



HORIZON
T O W E R



Tyres Engineered for the Toughest Missions.

www.horizontwr.com





Being equipped with high-performing tyres	Relying on a specialised team	Benefiting from minimum running costs
 Designed and homologated according to demanding specifications, thanks to Michelin's partnership with military vehicle manufacturers.	Experienced in the requirements of military and off-road activity. 	High mileage potential, damage resistance and reliability of Michelin casings. Tyres specifically designed for military use with anti-FOD (Foreign Object Deposit) characteristics. Through the tyre's life, MICHELIN offers best value while offering high levels of damage resistance and survivability.
Choosing from a comprehensive range of products	Profiting from technological innovations from a global manufacturer	Counting on worldwide assistance
For all types of vehicles and all conditions of use.	All-terrain tyres on radial casings, patented tread patterns and concept solutions.	Availability of MICHELIN tyres and technical support on five continents. 

MILITARY TYRE USE

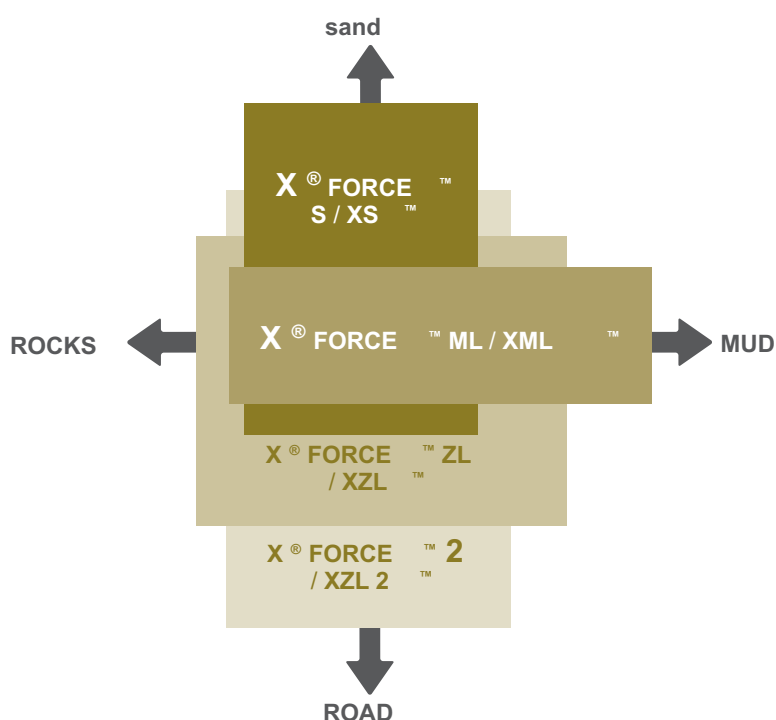
SPEED / LOAD INDEX

Speed index

SI	D	E	F	G	J	K	L	M	N
Km / h	65	70	80	90	100	110	120	130	140

Load index

LI	KG	LL	KG	LL	KG	LL	KG
106	950	124	1600	142	2650	160	4500
107	975	125	1650	143	2725	161	4625
108	1000	126	1700	144	2800	162	4750
109	1030	127	1750	145	2900	163	4875
110	1060	128	1800	146	3000	164	5000
111	1090	129	1850	147	3075	165	5150
112	1120	130	1900	148	3150	166	5300
113	1150	131	1950	149	3250	167	5450
114	1180	132	2000	150	3350	168	5600
115	1215	133	2060	151	3450	169	5800
116	1250	134	2120	152	3550	170	6000
117	1285	135	2180	153	3650	171	6150
118	1320	136	2240	154	3750	172	6300
119	1360	137	2300	155	3875	173	6500
120	1400	138	2360	156	4000	174	6700
121	1450	139	2430	157	4125	175	6900
122	1500	140	2500	158	4250	176	7100
123	1550	141	2575	159	4375		



Tyre Range Chart



MILITARY



OFF ROAD



MICHELIN®
X® FORCE™ ZL/XZL



MICHELIN®
X® FORCE™ 2/XZL 2™



MICHELIN®
X® FORCE™ ZH



MICHELIN®
X® FORCE™ S/XS™

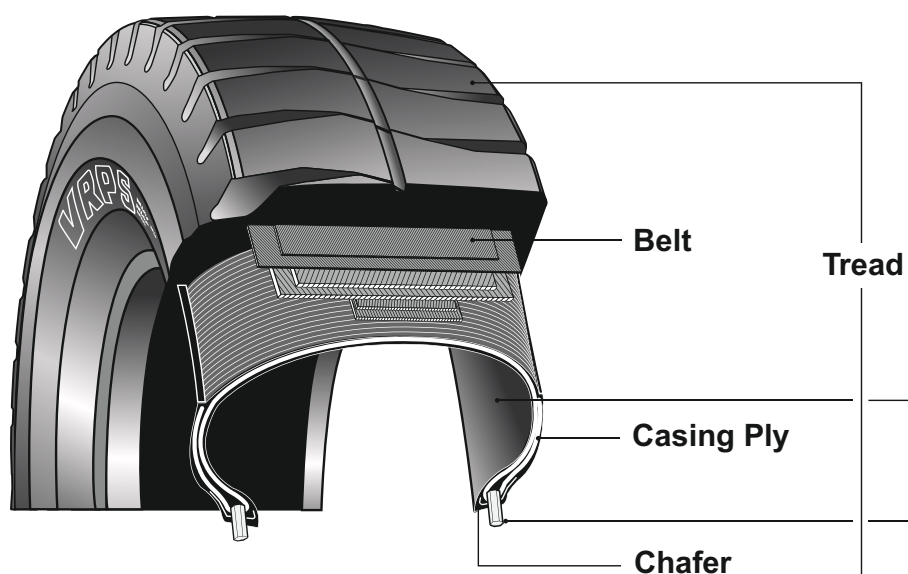


MICHELIN®
X® FORCE™ ML/XML™

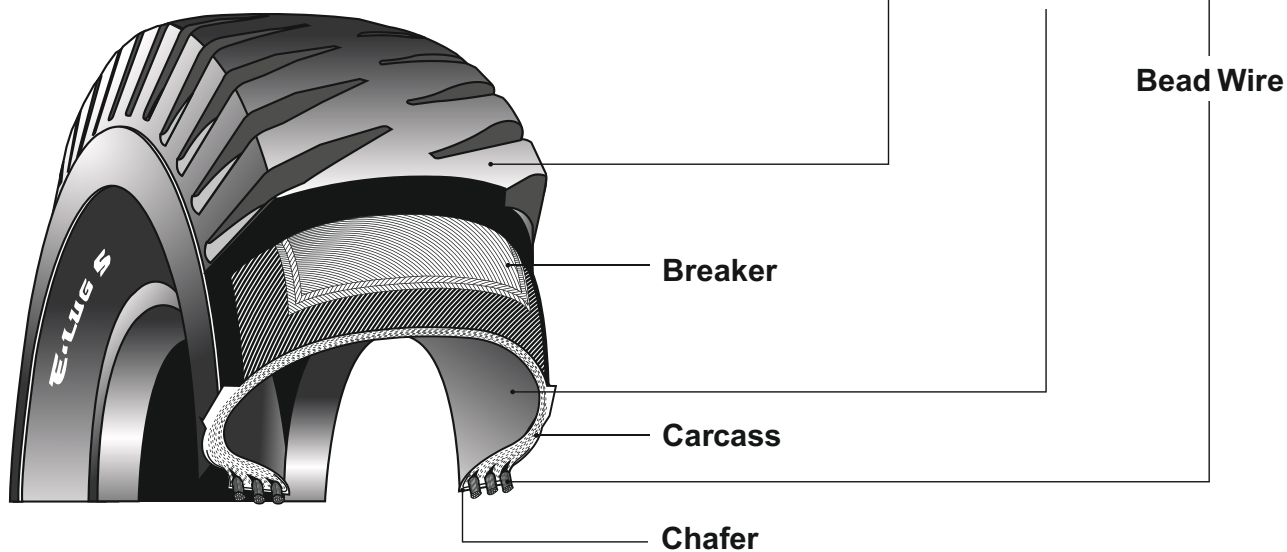


1. Structural Diagram

Off-The-Road Radial Tire (ORR)



Off-The-Road Bias Tire (ORS)



2.1 Tire Size

The size of each tire is indicated by nominal width and rim diameter in inches and mm. Radial structure is indicated by the letter "R". For some tire the aspect ratio is indicated by percentage.

Example

Radial Tire ; 40.00R57, 33.25R35, 445/95R25

Bias Tire ; 21.00-35, 45/65-45

2.2 Star Rating, Ply Rating and Load Index

The load capacity of a tire is indicated by the star rating (in case of radial tire) and the ply rating (in case of bias tire).

The load index is applied in countries where the ETRTO standards are used.

2.3 Overall Diameter (OD)

"Overall Diameter" is twice the section height of a new tire, plus the nominal rim diameter, including 24-hour inflation growth.

2.4 Overall Width (OW)

"Overall Width" is the width of a new tire, including 24-hour inflation growth, and including protective side ribs, bars or decorations.

2.5 Section Width (SW)

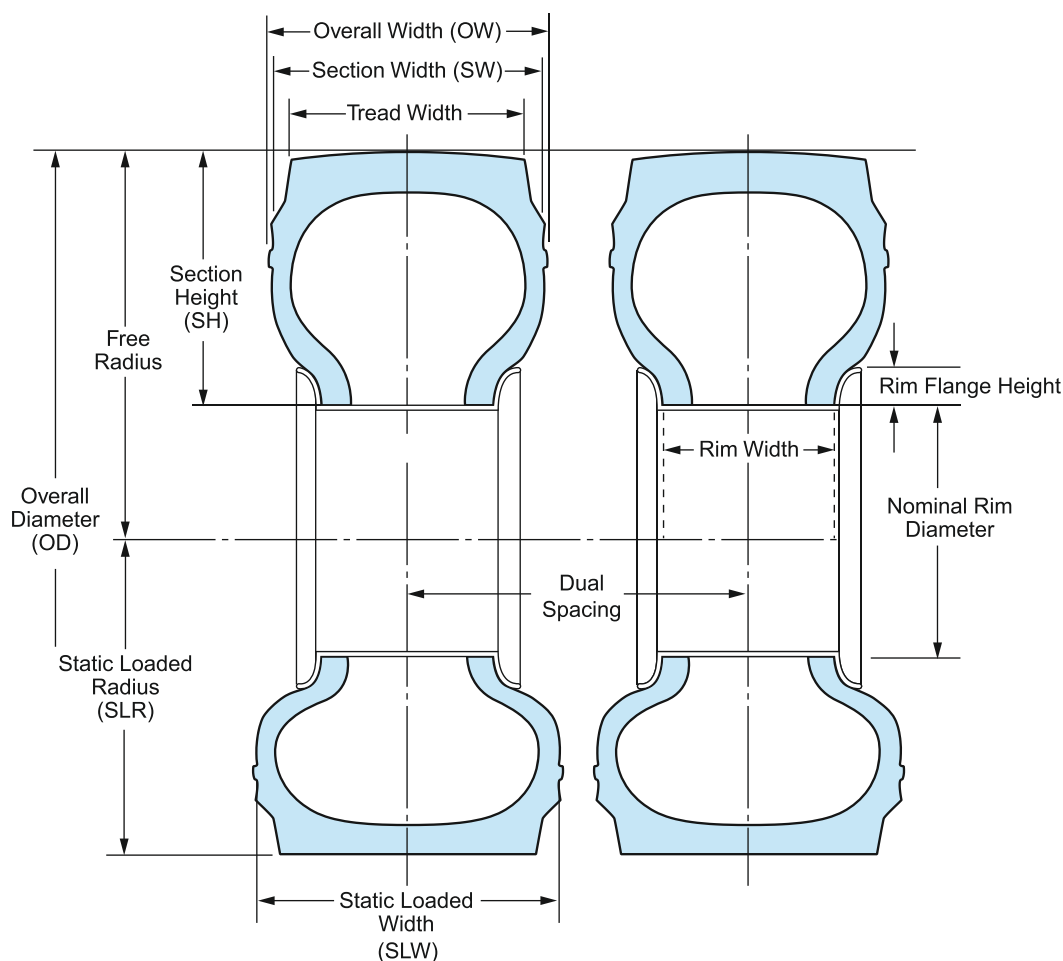
"Section Width" is the width of a new tire, including 24-hour inflation growth and including normal sidewalls, but not including protective side ribs, bars, or decorations.

2.6 Static Loaded Radius and Width (SLR, SLW)

"Static Loaded Radius" is the shortest distance from the axle center to the contact surface of a tire and "Static Loaded Width" is the overall width of a tire, mounted on the approved rim at the specified inflation pressure and placed still and vertically on a flat board, and loaded with the specified load.

2.7 Original Tread Depth (OTD)

"Original Tread Depth" is the tread depth of a new tire measured at the point of tread-indicator where available or one-fourth the width of the tire crown section from the crown center, including 24-hour inflation growth.



3.1 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	Function	Vehicles	Main tire characteristics required
Earthmover	Transporting	 Rigid dump trucks  Articulated dump trucks  Coal haulers  Scrapers  Off road trucks	Heat-resistance, Cut-resistance, Wear-resistance Shock burst-resistance
Grader	Grading, Leveling	 Graders	Traction, Maneuverability, (directional stability)
Loader and dozer	Loading and dozing	 Loaders, Bulldozers	Cut-resistance, Wear-resistance Stability
Compactor	Compacting	 Tire-rollers	Oil-resistance, Cut-resistance, Wear-resistance
Underground	Underground	 LHDs  Drilling Jumbo  Underground Trucks	Cut-resistance, Wear-resistance
Mobile crane (High-speed)	High-speed Travelling	 All-Terrain Cranes	Heat-resistance, Wear-resistance, Traction
Mining and Logging	Log-skidding	 Log-skidders	Traction, Flotation, Cut-resistance
Industrial	Handling & Towing	 Handling & Towing Equipments	Uneven wear, Wear-resistance, Stability

4. Brands We Do

4.1 For OTR:

The logo for Bridgestone, featuring a stylized red and black 'B' followed by the word 'BRIDGESTONE' in black capital letters.The logo for Yokohama, featuring a red stylized 'Y' followed by the word 'YOKOHAMA' in black capital letters.The logo for Goodyear, featuring the word 'GOODYEAR' in black capital letters with a stylized winged foot logo.The logo for Continental, featuring the word 'Continental' in orange with a small orange horse logo.The logo for ATG, featuring the letters 'ATG' in red with 'ALLIANCE TIRE GROUP' in smaller black text below.The logo for Apollo Tyres, featuring the word 'apollo' in purple with 'TYRES' in smaller purple text below.The logo for CEAT, featuring the letters 'CEAT' in white on a blue background with orange horizontal bars.The logo for JK Tyre, featuring a stylized 'J' and 'K' followed by 'TYRE' in black with 'TOTAL CONTROL' in smaller black text below.The logo for Tianli, featuring a stylized orange 'T' followed by the word 'TIANLI' in black capital letters.The logo for Double Coin, featuring a yellow background with a black border, a black 'D' with a coin inside, and the word 'DOUBLECOIN' in black.

4.2 For Truck, Bus, Farm & Car:

The logo for Goodyear, featuring the word 'GOODYEAR' in black capital letters with a stylized winged foot logo.The logo for CEAT, featuring the letters 'CEAT' in white on a blue background with orange horizontal bars.The logo for JK Tyre, featuring a stylized 'J' and 'K' followed by 'TYRE' in black with 'TOTAL CONTROL' in smaller black text below.The logo for Apollo Tyres, featuring the word 'apollo' in purple with 'TYRES' in smaller purple text below.The logo for Pirelli, featuring the word 'PIRELLI' in red capital letters with a stylized red bar above.



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