

BRIDGESTONE

MASTERCORE

PRODUCT GUIDE

BRIDGESTONE AMERICAS



MASTERCORE A BREAKTHROUGH IN TIRE INNOVATION



DEVELOPMENT

Years of global development and testing of the latest technology.



INVESTMENT

Invested more than 7,000 hours of development in engineering, chemistry and material science.



INNOVATION

New and integrated process, innovative use of materials and proprietary design improvements.



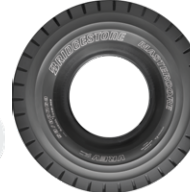
FINDINGS

New rubber compound and anti-rust steel cord development improved belt & casing life.



TESTING

Multiple test sites, under rigorous operations, for quality control.



THE RESULT

MasterCore, delivering improved productivity and a lower total cost of ownership.

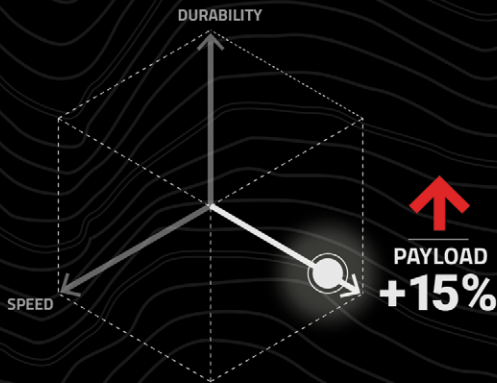
DESIGNED TO ADAPT TO **YOUR MINESITE**



MasterCore, Bridgestone's latest mining tire, is designed with smart tech inside for hard work outside. New, innovative core technology and proprietary design improvements allow these tires to work overtime for enhanced performance. With increased flexibility, these tires can be customized to meet the needs of any site so you can run your mines more efficiently, with greater productivity.

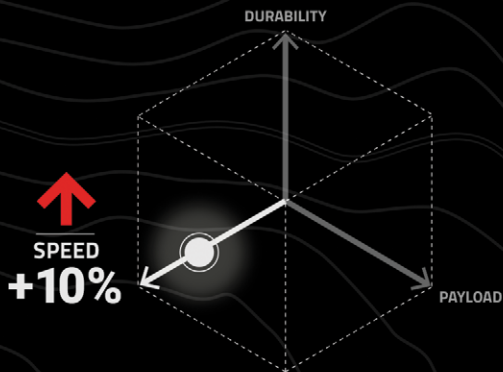
Discover up to **5% more durability, 10% faster speeds, or 15% greater payloads.**
The MasterCore tire's flexibility is made possible by new compounds and a revolutionary steel cord with new anti-rust and adhesion coatings.

Comparison based on standard Bridgestone VRF, Bridgestone VRPS, Bridgestone VREV vs. Bridgestone Mastercore VRF, Bridgestone MasterCore VRPS, Bridgestone MasterCore VREV and Bridgestone MasterCore VZTB when same sizes apply from field data and internal lab testing. Results may vary.



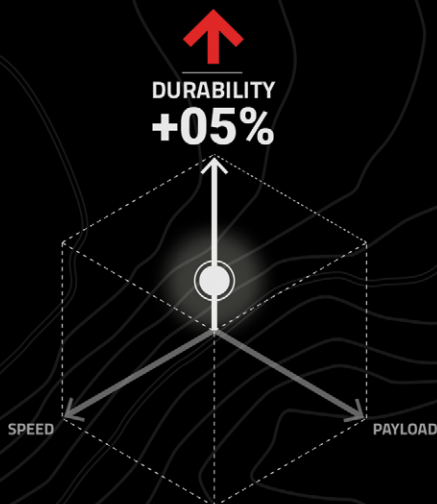
**INCREASED
PAYLOAD**

OR



**INCREASED
SPEED**

OR

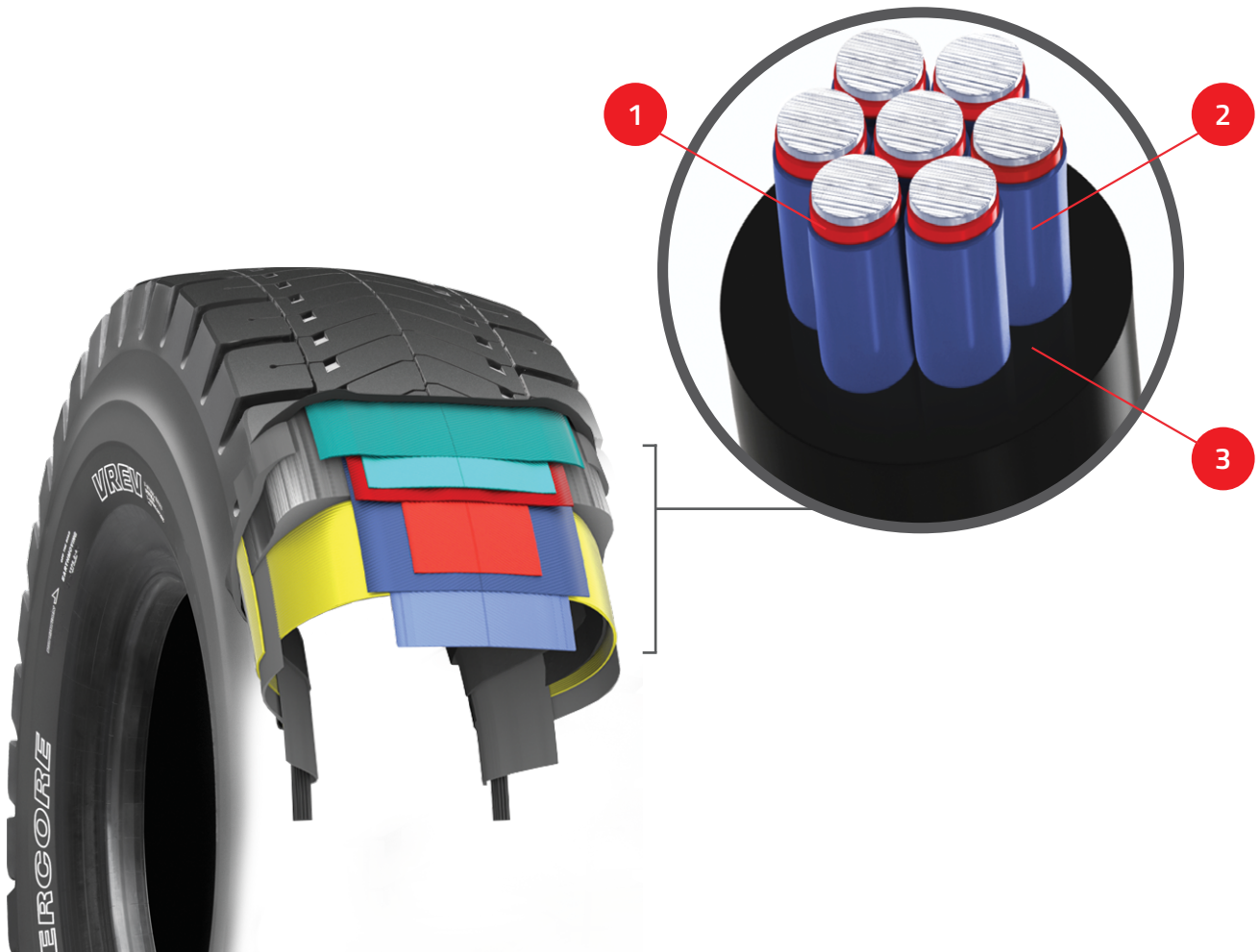


**IMPROVED
DURABILITY**

INNOVATION IS AT THE CORE

PROPRIETARY CASING FOR THE FUTURE

MasterCore tires improve durability through an integrated process, innovative use of materials and proprietary design improvements.*



1. BONDING AGENT OPTIMIZED

Proprietary process applies bonding agent to the steel cord for improved rubber coverage & adhesion.

2. ANTI-RUST STEEL CORD

Improved resistance to rust and damaged belts from cuts and moisture exposure versus conventional tires.

3. NEW RUBBER COMPOUND

New rubber compound improves crack propagation by 20%, resulting in improved belt & casing life.

Comparison based on standard Bridgestone VRF, Bridgestone VRPS, Bridgestone VREV vs. Bridgestone Mastercore VRF, Bridgestone MasterCore VRPS, Bridgestone MasterCore VREV and Bridgestone MasterCore VZTB when same sizes apply from field data and internal lab testing. Results may vary.



VRPS

E-4 RADIAL

V - STEEL ROCK
PREMIUM
SERVICE

- NARROW GROOVES
- WIDE SHALLOW GROOVE
- PROPRIETARY CASING FOR THE FUTURE

SIZE	PLY/STAR RATING	COMPOUND / CONSTRUCTION	TRA / APPLICATION	ARTICLE #	TMPH/TKPH	AVERAGE WEIGHT [LB/KG]	OTD [32 ND /MM]	OVERALL DIAMETER [IN/MM]	OVERALL WIDTH [IN/MM]	LOAD CAPACITY AT 102 PSI [LB/KG]
59/80R63	2*	E1A	E-4	11614	1,038 1,515	12,621 5,725	146 116	158.1 4,017	57.8 1,467	253,500 115,000
59/80R63	2*	E2A	E-4	11615	841 1,228	12,687 5,755	146 116	158.1 4,017	57.8 1,467	253,500 115,000
59/80R63	2*	E3A	E-4	11617	1,215 1,773	12,595 5,713	146 116	158.1 4,017	57.8 1,467	235,500 115,000



VRF

E-3 RADIAL

V - STEEL ROCK
FAST

- UNIQUE TREAD COMPOUND
- OPTIMIZED TREAD PATTERN
- PROPRIETARY CASING FOR THE FUTURE

SIZE	PLY/STAR RATING	COMPOUND / CONSTRUCTION	TRA / APPLICATION	ARTICLE #	TMPH/TKPH	AVERAGE WEIGHT [LB/KG]	OTD [32 ND /MM]	OVERALL DIAMETER [IN/MM]	OVERALL WIDTH [IN/MM]	LOAD CAPACITY AT 102 PSI [LB/KG]
59/80R63	2*	E1A	E-3	11395	1,222 1,784	11,442 5,190	89 71	158.3 4,022	57.1 1,450	253,500 115,000
59/80R63	2*	E3A	E-3	11401	1,404 2,050	11,369 5,157	89 71	158.3 4,022	57.1 1,450	253,500 115,000



VREV

E-4 RADIAL

V - STEEL ROCK
EXTRA
V - OPERATION

- BUTTRESS FINS
- SHOULDER GROOVES
- INNOVATIVE PATTERN
- PROPRIETARY CASING FOR THE FUTURE

SIZE	PLY/STAR RATING	COMPOUND / CONSTRUCTION	TRA / APPLICATION	ARTICLE #	TMPH/TKPH	AVERAGE WEIGHT [LB/KG]	OTD [32 ND /MM]	OVERALL DIAMETER [IN/MM]	OVERALL WIDTH [IN/MM]	LOAD CAPACITY AT 102 PSI [LB/KG]
53/80R63	2*	E1A	E-4	12315	874 1,276	10,937 4,961	139 110	150.2 3,814	51.6 1,311	209,500 95,000
53/80R63	2*	E2A	E-4	12316	740 1,080	11,010 4,994	139 110	150.2 3,814	51.6 1,311	209,500 95,000
53/80R63	2*	E3A	E-4	12317	1,070 1,562	10,911 4,949	139 110	150.2 3,814	51.6 1,311	209,500 95,000
59/80R63	2*	E1A	E-4	1226	1,192 1,740	12,932 5,866	148 118	150.3 4,021	57.8 1,467	253,500 115,000
59/80R63	2*	E2A	E-4	1268	966 1,410	13,025 5,908	148 118	158.3 4,021	57.8 1,467	253,500 115,000
59/80R63	2*	E3A	E-4	4739	1,395 2,036	12,897 5,850	148 118	150.3 4,021	57.8 1,467	253,500 115,000

CONVENTIONAL VS MASTERCORE LOAD CAPACITY [KG] | BASED ON COLD INFLATION

SIZE	RECOMMENDED RIM / FLANGE	TIRE	80 PSI	83 PSI	87 PSI	91 PSI	94 PSI	98 PSI	102 PSI
59/80R63	44.00/5.0	Conventional	85,000	87,500	90,000	92,500	95,000	97,500	100,000
		MasterCore	97,500	100,000	103,000	106,000	109,000	112,000	115,000
59/80R63	41.00/5.0	Conventional	82,000	84,000	86,000	89,000	91,000	94,000	96,000
		MasterCore	94,000	96,000	99,000	102,000	105,000	108,000	110,000
53/80R63	36.00/5.0	Conventional	69,000	71,000	75,000	77,500	80,000	80,000	82,500
		MasterCore	80,000	82,500	85,000	87,500	90,000	92,500	95,000
50/80R57	32.00/6.0	Conventional	61,500	63,000	65,000	67,000	69,000	71,000	73,000
		MasterCore	71,000	73,000	75,000	77,500	80,000	82,500	85,000
50/80R57	29.00/6.0	Conventional	54,500	56,000	58,000	60,000	61,500	63,000	65,000
		MasterCore	63,000	65,000	67,000	69,000	71,000	73,000	75,000
46/90R57	29.00/6.0 (32.00/6.0)	Conventional	53,000	54,500	56,000	58,000	60,000	61,500	63,000
		MasterCore	60,000	63,000	65,000	67,000	69,000	71,000	73,000

Please make sure you are running the appropriate Tire Load Limit, as these vary based on your operation. Contact your Bridgestone representative for additional support.



VRWP

E-4 RADIAL

V - STEEL ROCK
WEAR PREMIUM

- OPEN SHOULDER DESIGN
- NARROW GROOVES
- HIGH TREAD VOLUME
- PROPRIETARY CASING FOR THE FUTURE

SIZE	PLY/STAR RATING	COMPOUND / CONSTRUCTION	TRA / APPLICATION	ARTICLE #	TMPH/TKPH	AVERAGE WEIGHT [LB/KG]	OTD [32 ND /MM]	OVERALL DIAMETER [IN/MM]	OVERALL WIDTH [IN/MM]	LOAD CAPACITY AT 102 PSI [LB/KG]
46/90R57	2*	E1A	E-4	11482	663 968	8,704 3,948	122 97	141.5 3,595	45.1 1,145	161,000 73,000
46/90R57	2*	E2A	E-4	11483	600 876	8,757 3,972	122 97	141.5 3,595	45.1 1,145	161,000 73,000
46/90R57	2*	E3A	E-4	11484	788 1,150	8,684 3,939	122 97	141.5 3,595	45.1 1,145	161,000 73,000



VZTB

E-4 RADIAL

V - STEEL
Z - TRACTION
BEYOND

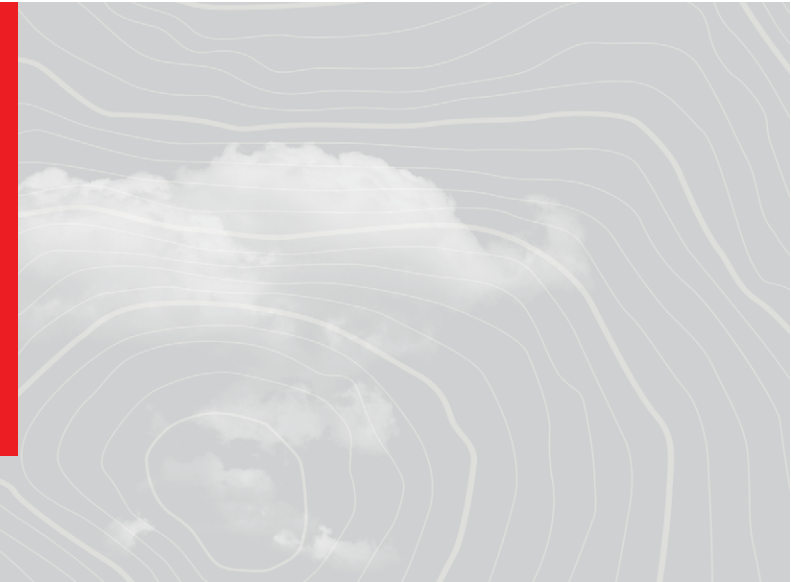
- OPTIMIZED SHOULDER GAUGE
- FULL WIDTH GROOVES
- OPEN GROOVE AREAS
- PROPRIETARY CASING FOR THE FUTURE

SIZE	PLY/STAR RATING	COMPOUND / CONSTRUCTION	TRA / APPLICATION	ARTICLE #	TMPH/TKPH	AVERAGE WEIGHT [LB/KG]	OTD [32 ND /MM]	OVERALL DIAMETER [IN/MM]	OVERALL WIDTH [IN/MM]	LOAD CAPACITY AT 102 PSI [LB/KG]
46/90R57	2*	E1A	E-4	11397	663 968	8,251 3,743	115 91.5	140.9 3,580	45.1 1,145	161,000 73,000
46/90R57	2*	E2A	E-4	11396	545 796	8,296 3,763	115 91.5	140.9 3,580	45.1 1,145	161,000 73,000
46/90R57	2*	E3A	E-4	11399	788 1,150	8,232 3,734	115 91.5	140.9 3,580	45.1 1,145	161,000 73,000



INTELLIGENT PRODUCTS

Bridgestone OTR tires are designed with intelligent technologies to help customers in their quest for reliable performance and improved productivity.



INTEGRATED TECHNOLOGIES

We provide customers with data-driven technology to manage their assets through actionable insights that integrate seamlessly with their tire management program.

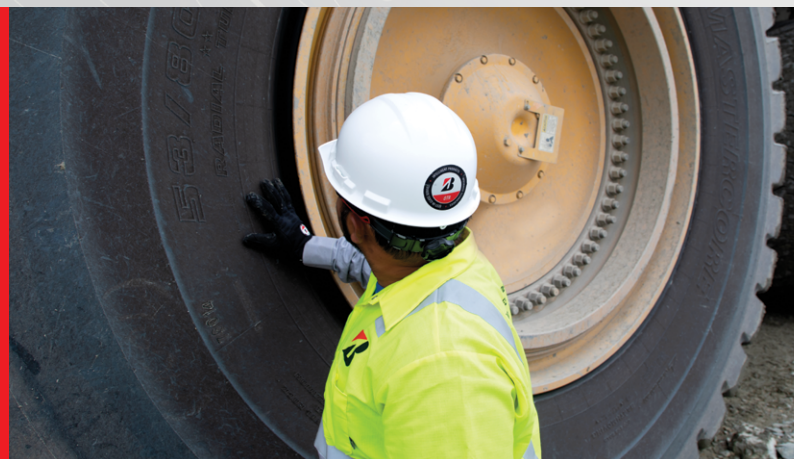


Bridgestone's advanced TPMS provides heat, pressure, acceleration data and more, allowing your fleet to run at optimal operational production across the entire mine, maximizing the life of your haulage assets.

- Early identification of air leaks and managing temperatures
- Enables access to valuable equipment and tire health information
- TPMS data contributes to increases safety and performance

BEST-IN-CLASS SERVICE

Our extensive dealer network offers highly qualified engineers and comprehensive training programs that help improve tire performance and minimize downtime.





200 4th Ave. S
Nashville, TN 37214

CUSTOMER SERVICE
800-572-8905
CUSTOMERSERVICE@BFUSA.COM

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