

## **G**ENERAL INFORMATION

## **R**ADIAL TIRE

## **B**IAS TIRE

### **IMPORTANT NOTICE**

This catalogue contains brief pattern descriptions and size ranges for Bridgestone brand tires. As the descriptions in this catalogue are brief and all tires are not necessarily suited to all markets, please consult with our sales representatives or distributors before ordering new products. We look forward to assisting you so that your customers can get the most out of our high-quality products. \*\*Due to constant advances in tire technology, the contents of this catalogue are subject to change without prior notice.

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### Introduction

■ Since the 1950's, Bridgestone Corporation has been manufacturing superior quality Off-The-Road tires for mining and heavy-duty construction projects. During these six decades, Bridgestone has become a household word in the mining and construction industry, earning a reputation as a maker of tough, long-lasting, high-performance tires. Furthermore, Bridgestone Off-The-Road tires are backed up by a technical and customer service network that is unmatched around the world. Bridgestone offers a tire for every job, for every condition. Our products feature the latest advances in radial tire technology. Our Off-The-Road radial tires enable you to tackle the toughest of construction or mining projects. Whether your work requires conventional bias tires or the finest in durable radials. Bridgestone is equipped to meet your needs. Bridgestone, widely acknowledged as a world leader in the manufacture of Off-The-Road tires, stands for quality: quality design, quality products, quality service. 
Let Bridgestone serve you!

# **p2** р5

p29

## **GENERAL INFORMATION**

### **CLASSIFICATION**

#### **Uses and Characteristics of Off-The-Road Tires**

The characteristics that Off-The-Road tires must possess differ according to their function and the type of vehicles they are mounted on.

Type/Service	Vehicles	FRA CODI	E Radial	Bias
	Figid dump trucks	E-2	VUT VKT VSB VFT VHS VSW	
	Articulated dump trucks	E-3	VLT VMT VRL VRF	RL VL2
Earthmover	Coal haulers	E-4	L317 VLTS VSNT VMTS VMTP VZTS VZTP VELS VRLS VREP VRPS VREV VRQP	
	O O O O O O O O O O O O O O O O O O O	E-7	VSJ	
		G-2	VUT VSW	FG
Grader	6-300	G-3	VJT	RL
	Graders	G-4	VMTS	
		L-2	VUT VSW	FG
		L-3	VLT VJT VTS	RL VL2
Loader and Dozer	Loaders, Bulldozers	L-4	VLTS VSNT VSNL	RLS
		L-5	VSDT VSDL VSDR	DL
		L-5S	VSMS VSMS2	STMS
	elà	C-1		RR
Compactor	Tire-rollers	C-2		AL2
Logging	Log-skidders	LS-2	VSB	
Mobile Crane	All-Terrain Cranes	Mobile Crane Service	VHS VSW	
Industrial	Handling & Towing Equipments	Industrial Service	VHB VCH VCHR VCHS VRLS VSDL VSMS	RL RLS ELS2 STMS YS2
Underground	LHDs	Under- ground Service	VSNL VSNT VSDL VSDR VSDT VSMS VSMS2	STMS DL

### **LOAD INDEX**

The LOAD INDEX is an international numerical code for indicated by its speed symbol under service conditions

LI	kg	LI	kg	LI	kg	LI	kg	LI	kg	LI	kg
0 1 2 3 4 5 6 7 8 9	45 46.2 47.5 48.7 50 51.5 53 54.5 56 58	50 51 52 53 54 55 56 57 58 59	190 195 200 206 212 218 224 230 236 243	100 101 102 103 104 105 106 107 108 109	800 825 850 875 900 925 950 975 1 000 1 030	150 151 152 153 154 155 156 157 158 159	3 350 3 450 3 550 3 650 3 750 3 875 4 000 4 125 4 250 4 375	200 201 202 203 204 205 206 207 208 209	14 000 14 500 15 000 15 500 16 000 16 500 17 000 17 500 18 000 18 500	250 251 252 253 254 255 256 257 258 259	60 000 61 500 63 000 65 000 67 000 69 000 71 000 73 000 75 000 77 500
10 11 12 13 14 15 16 17 18 19	60 61.5 63 65 67 69 71 73 75 77.5	60 61 62 63 64 65 66 67 68 69	250 257 265 272 280 290 300 307 315 325	103 110 111 112 113 114 115 116 117 118 119	1 060 1 090 1 120 1 150 1 180 1 215 1 250 1 285 1 320 1 360	160 161 162 163 164 165 166 167 168 169	4 500 4 625 4 750 4 875 5 000 5 150 5 300 5 450 5 600 5 800	210 211 212 213 214 215 216 217 218 219	19 000 19 500 20 000 20 600 21 200 21 800 22 400 23 000 23 600 24 300	260 261 262 263 264 265 266 267 268 269	80 000 82 500 85 000 87 500 90 000 92 500 95 000 97 500 100 000 103 000
20 21 22 23 24 25 26 27 28 29	80 82.5 85 90 92.5 95 97 100 103	70 71 72 73 74 75 76 77 78 79	335 345 365 365 375 387 400 412 425 437	120 121 122 123 124 125 126 127 128 129	1 400 1 450 1 500 1 550 1 600 1 650 1 700 1 750 1 800 1 850	170 171 172 173 174 175 176 177 178 179	6 000 6 150 6 300 6 500 6 700 6 900 7 100 7 300 7 500 7 750	220 221 222 223 224 225 226 227 228 229	25 000 25 750 26 500 27 250 28 000 29 000 30 000 30 750 31 500 32 500	270 271 272 273 274 275 276 277 278 279	106 000 109 000 112 000 115 000 118 000 121 000 125 000 128 000 132 500 136 000
30 31 32 33 34 35 36 37 38 39	106 109 112 115 118 121 125 128 132 136	80 81 82 83 84 85 86 87 88 89	450 462 475 487 500 515 530 545 560 580	130 131 132 133 134 135 136 137 138 139	1 900 1 950 2 000 2 060 2 120 2 180 2 240 2 300 2 360 2 430	180 181 182 183 184 185 186 187 188 189	8 000 8 250 8 500 9 750 9 250 9 500 9 750 10 000 10 300	230 231 232 233 234 235 236 237 238 239	33 500 34 500 35 500 36 500 37 500 38 750 40 000 41 250 42 500 43 750		
40 41 42 43 44 45 46 47 48 49	140 145 150 155 160 165 170 175 180 185	90 91 92 93 94 95 96 97 98 99	600 615 630 650 670 690 710 730 750 775	140 141 142 143 144 145 146 147 148 149	2 500 2 575 2 650 2 725 2 800 2 900 3 000 3 075 3 150 3 250	190 191 192 193 194 195 196 197 198 199	10 600 10 900 11 200 11 500 11 800 12 150 12 500 12 850 13 200 13 600	240 241 242 243 244 245 246 247 248 249	45 000 46 250 47 500 48 750 50 000 51 500 53 000 54 500 56 000 58 000		

for the maximum load a tire can carry at the speed	
s specified by Bridgestone.	

### **SPEED SYMBOL**

The SPEED SYMBOL indicates the speed at which the tire can carry a load corresponding to its load index under service conditions specified by Bridgestone.

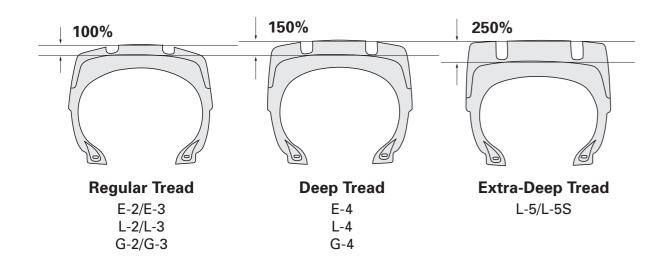
Speed Symbol	Speed (km/h)
A1	5
A2	10
A3	15
A4	20
A5	25
A6	30
A7	35
A8	40

Speed Symbol	Speed (km/h)
В	50
С	60
D	65
E	70
F	80
G	90



- Earthmover Service
- Sand Service.....
- Grader Service .....
- Loader and Dozer Set
- Mobile Crane Service
- Industrial Service.....

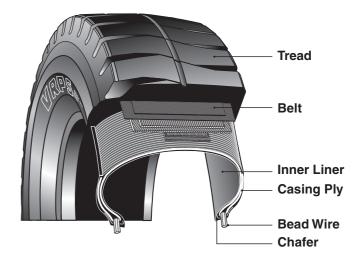
### **COMPARISON OF TREAD DEPTH**



### **TIRE COMPONENTS**

#### **BREAKDOWN OF OFF-THE-ROAD RADIAL TIRES**

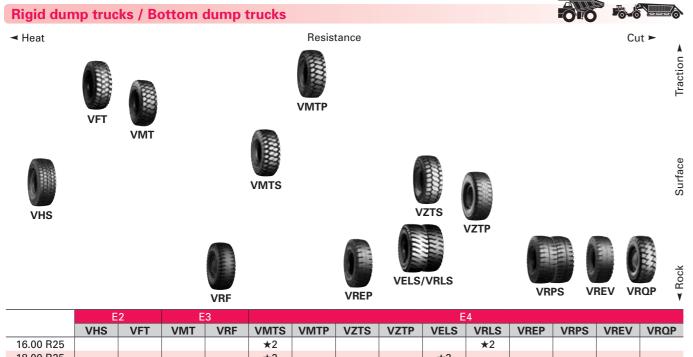
This figure shows the basic construction of Bridgestone Off-The-Road radial tires. This type of radial tire in any pattern consists of a casing, tough bead wires and belts, and is designed for maximum performance. Note that the internal construction, thickness of rubber, etc., of radial tires are different depending on the size, pattern and star rating of the tire.



### **OFF-THE-ROAD**

ervice20	
<i>e</i> 24	
25	

#### EARTHMOVER SERVICE > P10-17

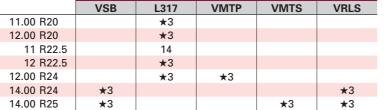


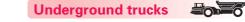
16.00 R25					★2					★2				
18.00 R25					★2				★2					
18.00 R33						★2			★2					<b>*</b> 2
21.00 R33						★2				★2				
21.00 R35						★2			★2					
24.00 R35						★2				★2				★2
24.00 R49														
27.00 R49		★2			★2	★2					★2			
31/90 R49														
30.00 R51			★2							★2				
33.00 R51			★2			★2						*2		
36.00 R51	★2									*2				
37.00 R57							★2			★2				
42/90 R57												*2		
40.00 R57			★2				★2		★2			*2		
46/90 R57								★2				★2	★2	
50/90 R57												*2		
53/80 R63												★2		
59/80 R63				★2								★2		



	E3	E4
	VLT	VLTS
20.5 R25	MS	MS
23.5 R25	MS	MS
750/65 R25	MS	★2
26.5 R25	MS	★2
29.5 R25	MS ★2	★2
875/65 R29		MS







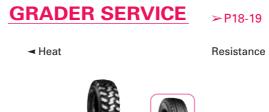


	E4
	VSNT
26.5 R25	MS
29.5 R25	MS
29.5 R29	MS
35/65 R33	MT





	E7
	VSJ
16.00 R20	0
21.00 R25	0





	G	G3	
	VUT	VSW	VJT
13.00 R24TG	<b>*</b> 1		
14.00 R24TG	<b>★</b> 1	<b>*</b> 1 <b>*</b> 3	
16.00 R24TG		*1	
15.5 R25	<b>★</b> 1 <b>★</b> 2		
17.5 R25	<b>*</b> 1	*1	
20.5 R25	<b>*</b> 1		<b>*</b> 1
23.5 R25	<b>★</b> 1		<b>*</b> 1

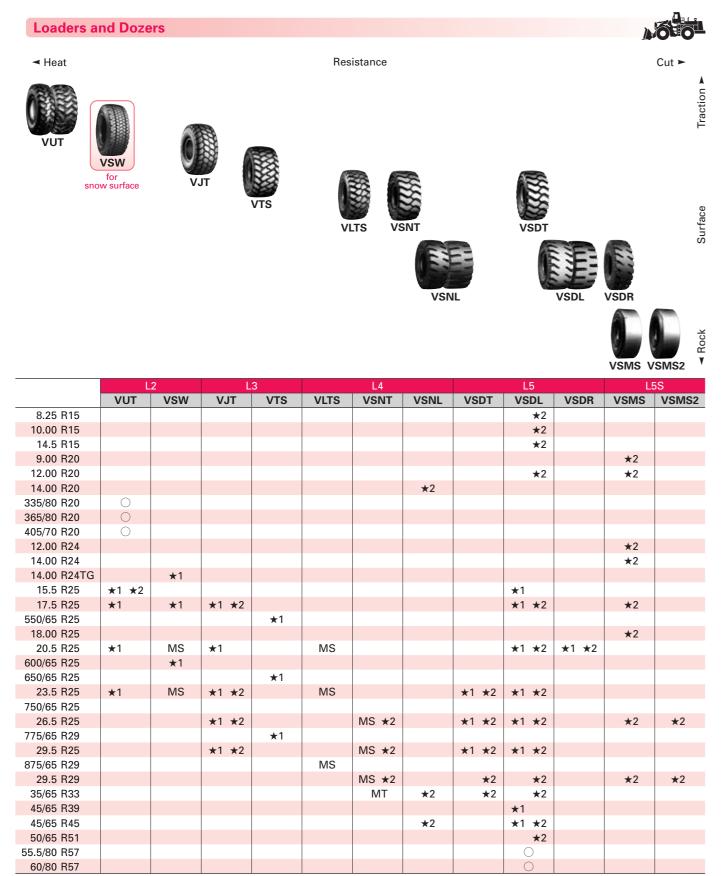
\* MS = Multiple Star Rating ( $\star$ 1/ $\star$ 2)

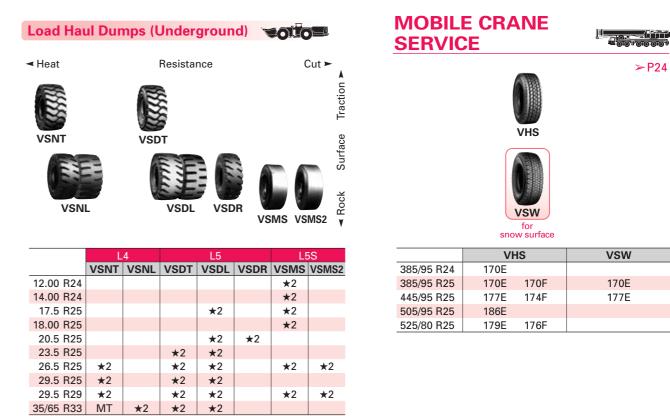
6 Bridgestone Radial Tires marked with "LOADER AND DOZER ★(one star)" and "EARTHMOVER ★★(two star)" have specified load capacity on each servicing condition.

Scrapers			
< Heat	Resistance		Cut ►
			Surface Traction ►
VKT			Surface
	VLT		▲ Rock
		VRL	¥
	E2	E	3
	VKT	VLT	VRL
29.5 R29	★2		
33.25 R29		★2	
29.5 R35			★2
33.25 R35			★2
37.25 R35		★2	
37.5 R39	★2		
40.5/75 R39		★2	



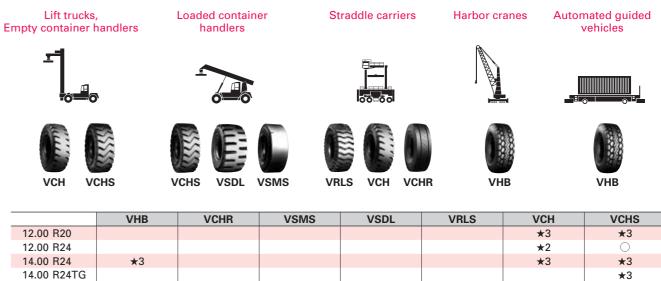
#### LOADER AND DOZER SERVICE >P20-23





	L	.4		L5		Lt	5S
	VSNT	VSNL	VSDT	VSDL	VSDR	VSMS	VSMS
12.00 R24						★2	
14.00 R24						★2	
17.5 R25				★2		★2	
18.00 R25						★2	
20.5 R25				★2	★2		
23.5 R25			★2	★2			
26.5 R25	★2		★2	★2		★2	*2
29.5 R25	★2		★2	★2			
29.5 R29	★2		★2	★2		★2	*2
35/65 R33	MT	★2	★2	★2			

#### **INDUSTRIAL SERVICE** > P25-27



★2

**★**2

**\***2

**★**2

12.00 R24			
14.00 R24	★3		
14.00 R24TG			
16.00 R25	★2	0	
18.00 R25	★3		
23.5 R25			
18.00 R33			
35/65 R33			

\* MS = Multiple Star Rating ( $\star$ 1/ $\star$ 2)

\* MT = Multiple Star Rating ( $\star 2/\star 4$ )

Bridgestone Radial Tires marked with "LOADER AND DOZER \*(one star)" and "EARTHMOVER \*\*(two star)" have specified load capacity on each servicing condition.

★3

★3

#### Earthmover Service > ······





Minimum heat build-up enables high-speed operation for coal and bauxite hauling. Reducing irregular wear means a longer tread life. Suitable for rigid or bottom-type coal haulers in high TKPH operations.



610



Provides good traction, generates low heat and assures long tread life on soft, muddy or packed surfaces.



Normal-depth tread with a nondirectional traction pattern, featuring strong resistance to heat buildup. Most suitable for hauling equipment used in coal mines, and equally applicable to operations on soft or muddy surfaces.

Type Star Rating

★2

★2

★2



**/RF** V-STEEL ROCK FAST E-3



VRF has great wear and cut resistance and has a long tread life as an E-3 premium pattern. Recommended especially for giant-size rigid dump trucks used in high-speed operations.



Non-directional deep tread pattern for strong traction, especially resistant to side-slipping. High wear resistance ensures long tread life. Applicable for muddy or soft surfaces.

Size	Type Star Rating	Size	Type \$	Star Rating		Size	Type Sta
36.00 R51	T/L ★2	27.00 R49	T/L	★2		30.00 R51	T/L
						33.00 R51	T/L
						40.00 R57	T/L
					1		

Size		Type S	Star Rating
59/80	R63	T/L	★2
55/00	1105	1/L	×2

Size		Type Star Rating		
14.00	R25	T/L	★3	
16.00	R25	T/L	★2	
18.00	R25	T/L	★2	
27.00	R49	T/L	★2	

#### OFF-THE-ROAD RADIAL TIRES









Non-directional extra-deep tread corresponding to E4.5 ensures long tread life and offers superior traction, especially on muddy surfaces.

Size	Size		Star Rating
12.00	R24	T/T	★3
18.00	R33	T/L	★2
21.00	R33	T/L	★2
21.00	R35	T/L	★2
24.00	R35	T/L	★2
27.00	R49	T/L	★2
33.00	R51	T/L	★2

#### Earthmover Service > ······





Deep tread pattern with sidewall protectors. Specifically designed for giant dump trucks. Non-directional deep tread pattern ensures excellent traction and strong resistance to side-slipping as well as long life and cut resistance on rocky surfaces.

Size

37.00 R57

40.00 R57

Type Star Rating

★2

**★**2

T/L

T/L

V-STEEL Z-TRACTION PREMIUM E-4

-010



Extra-deep tread pattern with sidewall protectors. VZTP focuses especially on traction, extra-long tread life and superior cut resistance. Narrow center tread grooves, which reduce tread block movement and help with heat dissipation, along with wider side lugs, achieves the perfect balance of opposing performance targets: traction, tread life, and heat resistance. VZTP can be the best solution for large, rigid dump trucks working on muddy surfaces.

46/90 R57 T/L ★2

Type Star Rating

Size

V-STEEL E-LUG S E-4

610

Deep tread pattern with sidewall protectors. Suited for abrasive roads, such as rocky, gravel or packed surfaces. High resistance to cutting, chipping and shock damage.

	Size		Туре	Star Ra
	18.00	R25	T/L	*2
	18.00	R33	T/L	*2
	21.00	R35	T/L	*2
	40.00	R57	T/L	★2

ting



VR **V-STEEL R-LUG S** E-4



21.00R33~ 14.00R24~ 37.00R57 16.00R25

Rock-deep tread with tough lug and sidewall protectors. High resistance to cutting and chipping for long tread life. Specially designed for dump trucks engaged in earthmoving.



610



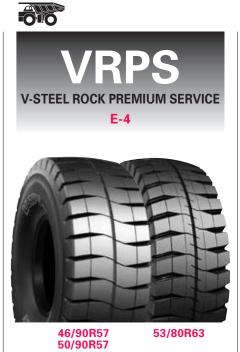
Without sacrificing wear resistance compared to the current standard pattern, VREP minimizes heat generation and achieves the highest TKPH among current E-4 rock patterns. This makes it suitable for giant rigid dump trucks running at high speeds which can cause extreme heat buildup inside the tire.

	Туре	Star Rating
R24	T/T	★3
R25	T/L	★3
R25	T/L	★2
<b>D</b> 22	T/L	★2
R33	T/T	★2
R35	T/L	★2
R51	T/L	★2
R51	T/L	★2
R57	T/L	★2
	R25 R25 R33 R35 R51 R51	R24         T/T           R25         T/L           R25         T/L           R33         T/L           T/T         T/T           R35         T/L           R51         T/L

Size 27.00 R49

#### OFF-THE-ROAD RADIAL TIRES





With a special tread pattern and optimal tire rigidity, VRPS tires boost longer tread life and great resistance to wear and tear, so they are recommended especially for the mine require extra protection against wear, cuts and penetration.

Туре	Star Rating
T/L	★2

Size		Type S	Star Rating
33.00	R51	T/L	★2
42/90	R57	T/L	★2
40.00	R57	T/L	★2
46/90	R57	T/L	★2
50/90	R57	T/L	★2
53/80	R63	T/L	★2
59/80	R63	T/L	★2

#### Earthmover Service > ······





New pattern technologies achieve improved wear resistance and superior heat capability at higher level than ever.

VREV is recommended especially for the mine requires extra protection against wear, cuts and penetration.



-010

Extra-thick tread pattern VRQP assures longer tread life and superior cut resistance. Greatly reduces total tire costs for replacement. Specially developed for mid-size rigid dump trucks working in quarries and other tough operations.







Suitable for wet, soft or muddy surfaces with excellent maneuverability, traction and flotation.



VLTS V-STEEL L-TRACTION S E-4



Offers outstanding cut resistance and long tread life on rocky or gravel surfaces in mining, quarry and construction, with superior traction.



Ideal for soft or muddy surfaces, offering good traction and flotation.

	Size		Type S	Star Rating
New	46/90	R57	T/L	★2

				.	
Size		Type S	Star Rating		
18.00	R33	T/L	★2		17
24.00	R35	T/L	★2		18
					195
					19
					19
					202
					20
					208

	Size		Type S	Star Rating
177B	20.5	R25	T/L	MS
185B	22 F	DOF	T/L	MS
195A2	23.5	R25	I/L	1013
190B	750/65	R25	T/L	MS
	(30/65	R25)		
193B	26 F	DOF	T/L	MS
202A2	20.5	R25	I/L	1013
200B	20 F	DOF	T/L -	★2
208A2	29.5	R25	1/L -	MS

	Size		Type S	Star Rating
177B	20.5	R25	T/L	MS
185B	23.5	R25	T/L	MS
190B	750/65	R25	T/L	★2
	(30/65	R25)		
193B	26.5	R25	T/L	★2
200B	29.5	R25	T/L	★2
203B	875/65	R29	T/L	MS

Size		Туре	Star Rating
29.5	R29	T/L	★2
37.5	R39	T/L	★2

#### OFF-THE-ROAD RADIAL TIRES





Wide and self-cleaning tread pattern offers excellent maneuverability, traction and floatation on soft or muddy surfaces.

Size		Туре	Star Rating
33.25	R29	T/L	★2
37.25	R35	T/L	★2
40.5/75	R39	T/L	★2

#### Earthmover Service > ------



Tough lug-pattern VRL features excellent traction as well as good resistance to cutting and casing fatigue. Suitable for scrapers on rocky surfaces.



VSB exhibits excellent traction and maneuverability. Suitable for both gravel and hard packed surfaces like paved roads. Designed for heavy-duty trucks and trailers.



L317

This tire's features are extra-long life, superior cut resistance and excellent traction. The casing is reinforced by  $\star 3$  for heavy-duty mining trucks in cyclical operation.





Unique non-directional traction pattern VSNT provides optimum traction without compromising tread life. The wide tread is our concept to minimize sidewall cuts. Applicable for underground trucks in underground mines.

Size Type Star Rati	ng
29.5 R35 T/L ★2	
33.25 R35 T/L ★2	

Size		Type S	Star Rating	Si
14.00	R24	T/T	★3	11.
14.00	R25	T/L	★3	12.
				12.

Size		Туре	Star Rating
11.00	R20	T/T	★3
12.00	R20	T/T	★3
11	R22.5	T/L	14
12	R22.5	T/L	★3
12.00	R24	T/T	★3

	Size		Туре	Star Rating
	26.5	R25	T/L	MS
	29.5	R25	T/L	MS
	29.5	R29	T/L	MS
225A8	35/65	R33	T/L	MT

#### OFF-THE-ROAD RADIAL TIRES

#### Sand Service ➤ ······



The unique tread design ensures maximum flotation and traction. VSJ is designed with a steel radial construction for operating on desert or soft ground, as well as paved roads.

Size	Type F	ly Rating
10.00 000	T/L	28
16.00 R20	T/T	28
21.00 R25	T/L	

#### Grader Service ➤·······



Non-directional pattern VUT features superior traction and excellent self-cleaning. Lighter weight provides superior maneuverability and fuel consumption. V-STEEL SNOW WEDGE G-2

6-1-00



VSW is the first of its kind in snow radials, especially developed for machines used in snow removal work. This tire has excellent traction from a standing start and during acceleration as well as superior cornering and braking performance, especially on icy, packed or soft snow surfaces. VSW provides allseason service, requiring no replacement during summer and offers exceptional ability to be retreaded.

**V-STEEL J-TRACTION** 

G-3

6-1-1-0

Next-generation pattern reduces vibrations, and achieves higher riding comfort plus VMT's long-standing grip and long tread life. VJT is suitable for construction and general duties.

### 6-3-00

V-STEEL M-TRACTION S G-4



Non-directional deep tread pattern offers superior traction and extralong tread life. Designed especially for graders in underground mines or quarries.

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Size		Туре	Star Rating
15.5       R25       T/L       ★1 ★2         17.5       R25       T/L       ★1         20.5       R25       T/L       ★1	13.00	R24TG	T/L	<b>★</b> 1
17.5 R25 T/L ★1 20.5 R25 T/L ★1	14.00	R24TG	T/L	<b>★</b> 1
20.5 R25 T/L ★1	15.5	R25	T/L	<b>★</b> 1 <b>★</b> 2
	17.5	R25	T/L	<b>★</b> 1
23.5. B25 T/I ★1	20.5	R25	T/L	<b>★</b> 1
20.0 1120 1/2 41	23.5	R25	T/L	<b>★</b> 1

	Size		Туре	Star Rating
153A8	14.00	DALTO	<b>T</b> /I	<b>★</b> 1
	14.00	R24TG	I/L	★3
	16.00	R24TG	T/L	<b>★</b> 1
153A8	17.5	R25	T/L	<b>★</b> 1

Size	Type S	Star Rating
20.5 R25	T/L	<b>★</b> 1
23.5 R25	T/L	<b>★</b> 1

#### Size Type Star Rating 14.00 R24TG T/L ★1

#### OFF-THE-ROAD RADIAL TIRES

#### Loader and Dozer Service ➤·······



For Compact Loader For Loader 335/80R20~405/70R20 15.5R25~23.5R25

Non-directional pattern VUT features superior traction and excellent self-cleaning. Lighter weight provides superior maneuverability and fuel consumption.



A OLOL

VSW is the first of its kind in snow radials, especially developed for machines used in snow removal work. This tire has excellent traction from a standing start and during acceleration as well as superior cornering and braking performance, especially on icy, packed or soft snow surfaces. VSW provides allseason service, requiring no replacement during summer and offers exceptional ability to be retreaded. VJT V-STEEL J-TRACTION L-3

A OLOI



Next-generation pattern reduces vibrations, and achieves higher riding comfort plus VMT's long-standing grip and long tread life. VJT is suitable for construction and general duties.

### NOLOI

VTS V-STEEL TRACTION-STABILITY



New generation VTS tire offers exceptional stability, superior riding comfort, optimum traction and reduced cost per performance than the 80 series of the same tread class. Designed primarily for wheeled loaders as the preferred line.



Offers best cut resistance and long tread life with superior traction on rocky or gravel surfaces in mines, quarries and construction sites.

Size		Type Star Rating	
147A2 335/80	R20	T/L	
153A2 365/80	R20	T/L	
155A2 405/70	R20	T/L	
15.5	R25	T/L	<b>*</b> 1 <b>*</b> 2
17.5	R25	T/L	<b>★</b> 1
20.5	R25	T/L	<b>*</b> 1
23.5	R25	T/L	<b>★</b> 1

	Size		Туре	Star Rating
175A2	14.00	R24TG	T/L	<b>★</b> 1
176A2	17.5	R25	T/L	<b>★</b> 1
	20.5	R25	T/L	MS
	23.5	R25	T/L	MS
187A2	600/65	R25	T/L	<b>★</b> 1

	Size		Type S	Star Rating	
176A2	17 5	Dar	<b>T</b> /I	<b>★</b> 1	
182A2	17.5	KZ5	T/L -	★2	
186A2	20.5	R25	T/L	<b>★</b> 1	
195A2	00.5	DOF	т//	<b>★</b> 1	
201A2	23.5	RZ9	T/L ·	★2	
202A2	26 F	DDE	T/L -	<b>★</b> 1	
209A2	26.5	n25	nzo	I/L	★2
208A2	29.5	DDE	T/L -	<b>★</b> 1	
216A2	29.5	1123	I/L	★2	

Size	Type Star Ratin	
550/65 R	25 T/L	<b>*</b> 1
650/65 R	25 T/L	<b>★</b> 1
775/65 R	29 T/L	<b>*</b> 1

Size		Type Star Ratin		
186A2	20.5	R25	T/L	MS
195A2	23.5	R25	T/L	MS
214A2 8	375/65	R29	T/L	MS

#### OFF-THE-ROAD RADIAL TIRES





Unique non-directional traction pattern VSNT can provide optimum traction without compromising tread life. The wide tread is our concept to minimize sidewall cuts. Applicable for wheeled loaders operating in quarries or mining for load and carry operations with sure longitudinal traction.

	Size		Туре	Star Rating		
	00 5		MS			
	20.5	R25	T/L	★2		
	20 F	DOF	т/	MS		
	29.5	R25	T/L	★2		
	00 5 1	20 F	29.5 R2	<b>D</b> 20	<b>T</b> //	MS
	29.5	n29	T/L	★2		
225A8 3	35/65	R33	T/L	MT		

#### Loader and Dozer Service > .....



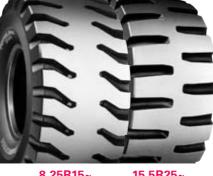
14.00R20 35/65R33 45/65R45

Rock pattern design offers outstanding traction, stability and comfort. Sidewall protection reduces cuts and other damage. Primarily designed for underground mining, they are also suitable for load and carry operations in open pits and quarries.



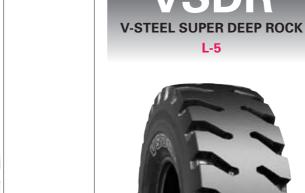
Extra-deep tread for excellent traction, comfortable ride, superior cut resistance and long tread life. The wide tread is our concept to minimize sidewall cuts. For use in underground mines, open pits and quarries.

**V-STEEL D-LUG** L-5



8.25R15~ 15.5R25~ 12.00R20 60/80R57

Extra-deep tread designed for severe or rocky surfaces, offering excellent traction, stability and a comfortable ride. Specially designed sidewall provides extended protection from cutting. For use in underground mines, open pits and quarries.





Extra super deep tread designed for severe or rocky surfaces, offering excellent traction, stability and a comfortable ride. Specially designed sidewall provides extended protection from cutting. For use in underground mines, open pits and quarries.



Specially compounded, smooth, extra-deep tread rubber ensures maximum resistance to cutting and wearing. Designed for operating over severe rocky surfaces, in underground mines, open pits and quarries.

Size	Type Star Rating
14.00 R20	T/T ★2
35/65 R33	B T/L ★2
45/65 R45	5 T/L ★2

Size		Type S	Star Rating
22 E	DDE	т/і	<b>★</b> 1
23.5	nzo	I/L	★2
26 F	DDE	т/і	<b>★</b> 1
26.5	n25	I/L	★2
20 5	D25	т/і	<b>★</b> 1
29.5	N25	1/L	★2
29.5	R29	T/L	★2
35/65	R33	T/L	★2
	23.5 26.5 29.5 29.5	23.5 R25 26.5 R25 29.5 R25 29.5 R29	23.5     R25     T/L       26.5     R25     T/L       29.5     R25     T/L       29.5     R29     T/L

Size		Туре	Star Rating
8.25	R15	T/T	★2
10.00	R15	T/T	★2
14.5	R15	T/L	★2
12.00	R20	T/T	★2
15.5	R25	T/L	<b>*</b> 1
17.5	R25	T/L	<b>★</b> 1 <b>★</b> 2
20.5	R25	T/L	<b>★</b> 1 <b>★</b> 2
23.5	R25	T/L	<b>*</b> 1 <b>*</b> 2
26.5	R25	T/L	<b>*</b> 1 <b>*</b> 2
29.5	R25	T/L	<b>*</b> 1 <b>*</b> 2
29.5	R29	T/L	★2
35/65	R33	T/L	★2
45/65	R39	T/L	<b>★</b> 1
45/65	R45	T/L	<b>*</b> 1 <b>*</b> 2
50/65	R51	T/L	★2
55.5/80	R57	T/L	
60/80	R57	T/L	

Size	Type Star Rating	
20.5 R25	T/L ★1 ★2	
	-	

Size		Type Star Rating	
9.00	R20	T/T	★2
12.00	R20	T/T	★2
12.00	R24	T/T	★2
14.00	R24	T/T	★2
17.5	R25	T/L	★2
18.00	R25	T/L	★2
26.5	R25	T/L	★2
29.5	R29	T/L	★2

#### OFF-THE-ROAD RADIAL TIRES



Optimized sidewall shape ensures maximum sidewall cut resistance. VSMS2 boost longer tire life compare to VSMS. Designed for operating over severe rocky surfaces, in underground mines, open pits and quarries.

	Size	Type S	Star Rating
New	26.5 R25	T/L	★2
New	29.5 R29	T/L	★2

#### Mobile Crane Service (High-Speed) ➤ ······

VHS V-STEEL HIGHWAY SERVICE



Newly developed technology assures excellent performance, especially for mobile crane service (on-road conditions). New tread rubber achieves extra-long life and ideal tread pattern (closed shoulder, variable pitches) reduces noise level. Suitable for all-terrain cranes.

	Size		Туре
170E	385/95	R24	T/T
170E	205/05	DOF	エル
170F	385/95	nzo	T/L
177E		DOF	<b>T</b> /I
174F	445/95	K25	T/L
186E	505/95	R25	T/L
179E	F0F/00	DOF	τ/
176F	525/80	K25	T/L

V-STEEL SNOW WEDGE



VSW is the first of its kind in snow radials, especially developed for machines used in snow removal work. This tire has excellent traction from a standing start and during acceleration as well as superior cornering and braking performance, especially on icy, packed or soft snow surfaces. VSW provides allseason service, requiring no replacement during summer and offers exceptional ability to be retreaded.

	Size		Туре
170E	385/95	R25	T/L
177E	445/95	R25	T/L

## VHB V-STEEL H-BLOCK



Industrial Service > ------



Features exceptional casing durability. Specially designed for mobile harbor cranes and towing tractors.

Smooth extra-deep tread with a reinforced all-steel radial casing. For container handling equipment especially on abrasive concrete surfaces.

Size		Туре	Star Rat
14.00	R24	T/T	★3
16.00	R25	T/L	★2
18.00	R25	T/L	★3

Size		
18.00	R25	

ting

\* DOT approved

#### OFF-THE-ROAD RADIAL TIRES





Extra-deep tread with a reinforced all-steel radial casing for heavy reach stackers.

Type	Star Rating
ishe	Star hating
<b>T</b> /I	12
I/L	<b>X</b> Z

	Size		Туре	Star Rating
	23.5	R25	T/L	★2
3	5/65	R33	T/L	★2

#### Industrial Service > .....





Designed for container handling equipment, such as straddle carriers.

Features great resistance to heat build-up for high speed operations.



뇌



Features extra-long life, thanks to newly developed tread compound and smooth wear due to optimized contact pressure. Specially designed for container handling equipment, such as straddle carriers, container stackers, etc.



CHS

V-STEEL CONTAINER HANDLER SS

Newly developed all-steel radial casings improve operational stability and safety. The unique pattern is designed for longer tread life by preventing irregular wearing. Specially designed for container handling equipment, such as container stackers.

# VCHR V-STEEL CONTAINER HANDLER RIB



Exceptionally long tread life, superior driving comfort and enhanced overall operating efficacy. Specially developed for straddle carrier operation.

 Size
 Type Star Rating

 16.00 R25
 T/L
 ★2

Size	Type Sta	r Rating
12.00 R20	T/T	★3
12.00 R24	T/T	★2
14.00 R24	T/T	★3

Size		Type S	Star Rating
176A5 12.00	R20	T/T	★3
178A5 12.00	R24*	T/T	
196A5 14.00	R24TG	T/L	★3
196A5 14.00	R24	T/T	★3
214A5 18.00	R25	T/L	★3
219A5 18.00	R33	T/L	★3

\* 12.00 R24 VCHS is compliant with the ETRTO standard of industrial tires.

Size	Type Star Ratin
200A5 16.00 R25	T/L

\* 16.00 R25 VCHR is compliant with the ETRTO standard of industrial tires.

#### OFF-THE-ROAD RADIAL TIRES

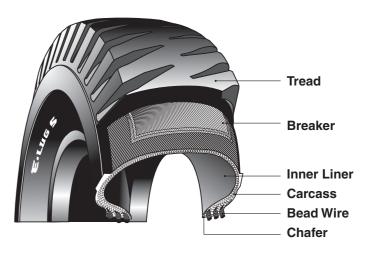
# **BIAS TIRES**

- Earthmover Service.
- Grader Service ......
- Loader and Dozer Se
- Compactor Service...
- Multiple Purpose Ser
- Industrial Service......

### **TIRE COMPONENTS**

#### **BREAKDOWN OF OFF-THE-ROAD BIAS TIRES**

This figure shows the basic construction of the Bridgestone Off-The-Road bias tires. This type of bias tire in any pattern consists of a carcass, tough bead wires, and breakers, and is designed to exhibit maximum performance. Note that the internal construction, thickness of rubber, etc., of bias tires are different depending on the size, pattern and ply rating of the tire.



### **OFF-THE-ROAD**

ervice32	
ervice	
35	





RL's regular tread is designed with a specially compounded rubber to resist cutting and wearing, as well as overheating. Designed for operating on rock, coal and earth surfaces.

VL2
V-LUG2
E-3

VL2 has incorporated all the benefits of RL, while increasing durability and lowering vibrations.

Size	Туре	Ply Rating
10.00-20	T/T	14
11.00-20	T/T	14
12.00-20	T/T	18
12.00-24	T/T	20
14.00-24	T/T	24 28
16.00-25	T/L	28
18.00-25	T/L	32
37.25-35	T/L	36

20.5-25         T/L         16 20           23.5-25         T/L         16 20 24           T/T         16 20 24
23.5-25
26.5-25 T/L 20 24 26
29.5-25 T/L 22 28

Grader Service ➤ ······







FG's separate lugs are tapered for greater traction and self-cleaning, resulting in better driving on heavy dirt and in mud.



RL's regular tread is designed with a specially compounded rubber to resist cutting and wearing, as well as overheating. Designed for operating on rock, coal and earth surfaces.

Size	Туре	Ply Rating
40.00.04.70	T/L	12
13.00-24 TG	T/T	10
44.00.04.70	T/L	12 14
14.00-24 TG	T/T	12 16
16.00-24 TG	T/T	16
17.5-25	T/L	12
20.5-25	T/L	12
-		

Size 16.00-24 TG T

#### OFF-THE-ROAD BIAS TIRES



γpe	Ply Rating
/T	16

Loader and Dozer Service > ······



FG's separate lugs are tapered for greater traction and self-cleaning, resulting in better driving on heavy dirt and in mud.



RL's regular tread is designed with a specially compounded rubber to resist cutting and wearing, as well as overheating. Designed for operating on rock, coal and earth surfaces.

A OLOI V-LUG2 L-3



VL2 has incorporated all the benefits of RL, while increasing durability and lowering vibrations.

**R-LUG S** L-4



RLS's deep specially compounded rubber resists cutting and overheating. Designed for operating on rock, coal and earth surfaces where serviceability and tread cutting are problems.



DL's extra-deep and specially compounded rubber and shoulder protecting ribs ensure maximum serviceability and resistance to cutting. Designed for severe rocky surfaces, and offers excellent traction and stability.

Size	Туре	Ply Rating
13.00-24 TG	T/L	12
14.00-24 TG	T/L	12
14.00-24 IG	T/T	12
16.9-24	T/T	10
18.4-24	T/T	10
17.5-25	T/L	12
20.5-25	T/L	12
	_	

Size	Туре	Ply Rating	
12.00-24	T/T	20	
16.00-24 T	G T/T	16	
·			

Size	Туре	Ply Rating
15.5-25	T/L	12
17.5-25	T/L	16
17.5-25	T/T	16
00 5 05	T/L	16 20
20.5-25	T/T	16 20
00 5 05	T/L	16 20 24
23.5-25	T/T	16 20 24
26.5-25	T/L	20 24 26
	T/T	24
29.5-25	T/L	22 28

Size	Туре	Ply Rating
14.00-24	T/T	20
26.5-25	T/L	26
29.5-25	T/L	28

Size	Туре	Ply Rating
17.5-25	T/L	16
20.5-25	T/L	16
23.5-25	T/L	20
26.5-25	T/L	20 26
29.5-25	T/L	28
35/65-33	T/L	42
40/65-39	T/L	56
45/65-45	T/L	58
50/65-51	T/L	62
65/65-57	T/L	62

#### OFF-THE-ROAD BIAS TIRES









STMS's smooth, extra-deep, and specially compounded rubber ensures maximum resistance to cutting and wearing. Designed for severe, rocky surfaces, such as those in underground mines, open pits and quarries.

Size	Туре	Ply Rating
12.00-24	T/T	16 20
14.00-24	T/T	20
17.5-25	T/L	20
18.00-25	T/L	24 28 32
26.5-25	T/L	32 36
29.5-29	T/L	34

#### Compactor Service > ·····





RR's smooth tread is specially designed for compacting road materials.



AL2's unique tread pattern offers maximum flotation with minimum resistance to rolling. Ideal for use in the desert and on soft ground.



Multiple Purpose Service

FG's separate lugs are tapered for greater traction and self-cleaning, resulting in better driving on heavy dirt and in mud.



Industrial Service >



RL has a standard tread depth and is applicable to a wide range of industrial type machines, especially the slow wearing type, such as a rubber-tired gantry crane (RTG).



RLS's features are long tread life, thanks to extra-deep tread. Unique rubber compound resists cutting and wearing on smooth surface. Suitable for empty container handlers.

Size	Туре	Ply Rating
12.00-20	T/T	20
14.00-24	T/T	24 28
14.00-24 TG	T/L	24
16.00-25	T/L	28 32
18.00-25	T/L	40
21.00-25	T/L	40
21.00-35	T/L	40

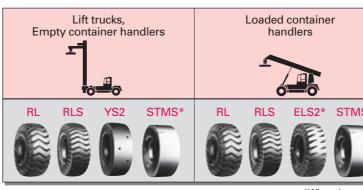
Size	Туре	Ply Rating
16.00-25	T/L	28 32

Size	Туре	Ply Rating
7.50-15	T/T	12
9.5/65-15	T/T	6
7 50 40	T/L	6
7.50-16 -	T/T	6
10.5/80-16	T/L	6
9.00-20	T/T	10
14/70-20	T/T	12

	Size	Туре	Ply Rating
	23.1-26	T/T	8
_			

Size	Туре	Ply Rating
27X8.50-15	T/T	4
33X12.5-15	T/T	8
12.5/70-16	T/L	68
10-16.5	T/L	68
10 10 5	T/L	8 10
12-16.5	T/T	8
15.5/60-18	T/L	8
15.5/70-18	T/L	8
10.00-20	T/T	14
11.00-20	T/T	10 16
42X17-20	T/T	10
17.5/65-20	T/L	10

					1105
IND	US I	KIA	LS	EK	VICE



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#### OFF-THE-ROAD BIAS TIRES





Extra-deep tread corresponding to E4.5 is the main features of ELS2, which ensures longer tread life. Suitable for container handling equipment such as loaded container handlers (reach stackers), notorious for being the most severe conditions for tire wear.

Size	Туре	Ply Rating	
18.00-25	T/L	40	
18.00-33	T/L	36	
21.00-35	T/L	40	

	Straddle carriers	Harbor cranes	Rubber tired gantry cranes
S*	YS2	RL	RL

\*When the average operating speed exceeds 10 km/h, consult your Bridgestone representative.



long tread life and best riding comfort due to extra-deep and smooth tread design. Suitable for empty and loaded container handlers, especially on abrasive concrete surfaces.

Size	Туре	Ply Rating
12.00-24	T/T	20
18.00-25	T/L	40

tance for long serviceability as well as good traction and braking. Wear indicators inserted around the tread's circumference allow for easy measuring of the tread depth from any position. Specially designed for straddle carriers.

Size	Туре	Ply Rating
16.00-25	T/L	32

## **PATTERN DIGEST**



Printed in Japan with vegetable oil ink on recycled paper 140RA02E(Nov.'14)