BOTO

BOTO dealer

Shandong Wanda BOTO Tyre Co.,Ltd.
www.bototyre.com
E-mail:info@bototyre.com

中国万达集团
CHINA WANDA GROUP

BOTO

OTR TYRE
BROCHURE

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BRIEF INTRODUCTION TO

Shandong Wanda BOTO Tyre Co., Ltd.

Located in Shandong Province, China, as a leading subsidiary company of China Wanda Group who is one of Top 500 national industrial enterprises in economic strength, Shandong Wanda BOTO Tyre Co Ltd is a large scale of professional tire production enterprise and China Quality and Credit enterprise mainly involving with development, production and sales of TBR, radial OTR and light truck tires.

Established in 2004 and with registration capital of 400 million yuan, the company owns over 3 billion yuan fixed assets and employs more than 5000 staff and workers. With annual production capacity of 3000,000 unit of TBR and 100,000 unit of radial OTR tires, the company can produce and supply various series and more than 100 sizes and patterns of all steel truck and bus radial tires, all steel radial off-the-road tires and light truck tires.Since its establishment, in accordance with its concept of " Dedication Makes Expertise"and through reinforcement of quality system

control and carrying out its strategy of invigorating enterprise by building brand name , the company has made sustainable and healthy development and became a modern and large scale enterprise involving with production and sales of tires and tire retreading whose production scale and economic benefits is top ranked nationwide in China tire sector.

The company emphasizes tire quality and constantly standardizes its production operation. The company has successfully and separately passed authorization and audit of ISO TS16949, ISO 9001 quality system and China Compulsory Certificate, acquired some foreign country certificates such as "DOT, ECE, S-MARK, INMETRO and GCC" .All Tyres produced in our factory have followed Reach Act and Tyre Labelling of Europ market equipments.

Shandong Wanda Boto Tyre Co., Ltd sincerely welcomes friends from home and abroad for export business discussion!

CONTENT

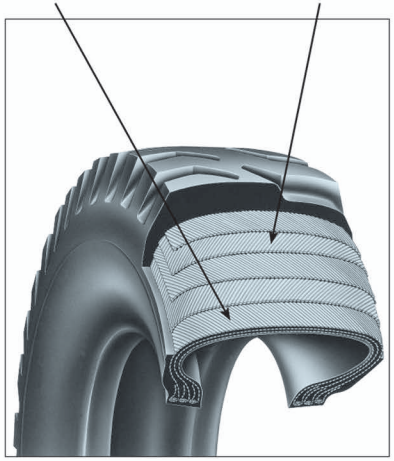
BOTO *Start a new journey*

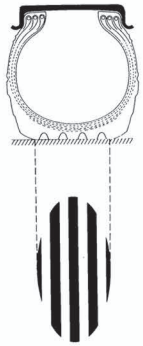
TYRE CONSTRUCTION

BIAS OR DIAGONAL PLY CONSTRUCTION

The casing is made up of several **criss-crossed plies.**

The crown **is not stabilized.**

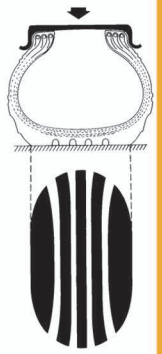




The crown and sidewalls are formed by the same ply structure. The tread is affected by flexing of the sidewalls, resulting in,
- deformation of the tyre contact area on the ground
- movement in the tread contact area.

The casing plies tend to "scissor" in relation to each other.

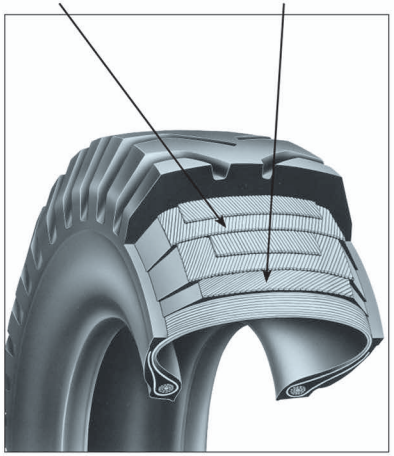
Disadvantages:
- **accelerated wear.**
- **less grip.**
- **increased fuel consumption.**

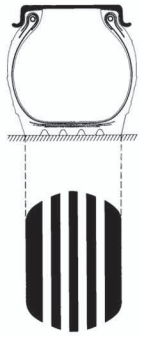


THE BOTO X RADIAL TECHNIQUE

The crown is stabilized by **several plies.**

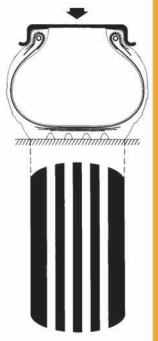
The casing has only **one radial** ply.





The sidewall and tread function separately.
The tread is unaffected by the flexing of the sidewalls, so there is:
- less deformation of the tyre contact area on the ground.
- less movement in tread contact area.
- no movement between casing plies.

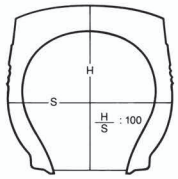
Advantages:
- **longer tyre life.**
- **better traction on all types of surface.**
- **lower fuel consumption due to lower rolling resistance.**
- **improved comfort.**
- **increased resistance to punctures / flats.**
- **increased resistance to heating**



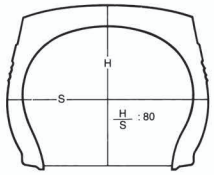
IDENTIFICATION OF BOTO EARTHMOVER TYRES, MARKINGS AND SIZE DESIGNATIONS

THE DIFFERENT EARTHMOVER TYRE FAMILIES

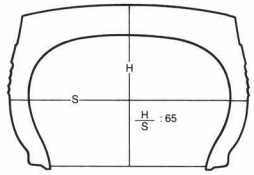
There are 3 major earthmover tyre families categorised by the aspect ratio **H/S**:
(The ratio between the sidewall height and the tyre width).



100 series or standard tyre (narrow base)
The **H/S** aspect ratio is approximately equal to **1**
The section width, given in inches, is to 2 decimal places.



80 series or wide base
The **H/S** aspect ratio is approximately equal to **0.80**
The section width, given in inches, is a whole number followed by a fraction.
e.g.: **20.5 R 25**
or the section width is given in inches followed by the number 80



65 series
The **H/S** aspect ratio is approximately equal to **0.65**
The section width is given in inches or in millimeters followed by the number 65.
e.g.: **35/65 R 33** **750/65 R 25**

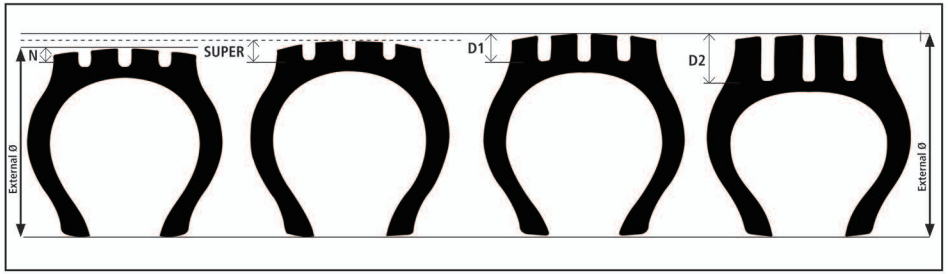
DIFFERENT TREAD COMPOUNDS

Type R1: Standard compound
Type R1C: Standaed compound & cutting resistance
Type H1: High Speed & heat resistance
Type H2: Heat Resistance
Type C1: Cutting resistance
Type C2: Super cutting resistance

IDENTIFICATION OF EARTHMOVER TYRES

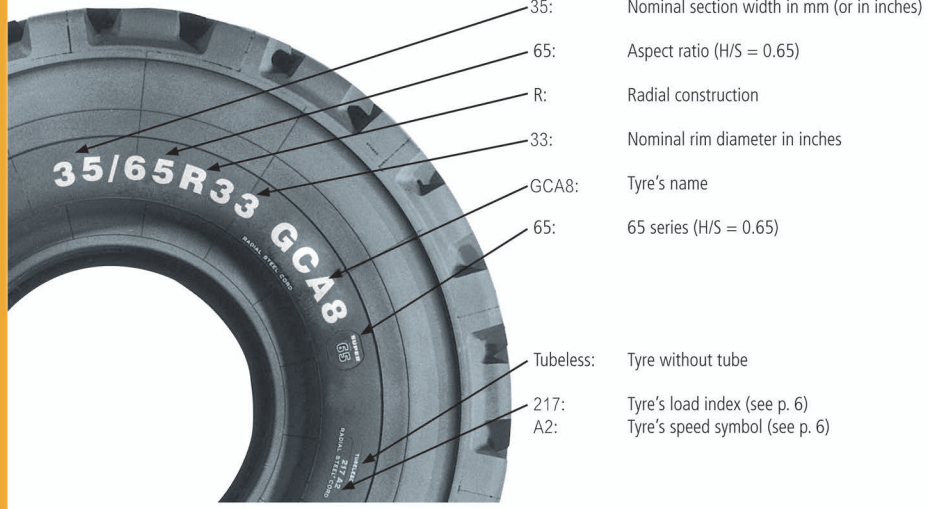
DIFFERENT TREAD DEPTHS

There are 4 earthmover tyre families characterized by their different tread depths (or tread heights) and which are chosen as a function of their use and the surface conditions.



(E2 - E3 - L2 -L3 - G2 - G3)	(SUPER E3, SUPER L3)	(E4 - L4 - G4)	(L5)
Traction, rock	Traction, rock	Rock,	Rock,
BOTO designation:	BOTO designation:	deep tread	extra deep tread
N (Normal)	**SUPER**	BOTO designation:	BOTO designation:
e.g.: XRDN	(N < SUPER < D1)	**D1 = N x 1,5**	**D2 = N x 2,5**

EXAMPLE OF MARKINGS: 35/65 R 33 GCA8



35:	Nominal section width in mm (or in inches)
65:	Aspect ratio (H/S = 0.65)
R:	Radial construction
33:	Nominal rim diameter in inches
GCA8:	Tyre's name
65:	65 series (H/S = 0.65)
Tubeless:	Tyre without tube
217:	Tyre's load index (see p. 6)
A2:	Tyre's speed symbol (see p. 6)

Note that earthmover tyres have a Load Index / Speed Symbol (see example) or one or several stars.

The type of tread rubber (R1,H1,H2,C1,C2) and the tread depth (SUPER, D1, D2) may also be shown.

LOAD INDEX - SPEED SYMBOL

Some tyres bear a load index and a speed symbol.

LOAD INDEX (LI) AND MAXIMUM LOAD (KG/LB)

The LOAD INDEX is a numerical code wich indicates with the maximum load a tyre can carry at the speed corresponding to its speed symbol, under specified conditions.

LI	maximum load		LI	maximum load		LI	maximum load		LI	maximum load		LI	maximum load	
	kg	lb		kg	lb		kg	lb		kg	lb		kg	lb
120	1 400	3 090	**150**	3 350	7 390	**180**	8 000	17 640	**210**	19 000	41 890	**240**	45 000	99 210
121	1 450	3 200	**151**	3 450	7 610	**181**	8 250	18 190	**211**	19 500	43 000	**241**	46 250	101 960
122	1 500	3 310	**152**	3 550	7 830	**182**	8 500	18 740	**212**	20 000	44 100	**242**	47 500	104 720
123	1 550	3 420	**153**	3 650	8 050	**183**	8 750	19 290	**213**	20 600	45 420	**243**	48 750	107 470
124	1 600	3 530	**154**	3 750	8 270	**184**	9 000	19 840	**214**	21 200	46 750	**244**	50 000	110 250
125	1 650	3 640	**155**	3 875	8 540	**185**	9 250	20 390	**215**	21 800	48 070	**245**	51 500	113 540
126	1 700	3 750	**156**	4 000	8 820	**186**	9 500	20 940	**216**	22 400	49 390	**246**	53 000	117 950
127	1 750	3 860	**157**	4 125	9 090	**187**	9 750	21 500	**217**	23 000	50 700	**247**	54 500	120 150
128	1 800	3 970	**158**	4 250	9 370	**188**	10 000	22 050	**218**	23 600	52 040	**248**	56 000	123 480
129	1 850	4 080	**159**	4 375	9 650	**189**	10 300	22 710	**219**	24 300	53 580	**249**	58 000	127 890
130	1 900	4 190	**160**	4 500	9 920	**190**	10 600	23 370	**220**	25 000	55 120	**250**	60 000	132 300
131	1 950	4 300	**161**	4 625	10 200	**191**	10 900	24 030	**221**	25 750	56 780	**251**	61 500	135 580
132	2 000	4 410	**162**	4 750	10 470	**192**	11 200	24 690	**222**	26 500	58 430	**252**	63 000	138 890
133	2 060	4 540	**163**	4 875	10 750	**193**	11 500	25 360	**223**	27 250	60 070	**253**	65 000	143 300
134	2 120	4 670	**164**	5 000	11 020	**194**	11 800	26 020	**224**	28 000	61 740	**254**	67 000	147 710
135	2 180	4 810	**165**	5 150	11 350	**195**	12 150	26 790	**225**	29 000	63 940	**255**	69 000	152 120
136	2 240	4 940	**166**	5 300	11 690	**196**	12 500	27 560	**226**	30 000	66 150	**256**	71 000	156 530
137	2 300	5 070	**167**	5 450	12 020	**197**	12 850	28 330	**227**	30 750	67 790	**257**	73 000	160 930
138	2 360	5 200	**168**	5 600	12 350	**198**	13 200	29 100	**228**	31 500	69 460	**258**	75 000	165 340
139	2 430	5 360	**169**	5 800	12 790	**199**	13 600	29 990	**229**	32 500	71 660	**259**	77 500	170 660
140	2 500	5 510	**170**	6 000	13 230	**200**	14 000	30 870	**230**	33 500	73 870	**260**	80 000	176 400
141	2 575	5 680	**171**	6 150	13 560	**201**	14 500	31 970	**231**	34 500	76 070	**261**	82 500	181 880
142	2 650	5 840	**172**	6 300	13 890	**202**	15 000	33 070	**232**	35 500	78 280	**262**	85 000	187 390
143	2 725	6 010	**173**	6 500	14 330	**203**	15 500	34 180	**233**	36 500	80 480	**263**	87 500	192 900
144	2 800	6 170	**174**	6 700	14 770	**204**	16 000	35 280	**234**	37 500	82 690	**264**	90 000	198 450
145	2 900	6 390	**175**	6 900	15 210	**205**	16 500	36 380	**235**	38 750	85 430	**265**	92 500	203 920
146	3 000	6 610	**176**	7 100	15 650	**206**	17 000	37 480	**236**	40 000	88 200	**266**	95 000	209 440
147	3 075	6 780	**177**	7 300	16 090	**207**	17 500	38 590	**237**	41 250	90 940	**267**	97 500	214 950
148	3 150	6 950	**178**	7 500	16 530	**208**	18 000	39 690	**238**	42 500	93 710	**268**	100 000	220 500
149	3 250	7 170	**179**	7 750	17 090	**209**	18 500	40 790	**239**	43 750	96 470	**269**	103 000	227 370

SPEED SYMBOLS

The SPEED SYMBOL indicates the maximum speed at which the tyre can carry a load corresponding to its load index, under specified conditions.

Symbol	A2	A3	A4	A5	A6	A8	B	C	D	E	F	G
speed (km/h)	10	15	20	25	30	40	50	60	65	70	80	90
speed (mph)	6	9	12	15	19	25	31	37	40	43	50	56

Examples of tyre marking:
23.5 R 25 X-SUPER TERRAIN AD TL 185 B ; this tyre is able to carry 9250 kg at a speed of 50 km/h (20 400 lb at 30 mph)
445/95 R 25 X-CRANE AT TL 174 F ; this tyre is able to carry 6 700 kg at a maximum speed of 80 km/h (14 775 lb at 50 mph)

It is imperative:
- **do not exceed the permited max. speed of the tyre**
- **do not exceed the permited max. distances in one hour indicated in the tables of tyre's characteristic**
- **At the time of fitting , it is vital that the various markings be checked , in order to be certain that the tyre is suitable for operation at the maximum allowed vehicle speed and load.**

MAXIMUM PLY RATING (PR) AND CORRESPONDING STAR(*) MARKING ON BOTO RADIAL TYRES

SIZES AND MARKINGS	WORK MACHINES PR	TRANSPORT MACHINES PR	SIZES AND MARKINGS	WORK MACHINES PR	TRANSPORT MACHINES PR
12.00R24★★★	24	24	20.5R25★★		28
13.00R25 ★★★		28	23.5R25★	28	
14.00R20	20		23.5R25★★		32
14.00R24TG★	16		26.5R25★	32	
14.00R24	24		26.5R25★★		32
14.00R24★★★	28	32	29.5R25★	34	
14.00R25★★★		32	29.5R25★★		34
16.00R24TG★	16		29.5R29★	34	
16.00R24★★		36	29.5R29★★		40
16.00R25★★		36	18.00R33★★		40
17.5R25★	16		21.00R33★★		32
17.5R25★★	20	24	35/65R33★	36	
18.00R25★	24		35/65R33★★(1)		
18.00R25★★		36	21.00R35★★		44
20.5R25★	24		24.00R35★★		48

(1) no corresponding PR in these sizes which are only made in radial construction.

CLASSIFICATION OF EARTHMOVER TYRES

Use code: C: Compactor
G: Grader
E: Earthmoving
L: Loader and Bulldozer

Index: S: smooth (mine, hard ground)
1: ribbed (smooth surfaces)
2: traction (regular)
3: rock (regular)
4: rock (deep tread)
5: rock (extra deep tread)
7: "flotation" (work on yielding surfaces)

Standardized identification code			BOTO tread patterns to be equated with the codes opposite
Code	Tread pattern	Application	
C1	SMOOTH	COMPACTOR	
E1 E2 E3 E4 E7	RIBBED TRACTION ROCK ROCK (deep tread) "FLOTATION"	TRANSPORT	GCA5\GCA6\GCB1 GCA1\GCA2\GCA3\GCB5 GCA2\GCA7\GCA9\GCB5
G1 G2 G3 G4 G5	RIBBED TRACTION ROCK ROCK (deep tread) ROCK (extra-deep tread)	GRADER	GCB2
L2 L3 L4 L5 L3S L4S L5S IND4 IND5	TRACTION ROCK ROCK (deep tread) ROCK (extra-deep tread) SMOOTH SMOOTH (deep tread) SMOOTH (extra-deep tread)	LOADER BULLDOZER	GCA1\GCA3\GCB5 GCB5 GCA8 GCB7 GCB3 GCB3

BOTO complementary identification: T = Traction, R = Rock, V = speed, F = Flotation, P = Multi purpose, S/R = Smooth/Rock
e.g.: L3T "Rock tyre (L3; Standardized identification code) where traction is needed (T; BOTO code)"

SIZE AND AVAILABILITY CHART

SIZE	GCA1	GCA2	GCA3	GCA5	GCA6	GCA7	GCA8	GCA9	GCB1	GCB2	GCB3	GCB5	GCB7	GCB8	BT169	BT126
11.00R20																▲
12.00R20																▲
12.00R24		▲									▲					
13.00R25												▲				
14.00R20														▲	▲	
14.00R24										▲	▲	▲				
14.00R25												▲				
16.00R24										▲						
16.00R25				▲					▲							
17.5R25	▲											▲	▲			
18.00R25					▲						▲	▲				
18.00R33		▲						▲								
20.5R25	▲						▲					▲				
21.00R33		▲														
21.00R35								▲								
23.5R25	▲						▲					▲				
24.00R35		▲						▲								
26.5R25	▲		▲			▲	▲					▲				
29.5R25	▲		▲			▲	▲					▲				
29.5R29	▲					▲										
35/65R33						▲	▲									

BOTO EARTHMOVER TYRE RANGE

A VARIETY OF TREAD PATTERNS

For the conditions of use of each tyre according to the machine type, consult the Earthmover tyre range brochure.

GCA1 GCA2 GCA3 GCA5

GCA6 GCA7 GCA8 GCA9

GCB1 GCB2 GCB3 GCB5

GCB7 GCB8 BT126 BT169

BOTO

GCA1

Articulated dumpers Dozers Loaders Graders

- Versatile tread pattern designed for loader, dozer and other equipment used for construction, stockpile, loading application
- Superior traction
- Ensures a very comfortable ride due to its superb stability
- The inner liner with specially designed compound helps prevent air leakage

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH (mm)	TREAD DEPTH (32nds)	LOAD INDEX TRA	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 50KM/H	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 10KM/H
17.5R25 (445/80R25)	★	TL	E-3/L-3	14.00/1.5	28	35/32	157B/176A2	445	1348	4125/375	7100/500
	★★						167B/182A2			5450/525	8500/650
20.5R25 (525/80R25)	★	TL	E-3/L-3	17.00/2.0	28	35/32	168B/186A2	520	1492	5600/375	9500/500
	★★						177B/193A2			7300/525	11500/650
23.5R25	★	TL	E-3/L-3	19.5/2.5	31.5	40/32	176B/195A2	597	1617	7100/375	12150/500
	★★						185B			9250/525	
23.5R25A	★	TL	E-3/L-3	19.5/2.5	42	53/32	176B/195A2	597	1617	7100/375	12150/500
	★★						185B			9250/525	
26.5R25	★	TL	E-3/L-3	22.00/3.0	36	45/32	184B/202A2	673	1750	9000/375	15000/500
	★★						193B/209A2			11500/525	18500/650
29.5R25	★	TL	E-3/L-3	25.00/3.5	43	54/32	191B/208A2	750	1873	10900/375	18000/500
	★★						200B/216A2			14000/525	22400/650
29.5R29	★	TL	E-3/L-3	25.00/3.5	43	54/32	193B/211A2	750	1975	11500/375	19500/500
	★★						202B/218A2			15000/525	23600/650

GCA2

Rigid dumpers

- Non-directional deep tread pattern designed for muddy and soft surfaces
- Excellent traction and floatation offers comfortable handling
- Superior long tread life and excellent puncture resistance
- Low rolling resistance and fuel economy

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH (mm)	TREAD DEPTH (32nds)	LOAD INDEX TRA	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 50KM/H	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 10KM/H
12.00R24	★★★	TT	E-4	8.5	31.5	40/32	158/155F	315	1245	4250/830 (Single) 3875/830 (Dual)	
21.00R33	★★	TT	E-3	15.00/3.0	32		200B (CHINESE STANDARD)	570	1955	14000/650 (CHINESE STANDARD)	
18.00R33	★★	TL	E-4	13.00/2.5	54	68/32	191B	500	1875	10900/700	
24.00R35	★★	TL	E-4	17.00/3.5	57	72/32	209B	655	2175	18500/700	

GCA3

Articulated dumpers Dozers Loaders Graders

- Non-directional traction and standard tread depth pattern design
- Excellent performance supported with low heating-up compound
- Primarily designed for mining, off the road and muddy surfaces

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH (mm)	TREAD DEPTH (32nds)	LOAD INDEX TRA	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 50KM/H	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 10KM/H
26.5R25	★	TL	E-3/L-3	22.00/3.0	38.5	49/32	184B/202A2	673	1750	9000/375	15000/500
	★★						193B/209A2			11500/525	18500/650
29.5R25	★	TL	E-3/L-3	25.00/3.5	43	54/32	191B/208A2	750	1873	10900/375	18000/500
	★★						200B/216A2			14000/525	22400/650

GCA5

Transport Cranes Fire & Rescue Flatbed

- Primarily designed for high speed long haul application
- Superior comfortable ride
- High-speed performance
- Superior traction on all surfaces

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH (mm)	TREAD DEPTH (32nds)	LOAD INDEX ETRTO	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) ETRTO 50KM/H	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) ETRTO 10KM/H
16.00R25 (445/95R25)	★	TL	E-2	11.25/2.0	25	31/32	167B	432	1493	5450/450	
	★★						177B			7300/650	
	★★★						177E			7300/900	

GCA7

Articulated dumpers Underground Shuttle Trucks

- This deep tread particularly suitable for loaders and dump trucks operating in quarry or mining
- Unique non-directional traction pattern ensures optimum traction and prolongs tread life
- Superior sidewall cut resistance
- Good self-cleaning with groove stone ejector

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH (mm)	TREAD DEPTH (32nds)	LOAD INDEX TRA	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 50KM/H	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 10KM/H
26.5R25	★	TL	E-4	22.00/3.0	58	73/32	184B	673	1798	9000/375	
	★★						193B			11500/525	
29.5R25	★	TL	E-4	25.00/3.5	60	76/32	191B	750	1920	10900/375	
	★★						200B			14000/525	
29.5R29	★	TL	E-4	25.00/3.5	60	76/32	193B	750	1975	11500/375	
	★★						202B			15000/525	
35/65R33	★	TL	E-4	28.00/3.5	62.5	79/32	199B	890	2075	13600/350	
	★★						207B			17500/475	

GCA6

Transport Flatbed Cranes Fire & Rescue

- Mobile crane tire, designed for on-off highway application
- Offers superior durability and cool running at high speed
- This new generation of tread design offers exceptional abrasiveness and fuel economy

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH (mm)	TREAD DEPTH (32nds)	LOAD INDEX ETRTO	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) ETRTO 50KM/H	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) ETRTO 10KM/H
18.00R25 (505/95R25)	★	TL	E-2	13.00/2.5	30	38/32	176B	498	1615	7100/450	
	★★						185B			9250/650	
	★★★						186E			9500/900	

GCA8

Underground Shuttle Trucks LHD Dozers Loaders Graders

- Extra deep tread pattern is specially designed for loaders and dozers on extremely rocky surfaces in open pit, quarries and underground mines
- Superior sidewall cut resistance
- Long tread life
- Exceptional casing durability
- Enhanced stability and riding comfort

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH (mm)	TREAD DEPTH (32nds)	LOAD INDEX TRA	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 50KM/H	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 10KM/H
20.5R25	★	TL	L-5	17.00/2.0	68	86/32	186A2	521	1548		9500/500
	★★						193A2				11500/650
23.5R25	★	TL	L-5	19.5/2.5	78	98/32	195A2	597	1673	12150/475	
	★★						201A2			14500/600	
26.5R25	★	TL	L-5	22.00/3.0	88	111/32	202/A2	673	1798		15000/500
	★★						209/A2				18500/650
29.5R25	★	TL	L-5	25.00/3.5	95	120/32	208A2	750	1920		18000/500
	★★						216A2				22400/650
35/65R33	★	TL	L-5	28.00/3.5	95	120/32	217A2	890	2075		23000/500
	★★										

GCA9

Rigid dumpers

- Deep tread designed for severe and rocky surfaces
- Used for underground mining,open pits and quarries
- Specially designed sidewall provides extended protection from cutting
- Excellent combination of traction, stability and comfortable ride

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH (mm)	TREAD DEPTH (32nds)	LOAD INDEX TRA	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 50KM/H	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 10KM/H
18.00R33	★	TL	E-4	13.00/2.5	49	62/32	180B	500	1875	8000/475	
	★★						191B			10900/700	
21.00R35	★★	TL	E-4	15.00/3.0	53	67/32	201B	555	2040	14500/700	
24.00R35	★	TL	E-4	17.00/3.5	58	73/32	199B	655	2175	13600/475	
	★★						209B			18500/700	

GCB1

Transport Cranes Fire & Rescue Flatbed

- The tread design improves operator comfort by reducing road noise and delivering precise handling response
- High speed capabilities
- Excellent traction on all conditions both on and off highways
- Exceptional casing durability

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH (mm)	TREAD DEPTH (32nds)	LOAD INDEX TRA	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 50KM/H	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 10KM/H
16.00R25 (445/95R25)	★	TL	E-2	11.25/2.0	23	29/32	167B	432	1493	5450/475	
	★★						177B			7300/700	
	★★★						177E			7300/900(70KM/H)	

GCB2

Graders

- Suitable for grader with a stable contour
- Unique pattern design offers excellent traction and grip

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH (mm)	TREAD DEPTH (32nds)	LOAD INDEX TRA	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 50KM/H	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 10KM/H
14.00R24 (385/95R24)	★ ★★	TL	G-2	8.00TG	26	33/32	153A8	360	1350	3650/375(40KM/H)	
16.00R24 (445/95R24)	★ ★★	TL	G-2	10.00VA	28	35/32	161A8	425	1460	4625/375(40KM/H)	

GCB3

Terminal Tractor Container handler Reach stacker Fork truck

- Suitable for straddle carriers, forklifts and other port equipment
- Special tire construction design has ultra-deep tread, excellent carrying capacity and long service life

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH (mm)	TREAD DEPTH (32nds)	LOAD INDEX TRA	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 50KM/H	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 10KM/H
12.00R24	★★ ★★★	TT	IND-5	8.5V/1.8	40	50/32	178A5 180A5	315	1275		
14.00R24 (385/95R24)	★★★	TT/TL	IND-5	10.00W/10.0	60	75/32	196A5	375	1368	12500/1000(25KM/H)	
18.00R25 (505/95R25)	★★★	TL	IND-4	13.00/2.5	63.5	80/32	214/A5	498	1673	21200/1000 (25KM/H)	

GCB5

Articulated dumpers Dozers Loaders Graders

- Special pattern design, with elegant formal expressions
- With excellent traction and buoyancy performance
- Outstanding stability and operating comfort, with large pattern plate and long service life

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH (mm)	TREAD DEPTH (32nds)	LOAD INDEX TRA	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 50KM/H	MAX.LOAD AND INFLATION PRESSURE(kg/kpa) TRA 10KM/H
13.00R25	★★ ★★★	TT	E-3	8.50/1.3	28	35/32	162/B (CHINESE STANDARD) 163/B (CHINESE STANDARD)	335	1285	4750/650 (CHINESE STANDARD) 4875/700 (CHINESE STANDARD)	
14.00R24 (385/95R24)	★★ ★★★	TT/TL	E-3	10.00W/10.0	30	38/32	168B 170B	375	1368	5600/700 6050/800	
14.00R25 (385/95R25)	★★ ★★★	TL	E-3	10.00/2.0 10.00/1.5	30	38/32	168B 170B	375	1368	5600/700 6050/800	
17.5R25 (445/80R25)	★ ★★	TL	E-3/L-3	14.00/1.5	26.5	33/32	157B/176A2 167B/182A2	445	1348	4125/375 5450/525	7100/500 8500/650
17.5R25 (445/80R25)	★ ★★	TL	E-4/L-4	14.00/1.5	36	45/32	157B/176A2 167B/182A2	445	1348	4125/375 5450/525	7100/500 8500/650
18.00R25	★ ★★	TT/TL	E-4	13.00/2.5	47	59/32	176B 185B	498	1673	7100/475 9250/700	
20.5R25 (525/80R25)	★ ★★	TL	E-3/L-3	17.00/2.0	28.5	36/32	168B/186A2 177B/193A2	520	1492	5600/375 7300/525	9500/500 11500/650
23.5R25	★ ★★	TL	E-3/L-3	19.5/2.5	32	40/32	176B/195A2 185B/201A2	597	1617	7100/375 9250/525	12150/500 14500/650
26.5R25	★ ★★	TL	E-3/L-3	22.00/3.0	35	44/32	202A2/184B 209A2/193B	673	1750	9000/375 11500/525	15000/500 18500/650
29.5R25	★ ★★	TL	E-4/L-4	25.00/3.5	57	72/32	191B/208A2 200B/216A2	750	1873	10900/375 14000/525	18000/500 22400/650

GCB7

LHD Loaders

- Smooth,extra deep tread pattern is specially designed for loaders, scrapers and other engineering machines which work underground mine alley, tunnels or other harsh conditions
- Special cut resistant tread compound and formula and smooth,extra thick tread offers good performance,wear resistance and puncture resistance against ores and coal

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH		LOAD INDEX	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa)	
					(mm)	(32nds)	TRA			TRA	
										50KM/H	10KM/H
17.5R25	★★	TT	L-5S	14.00/1.5	60	75/32	182/A2	445	1399		8500/650

BT126

Tip lorry Mining Trucks

- Mainly for drive wheels
- Applicable for driving on bad road conditions, especially for mining road
- Widen and deeper pattern design with excellent grip、traction and ride ability performance
- The pattern is With good performance in cutting resistance、anti-puncture and anti-cracking

SIZE	PLY	TYPE	NEW TYRE INFLATED DIMENSIONS(mm)		LOAD INDEX	MAX.LOAD (kg)	PRESSURE	SPEED RATING	STANDARD RIM	TREAD DEPTH (mm)
			SECTION WIDTH	OVERALL DIAMETER	SINGLE/DUAL	SINGLE/DUAL (kg)	SINGLE/DUAL (kpa)			
11.00R20	18	TT	293	1085	152/149	3550/3250	930/930	E	8.0	32
12.00R20	18	TT	315	1125	154/151	3750/3450	830/830	E	8.5	32

GCB8

Desert Off-road Trucks

- Unique dentate pattern design in tire shoulder provides good mud and sand handling ability
- This tread pattern design improves tire traction ability and turning control with excellent maneuverability when vehicles plunge in mires

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH		LOAD INDEX	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa)	
					(mm)	(32nds)	TRA			TRA	
										50KM/H	10KM/H
14.00R20	20PR	TT		10.00	20	25/32	164/161F	374	1232	5000/790 (Single) 4625/790 (Dual)	

BT169

Mining Trucks

- With good traction and grip performance
- Specially designed for mine dump truck,with excellent resistance to cutting
- Special pattern design, which has good performance in puncture resistance

SIZE	STAR LEVEL	TYPE	CODE INDICATION	STANDAR RIM	TREAD DEPTH		LOAD INDEX	SECTION WIDTH (mm)	OVERALL DIAMETER (mm)	MAX.LOAD AND INFLATION PRESSURE(kg/kpa)	
					(mm)	(32nds)	TRA			TRA	
										50KM/H	10KM/H
14.00R20	20PR	TT		10.00	21	26/32	164/161F	374	1232	5000/790 (Single) 4625/790 (Dual)	

BOTO

SHANDONG WANDA BOTO TIRE CO.,LTD.

OTR RADIAL TIRE LIMITED WARRANTY

VERSION:2008 V1.0 (EFFECTIVE: January 1st,2008)

BRIEF INTRODUCTION:

Shandong Wanda BOTO Tire Co., Ltd (hereinafter called "BOTO") is a professional OTR /TBR tires manufacturer. With most of its world advanced production and test equipments and quality materials supplied by some international conglomerates, BOTO offers the most complete OTR product line and reliable quality OTR radial tires in China.

The following limited warranty contains certain rights and obligations that pertain to BOTO and other off-take branded OTR)radial tires. Please review these rights and obligations carefully.

This limited warranty covers BOTO/YOTO and other off -take branded OTR radial tires provided by BOTO on the global market(excluding mainland of China).

WHO IS ELIGIBLE?

You are eligible for the benefits of this limited warranty if you are the original purchaser or authorized agent of the original purchaser of new BOTO/YOTO and other off-take OTR radial tires bearing comple te serial numbers.

WHAT IS COVERED AND FOR HOW LONG?

This limited warranty covers all OTR radial tires presented & provided by BOTO for adjustment on or after January 1st,2008. The limited warranty is in effect for 5 years commencing on the date of Bill of Lading (B/L). If proof of the purchase date is not available, the date of manufacture indicated on the serial number will be used as the warranty commencement date.

COVERAGE:

If any OTR radial tire provided by BOTO and covered by this limited warranty becomes unserviceable due to a covered warranty condition, such tire will, at the option of BOTO, be repaired or replaced with a comparable new OTR radial tire(BOTO and other off-take brand),discounted on a pro rata basis, or, at the BOTO option, BOTO will issue an appropriate credit. The customer charge for replacement will be calculated by multiplying BOTO's current replacement tire price at the adjustment location(exclusive of taxes), by the percentage determined from the following chart. In the event BOTO issues a credit, the credit will reflect the discount that would have been included in the foregoing charge.

Amount of Credit to the Customer for Workmanship and Material Conditions

	Percentage of Remaining Tread Depth (RTD%)									
	91%to 100%	81%to 90%	71%to 80%	61%to 70%	51%to 60%	41%to 50%	31%to 40%	21%to 30%	11%to 20%	0%to 10%
TIRE AGE	BOTO's Compensation									
1Year or less	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
2Year or less	100%	90%	80%	70%	60%	50%	40%	30%	20%	10%
3Year or less	95%	85%	75%	65%	55%	45%	35%	25%	15%	5%
4Year or less	92%	82%	72%	62%	53%	42%	32%	22%	12%	2%
5Year or less	90%	80%	70%	60%	50%	40%	30%	20%	10%	0%
More than 5Year	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%

WARRANTY LIMITATIONS:

This limited warranty is applicable to the original purchaser and is not assignable to subsequent purchases.

No BOTO's dealer, agent, or representative has the authority to make or imply any representation, promise or agreement which in any way varies or extends the terms of this warranty.

Any OTR radial tires, no matter how well manufactured, may fail in service of otherwise become unserviceable due to conditions

beyond the control of the manufactures. This limited warranty is under no circumstances a representation that a tire failure cannot occur.

This limited warranty gives you specific rights and you may also have other rights which may vary from jurisdiction to jurisdiction. To the extent that the provisions of any applicable such term or terms shall be accordingly replaced, eliminated, amended or extended, as the case may be, in accordance with such legislation.

MEASURE OF REMAINING TREAD DEPTH:

1, Vernier caliper (or professional caliper) is used, when measuring , avoiding the wearing mark. Any the vernier caliper (or professional caliper) must be vertical to the bottom of groove.

2, The position of measure: Groove depth of middle line on the tread or depth of the leading groove nearest to the tread center.

3, Avoid the strengthening veins and position of wearing mark when measuring.

4, Calculation of tread depth: measure the depth of four equal indexes on the tread circle, and the average vaule of the four data is regarded as the remaining tread depth.

WHAT IS NOT COVERED BY THIS WARRANTY?

The following are not covered by this policy:

1, Tires purchased more than 5 years prior to presentation. Without proof of the B/L date, tires manufactured more than 5 years prior to presentation are not covered.

2, Tires sold as a blemish (B grade tires: the first letter of brand is moved).

3, Tires for which an alternate warranty/guarantee has been negotiated.

The tread wear and damage will not covered by the limited warranty influenced by the following conditions:

1,Damaged resulting from misuse, improper mounting, misapplication, use of non-approved rims, improper inflation, overloading, running flat, misalignment of imbalance of wheels/rims, defective brakes of shock absorbers, abuse, willful damage, oil , chemical action, fire or other externally generated heat, use of studs, water or other material entrapped inside the tire, vehicle damage or road hazards (such as rock cuts, punctures, cut separations, impacts, flex breaks).

2, Claims for irregular wear or rapid tread wearout are not covered by this limited warranty.