTECH						Unicircle G394 SST Fuel Max Precure G394 SST	X One Multi EnerT X One Line EnerT2
	B835 FUELTECH						UniCircle G392A Fuel Max	X One Line EnerT
, 00 0	B713 FUELTECH						UniCircle Endurance LHD	X Line Multi EnerD
	B760 FUELTECH						Precure G572	X Line Multi EnerD XDN 2
	BDR-AS						Precure G622 RSD Precure G167	XDC 22
	BDR-HG						UniCircle G182 Precure G182A/G182	XDN 2
	BDR-HG-L						UniCircle G182 Precure G182A/G183	XDN 2
	BDR-HT3						UniCircle G622A RSD Precure G622 RSD	XDHT XDA-HT
	BDR-UWB						Precure G392 SSD	
	BDR-W2						Precure Endurance WTD Precure Winter Trac 2	XDS 2+
	BRR-UWB						Precure G394 SST	X One XZU S
	BTL-SA						UniCircle Endurance RST Precure G619 RST	XTA-2, XTA, XZE 2
	BTR-UWB						UniCircle G394A Fuel Max Precure G394 SST	X One Line EnerT
	BTT2							
	ECL Mud & Snow							
	ECL- ST-M						UniCircle G186 MSA Precure G186 MSA	XZY
	FCR T2						UniCircle G314 UniCircle G316 AT Precure G314	XTA-2
	Gripper Deep							XM+S4

SERVICE TYPE	PRODUCT	CTEED	DRIVE		TRAILER		REPLACES		
		STEER	SINGLE	TANDEM	TANDEM	SPREAD	GoodYear	Michelin	
ess Than ruckload ruckload	MEGATREK 🔬						Precure G372		
	METROMAX RIB						UniCircle Endurance RSA 16"		
	ML-70								
	ML-80								
	UAP2 FUELTECH						UniCircle G661 Precure G661	XZE XZE2	
	ULTRA DRIVE						UniCircle G182 Precure G182A/G182	XDN2	
	HT5 FUELTECH						Precure G182 Precure G338	XDN2	
	BDR-AS						Precure G622 RSD Precure G167	XDC 22	
	BDR-HG						UniCircle G182 Precure G182A/G182	XDN 2	
	BDR-HT3						UniCircle G622A RSD Precure G622 RSD	XDHT XDA-HT	
	BDR-W2						Precure Endurance WTD Precure Winter Trac 2	XDS 2+	
	BRR-UWB						Precure G394 SST	X One XZU S	
	ECL Mud & Snow								
	METROMAX RIB						UniCircle Endurance RSA 16"		
	UAP2 FUELTECH						UniCircle G661 Precure G661	XZE XZE2	
	ULTRA DRIVE						UniCircle G182 Precure G182A/G182	XDN2	
	HT5 FUELTECH						Precure G182 Precure G338	XDN2	

#### RECOMMENDED MEDIUM TRUCK TIRE APPLICATION RECOMMENDED SUITABLE & 3PMSF

STEER

PRODUCT

B799

**BDX** 

BRSS

ECL SSD

**LUG TRAC** 

BLSS

Grader

BDM3

BRM3

BRM-WB

WBD-A

BDC

**ESL** 

Build Up

Rock Lug Deep

вомз 🔬

BDY2

**SERVICE TYPE** 

Severe Service

Waste & Recycling

TRAILER

TANDEM SPREAD

DRIVE

TANDEM

SINGLE

Precure G282 MSD

Precure G292 WHD

Precure G177M 27

Precure G177M 32

Precure G741 MSD

Precure Lug Logger

UniCircle G278 MSD

Precure G278 MSD Precure G177M 27

Precure G177M 32

Precure Endurance WHD

Precure G292 WHD Precure Endurance WHA

Precure G289 WHA

Precure Wide Base Rib

Precure G286

Precure Endurance WHD



**REPLACES** 

XDE M/S

XDY

XDY

XDT-EX

XZY 3

XZL Widebase

XDY

XDY

XZUS

XZY3 Widebase

XZY Widebase

Michelin

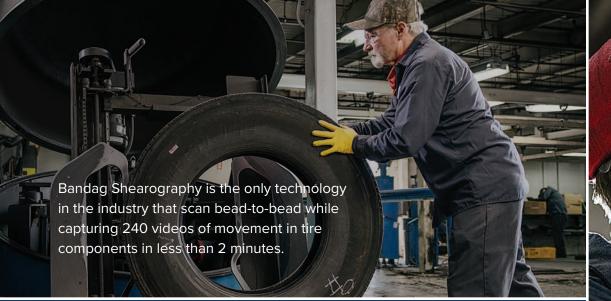




SERVICE TYPE	PRODUCT	STEER	DRIVE		TRAILER		REPLACES	
			SINGLE	TANDEM	TANDEM	SPREAD	GoodYear	Michelin
Intermodal	INTSIT RB BIAS							
	ITR2							
	ITR-B							
	ITR-R							
Specialty	ISR		•	•				



SERVICE TYPE	PRODUCT	STEER	DRIVE		TRAILER		REPLACES	
			SINGLE	TANDEM	TANDEM	SPREAD	GoodYear	Michelin
Less Than Truckload Truckload Distribution & P&D	BDV 🔬	•					Precure G362	XD2 2+
	TR 4.1						Precure G159 Precure G159 HS	XTA
	DR 5.3						Precure G372	XDHT
	DR 4.3						Precure G167	XDC 22
	BDLT 🔬						UniCircle Endurance RSA 16"	
Waste	BRM						Precure G289 WHA	XZU-S
Waste & Recycling	BDM						Precure G177M 27 Precure G177M 32	XDY-1
Severe Service	ECL- SST				<b>O</b>		Precure G186 MSA	XZY



# THERE'S RETREADS, AND THEN THERE'S BANDAG





BASys Manufacturing is the industry's advanced information system, and each tire is recorded and tracked through the entire process





Bandag repair techs receive two full days of special training and are certified in Bandag's advanced repair technology that can restore tire casings to useful service.

40,000 to 60,000 volts of electricity are run across the interior of the crown and shoulder of the tire to detect any hidden penetrations through the inner liner that would otherwise be undetectable to the naked eye.





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