



# SURFACE MINING

OFF-THE-ROAD SOLUTIONS



**BRIDGESTONE**

**Firestone**

**BRIDGESTONE** **MASTERCORE**

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



MASTERCORE  
**VRPS**

MASTERCORE  
**VRF**

MASTERCORE  
**VREV**

**59/80R63**

**LOAD CAPACITY**  
(LBS / KG) @ 700 KPA / 102 PSI

**253,500**  
115,000

**EXCESS [7%]  
LOAD CAPACITY**  
(LBS / KG) @ 800 KPA / 116 PSI

**267,000**  
121,500

# INNOVATION IS AT THE CORE



## 1] BONDING AGENT OPTIMIZED

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

## 2] ANTI-RUST STEEL CORD

Anti-rust steel cord helps improve resistance to rust and damaged belts from cuts and moisture exposure.

## 3] NEW RUBBER COMPOUND

New rubber compound for belt skim and wedges helps improve crack propagation by 20%, resulting in improved belt & casing



MASTERCORE  
**VREV**

**53/80R63**

**LOAD CAPACITY**  
(LBS / KG) @ 700 KPA / 102 PSI

**209,500**  
95,000

**EXCESS [7%]  
LOAD CAPACITY**  
(LBS / KG) @ 800 KPA / 116 PSI

**220,500**  
100,000



MASTERCORE  
**VRWP**

MASTERCORE  
**VZTB**

**46/90R57**

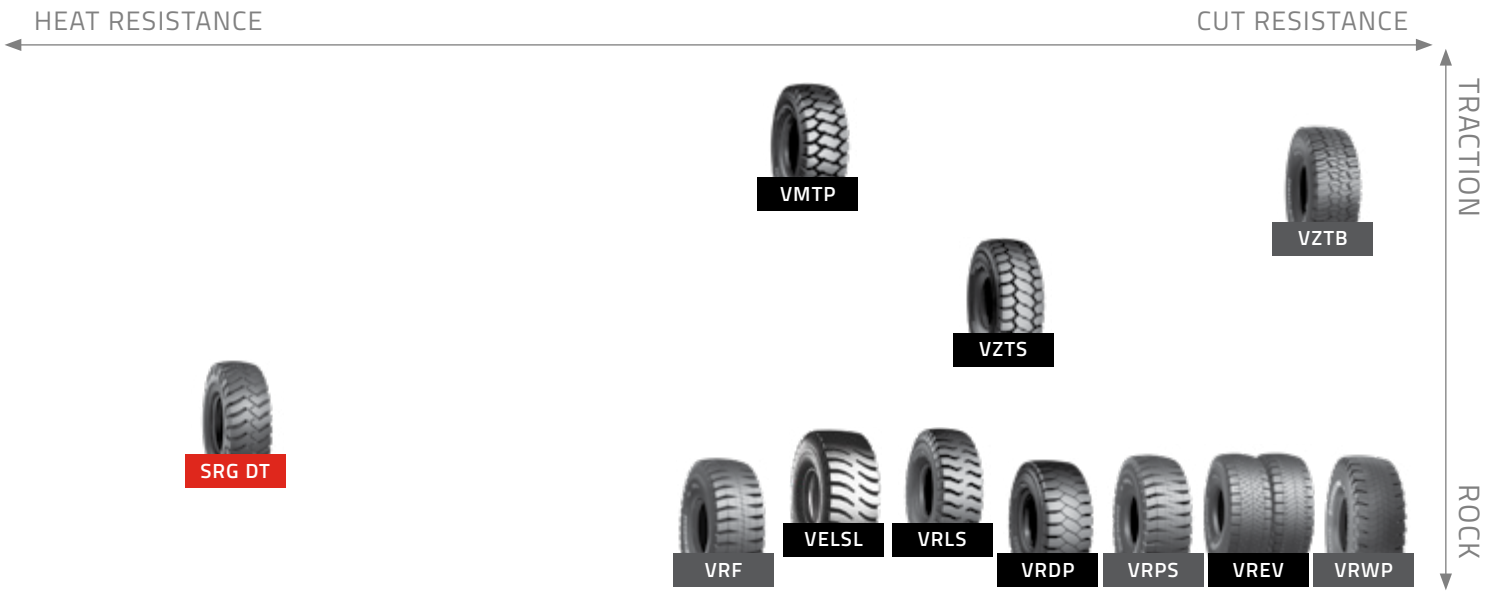
**LOAD CAPACITY**  
(LBS / KG) @ 700 KPA / 102 PSI

**161,000**  
73,000

**EXCESS [7%]  
LOAD CAPACITY**  
(LBS / KG) @ 800 KPA / 116 PSI

**171,000**  
77,500

# RIGID DUMP TRUCK TIRE LINEUP



Pattern	Article #	Size	Ply/Star Rating	Compound / Construction	TRA / Application	Average Weight (LBS / KG)	OTD (32nds / MM)	Overall Diameter (IN / MM)	Overall Width (IN / MM)
<b>VRPS</b>	11614	59/80R63	2*	E1A	E-4	12,621 / 5,725	146 / 116	158.1 / 4,017	57.8 / 1,467
	11615	59/80R63	2*	E2A	E-4	12,687 / 5,755	146 / 116	158.1 / 4,017	57.8 / 1,467
	11617	59/80R63	2*	E3A	E-4	12,595 / 5,713	146 / 116	158.1 / 4,017	57.8 / 1,467
<b>VRF</b>	11401	59/80R63	2*	E3A	E-3	11,369 / 5,157	89 / 71	158.3 / 4,022	57.8 / 1,467
<b>VREV</b>	12315	53/80R63	2*	E1A	E-4	10,937 / 4,961	139 / 110	150.2 / 3,814	51.6 / 1,311
	12316	53/80R63	2*	E2A	E-4	11,010 / 4,944	139 / 110	150.2 / 3,814	51.6 / 1,311
	12317	53/80R63	2*	E3A	E-4	10,911 / 4,949	139 / 110	150.2 / 3,814	51.6 / 1,311
	1266	59/80R63	2*	E1A	E-4	12,932 / 5,866	148 / 118	158.3 / 4,021	57.8 / 1,467
	1268	59/80R63	2*	E2A	E-4	13,025 / 5,908	148 / 118	158.3 / 4,021	57.8 / 1,467
	4739	59/80R63	2*	E3A	E-4	12,897 / 5,850	148 / 118	158.3 / 4,021	57.8 / 1,467
<b>VRWP</b>	11482	46/90R57	2*	E1A	E-4	8,704 / 3,948	122 / 97	141.5 / 3,595	45.1 / 1,145
	11483	46/90R57	2*	E2A	E-4	8,757 / 3,972	122 / 97	141.5 / 3,595	45.1 / 1,145
	11484	46/90R57	2*	E3A	E-4	8,684 / 3,939	122 / 97	141.5 / 3,595	45.1 / 1,145
<b>VZTB</b>	11396	46/90R57	2*	E1A	E-4	8,251 / 3,743	115 / 91.5	140.9 / 3,580	45.1 / 1,145
	11397	46/90R57	2*	E2A	E-4	8,296 / 3,763	115 / 91.5	140.9 / 3,580	45.1 / 1,145
	11399	46/90R57	2*	E3A	E-4	8,232 / 3,734	115 / 91.5	140.9 / 3,580	45.1 / 1,145

MASTERCORE



Pattern	Article #	Size	Ply/Star Rating	Compound / Construction	TRA / Application	Average Weight (LBS / KG)	OTD (32nds / MM)	Overall Diameter (IN / MM)	Overall Width (IN / MM)
<b>B</b>   <b>VMT</b>	420689	33.00R51	2*	E3A	E-3	4,222 1,915	61 48	117.6 2,988	36.7 932
	427016	40.00R57	2*	E1A	E-3	6,966 3,160	81 64	138.3 3,512	43.6 1,108
	427033	40.00R57	2*	E3A	E-3	7,185 3,259	81 64	138.3 3,512	43.6 1,108
<b>B</b>   <b>VMTP</b>	423084	33.00R51	2*	E1A	E-4	4,940 2,241	113 89.5	120.6 3,063	36.7 932
	423076	33.00R51	2*	E2A	E-4	4,974 2,256	113 89.5	120.6 3,063	36.7 932
	423041	33.00R51	2*	E2A LS	E-4	4,946 2,243	113 89.5	120.6 3,063	36.7 932
	3878	33.00R51	2*	E3A	E-4	4,850 2,200	113 89.5	120.6 3,063	36.7 932
<b>B</b>   <b>VELSL</b>	424587	37.00R57	2*	E3A	E-4	6,095 2,765	97 77	133.4 3,388	41.1 1,044
<b>B</b>   <b>VRLS</b>	276367	36.00R51	2*	E2A	E-4	5,533 2,510	109 86.5	126.1 3,204	40.0 1,015
<b>B</b>   <b>VRPS</b>	3798	33.00R51	2*	E1A	E-4	5,181 2,350	110 87	120.5 3,061	36.7 932
	3795	33.00R51	2*	E2A	E-4	5,181 2,350	110 87	120.5 3,061	36.7 932
	3796	33.00R51	2*	E2A LS	E-4	5,181 2,350	110 87	120.5 3,061	36.7 932
	3797	33.00R51	2*	E3A	E-4	5,181 2,350	110 87	120.5 3,061	36.7 932
	429379	53/80R63	2*	E1A	E-4	10,600 4,808	139 110	150.7 3,828	51.3 1,304
	429396	53/80R63	2*	E2A	E-4	10,600 4,808	139 110	150.7 3,828	51.3 1,304
	429413	53/80R63	2*	E3A	E-4	10,699 4,853	139 110	150.7 3,828	51.3 1,304
<b>B</b>   <b>VZTS</b>	422681	37.00R57	2*	E1A	E-4	6,646 3,015	110 87.5	134.7 3,422	41.1 1,044
	422975	37.00R57	2*	E2A	E-4	6,681 3,030	110 87.5	134.7 3,422	41.1 1,044
	422800	37.00R57	2*	E2A LS	E-4	6,647 3,015	110 87.5	134.7 3,422	41.1 1,044
	422819	37.00R57	2*	E3A	E-4	6,644 3,014	110 87.5	134.7 3,422	41.1 1,044
	422037	40.00R57	2*	E1A	E-4	8,059 3,655	115 91.5	141.1 3,585	44.9 1,140
	422584	40.00R57	2*	E2A	E-4	8,099 3,674	115 91.5	141.1 3,585	44.9 1,140
	421324	40.00R57	2*	E3A	E-4	8,058 3,655	115 91.5	141.1 3,585	44.9 1,140
<b>B</b>   <b>VRDP</b>	425282	42/90R57	2*	E1A	E-4	7,181 3,257	122 97	136.1 3,456	41.7 1,060
	425299	42/90R57	2*	E2A	E-4	7,220 3,257	122 97	136.1 3,456	41.7 1,060
	425333	42/90R57	2*	E3A	E-4	7,181 3,257	122 97	136.1 3,456	41.7 1,060
<b>B</b>   <b>SRG DT</b>	416711	30.00-51	52	STC	E-4	3,594 1,630	87 69	113.0 2,870	33.2 843
	415677	33.00-51	58	STC	E-4	4,565 2,071	93 74	118.3 3,005	36.0 914
	414832	36.00-51	58	STC	E-4	5,374 2,438	104 82.5	128.5 3,264	39.3 998
	424773	40.00-57	76	STC	E-4	7,735 3,509	126 100	142.8 3,627	43.2 1,097

STANDARD

BIAS

# LOADER TIRE LINEUP



HEAT RESISTANCE ←

→ CUT RESISTANCE

TRACTION ↑

ROCK ↓



	Pattern	Article #	Size	Ply/Star Rating	Compound / Construction	TRA / Application	Average Weight (LBS / KG)	OTD (32nds / MM)	Overall Diameter (IN / MM)	Overall Width (IN / MM)
RADIAL	VSNL	429855	45/65R45	2*	D2A	L-4	4,825 2,189	95 75	107.5 2,730	44.2 1,123
	VSDL	419036	45/65R45	2*	D2A DAL	L-5	5,492 2,491	141 111.5	107.5 2,730	44.2 1,123
		426047	45/65R45	2*	D2A DAL	L-5	5,492 2,491	141 111.5	107.5 2,730	44.2 1,123
		422843	45/65R45	2*	D2A; AC	L-5	5,484 2,487	141 111.5	107.5 2,730	44.2 1,123
		428053	50/65R51	2*	D2A	L-5	7,992 3,625	161 128	120.9 3,070	50.3 1,278
		422568	55.5/80R57	2*	D2A	L-5	13,544 6,143	158 125.5	147.2 3,740	54.9 1,395
		430229	60/80R57	2*	D2A	L-5	15,200 6,895	149 118	155.6 3,952	58.7 1,491
BIAS	STMS	422657	45/65-45	58	D2V	L5S	6,681 3,030	146 116	107.5 2,731	45.1 1,146
	Duraload DT	431691	45/65-45	58	STC NY	L-4	5,081 2,305	76 60	109.3 2,766	45.6 1,158
		431708	45/65-45	58	STC NS	L-4	5,387 2,444	76 60	109.3 2,766	45.6 1,158
	SRG DT LD	421456	50/80-57+	68	STC	L-4	9,470 4,296	126 100	142.9 3,630	51.1 1,298
		424501	58/85-57	84	STC	L-4	10,686 4,847	116 92	154.0 3,912	56.3 1,430
		988	70/70-57	84	STC	L-4	14,870 6,745	116 92	157.2 3,993	67.0 1,702
	SDT LD	420468	53.5/85-57+	76	STC	L-5	11,629 5,275	153 121.5	151.9 3,858	53.9 1,369
	Duraload PT	468	45/65-45	58	STC NY	L-5S	6,228 2,825	133 106	109.0 2,769	45.6 1,158
		469	45/65-45	58	STC NS	L-5S	6,470 2,935	133 106	109.0 2,769	45.6 1,158
	HTLD	280255	65/45-45	50	STC	L5/L5S	5,366 2,434	150 119	108.1 2,746	43.1 1,095

# iTRACKII SPECIALIZED FEATURES



Bridgestone's Subscription-Based Next Generation Mining Monitoring System iTrackII Delivers Real-Time Tire and Vehicle Analytics.

## ACCELEROMETER DATA

- Avoids downtime from excessive sidewall lateral force induced damage
- Analyzes operator performance (*braking / acceleration / cornering*)
- Evaluates mine-site's road camber, corner speeds and overall efficiency



## GEOFENCING

- Analyzes and control time spent in specific zones (*Truck Idle Time*)
- Helps prevent over-speeding in corners and slopes to reduce tire stress



## TMS ALERTS

- Early detection of pressure leaks
- Helps prevent tires from carrying dual load by detecting flat damage
- Adequately manages slow leaks with regular top-ups until planned maintenance



## SCHEDULED MAINTENANCE

- Helps reduce maintenance downtime by reducing manual pressure checks
- Prioritizes truck maintenance based on severity of services



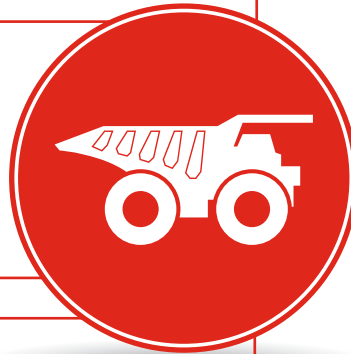
## HELPS MINIMIZE MECHANICAL FAILURES

- Use of tire data to determine additional truck issues:
  - Suspension strut failure
  - dragging brakes - create excess chamber heat
  - Exhaust misalignment - adding unwanted heat to the tires
  - Load distribution - pressure compensation (*front / rear balance*)



## HELPS AVOID HEAT RELATED STOPPAGES

- Heat Maps - Switch trucks to cooler routes
- Elimination of thermal separations
- Replaces TKPH monitoring with live 24/7 temperature data
- Delta between TKPH limits and live temperature = increase in production





# BRIDGESTONE OFF-THE-ROAD SOLUTIONS

## Intelligent Products

The Bridgestone OTR intelligent product lineup offers reliable performance that our customers expect and the productivity it takes to meet their current and emerging needs.



## Integrated Technologies

Bridgestone OTR offers integrated technology that turns your tires into real-time data sources, increasing fleet production while reducing your overall cost per mile.



iTrackII 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.



Designed to integrate fully with iTrackII, the TreadStat™ tire and rim management solution enables you to make real-time decisions and share data instantly, to anywhere in the world.

## Best-In-Class Service

We know that the best products and technologies only stay the best when paired with best-in-class service. Our extensive dealer network, comprehensive training programs, and highly-qualified field engineers help improve tire performance and reduce equipment downtime, so our off-the-road customers can focus on getting the job done.

