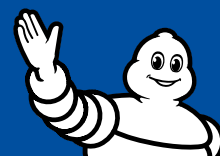


2025 EDITION

MICHELIN TECHNICAL DATA

EARTHMOVER TIRES



MICHELIN



EARTHMOVER TIRES

The information provided herein is for informational purposes only and may not be used or relied upon for legal or statutory action. For technical and safety reasons, a tire should never be used beyond the limits of the technical specifications for which it has been approved and all relevant recommendations as provided herein should be followed. Michelin is not responsible for any use, fitting, storage, maintenance, or handling outside stated recommendations.

MICHELIN® tires are designed for a specific use as defined in this catalog. Any other use constitutes an abnormal use. However, in some circumstances, Michelin may issue a waiver which will specify the conditions and the permitted operational limits for a specific application. If a tire is to be used differently than what it is designed for, please consult your nearest Michelin Representative for further guidance. **Michelin expressly denies any responsibility for any abnormal use of its tires or any use different from the tire's intended design in the absence of express written permission (derogation) from an authorized Michelin Representative.**

Further, correct usage and maintenance are necessary to achieve proper performance and to maximize life. Therefore, it is recommended that users adhere to all safety and usage recommendations. However, you must note that these recommendations may be subject to more restrictive local legal and/or regulatory requirements.

Specifically, tire load and pressure tables included in this book are classified according to the various applications of machines. In the load and pressure tables, the shaded boxes indicate the normalized values. These values reflect optimal use, the best balance of performances. Again, these values are given for informational purposes only and may not be used for legal or statutory actions.

Finally, unless otherwise specified, MICHELIN® off-the-road, industrial, and compact tires comply with internationally accepted standards that are established by TRA (Tire and Rim Association), ETRTO (European Tire and Rim Technical Organisation), JATMA (Japan Automobile Tire Manufacturers Association), and/or ISO (International Standards Organisation). Among other things, the standards encompass load capacity, inflation pressure, overall diameter, overall width, and related valves and rims. Some minor differences may exist between these standards.

PERFORMANCE

Any and all tire performance claims or comparisons contained herein are for informational purposes only to aid in the selection of a tire and **do not** constitute any form of performance guarantee or warranty. Individual results may vary. Such information may not be used as a basis for any performance guarantee or warranty claim.

Following publication, the information herein is subject to change in Michelin's sole discretion.

MICHELIN TECHNICAL DATA

EARTHMOVER TIRES

CONTENT CHAPTER

TIRE RANGE CHART

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**PRODUCT PRESENTATION
AND DATA**

PAGE 10

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PAGE 194

TIRE RANGE CHART



RIGID DUMP TRUCKS



E2

MICHELIN®
XVC™



E3

MICHELIN®
XDC®



E3

MICHELIN®
XDR® 2 S



E3

MICHELIN®
X-TRACTION™ S



E4

MICHELIN®
XDR® +



E4

MICHELIN®
XDR® 2+



E4

MICHELIN®
XDR® 250



E4

MICHELIN®
XDR® 250+



E4

MICHELIN®
XDR® 4 SPEED + MD



E4

MICHELIN®
XDR® 4 SPEED MC



E4

MICHELIN®
XDR® 3



E4

MICHELIN®
XDR® 3+



E4

MICHELIN®
XDR® 3 EXTRA LOAD



E4

MICHELIN®
XDR® 3+ EXTRA LOAD



E4

MICHELIN®
XDR® 4 EXTRA LOAD



E4

MICHELIN®
XDT®



E4

MICHELIN®
XD GRIP



E4

MICHELIN®
XD MINEWORKS



E4

MICHELIN®
X-HAUL



E4

MICHELIN®
XHDT

TIRE RANGE CHART



RIGID DUMP TRUCKS — CONTINUED



E4

MICHELIN®
X-TRACTION™



E4

MICHELIN®
X®TRA LOAD GRIP



E4

MICHELIN®
X®TRA LOAD PROTECT



E4

MICHELIN®
X-QUARRY S



LOADERS



L2

MICHELIN®
X SNOPLUS®



L2

MICHELIN®
XTLA™



L3

MICHELIN®
XHA® 2



L3

MICHELIN®
XLD™ 65



L4

MICHELIN®
XLD® D1



E4/L4

MICHELIN®
XTXL®



L4

MICHELIN®
X® MINE L4**
70/70 R 57



L5

MICHELIN®
XLD® D2



L4

MICHELIN®
XTRA POWER
A4/B4 COMPOUND



L5

MICHELIN®
XTRA POWER



L5

MICHELIN®
X® MINE D2



L5

MICHELIN®
X® MINE D2
EXTRA LOAD



E4/L4

MICHELIN®
XTRA DEFEND
E4/L4

TIRE RANGE CHART



GRADERS



G2

**MICHELIN®
XGLA2™**



L2

**MICHELIN®
X SNOPLUS**



L2

**MICHELIN®
XTLA™**



L3

**MICHELIN®
XHA° 2**



L3

**MICHELIN®
XLD™ 65**



L4

**MICHELIN®
XLD° D1**



L5

**MICHELIN®
XLD° D2**



E4/L4

**MICHELIN®
XTRA DEFEND
E4/L4**



UNDERGROUND MINE MACHINES



E3/L3

**MICHELIN®
XK°**



E4/L4

**MICHELIN®
XTXL°**



SH4

**MICHELIN®
X UM HAUL**



L4/SH4

**MICHELIN®
X MINE° DEFEND**



L5

**MICHELIN®
X MINE° D2**



L5

**MICHELIN®
X MINE° D2
EXTRA LOAD**



L5

**MICHELIN®
X MINE° D2 PRO**



L3

**MICHELIN®
XSM° DN+**



L5

**MICHELIN®
XSM° D2+ LC**



L5

**MICHELIN®
XSM° D2+**



L5

**MICHELIN®
XSM° D2+ PRO**

TIRE RANGE CHART



ARTICULATED DUMP TRUCKS



E3

**MICHELIN®
XADN+®**



super E3

**MICHELIN®
XAD™ 65**



E4/L4

**MICHELIN®
X®TRA DEFEND
E4/L4**



E4

**MICHELIN®
X®TRA DEFEND**



E4

**MICHELIN®
X®-SUPER TERRAIN +**



E7

**MICHELIN®
XS™ SAND**



SCRAPERS



E3

**MICHELIN®
XADN+®**



E3

**MICHELIN®
XTS®**



E3

**MICHELIN®
XMS™**



E4

**MICHELIN®
XRS™**



E4/L4

**MICHELIN®
XTRA DEFEND
E4/L4**

TIRE RANGE CHART



CRANES AND TRANSPORT VEHICLES



E2

**MICHELIN®
X-CRANE 2° (25'')**



E2

**MICHELIN®
X-CRANE 2° (22,5'')**



E2

**MICHELIN®
X-CRANE +° (M+S)**



E2

**MICHELIN®
XGC°**



E2

**MICHELIN®
XMH™ S**



E2

**MICHELIN®
X SNOPLUS°**



COMPACTORS



C1

**MICHELIN®
X° LISSE COMPACTEUR™**

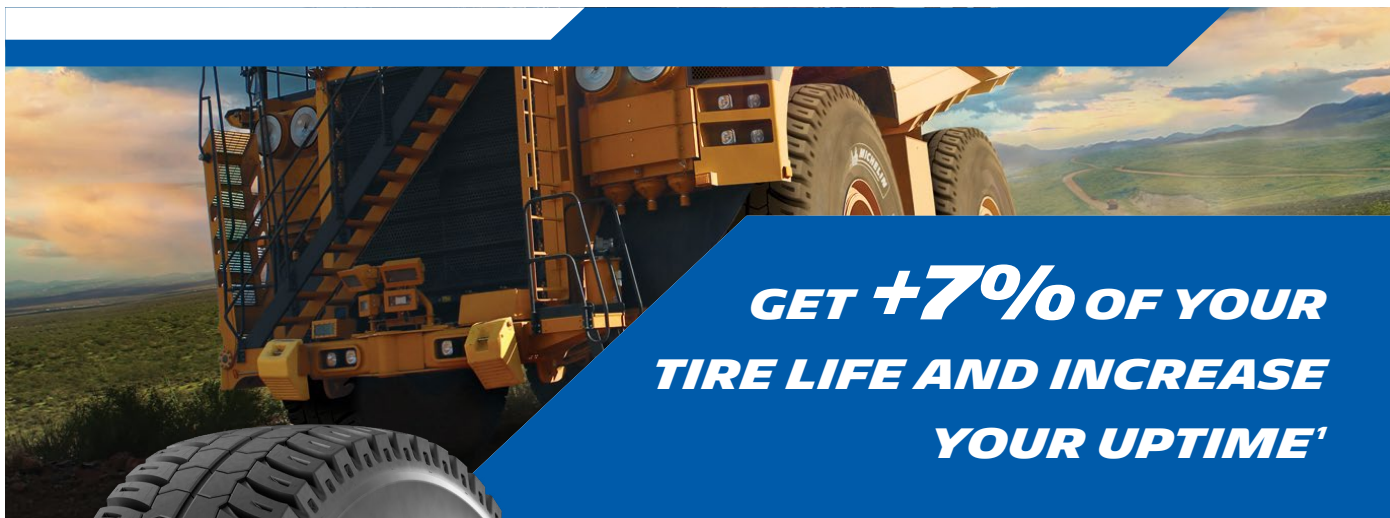
MICHELIN TECHNICAL DATA

EARTHMOVER TIRES

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A4 & B4 COMPOUND	PAGE 99	X FORCE Z / XZL / XZL+	PAGE 187
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MICHELIN XDR2 S



**GET +7% OF YOUR
TIRE LIFE AND INCREASE
YOUR UPTIME¹**



For Rigid Dump Trucks



**BETTER
RESISTANCE TO
AGGRESSIVE
CONDITIONS
AND CORROSION**

Thanks to high resistance steel for stronger cables and plies and corrosion isolating cables design



**BETTER TREAD
ENDURANCE**

A new tread pattern design with better thermal properties and better crown protection



**BETTER BEAD AREA
ENDURANCE**

Experience a 20% wider bead bundle and better rim contact surface¹ thanks to Michelin's B2 technology

¹ Compared to the MICHELIN® 59/80R63 XDR® S tire.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
59/80R63 E3** C4 TL	416409 68652	32 20.0	-	1495 58.9	4029 158.6	1734 68.3	11954 470.6	72 90.7	1834 72.2	-	44.00/5.0 [6.0]	44.00/5.0 [5.5]

Bar	6.0	6.5	6.8
<i>Psi</i>	87	94	99

Machine - Use
kg - lbs

TRANSPORT

STANDARD	100000	102100	104000
<i>STANDARD</i>	220460	225090	229280

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	44.00/5.0 [6.0]	JOINT TORIQUE OR 4-63 R2053 [553056]	-	-

59/80R63 E3** B TL	532463 32399	28 17.0	-	1495 58.9	4029 158.6	1734 68.3	11954 470.6	72 90.7	1834 72.2	-	44.00/5.0 [6.0]	44.00/5.0 [5.5]
---------------------------	-----------------	------------	---	--------------	---------------	--------------	----------------	------------	--------------	---	--------------------	--------------------

Bar	6.0	6.5	6.8
<i>Psi</i>	87	94	99

Machine - Use
kg - lbs

TRANSPORT

STANDARD	100000	102100	104000
<i>STANDARD</i>	220460	225090	229280

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	44.00/5.0 [6.0]	JOINT TORIQUE OR 4-63 R2053 [553056]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XDR2+



**MORE TRACTION,
MORE ROBUST**



For Rigid Dump Trucks



RELIABLE TRACTION

Adheres in loose ground
and muddy conditions



STEEL ENCAPSULATED BY RUBBER

Corrosion spread prevention
and increased robustness



MORE ROBUST BEAD AREA

Increased resistance
and easier
mountability



TIRE SIZE: 40.00R57

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
40.00R57 B4 E4R TL **	255356	20 12.0	960 597.0	1115 43.9	3579 140.9	1577 62.1	10711 421.7	98 123.5	1365 53.7	-	29.00/6.0 [5.7]	29.00/6.0 [5.2] 32.00/6.0
Bar	4.0	4.5		5.0		5.5		6.0		6.5		7.0
Psi	58	65		73		80		87		94		102
Machine - Use kg - lbs	TRANSPORT											
STANDARD	43650	47750		51850		55950		60000		62050		64100
STANDARD	96230	105270		114310		123350		132275		136795		141315
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	29.00/6.0 [5.7]		JOINT TORIQUE OR 4-57 R1481 [553211]		-		-					

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XDR 250

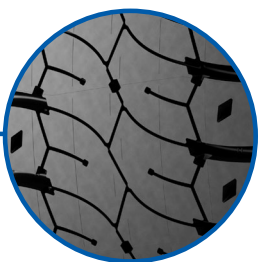


**RUN HARDER, KEEP
COOL, GET MORE**



For Rigid Dump Trucks

**A MORE PRODUCTIVE
TIRE FOR COMPOUNDS C4
AND C WITH AT LEAST 25%⁽¹⁾
MORE TKPH.**



**HIGH LOAD
CAPACITY**

TKPH increase thanks to
bigger tire diameter



**EXCEPTIONAL
TIRE LIFE**

Go further with the
MICHELIN® XDR® 250 tires
thanks to long lasting
compounds



A COOLER TIRE

Increase TKPH without
compromising tire life
thanks to a new, more
ventilated tread pattern

¹ Compared to BRIDGESTONE 46/90R57 VRPS. Data gathered from 2024 BS databook.

MICHELIN XDR250

TECHNICAL CHARACTERISTICS

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
50/80R57 E4** C TL		195241 81178	30 19.0	-	1204 47.4	3610 142.1	1586 62.4	10791 424.8	94 118.4	1420 55.9	-	32.00/6.0 [5.2]	29.00/6.0 [5.2] 29.00/6.0 [5.7] 32.00/6.0 [4.8]
Bar	5.0	5.3	5.5		5.8		6.0	6.3		6.5		6.8	7.0
Psi	73	76	80		83		87	91		94		98	102
Machine - Use kg - lbs		TRANSPORT											
STANDARD	57000	59000	61000		63000		65000	67000		69000		71000	73000
STANDARD	125665	130075	134480		138890		143300	147710		152120		156530	160935
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
		32.00/6.0 [5.2]		JOINT TORIQUE OR 4-57 R1481 [553211]		-		-					
50/80R57 E4** C4 TL		253293 48751	27 17.0	-	1204 47.4	3610 142.1	1586 62.4	10791 424.8	94 118.4	1420 55.9	-	32.00/6.0 [5.2]	29.00/6.0 [5.2] 29.00/6.0 [5.7] 32.00/6.0 [4.8]
Bar	5.0	5.3	5.5		5.8		6.0	6.3		6.5		6.8	7.0
Psi	73	76	80		83		87	91		94		98	102
Machine - Use kg - lbs		TRANSPORT											
STANDARD	57000	59000	61000		63000		65000	67000		69000		71000	73000
STANDARD	125665	130075	134480		138890		143300	147710		152120		156530	160935
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
		32.00/6.0 [5.2]		JOINT TORIQUE OR 4-57 R1481 [553211]		-		-					

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XDR250

TECHNICAL CHARACTERISTICS

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
50/80R57 E4** B TL	274589 50281	24 15.0	-	1204 47.4	3610 142.1	1586 62.4	10791 424.8	94 118.4	1420 55.9	-	32.00/6.0 [5.2]	29.00/6.0 [5.2] 29.00/6.0 [5.7] 32.00/6.0 [4.8]
Bar	5.0	5.5		6.0		6.5		7.0		7.5		8.0
Psi	73	80		87		94		102		109		116
Machine - Use kg - lbs	TRANSPORT											
STANDARD	55000	59000		63000		67000		69000		71000		73000
STANDARD	121255	130075		138890		147710		152120		156530		160935
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	32.00/6.0 [5.2]		JOINT TORIQUE OR 4-57 R1481 [553211]		-		-					
50/80R57 E4** B4 TL	371742 50070	20 12.0	-	1204 47.4	3610 142.1	1586 62.4	10791 424.8	94 118.4	1420 55.9	-	32.00/6.0 [5.2]	29.00/6.0 [5.2] 29.00/6.0 [5.7] 32.00/6.0 [4.8]
Bar	5.0	5.5		6.0		6.5		7.0		7.5		8.0
Psi	73	80		87		94		102		109		116
Machine - Use kg - lbs	TRANSPORT											
STANDARD	55000	59000		63000		67000		69000		71000		73000
STANDARD	121255	130075		138890		147710		152120		156530		160935
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	32.00/6.0 [5.2]		JOINT TORIQUE OR 4-57 R1481 [553211]		-		-					

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XDR 250+

***RUN HARDER,
GET MORE LIFE***



For Rigid Dump Trucks

***INCREASE TIRE
LIFE BY 8%¹ FOR
MB4 AND MB,
THANKS TO:***



***IMPROVED WEAR
RESISTANCE***

With second generation of revolutionary compounds—MB4 and MB

Superior level of carbon black dispersion, leading to increased wear resistance



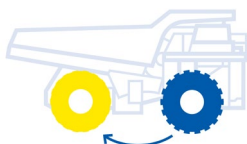
***INCREASED
AGGRESSION
RESISTANCE¹***

Optimized contact patch that delivers improved wear profile and protects your truck

OPTIMIZED WEAR IN FRONT AND REAR AXLES

With Michelin multilayer technology

- Blue layer² is optimized for front axles for the first cycle of the tire's life
- Yellow layer² underneath is optimized for rear axles for the second cycle of the tire's life
- Tires are designed to be rotated to the rear axles to increase tire life



TIRE SIZE: 50/80R57

¹ The new Michelin 50/80R57 XDR 250+ tire has INCREASED TIRE LIFE BY 8%, thanks to new generation of compounds, innovative tread layers⁽¹⁾ and improved aggression resistance.⁽²⁾

⁽¹⁾ Compared to the Michelin XDR 250 50/80R57 tire. Average performance by mine site. Projected improvement in tire life based on field performance in 70 customer mine sites over 25 months. Actual results may vary.

⁽²⁾ Compared to the Michelin XDR 250 50/80R57 tire, thanks to carrying the same load capacity at lower air pressure, according to the 2023 Michelin Databook.

² Blue and yellow tire colors depicted above are for dramatic purposes only. All Michelin tires are black in color.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
50/80R57 E4** MB4 TL		238454 22280	20 12.0	-	1204 47.4	3610 142.1	1586 62.4	10791 424.8	94 118.4	1420 55.9	-	32.00/6.0 [5.2]	29.00/6.0 [5.2] 29.00/6.0 [5.7] 32.00/6.0 [4.8]
Bar	5.0	5.3	5.5		5.8		6.0	6.3		6.5		6.8	7.0
Psi	73	76	80		83		87	91		94		98	102
Machine - Use kg - lbs		TRANSPORT											
STANDARD	57000	59000	61000		63000		65000	67000		69000		71000	73000
STANDARD	125665	130075	134480		138890		143300	147710		152120		156530	160935
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
		32.00/6.0 [5.2]		JOINT TORIQUE OR 4-57 R1481 [553211]		-		-					
50/80R57 E4** MB TL		264071 05633	24 15.0	-	1204 47.4	3610 142.1	1586 62.4	10791 424.8	94 118.4	1420 55.9	-	32.00/6.0 [5.2]	29.00/6.0 [5.2] 29.00/6.0 [5.7] 32.00/6.0 [4.8]
Bar	5.0	5.3	5.5		5.8		6.0	6.3		6.5		6.8	7.0
Psi	73	76	80		83		87	91		94		98	102
Machine - Use kg - lbs		TRANSPORT											
STANDARD	57000	59000	61000		63000		65000	67000		69000		71000	73000
STANDARD	125665	130075	134480		138890		143300	147710		152120		156530	160935
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
		32.00/6.0 [5.2]		JOINT TORIQUE OR 4-57 R1481 [553211]		-		-					

IMPORTANT

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MICHELIN XDR 4 SPEED + MD

**SPEED UP YOUR
PRODUCTIVITY**



For Rigid Dump Trucks



**HIGHEST TKPH ON
THE MARKET¹**

Significantly higher than
the BRIDGESTONE®
MASTERCORE® VREV E3A tire
and 13% higher than the
MICHELIN® XDR® 250 C tire¹



MORE GRIP²

Optimized lateral grooves
assist in faster evacuation of
mud, dirt and water



**SMARTER
SUSTAINABILITY**

Achieving more production
in less time, this lighter tire
supports a greener planet

¹ The MICHELIN® 50/80R57 XDR® 4 SPEED + MD tire offers the HIGHEST TKPH on the market, 1,822 TKPH. This significantly exceeds the BRIDGESTONE® 50/80R57 MASTERCORE® VREV® E3A tire with 1,333 TKPH.⁽¹⁾

⁽¹⁾ TKPH figures from Michelin 2019 Databook and Bridgestone 2021 Databook. Actual site TKPH will vary based on many factors, including cycle distance, temperature, and load conditions.

² MORE GRIP thanks to optimized lateral grooves.⁽¹⁾

⁽¹⁾ Improved grip compared to the MICHELIN® XDR® 250 C 50/80R57 tire.

MICHELIN XDR4 SPEED +

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
50/80R57 E4** MD TL		841338 14855	34 21.0	-	1197 47.1	3607 142.0	1586 62.4	10791 424.8	85 107.1	1420 55.9	-	32.00/6.0 [5.2]	29.00/6.0 [5.2] 29.00/6.0 [5.7] 32.00/6.0 [4.8]
Bar	5.0	5.3	5.5	5.8	6.0	6.3	6.5	6.8	7.0				
Psi	73	76	80	83	87	91	94	98	102				
Machine - Use kg - lbs	TRANSPORT												
STANDARD	57000	59000	61000	63000	65000	67000	69000	71000	73000				
STANDARD	125665	130075	134480	138890	143300	147710	152120	156530	160935				
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]		Flap [CAI]			
		32.00/6.0 [5.2]			JOINT TORIQUE OR 4-57 R1481 [553211]			-		-			

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XDR 4 SPEED MC

**RUN FAST, RUN
COOLER¹, RUN
LONGER²**



For Rigid Dump Trucks



**7% LONGER
TIRE LIFE²**

Without compromising TKPH (1,608), thanks to a tread pattern that improves aggression resistance and a tread compound that is more wear resistant²



**COOLER TIRE AT
THE SAME SPEED¹**

Better thermal capacity reduces TPMS temperature alarms



MORE GRIP³

Optimized lateral grooves assist in faster evacuation of mud, dirt and water



**SMARTER
SUSTAINABILITY**

Supports a greener planet by delivering longer life² without compromising TKPH

¹ COOLER Tire ⁽¹⁾ AT THE SAME SPEED ⁽²⁾ thanks to better thermal capacity that reduces TPMS temperature alarms

⁽¹⁾ Compared to MICHELIN® 50/80R57 XDR® 250 C tire. Actual results may vary.

⁽²⁾ TKPH figures from Michelin 2019 Databook and Bridgestone 2021 Databook. Actual site TKPH will vary based on many factors, including cycle distance, temperature, and load conditions.

² The new MICHELIN® 50/80R57 XDR® 4 SPEED MC tire PROVIDES EXCEPTIONAL tire LIFE with an INCREASE of A MINIMUM of 7% additional tire life ⁽¹⁾

⁽¹⁾ Compared to MICHELIN® 50/80R57 XDR® 250 C, based on average projected performance by mine site. Actual results may vary.

³ MORE GRIP thanks to optimized lateral grooves.⁽¹⁾

⁽¹⁾ Improved grip compared to the MICHELIN® XDR® 250 C 50/80R57 tire.

MICHELIN XDR4 SPEED

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
50/80R57 E4** MC TL		398033 68251	30 19.0	-	1197 47.1	3607 142.0	1586 62.4	10791 424.8	85 107.1	1420 55.9	-	32.00/6.0 [5.2]	29.00/6.0 [5.2] 29.00/6.0 [5.7] 32.00/6.0 [4.8]
Bar	5.0	5.3	5.5	5.8	6.0	6.3	6.5	6.8	7.0				
Psi	73	76	80	83	87	91	94	98	102				
Machine - Use kg - lbs	TRANSPORT												
STANDARD	57000	59000	61000	63000	65000	67000	69000	71000	73000				
STANDARD	125665	130075	134480	138890	143300	147710	152120	156530	160935				
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]		Flap [CAI]			
		32.00/6.0 [5.2]			JOINT TORIQUE OR 4-57 R1481 [553211]			-		-			

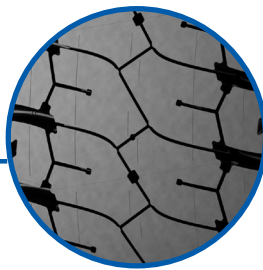
IMPORTANT

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MICHELIN XDR 3

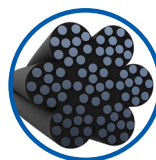


LONG-LASTING INNOVATIONS



For Rigid Dump Trucks

**EXCEPTIONAL
TIRE LIFE, INCREASED
BY A MINIMUM OF
8-10%**^{3,4,5,6,7}

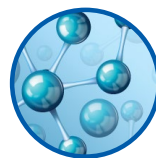


**NEW CORROSION-
PROOF CABLES**

**10%
STRONGER**²



**REVOLUTIONARY
TREAD PATTERN**



**REVOLUTIONARY
COMPOUNDS**

Homogeneous mix designed
to lead to a slower wear rate²

TIRE SIZES¹: 27.00R49, 33.00R51,⁴ 37.00R57,⁶ 40.00R57,³ 50/90R57,⁵ 53/80R63, 59/80R63³

¹ Features may vary depending on specific tire size.

² Vs. Michelin XDR 2 tire, all sizes.

³ Projected improvement in tire life based on wear rate improvements of new MB4/MC4 tread compounds and on field performance in 14 customer mine sites over 29 months comparing the tread pattern of the Michelin XDR tire (on predecessor and prototype tires) to the tread pattern of the Michelin XDR 2 and Michelin XDR tires. Additional improvements in tread cuts and tread fatigue anticipated because of 17 degrees F lower tread operating temperature and corrosion-isolating cables. Actual results may vary.

⁴ Compared to Michelin 33.00R51 XDR 2 tire, average performance by mine site. Projected improvement in tire life based on field performance in customer mine sites over 29 months of the Michelin XDR 2, Michelin XDR 250 and Michelin XP 57, 40.00 R 57 and 53/80 R 63 tires that included individual design improvements incorporated into the Michelin XDR 3 tire.

⁵ Compared to Michelin 50/90R57 XDR 2 tire, average performance by mine site. Projected improvement in tire life based on field performance in customer mine sites over 29 months of the Michelin XDR 2, Michelin XDR 250 and Michelin XP 57, 40.00 R 57 and 53/80 R 63 tires that included individual design improvements incorporated into the Michelin XDR 3 tire.

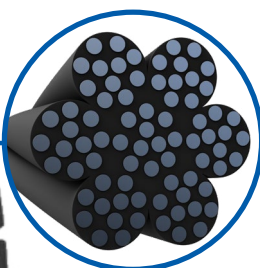
⁶ Compared to the Michelin 37.00R57 XDR 2 tire, average performance by mine site. Projected improvement in tire life based on field performance in customer mine sites over 29 months of the Michelin XDR 2, Michelin XDR 250 and Michelin XP 57, 40.00R57 and 53/80R63 tires that included individual design improvements incorporated into the Michelin XDR 3 tire.

Actual results may vary.

⁷ Without any compromise on TKPH.

MICHELIN XDR 3 27.00R49

**CHOOSE YOUR
BENEFIT**



*Steel encapsulated
by rubber prevents
corrosion spread,
thus increasing
aggression resistance.*



For Rigid Dump Trucks



**10% MORE
TIRE LIFE¹**

You can get more life out
of your tire thanks to a
revolutionary tread pattern



**10% MORE
LOAD CAPACITY²**

You can carry more because
of the *** rating and an
optimized tire design that
improves stress distribution
in the tire



**10%
MORE TKPH³**

You can go faster thanks
to a cooler tire with an
optimized tread design

TIRE SIZE: 27.00R49

¹ Compared to MICHELIN® XDR2 tires in ** usage. Projected improvement in tire life based on field performance in customer mine sites (over 29 months using the MICHELIN® XDR 2, MICHELIN® XDR 250, and MICHELIN® XP 57 tires in sizes 40.00R57 and 53/80R63 that include individual design improvements incorporated into the MICHELIN® XDR 3). Actual results may vary.

² Compared to the MICHELIN® XDR2 ** tire in size 27.00R49. Actual results may vary. (Source: 2017 MICHELIN® Earthmover Technical Databook).

³ Compared to the MICHELIN® XDR2 tires in size 27.00R49. Actual results may vary. (Source: 2017 MICHELIN® Earthmover Technical Databook)."

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
27.00R49 E4*** B4 TL	395114 24794	24 15.0	528 328.0	730 28.7	2730 107.5	1235 48.6	8257 325.1	90 113.4	892 35.1	-	19.50/4.0 [3.2]	19.50/4.0 [2.7]

Bar	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
Psi	51	58	65	73	80	87	94	102	109	116

Machine -
Use
kg - lbs

TRANSPORT (LOAD PER TIRE <= 27.25T)

STANDARD	16850	18550	20300	22050	24000	25500	27250
STANDARD	37150	40895	44755	48610	52910	56220	60075

Machine -
Use
kg - lbs

TRANSPORT (LOAD PER TIRE > 27.25T)

STANDARD								29000	30000	32100
STANDARD								63935	66140	70770

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/4.0 [3.2]	JOINT TORIQUE OR 3-49 HEYCO R1442 [553205]	-	-

27.00R49 E4*** A TL	667421 19529	20 12.0	432 268.0	730 28.7	2730 107.5	1235 48.6	8257 325.1	90 113.4	892 35.1	-	19.50/4.0 [3.2]	19.50/4.0 [2.7]
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Bar	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
Psi	51	58	65	73	80	87	94	102	109	116

Machine -
Use
kg - lbs

TRANSPORT (LOAD PER TIRE <= 27.25T)

STANDARD	16850	18550	20300	22050	24000	25500	27250
STANDARD	37150	40895	44755	48610	52910	56220	60075

Machine -
Use
kg - lbs

TRANSPORT (LOAD PER TIRE > 27.25T)

STANDARD								29000	30000	32100
STANDARD								63935	66140	70770

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/4.0 [3.2]	JOINT TORIQUE OR 3-49 HEYCO R1442 [553205]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
27.00R49 E4*** B TL		764857 22060	28 17.0	624 388.0	730 28.7	2730 107.5	1235 48.6	8257 325.1	90 113.4	892 35.1	-	19.50/4.0 [3.2]	19.50/4.0 [2.7]
Bar	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0			
Psi	51	58	65	73	80	87	94	102	109	116			
Machine - Use kg - lbs	TRANSPORT (LOAD PER TIRE <= 27.25T)												
STANDARD	16850	18550	20300	22050	24000	25500	27250						
STANDARD	37150	40895	44755	48610	52910	56220	60075						
Machine - Use kg - lbs	TRANSPORT (LOAD PER TIRE > 27.25T)												
STANDARD										29000	30000	32100	
STANDARD										63935	66140	70770	

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/4.0 [3.2]	JOINT TORIQUE OR 3-49 HEYCO R1442 [553205]	-	-

33.00R51 E4** B4 TL		089608 05115	20 12.0	620 385.0	921 36.3	3049 120.0	1365 53.7	9175 361.2	94 118.4	1074 42.3	-	24.00/5.0 [4.4]	24.00/5.0 [3.9] 26.00/5.0
Bar	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5				
Psi	51	58	65	73	80	87	94	102	109				
Machine - Use kg - lbs	TRANSPORT												
STANDARD	25550	28200	30800	33450	36600	38750	40100	41400	42700				
STANDARD	56330	62170	67900	73745	80690	85430	88405	91270	94135				

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	24.00/5.0 [4.4]	JOINT TORIQUE OR 4-51 R1479 [553210]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
33.00R51 E4** C4 TL	691960 78629	27 17.0	837 520.0	921 36.3	3049 120.0	1365 53.7	9175 361.2	94 118.4	1074 42.3	-	24.00/5.0 [4.4]	24.00/5.0 [3.9] 26.00/5.0

Bar	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
<i>Psi</i>	51	58	65	73	80	87	94	102	109

<i>Machine - Use kg - lbs</i>	TRANSPORT											
STANDARD	25550	28200	30800	33450	36600	38750	40100	41400	42700			
<i>STANDARD</i>	56330	62170	67900	73745	80690	85430	88405	91270	94135			

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	24.00/5.0 [4.4]	JOINT TORIQUE OR 4-51 R1479 [553210]	-	-

33.00R51 E4** B TL	884959 05483	24 15.0	744 462.0	921 36.3	3049 120.0	1365 53.7	9175 361.2	94 118.4	1074 42.3	-	24.00/5.0 [4.4]	24.00/5.0 [3.9] 26.00/5.0
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Bar	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
<i>Psi</i>	51	58	65	73	80	87	94	102	109

<i>Machine - Use kg - lbs</i>	TRANSPORT											
STANDARD	25550	28200	30800	33450	36600	38750	40100	41400	42700			
<i>STANDARD</i>	56330	62170	67900	73745	80690	85430	88405	91270	94135			

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	24.00/5.0 [4.4]	JOINT TORIQUE OR 4-51 R1479 [553210]	-	-

37.00R57 E4** B4 TL	112553 66263	20 12.0	848 527.0	1013 39.9	3459 136.2	1533 60.4	10363 408.0	102 128.5	1242 48.9	-	27.00/6.0 [5.2]	27.00/6.0 [4.6] 29.00/6.0
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Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
<i>Psi</i>	58	65	73	80	87	94	102	109

<i>Machine - Use kg - lbs</i>	TRANSPORT											
STANDARD	38550	42200	45800	49400	53000	54850	56650	58450				
<i>STANDARD</i>	84990	93035	100970	108910	116845	120925	124890	128860				

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	27.00/6.0 [5.2]	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
37.00R57 E4** C TL	168876 09655	30 19.0	-	1013 39.9	3459 136.2	1533 60.4	10363 408.0	102 128.5	1242 48.9	-	27.00/6.0 [5.2]	27.00/6.0 [4.6] 29.00/6.0

Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
Psi	58	65	73	80	87	94	102	109
Machine - Use kg - lbs	TRANSPORT							
STANDARD	38550	42200	45800	49400	53000	54850	56650	58450
STANDARD	84990	93035	100970	108910	116845	120925	124890	128860

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	27.00/6.0 [5.2]	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

37.00R57 E4** C4 TL		514466 86430	27 17.0	-	1013 39.9	3459 136.2	1533 60.4	10363 408.0	102 128.5	1242 48.9	-	27.00/6.0 [5.2]	27.00/6.0 [4.6] 29.00/6.0
Bar	4.0	4.5		5.0		5.5		6.0		6.5		7.0	7.5
Psi	58	65		73		80		87		94		102	109
Machine - Use kg - lbs	TRANSPORT												

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	27.00/6.0 [5.2]	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

37.00R57 E4** B TL		651752 18283	24 15.0	-	1013 39.9	3459 136.2	1533 60.4	10363 408.0	102 128.5	1242 48.9	-	27.00/6.0 [5.2]	27.00/6.0 [4.6] 29.00/6.0
Bar	4.0	4.5		5.0		5.5		6.0		6.5		7.0	7.5
Psi	58	65		73		80		87		94		102	109
Machine - Use kg - lbs	TRANSPORT												

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	27.00/6.0 [5.2]	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
40.00R57 E4** MB4 TL	133439 07678	20 12.0	960 597.0	1127 44.4	3580 140.9	1578 62.1	10714 421.8	98 123.5	1365 53.7	-	29.00/6.0 [5.7]	29.00/6.0 [5.2] 32.00/6.0

Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0
<i>Psi</i>	58	65	73	80	87	94	102

<i>Machine - Use kg - lbs</i>	TRANSPORT						
STANDARD	43650	47750	51850	55950	60000	62050	64100
<i>STANDARD</i>	96230	105270	114310	123350	132275	136795	141315

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	29.00/6.0 [5.7]	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

40.00R57 E4** MB TL	349567 40866	24 15.0	-	1127 44.4	3580 140.9	1758 69.2	10714 421.8	98 123.5	1365 53.7	-	29.00/6.0 [5.7]	29.00/6.0 [5.2] 32.00/6.0
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Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0
<i>Psi</i>	58	65	73	80	87	94	102

<i>Machine - Use kg - lbs</i>	TRANSPORT						
STANDARD	43650	47750	51850	55950	60000	62050	64100
<i>STANDARD</i>	96230	105270	114310	123350	132275	136795	141315

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	29.00/6.0 [5.7]	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

40.00R57 E4** MC4 TL	843163 54268	27 17.0	-	1127 44.4	3580 140.9	1578 62.1	10714 421.8	98 123.5	1365 53.7	-	29.00/6.0 [5.7]	29.00/6.0 [5.2] 32.00/6.0
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Bar	4.5	5.0	5.5	6.0	6.3	6.5	6.8	7.0	7.3
<i>Psi</i>	65	73	80	87	91	94	98	102	105

Machine - Use kg - lbs	TRANSPORT								
STANDARD	47750	51850	55950	60000	61400	62800	64200	65600	67000
STANDARD	105270	114310	123350	132275	135365	138450	141535	144625	147710

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	29.00/6.0 [5.7]	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
40.00R57 E4** MC TL	861130 02582	30 19.0	-	1127 44.4	3580 140.9	1578 62.1	10714 421.8	98 123.5	1365 53.7	-	29.00/6.0 [5.7]	29.00/6.0 [5.2] 32.00/6.0

Bar	4.5	5.0	5.5	6.0	6.3	6.5	6.8	7.0	7.3
<i>Psi</i>	65	73	80	87	91	94	98	102	105

Machine - Use kg - lbs	TRANSPORT								
STANDARD	47750	51850	55950	60000	61400	62800	64200	65600	67000
STANDARD	105270	114310	123350	132275	135365	138450	141535	144625	147710

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	29.00/6.0 [5.7]	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

50/90R57 E4** MB4 TL	283806 39092	20 12.0	-	1272 50.1	3822 150.5	1701 67.0	11513 453.3	98 123.5	1506 59.3	-	32.00/6.5	32.00/6.0 34.00/6.0 34.00/6.5
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Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
<i>Psi</i>	58	65	73	80	87	94	102	109

Machine - Use kg - lbs	TRANSPORT							
STANDARD	57800	62750	67700	72650	75320	78000	80660	83320
STANDARD	127425	138340	149255	160165	166050	171960	177825	183690

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	32.00/6.5	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

50/90R57 E4** MC4 TL	650162 09945	28 17.0	-	1272 50.1	3822 150.5	1701 67.0	11513 453.3	98 123.5	1506 59.3	-	32.00/6.5	32.00/6.0 34.00/6.0 34.00/6.5
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Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
<i>Psi</i>	58	65	73	80	87	94	102	109

Machine - Use kg - lbs	TRANSPORT							
STANDARD	57800	62750	67700	72650	75320	78000	80660	83320
STANDARD	127425	138340	149255	160165	166050	171960	177825	183690

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	32.00/6.5	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
50/90R57 E4** MB TL		744229 45751	24 15.0	-	1272 50.1	3822 150.5	1701 67.0	11513 453.3	98 123.5	1506 59.3	-	32.00/6.5	32.00/6.0 34.00/6.0 34.00/6.5
Bar	4.0	4.5		5.0		5.5		6.0		6.5		7.0	7.5
Psi	58	65		73		80		87		94		102	109
Machine - Use kg - lbs TRANSPORT													
STANDARD	57800	62750		67700		72650		75320		78000		80660	83320
STANDARD	127425	138340		149255		160165		166050		171960		177825	183690
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]			
	32.00/6.5			JOINT TORIQUE OR 4-57 R1481 [553211]			-			-			
53/80R63 E4** MC4 TL		031154 06229	28 17.0	-	1359 53.5	3804 149.8	1653 65.1	11324 445.8	110 138.6	1637 64.5	-	36.00/5.0 [5.5]	36.00/5.0 [5] 38.00/5.0 [5.5] 38.00/5.0 [5]
Bar	4.5	5.0		5.3		5.5		6.0		6.3		6.5	6.8
Psi	65	73		76		80		87		91		94	102
Machine - Use kg - lbs TRANSPORT													
STANDARD	67000	71000		75000		77500		80000		82500		83750	85010
STANDARD	147710	156530		165345		170860		176370		181880		184635	187415
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]			
	36.00/5.0 [5.5]			JOINT TORIQUE OR 4-63 R2053 [553056]			-			-			
53/80R63 E4** MB4 TL		176236 05149	20 12.0	-	1359 53.5	3804 149.8	1653 65.1	11324 445.8	110 138.6	1637 64.5	-	36.00/5.0 [5.5]	36.00/5.0 [5] 38.00/5.0 [5.5] 38.00/5.0 [5]
Bar	4.5	5.0		5.3		5.5		6.0		6.3		6.5	6.8
Psi	65	73		76		80		87		91		94	102
Machine - Use kg - lbs TRANSPORT													
STANDARD	67000	71000		75000		77500		80000		82500		83750	85010
STANDARD	147710	156530		165345		170860		176370		181880		184635	187415
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]			
	36.00/5.0 [5.5]			JOINT TORIQUE OR 4-63 R2053 [553056]			-			-			

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
53/80R63 E4** MB TL	302446 26004	24 15.0	-	1359 53.5	3804 149.8	1653 65.1	11324 445.8	110 138.6	1637 64.5	-	36.00/5.0 [5.5]	36.00/5.0 [5] 38.00/5.0 [5.5] 38.00/5.0 [5]

Bar	4.5	5.0	5.3	5.5	5.8	6.0	6.3	6.5	6.8	7.0
Psi	65	73	76	80	83	87	91	94	98	102

Machine - Use kg - lbs	TRANSPORT									
STANDARD	67000	71000	75000	77500	80000	82500	83750	85010	86820	88275
STANDARD	147710	156530	165345	170860	176370	181880	184635	187415	191405	194615

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]	
	36.00/5.0 [5.5]		JOINT TORIQUE OR 4-63 R2053 [553056]		-		-	

53/80R63 E4** MC TL			709804 99718	30 19.0	-	1359 53.5	3804 149.8	1653 65.1	11324 445.8	110 138.6	1637 64.5	-	36.00/5.0 [5.5]	36.00/5.0 [5] 38.00/5.0 [5.5] 38.00/5.0 [5]
Bar	4.5	5.0	5.3	5.5	5.8	6.0	6.3	6.5	6.8	7.0				
Psi	65	73	76	80	83	87	91	94	98	102				
Machine - Use kg - lbs	TRANSPORT													

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]	
	36.00/5.0 [5.5]		JOINT TORIQUE OR 4-63 R2053 [553056]		-		-	

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
59/80R63 E4** MB4 TL	430321 73530	20 12.0	-	1467 57.8	4030 158.7	-	-	110 138.6	1834 72.2	-	44.00/5.0 [6.0]	41.00/5.0 [6.0]

Bar	5.0	5.5	6.0	6.5	6.7	6.8
<i>Psi</i>	73	80	87	94	97	99

Machine - Use
kg - lbs TRANSPORT (41" RIM)

STANDARD	82920	89460	96000	98900	100000
<i>STANDARD</i>	182805	197225	211645	218035	220460

Machine - Use
kg - lbs TRANSPORT (44" RIM)

STANDARD	100000	102100	104000
<i>STANDARD</i>	220460	225090	229280

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	44.00/5.0 [6.0]	JOINT TORIQUE OR 4-63 R2053 [553056]	-	-

59/80R63 E4** MC4 TL	502804 83942	28 17.0	-	1467 57.8	4030 158.7	-	-	110 138.6	1834 72.2	-	44.00/5.0 [6.0]	41.00/5.0 [6.0]
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Bar	5.0	5.5	6.0	6.5	6.7	6.8
<i>Psi</i>	73	80	87	94	97	99

Machine - Use
kg - lbs TRANSPORT (41" RIM)

STANDARD	82920	89460	96000	98900	100000
<i>STANDARD</i>	182805	197225	211645	218035	220460

Machine - Use
kg - lbs TRANSPORT (44" RIM)

STANDARD	100000	102100	104000
<i>STANDARD</i>	220460	225090	229280

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	44.00/5.0 [6.0]	JOINT TORIQUE OR 4-63 R2053 [553056]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
59/80R63 E4** MB TL	774172 20068	24 15.0	-	1467 57.8	4030 158.7	-	-	110 138.6	1834 72.2	-	44.00/5.0 [6.0]	41.00/5.0 [6.0]
Bar	5.0	5.5			6.0		6.5		6.7		6.8	
Psi	73	80			87		94		97		99	
Machine - Use kg - lbs	TRANSPORT (41" RIM)											
STANDARD	82920	89460			96000		98900		100000			
STANDARD	182805	197225			211645		218035		220460			
Machine - Use kg - lbs	TRANSPORT (44" RIM)											
STANDARD					100000		102100				104000	
STANDARD					220460		225090				229280	
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]		Flap [CAI]			
	44.00/5.0 [6.0]			JOINT TORIQUE OR 4-63 R2053 [553056]			-		-			

IMPORTANT

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MICHELIN XDR 3+ MB4 & MB COMPOUND*



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AT LEAST

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WITH THE MB COMPOUND



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59/80R63 MB, 59/80R63 MB4

¹ Compared to the Michelin XDR 3 tire. Average performance by mine site. Projected improvement in
tire life based on the result of 13 field performance placement customer mine sites. Actual results may vary.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
40.00R57 E4** MB4 TL	151477 38891	20 12.0	960 597.0	1127 44.4	3580 140.9	1578 62.1	10714 421.8	98 123.5	1365 53.7	-	29.00/6.0 [5.7]	29.00/6.0 [5.2] 32.00/6.0

Bar	4.5	5.0	5.5	6.0	6.3	6.5	6.8	7.0	7.3
Psi	65	73	80	87	91	94	98	102	105
Machine - Use kg - lbs	TRANSPORT								
STANDARD	47750	51850	55950	60000	61400	62800	64200	65600	67000
STANDARD	105270	114310	123350	132275	135365	138450	141535	144625	147710

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	29.00/6.0 [5.7]	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

40.00R57 E4** MB TL		932077 10900	24 15.0	-	1127 44.4	3580 140.9	1758 69.2	10714 421.8	98 123.5	1365 53.7	-	29.00/6.0 [5.7]	29.00/6.0 [5.2] 32.00/6.0	
Bar	4.5	5.0	5.5		6.0		6.3		6.5		6.8		7.0	7.3
Psi	65	73	80		87		91		94		98		102	105
Machine - Use kg - lbs	TRANSPORT													

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	29.00/6.0 [5.7]	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

50/90R57 E4** MB TL		078316 78907	24 15.0	-	1255 49.4	3822 150.5	1701 67.0	11513 453.3	98 123.5	1506 59.3	-	32.00/6.5	32.00/6.0 34.00/6.0 34.00/6.5
Bar	4.0	4.5		5.0		5.5		6.0		6.5		7.0	7.5
Psi	58	65		73		80		87		94		102	109
Machine - Use kg - lbs	TRANSPORT												

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	32.00/6.5	JOINT TORIQUE OR 4-57 R1481 [553211]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
50/90R57 E4** MB4 TL	704562 84040	20 12.0	-	1255 49.4	3822 150.5	1701 67.0	11513 453.3	98 123.5	1506 59.3	-	32.00/6.5	32.00/6.0 34.00/6.0 34.00/6.5
Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5				
Psi	58	65	73	80	87	94	102	109				
Machine - Use kg - lbs	TRANSPORT											
STANDARD	57800	62750	67700	72650	75320	78000	80660	83320				
STANDARD	127425	138340	149255	160165	166050	171960	177825	183690				
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	32.00/6.5		JOINT TORIQUE OR 4-57 R1481 [553211]		-		-					
53/80R63 E4** MB4 TL	221719 00582	20 12.0	-	1359 53.5	3804 149.8	1653 65.1	11324 445.8	110 138.6	1637 64.5	-	36.00/5.0 [5.5]	36.00/5.0 [5] 38.00/5.0 [5.5] 38.00/5.0 [5]
Bar	4.5	5.0	5.3	5.5	5.8	6.0	6.3	6.5	6.8	7.0		
Psi	65	73	76	80	83	87	91	94	98	102		
Machine - Use kg - lbs	TRANSPORT											
STANDARD	67000	71000	75000	77500	80000	82500	83750	85010	86820	88275		
STANDARD	147710	156530	165345	170860	176370	181880	184635	187415	191405	194615		
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	36.00/5.0 [5.5]		JOINT TORIQUE OR 4-63 R2053 [553056]		-		-					
59/80R63 E4** MB4 TL	417433 16577	20 12.0	-	1467 57.8	4030 158.7	-	-	110 138.6	1834 72.2	-	44.00/5.0 [6.0]	41.00/5.0 [6.0]
Bar	5.0	5.5	6.0	6.5	6.7	6.8						
Psi	73	80	87	94	97	99						
Machine - Use kg - lbs	TRANSPORT (41" RIM)											
STANDARD	82920	89460	96000	98900	100000							
STANDARD	182805	197225	211645	218035	220460							
Machine - Use kg - lbs	TRANSPORT (44" RIM)											
STANDARD				100000	102100	104000						
STANDARD				220460	225090	229280						
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	44.00/5.0 [6.0]		JOINT TORIQUE OR 4-63 R2053 [553056]		-		-					

IMPORTANT

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TECHNICAL CHARACTERISTICS

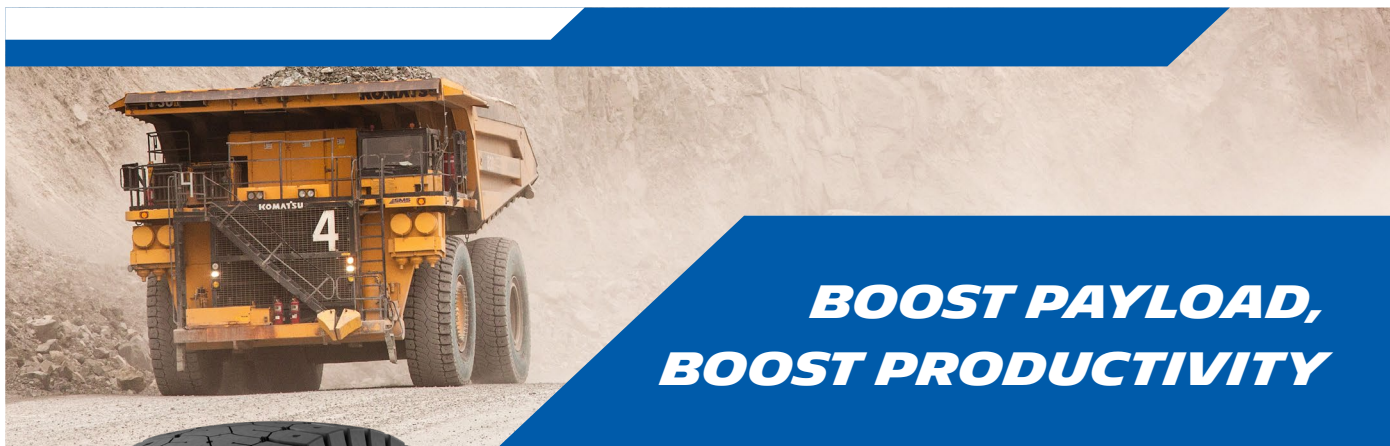
Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
59/80R63 E4** MB TL	535123 03414 44844	24 15.0	-	1467 57.8	4030 158.7	-	-	110 138.6	1834 72.2	-	44.00/5.0 [6.0]	41.00/5.0 [6.0]
Bar	5.0	5.5			6.0		6.5		6.7		6.8	
Psi	73	80			87		94		97		99	
Machine - Use kg - lbs	TRANSPORT (41" RIM)											
STANDARD	82920	89460			96000		98900		100000			
STANDARD	182805	197225			211645		218035		220460			
Machine - Use kg - lbs	TRANSPORT (44" RIM)											
STANDARD					100000		102100				104000	
STANDARD					220460		225090				229280	
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	44.00/5.0 [6.0]		JOINT TORIQUE OR 4-63 R2053 [553056]		-		-					

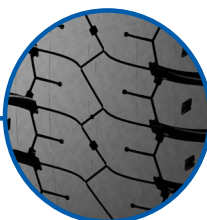
IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XDR 3 EXTRA LOAD

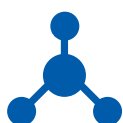


**BOOST PAYLOAD,
BOOST PRODUCTIVITY**



For Rigid Dump Trucks

INCREASE YOUR MAXIMUM
TRUCK PAYLOAD BY UP TO
12.6%¹ vs.
MICHELIN® XDR® 3 (TKPH=15%²)



REVOLUTIONARY COMPOUNDS

A slower wear rate thanks to a new mixing process



REVOLUTIONARY TREAD PATTERN

Interlocking blocks of rubber create better load distribution



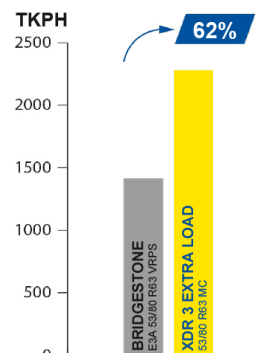
STRONGER CABLES, NEW PLYS, ROBUST STRUCTURE

Increased robustness with steel encapsulated by rubber. Better resistance to aggression and extra load conditions.

TIRE SIZE: 53/80R63

¹ Based on comparisons of maximum load capacity of the MICHELIN® XDR® 3 Extra Load to the MICHELIN® XDR® 3, size 53/80R63, as set forth in the 2018 Michelin Databook, taking as a reference the technical data of the Komatsu 930-E4 truck. Actual results may vary, and may be impacted by many factors, to include road conditions, weather, environment, driving habits, tire size, equipment and maintenance.

² Based on comparisons of the MICHELIN® XDR® 3 Extra Load to the MICHELIN® XDR® 3, as set forth in the 2018 MICHELIN® Databook.



MICHELIN XDR3 EXTRA LOAD

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
53/80R63 E4*** MB4 TL	637745 68989	20 12.0	-	1357 53.4	3806 149.8	1653 65.1	11324 445.8	110 138.6	1637 64.5	-	36.00/5.0 [5.5]	36.00/5.0 [5] 38.00/5.0 [5.5] 38.00/5.0 [5]
Bar	7.0			7.3			7.5					
Psi	102			105			109					
Machine - Use kg - lbs	TRANSPORT											
STANDARD	90000			92500			95000					
STANDARD	198415			203930			209440					
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]		
	36.00/5.0 [5.5]			JOINT TORIQUE OR 4-63 R2053 [553056]			-			-		
53/80R63 E4*** MB TL	664323 17762	24 15.0	-	1357 53.4	3806 149.8	1653 65.1	11324 445.8	110 138.6	1637 64.5	-	36.00/5.0 [5.5]	36.00/5.0 [5] 38.00/5.0 [5.5] 38.00/5.0 [5]
Bar	7.0			7.3			7.5					
Psi	102			105			109					
Machine - Use kg - lbs	TRANSPORT											
STANDARD	90000			92500			95000					
STANDARD	198415			203930			209440					
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]		
	36.00/5.0 [5.5]			JOINT TORIQUE OR 4-63 R2053 [553056]			-			-		
53/80R63 E4*** MC4 TL	781925 81977	28 17.0	-	1357 53.4	3806 149.8	1653 65.1	11324 445.8	110 138.6	1637 64.5	-	36.00/5.0 [5.5]	36.00/5.0 [5] 38.00/5.0 [5.5] 38.00/5.0 [5]
Bar	7.0			7.3			7.5					
Psi	102			105			109					
Machine - Use kg - lbs	TRANSPORT											
STANDARD	90000			92500			95000					
STANDARD	198415			203930			209440					
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]		
	36.00/5.0 [5.5]			JOINT TORIQUE OR 4-63 R2053 [553056]			-			-		

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XDR3 EXTRA LOAD

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
53/80R63 E4*** MC TL	812927 17699	30 19.0	-	1357 53.4	3806 149.8	1653 65.1	11324 445.8	110 138.6	1637 64.5	-	36.00/5.0 [5.5]	36.00/5.0 [5] 38.00/5.0 [5.5] 38.00/5.0 [5]
Bar	7.0			7.3			7.5					
Psi	102			105			109					
Machine - Use kg - lbs	TRANSPORT											
STANDARD	90000			92500			95000					
STANDARD	198415			203930			209440					
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]		
	36.00/5.0 [5.5]			JOINT TORIQUE OR 4-63 R2053 [553056]			-			-		

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XDR 3+ EXTRA LOAD MB4

**BOOST PAYLOAD.
BOOST PRODUCTIVITY.**



For Rigid Dump Trucks



**BUILT FOR
EXTRA-LOAD
CONDITIONS**

Stronger cables,² new plies and robust structure designed to deliver additional strength



DESIGNED TO HANDLE

- STEERING FORCE
- BRAKING FORCE

- BRAKING FORCE
- TORQUE TRANSMISSION

OPTIMIZED WEAR IN FRONT AND REAR AXLES

With Michelin multilayer technology

- Blue layer¹ is optimized for front axles for the first cycle of the tire's life
- Yellow layer¹ underneath is optimized for rear axles for the second cycle of the tire's life
- Tires are designed to be rotated to the rear axles to increase tire life



IMPROVED WEAR RESISTANCE

Second generation revolutionary compound—MB4—extends tire life by at least 4%³

TIRE SIZE: 53/80R63

¹ Blue and yellow tire colors depicted above are for dramatic purposes only. All Michelin tires are black in color.

² Based on comparisons of the Michelin XDR 3+ Extra Load tire to the Michelin XDR 3 tire, as set forth in the 2023 Michelin Databook.

³ Compared to the Michelin XDR 3 tire. Average performance by mine site. Projected improvement in tire life based on the result of 13 field performance placement customer mine sites. Actual results may vary.

MICHELIN XDR3+ EXTRA LOAD

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
53/80R63 E4*** MB4 TL	509797 06252	20 12.0	-	1357 53.4	3806 149.8	1653 65.1	11324 445.8	110 138.6	1637 64.5	-	36.00/5.0 [5.5]	36.00/5.0 [5] 38.00/5.0 [5.5] 38.00/5.0 [5]
Bar	7.0			7.3			7.5					
Psi	102			105			109					
Machine - Use kg - lbs	TRANSPORT											
STANDARD	90000			92500			95000					
STANDARD	198415			203930			209440					
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]		
	36.00/5.0 [5.5]			JOINT TORIQUE OR 4-63 R2053 [553056]			-			-		

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XDR 4 EXTRA LOAD



**BOOST PAYLOAD,
BOOST PRODUCTIVITY**

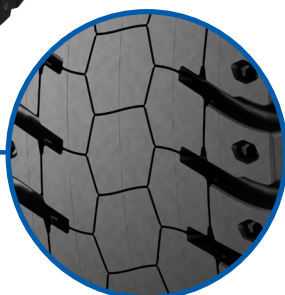


For Rigid Dump Trucks



**10% MORE
LOAD CAPACITY¹**

Optimized to carry
up to 115 tons,
thanks to new cables,
architecture and
larger size



**UP TO 2576
TKPH**



**INNOVATIVE
TREAD PATTERN**

Improved heat resistance,
adherence and wear profile²

TIRE SIZE: 59/80R63

¹ With the new Michelin 59/80R63 XDR 4 EXTRA LOAD tire, get 10% more load capacity, to carry up to 115 tons, due to new cables, architecture and larger size vs. the Michelin 59/80R63 XDR 3+ tire.

² The new Michelin 59/80R63 XDR 4 EXTRA LOAD tire was designed for improved heat resistance, adherence and wear profile, thanks to a new tread pattern vs. the Michelin 59/80R63 XDR 3+ tire.



MICHELIN XDR4 EXTRA LOAD

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
59/80R63 E4 TL	233050 17772	20 12.0	-	1495 58.9	4027 158.5	-	-	100 126.0	-	-	44.00/5.0 [6.0]	44.00/5.0 [5.5]

Bar	7.0	7.3	7.5
<i>Psi</i>	102	105	109

<i>Machine - Use kg - lbs</i>	TRANSPORT
-----------------------------------	------------------

STANDARD	109000	112000	115000
<i>STANDARD</i>	240305	246920	253530

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	44.00/5.0 [6.0]	-	-	-

59/80R63 E4 TL	265198 97806	24 15.0	-	1495 58.9	4027 158.5	-	-	100 126.0	-	-	44.00/5.0 [6.0]	44.00/5.0 [5.5]
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Bar	7.0	7.3	7.5
<i>Psi</i>	102	105	109

<i>Machine - Use kg - lbs</i>	TRANSPORT
-----------------------------------	------------------

STANDARD	109000	112000	115000
<i>STANDARD</i>	240305	246920	253530

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	44.00/5.0 [6.0]	-	-	-

59/80R63 E4*** TL	320785 06838	28 17.0	-	1495 58.9	4027 158.5	-	-	100 126.0	-	-	44.00/5.0 [6.0]	44.00/5.0 [5.5]
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Bar	7.0	7.3	7.5
<i>Psi</i>	102	105	109

<i>Machine - Use kg - lbs</i>	TRANSPORT
-----------------------------------	------------------

STANDARD	109000	112000	115000
<i>STANDARD</i>	240305	246920	253530

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	44.00/5.0 [6.0]	-	-	-

IMPORTANT

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MICHELIN XD GRIP



**BETTER GRIP,
BIGGER BENEFITS**



For Rigid Dump Trucks



UNSTOPPABLE GRIP CAPABILITIES

30% more lug edges¹ for
unstoppable grip in muddy
or loose conditions



AGGRESSION RESISTANCE FROM HIDDEN OBSTACLES²

New design with larger
contact patch, extra
protection and more
tread volume



EXTRA LOAD, LIFE AND SPEED

10% more life,³ load² or speed² vs.
the Michelin X-TRACTION tire

TIRE SIZE: 27.00R49

¹ Compared to the Michelin X-TRACTION™ tire in size 27.00R49 and based on internal measurement results. Actual results may vary.

² Compared to the Michelin X-TRACTION™ tire in size 27.00R49. Actual results may vary.

³ Compared to the Michelin X-TRACTION™ tire in ** usage in size 27.00R49 and based on field test measurements and FARO-method measurements certified by the Michelin Center of Technology. Actual results may vary.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
27.00R49 E4*** B TL		047262 38092	32 20.0	720 447.0	733 28.9	2726 107.3	-	-	79 99.5	892 35.1	-	19.50/4.0 [3.2]	19.50/4.0 [2.7]
Bar	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0			
Psi	51	58	65	73	80	87	94	102	109	116			
Machine - Use kg - lbs	TRANSPORT (LOAD PER TIRE <= 27.25T)												
STANDARD	16850	18550	20300	22050	24000	25500	27250						
STANDARD	37150	40895	44755	48610	52910	56220	60075						
Machine - Use kg - lbs	TRANSPORT (LOAD PER TIRE > 27.25T)												
STANDARD										29000	30000	32100	
STANDARD										63935	66140	70770	

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/4.0 [3.2]	JOINT TORIQUE OR 3-49 HEYCO R1442 [553205]	-	-

27.00R49 E4*** B4 TL			349151 17563	28 17.0	624 388.0	733 28.9	2726 107.3	-	-	79 99.5	892 35.1	-	19.50/4.0 [3.2]	19.50/4.0 [2.7]
Bar	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0				
Psi	51	58	65	73	80	87	94	102	109	116				
Machine - Use kg - lbs	TRANSPORT (LOAD PER TIRE <= 27.25T)													
STANDARD	16850	18550	20300	22050	24000	25500	27250							
STANDARD	37150	40895	44755	48610	52910	56220	60075							
Machine - Use kg - lbs	TRANSPORT (LOAD PER TIRE > 27.25T)													
STANDARD											29000	30000	32100	
STANDARD											63935	66140	70770	

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/4.0 [3.2]	JOINT TORIQUE OR 3-49 HEYCO R1442 [553205]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION			CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
27.00R49 E4*** A4 TL			527661 07858	20 12.0	432 268.0	733 28.9	2726 107.3	-	-	79 99.5	892 35.1	-	19.50/4.0 [3.2]	19.50/4.0 [2.7]
Bar	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0				
Psi	51	58	65	73	80	87	94	102	109	116				
Machine - Use kg - lbs	TRANSPORT (LOAD PER TIRE <= 27.25T)													
STANDARD	16850	18550	20300	22050	24000	25500	27250							
STANDARD	37150	40895	44755	48610	52910	56220	60075							
Machine - Use kg - lbs	TRANSPORT (LOAD PER TIRE > 27.25T)													
STANDARD											29000	30000	32100	
STANDARD											63935	66140	70770	
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]				
	19.50/4.0 [3.2]			JOINT TORIQUE OR 3-49 HEYCO R1442 [553205]			-			-				

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XHDT



**INCREASE
PRODUCTIVITY AND
LOWER YOUR OPERATING
COSTS**



For Rigid Dump Trucks



THE TKPH WINNER

Increased productivity¹

COMPOUND XHDT A

TKPH = 170 (23 KM/H MAX)

COMPOUND XHDT B

TKPH = 222 (30 KM/H MAX)



OPTIMIZED PERFORMANCE

Optimized tread pattern for
ideal traction and evacuation

Enhanced tread depth of
47 mm for long life

Built-up sidewall for protection
against sidewall penetrations

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
18.00R25 E4 A TL		199475 18573	23 14.0	170 106.0	496 19.5	1621 63.8	732 28.8	4896 192.8	47 1.9	587 23.1	-	13.00/2.5	15.00/2.5
Bar	4.0	4.3		4.5		5.0		6.0		7.0		7.5	
Psi	58	62		65		73		87		102		109	
Machine - Use kg - lbs	TRANSPORT												
STANDARD	6800	7100		7400		8000		9250		9850		10150	
STANDARD	14990	15655		16315		17635		20395		21715		22375	

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]	
	13.00/2.5		JOINT TORIQUE OR 3-25 SULLA R1437 [553200]		-		-	

18.00R25 E4 B TL		714571 23787	30 19.0	222 138.0	496 19.5	1621 63.8	732 28.8	4896 192.8	47 1.9	587 23.1	-	13.00/2.5	15.00/2.5
Bar	4.0	4.3		4.5		5.0		6.0		7.0		7.5	
Psi	58	62		65		73		87		102		109	
Machine - Use kg - lbs	TRANSPORT												
STANDARD	6800	7100		7400		8000		9250		9850		10150	
STANDARD	14990	15655		16315		17635		20395		21715		22375	

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]	
	13.00/2.5		JOINT TORIQUE OR 3-25 SULLA R1437 [553200]		-		-	

MICHELIN XK



**EXCELLENT
PROTECTION IN SEVERE
AND ABRASIVE CONDITIONS**



For Underground Mining Trucks and Underground Loaders



**EXCELLENT
PROTECTION
FROM EXTREME
JOBSITE HAZARDS**



**PROMOTES
STABILITY**

TIRE SIZES: 12.00R24 XK A **, 14.00R24 XK A ***, 17.5R25 XK A TL **

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
12.00R24 L3*** A TT	242110 06809	14 9.0	-	330 13.0	1244 49.0	569 22.4	3775 148.6	21 26.5	-	-	8.5	7.33V* 7.5 8.0
Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0		
<i>Psi</i>	29	36	44	51	58	65	73	80	87	102		
Machine - Use kg - lbs UNDERGROUND MINE MACHINE												
ALL AXLES	2050	2450	2750	3100	3450	3800	4150	4475	4800	5500		
<i>ALL AXLES</i>	4520	5400	6065	6835	7605	8380	9150	9865	10580	12125		

*OTHER APPROVED RIMS: 8.00V, 8.50V

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	8.5	JOINT CORNIERE G-25 ICERU R1237 [553012]	-	-

14.00R24 E3*** A TT	251590 06866	14 9.0	-	401 15.8	1380 54.3	638 25.1	4205 165.6	24 30.2	-	-	10.0	10.00W 9.0 9.00V
Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	8.0
<i>Psi</i>	29	36	44	51	58	65	73	80	87	94	102	116
Machine - Use kg - lbs TRANSPORT												
STAN- DARD					3750		4500	4850	5600	5700	5800	6150
<i>STAN- DARD</i>					8265		9920	10690	12345	12565	12785	13560
Machine - Use kg - lbs UNDERGROUND MINE MACHINE												
ALL AXLES	2950	3400	3850	4300	4800	5300	5750	6200	6550		7250	
<i>ALL AXLES</i>	6505	7495	8490	9480	10580	11685	12675	13670	14440		15985	

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
17.5R25 L3** A TL	263251 44735	14 9.0	-	481 18.9	1346 53.0	600 23.6	4045 159.3	25 31.5	-	-	14.00/1.5	
Bar	2.0	2.5	3.0		3.5		4.3	4.5		5.0		5.5
Psi	29	36	44		51		62	65		73		80

Machine - Use
kg - lbs

UNDERGROUND TRANSPORT MACHINE

ALL AXLES			4250		4750		5600		5800		6300	6700
ALL AXLES			9370		10470		12345		12785		13890	14770

Machine - Use
kg - lbs

LOADER

FRONT LADEN	4550	5100	5700		6250		7100		7350		7925	8500
FRONT LADEN	10030	11245	12565		13780		15655		16205		17470	18740
REAR UNLA- DEN	3650	4100	4550		5000		5700		5900		6350	6800
REAR UNLADEN	8045	9040	10030		11025		12565		13005		14000	14990

TUBELESS MOUNTING
ACCESSORIES AVAILABLE

Recommended rim

O-ring / Grommet
[CAI]

Tube
[CAI]

Flap
[CAI]

14.00/1.5

JOINT TORIQUE OR 2-25 HEUPO
R1438
[553201]

-

-

20.5R25 L3** A TL

263460
01565

14
9.0

-

560
22.1

1486
58.5

655
25.8

4447
175.1

28
35.3

-

-

17.00/1.7

17.00/2.0

Bar	2.0	2.5	3.0		3.5		4.3	4.5		5.0		5.5
Psi	29	36	44		51		62	65		73		80

Machine - Use
kg - lbs

UNDERGROUND TRANSPORT MACHINE

ALL AXLES			5600		6300		7300		7750		8250	9000
ALL AXLES			12345		13890		16095		17085		18190	19840

Machine - Use
kg - lbs

LOADER

FRONT LADEN	6250	7000	7700		8400		9500		9900		10700	11500
FRONT LADEN	13780	15430	16975		18520		20945		21825		23590	25355
REAR UNLA- DEN	5000	5600	6150		6700		7600		7900		8550	9180
REAR UNLADEN	11025	12345	13560		14770		16755		17415		18850	20240

TUBELESS MOUNTING
ACCESSORIES AVAILABLE

Recommended rim

O-ring / Grommet
[CAI]

Tube
[CAI]

Flap
[CAI]

17.00/1.7

JOINT TORIQUE OR 2-25 HEUPO
R1438
[553201]

-

-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN X-TRACTION



For Rigid Dump Trucks



INCREASED TIRE LIFE

Thanks to 10% greater rubber volume on the ground to be used¹



HIGH RESISTANCE TO AGGRESSION

Additional sidewall protection band increases sidewall impact resistance

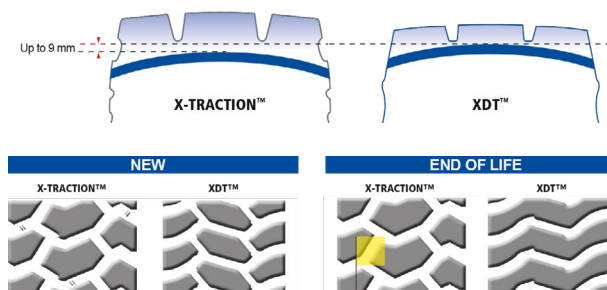


EXCEPTIONAL TRACTION AND GRIP

An aggressive, non-directional, open, deep tread pattern. Massive, widely-spaced tread blocks. Excellent self-cleaning capabilities.



Up to 15% deeper tread pattern²



Worn out tire still keeping stable lug/void ratio.

¹ Internal comparison between the Michelin® X-Traction and the Michelin® XDT™, measurements certified by the Michelin® Center or technology, results may varies according to the tire dimensions.

² Internal comparison between the Michelin® X-Traction and the Michelin® XDT™, see Michelin Earthmover Databook 2019.

MICHELIN X-TRACTION RD

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION			CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
27.00R49 E4** B4 TL			166905 68679	26 16.0	567 352.0	743 29.3	2737 107.8	1234 48.6	8262 325.3	81 102.0	892 35.1	-	19.50/4.0 [3.2]	19.50/4.0 [2.7] 22.00/4.0
Bar	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0				
Psi	51	58	65	73	80	87	94	102	109	116				
Machine - Use kg - lbs	TRANSPORT													
STANDARD	16850	18550	20300	22050	24000	25500	27250	28100	29000	29850				
STANDARD	37150	40895	44755	48610	52910	56220	60075	61950	63935	65810				
TUBELESS MOUNTING ACCESSORIES AVAILABLE			Recommended rim		O-ring / Grommet [CAI]			Tube [CAI]		Flap [CAI]				
			19.50/4.0 [3.2]		JOINT TORIQUE OR 3-49 HEYCO R1442 [553205]			-		-				
27.00R49 E4** A4 TL			495676 38957	18 11.0	392 244.0	743 29.3	2737 107.8	1234 48.6	8262 325.3	81 102.0	892 35.1	-	19.50/4.0 [3.2]	19.50/4.0 [2.7] 22.00/4.0
Bar	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0				
Psi	51	58	65	73	80	87	94	102	109	116				
Machine - Use kg - lbs	TRANSPORT													
STANDARD	16850	18550	20300	22050	24000	25500	27250	28100	29000	29850				
STANDARD	37150	40895	44755	48610	52910	56220	60075	61950	63935	65810				
TUBELESS MOUNTING ACCESSORIES AVAILABLE			Recommended rim		O-ring / Grommet [CAI]			Tube [CAI]		Flap [CAI]				
			19.50/4.0 [3.2]		JOINT TORIQUE OR 3-49 HEYCO R1442 [553205]			-		-				

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN X-TRACTION S RD

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
27.00R49 E3** B TL		689287 35019	35 22.0	763 474.0	746 29.4	2647 104.2	1190 46.9	7982 314.3	46 58.0	892 35.1	-	19.50/4.0 [3.2]	19.50/4.0 [2.7] 22.00/4.0
Bar	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0			
Psi	51	58	65	73	80	87	94	102	109	116			
Machine - Use kg - lbs	TRANSPORT												
STANDARD	16850	18550	20300	22050	24000	25500	27250	28100	29000	29850			
STANDARD	37150	40895	44755	48610	52910	56220	60075	61950	63935	65810			
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
		19.50/4.0 [3.2]		JOINT TORIQUE OR 3-49 HEYCO R1442 [553205]		-		-					

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XTRA LOAD GRIP A4 & B COMPOUND*



**SPEED OR LOAD,
CHOOSE YOUR
EFFICIENCY**



For Rigid Dump Trucks



**EXCELLENT GRIP^{1,2}
IN LOOSE GROUND
CONDITIONS**

**CORROSION-
PROOF CABLES**

Steel encapsulated by rubber prevents corrosion spread, thus increasing aggression resistance.



**BETTER
LONGEVITY**

Optimized contact patch with the ground



**8-11%
HIGHER PAY LOAD^{3,4}**



**UP TO
34 KILOMETERS
IN AN HOUR⁵**



**+5-8%
WEAR LIFE^{6,7}**

TIRE SIZES: 18.00R33 A4 & B*^{1,2,3,5,6}, 24.00R35 A4 & B*^{1,2,4,5,7}, 21.00R33 A4 & B

¹ Due to 30% more lug edges in contact with the ground.

² Based on customer feedback done on: 140 tires (field tests) in 10 countries by 23 customers during 2016 and 2017.

³ Compared to Bridgestone® VMTP tires, MICHELIN® XDT™ tires, and MICHELIN® X® TRACTION™ SC tires in size 18.00R33. Actual results may vary. (Sources: Bridgestone® 2018 OTR Databook and MICHELIN® 2017 Databook).

⁴ Compared to the same size in Bridgestone® VMTP and VRLS - Source Bridgestone® OTR Databook 2016 and MICHELIN® XDT™ tire, MICHELIN® X-TRACTION™ SC tire - Source MICHELIN® Databook 2017.

⁵ Compared to MICHELIN® X® TRACTION™ SC and MICHELIN® XDT™ B compound tires. Actual results may vary.

⁶ Compared to MICHELIN® XDT™ tires in size 18.00R33 and based on field test measurements and FARO-method measurements certified by the Michelin® Center of Technology. Actual results may vary.

⁷ Compared to same size in MICHELIN® XDT™ tire, field test measurements certified by the Michelin® Center of Technology, from 2015 to 2017.

*Please refer to the Earthmover Tire compounds section on page 147.

MICHELIN XTRA LOAD GRIP

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
18.00R33 E4 A4 TL	515155 09496	22 14.0	194 121.0	497 19.6	1872 73.7	-	-	60 2.4	598 23.5	-	13.00/2.5	
Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0			
<i>Psi</i>	58	65	73	80	87	94	102	109	116			

Machine - Use
kg - lbs

TRANSPORT (LOAD PER TIRE <= 10.9T)

STANDARD	7950	8700	9400	10150	10900
<i>STANDARD</i>	17525	19180	20725	22375	24030

Machine - Use
kg - lbs

TRANSPORT (LOAD PER TIRE > 10.9T)

STANDARD	11700	12150	12650	13100
<i>STANDARD</i>	25795	26785	27890	28880

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	13.00/2.5	JOINT TORIQUE OR 3-33 STRIX R1440 [553203]	-	-

18.00R33 E4 B TL	553513 12079	34 21.0	301 187.0	497 19.6	1872 73.7	-	-	60 2.4	598 23.5	-	13.00/2.5	
Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0			
<i>Psi</i>	58	65	73	80	87	94	102	109	116			

Machine - Use
kg - lbs

TRANSPORT (LOAD PER TIRE <= 10.9T)

STANDARD	7950	8700	9400	10150	10900
<i>STANDARD</i>	17525	19180	20725	22375	24030

Machine - Use
kg - lbs

TRANSPORT (LOAD PER TIRE > 10.9T)

STANDARD	11700	12150	12650	13100
<i>STANDARD</i>	25795	26785	27890	28880

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	13.00/2.5	JOINT TORIQUE OR 3-33 STRIX R1440 [553203]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XTRA LOAD GRIP

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION			CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
21.00R33 E4 B TL			523174 03975	34 21.0	384 239.0	565 22.2	2003 78.9	907 35.7	6064 238.7	66 2.6	701 27.6	-	15.00/3.0	
Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.3	7.5	8.0				
Psi	58	65	73	80	87	94	102	105	109	116				
Machine - Use kg - lbs TRANSPORT (LOAD PER TIRE <= 14T)														
STANDARD	9315	10250	11185	12125	13065	14000								
STANDARD	20535	22595	24660	26730	28805	30865								
Machine - Use kg - lbs TRANSPORT (LOAD PER TIRE > 14T)														
ALL AXLES										15000	15500	15865	16600	
ALL AXLES										33070	34170	34980	36595	
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]			
		15.00/3.0			JOINT TORIQUE OR 3-33 STRIX R1440 [553203]			-			-			
21.00R33 E4 A4 TL			843315 31734	22 14.0	248 154.0	565 22.2	2003 78.9	907 35.7	6064 238.7	66 2.6	701 27.6	-	15.00/3.0	
Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.3	7.5	8.0				
Psi	58	65	73	80	87	94	102	105	109	116				
Machine - Use kg - lbs TRANSPORT (LOAD PER TIRE <= 14T)														
STANDARD	9315	10250	11185	12125	13065	14000								
STANDARD	20535	22595	24660	26730	28805	30865								
Machine - Use kg - lbs TRANSPORT (LOAD PER TIRE > 14T)														
ALL AXLES										15000	15500	15865	16600	
ALL AXLES										33070	34170	34980	36595	
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]			
		15.00/3.0			JOINT TORIQUE OR 3-33 STRIX R1440 [553203]			-			-			

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XTRA LOAD GRIP

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION			CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
24.00R35 E4 B TL			302244 86007	34 21.0	503 313.0	666 26.2	2163 85.2	-	-	73 2.9	795 31.3	-	17.00/3.5	15.00/3.5
Bar	4.5	5.0	5.5	6.0	6.5	7.0	7.3	7.5	7.8	8.0				
Psi	65	73	80	87	94	102	105	109	112	116				
Machine - Use kg - lbs TRANSPORT (LOAD PER TIRE <= 18.5T)														
STANDARD	13950	15050	16300	17350	18500									
STANDARD	30755	33180	35935	38250	40785									
Machine - Use kg - lbs TRANSPORT (LOAD PER TIRE > 18.5T)														
STANDARD							19500	20000	20500	21000	21500			
STANDARD							42990	44090	45195	46295	47400			
TUBELESS MOUNTING ACCESSORIES AVAILABLE			Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]		
			17.00/3.5			JOINT TORIQUE OR 3-35 STRASS R1441 [553204]			-			FLAP 16-35 [551800]		
24.00R35 E4 A4 TL			559900 77075	22 14.0	320 199.0	666 26.2	2163 85.2	-	-	73 2.9	795 31.3	-	17.00/3.5	15.00/3.5
Bar	4.5	5.0	5.5	6.0	6.5	7.0	7.3	7.5	7.8	8.0				
Psi	65	73	80	87	94	102	105	109	112	116				
Machine - Use kg - lbs TRANSPORT (LOAD PER TIRE <= 18.5T)														
STANDARD	13950	15050	16300	17350	18500									
STANDARD	30755	33180	35935	38250	40785									
Machine - Use kg - lbs TRANSPORT (LOAD PER TIRE > 18.5T)														
STANDARD							19500	20000	20500	21000	21500			
STANDARD							42990	44090	45195	46295	47400			
TUBELESS MOUNTING ACCESSORIES AVAILABLE			Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]		
			17.00/3.5			JOINT TORIQUE OR 3-35 STRASS R1441 [553204]			-			FLAP 16-35 [551800]		

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XTRA LOAD PROTECT A4 & B COMPOUND*

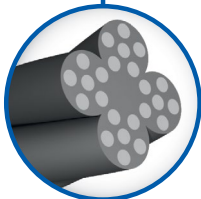


**EASY LIFE IN
HARD CONDITIONS**



For Rigid Dump Trucks

**EXCELLENT PROTECTION
IN HARD, SHARP
GROUND CONDITIONS**



**CORROSION-
PROOF CABLES**

Steel encapsulated by rubber prevents corrosion spread, thus increasing aggression resistance.



**8-11%
HIGHER PAY LOAD^{1,2}**



**MORE DISTANCE
IN AN HOUR³**



**+7-8%
WEAR LIFE^{4,5}**

TIRE SIZES: 18.00R33 A4 & B^{1,3,4}, 24.00R35 A4 & B^{2,3,5}, 21.00R33 A4 & B

¹ Compared to the Bridgestone® VMTP and VRLS tires and MICHELIN® X®QUARRY™ S tires in size 18.00R33. Actual results may vary. (Sources: Bridgestone® OTR 2018 Databook and MICHELIN® 2017 Databook.)

² Compared to the same size in Bridgestone® VMTP and VRLS - Source Bridgestone® OTR Databook 2016 and MICHELIN® X®QUARRY™ S - Source Michelin® Databook 2017

³ Compared to MICHELIN® X®QUARRY™ S tires. Actual results may vary.

⁴ Compared to MICHELIN® X®QUARRY™ S tires in size 18.00R33 and based on field tests measurements and FARO-method measurements certified by the Michelin® Center of Technology. Actual results may vary.

⁵ Compared to the same size in MICHELIN® X®QUARRY™ S, field tests measurements certified by the Michelin® Center of Technology, from 2015 to 2017. "

*Please refer to the Earthmover Tire compounds section on page 147.

MICHELIN XTRA LOAD PROTECT

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
18.00R33 E4 A4 TL	646057 89058	22 14.0	194 121.0	498 19.6	1888 74.3	857 33.7	5713 224.9	63 2.5	598 23.5	-	13.00/2.5	
Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0			
Psi	58	65	73	80	87	94	102	109	116			

Machine - Use
kg - lbs

TRANSPORT (LOAD PER TIRE <= 10.9T)

STANDARD	7950	8700	9400	10150	10900
STANDARD	17525	19180	20725	22375	24030

Machine - Use
kg - lbs

TRANSPORT (LOAD PER TIRE > 10.9T)

STANDARD	11700	12150	12650	13100
STANDARD	25795	26785	27890	28880

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	13.00/2.5	JOINT TORIQUE OR 3-33 STRIX R1440 [553203]	-	-

18.00R33 E4 B TL	769976 21909	34 21.0	301 187.0	498 19.6	1888 74.3	-	-	63 2.5	598 23.5	-	13.00/2.5	
Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0			
Psi	58	65	73	80	87	94	102	109	116			

Machine - Use
kg - lbs

TRANSPORT (LOAD PER TIRE <= 10.9T)

STANDARD	7950	8700	9400	10150	10900
STANDARD	17525	19180	20725	22375	24030

Machine - Use
kg - lbs

TRANSPORT (LOAD PER TIRE > 10.9T)

STANDARD	11700	12150	12650	13100
STANDARD	25795	26785	27890	28880

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	13.00/2.5	JOINT TORIQUE OR 3-33 STRIX R1440 [553203]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XTRA LOAD PROTECT

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
21.00R33 E4 A4 TL	167639 05749	22 14.0	248 154.0	565 22.2	1979 77.9	907 35.7	6064 238.7	54 2.1	701 27.6	-	15.00/3.0	
Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.3	7.5	8.0		
<i>Psi</i>	58	65	73	80	87	94	102	105	109	116		
Machine - Use kg - lbs TRANSPORT (LOAD PER TIRE <= 14T)												
STANDARD	9315	10250	11185	12125	13065	14000						
STANDARD	20535	22595	24660	26730	28805	30865						
Machine - Use kg - lbs TRANSPORT (LOAD PER TIRE > 14T)												
ALL AXLES							15000	15500	15865	16600		
ALL AXLES							33070	34170	34980	36595		
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	15.00/3.0		JOINT TORIQUE OR 3-33 STRIX R1440 [553203]		-		-					
21.00R33 E4 B TL	495016 35283	34 21.0	384 239.0	565 22.2	1979 77.9	907 35.7	6064 238.7	54 2.1	701 27.6	-	15.00/3.0	
Bar	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.3	7.5	8.0		
<i>Psi</i>	58	65	73	80	87	94	102	105	109	116		
Machine - Use kg - lbs TRANSPORT (LOAD PER TIRE <= 14T)												
STANDARD	9315	10250	11185	12125	13065	14000						
STANDARD	20535	22595	24660	26730	28805	30865						
Machine - Use kg - lbs TRANSPORT (LOAD PER TIRE > 14T)												
ALL AXLES							15000	15500	15865	16600		
ALL AXLES							33070	34170	34980	36595		
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	15.00/3.0		JOINT TORIQUE OR 3-33 STRIX R1440 [553203]		-		-					

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XTRA LOAD PROTECT

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
24.00R35 E4 A4 TL	388190 05723	22 14.0	320 199.0	670 26.4	2162 85.1	-	-	70 2.8	795 31.3	-	17.00/3.5	15.00/3.5

Bar	4.5	5.0	5.5	6.0	6.5	7.0	7.3	7.5	7.8	8.0
<i>Psi</i>	65	73	80	87	94	102	105	109	112	116

Machine - Use
kg - lbs TRANSPORT (LOAD PER TIRE <= 18.5T)

STANDARD	13950	15050	16300	17350	18500
<i>STANDARD</i>	30755	33180	35935	38250	40785

Machine - Use
kg - lbs TRANSPORT (LOAD PER TIRE > 18.5T)

STANDARD	19500	20000	20500	21000	21500
<i>STANDARD</i>	42990	44090	45195	46295	47400

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	17.00/3.5	JOINT TORIQUE OR 3-35 STRASS R1441 [553204]	-	FLAP 16-35 [551800]

24.00R35 E4 B TL	488798 67386	34 21.0	503 313.0	670 26.4	2162 85.1	-	-	70 2.8	795 31.3	-	17.00/3.5	15.00/3.5
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Bar	4.5	5.0	5.5	6.0	6.5	7.0	7.3	7.5	7.8	8.0
<i>Psi</i>	65	73	80	87	94	102	105	109	112	116

Machine - Use
kg - lbs TRANSPORT (LOAD PER TIRE <= 18.5T)

STANDARD	13950	15050	16300	17350	18500
<i>STANDARD</i>	30755	33180	35935	38250	40785

Machine - Use
kg - lbs TRANSPORT (LOAD PER TIRE > 18.5T)

STANDARD	19500	20000	20500	21000	21500
<i>STANDARD</i>	42990	44090	45195	46295	47400

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	17.00/3.5	JOINT TORIQUE OR 3-35 STRASS R1441 [553204]	-	FLAP 16-35 [551800]

IMPORTANT

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MICHELIN X SNOPLUS



**EXCEPTIONAL
TRACTION
ON SNOW AND ICE**



For Loaders, Cranes and Graders



ALL-SEASON USE

The wide, non-directional tread design makes this ideal tire for year-round use



LOW OPERATING COST

Drastic reduction in downtime: the Michelin all-steel casing design has less flats than traditional bias-ply tires

Excellent wear life



OUTSTANDING TRACTION ON SNOW AND ICE

The special rubber compound and aggressive lug design with added sipes provide maximum maneuverability in winter conditions and minimize the need for chains

TIRE SIZES: 14.00R24, 385/95R24, 17.5R25, 20.5R25, 23.5R25, 385/95R25, 445/95R25

MICHELIN X SNOPLUS

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
14.00R24 L2* TL	123861 53173	16 10.0	-	372 14.7	1364 53.7	545 21.5	3941 155.2	24 0.9	-	-	8.00TGSDC	9.00/1.5 DC 10.00VASDC
Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5				
<i>Psi</i>	29	36	44	51	58	65	73	80				
<i>Machine - Use kg - lbs</i>	GRADER											
ALL AXLES	2300	2725	3125	3550								
<i>ALL AXLES</i>	5070	6010	6890	7825								
<i>Machine - Use kg - lbs</i>	LOADER											
FRONT LADEN	3250	3750	4300	4800	5350	5900	6400	6900				
<i>FRONT LADEN</i>	7165	8265	9480	10580	11795	13005	14110	15210				
REAR UNLA- DEN	2600	3000	3450	3850	4300	4700	5100	5500				
<i>REAR UNLADEN</i>	5730	6615	7605	8490	9480	10360	11245	12125				
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	8.00TGSDC		JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]		-		-					

385/95R24 L2 170E TT	432272 36887	70 43.0	-	386 15.2	1358 53.5	635 25.0	4156 163.6	24 0.9	-	-	10.00W	10.0
Bar	5.0	6.0	7.0	8.0	9.0							
<i>Psi</i>	73	87	102	116	131							
<i>Machine - Use kg - lbs</i>	CRANE AND SIMILAR SPECIALIZED MACHINE											
30 KM/H	4860	5880	6460	7000	7800							
<i>20 MPH</i>	10715	12965	14240	15430	17195							
40 KM/H	4635	5610	6165	6675	7450							
<i>25 MPH</i>	10220	12370	13590	14715	16425							
50 KM/H	4410	5340	5865	6355	7100							
<i>30 MPH</i>	9720	11775	12930	14010	15655							
60 KM/H	4190	5070	5565	6030	6720							
<i>35 MPH</i>	9235	11175	12270	13295	14815							
65 KM/H	4020	4865	5345	5790	6450							
<i>40 MPH</i>	8865	10725	11785	12765	14220							
70 KM/H	3740	4525	4970	5385	6000							
<i>43 MPH</i>	8245	9975	10955	11870	13230							
80 KM/H	3085	3735	4100	4445	4950							
<i>50 MPH</i>	6805	8235	9040	9800	10915							
90 KM/H	2620	3170	3480	3770	4200							
<i>55 MPH</i>	5775	6990	7670	8310	9260							
100 KM/H	2245	2715	2980	3230	3600							
<i>62 MPH</i>	4950	5985	6570	7120	7935							

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
17.5R25 L2* TL	123871 99466	16 10.0	-	448 17.6	1342 52.8	576 22.7	3977 156.6	28 1.1	-	-	14.00/1.5	13.00/1.4 DC 14.00/1.3 DC 14.00/1.5 DC

Bar	2.0	2.5	3.0	3.5	4.3	4.5
<i>Psi</i>	29	36	44	51	62	65

Machine - Use
kg - lbs

GRADER

ALL AXLES	2800	3250	3650
<i>ALL AXLES</i>	6175	7165	8045

Machine - Use
kg - lbs

LOADER

FRONT LADEN	4550	5100	5700	6250	7100	7350
<i>FRONT LADEN</i>	10030	11245	12565	13780	15655	16205
REAR UNLADEN	3650	4100	4550	5000	5700	5900
<i>REAR UNLADEN</i>	8045	9040	10030	11025	12565	13005

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	14.00/1.5	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

20.5R25 L2* TL	123795 62408	16 10.0	-	534 21.0	1471 57.9	632 24.9	4362 171.7	31 1.2	-	-	17.00/1.7	17.00/2.0
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Bar	2.0	2.5	3.0	3.5	4.3	4.5
<i>Psi</i>	29	36	44	51	62	65

Machine - Use
kg - lbs

GRADER

ALL AXLES	3600	4125	4625
<i>ALL AXLES</i>	7935	9095	10195

Machine - Use
kg - lbs

LOADER

FRONT LADEN	6250	7000	7700	8400	9500	9900
<i>FRONT LADEN</i>	13780	15430	16975	18520	20945	21825
REAR UNLADEN	5000	5600	6150	6700	7600	7900
<i>REAR UNLADEN</i>	11025	12345	13560	14770	16755	17415

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	17.00/1.7	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
23.5R25 L2* TL	460452 74539	16 10.0	-	603 23.7	1610 63.4	687 27.1	4761 187.4	34 1.3	-	-	19.50/2.5	

Bar	2.0		2.5		3.0		3.5		4.0
<i>Psi</i>	29		36		44		51		58

Machine - Use
kg - lbs

GRADER

ALL AXLES	4875		5425		6000
<i>ALL AXLES</i>	10750		11960		13230

Machine - Use
kg - lbs

LOADER

FRONT LADEN	8100		9100		10150		11150		12150
<i>FRONT LADEN</i>	17855		20060		22375		24580		26785
REAR UNLADEN	6500		7300		8100		8900		9700
<i>REAR UNLADEN</i>	14330		16095		17855		19620		21385

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

385/95R25 E2 170E TL	705961 05893	70 43.0	-	388 15.3	1365 53.7	632 24.9	4163 163.9	25 1.0	-	-	9.50/1.7 CR	10.00/1.5 11.25/1.3
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Bar	5.0		6.0		7.0		8.0		9.0
<i>Psi</i>	73		87		102		116		131

Machine - Use
kg - lbs

CRANE AND SIMILAR SPECIALIZED MACHINE

30 KM/H	4860		5880		6460		7000		7800
<i>20 MPH</i>	10715		12965		14240		15430		17195
40 KM/H	4635		5610		6165		6675		7450
<i>25 MPH</i>	10220		12370		13590		14715		16425
50 KM/H	4410		5340		5865		6355		7100
<i>30 MPH</i>	9720		11775		12930		14010		15655
60 KM/H	4190		5070		5565		6030		6720
<i>35 MPH</i>	9235		11175		12270		13295		14815
65 KM/H	4020		4865		5345		5790		6450
<i>40 MPH</i>	8865		10725		11785		12765		14220
70 KM/H	3740		4525		4970		5385		6000
<i>43 MPH</i>	8245		9975		10955		11870		13230
80 KM/H	3085		3735		4100		4445		4950
<i>50 MPH</i>	6805		8235		9040		9800		10915
90 KM/H	2620		3170		3480		3770		4200
<i>55 MPH</i>	5775		6990		7670		8310		9260
100 KM/H	2245		2715		2980		3230		3600
<i>62 MPH</i>	4950		5985		6570		7120		7935

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	9.50/1.7 CR	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	CHAMBRE 24/25TAM VALVE 1837 [101781]	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
445/95R25 E2 177E TL	123857 20575	70 43.0	-	447 17.6	1486 58.5	687 27.1	4528 178.3	25 1.0	513 20.2	-	11.00/1.7 CR	11.25/2 DC635x280 CR
Bar	5.0		6.0			7.0		8.0			9.0	
Psi	73		87			102		116			131	
Machine - Use kg - lbs	CRANE AND SIMILAR SPECIALIZED MACHINE											
30 KM/H 20 MPH	5850 12895		6750 14880			7650 16865		8600 18960			9500 20945	
40 KM/H 25 MPH	5600 12345		6450 14220			7300 16095		8200 18080			9050 19950	
50 KM/H 30 MPH	5300 11685		6150 13560			6950 15320		7800 17195			8600 18960	
65 KM/H 40 MPH	4850 10690		5600 12345			6350 14000		7150 15765			7800 17195	
70 KM/H 43 MPH	4500 9920		5200 11465			5900 13005		6600 14550			7300 16095	
80 KM/H 50 MPH	3700 8155		4250 9370			4850 10690		5400 11905			6000 13230	
90 KM/H 55 MPH	3150 6945		3650 8045			4150 9150		4600 10140			5100 11245	
100 KM/H 62 MPH	2700 5950		3120 6880			3550 7825		3950 8710			4400 9700	

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	11.00/1.7 CR	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

IMPORTANT

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MICHELIN XTLA



**EXCEPTIONAL
TRACTION AND STABILITY
ON YIELDING TERRAIN**



For Loaders and Graders



EXCEPTIONAL TRACTION

With an aggressive, non-directional tread pattern, the MICHELIN® XTLA™ tire offers a wide contact area and delivers exceptional traction in a broad variety of conditions



GOOD STABILITY

The summit is reinforced to offer stability comparable to MICHELIN® XHA 2 tire



DRASTIC DOWNTIME REDUCTION

The Michelin all-steel casing design has less flats than traditional bias-ply tires

The design of the shoulder/sidewall intersection offers improved damage resistance

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
15.5R25 L2* A TL	123415 94687	16 10.0	-	397 15.6	1272 50.1	556 21.9	3795 149.4	26 1.0	-	-	12.00/1.3	12.00/1.3 DC 13.00/1.4 DC

Bar	2.0	2.5	3.0	3.5	4.0	4.5
<i>Psi</i>	29	36	44	51	58	65

Machine - Use
kg - lbs **GRADER**

ALL AXLES	2325	2650	3000
<i>ALL AXLES</i>	5125	5840	6615

Machine - Use
kg - lbs **LOADER**

FRONT LADEN	3700	4250	4800	5350	5800	6450
<i>FRONT LADEN</i>	8155	9370	10580	11795	12785	14220
REAR UNLADEN	2950	3400	3850	4300	4650	5150
<i>REAR UNLADEN</i>	6505	7495	8490	9480	10250	11355

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	12.00/1.3	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

17.5R25 L2* A TL	123425 04118	16 10.0	-	459 18.1	1337 52.6	574 22.6	3964 156.1	28 1.1	-	-	14.00/1.5	14.00/1.3 DC 14.00/1.5 DC
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Bar	2.0	2.5	3.0	3.5	4.3	4.5
<i>Psi</i>	29	36	44	51	62	65

Machine - Use
kg - lbs **GRADER**

ALL AXLES	2800	3250	3650
<i>ALL AXLES</i>	6175	7165	8045

Machine - Use
kg - lbs **LOADER**

FRONT LADEN	4550	5100	5700	6250	7100	7350
<i>FRONT LADEN</i>	10030	11245	12565	13780	15655	16205
REAR UNLADEN	3650	4100	4550	5000	5700	5900
<i>REAR UNLADEN</i>	8045	9040	10030	11025	12565	13005

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	14.00/1.5	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
20.5R25 L2* A TL	123435 21430 09122	16 10.0	-	532 20.9	1480 58.3	637 25.1	4391 172.9	31 1.2	-	-	17.00/1.7	17.00/2.0

Bar	2.0	2.5	3.0	3.5	4.3	4.5
<i>Psi</i>	29	36	44	51	62	65

Machine - Use
kg - lbs

GRADER

ALL AXLES	3600	4125	4625
<i>ALL AXLES</i>	7935	9095	10195

Machine - Use
kg - lbs

LOADER

FRONT LADEN	6250	7000	7700	8400	9500	9900
<i>FRONT LADEN</i>	13780	15430	16975	18520	20945	21825
REAR UNLADEN	5000	5600	6150	6700	7600	7900
<i>REAR UNLADEN</i>	11025	12345	13560	14770	16755	17415

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	17.00/1.7	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

23.5R25 L2* A TL	123445 49977	16 10.0	-	596 23.5	1614 63.5	686 27.0	4766 187.6	34 1.3	-	-	19.50/2.5	
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Bar	2.0	2.5	3.0	3.5	4.0
<i>Psi</i>	29	36	44	51	58

Machine - Use
kg - lbs

GRADER

ALL AXLES	4875	5425	6000
<i>ALL AXLES</i>	10750	11960	13230

Machine - Use
kg - lbs

LOADER

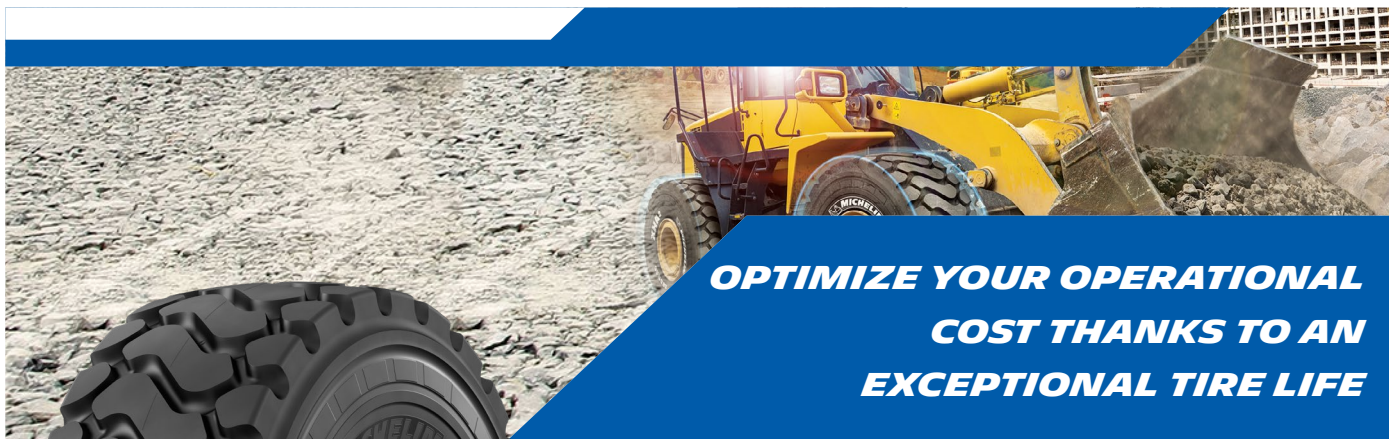
FRONT LADEN	8100	9100	10150	11150	12150
<i>FRONT LADEN</i>	17855	20060	22375	24580	26785
REAR UNLADEN	6500	7300	8100	8900	9700
<i>REAR UNLADEN</i>	14330	16095	17855	19620	21385

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	CHAMBRE 25WAM VALVE 1837 [101871]	FLAP 18-24/25 [551612]

IMPORTANT

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MICHELIN XHA 2



**OPTIMIZE YOUR OPERATIONAL
COST THANKS TO AN
EXCEPTIONAL TIRE LIFE**



For Loaders and Graders



DESIGNED TO BE RETREADED

Heat is the number one enemy of a tire. If your tire runs cooler it will last longer. The tire has been designed to limit tread movement and so limit the effects of heat to improve its retreadability.

MICHELIN® XHA 2® is up to 19%¹ cooler vs alternative producer 2



EXCELLENT LONGEVITY

+16% WEAR LIFE¹

Wear resistant rubber compound

More rubber to be worn² XHA 2® :
+ 9.5% volume of tread rubber
vs. alternative producer 1 and
+ 4.6% vs alternative producer 2

Optimized contact patch
with the ground



BETTER AGGRESSION RESISTANCE⁴

The Michelin tire is engineered with an architecture designed to absorb impact, minimizing damage, allowing your tire to continue working

MICHELIN® XHA 2® has more sidewall puncture resistance than alternative producer 1

¹ Measurement certified by the Michelin Center of Technology, conducted at the Mining Testing Center in Almeria, Spain, in July 2016. Thermal measurements taken using a thermal imaging camera. Comparison of MICHELIN® XHA 2® 26.5 R 25 against Alternative producer 1 & 2 26.5 R 25. All tires followed the same protocols and configuration (temperature, track), same number of tires tested. Test organized using a CAT 966 M, at 15km/h with 12000kg of load, at 4 bars pressure.

² Test certified by Michelin Center of Technology, conducted at the Mining Testing Center in Almeria, Spain, in July 2016. Comparison of MICHELIN® XHA 2® against alternative producer 1, same size. All tires followed the same protocols and configuration, same number of tires tested. Test organized using a CAT 966 M, at 15 km/h, with 12000 kg of load, at 4 bars pressure.

³ Compared to Premium competitors (alternative producer 1 & 2), field study in real life conditions made by Michelin for 5 years 2012-2017, on 170 tires in Eastern Europe, Western Europe, China and Asia South Pacific; same size (23.5 R 25, 26.5 R 25 and 29.5 R 25) and same usage.

⁴ Measurement certified by the Michelin Center of Technology, using XAO software, comparison of MICHELIN® 26.5 R 25 XHA 2® against alternative producer 1, same tire size. All tires followed the same protocols and configuration, same number of tires tested. Test organized using a CAT 966 M, at 15 km/h, with 12000 kg of load, at 4 bars pressure.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
17.5R25 L3* 176A2 TL	717546 48885	16 10.0	-	459 18.1	1342 52.8	583 23.0	3995 157.3	29 1.1	-	-	14.00/1.5	13.00/1.4 DC 14.00/1.5 DC

Bar	2.0	2.5	3.0	3.5	4.3	4.5
<i>Psi</i>	29	36	44	51	62	65

Machine - Use kg - lbs GRADER

ALL AXLES	2800	3250	3650
<i>ALL AXLES</i>	6175	7165	8045

Machine - Use kg - lbs LOADER

FRONT LADEN	4550	5100	5700	6250	7100	7350
<i>FRONT LADEN</i>	10030	11245	12565	13780	15655	16205
REAR UNLADEN	3650	4100	4550	5000	5700	5900
<i>REAR UNLADEN</i>	8045	9040	10030	11025	12565	13005

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	14.00/1.5	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

20.5R25 L3* 186A2 TL	899613 84298 69018	16 10.0	-	528 20.8	1486 58.5	644 25.4	4420 174.0	33 1.3	-	-	17.00/1.7	17.00/2.0
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Bar	2.0	2.5	3.0	3.5	4.3	4.5
<i>Psi</i>	29	36	44	51	62	65

Machine - Use kg - lbs GRADER

ALL AXLES	3600	4125	4625
<i>ALL AXLES</i>	7935	9095	10195

Machine - Use kg - lbs LOADER

FRONT LADEN	6250	7000	7700	8400	9500	9900
<i>FRONT LADEN</i>	13780	15430	16975	18520	20945	21825
REAR UNLADEN	5000	5600	6150	6700	7600	7900
<i>REAR UNLADEN</i>	11025	12345	13560	14770	16755	17415

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	17.00/1.7	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
23.5R25 L3* 195A2 TL	139147 65791	16 10.0	-	599 23.6	1612 63.5	690 27.2	4773 187.9	36 1.4	-	-	19.50/2.5	

Bar	2.0	2.5	3.0	3.5	4.0
<i>Psi</i>	29	36	44	51	58

Machine - Use
kg - lbs GRADER

ALL AXLES	4875	5425	6000
<i>ALL AXLES</i>	10750	11960	13230

Machine - Use
kg - lbs LOADER

FRONT LADEN	8100	9100	10150	11150	12150
<i>FRONT LADEN</i>	17855	20060	22375	24580	26785
REAR UNLADEN	6500	7300	8100	8900	9700
<i>REAR UNLADEN</i>	14330	16095	17855	19620	21385

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

26.5R25 L3** 209A2 TL	893825 65348	16 10.0	-	678 26.7	1732 68.2	740 29.1	5125 201.8	41 1.6	-	-	22.00/3.0	22.00/3.0 IF
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Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
<i>Psi</i>	29	36	44	51	58	65	73	80

Machine - Use
kg - lbs GRADER

ALL AXLES	5400	6400	7500
<i>ALL AXLES</i>	11905	14110	16535

Machine - Use
kg - lbs LOADER

FRONT LADEN	9300	10300	12150	13600	15000	16150	17350	18500
<i>FRONT LADEN</i>	20505	22710	26785	29985	33070	35605	38250	40785
REAR UNLA- DEN	7450	8250	9700	10900	12000	12900	13900	14800
<i>REAR UNLADEN</i>	16425	18190	21385	24030	26455	28440	30645	32630

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	22.00/3.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
29.5R25 L3** 216A2 TL	961307 82493	16 10.0	-	747 29.4	1860 73.2	795 31.3	5504 216.7	43 1.7	-	-	25.00/3.5	
Bar	2.0	2.5	3.0		3.5		4.0	4.5		5.0		5.5
Psi	29	36	44		51		58	65		73		80
Machine - Use kg - lbs	LOADER											
FRONT LADEN	11150	12300	14600		16300		18000	19450		20950		22400
FRONT LADEN	24580	27115	32185		35935		39685	42880		46185		49385
REAR UNLA- DEN	8900	9850	11700		13050		14400	15550		16750		17900
REAR UNLADEN	19620	21715	25795		28770		31745	34280		36925		39465
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	25.00/3.5		JOINT TORIQUE OR 3-25 SULLA R1437 [553200]		-		-					
775/65R29 L3* 206A2 TL	992646 84326	16 10.0	-	780 30.7	1735 68.3	-	-	44 1.7	-	-	24.00/3.5	25.00/3.5
Bar	3.0	3.5	4.0		4.3		4.5	4.8		5.0		5.3
Psi	44	51	58		62		65	69		73		76
Machine - Use kg - lbs	LOADER											
FRONT LADEN	11750	13250	15000		15500		16500	17000		17500		18500
FRONT LADEN	25905	29210	33070		34170		36375	37480		38580		40785
REAR UNLA- DEN	9400	10600	12000		12400		13200	13600		14000		14800
REAR UNLADEN	20725	23370	26455		27335		29100	29985		30865		32630
875/65R29 L3* 214A2 TL	936624 32190	16 10.0	-	882 34.7	1870 73.6	797 31.4	5528 217.6	49 1.9	-	-	27.00/3.0	27.00/3.5 28.00/3.5
Bar	2.0	2.5	3.0		3.5		4.0	4.3		4.5		4.8
Psi	29	36	44		51		58	62		65		69
Machine - Use kg - lbs	LOADER											
FRONT LADEN	9000	11250	13500		15750		18000	18970		20085		21200
FRONT LADEN	19840	24800	29760		34725		39685	41815		44280		46740
REAR UNLA- DEN	7200	9000	10800		12600		14400	15175		16065		16960
REAR UNLADEN	15875	19840	23810		27780		31745	33455		35420		37390
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	27.00/3.0		JOINT TORIQUE OR 3-29 SULKY R1439 [553202]		-		-					

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XLD 65



**OPTIMIZE YOUR
OPERATIONAL COST THANKS
TO AN EXCEPTIONAL TIRE LIFE**



For Loaders and Graders



HIGHER FOOTPRINT

Up to 49% more tread rubber¹ to protect your tire and insure its retreadability

Better traction on mixed soil



HIGHER AIR VOLUME

Better comfort for the operator with up to 10% or more shock absorption²

Better flotation in soft soils



FITS ON A WIDER RIM

Same diameter as an 80 series tire +14% footprint surface and greater number of edges²

¹ Internal comparison between 875/65 R 29 XHA 2° and 29.5 R 25 XHA 2° +49% and +45% between a 775/65 R 29 XHA 2° and 26.5 R 25 XHA 2°, measurements certified by the Michelin® Center of Technology.

² Internal comparison between 875/65 R 29 XHA 2° and 29.5 R 25 XHA 2°, measurements certified by the Michelin® Center of Technology.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
550/65R25 L3* TL		123570 86785	16 10.0	-	549 21.6	1400 55.1	600 23.6	4147 163.3	32 1.3	-	-	17.00/1.7	17.00/2.0
Bar	2.0	2.3	2.5	3.0	3.3	3.5	4.0	4.3	4.5	5.0			
Psi	29	33	36	44	47	51	58	62	65	73			
Machine - Use kg - lbs	GRADER												
ALL AXLES	2940	3210	3480	4020	4290	4560	5100						
ALL AXLES	6480	7075	7670	8865	9460	10055	11245						
Machine - Use kg - lbs	LOADER												
FRONT LADEN	4900	5350	5800	6700	7150	7600	8500	8950	9400	10300			
FRONT LADEN	10805	11795	12785	14770	15765	16755	18740	19730	20725	22710			
REAR UN-LADEN	3925	4290	4650	5350	5720	6075	6800	7165	7525	8250			
REAR UNLA-DEN	8655	9460	10250	11795	12610	13395	14990	15795	16590	18190			

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	17.00/1.7	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

600/65R25 L3* TL		063799 82704	16 10.0	-	622 24.5	1429 56.3	617 24.3	4246 167.2	34 1.3	-	-	19.50/2.5	17.00/1.7 17.00/2.0
Bar	2.0	2.5		3.0		3.5		4.0		4.5		5.0	
Psi	29	36		44		51		58		65		73	
Machine - Use kg - lbs	GRADER												
ALL AXLES	3390	4005		4600									
ALL AXLES	7475	8830		10140									
Machine - Use kg - lbs	LOADER												
FRONT LADEN	5650	6675		7700		8725		9750		10725		11700	
FRONT LADEN	12455	14715		16975		19235		21495		23645		25795	
REAR UNLADEN	4520	5340		6160		6980		7800		8580		9360	
REAR UNLADEN	9965	11775		13580		15390		17195		18915		20635	

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/2.5	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims		
650/65R25 L3* TL		123820 90278	16 10.0	-	634 25.0	1498 59.0	637 25.1	4425 174.2	37 1.5	-	-	19.50/2.5			
Bar	2.0	2.5		3.0		3.5		4.0		4.5		5.0			
Psi	29	36		44		51		58		65		73			
Machine - Use kg - lbs		GRADER													
ALL AXLES	4100	4800		5500		6200		6900		7600		8300			
ALL AXLES	9040	10580		12125		13670		15210		16755		18300			
Machine - Use kg - lbs		LOADER													
FRONT LADEN	6700	7900		9100		10300		11500		12700		13900			
FRONT LADEN	14770	17415		20060		22710		25355		28000		30645			
REAR UNLADEN	5400	6350		7300		8250		9200		10150		11100			
REAR UNLADEN	11905	14000		16095		18190		20285		22375		24470			
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]				Tube [CAI]			Flap [CAI]				
	19.50/2.5			JOINT TORIQUE OR 3-25 SULLA R1437 [553200]				-			-				
750/65R25 L3* TL		123940 50629	16 10.0	-	747 29.4	1591 62.6	683 26.9	4714 185.6	41 1.6	-	-	24.00/3.0	22.00/3.0		
Bar	2.0	2.5		3.0		3.3		3.5		4.0		4.5		5.0	5.5
Psi	29	36		44		47		51		58		65		73	80
Machine - Use kg - lbs		GRADER													
ALL AXLES	5040	5830		6620		7020		7420		8210					
ALL AXLES	11110	12855		14595		15475		16360		18100					
Machine - Use kg - lbs		LOADER													
FRONT LADEN	8400	9720		11040		11700		12360		13680		15000		16320	17640
FRONT LADEN	18520	21430		24340		25795		27250		30160		33070		35980	38890
REAR UNLA-DEN	6725	7775		8825		9365		9900		10950		12000		13050	14100
REAR UNLA-DEN	14825	17140		19455		20645		21825		24140		26455		28770	31085
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]				Tube [CAI]			Flap [CAI]				
	24.00/3.0			JOINT TORIQUE OR 3-25 SULLA R1437 [553200]				-			-				

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims	
800/65R29 L3* TL		123059 45325	16 10.0	-	793 31.2	1818 71.6	790 31.1	5412 213.1	48 1.9	-	-	27.00/3.0	24.00/3.5	
Bar	2.0	2.5	3.0	3.5	4.0	4.3	4.5	5.0	5.5					
Psi	29	36	44	51	58	62	65	73	80					
Machine - Use kg - lbs	LOADER													
FRONT LADEN	10100	11800	13500	15200	16900	17500	18600	20300	22000					
FRONT LADEN	22265	26015	29760	33510	37260	38580	41005	44755	48500					
REAR UNLA- DEN	8100	9450	10800	12150	13500	14000	14900	16250	17600					
REAR UNLA- DEN	17855	20835	23810	26785	29760	30865	32850	35825	38800					
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]			
		27.00/3.0			JOINT TORIQUE OR 3-29 SULKY R1439 [553202]			-			-			

IMPORTANT

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MICHELIN XLD D1

Phase out from december 2024

**IMPROVE YOUR SURFACE
LOADER PRODUCTIVITY
AND SPEED IN DIFFICULT
CONDITIONS**



For Loaders, Dozers and Graders



EXCEPTIONAL GRIP

Open tread design provides mud evacuation. Angled lugs provide longitudinal adhesion for more efficient loading at the face.



GREAT PROTECTION

Reinforced belt package and customized compound dedicated to aggressive conditions



EXCEPTIONAL TIRE LIFE

*/** load and carry up to 14 KPH

TIRE SIZES: 26.5R25, 29.5R25, 35/65R33

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
26.5R25 L4* A TL	123495 70042	14 9.0	-	690 27.2	1803 71.0	780 30.7	5360 211.0	53 2.1	-	-	22.00/3.0	22.00/3.0 IF

Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
Psi	29	36	44	51	58	65	73	80

Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES			9000		10300		11200		12500		13200	14500
ALL AXLES			19840		22710		24690		27560		29100	31965

Machine - Use kg - lbs	LOADER							
FRONT LADEN	9300	10300	12150	13600	15000	16150	17350	18500
FRONT LADEN	20505	22710	26785	29985	33070	35605	38250	40785
REAR UNLA- DEN	7450	8250	9700	10900	12000	12900	13900	14800
REAR UNLADEN	16425	18190	21385	24030	26455	28440	30645	32630

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	22.00/3.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

29.5R25 L4* A TL	123741 90432	14 9.0	-	769 30.3	1906 75.0	821 32.3	5656 222.7	58 2.3	-	-	25.00/3.5	
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Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
Psi	29	36	44	51	58	65	73	80

Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE					
ALL AXLES	10900	12150	13600	15000	16000	17500
ALL AXLES	24030	26785	29985	33070	35275	38580

Machine - Use kg - lbs	LOADER							
FRONT LADEN	11150	12300	14600	16300	18000	19450	20950	22400
FRONT LADEN	24580	27115	32185	35935	39685	42880	46185	49385
REAR UNLA- DEN	8900	9850	11700	13050	14400	15550	16750	17900
REAR UNLADEN	19620	21715	25795	28770	31745	34280	36925	39465

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	25.00/3.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
35/65R33 L4** A TL	143231 33617	14 9.0	-	923 36.3	2056 80.9	899 35.4	6135 241.5	60 2.4	-	-	28.00/3.5	
Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5				
<i>Psi</i>	44	51	58	65	73	80	87	94				
<i>Machine - Use kg - lbs</i>	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES	13600	15500	17000	18500	20000	21800	23000	24300				
<i>ALL AXLES</i>	29985	34170	37480	40785	44090	48060	50705	53570				
<i>Machine - Use kg - lbs</i>	LOADER											
FRONT LADEN	16100	17700	19000	21200	23000	24300	25750	28000				
<i>FRONT LADEN</i>	35495	39020	41890	46740	50705	53570	56770	61730				
REAR UNLA- DEN	12900	14200	15200	16950	18400	19450	20600	22400				
<i>REAR UNLADEN</i>	28440	31305	33510	37370	40565	42880	45415	49385				
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	28.00/3.5		JOINT TORIQUE OR 3-25 SULLA R1437 [553200]		-		-					
35/65R33 SH4**** 225A8 TL	520986	14 9.0	320 199.0	927 36.5	2057 81.0	-	-	60 75.6	-	-	28.00/3.5	
Bar	5.0	5.5	6.0	6.5	7.0	7.5	8.0					
<i>Psi</i>	73	80	87	94	102	109	116					
<i>Machine - Use kg - lbs</i>	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES	20000	21200	23000	24300	25750	27250	29000					
<i>ALL AXLES</i>	44090	46740	50705	53570	56770	60075	63935					
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	28.00/3.5		-		-		-					

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XTXL

Phase out from december 2024

**INCREASE YOUR
PRODUCTIVITY THANKS
TO BETTER TIRE LIFE AND
LOAD CAPACITY**



For Loaders and Underground Machines

For more detail regarding the tire usage in the Block Handling application, please refer to the section: "Help with the use of Earthmover tires."



COOLING SYSTEM



DESIGNED TO
INCREASE TIRE
LIFE BY UP TO **10%¹**

Large rubber volume distributed
evenly over the whole sculpture

SIDEWALL PROTECTION

Reinforced sidewall,
increases shock and
abrasion resistance

Reinforced Steel
Crown Belt Package
for superior protection
against punctures and
impacts.



UP TO **20%**
INCREASED
RESISTANCE IN
AGGRESSIVE
CONDITIONS¹



UP TO **20%**
INCREASED LOAD
CAPACITY¹

Allows greater inflation
pressures and higher
load capacity



¹ Internal comparison between Michelin® XTXL and Michelin® XLD® D1 of the same dimension.
See Michelin Earthmover databook 2019.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION			CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
35/65R33 E4**** L4*** 229A2 TL			845075 46729	14 9.0	250 155.0	907 35.7	2026 79.8	887 34.9	6048 238.1	60 2.4	-	-	28.00/3.5	
Bar	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0				
Psi	44	58	65	73	80	87	94	102	109	116				
Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE													
ALL AXLES					20000	21200	23000	24300	25750	27250	29000			
ALL AXLES					44090	46740	50705	53570	56770	60075	63935			
Machine - Use kg - lbs	LOADER (LOAD PER TIRE <= 28T)													
FRONT LADEN	16100	19000	21200	23000	24300	25750	28000							
FRONT LADEN	35495	41890	46740	50705	53570	56770	61730							
Machine - Use kg - lbs	LOADER (LOAD PER TIRE > 28T)													
FRONT LADEN									30000	31500	32500			
FRONT LADEN									66140	69445	71650			
Machine - Use kg - lbs	LOADER (LOAD PER TIRE <= 28T)													
REAR UN-LADEN	12900	15200	16950	18400	19450	20600	22400							
REAR UNLA-DEN	28440	33510	37370	40565	42880	45415	49385							
Machine - Use kg - lbs	LOADER (LOAD PER TIRE > 28T)													
REAR UN-LADEN									24000	25200	26000			
REAR UNLA-DEN									52910	55555	57320			
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim				O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]			
	28.00/3.5				JOINT TORIQUE OR 3-33 STRIX R1440 [553203]			-			-			

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
35/65R33 E4 TL	970355 34351	-	250 155.0	907 35.7	2026 79.8	893 35.2	6063 238.7	60 2.4	-	-	28.00/3.5	
Bar	5.0	5.5		6.0		6.5		7.0		7.5		8.0
Psi	73	80		87		94		102		109		116
Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES	20000	21200		23000		24300		25750		27250		29000
ALL AXLES	44090	46740		50705		53570		56770		60075		63935

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	28.00/3.5	JOINT TORIQUE OR 3-33 STRIX R1440 [553203]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION			CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
26.5R25 E4**** L4*** 214A2 TL			039149 06534	14 9.0	180 112.0	687 27.1	1722 67.8	755 29.7	5143 202.5	54 68.0	-	-	22.00/3.0	22.00/3.0 IF
Bar	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0				
Psi	44	58	65	73	80	87	94	102	109	116				
Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE													
ALL AXLES	9000	11200	12500	13200	14500	15500	16500	17000	18000	19000				
ALL AXLES	19840	24690	27560	29100	31965	34170	36375	37480	39685	41890				
Machine - Use kg - lbs	LOADER (LOAD PER TIRE <= 18.5T)													
FRONT LADEN	10300	12850	14000	15000	16000	17000	18500							
FRONT LADEN	22710	28330	30865	33070	35275	37480	40785							
Machine - Use kg - lbs	LOADER (LOAD PER TIRE > 18.5T)													
FRONT LADEN								19500	20600	21200				
FRONT LADEN								42990	45415	46740				
Machine - Use kg - lbs	LOADER (LOAD PER TIRE <= 18.5T)													
REAR UN- LADEN	8240	10280	11200	12000	12800	13600	14800							
REAR UNLA- DEN	18165	22665	24690	26455	28220	29985	32630							
Machine - Use kg - lbs	LOADER (LOAD PER TIRE > 18.5T)													
REAR UN- LADEN								15600	16480	16960				
REAR UNLA- DEN								34390	36330	37390				
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]				
	22.00/3.0			JOINT TORIQUE OR 3-25 SULLA R1437 [553200]			-			-				

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
26.5R25 E4 TL		321951 81060	-	180 112.0	687 27.1	1722 67.8	763 30.0	5164 203.3	54 68.0	-	-	22.00/3.0	22.00/3.0 IF
Bar	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0			
Psi	44	58	65	73	80	87	94	102	109	116			
Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE												
ALL AXLES	9000	11200	12500	13200	14500	15500	16500	17000	18000	19000			
ALL AXLES	19840	24690	27560	29100	31965	34170	36375	37480	39685	41890			
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]			
	22.00/3.0			JOINT TORIQUE OR 3-25 SULLA R1437 [553200]			-			-			

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
29.5R25 E4**** L4*** 221A2 TL		427926 40734	14 9.0	220 137.0	775 30.5	1822 71.7	796 31.3	5435 214.0	59 74.3	-	-	25.00/3.5	
Bar	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0			
Psi	44	58	65	73	80	87	94	102	109	116			
Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE												
ALL AXLES	10900	13600	15000	16000	17500	18500	19500	20600	21800	23000			
ALL AXLES	24030	29985	33070	35275	38580	40785	42990	45415	48060	50705			
Machine - Use kg - lbs	LOADER (LOAD PER TIRE <= 22.4T)												
FRONT LADEN	12500	15500	17000	18000	19500	20600	22400						
FRONT LADEN	27560	34170	37480	39685	42990	45415	49385						
Machine - Use kg - lbs	LOADER (LOAD PER TIRE > 22.4T)												
FRONT LADEN								23600	24300	25750			
FRONT LADEN								52030	53570	56770			
Machine - Use kg - lbs	LOADER (LOAD PER TIRE <= 22.4T)												
REAR UN- LADEN	10000	12400	13600	14400	15600	16480	17920						
REAR UNLA- DEN	22045	27335	29985	31745	34390	36330	39505						
Machine - Use kg - lbs	LOADER (LOAD PER TIRE > 22.4T)												
REAR UN- LADEN								18880	19440	20600			
REAR UNLA- DEN								41625	42860	45415			
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]			
	25.00/3.5			JOINT TORIQUE OR 3-25 SULLA R1437 [553200]			-			-			

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
29.5R29 E4**** TL	512305 68037	-	220 137.0	775 30.5	1928 75.9	855 33.7	5783 227.7	63 79.4	-	-	25.00/3.5	24.00/3.5

Bar	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
<i>Psi</i>	44	58	65	73	80	87	94	102	109	116

Machine - Use
kg - lbs UNDERGROUND TRANSPORT MACHINE

ALL AXLES	11800	14500	16000	17000	18500	19500	20600	21800	23000	24300
<i>ALL AXLES</i>	26015	31965	35275	37480	40785	42990	45415	48060	50705	53570

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	25.00/3.5	JOINT TORIQUE OR 3-29 SULKY R1439 [553202]	-	-

35/65R33 E4 S TL	771025 91242	-	320 199.0	907 35.7	2026 79.8	893 35.2	6063 238.7	60 75.6	-	-	28.00/3.5	
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Bar	5.0	5.5	6.0	6.5	7.0	7.5	8.0
<i>Psi</i>	73	80	87	94	102	109	116

Machine - Use
kg - lbs UNDERGROUND TRANSPORT MACHINE

ALL AXLES	20000	21200	23000	24300	25750	27250	29000
<i>ALL AXLES</i>	44090	46740	50705	53570	56770	60075	63935

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	28.00/3.5	JOINT TORIQUE OR 3-33 STRIX R1440 [553203]	-	-

IMPORTANT

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MICHELIN 70/70 R 57 X MINE L4**



For Large Wheel Loaders



**EXCELLENT
PROTECTION &
WEAR RESISTANCE**

The steel cables found in the Michelin X MINE Radial tire provide a robust architecture, resulting in outstanding endurance under the harshest mining conditions.

RADIAL CONSTRUCTION



The first Radial tire constructed for the Komatsu WE2350/P&H L2350 large wheel loader.

TIRE SIZE: 70/70R57

Actual results may vary.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
70/70R57 L4** TL		684202 92660	7 4.0	-	1845 72.6	3983 156.8	-	-	99 124.7	-	-	60.00/6.0	
Bar	5.0	5.3			5.5		5.8		6.0		6.3		6.8
Psi	73	76			80		83		87		91		98
Machine - Use kg - lbs	LOADER												
FRONT LADEN	115000	118000			121000		125000		128500		132000		136000
FRONT LADEN	253530	260145			266760		275580		283295		291010		299830
REAR UNLADEN	92000	94400			96800		100000		102800		105600		108800
REAR UNLADEN	202825	208115			213405		220460		226635		232810		239865
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
		60.00/6.0		JOINT TORIQUE OR 4-57 R1481 [553211]		-		-					

IMPORTANT

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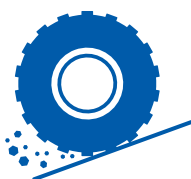
MICHELIN XLD D2

**IMPROVE YOUR SURFACE
LOADER PRODUCTIVITY
AND SPEED IN DIFFICULT
CONDITIONS**



For Loaders, Large Wheel Loaders and Wheel Dozers

**INCREASE YOUR
PRODUCTIVITY WITH
OUTSTANDING TIRE WEAR
AND GRIP, PROTECTION
FOR YOUR FACE-WORKING
LOADERS AND WHEEL
DOZERS**



EXCEPTIONAL GRIP

Open tread design provides mud evacuation. Angled lugs provide longitudinal adhesion for more efficient loading at the face.



GREAT PROTECTION

Reinforced belt package:
Customized compound
dedicated to aggressive
conditions (compound A4)



INCREASED LIFE

High tread depth
115 mm/144.9 32nd (L5)
provides outstanding
tire wear

TIRE SIZES: 45/65R39, 45/65R45

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
17.5R25 L5* A TL		123317 37608	10 6.0	-	454 17.9	1406 55.4	619 24.4	4206 165.6	63 2.5	-	-	14.00/1.5	
Bar	2.0	2.5		3.0		3.5		4.3		4.5		5.0	5.5
Psi	29	36		44		51		62		65		73	80
Machine - Use kg - lbs		GRADER											
ALL AXLES	2800	3250		3650									
ALL AXLES	6175	7165		8045									
Machine - Use kg - lbs		UNDERGROUND TRANSPORT MACHINE											
ALL AXLES				4250		4750		5600		5800		6300	6700
ALL AXLES				9370		10470		12345		12785		13890	14770
Machine - Use kg - lbs		LOADER											
FRONT LADEN	4550	5100		5700		6250		7100		7350			
FRONT LADEN	10030	11245		12565		13780		15655		16205			
REAR UNLA- DEN	3650	4100		4550		5000		5700		5900			
REAR UNLADEN	8045	9040		10030		11025		12565		13005			

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	14.00/1.5	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

20.5R25 L5* A TL		123325 79084	10 6.0	-	534 21.0	1530 60.2	674 26.5	4578 180.2	72 2.8	-	-	17.00/1.7	17.00/2.0
Bar	2.0	2.5		3.0		3.5		4.3		4.5		5.0	5.5
Psi	29	36		44		51		62		65		73	80
Machine - Use kg - lbs		GRADER											
ALL AXLES	3600	4125		4625									
ALL AXLES	7935	9095		10195									
Machine - Use kg - lbs		UNDERGROUND TRANSPORT MACHINE											
ALL AXLES				5600		6300		7300		7750		8250	9000
ALL AXLES				12345		13890		16095		17085		18190	19840
Machine - Use kg - lbs		LOADER											
FRONT LADEN	6250	7000		7700		8400		9500		9900			
FRONT LADEN	13780	15430		16975		18520		20945		21825			
REAR UNLA- DEN	5000	5600		6150		6700		7600		7900			
REAR UNLADEN	11025	12345		13560		14770		16755		17415			

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	17.00/1.7	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
23.5R25 L5* A TL	123326 58159	10 6.0	-	612 24.1	1662 65.4	722 28.4	4947 194.8	77 3.0	-	-	19.50/2.5	
Bar	2.0	2.5	3.0		3.5		4.0	4.5		5.0		5.5
Psi	29	36	44		51		58	65		73		80
Machine - Use kg - lbs GRADER												
ALL AXLES	4875	5425	6000									
ALL AXLES	10750	11960	13230									
Machine - Use kg - lbs UNDERGROUND TRANSPORT MACHINE												
ALL AXLES			7300		8250		9000	9750		10600		11500
ALL AXLES			16095		18190		19840	21495		23370		25355
Machine - Use kg - lbs LOADER												
FRONT LADEN	8100	9100	10150		11150		12150					
FRONT LADEN	17855	20060	22375		24580		26785					
REAR UNLA- DEN	6500	7300	8100		8900		9700					
REAR UNLADEN	14330	16095	17855		19620		21385					

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

26.5R25 L5* A TL	123094 33046	10 6.0	-	687 27.1	1800 70.9	778 30.6	5348 210.6	87 3.4	-	-	22.00/3.0	22.00/3.0 IF
Bar	2.0	2.5	3.0		3.5		4.0	4.5		5.0		5.5
Psi	29	36	44		51		58	65		73		80
Machine - Use kg - lbs UNDERGROUND TRANSPORT MACHINE												
ALL AXLES			9000		10300		11200	12500		13200		14500
ALL AXLES			19840		22710		24690	27560		29100		31965
Machine - Use kg - lbs LOADER												
FRONT LADEN	9300	10300	12150		13600		15000	16150		17350		18500
FRONT LADEN	20505	22710	26785		29985		33070	35605		38250		40785
REAR UNLA- DEN	7450	8250	9700		10900		12000	12900		13900		14800
REAR UNLADEN	16425	18190	21385		24030		26455	28440		30645		32630

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	22.00/3.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
29.5R25 L5* A TL	123278 28230	10 6.0	-	762 30.0	1900 74.8	821 32.3	5645 222.2	95 3.7	-	-	25.00/3.5	

Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
Psi	29	36	44	51	58	65	73	80

<i>Machine - Use kg - lbs</i>	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES			10900		12150		13600		15000		16000	17500
<i>ALL AXLES</i>			24030		26785		29985		33070		35275	38580

<i>Machine - Use kg - lbs</i>	LOADER											
FRONT LADEN	11150	12300	14600		16300		18000		19450		20950	22400
<i>FRONT LADEN</i>	24580	27115	32185		35935		39685		42880		46185	49385
REAR UNLA- DEN	8900	9850	11700		13050		14400		15550		16750	17900
<i>REAR UNLADEN</i>	19620	21715	25795		28770		31745		34280		36925	39465

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	25.00/3.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

35/65R33 L5** TL	592188 29247	10 6.0	-	926 36.5	2060 81.1	902 35.5	6150 242.1	97 3.8	-	-	28.00/3.5	
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Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
Psi	44	51	58	65	73	80	87	94

<i>Machine - Use kg - lbs</i>	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES	13600	15500	17000		18500		20000		21800		23000	24300
<i>ALL AXLES</i>	29985	34170	37480		40785		44090		48060		50705	53570

<i>Machine - Use kg - lbs</i>	LOADER											
FRONT LADEN	16100	17700	19000		21200		23000		24300		25750	28000
<i>FRONT LADEN</i>	35495	39020	41890		46740		50705		53570		56770	61730
REAR UNLA- DEN	12900	14200	15200		16950		18400		19450		20600	22400
<i>REAR UNLADEN</i>	28440	31305	33510		37370		40565		42880		45415	49385

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	28.00/3.5	JOINT TORIQUE OR 3-33 STRIX R1440 [553203]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
45/65R39 L5** 242A2 TL	519947 48376	10 6.0	-	1102 43.4	2580 101.6	1116 43.9	7668 301.9	115 144.9	-	-	36.00/4.5	32.00/4.5

Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
<i>Psi</i>	44	51	58	65	73	80	87	94

Machine - Use
kg - lbs

LOADER

FRONT LADEN	26500	30000	33500	36500	40000	42500	45000	47500
<i>FRONT LADEN</i>	58420	66140	73855	80470	88185	93695	99210	104720
REAR UNLA- DEN	21200	24000	26800	29200	32000	34000	36000	38000
<i>REAR UNLADEN</i>	46740	52910	59085	64375	70550	74955	79365	83775

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	36.00/4.5	JOINT TORIQUE OR 3-39 FUODI R1069 [553206]	-	-

45/65R45 L5** 244A2 TL	871341 79265	10 6.0	-	1147 45.2	2703 106.4	1180 46.5	8062 317.4	115 144.9	-	-	36.00/4.5	
Bar	4.0	4.5		5.0		5.5		6.0		6.5		
Psi	58	65		73		80		87		94		
Machine - Use	LOADER											

Machine - Use
kg - lbs

LOADER

FRONT LADEN	35500	38750	42500	45000	47500	51500
<i>FRONT LADEN</i>	78265	85430	93695	99210	104720	113540
REAR UNLADEN	28400	31000	34000	36000	38000	41200
<i>REAR UNLADEN</i>	62610	68345	74955	79365	83775	90830

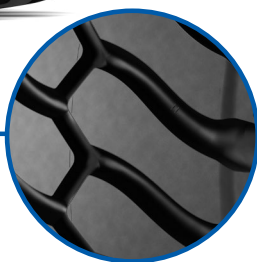
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	36.00/4.5	JOINT TORIQUE OR 9-8-45 R1580 [553214]	-	-

IMPORTANT

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MICHELIN XTRA POWER L4 A4/B4 COMPOUND

**BE READY TO MOVE
TONNAGE WITH HIGH
PROTECTION**



For Loaders/Wheeldozers



PRODUCTIVITY

Increased load & speed
at high temperatures for
aggressive conditions.



ROBUSTNESS

Reinforced crown and
sidewall resistance to
aggression.



COMFORT

Optimized response to
forward & reverse cycles
in multi-purpose usages.

MICHELIN XTRA POWER L4

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
35/65R33 229A2 TL	839667 80296	-	-	-	-	-	-	60 2.4	-	-		
35/65R33 L4*** 229A2 A4 TL	097314 82106	12 7.0	-	912 35.9	2085 82.1	899 35.4	6135 241.5	60 2.4	-	-	28.00/3.5	
Bar	3.0	3.5	4.0	4.5	5.0	5.5	5.8	6.3	6.8	7.0		
<i>Psi</i>	44	51	58	65	73	80	83	91	98	102		
<i>Machine - Use</i> kg - lbs LOADER (LOAD PER TIRE <= 28T)												
FRONT LADEN	17350	19250	21200	23000	25000	26500	28000					
<i>FRONT LADEN</i>	38250	42440	46740	50705	55115	58420	61730					
<i>Machine - Use</i> kg - lbs LOADER (LOAD PER TIRE > 28T)												
FRONT LADEN								30000	31500		32500	
<i>FRONT LADEN</i>								66140	69445		71650	
<i>Machine - Use</i> kg - lbs LOADER (LOAD PER TIRE <= 28T)												
REAR UN-LADEN	13895	15415	16950	18400	20000	21200	22400					
<i>REAR UNLA-DEN</i>	30640	33980	37370	40565	44095	46735	49385					
<i>Machine - Use</i> kg - lbs LOADER (LOAD PER TIRE > 28T)												
REAR UN-LADEN								23990	25190		25985	
<i>REAR UNLA-DEN</i>								52890	55530		57285	
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	28.00/3.5		JOINT TORIQUE OR 3-25 SULLA R1437 [553200]		-		-					

IMPORTANT

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MICHELIN XTRA POWER L4

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION			CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
35/65R33 L4*** 229A2 B4 TL			959644 60966	18 11.0	-	912 35.9	2085 82.1	899 35.4	6135 241.5	60 2.4	-	-	28.00/3.5	
Bar	3.0	3.5	4.0	4.5	5.0	5.5	5.8	6.3	6.8	7.0				
Psi	44	51	58	65	73	80	83	91	98	102				
Machine - Use kg - lbs	LOADER (LOAD PER TIRE <= 28T)													
FRONT LADEN	17350	19250	21200	23000	25000	26500	28000							
FRONT LADEN	38250	42440	46740	50705	55115	58420	61730							
Machine - Use kg - lbs	LOADER (LOAD PER TIRE > 28T)													
FRONT LADEN										30000	31500	32500		
FRONT LADEN										66140	69445	71650		
Machine - Use kg - lbs	LOADER (LOAD PER TIRE <= 28T)													
REAR UN- LADEN	13895	15415	16950	18400	20000	21200	22400							
REAR UNLA- DEN	30640	33980	37370	40565	44095	46735	49385							
Machine - Use kg - lbs	LOADER (LOAD PER TIRE > 28T)													
REAR UN- LADEN										23990	25190	25985		
REAR UNLA- DEN										52890	55530	57285		
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]				
	28.00/3.5			JOINT TORIQUE OR 3-25 SULLA R1437 [553200]			-			-				

IMPORTANT

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MICHELIN XTRA POWER L5



**TAKES ON FACEWORK
AT FULL POWER**



For Loaders/Wheelers



**MAXIMIZE
POWER,
MINIMIZE
RIM SLIP**

Redesigned bead optimizes
transfer of torque



**INCREASE
LOAD-CARRYING
CAPACITY¹**

Carry 16%² more load due
to increased *** rating



**ELIMINATE LUG
CRACKING**

Designed with new bridges
and curved sculpture



**GET MORE CROWN
PROTECTION²**

Designed with a
reinforced steel crown
belt package

¹ Increase in Load Carrying Capacity Requires Speed Reduction.

² Reference Michelin® Technical Earthmover Databook 2019. Internal comparison between Michelin® XLD® D2 35/65R33 and Michelin® X® TRA POWER™ L5 35/65R33.

MICHELIN XTRA POWER L5

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims	
26.5R25 L5** TL		226173 44305	10 6.0	-	691 27.2	1808 71.2	-	-	87 3.4	-	-	22.00/3.0	22.00/3.0 IF	
Bar	2.0	2.5		3.0		3.5		4.0		4.5		5.0	5.5	
Psi	29	36		44		51		58		65		73	80	
Machine - Use kg - lbs		LOADER												
FRONT LADEN	9300	10300		12150		13600		15000		16150		17350	18500	
FRONT LADEN	20505	22710		26785		29985		33070		35605		38250	40785	
REAR UNLA- DEN	7450	8250		9700		10900		12000		12900		13900	14800	
REAR UNLADEN	16425	18190		21385		24030		26455		28440		30645	32630	
29.5R25 TL		127302 19084	10 6.0	-	790 31.1	1910 75.2	-	-	94 3.7	-	-	25.00/3.5		
Bar	2.0	2.5		3.0		3.5		4.0		4.5		5.0	5.5	
Psi	29	36		44		51		58		65		73	80	
Machine - Use kg - lbs		LOADER												
FRONT LADEN	11150	12300		14600		16300		18000		19450		20950	22400	
FRONT LADEN	24580	27115		32185		35935		39685		42880		46185	49385	
REAR UNLA- DEN	8900	9850		11700		13050		14400		15550		16750	17900	
REAR UNLADEN	19620	21715		25795		28770		31745		34280		36925	39465	
875/65R29 L5** TL		858995 14624	9 6.0	-	873 34.4	1907 75.1	-	-	92 3.6	-	-	27.00/3.0	27.00/3.5 28.00/3.5	
Bar	3.0	4.0	4.3	4.8		5.0		5.3		5.5		5.8	6.0	6.3
Psi	44	58	62	69		73		76		80		83	87	91
Machine - Use kg - lbs		LOADER												
FRONT LADEN	13500	18500	19500	21200		21800		23000		23600		24300	25000	25750
FRONT LADEN	29760	40785	42990	46740		48060		50705		52030		53570	55115	56770
REAR UN- LADEN	10800	12600	14400	16960		17850		18750		19650		20500	21400	23000
REAR UNLA- DEN	23810	27780	31745	37390		39355		41335		43320		45195	47180	50705

IMPORTANT

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MICHELIN XTRA POWER L5

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION			CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
35/65R33 L5*** 229A2 TL			169990 51910	10 6.0	-	930 36.6	2058 81.0	-	-	95 3.7	-	-	28.00/3.5	
Bar	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0				
Psi	44	58	65	73	80	87	94	102	109	116				
Machine - Use kg - lbs	LOADER													
FRONT LADEN	16100	19000	21200	23000	24300	25750	28000	30000	31500	32500				
FRONT LADEN	35495	41890	46740	50705	53570	56770	61730	66140	69445	71650				
REAR UN- LADEN	12900	15200	16950	18400	19450	20600	22400	24000	25200	26000				
REAR UNLA- DEN	28440	33510	37370	40565	42880	45415	49385	52910	55555	57320				

IMPORTANT

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MICHELIN X MINE DEFEND



**IMPROVE
UNDERGROUND AND
BLOCK HANDLING
PRODUCTIVITY**



For Underground Mining Trucks and High Load Capacity Loaders



MAXIMIZE VEHICLE PRODUCTIVITY

Optimized load and speed
boost vehicle performance¹



SUPERIOR TRACTION & ADHESION¹

1. A center groove that increases grip
2. A new innovative tread pattern

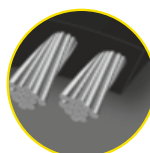


BLOCK HANDLING

The Michelin X MINE Defend tire is the right solution for block-handling applications with heavy load demands in Quarries.



4% IMPROVED TIRE LIFE¹



- 30% larger diameter cable
- 10% more tread rubber
- Same load, lower pressure

TIRE SIZES: 26.5R25, 29.5R25

¹Compared to the Michelin XTXL tire

MICHELIN X MINE DEFEND

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
26.5R25 E4**** L4*** 210A8 TL		318776 66524	14 9.0	180 112.0	707 27.8	1779 70.0	755 29.7	5143 202.5	57 71.8	-	-	22.00/3.0	22.00/3.0 IF
Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0				
Psi	44	51	58	65	73	80	87	94	102				
Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE												
ALL AXLES	11200	12500	13200	14500	15500	16500	17000	18000	19000				
ALL AXLES	24690	27560	29100	31965	34170	36375	37480	39685	41890				
Machine - Use kg - lbs	LOADER (LOAD PER TIRE <= 22.4T)												
FRONT LADEN	12850	14000	15000	16000	17000	18500							
FRONT LADEN	28330	30865	33070	35275	37480	40785							
Machine - Use kg - lbs	LOADER (LOAD PER TIRE > 22.4T)												
FRONT LADEN										19500	20600	21200	
FRONT LADEN										42990	45415	46740	
Machine - Use kg - lbs	LOADER (LOAD PER TIRE <= 22.4T)												
REAR UNLA- DEN	10280	11200	12000	12800	13600	14800							
REAR UNLA- DEN	22665	24690	26455	28220	29985	32630							
Machine - Use kg - lbs	LOADER (LOAD PER TIRE > 22.4T)												
REAR UNLA- DEN										15600	16480	16960	
REAR UNLA- DEN										34390	36330	37390	
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]		
		22.00/3.0			JOINT TORIQUE OR 3-25 SULLA R1437 [553200]			-			-		

IMPORTANT

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MICHELIN X MINE DEFEND

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
29.5R25 E4**** L4*** 217A8 TL		149968 60320	14 9.0	250 155.0	781 30.8	1895 74.6	796 31.3	5435 214.0	60 75.6	-	-	25.00/3.5	
Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0				
Psi	44	51	58	65	73	80	87	94	102				
Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE												
ALL AXLES	13600	15000	16000	17500	18500	19500	20600	21800	23000				
ALL AXLES	29985	33070	35275	38580	40785	42990	45415	48060	50705				
Machine - Use kg - lbs	LOADER												
FRONT LADEN	15500	17000	18000	19500	20600	22400	23600	24300	25750				
FRONT LADEN	34170	37480	39685	42990	45415	49385	52030	53570	56770				
REAR UNLADEN	12400	13600	14400	15600	16480	17920	18880	19440	20600				
REAR UNLADEN	27335	29985	31745	34390	36330	39505	41625	42860	45415				
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]		Flap [CAI]			
		25.00/3.5			JOINT TORIQUE OR 3-25 SULLA R1437 [553200]			-		-			

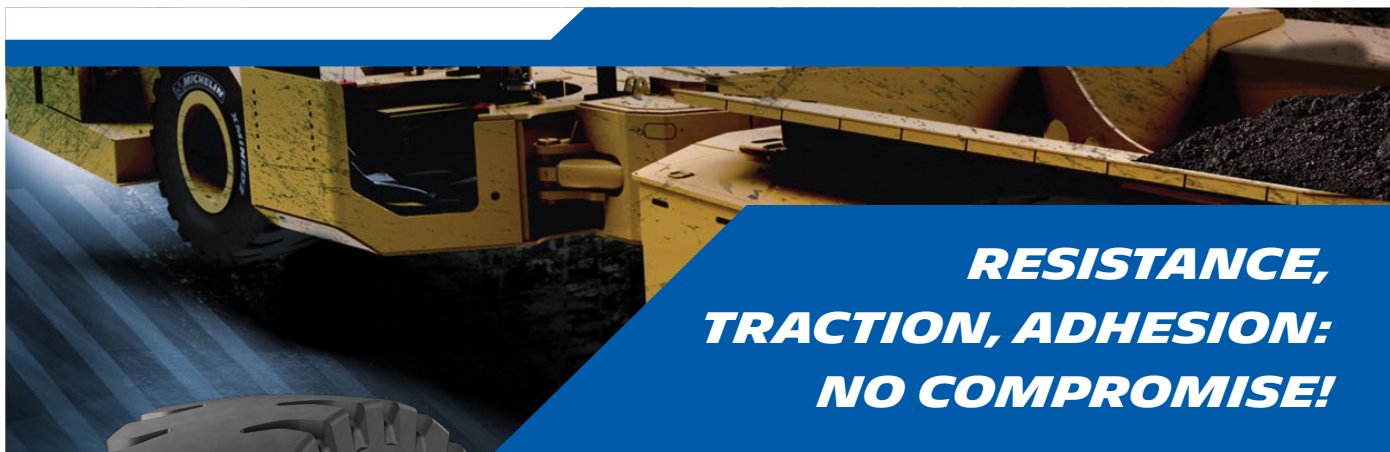
29.5R29 219A8 TL			490307 -	14 9.0	270 167.7	785 30.9	2001 78.7	855 33.6	5783 227.6	63 79.4	-	-	25.00/3.5	24.00/3.5
Bar	3.0	3.5	4.0	4.5	5.0	5.25	5.5	6.0	6.5	7.0				
Psi	44	51	58	65	73	77	80	87	94	102				
Machine - Use kg - lbs	GRADER													
ALL AXLES	9750	10900	12150	13200	14500	15000								
ALL AXLES	21495	24030	26786	29101	31967	33069								
Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE													
ALL AXLES	14500	16000	17000	18500	19500	20000	20600	21800	23000	24300				
ALL AXLES	31967	35274	37478	40785	42990	44092	45415	48060	50706	53572				
Machine - Use kg - lbs	LOADER													
FRONT LADEN	16500	18000	19500	20600	22400	23000	23600	25000	26500	27250				
FRONT LADEN	36376	39683	42990	45415	49383	50706	52029	55115	58422	60075				
REAR UNLADEN	13200	14400	15600	16480	17920	18400	18880	20000	21200	21800				
REAR UNLADEN	29101	31746	34392	36332	39507	40565	41447	44092	46738	48061				

Please note that the new size 29.5R29 will be available from February 2025.

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN X MINE D2



**RESISTANCE,
TRACTION, ADHESION:
NO COMPROMISE!**



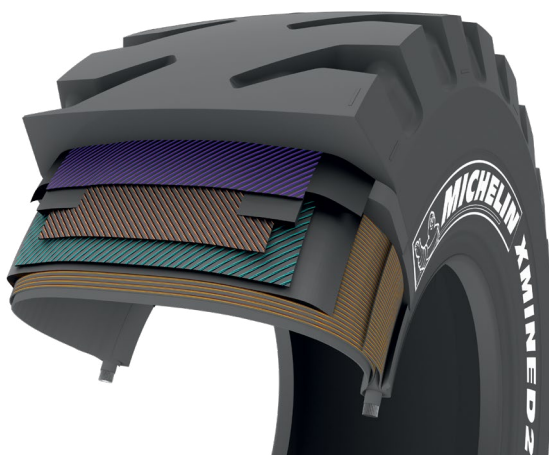
For Loaders, Skid-Steer Loaders,
Underground Mining Trucks and Underground Mining LHD Loaders



IMPACT & CUT RESISTANT

Thanks to the optimized compound, the reinforced protection ply and the tread depth slow tire wear and ensure this tire is exceptionally robust in standard conditions

REINFORCED PROTECTION PLY



ADHESION & TRACTION

The shoulder groove creates an optimized design for traction and evacuation, with a smooth central pattern for adhesion and protection

TIRE SIZES: 7.50R15, 8.25R15, 10.00R15, 350/65R15, 14.5R15, 400/80R15, 9.00R20, 12.00R20, 14.00R20, 450/70R20, 12.00R24, 17.5R25, 18.00R25, 20.5R25, 23.5R25, 26.5R25, 29.5R25, 29.5R29, 35/65R33

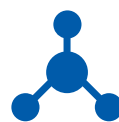
MICHELIN X MINE D2 L5 HR



**EXCELLENT
PRODUCTIVITY IN HARD
LOADING CONDITIONS**



For Loaders, Skid-Steer Loaders,
Underground Haulers and Underground Loaders



OPTIMIZED COMPOUND

Built to withstand hard
conditions and to slow
tire wear



IMPACT & CUT RESISTANT

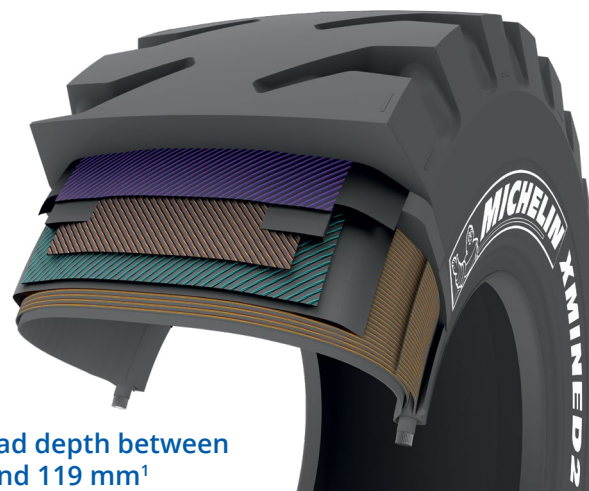
Due to the optimized
compound, the tread design
and the resilient casing

A RESILIENT CASING

Reinforced protection ply with
several steel belts creates a tire
that resists punctures

TIRE SIZES: 55/80R57, 60/80R57

¹ According to tire dimensions.



A high tread depth between
118 mm and 119 mm¹

MICHELIN X MINE D2 LC

**MOVE LONGER,
MOVE FASTER**



For Loaders, Skid-Steer Loaders,
Underground Haulers and Underground Loaders

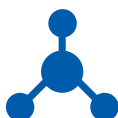
6 KM DISTANCE PER HOUR



**ROBUST TREAD
DESIGN**

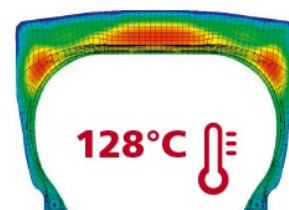
**RESISTANCE
TO SHOCK
RUPTURES,
CUTS AND
TREAD TEARING**

Thanks to a
substantial crown,
reinforced shoulders
and a protection band

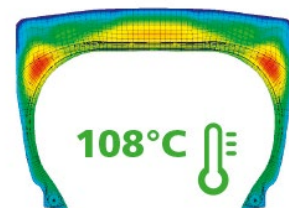


**INCREASE YOUR
PRODUCTIVITY**

The new MICHELIN® X MINE®
D2 LC tire's compound
reduces the temperature
of the tire in order to move
longer and faster.



MICHELIN® X MINE® D2 SR
at 10 km distance per hour



MICHELIN® X MINE® D2 LC
at 10 km distance per hour

TIRE SIZE: 50/65R51

MICHELIN X MINE D2 L5



**EXCELLENT PRODUCTIVITY
IN AGGRESSIVE LOADING
CONDITIONS**



For Loaders, Skid-Steer Loaders,
Underground Haulers and Underground Loaders



OPTIMIZED COMPOUND

Built to withstand hard
conditions and to slow
tire wear



IMPACT & CUT RESISTANT

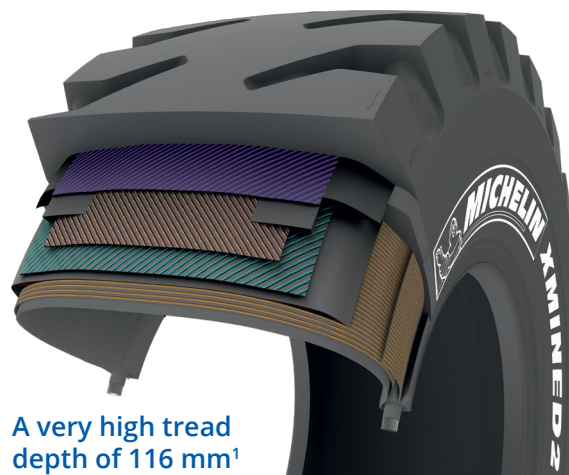
Thanks to the optimized
compound, the tread
design and the resilient
casing

A RESILIENT CASING

Reinforced protection ply
with several specific steel
belts constitute a
tire that is very resistant
to punctures

TIRE SIZES: 45/65R39, 45/65R45

¹ According to tire dimensions



A very high tread
depth of 116 mm¹

MICHELIN X MINE D2 EXTRA LOAD



**MORE LOAD¹,
A TOUGHER TIRE²**



For Quarry and Underground Mining LHD Loaders



**EXTRA
LOAD-CARRYING
CAPACITY**

(***TRA Load Range)
New bead area and stronger,
more robust architecture
increases load capacity by up
to 16%¹



**IMPROVED
TIRE LIFE**

When used at ** load, Michelin
X Mine D2 Extra Load has
improved aggression resistance²,
which results in more tire life



**INCREASED
SIDEWALL
PROTECTION²**

An innovative technology,
constituted by extra plies
in the sidewall, prevents
rock penetration

TIRE SIZE: 35/65R33

¹ The new Michelin 35/65R33 X Mine D2 EXTRA LOAD *** tires increase the load capacity by 16% from 28,000 kg to 32,500 kg.⁽¹⁾

⁽¹⁾ Based on comparisons of the Michelin X Mine D2** tire (2023 Michelin Databook).

² The new Michelin 35/65R33 X Mine D2 EXTRA LOAD *** tires improve aggression resistance due to new cables and reinforced sidewall plies.⁽¹⁾

⁽¹⁾ Compared to Michelin X Mine D2 ** tires. Actual results may vary.

MICHELIN X MINE D2

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
7.50R15 L5 TT	123342 23416	6 4.0	-	230 9.1	840 33.1	385 15.2	2551 100.4	46 58.0	-	-	6.0	5.5* 6.00S 6.5
Bar	3.0	3.5	3.8	4.0	4.5	5.0	5.5	6.0	7.0	8.0		
Psi	44	51	54	58	65	73	80	87	102	116		
Machine - Use kg - lbs	UNDERGROUND MINE MACHINE											
ALL AXLES	1675	1800	1875	1925	2025	2150	2250	2375	2600	2825		
ALL AXLES	3695	3970	4135	4245	4465	4740	4960	5235	5730	6230		
Machine - Use kg - lbs	LOADER											
FRONT LADEN	1850	2000	2075	2150	2250	2400	2500	2650	2900	3150		
FRONT LADEN	4080	4410	4575	4740	4960	5290	5510	5840	6395	6945		
REAR UN-LADEN	1475	1600	1650	1725	1800	1925	2000	2125	2325	2525		
REAR UNLA-DEN	3250	3525	3640	3805	3970	4245	4410	4685	5125	5565		

*OTHER APPROVED RIMS: B6.5

8.25R15 L5 TT	123352 22154	6 4.0	-	250 9.8	882 34.7	402 15.8	2680 105.5	48 60.5	-	-	6.5	6.0 7.0 B6.5
Bar	3.0	3.5	3.8	4.0	4.5	5.0	5.5	6.0	7.0	8.0		
Psi	44	51	54	58	65	73	80	87	102	116		
Machine - Use kg - lbs	UNDERGROUND MINE MACHINE											
ALL AXLES	1800	1975	2075	2150	2300	2425	2575	2700	2975	3250		
ALL AXLES	3970	4355	4575	4740	5070	5345	5675	5950	6560	7165		
Machine - Use kg - lbs	LOADER											
FRONT LADEN	2000	2200	2300	2400	2550	2700	2850	3000	3300	3600		
FRONT LADEN	4410	4850	5070	5290	5620	5950	6285	6615	7275	7935		
REAR UN-LADEN	1600	1750	1850	1925	2050	2150	2275	2400	2650	2875		
REAR UNLA-DEN	3525	3860	4080	4245	4520	4740	5015	5290	5840	6340		

IMPORTANT

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MICHELIN X MINE D2

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
10.00R15 L5 TT	123372 18686	6 4.0	-	295 11.6	910 35.8	411 16.2	2748 108.2	48 60.5	-	-	7.5	7.0
Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	8.0		
<i>Psi</i>	44	51	58	65	73	80	87	94	102	116		
<i>Machine - Use</i>	UNDERGROUND MINE MACHINE											
ALL AXLES	2150	2350	2525	2700	2875	3025	3150	3325	3500	3875		
<i>ALL AXLES</i>	4740	5180	5565	5950	6340	6670	6945	7330	7715	8545		
<i>Machine - Use</i>	LOADER											
FRONT LADEN	2400	2600	2800	3000	3200	3350	3500	3700	3900	4300		
<i>FRONT LADEN</i>	5290	5730	6175	6615	7055	7385	7715	8155	8600	9480		
REAR UNLADEN	1925	2075	2250	2400	2550	2675	2800	2965	3125	3450		
<i>REAR UNLADEN</i>	4245	4575	4960	5290	5620	5895	6175	6535	6890	7605		
14.5R15 L5 TL	123101 41368	6 4.0	-	380 15.0	894 35.2	408 16.1	2711 106.7	48 60.5	-	-	10.50	11.0 11.00BD 11.50
Bar	3.0	3.5	3.8	4.0	4.5	5.0	5.5	6.0	7.0	8.0		
<i>Psi</i>	44	51	54	58	65	73	80	87	102	116		
<i>Machine - Use</i>	UNDERGROUND MINE MACHINE											
ALL AXLES	2300	2575	2675	2800	3025	3250	3475	3700	4150	4600		
<i>ALL AXLES</i>	5070	5675	5895	6175	6670	7165	7660	8155	9150	10140		
<i>Machine - Use</i>	LOADER											
FRONT LADEN	2550	2850	2975	3100	3350	3600	3850	4100	4600	5100		
<i>FRONT LADEN</i>	5620	6285	6560	6835	7385	7935	8490	9040	10140	11245		
REAR UNLADEN	2050	2275	2375	2475	2675	2875	3075	3275	3675	4075		
<i>REAR UNLADEN</i>	4520	5015	5235	5455	5895	6340	6780	7220	8100	8985		

IMPORTANT

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MICHELIN X MINE D2

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
350/65R15 L5 TL		826683 85701	6 4.0	-	348 13.7	844 33.2	379 14.9	2543 100.1	36 45.4	-	-	11.50	10.50
Bar	3.0	3.5	3.8	4.0	4.5	5.0	5.5	6.0	7.0	8.0			
Psi	44	51	54	58	65	73	80	87	102	116			
Machine - Use kg - lbs	UNDERGROUND MINE MACHINE												
ALL AXLES	2160	2395	2510	2630	2835	3060	3215	3375	3780	4140			
ALL AXLES	4760	5280	5535	5795	6250	6745	7085	7440	8335	9125			
Machine - Use kg - lbs	LOADER												
FRONT LADEN	2400	2660	2790	2920	3150	3400	3570	3750	4200	4600			
FRONT LADEN	5290	5865	6150	6435	6945	7495	7870	8265	9260	10140			
REAR UN- LADEN	1920	2130	2230	2335	2520	2720	2855	3000	3360	3680			
REAR UNLA- DEN	4235	4690	4920	5150	5555	5995	6295	6615	7410	8115			
400/80R15 L5 TL		735466 41318	6 4.0	-	385 15.2	996 39.2	445 17.5	2996 118.0	34 42.8	-	-	11.50	
Bar	3.0	3.5	3.8	4.0	4.5	5.0	5.5	6.0	7.0	8.0			
Psi	44	51	54	58	65	73	80	87	102	116			
Machine - Use kg - lbs	UNDERGROUND MINE MACHINE												
ALL AXLES	2975	3275	3450	3600	3900	4225	4550	4850	5500	5950			
ALL AXLES	6560	7220	7605	7935	8600	9315	10030	10690	12125	13120			
Machine - Use kg - lbs	LOADER												
FRONT LADEN	3300	3650	3825	4000	4350	4700	5050	5400	6100	6600			
FRONT LADEN	7275	8045	8435	8820	9590	10360	11135	11905	13450	14550			
REAR UN- LADEN	2650	2925	3050	3200	3475	3750	4050	4325	4875	5275			
REAR UNLA- DEN	5840	6450	6725	7055	7660	8265	8930	9535	10750	11630			

IMPORTANT

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MICHELIN X MINE D2

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
9.00R20 L5* TT	123382 09497	6 4.0	-	277 10.9	1054 41.5	484 19.1	3203 126.1	51 64.3	-	-	7.0	7.0T* 7.33V 7.5

Bar	3.0	4.0	5.0	6.0	7.0	8.0
<i>Psi</i>	44	58	73	87	102	116

<i>Machine - Use kg - lbs</i>	UNDERGROUND MINE MACHINE					
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ALL AXLES	2700	3050	3400	3800	4150	4500
<i>ALL AXLES</i>	5950	6725	7495	8380	9150	9920

<i>Machine - Use kg - lbs</i>	LOADER					
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FRONT LADEN	3000	3400	3800	4200	4600	5000
<i>FRONT LADEN</i>	6615	7495	8380	9260	10140	11025

REAR UNLADEN	2400	2700	3050	3350	3700	4000
<i>REAR UNLADEN</i>	5290	5950	6725	7385	8155	8820

*OTHER APPROVED RIMS: B7.5, 6.5-B6.5, B7.0

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	7.0	JOINT CORNIERE A-20 TYRAN R1443 [553004]	-	-

12.00R20 L5 TT	123392 19601	6 4.0	-	323 12.7	1174 46.2	534 21.0	3555 140.0	57 71.8	-	-	8.5	8.0* 8.50V 8.5V
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Bar	3.0	4.0	5.0	6.0	7.0	8.0
<i>Psi</i>	44	58	73	87	102	116

<i>Machine - Use kg - lbs</i>	UNDERGROUND MINE MACHINE					
-----------------------------------	---------------------------------	--	--	--	--	--

ALL AXLES	3050	3600	4150	4700	5200	5750
<i>ALL AXLES</i>	6725	7935	9150	10360	11465	12675

<i>Machine - Use kg - lbs</i>	LOADER					
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FRONT LADEN	3400	4000	4600	5200	5800	6400
<i>FRONT LADEN</i>	7495	8820	10140	11465	12785	14110

REAR UNLADEN	2700	3200	3700	4150	4650	5100
<i>REAR UNLADEN</i>	5950	7055	8155	9150	10250	11245

*OTHER APPROVED RIMS: 9.0, 9.00V, B8.5

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	8.5	JOINT CORNIERE A-20 TYRAN R1443 [553004]	-	-

IMPORTANT

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MICHELIN X MINE D2

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
14.00R20 L5 TL	372138 64715	6 4.0	-	368 14.5	1236 48.7	557 21.9	3745 147.4	48 60.5	-	-	10.0	10.00W
Bar	3.0	4.0	5.0	5.5	6.0	6.5	7.0	8.0	8.5			
Psi	44	58	73	80	87	94	102	116	123			
Machine - Use kg - lbs UNDERGROUND MINE MACHINE												
ALL AXLES	3480	4200	4920	5280	5640	6000	6360	7070	7795			
ALL AXLES	7670	9260	10845	11640	12435	13230	14020	15585	17180			
Machine - Use kg - lbs LOADER												
FRONT LADEN	4140	4920	5690	6070	6460	6850	7230	8010				
FRONT LADEN	9125	10845	12545	13380	14240	15100	15940	17660				
REAR UNLA-DEN	2430	3100	3770	4100	4430	4770	5100	5770				
REAR UNLA-DEN	5355	6835	8310	9040	9765	10515	11245	12720				

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	10.0	JOINT CORNIERE A-20 TYRAN R1443 [553004]	-	-

450/70R20 L5** TL	976013 77552	8 5.0	-	433 17.1	1163 45.8	515 20.3	3488 137.3	37 46.6	-	-	15.00T	
Bar	5.0	5.5	6.0	6.5	7.0	7.3	7.5	7.8	8.0	8.3		
Psi	73	80	87	94	102	105	109	112	116	120		
Machine - Use kg - lbs UNDERGROUND TRANSPORT MACHINE												
ALL AXLES	6000	6500	6900	7300	7750	8000	8250	8500	8550	8750		
ALL AXLES	13230	14330	15210	16095	17085	17635	18190	18740	18850	19290		
Machine - Use kg - lbs LOADER												
FRONT LADEN	6700	7100	7750	8000	8500	8750	9000	9250	9500	9750		
FRONT LADEN	14770	15655	17085	17635	18740	19290	19840	20395	20945	21495		
REAR UNLA-DEN	5360	5680	6200	6400	6800	7000	7200	7400	7600	7800		
REAR UNLA-DEN	11815	12520	13670	14110	14990	15430	15875	16315	16755	17195		

IMPORTANT

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MICHELIN X MINE D2

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
12.00R24 L5 TL	242046 19455	6 4.0	-	330 13.0	1280 50.4	594 23.4	3906 153.8	57 2.2	-	-	8.5	7.33V* 7.5 8.0
Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0		
<i>Psi</i>	29	36	44	51	58	65	73	80	87	102		
Machine - Use kg - lbs UNDERGROUND MINE MACHINE												
ALL AXLES	2050	2450	2750	3100	3450	3800	4150	4475	4800	5500		
<i>ALL AXLES</i>	4520	5400	6065	6835	7605	8380	9150	9865	10580	12125		
Machine - Use kg - lbs LOADER												
FRONT LADEN	2300	2700	3050	3450	3850	4200	4600	4975	5350	6100		
<i>FRONT LADEN</i>	5070	5950	6725	7605	8490	9260	10140	10970	11795	13450		
REAR UN-LADEN	1850	2150	2450	2750	3100	3350	3700	4000	4300	4900		
<i>REAR UNLA-DEN</i>	4080	4740	5400	6065	6835	7385	8155	8820	9480	10805		

*OTHER APPROVED RIMS: 8.00V, 8.50V

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	8.5	JOINT CORNIERE G-25 ICERU R1237 [553012]	-	-

15.5R25 L5* TL	252905 34827	6 4.0	-	418 16.5	1336 52.6	609 24.0	4049 159.4	60 2.4	-	-	12.00/1.3	12.00/1.3 DC 13.00/1.4 DC
Bar	2.0	2.5	3.0	3.5	4.0	4.5						
<i>Psi</i>	29	36	44	51	58	65						
Machine - Use kg - lbs GRADER												
ALL AXLES	2325	2650	3000									
<i>ALL AXLES</i>	5125	5840	6615									
Machine - Use kg - lbs UNDERGROUND MINE MACHINE												
ALL AXLES	3350	3850	4300	4800	5200	5800						
<i>ALL AXLES</i>	7385	8490	9480	10580	11465	12785						
Machine - Use kg - lbs LOADER												
FRONT LADEN	3700	4250	4800	5350	5800	6450						
<i>FRONT LADEN</i>	8155	9370	10580	11795	12785	14220						
REAR UNLADEN	2950	3400	3850	4300	4650	5150						
<i>REAR UNLADEN</i>	6505	7495	8490	9480	10250	11355						

IMPORTANT

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MICHELIN X MINE D2

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
16.00R25 L5 TL	261025 34520	6 4.0	-	457 18.0	1530 60.2	699 27.5	4641 182.7	73 92.0	-	-	11.25/2.0	13.00/2.0

Bar	2.0	3.0	4.0	5.0	6.0	7.0
<i>Psi</i>	29	44	58	73	87	102

Machine - Use
kg - lbs

UNDERGROUND MINE MACHINE

ALL AXLES	4050	5200	6350	7500	8650	9800
<i>ALL AXLES</i>	8930	11465	14000	16535	19070	21605

Machine - Use
kg - lbs

LOADER

FRONT LADEN	4500	5800	7050	8350	9600	10900
<i>FRONT LADEN</i>	9920	12785	15545	18410	21165	24030
REAR UNLADEN	3600	4650	5650	6700	7700	8700
<i>REAR UNLADEN</i>	7935	10250	12455	14770	16975	19180

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	11.25/2.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

17.5R25 L5** TL	009071 31686	6 4.0	-	480 18.9	1402 55.2	641 25.2	4254 167.5	65 81.9	-	-	14.00/1.5	
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Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
<i>Psi</i>	44	51	58	65	73	80	87	94

Machine - Use
kg - lbs

UNDERGROUND TRANSPORT MACHINE

ALL AXLES	4250	4750	5300	5800	6300	6700	7100	7500
<i>ALL AXLES</i>	9370	10470	11685	12785	13890	14770	15655	16535

Machine - Use
kg - lbs

LOADER

FRONT LADEN	4750	5450	6000	6500	7100	7500	8000	8500
<i>FRONT LADEN</i>	10470	12015	13230	14330	15655	16535	17635	18740
REAR UNLA- DEN	3800	4360	4800	5200	5680	6000	6400	6800
<i>REAR UNLADEN</i>	8380	9610	10580	11465	12520	13230	14110	14990

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	14.00/1.5	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

IMPORTANT

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MICHELIN X MINE D2

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
18.00R25 L5** TL	391927 31984	6 4.0	-	536 21.1	1656 65.2	736 29.0	4971 195.7	82 103.3	-	-	13.00/2.5	15.00/2.5

Bar	4.0	4.5	5.0	5.5	6.0	7.0	7.5	8.0	8.3
Psi	58	65	73	80	87	102	109	116	120

Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE								
ALL AXLES	8250	9000	9750	10600	11200	12500	13200	14000	14200
ALL AXLES	18190	19840	21495	23370	24690	27560	29100	30865	31305

Machine - Use kg - lbs	LOADER								
FRONT LADEN	9250	10000	10900	11800	12500	14000	15000	15550	16000
FRONT LADEN	20395	22045	24030	26015	27560	30865	33070	34280	35275
REAR UNLA- DEN	7400	8000	8720	9450	10000	11200	12000	12450	12800
REAR UNLA- DEN	16315	17635	19225	20835	22045	24690	26455	27450	28220

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	13.00/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

20.5R25 L5** TL	353968 43492	6 4.0	-	562 22.1	1535 60.4	701 27.6	4656 183.3	74 93.2	-	-	17.00/1.7	17.00/2.0
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Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
Psi	44	51	58	65	73	80	87	94

Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE							
ALL AXLES	5600	6300	7100	7750	8250	9000	9500	10000
ALL AXLES	12345	13890	15655	17085	18190	19840	20945	22045

Machine - Use kg - lbs	LOADER							
FRONT LADEN	6300	7100	8000	8750	9500	10000	10900	11500
FRONT LADEN	13890	15655	17635	19290	20945	22045	24030	25355
REAR UNLA- DEN	5040	5680	6400	7000	7600	8000	8720	9200
REAR UNLADEN	11110	12520	14110	15430	16755	17635	19225	20285

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	17.00/1.7	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

IMPORTANT

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MICHELIN X MINE D2

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
23.5R25 L5** TL	199408 32199	6 4.0	-	637 25.1	1656 65.2	751 29.6	5009 197.2	83 104.6	-	-	19.50/2.5	
Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5				
<i>Psi</i>	44	51	58	65	73	80	87	94				
<i>Machine - Use kg - lbs</i>	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES	7300	8250	9000	9750	10600	11500	12150	12850				
<i>ALL AXLES</i>	16095	18190	19840	21495	23370	25355	26785	28330				
<i>Machine - Use kg - lbs</i>	LOADER											
FRONT LADEN	8250	9250	10300	11200	12150	12850	13600	14500				
<i>FRONT LADEN</i>	18190	20395	22710	24690	26785	28330	29985	31965				
REAR UNLA- DEN	6600	7400	8240	8960	9720	10280	10880	11600				
<i>REAR UNLADEN</i>	14550	16315	18165	19755	21430	22665	23985	25575				
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	19.50/2.5		JOINT TORIQUE OR 3-25 SULLA R1437 [553200]		CHAMBRE 25WAM VALVE 1837 [101871]		FLAP 18-24/25 [551612]					

26.5R25 L5** TL	164572 33205	6 4.0	-	718 28.3	1795 70.7	807 31.8	5413 213.1	91 114.6	-	-	22.00/3.0	22.00/3.0 IF
Bar	3.0	4.0	4.5	5.0	5.5	6.0	6.5					
<i>Psi</i>	44	58	65	73	80	87	94					
<i>Machine - Use kg - lbs</i>	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES	9000	11200	12500	13200	14500	15500	16500					
<i>ALL AXLES</i>	19840	24690	27560	29100	31965	34170	36375					
<i>Machine - Use kg - lbs</i>	LOADER											
FRONT LADEN	10300	12850	14000	15000	16000	17000	18500					
<i>FRONT LADEN</i>	22710	28330	30865	33070	35275	37480	40785					
REAR UNLADEN	8240	10280	11200	12000	12800	13600	14800					
<i>REAR UNLADEN</i>	18165	22665	24690	26455	28220	29985	32630					
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	22.00/3.0		JOINT TORIQUE OR 3-25 SULLA R1437 [553200]		-		-					

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MICHELIN X MINE D2

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
29.5R25 L5** TL	221069 33387	6 4.0	-	804 31.7	1903 74.9	850 33.5	5725 225.4	99 124.7	-	-	25.00/3.5	

Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
Psi	44	51	58	65	73	80	87	94

Machine - Use kg - lbs UNDERGROUND TRANSPORT MACHINE

ALL AXLES	10900	12150	13600	15000	16000	17500	18500	19500
ALL AXLES	24030	26785	29985	33070	35275	38580	40785	42990

Machine - Use kg - lbs LOADER

FRONT LADEN	12500	14000	15500	17000	18000	19500	20600	22400
FRONT LADEN	27560	30865	34170	37480	39685	42990	45415	49385
REAR UNLA- DEN	1000	11200	12400	13600	14400	15600	16480	17920
REAR UNLADEN	2205	24690	27335	29985	31745	34390	36330	39505

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	25.00/3.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

29.5R29 L5** TL	965209 31580	6 4.0	-	794 31.3	2005 78.9	896 35.3	6032 237.5	100 126.0	-	-	25.00/3.5	24.00/3.5
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Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
Psi	44	51	58	65	73	80	87	94

Machine - Use kg - lbs UNDERGROUND TRANSPORT MACHINE

ALL AXLES	11800	13200	14500	16000	17000	18500	19500	20600
ALL AXLES	26015	29100	31965	35275	37480	40785	42990	45415

Machine - Use kg - lbs LOADER

FRONT LADEN	13200	15000	16500	18000	19500	20600	22400	23600
FRONT LADEN	29100	33070	36375	39685	42990	45415	49385	52030
REAR UNLA- DEN	10560	12000	13200	14400	15600	16480	17920	18880
REAR UNLADEN	23280	26455	29100	31745	34390	36330	39505	41625

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	25.00/3.5	JOINT TORIQUE OR 3-29 SULKY R1439 [553202]	-	-

IMPORTANT

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MICHELIN X MINE D2

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
35/65R33 L5** TL	944666 67187	6 4.0	-	921 36.3	2051 80.8	916 36.1	6169 242.9	93 117.2	-	-	28.00/3.5	

Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
<i>Psi</i>	44	51	58	65	73	80	87	94

Machine - Use kg - lbs UNDERGROUND TRANSPORT MACHINE

ALL AXLES	13600	15500	17000	18500	20000	21800	23000	24300
<i>ALL AXLES</i>	29985	34170	37480	40785	44090	48060	50705	53570

Machine - Use kg - lbs LOADER

FRONT LADEN	16100	17700	19000	21200	23000	24300	25750	28000
<i>FRONT LADEN</i>	35495	39020	41890	46740	50705	53570	56770	61730

REAR UNLA- DEN	12900	14200	15200	16950	18400	19450	20600	22400
<i>REAR UNLADEN</i>	28440	31305	33510	37370	40565	42880	45415	49385

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	28.00/3.5	JOINT TORIQUE OR 3-33 STRIX R1440 [553203]	-	-

35/65R33 L5*** 229A2 TL	038242 61090	6 4.0	-	921 36.3	2077 81.8	-	-	93 117.2	-	-	28.00/3.5	
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Bar	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
<i>Psi</i>	44	58	65	73	80	87	94	102	109	116

Machine - Use kg - lbs LOADER

FRONT LADEN	15500	19000	21200	23000	25000	26500	28000	30000	31500	32500
<i>FRONT LADEN</i>	34170	41890	46740	50705	55115	58420	61730	66140	69445	71650

REAR UN- LADEN	12400	15200	16950	18400	20000	21200	22400	24000	25200	26000
<i>REAR UNLA- DEN</i>	27335	33510	37370	40565	44090	46740	49385	52910	55555	57320

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	28.00/3.5	-	-	-

IMPORTANT

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MICHELIN XGLA2



**MAXIMIZE YOUR
GRADER TRACTION**



For Graders



EXCELLENT PRODUCTIVITY

Resistance to impacts and cuts resulting in less downtime



EXCELLENT TRACTION AND SIDE HILL GRIP

An aggressive tread pattern, formed from many non-directional blocks, provides a high traction capability on unstable and muddy soils

An important contribution of the tread pattern to avoid lateral slip



LOW OPERATING COST

Easy to repair

Long-lasting, even-wearing tread pattern and durable with low rolling resistance for efficient fuel economy

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
13.00R24 L2* G2* TL	123386 24704	16 10.0	-	335 13.2	1296 51.0	570 22.4	3875 152.6	25 1.0	-	-	8.00TGSDC	9.00/1.5 DC 10.00VASDC

Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0
<i>Psi</i>	29	36	44	51	58	65	73

Machine - Use
kg - lbs **GRADER**

ALL AXLES	1900	2225	2550	2900
<i>ALL AXLES</i>	4190	4905	5620	6395

Machine - Use
kg - lbs **LOADER**

FRONT LADEN	2650	3100	3600	4050	4500	4950	5400
<i>FRONT LADEN</i>	5840	6835	7935	8930	9920	10915	11905
REAR UNLADEN	2100	2500	2900	3250	3600	3950	4300
<i>REAR UNLADEN</i>	4630	5510	6395	7165	7935	8710	9480

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	8.00TGSDC	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

14.00R24 L2* TL	123395 15924	16 10.0	-	371 14.6	1360 53.5	592 23.3	4051 159.5	25 1.0	-	-	8.00TGSDC	9.00/1.5 DC 10.00VASDC
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Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5
<i>Psi</i>	29	36	44	51	58	65	73	80

Machine - Use
kg - lbs **GRADER**

ALL AXLES	2300	2725	3125	3550
<i>ALL AXLES</i>	5070	6010	6890	7825

Machine - Use
kg - lbs **LOADER**

FRONT LADEN	3250	3750	4300	4800	5350	5900	6400	6900
<i>FRONT LADEN</i>	7165	8265	9480	10580	11795	13005	14110	15210
REAR UNLA- DEN	2600	3000	3450	3850	4300	4700	5100	5500
<i>REAR UNLADEN</i>	5730	6615	7605	8490	9480	10360	11245	12125

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	8.00TGSDC	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
16.00R24 L2* G2* TL		123903 45611	16 10.0	-	435 17.1	1500 59.1	646 25.4	4451 175.2	27 1.1	-	-	10.00VASDC	
Bar	2.0		2.5		3.0		3.5		4.0		4.5		5.0
Psi	29		36		44		51		58		65		73
Machine - Use kg - lbsGRADER													
ALL AXLES	3150		3625		4125		4625						
ALL AXLES	6945		7990		9095		10195						
Machine - Use kg - lbsLOADER													
FRONT LADEN	4500		5150		5800		6400		7050		7700		8350
FRONT LADEN	9920		11355		12785		14110		15545		16975		18410
REAR UNLADEN	3600		4100		4650		5100		5650		6150		6700
REAR UNLADEN	7935		9040		10250		11245		12455		13560		14770

IMPORTANT

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MICHELIN X UM HAUL



**BOOST PRODUCTIVITY
UNDER HEAVY HAULS**



For Underground Mining Trucks and LHD Loaders



**OUR MOST
PRODUCTIVE
UNDERGROUND
MINING TIRE ON
THE MARKET¹**

High load-carrying capacity and speed make it our most productive tire of its size on the market, with up to 360 TKPH

HANDLES HEAVY LOADS

Designed with new, bigger cables and innovative 6-ply architecture that let trucks get 8.6% more² load capacity to carry up to 31.5 tons at 7 bar



TIRE SIZE: 35/65R33

¹ The new Michelin tire size: 35/65R33 X[®] UM HAUL tire is our MOST PRODUCTIVE Underground TIRE ON THE MARKET for trucks greater than 60 tons of payload, with up to 360 TKPH.

² The new Michelin 35/65R33 X[®] UM HAUL tire gets 8.6% more load capacity, to carry up to 31.5 tons at 7 BAR due to new cables, architecture and larger tire.

³ The new Michelin 35/65R33 X[®] UM HAUL tire was designed to get 14 KM MAX DISTANCE PER HOUR thanks to a larger tire and cooler compound vs. the Michelin 35/65R33 XTLL.

⁴ The new Michelin 35/65R33 X[®] UM HAUL tire was designed for EXCELLENT ADHESION thanks to a new innovative tread pattern that increases grip.



**GAIN MORE
DISTANCE IN
AN HOUR**

Cooler rubber compounds allow trucks to maintain an average max distance of 14 km/hr³ while carrying more



**SUPERIOR
ADHESION⁴ FOR
BETTER GRIP**

Innovative tread pattern with center groove increases grip

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
35/65R33 SH4**** 225A8 TL	645051 78667	14 9.0	360 224.0	922 36.3	2081 81.9	-	-	60 75.6	-	-	28.00/3.5	
Bar	4.5	5.0			5.5		6.0			6.5		7.0
<i>Psi</i>	65	73			80		87			94		102
<i>Machine - Use kg - lbs</i>	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES	23000	24300			25750		27250			29000		31500
<i>ALL AXLES</i>	50705	53570			56770		60075			63935		69445
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	28.00/3.5		JOINT TORIQUE OR 3-33 STRIX R1440 [553203]		-		-					

IMPORTANT

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MICHELIN X MINE D2 PRO



**IMPROVED AGGRESSION
RESISTANCE AND
REDUCTION IN
DOWNTIME IN THE MOST
EXTREME CONDITIONS**



For Loaders, Skid-Steer Loaders,
Underground Haulers and Underground Loaders



**EXTREME
CONDITIONS
DEMAND TOUGH
TIRES**

**UP TO 18%
INCREASED LOAD
CAPACITY¹**



**IMPROVED
AGGRESSION
RESISTANCE²**

Due to new cables and
NRF technology

Two extra plies added to tire
construction which contain
crossed nylon cords encased
in rubber for greater
resistance and toughness

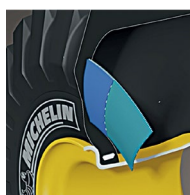


New cables in the working plies resist
aggression and protect against oxidation.



**IMPROVED
TIRE LIFE³**

In harsh conditions
thanks to optimized
tread compounds



TIRE SIZES: 17.5R25, 18.00R25, 20.5R25, 23.5R25, 26.5R25, 29.5R25, 29.5R29

¹ Based on comparisons of the MICHELIN® XSM® D2+ PRO and X MINE® D2 PRO to the MICHELIN® XSM® D2+ and MICHELIN® X MINE® D2, as set forth in the 2018 Michelin Databook. Actual results may vary.

² Based on computer modeling comparisons of the MICHELIN® XSM® D2+ PRO and X MINE® D2 PRO tires compared to MICHELIN® XSM® D2+ and MICHELIN X MINE® D2 tires. Actual results may vary.

³ Based upon improved aggression resistance and on computer modeling comparing the tread compounds included in the MICHELIN® XSM® D2+ PRO to the MICHELIN® XSM® D2+. Actual results may vary.

MICHELIN X-MINE D2 PRO

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
17.5R25 L5*** TL		720557 01143	6 4.0	-	477 18.8	1404 55.3	641 25.2	4254 167.5	65 81.9	-	-	14.00/1.5	
Bar	3.0	3.5	4.0		4.5		5.0	5.5		6.0		6.5	7.0
Psi	44	51	58		65		73	80		87		94	102
Machine - Use kg - lbs UNDERGROUND TRANSPORT MACHINE													
ALL AXLES	4250	4750	5300		5800		6300	6700		7100		7500	9000
ALL AXLES	9370	10470	11685		12785		13890	14770		15655		16535	19840
Machine - Use kg - lbs LOADER													
FRONT LADEN	4750	5450	6000		6500		7100	7500		8000		8500	10000
FRONT LADEN	10470	12015	13230		14330		15655	16535		17635		18740	22045
REAR UNLA-DEN	3800	4360	4800		5200		5680	6000		6400		6800	8000
REAR UNLA-DEN	8380	9610	10580		11465		12520	13230		14110		14990	17635

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	14.00/1.5	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

18.00R25 L5*** TL		153322 08541	6 4.0	-	532 20.9	1665 65.6	736 29.0	4971 195.7	82 103.3	-	-	13.00/2.5	15.00/2.5
Bar	4.0	4.5	5.0		5.5	6.0	7.0	7.5		8.0		8.3	8.5
Psi	58	65	73		80	87	102	109		116		120	123
Machine - Use kg - lbs UNDERGROUND TRANSPORT MACHINE													
ALL AXLES	8250	9000	9750		10600	11200	12500	13200		14000		14200	15000
ALL AXLES	18190	19840	21495		23370	24690	27560	29100		30865		31305	33070
Machine - Use kg - lbs LOADER													
FRONT LADEN	9250	10000	10900		11800	12500	14000	15000		15550		16000	17000
FRONT LADEN	20395	22045	24030		26015	27560	30865	33070		34280		35275	37480
REAR UNLA-DEN	7400	8000	8720		9440	10000	11200	12000		12440		12800	13600
REAR UNLA-DEN	16315	17635	19225		20810	22045	24690	26455		27425		28220	29985

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	13.00/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

IMPORTANT

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MICHELIN X-MINE D2 PRO

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
20.5R25 L5*** TL	539641 21899	6 4.0	-	562 22.1	1532 60.3	701 27.6	4656 183.3	74 93.2	-	-	17.00/1.7	17.00/2.0
Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0			
Psi	44	51	58	65	73	80	87	94	102			

Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES	5600	6300	7100	7750	8250	9000	9500	10000	11800			
ALL AXLES	12345	13890	15655	17085	18190	19840	20945	22045	26015			
Machine - Use kg - lbs	LOADER											
FRONT LADEN	6300	7100	8000	8750	9500	10000	10900	11500	13200			
FRONT LADEN	13890	15655	17635	19290	20945	22045	24030	25355	29100			
REAR UNLA-DEN	5040	5680	6400	7000	7600	8000	8720	9200	10560			
REAR UNLA-DEN	11110	12520	14110	15430	16755	17635	19225	20285	23280			

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	17.00/1.7	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

23.5R25 L5*** TL	813419 10697	6 4.0	-	643 25.3	1660 65.4	751 29.6	5009 197.2	83 104.6	-	-	19.50/2.5	
Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0			
Psi	44	51	58	65	73	80	87	94	102			
Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES	7300	8250	9000	9750	10600	11500	12150	12850	15000			
ALL AXLES	16095	18190	19840	21495	23370	25355	26785	28330	33070			
Machine - Use kg - lbs	LOADER											
FRONT LADEN	8250	9250	10300	11200	12150	12850	13600	14400	17000			
FRONT LADEN	18190	20395	22710	24690	26785	28330	29985	31745	37480			
REAR UNLA-DEN	6600	7400	8240	8960	9720	10280	10880	11600	13600			
REAR UNLA-DEN	14550	16315	18165	19755	21430	22665	23985	25575	29985			

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	CHAMBRE 25WAM VALVE 1837 [101871]	FLAP 18-24/25 [551612]

IMPORTANT

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MICHELIN X-MINE D2 PRO

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
26.5R25 L5*** TL	858472 21836	6 4.0	-	724 28.5	1789 70.4	807 31.8	5413 213.1	91 114.6	-	-	22.00/3.0	22.00/3.0 IF
Bar	3.0	4.0	4.5		5.0		5.5	6.0		6.5		7.0
Psi	44	58	65		73		80	87		94		102

Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES	9000	11500	12500		13200		14500	15500		16500		19000
ALL AXLES	19840	25355	27560		29100		31965	34170		36375		41890
Machine - Use kg - lbs	LOADER											
FRONT LADEN	10300	12850	14000		15000		16000	17000		18500		21200
FRONT LADEN	22710	28330	30865		33070		35275	37480		40785		46740
REAR UNLA- DEN	8240	10500	11200		12000		12800	13600		14800		16960
REAR UNLADEN	18165	23150	24690		26455		28220	29985		32630		37390

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	22.00/3.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

29.5R25 L5*** TL	326526 92460	6 4.0	-	806 31.7	1891 74.5	850 33.5	5725 225.4	99 124.7	-	-	25.00/3.5	
Bar	3.0	3.5	4.0	4.5	5.0		5.5	6.0		6.5		7.0
Psi	44	51	58	65	73		80	87		94		102
Machine - Use kg - lbs	UNDERGROUND TRANSPORT MACHINE											
ALL AXLES	10900	12150	13600		15000		16000	17500		18500		23000
ALL AXLES	24030	26785	29985		33070		35275	38580		40785		50705
Machine - Use kg - lbs	LOADER											
FRONT LADEN	12500	14000	15500		17000		18000	19500		20600		25750
FRONT LADEN	27560	30865	34170		37480		39685	42990		45415		56770
REAR UNLA- DEN	1000	11200	12400		13600		14400	15600		16480		20600
REAR UNLA- DEN	2205	24690	27335		29985		31745	34390		36330		45415

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	25.00/3.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

IMPORTANT

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MICHELIN X-MINE D2 PRO

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
29.5R29 L5*** TL		376767 28327	6 4.0	-	805 31.7	1994 78.5	896 35.3	6032 237.5	100 126.0	-	-	25.00/3.5	24.00/3.5
Bar	3.0	3.5	4.0		4.5		5.0	5.5		6.0		6.5	7.0
Psi	44	51	58		65		73	80		87		94	102
Machine - Use kg - lbs UNDERGROUND TRANSPORT MACHINE													
ALL AXLES	11800	13200	14500		16000		17000	18500		19500		20600	24300
ALL AXLES	26015	29100	31965		35275		37480	40785		42990		45415	53570
Machine - Use kg - lbs LOADER													
FRONT LADEN	13200	15000	16500		18000		19500	20600		22400		23600	27250
FRONT LADEN	29100	33070	36375		39685		42990	45415		49385		52030	60075
REAR UNLA-DEN	10560	12000	13200		14400		15600	16480		17920		18880	21800
REAR UNLA-DEN	23280	26455	29100		31745		34390	36330		39505		41625	48060
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
		25.00/3.5		JOINT TORIQUE OR 3-29 SULKY R1439 [553202]		-		-					

IMPORTANT

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MICHELIN XSM D2+LC



**MOVE FASTER,
MOVE LONGER.**



For Loaders, Underground Loaders and Forklifts

**DESIGNED TO INCREASE
YOUR SPEED
UP TO +50%
DISTANCE PER HOUR¹**

6 KM DISTANCE PER HOUR



**SPEED
INCREASE**

Move faster and get up to
+50% of distance per hour¹



**SPECIAL
CUT-RESISTANT
RUBBER COMPOUNDS**

Protection and aggression
resistance for most highly
abrasive and severe
mining conditions



**EXCEPTIONAL
PROTECTION**

Special cut-resistant
rubber compounds



TIRE SIZE: 18.00R25

¹ Internal comparison between the MICHELIN® XSM® D2 + LC and the MICHELIN® XSM® D2 + PRO, see the Michelin Earthmover Databook 2019.

MICHELIN XSM D2+ EXTRA LOAD L5***



**MORE
PRODUCTIVITY
AND TIRE LIFE¹**



For Load Haul Dumpers (LHD)



EXTENDED LOAD-CARRYING CAPACITY



New bead design and stronger crown cables support increased load capacity¹



ENHANCED AGGRESSION RESISTANCE



Designed with two extra sidewall plies, robust crown cables and our deepest tread depth in the smooth category.



5% MORE TIRE LIFE¹

When used in ** applications due to more robust crown cables and sidewall protection

TIRE SIZE: 35/65R33

¹Comparison vs. the Michelin XSMD2+ L5S** tire
Note: Work rate unchanged from the Michelin XSM D2+ L5S** tire: max distance in an hour of 4km.

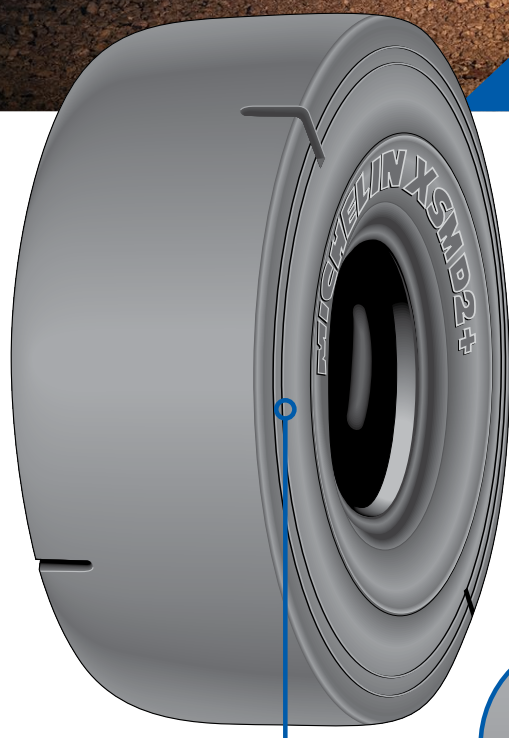
MICHELIN XSM D2+



**THE UNDERGROUND
MINING LOADER TIRE FOR
EXTREME CONDITIONS**



For Loaders, Underground Loaders and Forklifts



**SMOOTH, DEEP
TREAD OF 78 MM**

**REDUCE YOUR DOWNTIME
AND YOUR MAINTENANCE
COSTS IN THE MOST
EXTREME CONDITIONS**



**PROTECTED
CASING**

Resists damage from
impacts and penetration



**EXCELLENT
ADHESION**

The smooth tread design gives an
excellent level of adhesion in the
most difficult conditions of use

**ROBUST SHOULDERS WITH
SIDEWALL PROTECTION**



TIRE SIZES: 12.00R24, 18.00R25

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
12.00R24 L5 TL		123647 80803	4 2.0	-	325 12.8	1264 49.8	580 22.8	3840 151.2	57 71.8	-	-	8.5	7.33V* 7.5 8.0
Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0			
Psi	29	36	44	51	58	65	73	80	87	102			
Machine - Use kg - lbs	UNDERGROUND MINE MACHINE												
ALL AXLES	2050	2450	2750	3100	3450	3800	4150	4475	4800	5500			
ALL AXLES	4520	5400	6065	6835	7605	8380	9150	9865	10580	12125			
Machine - Use kg - lbs	LOADER												
FRONT LADEN	2300	2700	3050	3450	3850	4200	4600	4975	5350	6100			
FRONT LADEN	5070	5950	6725	7605	8490	9260	10140	10970	11795	13450			
REAR UN- LADEN	1850	2150	2450	2750	3100	3350	3700	4000	4300	4900			
REAR UNLA- DEN	4080	4740	5400	6065	6835	7385	8155	8820	9480	10805			

*OTHER APPROVED RIMS: 8.00V, 8.50V

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	8.5	JOINT CORNIERE G-25 ICERU R1237 [553012]	-	-

14.00R24 L5 TL			123597 80802	4 2.0	-	401 15.8	1395 54.9	636 25.0	4227 166.4	58 73.1	-	-	10.0	10.00W 9.0 9.00V
Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	7.0				
Psi	29	36	44	51	58	65	73	80	87	102				
Machine - Use kg - lbs	UNDERGROUND MINE MACHINE													
ALL AXLES	2950	3400	3850	4300	4800	5300	5750	6200	6550	7250				
ALL AXLES	6505	7495	8490	9480	10580	11685	12675	13670	14440	15985				
Machine - Use kg - lbs	LOADER													
FRONT LADEN	3250	3750	4300	4800	5350	5900	6400	6900						
FRONT LADEN	7165	8265	9480	10580	11795	13005	14110	15210						
REAR UN-LADEN	2600	3000	3450	3850	4300	4700	5100	5500						
REAR UNLA-DEN	5730	6615	7605	8490	9480	10360	11245	12125						

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
17.5R25 L5** TL	218365 41235	4 2.0	-	456 18.0	1397 55.0	641 25.2	4246 167.2	78 98.3	-	-	14.00/1.5	
Bar	3.0	3.5	4.0		4.5		5.0	5.5		6.0		6.5
<i>Psi</i>	44	51	58		65		73	80		87		94
Machine - Use kg - lbs LOADER												
FRONT LADEN	4750	5450	6000		6500		7100	7500		8000		8500
<i>FRONT LADEN</i>	10470	12015	13230		14330		15655	16535		17635		18740
REAR UNLA- DEN	3800	4360	4800		5200		5680	6000		6400		6800
<i>REAR UNLADEN</i>	8380	9610	10580		11465		12520	13230		14110		14990

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	14.00/1.5	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

18.00R25 L5** TL	686348 41606	4 2.0	-	507 20.0	1655 65.2	743 29.3	4988 196.4	96 120.9	-	-	13.00/2.5	15.00/2.5
Bar	4.0	4.5	5.0	5.5	6.0	7.0	7.5	8.0	8.3			
<i>Psi</i>	58	65	73	80	87	102	109	116	120			
Machine - Use kg - lbs LOADER												
FRONT LADEN	9250	10000	10900	11800	12500	14000	15000	15550		16000		
<i>FRONT LADEN</i>	20395	22045	24030	26015	27560	30865	33070	34280		35275		
REAR UNLA- DEN	7400	8000	8720	9450	10000	11200	12000	12450		12800		
<i>REAR UNLA- DEN</i>	16315	17635	19225	20835	22045	24690	26455	27450		28220		

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	13.00/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
18.00R25 L5S** TL	694482 32651	6 4.0	-	509 20.0	1612 63.5	723 28.5	4856 191.2	78 98.3	-	-	13.00/2.5	15.00/2.5
Bar	4.0	4.5	5.0	5.5	6.0	7.0	7.5	8.0	8.3			
<i>Psi</i>	58	65	73	80	87	102	109	116	120			
Machine - Use kg - lbs LOADER												
FRONT LADEN	9250	10000	10900	11800	12500	14000	15000	15550	16000			
<i>FRONT LADEN</i>	20395	22045	24030	26015	27560	30865	33070	34280	35275			
REAR UNLA- DEN	7400	8000	8720	9450	10000	11200	12000	12450	12800			
<i>REAR UNLA- DEN</i>	16315	17635	19225	20835	22045	24690	26455	27450	28220			

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	13.00/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

26.5R25 L5** TL	995669 93041	4 2.0	-	692 27.2	1790 70.5	806 31.7	5400 212.6	102 128.5	-	-	22.00/3.0	22.00/3.0 IF
Bar	3.0	4.0	4.5	5.0	5.5	6.0	6.5					
<i>Psi</i>	44	58	65	73	80	87	94					
Machine - Use kg - lbs LOADER												
FRONT LADEN	10300	12850	14000	15000	16000	17000	18500					
<i>FRONT LADEN</i>	22710	28330	30865	33070	35275	37480	40785					
REAR UNLADEN	8240	10280	11200	12000	12800	13600	14800					
<i>REAR UNLADEN</i>	18165	22665	24690	26455	28220	29985	32630					

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	22.00/3.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
29.5R29 L5** TL	358035 93004	4 2.0	-	770 30.3	1994 78.5	893 35.2	6003 236.3	112 141.1	-	-	25.00/3.5	24.00/3.5

Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
<i>Psi</i>	44	51	58	65	73	80	87	94

Machine - Use
kg - lbs

LOADER

FRONT LADEN	13200	15000	16500	18000	19500	20600	22400	23600
<i>FRONT LADEN</i>	29100	33070	36375	39685	42990	45415	49385	52030
REAR UNLA- DEN	10560	12000	13200	14400	15600	16480	17920	18880
<i>REAR UNLADEN</i>	23280	26455	29100	31745	34390	36330	39505	41625

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	25.00/3.5	JOINT TORIQUE OR 3-29 SULKY R1439 [553202]	-	-

35/65R33 L5S** TL		980846 39998	4 2.0	-	921 36.3	2050 80.7	916 36.1	6166 242.8	97 122.2	-	-	28.00/3.5	
Bar	3.0	3.5		4.0		4.5		5.0		5.5		6.0	6.5
Psi	44	51		58		65		73		80		87	94
Machine - Use													
LOADER													

Machine - Use
kg - lbs

LOADER

FRONT LADEN	16100	17700	19000	21200	23000	24300	25750	28000
<i>FRONT LADEN</i>	35495	39020	41890	46740	50705	53570	56770	61730
REAR UNLA- DEN	12900	14200	15200	16950	18400	19450	20600	22400
<i>REAR UNLADEN</i>	28440	31305	33510	37370	40565	42880	45415	49385

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	28.00/3.5	JOINT TORIQUE OR 3-33 STRIX R1440 [553203]	-	-

IMPORTANT

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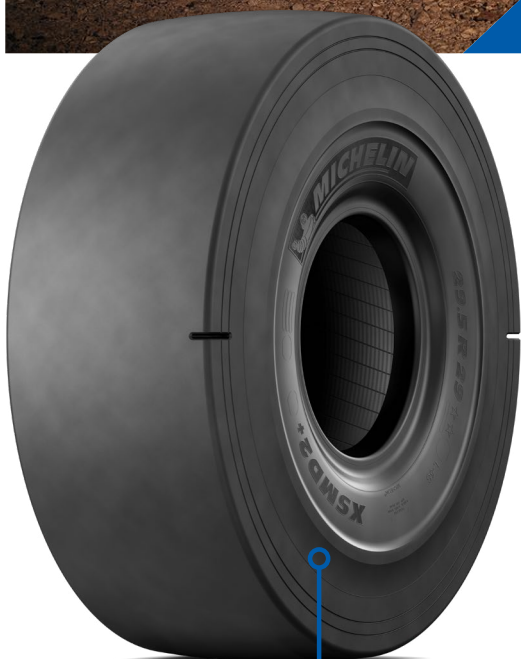
MICHELIN XSM D2+ PRO



**EXTREME CONDITIONS
DEMAND TOUGH TIRES**



For Loaders, Underground Loaders



**INCREASE LOAD CAPACITY
BY UP TO 18%¹**



**IMPROVED AGGRESSION
RESISTANCE²**

Due to new cables
and NRF technology
(reinforced sidewall plies)²

NRF TECHNOLOGY

Reinforced sidewall plies



**IMPROVED
TIRE LIFE³**

In the harshest of conditions
thanks to optimized tread
compounds³

TIRE SIZES: 17.5R25, 18.00R25, 26.5R25, 29.5R29

¹ Based on comparisons of the MICHELIN® XSM® D2+ PRO and X MINE® D2 PRO to the MICHELIN® XSM® D2+ and MICHELIN® X MINE® D2, as set forth in the 2024 Michelin Databook. Actual results may vary.

² Based on computer modeling comparisons of the MICHELIN® XSM® D2+ PRO and X MINE® D2 PRO tires compared to MICHELIN® XSM® D2+ and MICHELIN® X MINE® D2 tires. Actual results may vary.

³ Based upon improved aggression resistance and on computer modeling comparing the tread compounds included in the MICHELIN® XSM® D2+ PRO to the MICHELIN® XSM® D2+. Actual results may vary.

MICHELIN XSM D2+ PRO

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
17.5R25 L5*** TL	822869 33183	4 2.0	-	453 17.8	1396 55.0	641 25.2	4246 167.2	78 98.3	-	-	14.00/1.5	
Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0			
<i>Psi</i>	44	51	58	65	73	80	87	94	102			
Machine - Use kg - lbs LOADER												
FRONT LADEN	4750	5450	6000	6500	7100	7500	8000	8500	10000			
<i>FRONT LADEN</i>	10470	12015	13230	14330	15655	16535	17635	18740	22045			
REAR UNLA-DEN	3800	4360	4800	5200	5680	6000	6400	6800	8000			
<i>REAR UNLA-DEN</i>	8380	9610	10580	11465	12520	13230	14110	14990	17635			

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	14.00/1.5	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

18.00R25 L5*** TL	003438 57386	4 2.0	-	508 20.0	1653 65.1	743 29.3	4988 196.4	96 120.9	-	-	13.00/2.5	15.00/2.5
Bar	4.0	4.5	5.0	5.5	6.0	7.0	7.5	8.0	8.3	8.5		
<i>Psi</i>	58	65	73	80	87	102	109	116	120	123		
Machine - Use kg - lbs LOADER												
FRONT LADEN	9250	10000	10900	11800	12500	14000	15000	15550	16000	17000		
<i>FRONT LADEN</i>	20395	22045	24030	26015	27560	30865	33070	34280	35275	37480		
REAR UN-LADEN	7400	8000	8720	9440	10000	11200	12000	12440	12800	13600		
<i>REAR UNLA-DEN</i>	16315	17635	19225	20810	22045	24690	26455	27425	28220	29985		

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	13.00/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

IMPORTANT

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MICHELIN XSM D2+ PRO

TECHNICAL CHARACTERISTICS

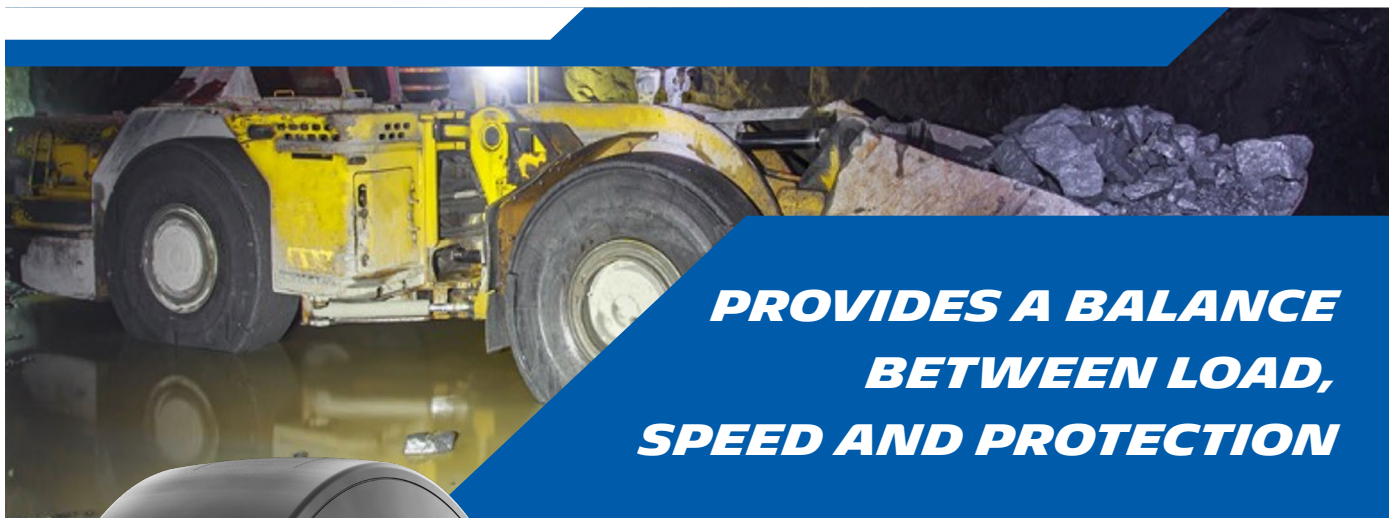
Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
26.5R25 L5S*** TL	183806 74661	4 2.0	-	693 27.3	1788 70.4	806 31.7	5400 212.6	102 128.5	-	-	22.00/3.0	22.00/3.0 IF
Bar	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0				
Psi	44	58	65	73	80	87	94	102				
Machine - Use kg - lbs	LOADER											
FRONT LADEN	10300	12850	14000	15000	16000	17000	18500	21200				
FRONT LADEN	22710	28330	30865	33070	35275	37480	40785	46740				
REAR UNLA- DEN	8240	10500	11200	12000	12800	13600	14800	16960				
REAR UNLADEN	18165	23150	24690	26455	28220	29985	32630	37390				
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	22.00/3.0		JOINT TORIQUE OR 3-25 SULLA R1437 [553200]		-		-					
29.5R29 L5S*** TL	819333 22462	4 2.0	-	770 30.3	1993 78.5	893 35.2	6003 236.3	112 141.1	-	-	25.00/3.5	24.00/3.5
Bar	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0			
Psi	44	51	58	65	73	80	87	94	102			
Machine - Use kg - lbs	LOADER											
FRONT LADEN	13200	15000	16500	18000	19500	20600	22400	23600	27250			
FRONT LADEN	29100	33070	36375	39685	42990	45415	49385	52030	60075			
REAR UNLA- DEN	10560	12000	13200	14400	15600	16480	17920	18880	21800			
REAR UNLA- DEN	23280	26455	29100	31745	34390	36330	39505	41625	48060			
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	25.00/3.5		JOINT TORIQUE OR 3-29 SULKY R1439 [553202]		-		-					

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XSM DN+



**PROVIDES A BALANCE
BETWEEN LOAD,
SPEED AND PROTECTION**



For Loaders, Underground Loaders and Forklifts



LONG CYCLE USAGE

Specially designed for use in
long cycles – 6 mph distance



HIGHER LOADS

Reinforced carcass for high
load capacity



ROBUST BEAD

Robust bead area with B2
technology for
extreme conditions

TIRE SIZES: 26.5R25, 35/65R33

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
26.5R25 L3S*** TL	569259 29138	10 6.0	-	704 27.7	1727 68.0	770 30.3	5192 204.4	44 55.4	-	-	22.00/3.0	22.00/3.0 IF

Bar	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
Psi	44	58	65	73	80	87	94	102	109	116

Machine - Use kg - lbs	LOADER									
FRONT LADEN	10300	12850	14000	15000	16000	17000	18500	19500	20600	21200
FRONT LADEN	22710	28330	30865	33070	35275	37480	40785	42990	45415	46740
REAR UN-LADEN	9100	10600	11450	12300	13100	13800	14650	15400	16200	16850
REAR UNLA-DEN	20060	23370	25245	27115	28880	30425	32300	33950	35715	37150

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	22.00/3.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

26.5R29 L3S*** TL	317097 02315	10 6.0	-	698 27.5	1830 72.1	820 32.3	5510 216.9	44 55.4	-	-	22.00/3.0	24.00/3.0
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Bar	5.0	5.5	6.0	6.5	6.8	7.0	7.3	7.5	7.8	8.0
Psi	73	80	87	94	98	102	105	109	112	116

Machine - Use kg - lbs	LOADER									
FRONT LADEN	16000	17500	18500	19500	20000	20600	21200	21800	22400	23000
FRONT LADEN	35275	38580	40785	42990	44090	45415	46740	48060	49385	50705
REAR UN-LADEN	12800	14000	14800	15600	16000	16480	16960	17440	17920	18400
REAR UNLA-DEN	28220	30865	32630	34390	35275	36330	37390	38450	39505	40565

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	22.00/3.0	JOINT TORIQUE OR 3-29 SULKY R1439 [553202]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
35/65R33 L3S*** TL		432610 07865	10 6.0	-	920 36.2	2022 79.6	897 35.3	6066 238.8	49 61.7	-	-	28.00/3.5	
Bar	3.0	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0			
Psi	44	58	65	73	80	87	94	102	109	116			
Machine - Use kg - lbs	LOADER												
FRONT LADEN	15500	19000	21200	23000	25000	26500	28000	30000	31500	32500			
FRONT LADEN	34170	41890	46740	50705	55115	58420	61730	66140	69445	71650			
REAR UN- LADEN	12400	15200	16950	18400	20000	21200	22400	24000	25200	26000			
REAR UNLA- DEN	27335	33510	37370	40565	44090	46740	49385	52910	55555	57320			
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]			
	28.00/3.5			JOINT TORIQUE OR 3-33 STRIX R1440 [553203]			-			-			

IMPORTANT

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MICHELIN XADN+ A & B4 COMPOUND*



**OPTIMIZE YOUR
OPERATIONAL COST
THANKS TO AN
EXCEPTIONAL TIRE LIFE**



For Articulated Dump Trucks and Scrapers



**+11% WEAR
LIFE¹**

The MICHELIN XADN+ lasts up to 11%¹ on average more hours compared to premium competitors

The B4 compound will improved the tread wear resistance on abrasive soil



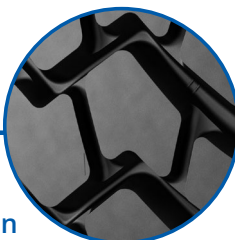
**GOOD LONG-TERM
INVESTMENT**

Up to 81% of Michelin tires are retreadable due to Michelin's casing quality³



Multi-block tread pattern with shoulder made of alternating and multi-edged blocks

Summit designed to resist stresses when cornering



Excellent lateral grip on soft terrain due to self-cleaning tread pattern



EXCELLENT TRACTION

Maneuverability on soft or muddy soil with proven flotation and traction

**EXCELLENT TREAD WEAR RESISTANCE
THANKS TO NEW RUBBER COMPOUND²**

¹ Compared to premium competitors field study in real life conditions made by Michelin for 9 years 2008-2017, on 114 tires in Africa, India, Middle-East, Australia, Asia South Pacific and Europe ; same size (23.5 R 25, 26.5 R 25 and 29.5 R 25) and same usage.

² See the 2019 MICHELIN technical databook Earthmover Tires. Reference value got with A-type rubber compound. Possibility of extension based on the need to be validated through specific study, please consult your local Michelin Technical Representative.

³ Measurement on retreadable capability made by Pneus Laurent over 2 years (2015-2017), on 578 Michelin tires on the same dimension (26.5 R 25) in Europe.

* Please refer to the Earthmover Tire compounds section on page 147.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
23.5R25 E3** 185B TL	295773 31373	28 17.0	207 129.0	602 23.7	1598 62.9	721 28.4	4824 189.9	38 1.5	-	-	19.50/2.5	

Bar	2.0	2.5	3.0	3.5	3.8	4.0	4.5	5.0
<i>Psi</i>	29	36	44	51	54	58	65	73

Machine - Use
kg - lbs **ARTICULATED DUMP TRUCK**

STANDARD	4930	5650	6380	7100	7450	7800	8550	9250
<i>STANDARD</i>	10870	12455	14065	15655	16425	17195	18850	20395

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

23.5R25 E3** 185B B4 TL	676673 44634	28 17.0	207 129.0	602 23.7	1598 62.9	721 28.4	4824 189.9	38 1.5	-	-	19.50/2.5	
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Bar	2.0	2.5	3.0	3.5	3.8	4.0	4.5	5.0
<i>Psi</i>	29	36	44	51	54	58	65	73

Machine - Use
kg - lbs **ARTICULATED DUMP TRUCK**

STANDARD	4930	5650	6380	7100	7450	7800	8550	9250
<i>STANDARD</i>	10870	12455	14065	15655	16425	17195	18850	20395

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

26.5R25 E3** 193B TL	154324 32433	28 17.0	258 160.0	687 27.1	1726 68.0	773 30.4	5196 204.6	41 1.6	-	-	22.00/3.0	22.00/3.0 IF
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Bar	2.5	3.0	3.3	3.5	4.0	4.5	5.0
<i>Psi</i>	36	44	47	51	58	65	73

Machine - Use
kg - lbs **ARTICULATED DUMP TRUCK**

STANDARD	6500	7500	8000	8500	9500	10500	11500
<i>STANDARD</i>	14330	16535	17635	18740	20945	23150	25355

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	22.00/3.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
26.5R25 E3** 193B B4 TL	238546 44737	28 17.0	258 160.0	687 27.1	1726 68.0	773 30.4	5196 204.6	41 1.6	-	-	22.00/3.0	22.00/3.0 IF

Bar	2.5	3.0	3.3	3.5	4.0	4.5	5.0
<i>Psi</i>	36	44	47	51	58	65	73

Machine - Use
kg - lbs

ARTICULATED DUMP TRUCK

STANDARD	6500	7500	8000	8500	9500	10500	11500
<i>STANDARD</i>	14330	16535	17635	18740	20945	23150	25355

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	22.00/3.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

29.5R25 E3** 200B B4 TL	101786 18042	28 17.0	314 195.0	767 30.2	1858 73.2	826 32.5	5578 219.6	44 1.7	-	-	25.00/3.5	
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Bar	2.5	3.0	3.3	3.5	4.0	4.5	5.0
<i>Psi</i>	36	44	47	51	58	65	73

Machine - Use
kg - lbs

ARTICULATED DUMP TRUCK

STANDARD	7800	9050	9675	10300	11500	12750	14000
<i>STANDARD</i>	17195	19950	21330	22710	25355	28110	30865

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	25.00/3.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

29.5R25 E3** 200B TL	597428 40883	28 17.0	314 195.0	767 30.2	1858 73.2	826 32.5	5578 219.6	44 1.7	-	-	25.00/3.5	
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Bar	2.5	3.0	3.3	3.5	4.0	4.5	5.0
<i>Psi</i>	36	44	47	51	58	65	73

Machine - Use
kg - lbs

ARTICULATED DUMP TRUCK

STANDARD	7800	9050	9675	10300	11500	12750	14000
<i>STANDARD</i>	17195	19950	21330	22710	25355	28110	30865

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	25.00/3.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XAD 65



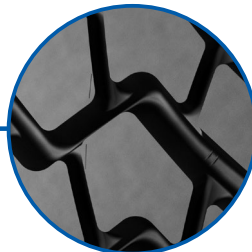
**TAILORED FOR YOUR
BOTTOM LINE IN ANY
WORKING CONDITIONS**



Multi-block
tread pattern

Larger footprint
with lower ground
contact pressure,
better stability,
excellent mobility

Excellent lateral grip on
soft terrain due to self-
cleaning tread pattern



For Articulated Dump Trucks



HIGHER FOOTPRINT

More tread rubber² to
protect your tire and
insure its retreadability

Better traction on
mixed soils

+26% footprint surface²



HIGHER LOAD CAPACITY

Up to 1600kg/3527 lbs at
a lower pressure¹



HIGHER AIR² VOLUME

Better comfort for the
operator with up to
10% or more shock
absorption²

Better flotation in
soft soils

¹ Internal comparison between 875/65 R 29 XAD65 and 29.5 R 25 XADN+, measurements certified by the Michelin® Center of Technology.

² Internal comparison between 1376/363.5 (Liter/Gallon) of the 875/65 R 29 XAD65 and 1221/322.6 (Liter/Gallon) of the 29.5 R 25 XADN+, measurement certified by Michelin® Center of Technology.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
750/65R25 E3** 190B TL	123895 79374	28 17.0	237 147.0	738 29.1	1599 63.0	701 27.6	4777 188.1	43 1.7	-	-	24.00/3.0	22.00/3.0 25.00/3.0
Bar	2.5		3.0			3.3		3.5			4.0	
Psi	36		44			47		51			58	
Machine - Use kg - lbs	ARTICULATED DUMP TRUCK											
STANDARD	7350		8400			8950		9500			10600	
STANDARD	16205		18520			19730		20945			23370	
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	24.00/3.0		JOINT TORIQUE OR 3-25 SULLA R1437 [553200]		-		-					

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XAD 65 SUPER E3

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
650/65R25 E3** 180B TL	840573 89647	28 17.0	179 111.0	630 24.8	1494 58.8	669 26.3	4498 177.1	40 1.6	-	-	19.50/2.5	22.00/3.0
Bar	2.5		3.0		3.5		4.0					
Psi	36		44		51		58					
Machine - Use kg - lbsARTICULATED DUMP TRUCK												
STANDARD	5450		6300		7150		8000					
STANDARD	12015		13890		15765		17635					
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	19.50/2.5		JOINT TORIQUE OR 3-25 SULLA R1437 [553200]		-		-					
775/65R29 E3** 195B TL	510085 74895	28 17.0	272 169.0	785 30.9	1759 69.3	779 30.7	5272 207.6	45 1.8	-	-	24.00/3.0	24.00/3.5 25.00/3.5
Bar	2.0		2.5		3.0		3.5		4.0			
Psi	29		36		44		51		58			
Machine - Use kg - lbsARTICULATED DUMP TRUCK												
STANDARD	6900		8100		9350		10700		12150			
STANDARD	15210		17855		20615		23590		26785			
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	24.00/3.0		JOINT TORIQUE OR 3-29 SULKY R1439 [553202]		-		-					
875/65R29 E3** 203B TL	086953 40269	28 17.0	347 216.0	883 34.8	1881 74.1	822 32.4	5613 221.0	51 2.0	-	-	27.00/3.0	27.00/3.5 28.00/3.5
Bar	2.0		2.5		3.0		3.5		4.0			
Psi	29		36		44		51		58			
Machine - Use kg - lbsARTICULATED DUMP TRUCK												
STANDARD	9100		10800		12500		14100		15500			
STANDARD	20060		23810		27560		31085		34170			
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	27.00/3.0		JOINT TORIQUE OR 3-29 SULKY R1439 [553202]		-		-					

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XTRA DEFEND E4 L4



For Articulated Dump Trucks and Loaders



PRODUCTIVITY

- Casing designed at ****⁽¹⁾** load capacity 56 779 lbs / 25 750 kg⁽²⁾ with Increased protection
- Up to **+21%⁽³⁾** extra load capacity vs competitor 1
- Low Michelin pressure conception for higher flotation in the mud and driver comfort in load and carry cycle



POLYVALENCE

- Reinforced casing and summit conception for ADT/Loader applications
- Address multiple applications with only one product offer. With high torque transmission for new machines, speed up to 50 km/h (31 mph) and up to 7.5 bar (109 psi) for high load capacity & high stability.



ROBUSTNESS

- Reinforced crown and summit resistance to aggression
- Up to **50%⁽⁴⁾** of mass metal, thicker summit with up to 5 plies conception with specific aggression rubber resistance



**XTRA
DEFEND E4****

+

**TREAD
AGGRESSION
RESISTANCE***

+

**SAME TKPH WITH
REINFORCED
BEAD AREA**



**XLD D1
+ 1 STAR LOAD
CAPACITY**

+

**EXTRA TORQUE
TRANSFERT**

+

**UP TO 10%⁽⁵⁾
EXTRA WEAR WITH
REINFORCE SUMMIT**



**XTRA DEFEND
E4**/L4**⁽¹⁾**

* Only available on XTRA DEFEND E4/L4 in 29.5R25 and 875/65R29 dimensions

⁽¹⁾ Except the 750/65 R 25, which is only * load capacity. Reference MICHELIN Earthmover Databook 2024.

⁽²⁾ Reference MICHELIN Earthmover Databook 2024 for the MICHELIN XTRA DEFEND E4**/L4** in 875/65 R29.

⁽³⁾ Measurement certified by the Michelin Center of Technology, Ladoux, France. Comparison between a Michelin XTRA DEFEND E4/L4 at 25750 kg/56779 lbs and the Bridgestone VLTS 21200 kg/46700 lbs same dimension 875/65 R29.

Reference Michelin Earthmover databook 2024 & Bridgestone Databook off the road tire 2023.

⁽⁴⁾ Internal comparison between the MICHELIN XLDD1 L4* and the MICHELIN XTRA DEFEND E4**/L4**, same dimension 29.5 R 25, measurement certified by the MICHELIN Center of Technology, Ladoux, France

⁽⁵⁾ Measurement certified by the Michelin Center of technology, Faro method, sculpture 3D with laser, comparison of the 29.5R25 Michelin XTRA DEFEND with competitor 2 same dimension.

MICHELIN XTRA DEFEND E4/L4

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
23.5/80R25 E4** L4** G4* 185B TL		723646 80181	26 16.0	192 119.0	617 24.3	1619 63.7	826 32.5	5586 219.9	54 2.1	-	-	19.50/2.5	
Bar	2.0	2.5	3.0	3.5	3.8	4.0	4.5	5.0	5.5				
Psi	29	36	44	51	54	58	65	73	80				
Machine - Use kg - lbs	GRADER												
ALL AXLES	4850	5250	6000	6750	7130	7500	8200						
ALL AXLES	10690	11575	13230	14880	15720	16535	18080						
Machine - Use kg - lbs	ARTICULATED DUMP TRUCK												
ALL AXLES	5650	6380	7100	7800	8175	8550	9250	9950	10350				
ALL AXLES	12455	14065	15655	17195	18025	18850	20395	21935	22820				
Machine - Use kg - lbs	LOADER												
FRONT LADEN	8100	9100	10150	11150	11650	12150	13350	13900	14500				
FRONT LADEN	17855	20060	22375	24580	25685	26785	29430	30645	31965				
REAR UNLA-DEN	6500	7300	8100	8900	9300	9700	10700	11160	11600				
REAR UNLA-DEN	14330	16095	17855	19620	20505	21385	23590	24605	25575				

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

26.5R25 E4** L4** G4* 193B TL		565274 76382	24 15.0	221 137.0	698 27.5	1740 68.5	-	-	60 2.3	-	-	22.00/3.0	22.00/3.0 IF
Bar	2.0	2.5	3.0	3.3	3.5	4.0	4.5	5.0	5.5				
Psi	29	36	44	47	51	58	65	73	80				
Machine - Use kg - lbs	GRADER												
ALL AXLES	5500	6500	7500	8000	8500	9400	10350	11500					
ALL AXLES	12125	14330	16535	17635	18740	20725	22820	25355					
Machine - Use kg - lbs	ARTICULATED DUMP TRUCK												
ALL AXLES	6500	7500	8500	9000	9500	10500	11500						
ALL AXLES	14330	16535	18740	19840	20945	23150	25355						
Machine - Use kg - lbs	LOADER												
FRONT LADEN	9300	10300	12150	12875	13600	15000	16150	17350	18500				
FRONT LADEN	20505	22710	26785	28385	29985	33070	35605	38250	40785				
REAR UNLA-DEN	7450	8250	9700	10300	10900	12000	12900	13900	14800				
REAR UNLA-DEN	16425	18190	21385	22710	24030	26455	28440	30645	32630				

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	22.00/3.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

MICHELIN XTRA DEFEND E4/L4

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
29.5R25 E4** L4** 200B TL	929747 88655	22 14.0	246 153.0	777 30.6	1857 73.1	826 32.5	5586 219.9	65 2.6	-	-	25.00/3.5	
Bar	2.0	2.5	3.0		3.5		4.0	4.5			5.0	5.5
Psi	29	36	44		51		58	65			73	80
<i>Machine - Use kg - lbs</i>	ARTICULATED DUMP TRUCK											
ALL AXLES	7800	9050	10300		11500		12750	14000				
<i>ALL AXLES</i>	<i>17195</i>	<i>19950</i>	<i>22710</i>		<i>25355</i>		<i>28110</i>	<i>30865</i>				
<i>Machine - Use kg - lbs</i>	LOADER											
FRONT LADEN	11150	12300	14600		16300		18000	19450		20950	22400	
<i>FRONT LADEN</i>	<i>24580</i>	<i>27115</i>	<i>32185</i>		<i>35935</i>		<i>39685</i>	<i>42880</i>		<i>46185</i>	<i>49385</i>	
REAR UNLA- DEN	8900	9850	11700		13050		14400	15550		16750	17900	
<i>REAR UNLADEN</i>	<i>19620</i>	<i>21715</i>	<i>25795</i>		<i>28770</i>		<i>31745</i>	<i>34280</i>		<i>36925</i>	<i>39465</i>	
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]			
	25.00/3.5		JOINT TORIQUE OR 3-25 SULLA R1437 [553200]			-			-			
750/65R25 E4** L4* G4* 190B TL	175955 13434	26 16.0	220 137.0	733 28.9	1628 64.1	-	-	55 2.2	-	-	24.00/3.0	22.00/3.0 25.00/3.0
Bar	2.0	2.5	3.0		3.3		3.5	4.0			4.5	
Psi	29	36	44		47		51	58			65	
<i>Machine - Use kg - lbs</i>	GRADER											
ALL AXLES	5500	6500	7500		8000		8500	9400		10500		
<i>ALL AXLES</i>	<i>12125</i>	<i>14330</i>	<i>16535</i>		<i>17635</i>		<i>18740</i>	<i>20725</i>		<i>23150</i>		
<i>Machine - Use kg - lbs</i>	ARTICULATED DUMP TRUCK											
ALL AXLES	6250	7350	8400		8950		9500	10600				
<i>ALL AXLES</i>	<i>13780</i>	<i>16205</i>	<i>18520</i>		<i>19730</i>		<i>20945</i>	<i>23370</i>				
<i>Machine - Use kg - lbs</i>	LOADER											
FRONT LADEN	8400	9420	11040		11700		12360	13680		15000		
<i>FRONT LADEN</i>	<i>18520</i>	<i>20770</i>	<i>24340</i>		<i>25795</i>		<i>27250</i>	<i>30160</i>		<i>33070</i>		
REAR UNLADEN	6725	7775	8825		9365		9000	10950		12000		
<i>REAR UNLADEN</i>	<i>14825</i>	<i>17140</i>	<i>19455</i>		<i>20645</i>		<i>19840</i>	<i>24140</i>		<i>26455</i>		
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]			
	24.00/3.0		JOINT TORIQUE OR 3-25 SULLA R1437 [553200]			-			-			

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XTRA DEFEND E4/L4

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
775/65R29 E4** L4** 195B TL	002752 76326	24 15.0	233 145.0	769 30.3	1761 69.3	-	-	54 2.1	-	-	24.00/3.0	24.00/3.5 25.00/3.5

Bar	2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	5.8
Psi	29	36	44	51	58	65	73	80	83

Machine - Use
kg - lbs **ARTICULATED DUMP TRUCK**

STANDARD	7000	8300	9500	10900	12150
STANDARD	15430	18300	20945	24030	26785

Machine - Use
kg - lbs **LOADER**

FRONT LADEN	8900	10500	12100	13800	15400	17000	18600	20000	20600
FRONT LADEN	19620	23150	26675	30425	33950	37480	41005	44090	45415
REAR UNLADEN	7100	8500	9700	11200	12300	13600	14900	16200	16480
REAR UNLADEN	15655	18740	21385	24690	27115	29985	32850	35715	36330

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	24.00/3.0	JOINT TORIQUE OR 3-29 SULKY R1439 [553202]	-	-

875/65R29 E4** L4** 203B TL	206954 76031	22 14.0	273 170.0	872 34.3	1884 74.2	-	-	60 2.3	-	-	27.00/3.0	27.00/3.5 28.00/3.5
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Bar	2.5	3.0	3.5	4.0	4.5	4.8	5.0	5.5	6.0	6.3
Psi	36	44	51	58	65	69	73	80	87	91

Machine - Use
kg - lbs **ARTICULATED DUMP TRUCK**

ALL AXLES	10600	12250	13800	15500	17100
ALL AXLES	23370	27005	30425	34170	37700

Machine - Use
kg - lbs **LOADER**

FRONT LADEN	13000	15200	17200	18500	20600	21200	21800	23600	25000	25750
FRONT LADEN	28660	33510	37920	40785	45415	46740	48060	52030	55115	56770
REAR UNLADEN	10400	12200	13800	14400	16480	16960	17440	18880	20000	20600
REAR UNLADEN	22930	26895	30425	31745	36330	37390	38450	41625	44090	45415

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	27.00/3.0	JOINT TORIQUE OR 3-29 SULKY R1439 [553202]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XTRA DEFEND



**DESIGNED TO
RESIST**



For Articulated Dump Trucks

**OUTSTANDING TIRE
LIFE AND EXCEPTIONAL
RESISTANCE TO
AGGRESSION**



ROBUSTNESS

24,7%⁽¹⁾ more mass metal
+15%⁽²⁾ more sidewall
thickness



TREADLIFE

Lower heat generation rubber
for a higher mileage on the
field



TRACTION

The best sculpture (E4) to bring
a high longevity during highest
cycle solicitation

TIRE SIZES: 750/65R25, 875/65R29, 23.5R2, 26.5R25, 29.5R25, 33.25R29

(1) On the summit, Internal comparison between 29.5R25 MICHELIN® XTRA Defend and 29.5R25 MICHELIN® X®-SUPER TERRAIN™+, measurement certified by the Michelin® Center of technology

(2) Internal comparison between 29.5R25 MICHELIN® XTRA Defend and 29.5R25 MICHELIN® X®-SUPER TERRAIN™+, measurement certified by the Michelin® Center of technology.

MICHELIN XTRA DEFEND

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
23.5R25 E4** 185B TL	923499 63502	26 16.0	192 119.0	615 24.2	1628 64.1	826 32.5	5586 219.9	54 2.1	-	-	19.50/2.5	

Bar	2.0	2.5	3.0	3.5	3.8	4.0	4.5	5.0	5.5
<i>Psi</i>	29	36	44	51	54	58	65	73	80

Machine - Use
kg - lbs

ARTICULATED DUMP TRUCK

STANDARD	5650	6380	7100	7800	8175	8550	9250	9950	10350
<i>STANDARD</i>	12455	14065	15655	17195	18025	18850	20395	21935	22820

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	19.50/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

26.5R25 E4 193B TL	740832 61680	24 15.0	221 137.0	698 27.5	1740 68.5	-	-	60 2.3	-	-	22.00/3.0	22.00/3.0 IF
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Bar	2.0	2.5	3.0	3.3	3.5	4.0	4.5
<i>Psi</i>	29	36	44	47	51	58	65

Machine - Use
kg - lbs

ARTICULATED DUMP TRUCK

STANDARD	6500	7500	8500	9000	9500	10500	11500
<i>STANDARD</i>	14330	16535	18740	19840	20945	23150	25355

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	22.00/3.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

29.5R25 E4** 200B TL	940473 07272	22 14.0	246 153.0	773 30.4	1862 73.3	826 32.5	5586 219.9	65 2.6	-	-	25.00/3.5	
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Bar	2.0	2.5	3.0	3.3	3.5	4.0	4.5
<i>Psi</i>	29	36	44	47	51	58	65

Machine - Use
kg - lbs

ARTICULATED DUMP TRUCK

STANDARD	7800	9050	10300	10900	11500	12750	14000
<i>STANDARD</i>	17195	19950	22710	24030	25355	28110	30865

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	25.00/3.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XTRA DEFEND

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
750/65R25 E4 190B TL	209221 32588	26 16.0	220 137.0	733 28.9	1628 64.1	-	-	55 2.2	-	-	24.00/3.0	22.00/3.0 25.00/3.0

Bar	2.5	3.0	3.3	3.5	4.0
<i>Psi</i>	36	44	47	51	58

Machine - Use
kg - lbs **ARTICULATED DUMP TRUCK**

STANDARD	7350	8400	8950	9500	10600
<i>STANDARD</i>	16205	18520	19730	20945	23370

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	24.00/3.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

33.25R29 E4** 209B TL	900079 45226	26 16.0	385 239.0	857 33.7	2067 81.4	826 32.5	5586 219.9	69 2.7	-	-	27.00/3.5	
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Bar	2.0	2.5	3.0	3.5	4.0	4.3	4.5	5.0	5.5	6.0
<i>Psi</i>	29	36	44	51	58	62	65	73	80	87

Machine - Use
kg - lbs **TRANSPORT**

STANDARD	9500	11000	12500	14000	15500	16300	17000	18500	19250	20000
<i>STANDARD</i>	20945	24250	27560	30865	34170	35935	37480	40785	42440	44090

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	27.00/3.5	-	-	-

875/65R29 E4 203B TL	992223 76545	22 14.0	273 170.0	872 34.3	1884 74.2	-	-	60 2.3	-	-	27.00/3.0	27.00/3.5 28.00/3.5
-----------------------------	-----------------	------------	--------------	-------------	--------------	---	---	-----------	---	---	-----------	------------------------

Bar	2.0	2.5	3.0	3.5	4.0	4.5
<i>Psi</i>	29	36	44	51	58	65

Machine - Use
kg - lbs **ARTICULATED DUMP TRUCK**

STANDARD	9000	10600	12250	13800	15500	17100
<i>STANDARD</i>	19840	23370	27005	30425	34170	37700

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	27.00/3.0	JOINT TORIQUE OR 3-29 SULKY R1439 [553202]	-	-

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN XS SAND

**TUBELESS RADIAL TIRE
FOR ADT AND SPECIAL
MACHINES WORKING
IN DEEP SAND**



For Articulated Dump Trucks



HIGH LEVEL OF MOBILITY

Wide tread

Greater ground contact area

Multi-facet tread pattern
with staggered tread blocks



HIGH PRODUCTIVITY

Strong, flexible radial casing

Heavy loads at low
inflation pressures

Optimized sidewall

Resistance to hot climatic
conditions and ultra
violet light



FLOTATION

Wide tread band and large
air volume

Optimized distribution of
ground pressure constraints

Low ground contact pressure

MICHELIN XS SAND

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
18.00R25 E7 TL	276450	-	-	492 19.4	1600 63.0	722 28.4	4831 190.2	21 0.8	641 25.2	-	13.00/2.5	15.00/2.5

Bar	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0
<i>Psi</i>	15	22	29	36	44	51	58	65	73	87

Machine - Use
kg - lbs

DESERT CONDITIONS (65 KM/H MAX.)

SAND	3600	5050	6350
<i>SAND</i>	7935	11135	14000
SAND DUAL	3240	4545	5715
<i>SAND DUAL</i>	7145	10020	12600

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	13.00/2.5	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

21.00R25 E7 TL	276670	-	-	558 22.0	1750 68.9	767 30.2	5226 205.8	19 0.8	-	-	15.00/3.0	
Bar	1.0	1.5	2.0	2.5	3.0	3.5	4.0	4.5	5.0	6.0		
Psi	15	22	29	36	44	51	58	65	73	87		
Machine - Use	DESERT CONDITIONS (65 KM/H MAX.)											

Machine - Use
kg - lbs

DESERT CONDITIONS (65 KM/H MAX.)

SAND	4250	6000	7600
<i>SAND</i>	9370	13230	16755
SAND DUAL	3825	5400	6840
<i>SAND DUAL</i>	8435	11905	15080

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	15.00/3.0	JOINT TORIQUE OR 3-25 SULLA R1437 [553200]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION			CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims			
29.5R25 E7 196E TL			458236 45496	-	-	747 29.4	1820 71.7	796 31.3	5431 213.8	22 0.9	-	-	25.00/3.5				
Bar	2.0	2.3	2.5	2.7	2.9	3.0	3.3	3.3	3.5	3.7	4.0	4.1	4.5	4.9	5.0	5.5	
Psi	29	33	36	39	42	44	47	48	51	54	58	59	65	71	73	80	
Machine - Use kg - lbs			ARTICULATED DUMP TRUCK														
70 KM/H 43 MPH						7800 17195	8575 18905	9350 20615			10900 24030		11500 25355		12750 28110	14000 30865	
STANDARD STANDARD			7800 17195	9050 19950		10300 22710		10900 24030	11500 25355			12750 28110		14000 30865			
Machine - Use kg - lbs			DESERT CONDITIONS (65 KM/H MAX.)														
SAND SAND			11000 24250	12000 26455	12500 27560	13000 28660	14000 30865										
TRACK TRACK								11000 24250	12000 26455		13000 28660		14000 30865				
ROAD ROAD									11000 24250		12000 26455		13000 28660	14000 30865			
TUBELESS MOUNTING ACCESSORIES AVAILABLE			Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]					
			25.00/3.5			JOINT TORIQUE OR 3-25 SULLA R1437 [553200]			-			-					

IMPORTANT

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MICHELIN XTS



**FOR MEDIUM POWERED
SCRAPERS IN APPLICATIONS
REQUIRING MAXIMUM
TRACTION**



For Articulated Dump Trucks and Scrapers



**IMPROVED
DURABILITY**

**BETTER RESISTANCE
TO DAMAGE AND
ABRASION**

Square shoulders and
protective sidewall bands



**INCREASED
TRACTION
AND ADHESION**

**SELF CLEANING
TREAD PATTERN**

Open tread design with
widely spaced tread blocks



EXTENDED LIFE

IMPROVED WEAR RATE

Extra deep tread composed
of special new rubber
compounds

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
29.5R29 E3** TL		708648 46731	29 18.0	348 216.0	765 30.1	1963 77.3	869 34.2	5884 231.7	43 1.7	-	-	25.00/3.5	24.00/3.5
Bar	2.0	2.5	3.0	3.5	4.0	4.3	4.5	5.0	5.5				
<i>Psi</i>	29	36	44	51	58	62	65	73	80				
<i>Machine - Use</i> kg - lbs TRANSPORT													
STANDARD	9150	10325	11500	12650	13850	14425	15000	16150	16750				
<i>STANDARD</i>	20170	22765	25355	27890	30535	31800	33070	35605	36925				
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
		25.00/3.5		JOINT TORIQUE OR 3-29 SULKY R1439 [553202]		-		-					
33.25R29 E3** TL		871916 76725	29 18.0	429 267.0	873 34.4	2068 81.4	923 36.3	6218 244.8	51 2.0	-	-	27.00/3.5	
Bar	2.0	2.5	3.0	3.5	4.0	4.3	4.5	5.0	5.5	6.0			
<i>Psi</i>	29	36	44	51	58	62	65	73	80	87			
<i>Machine - Use</i> kg - lbs TRANSPORT													
STANDARD	9500	11000	12500	14000	15500	16300	17000	18500	19250	20000			
<i>STANDARD</i>	20945	24250	27560	30865	34170	35935	37480	40785	42440	44090			
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
		27.00/3.5		JOINT TORIQUE OR 3-29 SULKY R1439 [553202]		-		-					
29.5R35 E3** TL		631225 64173	29 18.0	371 231.0	777 30.6	2116 83.3	943 37.1	6539 257.4	45 1.8	-	-	25.00/3.5	27.00/3.5
Bar	3.5	3.8	4.0	4.3	4.5	5.0	5.5						
<i>Psi</i>	51	54	58	62	65	73	80						
<i>Machine - Use</i> kg - lbs TRANSPORT													
STANDARD	13200	13900	14600	15300	16000	17400	18100						
<i>STANDARD</i>	29100	30645	32185	33730	35275	38360	39905						
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
		25.00/3.5		JOINT TORIQUE OR 3-35 STRASS R1441 [553204]		-		-					

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
37.25R35 E3** TL		540244 54190	29 18.0	540 336.0	956 37.6	2370 93.3	1070 42.1	7157 281.8	59 2.3	-	-	31.00/4.0	29.00/3.5
Bar	3.8	4.0		4.3		4.5		5.0		5.5		6.0	6.5
Psi	54	58		62		65		73		80		87	94
Machine - Use kg - lbs	TRANSPORT												
STANDARD	17950	18500		19350		20200		21900		23600		24450	25300
STANDARD	39575	40785		42660		44535		48280		52030		53905	55775
TUBELESS MOUNTING ACCESSORIES AVAILABLE		Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
		31.00/4.0		JOINT TORIQUE OR 3-35 STRASS R1441 [553204]		-		-					

IMPORTANT

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MICHELIN XMS



**E3 RADIAL TIRE FOR LARGE
SCRAPERS DELIVERS EXCELLENT
TRACTION, SUPERIOR DAMAGE
RESISTANCE & A SMOOTH RIDE**



For Scrapers



MAXIMUM RESISTANCE

The square tread contour protects shoulders and sidewalls from damage



EXCELLENT LATERAL GRIP

The edges of the circumferential tread pattern offer exceptional lateral grip



OPTIMAL COMFORT

Staggered tread blocks provide excellent operator comfort



EXTENDED TIRE LIFE

The innovative tread design has a high lug-to-void ratio

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
40.5/75R39 E3** B TL		379296 93211	33 21.0	766 476.0	998 39.3	2588 101.9	1151 45.3	7770 305.9	51 2.0	-	-	32.00/4.5	
Bar	3.0	3.5		4.0		4.3		4.5		5.0		5.5	6.0
Psi	44	51		58		62		65		73		80	87
Machine - Use kg - lbs	TRANSPORT												
STANDARD	20200	22400		24600		25700		26800	29000			30100	31200
STANDARD	44535	49385		54235		56660		59085	63935			66360	68785
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]				Tube [CAI]		Flap [CAI]			
	32.00/4.5			JOINT TORIQUE OR 3-39 FUODI R1069 [553206]				-		-			

IMPORTANT

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MICHELIN XRS



**THE NON-DIRECTIONAL
E4R TIRE FOR HIGH POWERED
SCRAPERS IN HARSH
WORKING CONDITIONS**



For Scrapers



LONGEVITY

A THICK, TOUGH TREAD

Additional volume of tread rubber available for wear



PRODUCTIVITY

Deep open tread pattern with staggered blocks



DAMAGE RESISTANCE

Better protection against cuts and side wall damage

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
37.25R35 E4** B TL	123673 75762	22 14.0	415 258.0	947 37.3	2364 93.1	1063 41.9	7127 280.6	53 2.1	-	-	31.00/4.0	29.00/3.5
Bar	3.8	4.0	4.3		4.5		5.0	5.5		6.0		6.5
<i>Psi</i>	54	58	62		65		73	80		87		94
<i>Machine - Use kg - lbs</i>	TRANSPORT											
STANDARD	17950	18500	19350		20200		21900	23600		24450		25300
<i>STANDARD</i>	39575	40785	42660		44535		48280	52030		53905		55775
37.5R39 E4** TL	856011 45909	22 14.0	453 281.0	976 38.4	2517 99.1	1130 44.5	7583 298.5	56 2.2	-	-	32.00/4.5	
Bar	3.0	3.5	4.0		4.3		4.5	5.0		5.5		6.0
<i>Psi</i>	44	51	58		62		65	73		80		87
<i>Machine - Use kg - lbs</i>	TRANSPORT											
STANDARD	18100	20000	21900		22900		23850	25750		26700		27650
<i>STANDARD</i>	39905	44090	48280		50485		52580	56770		58865		60960
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	32.00/4.5		JOINT TORIQUE OR 3-39 FUODI R1069 [553206]		-		-					

IMPORTANT

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MICHELIN X-CRANE 2



**THE TIRE THAT KEEPS
YOU DRIVING WITH
CONFIDENCE AND FOR
LONGER**



For Mobile Tower Cranes and All Terrain Cranes



SAFETY

A new design that allows for greater mobility and integrates REGENION technology for the R25 size, and DURACOIL technology for the R22.5 size.



PRODUCTIVITY

Thanks to its new casing, this tire supports higher loads while minimizing heat buildup.⁽¹⁾



TREAD TRACTION

Lower rolling resistance that helps reduce CO2 emissions.



(2)

TIRE SIZES: 445/75R22.5, 445/95R25

¹ Comparison based on a 445/95R25 178F X-CRANE 2 at its nominal speed «F 80 km/h» versus a 445/95R25 174F X-CRANE+.

² 3PMSF only applies to the MICHELIN 445/75 R22.5 X-CRANE 2 173J (174G) TL.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
445/75 R22.5 X-CRANE 2 173J/174G TL	763336 -	-	-	462 18.2	1232 48.5	567 22.3	3747 147.5	14.9 18.8	-	294 77.7	14.00X22.5	-
Bar	4		5		6		7		8		9	
Psi	58		73		87		102		116		131	
Machine - use kg - lbs	CRANE AND SIMILAR SPECIALIZED MACHINE											
	5700		7000		8100		9200		10300		11300	
STATIC	12569		15435		17861		20286		22712		24917	
5 km/h	5100		6200		7300		8300		9300		10200	
3 mph	11246		13671		16097		18302		20507		22491	
10 km/h	4400		5400		6400		7300		8200		9100	
6 mph	9702		11907		14112		16097		18081		20066	
20 km/h	4000		4800		5700		6500		7300		8100	
12 mph	8820		10584		12569		14333		16097		17861	
30 km/h	3500		4300		5000		5800		6500		7200	
20 mph	7718		9482		11025		12789		14333		15876	
40 km/h	3300		4000		4700		5400		6100		6700	
25 mph	7277		8820		10364		11907		13451		14774	
50 km/h	3200		3900		4600		5300		6000		6600	
30 mph	7056		8600		10143		11687		13230		14553	
60 km/h	3200		3900		4600		5300		6000		6600	
37 mph	7056		8600		10143		11687		13230		14553	
70 km/h	3200		3900		4600		5300		6000		6600	
44 mph	7056		8600		10143		11687		13230		14553	
80 km/h	3100		3800		4500		5100		5700		6500	
50 mph	6836		8379		9923		11246		12569		14333	
90 km/h	3100		3800		4500		5100		5700		6500	
56 mph	6836		8379		9923		11246		12569		14333	
100 km/h	3100		3800		4500		5100		5700		6500	
62 mph	6836		8379		9923		11246		12569		14333	

IMPORTANT

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MICHELIN X-CRANE 2

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
445/95 R 25 X-CRANE 2 TL 178F MI	460886	-	-	445 17.5	1549 61	719 28.3	4726 186.1	21 26	518 20.4	395 104.4	11.00/1.7 CR	11.25/2 DC635X280 CR
Bar	6				7			8			9	
Psi	87				102			116			131	
Machine - use kg - lbs	CRANE AND SIMILAR SPECIALIZED MACHINE OFF THE ROAD											
STATIC											22100	
											48731	
CREEP											18000	
											39690	
3 km/h 2 mph											16700	
											36824	
5 km/h 3 mph											15900	
											35060	
10 km/h 6 mph											13800	
											30429	
Machine - use kg - lbs	CRANE AND SIMILAR SPECIALIZED MACHINE ON THE ROAD											
30 km/h 19 mph	6880				7650			8575			9375	
	15170				16868			18908			20672	
40 km/h 25 mph	6405				7100			7885			8625	
	14123				15656			17386			19018	
50 km/h 31 mph	6180				6900			7610			8400	
	13627				15215			16780			18522	
65 km/h 40 mph	5985				6685			7370			8250	
	13197				14740			16251			18191	
70 km/h 43 mph	5845				6530			7200			7875	
	12888				14399			15876			17364	
80 km/h 50 mph	5570				6220			6860			7500	
	12282				13715			15126			16538	
90 km/h 56 mph	5235				5845			6450			7050	
	11543				12888			14222			15545	
100 km/h 62 mph	4735				5290			5835			6375	
	10441				11664			12866			14057	

Please note that the new size 445/95 R 25 will be available from May 2025.

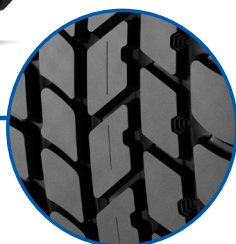
IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

MICHELIN X-CRANE + (M+S)



For Cranes



LOWER OPERATING COSTS

Wear life increased by up to 20%¹ thanks to a new, more resistant rubber compound in the tread



GREATER OPERATOR COMFORT AND RELIABILITY

Improvement in irregular wear patterns so that the crane generates fewer vibrations thanks to a more rigid rubber compound in the tread

Increased reliability due to better resistance of the cables, the C2 Technology and a longer-lasting bead area



LESS WASTE

More environmentally friendly because tires can be regrooved

TIRE SIZES: 385/95R25, 445/95R25

¹ Internal comparison between the MICHELIN® X-CRANE® + and the MICHELIN® X-CRANE® or XGC® depending of the dimension, measurements certified by the Michelin® Center of Technology.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
385/95R25 170E TL	060565	70 43.0	-	391 15.4	1365 53.7	633 24.9	4165 164.0	23 0.9	-	-	10.00/1.5	
Bar	6.0	6.5		7.0		7.5		8.0		8.5		9.0
<i>Psi</i>	87	94		102		109		116		123		131
Machine - Use kg - lbs CRANE AND SIMILAR SPECIALIZED MACHINE												
STATIC	14350	15030		15700		16350		16970		17590		18180
<i>STATIC</i>	31635	33135		34615		36045		37410		38780		40080
2 KM/H CREEP	11650	12200		12740		13270		13780		14280		14760
<i>MPH CREEP</i>	25685	26895		28085		29255		30380		31480		32540
5 KM/H	10320	10810		11290		11760		12210		12650		13080
<i>3 MPH</i>	22750	23830		24890		25925		26920		27890		28835
10 KM/H	8950	9370		9790		10200		10580		10970		11340
<i>5 MPH</i>	19730	20655		21585		22485		23325		24185		25000
30 KM/H	6160	6450		6730		7010		7280		7550		7800
<i>20 MPH</i>	13580	14220		14835		15455		16050		16645		17195
40 KM/H	5870	6150		6420		6690		6940		7200		7440
<i>25 MPH</i>	12940	13560		14155		14750		15300		15875		16400
45 KM/H	5730	6000		6270		6530		6780		7020		7260
<i>MPH</i>	12630	13230		13825		14395		14945		15475		16005
50 KM/H	5590	5850		6110		6370		6610		6850		7080
<i>30 MPH</i>	12325	12895		13470		14045		14575		15100		15610
60 KM/H	5300	5560		5800		6040		6270		6500		6720
<i>35 MPH</i>	11685	12260		12785		13315		13825		14330		14815
70 KM/H	4735	4960		5180		5395		5600		5805		6000
<i>43 MPH</i>	10440	10935		11420		11895		12345		12800		13230
80 KM/H	3885	4065		4250		4425		4590		4760		4920
<i>50 MPH</i>	8565	8960		9370		9755		10120		10495		10845
90 KM/H	3315	3470		3625		3775		3920		4065		4200
<i>55 MPH</i>	7310	7650		7990		8320		8640		8960		9260
100 KM/H	2840	2975		3110		3235		3360		3485		3600
<i>62 MPH</i>	6260	6560		6855		7130		7410		7685		7935

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	10.00/1.5	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
385/95R25 170F TL	682834 32768	80 50.0	-	380 15.0	1365 53.7	633 24.9	4165 164.0	23 0.9	-	-	9.50/1.7 CR	10.00/1.5 11.25/1.3
Bar	5.0			6.0		7.0		8.0			9.0	
<i>Psi</i>	73			87		102		116			131	
<i>Machine - Use kg - lbs</i>	CRANE AND SIMILAR SPECIALIZED MACHINE											
30 KM/H	4750			5440		6125		6815			7500	
<i>20 MPH</i>	10470			11995		13505		15025			16535	
40 KM/H	4370			5005		5635		6270			6900	
<i>25 MPH</i>	9635			11035		12425		13825			15210	
50 KM/H	4255			4870		5490		6105			6720	
<i>30 MPH</i>	9380			10735		12105		13460			14815	
60 KM/H	4180			4785		5390		5995			6600	
<i>35 MPH</i>	9215			10550		11885		13215			14550	
65 KM/H	4085			4575		5270		5860			6450	
<i>40 MPH</i>	9005			10085		11620		12920			14220	
70 KM/H	3990			4570		5145		5725			6300	
<i>43 MPH</i>	8795			10075		11345		12620			13890	
80 KM/H	3800			4350		4900		5450			6000	
<i>50 MPH</i>	8380			9590		10805		12015			13230	
90 KM/H	3570			4090		4605		5120			5640	
<i>55 MPH</i>	7870			9015		10150		11290			12435	
100 KM/H	3230			3700		4165		4630			5100	
<i>62 MPH</i>	7120			8155		9180		10205			11245	
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim		O-ring / Grommet [CAI]		Tube [CAI]		Flap [CAI]					
	9.50/1.7 CR		JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]		-		-					

IMPORTANT

The inflation pressure must always be appropriate for the load per tire, the speed of travel and the work to be done. Our recommendations above are provided subject to changes made after the date of publication of these tables (October 2020). Technical data is subject to change without prior notice.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
445/95R25 174F TL	738428 30097	80 50.0	-	442 17.4	1485 58.5	693 27.3	4542 178.8	25 1.0	-	-	11.00/1.7 CR	11.25/2 DC635x280 CR
Bar	5.0		6.0			7.0		8.0			9.0	
Psi	73		87			102		116			131	
Machine - Use kg - lbs	CRANE AND SIMILAR SPECIALIZED MACHINE											
30 KM/H	5340		6095			6850		7615			8375	
20 MPH	11775		13435			15100		16790			18465	
40 KM/H	4910		5605			6300		7005			7705	
25 MPH	10825		12355			13890		15445			16985	
50 KM/H	4780		5460			6140		6820			7505	
30 MPH	10540		12035			13535		15035			16545	
65 KM/H	4590		5240			5890		6545			7205	
40 MPH	10120		11550			12985		14430			15885	
70 KM/H	4485		5120			5755		6395			7035	
43 MPH	9890		11290			12690		14100			15510	
80 KM/H	4270		4875			5480		6090			6700	
50 MPH	9415		10750			12080		13425			14770	
90 KM/H	4015		4580			5150		5725			6300	
55 MPH	8850		10095			11355		12620			13890	
100 KM/H	3775		4305			4840		5380			5920	
62 MPH	8320		9490			10670		11860			13050	
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]		
	11.00/1.7 CR			JOINT TORIQUE OR 3-25 SULLA R1437 [553200]			-			-		

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
525/80R25 176F TL	086926 33880	80 50.0	-	528 20.8	1482 58.4	682 26.9	4508 177.5	28 1.1	-	-	17.00/1.7 CR	17.00/2.0
Bar	5.0			6.0			7.0					
Psi	73			87			102					
Machine - Use kg - lbs	CRANE AND SIMILAR SPECIALIZED MACHINE											
30 KM/H 20 MPH	6700 14770			7700 16975			8900 19620					
40 KM/H 25 MPH	6150 13560			7100 15655			8200 18080					
50 KM/H 30 MPH	6000 13230			6900 15210			8000 17635					
60 KM/H 35 MPH	5900 13005			6800 14990			7850 17305					
65 KM/H 40 MPH	5750 12675			6650 14660			7650 16865					
70 KM/H 43 MPH	5650 12455			6500 14330			7500 16535					
80 KM/H 50 MPH	5350 11795			6150 13560			7100 15655					
90 KM/H 55 MPH	5050 11135			5800 12785			6700 14770					
100 KM/H 62 MPH	4550 10030			5250 11575			6050 13340					
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]		
	17.00/1.7 CR			JOINT TORIQUE OR 3-25 SULLA R1437 [553200]			-			-		

IMPORTANT

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MICHELIN XGC

**HIGH SPEED RADIAL TIRE
FOR MOBILE CRANES
AND SPECIAL MACHINES**



For Mobile Cranes and Special Machines



HEAT RESISTANCE

Reinforced
sidewalls with
bridging rubber
between tread
blocks



COMFORT

Reinforced sidewalls

Non-directional tread
with bridging rubber
between tread blocks



EXCELLENT LIFE

Versatile tread with
independent tread blocks

Regroovable

TIRE SIZE: 445/80R25

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
445/80R25 170E TL	264520 30079	70 43.0	-	446 17.6	1352 53.2	625 24.6	4119 162.2	28 1.1	-	-	14.00/1.7 CR	14.00/1.5
Bar	5.0			6.0			7.0					
Psi	73			87			102					
Machine - Use kg - lbs	CRANE AND SIMILAR SPECIALIZED MACHINE											
30 KM/H 20 MPH	5650 12455			6750 14880			7800 17195					
40 KM/H 25 MPH	5400 11905			6450 14220			7450 16425					
50 KM/H 30 MPH	5150 11355			6150 13560			7100 15655					
60 KM/H 35 MPH	5565 12270			6030 13295			6720 14815					
65 KM/H 40 MPH	4650 10250			5550 12235			6450 14220					
70 KM/H 43 MPH	4350 9590			5200 11465			6000 13230					
80 KM/H 50 MPH	3600 7935			4250 9370			4950 10915					
90 KM/H 55 MPH	3050 6725			3650 8045			4200 9260					
100 KM/H 62 MPH	2650 5840			3150 6945			3600 7935					
TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim			O-ring / Grommet [CAI]			Tube [CAI]			Flap [CAI]		
	14.00/1.7 CR			JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]			-			-		

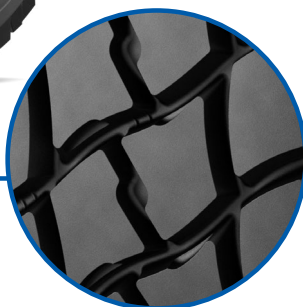
IMPORTANT

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MICHELIN XMH S



**E2S RADIAL TIRE, FOR
LONG DISTANCE TRANSPORT
AT HIGH SPEEDS**



Special Vehicles



MORE PRODUCTIVITY¹

Optimized crown structure

Rubber compound &
design allowing long
distance with a high wear
resistance

Massive tread

“Land to sea” ratio
increased

Improved wear form
(tread blocks) design



MORE COMFORT & TRACTION¹

Tread pattern with offset blocks
and progressive contact ground



MORE SAFETY FEATURES¹

Heavily blocked
tread pattern with
longitudinal &
lateral grooves

TIRE SIZES: 385/95R24, 385/95R25

¹ Internal comparison between the MICHELIN® XMP 170 E and the MICHELIN® XMH S of the same dimension, measurements certified by the Michelin® Center of Technology.

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
385/95R24 E2 170E TT	957157 12407	70 43.0	-	389 15.3	1361 53.6	632 24.9	4155 163.6	24 0.9	-	-	10.00W	10.0/2.0 9.0 9.00V
Bar	5.0		6.0		7.0		8.0		9.0			
Psi	73		87		102		116		131			
Machine - Use kg - lbs	CRANE AND SIMILAR SPECIALIZED MACHINE											
30 KM/H 20 MPH	4860 10715		5880 12965		6460 14240		7000 15430		7800 17195			
40 KM/H 25 MPH	4635 10220		5610 12370		6165 13590		6675 14715		7450 16425			
50 KM/H 30 MPH	4410 9720		5340 11775		5865 12930		6355 14010		7100 15655			
60 KM/H 35 MPH	4190 9235		5070 11175		5565 12270		6030 13295		6720 14815			
65 KM/H 40 MPH	4020 8865		4865 10725		5345 11785		5790 12765		6450 14220			
70 KM/H 43 MPH	3740 8245		4525 9975		4970 10955		5385 11870		6000 13230			
80 KM/H 50 MPH	3085 6805		3735 8235		4100 9040		4445 9800		4950 10915			
90 KM/H 55 MPH	2620 5775		3170 6990		3480 7670		3770 8310		4200 9260			
100 KM/H 62 MPH	2245 4950		2715 5985		2980 6570		3230 7120		3600 7935			

IMPORTANT

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TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
385/95R25 170E TL	254174 21608	70 43.0	-	391 15.4	1361 53.6	632 24.9	4155 163.6	24 0.9	-	-	9.50/1.7 CR	10.00/1.5 11.25/1.3
Bar	5.0		6.0			7.0		8.0			9.0	
Psi	73		87			102		116			131	
Machine - Use kg - lbs	CRANE AND SIMILAR SPECIALIZED MACHINE											
30 KM/H 20 MPH	4860 10715		5880 12965			6460 14240		7000 15430			7800 17195	
40 KM/H 25 MPH	4635 10220		5610 12370			6165 13590		6675 14715			7450 16425	
50 KM/H 30 MPH	4410 9720		5340 11775			5865 12930		6355 14010			7100 15655	
60 KM/H 35 MPH	4190 9235		5070 11175			5565 12270		6030 13295			6720 14815	
65 KM/H 40 MPH	4020 8865		4865 10725			5345 11785		5790 12765			6450 14220	
70 KM/H 43 MPH	3740 8245		4525 9975			4970 10955		5385 11870			6000 13230	
80 KM/H 50 MPH	3085 6805		3735 8235			4100 9040		4445 9800			4950 10915	
90 KM/H 55 MPH	2620 5775		3170 6990			3480 7670		3770 8310			4200 9260	
100 KM/H 62 MPH	2245 4950		2715 5985			2980 6570		3230 7120			3600 7935	

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	9.50/1.7 CR	JOINT TORIQUE OR 2-25 HEUPO R1438 [553201]	-	-

MICHELIN X LISSE COMPACTEUR

A SLICK RADIAL TIRE FOR COMPACTORS



For Compactor



EXCELLENT FINISHING

Even contact pressure throughout the contact area because of the Radial construction



REDUCTION IN MACHINE DOWNTIME

The specialized design of the crown gives excellent resistance to heat



Robust tread and shoulders give more resistance to cuts and perforations

MICHELIN® Radial structure improves tire life

No traces left because of the smooth tread pattern and rounded shoulders



REDUCTION IN OPERATING COST

Wear indicators in the tire tread facilitate tread wear assessment

MICHELIN X LISSE COMPACTEUR

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION	CAI [MSPN]	Max. dist./ hour km [mile]	TKPH [TMPH]	Section width mm [in]	Outer diameter mm [in]	Static load radius mm [in]	Rolling circumference mm [in]	Tread depth mm [32nd]	Dual spacing mm [in]	Cap liter [gal]	Recommended rim	Other approved rims
7.50R15 C1 TT	123461 12568	-	-	198 7.8	770 30.3	338 13.3	2324 91.5	9 0.4	-	-	6.0	5.5* 6.00S 6.5
Bar	3.0	3.5	3.8	4.0	4.5	5.0	5.5	6.0	7.0	8.0		
Psi	44	51	54	58	65	73	80	87	102	116		
Machine - Use kg - lbs	COMPACTOR											
10 KM/H	1250	1400	1470	1540	1680	1830	1970	2120	2420	2725		
5 MPH	2755	3085	3240	3395	3705	4035	4345	4675	5335	6010		
15 KM/H	1020	1135	1190	1250	1375	1500	1600	1700	1980	2180		
10 MPH	2250	2500	2625	2755	3030	3305	3525	3750	4365	4805		

*OTHER APPROVED RIMS: B6.5

13/80R20 C1 TT	240750 06569	-	-	322 12.7	1050 41.3	470 18.5	3160 124.4	12 0.5	-	-	9.0	7.33V-7.5* 8.00V-8.5 9.00V-10.0- 10.00V
Bar	3.0	4.0	5.0	6.0	7.0	8.0	8.5	9.0				
Psi	44	58	73	87	102	116	123	131				
Machine - Use kg - lbs	COMPACTOR											
10 KM/H	2520	3100	3660	4260	4840	5420	5710	6000				
5 MPH	5555	6835	8070	9390	10670	11950	12590	13230				
15 KM/H	2240	2760	3260	3790	4310	4820	5000					
10 MPH	4940	6085	7185	8355	9500	10625	11025					

*OTHER APPROVED RIMS: B7.5-8.0, B8.0-8.0V, B8.5-8.50V

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	9.0	JOINT CORNIERE A-20 TYRAN R1443 [553004]	-	-

15.00R24 C1 TT	252211 23826	-	-	415 16.3	1334 52.5	592 23.3	4002 157.6	21 0.8	-	-	10.0	10.00W* 10.0W 9.0
Bar	3.0	4.0	5.0	6.0	6.5	7.0	7.5	8.0	8.5			
Psi	44	58	73	87	94	102	109	116	123			
Machine - Use kg - lbs	COMPACTOR											
10 KM/H	5320	6540	7750	8965	9570	10180	10790	11390	12000			
5 MPH	11730	14420	17085	19765	21100	22445	23790	25110	26455			
15 KM/H	4740	5820	6900	7980	8520							
10 MPH	10450	12830	15210	17595	18785							

*OTHER APPROVED RIMS: 9.00V

TUBELESS MOUNTING ACCESSORIES AVAILABLE	Recommended rim	O-ring / Grommet [CAI]	Tube [CAI]	Flap [CAI]
	10.0	JOINT CORNIERE G-25 ICERU R1237 [553012]	-	-

MICHELIN X FORCE ZH

**RUN HARDER, KEEP COOL,
GET MORE ROBUSTNESS &
TRACTION ON WORKSITES
AND QUARRIES**

For engineering vehicle, concrete pump, concrete truck/ concrete mixer,
self-loading mixer, fire rigid truck, utility rigid truck



MOBILITY

The right pressure
whatever the terrain

From 2.9 to 6.9 bars¹
(From 42 to 100 PSI)

From sand to road, keep
always the right pressure
to optimise the contact
patch & enhance your
mobility



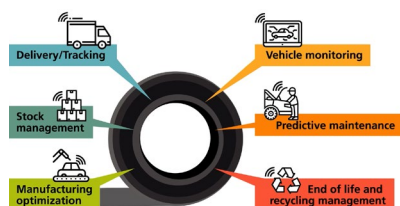
COMPATIBLE
WITH CTIS

from **TELEFLOW**
CALL OF MOBILITY

ENERGY EFFICIENCY

Traceability, efficiency & safety
throughout tire lifecycle

Efficiency and operation
optimisation of tire management
during the whole lifecycle



scan me to watch video

TIRE SIZE: 325/95 R 24



ROBUSTNESS

Increased TKPH (Ton
Kilometre Per Hour)

+28%² of TKPH for
MICHELIN X FORCE ZH vs
MICHELIN XDL without
compromising tire life

¹ Conditions: Load: 4250 kg (9370 lbs)/ per tire in single mounting; Tested size: 325/95 R 24

² Conditions: Load capacity comparison between 325/95 R 24 MICHELIN X FORCE ZH & 12.00 R 24 MICHELIN XDL

MICHELIN X FORCE ZH

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI	MSPN	NOMINAL LOAD PER AXLE (SINGLE TIRE)		NOMINAL LOAD PER AXLE (DUAL TIRE)		NOMINAL SPEED		RECOMMENDED PRESSURE		RECOMMENDED RIM
				KG	LBS	KG	LBS	KM/H	MPH	BAR	PSI	
13 R22.5	X FORCE ZH TL 154/150G	308831	-	7500	16540	13400	29560	90	55	8.0	116	9.00
315/80 R22.5	X FORCE ZH TL 156/150G	668200	-	8000	17640	13400	29560	90	56	8.5	123	9.00
325/95 R24	X FORCE ZH TL 167/164F	396741	35344	10900	24000	20000	44000	80	50	9.0	130	9.00

MICHELIN X FORCE ZL/ X FORCE Z/ XZL/ XZL+

**SPECIALLY DESIGNED FOR
OFF-ROAD VEHICLES THAT
DRIVE ON ALL TERRAIN
AND REQUIRE MAXIMUM
MOBILITY & ROBUSTNESS**



For fire rigid truck, utility rigid truck,
engineering vehicle



SAFETY



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Run-flat test following
finabel protocol

+50%¹ km performance for
MICHELIN X FORCE ZL vs
MICHELIN XZL+

Run flat test: 3km at
90km/h, 22km at 50km/h
and 25km/h until the end
of the test



COMPATIBLE
WITH CTIS

from **TELEFLOW**
CALL OF MOBILITY



MOBILITY

**+13%³ Better acceleration
ratio**

Ratio: (Distance to reach 25km/h, starting from
10km/h with SRTT)/Distance to reach 25km/h,
starting from 10km/h with tested tire) on
compacted snow, average of 6 runs



VERSATILITY



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Resistance to aggressions
-25%² Tread loss weight
Result after 6 runs on rocky
slope

TIRE SIZES: 14.00 R 20, 16.00 R 20

¹ Conditions "Finabel" protocol with drilled tires (not shot) lead in real conditions / Vehicle: Unimog 4x4; Load: 5000 kg; Tested size: 14.00 R 20

² Condition: full acceleration on a rocky slope/Vehicle: Unimog 4x4; Load: 5000 kg; Tested size: 14.00 R 20

³ Condition: 3PMSF protocol with SRTT 315/70 / Vehicle: Volvo FM500; Load: 5000 kg; Tested size: 14.00 R 20

MICHELIN X FORCE ZL / X FORCE Z / XZL / XZL+

TECHNICAL CHARACTERISTICS

Load capacity (kg & pound) based on inflation pressure (bar & psi) and speed (km/h & mph).

DESCRIPTION		CAI	MSPN	NOMINAL LOAD PER AXLE (SINGLE TIRE)		NOMINAL LOAD PER AXLE (DUAL TIRE)		NOMINAL SPEED		RECOMMENDED PRESSURE		RECOMMENDED RIM
				KG	LBS	KG	LBS	KM/H	MPH	BAR	PSI	
FLAT EDGE RIM												
255/100 R16	XZL TL 126K	110650	70864	3400	7496	-	-	110	68	4.5	65	6.50H
325/85 R16	X® FORCE Z TL 140K	881538	09051	5000	11020	-	-	110	68	5.0	75	9.00
11.00 R16	XZL TL 135K	109142	-	4360	9610	-	-	110	68	5.5	80	6.50H
275/80 R20	X® FORCE ZL TL 137/135K MPT	825919	-	4600	10140	8720	19220	110	68	5.5	80	9.00W
335/80 R20	X® FORCE ZL TL 150K MPT	420813	25677	6700	14780	-	-	110	68	6.5	94	11.00
365/80 R20	X® FORCE ZL TL 158K MPT	892903	59234	8500	18740	-	-	110	68	6.5	94	11.00
	XZL TL 152K MPT	110081	97627	7100	15660	-	-	110	68	6.0	90	11.00
365/85 R20	X® FORCE ZL TL 164K	229101	87016	10000	22000	-	-	110	68	7.6	110	10.00W
	XZL TL 164G	109374	56389	10000	22000	-	-	90	55	7.5	116	10.00W
395/85 R20	X® FORCE ZL TL 168/165K	364636	91291	11200	24600	20600	45600	110	68	8.6	125	10.00W
	XZL TL 168G	110013	54331	11200	24600	-	-	90	55	8.5	120	10.00W
12.00 R20	XZL TL 154/149K	110132	02383	7500	16540	13000	28640	110	68	8.5	120	8.50
14.00 R20	X® FORCE ZL TL 168/165K	249003	38644	11200	24600	20600	45600	110	68	8.6	125	10.00W
	XZL+ TL 164/160J	323281	71701	10000	22000	18000	39680	100	62	7.6	110	10.00W
16.00 R20	X® FORCE ZL TL 174/171J	143659	06799	13400	29600	24600	54400	100	62	7.6	110	10.00W
	XZL TL 173/170G	123357	06306	13000	29080	24000	52920	90	55	7.5	110	10.00W
24.00 R21	XZL TL 176G	110257	76025	14200	31400	-	-	90	55	6.0	85	18.00
415/80 R685 TR	X® FORCE ZL TL 168K	275224	-	11200	24600	-	-	110	68	8.5	123	230-685TR
DROP CENTRE RIM												
13 R22.5	XZL TL 154/150K	109668	-	7500	16540	13400	29560	110	68	8.0	120	9.00
445/65 R22.5	XZL TL 168G	110142	84103	11200	24600	-	-	90	60	8.0	120	14.00

MICHELIN TECHNICAL DATA

EARTHMOVER TIRES

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MICHELIN EARTHMOVER TIRES FOR TRANSPORT MACHINES K COEFFICIENT CALCULATED AND USED FOR THE TKPH (TMPH) METHOD

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APPROXIMATE LOOSE MATERIAL DENSITIES (t/m³)

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APPROXIMATE LOOSE MATERIAL DENSITIES UNITS OF MEASURE AND CONVERSION TABLES

UNITS OF MEASURE AND CONVERSION TABLES

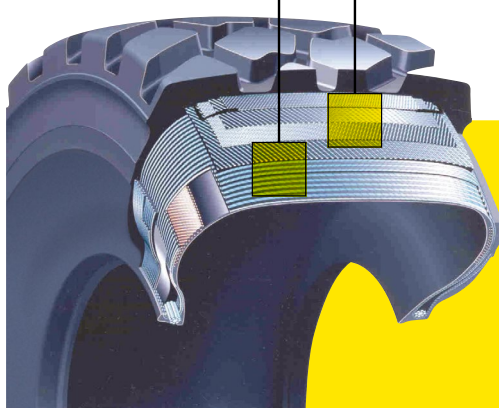
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COMPARISON BETWEEN BIAS AND RADIAL TIRES

THE MICHELIN® X® RADIAL



The casing has only one Radial ply.

The crown is stabilized by several plies.

The sidewall and tread function separately.

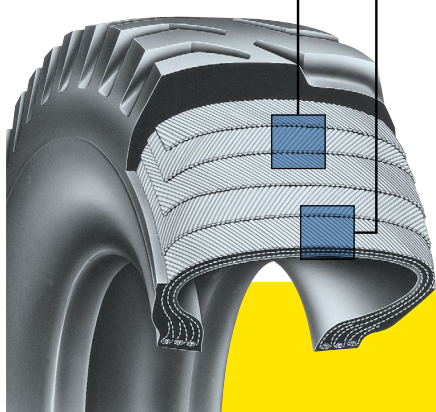
The tread is unaffected by the flexing of the sidewalls, so there is:

- Less deformation of the tire contact area on the ground
- Less movement in tread contact area
- No movement between casing plies

Advantages:

- Long tire life
- Outstanding 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
- Protects property and persons

BIAS OR CROSS-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 tire contact area on the ground
- Movement in the tread contact area.

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

ADVICE AND RECOMMENDATIONS ON THE USE OF MICHELIN EARTHMOVER TIRES

*The following information is extracted from the
Use and Maintenance Guide of MICHELIN® Earthmover Tires.
For more details, visit our website www.michelinearthmover.com
or contact your Michelin® Representative.*



The tire is the only point of contact between the machine and the ground. Users must ensure that they preserve the life and performance of their tires. To do so, it is recommended that users adhere to the following safety instructions and usage recommendations. These recommendations are subject to more restrictive local provisions: legal, regulatory requirements, etc.

CHOICE OF TIRE

The choice of a tire must be compliant with legislation and with equipment recommended by the vehicle or tire manufacturer or by an official organization (size, load and speed indices, tire structures, etc.).

Additionally, it is necessary to take into account the conditions in which the tire will be used in order to ensure its performance can meet the user's expectations. The type of tread pattern depends mainly on conditions of use encountered: adherence, risk of cuts, rapid wear. The optimum performance of equipment depends largely on the choice of tire.

The use of a tread pattern or a tread pattern inappropriate for the work leads to a sharp reduction in the tire's life and may affect vehicle productivity.

In the event of the original vehicle equipment being modified, it is advisable to make sure that the solution

offered is compliant with the legislation in force, the machine's technical constraints, conditions of use and the manufacturer's recommendations. Please refer to regulations in force in the local country.

Before being fitted, any secondhand or used tire must be subjected to careful inspection by a specialist tire professional in order to guarantee the safety of the user and compliance with the regulations in force (Vehicle Checks and Maintenance).

USE OF TIRES

GENERAL RECOMMENDATIONS

Never use the tire beyond the limits of the technical specifications for which it has been approved on the machines.

Certain excessive or abnormal geometrical settings for the machines may have a negative effect on the tire's performance.

Poor use or wrong choice of tire can also contribute to premature wearing of certain mechanical parts.

According to the current legislation and/or to the technical or safety recommendations, both tires on the same axle must be identical.

DUAL MOUNTING

For technical and safety reasons, you must adhere to the recommendations of the manufacturer of the machine.

We advise against the following mountings:

- Dual mounting of MICHELIN® Radial tires with cross-ply (bias) tires
- Dual mounting of a tire of normal tread depth with a deep-treaded tire
- Dual mounting of tires of the same type which have different remaining tread depths (some legislation sets a maximum differential)

ADVICE AND RECOMMENDATIONS ON THE USE OF MICHELIN EARTHMOVER TIRES

FITTING

INTRODUCTION



Correct fitting, performed in accordance with recommended operating procedures and complying with the safety rules in force, ensures excellent protection for people and materials and allows the tires' full potential to be exploited.

Poor fitting can cause damage to the tires, the vehicle and/or cause serious injury or even death.

It is therefore essential that these operations are carried out by people who have been trained and who have the appropriate equipment available, and in accordance with the procedures.

We strongly recommend that tire fitting is undertaken by a trained tire professional with proper equipment.

Tube-type tires must be fitted with an appropriate flap and inner tube.

In all cases, it is essential to refer to the technical instructions of the tire manufacturer, vehicle manufacturer and wheel manufacturer, as well as the user manual for the tire-fitting machinery or equipment.

GENERAL PRECAUTIONS

Operators must always wear appropriate protective equipment.

Operators must know recommended procedure.

Operators must ensure that the vehicle is stopped, secured (LOTO) and properly stabilized (parking brake engaged, blocks), and motor turned off.

PRECAUTIONS FOR REMOVAL

a) When removing the vehicle wheel

If the tire is twin-fitted or if the rim shows evidence of damage, **the tires must be deflated prior** to removal of the whole fitment (remove the valve core). Failure to observe this could lead to accidents with very serious consequences. Comply with the manufacturers' recommendations and instructions when removing a tire.

b) When the tire is removed from the vehicle

Completely deflate the tire before any operation.

PRECAUTIONS FOR FITTING

- Ensure that the wheel and its components are in good condition
- Verify the compatibility of the tire and the wheel (wheel authorized for the tire) and the pressure capacity of the wheel
- Adhere to the positions, direction of fitting, direction of rotation and any other instructions referred to on the tire sidewall.
- In the case of multi-piece wheels, replace the o-ring seal
- In the case of tubeless mounting
 - With a rubber valve, this must be systematically replaced
 - With metallic valves, check the air tightness and continue with the replacement of valve cores or seals if necessary
- After fitting the tire to the vehicle, a torque wrench must be used to achieve the optimal torque as specified by the machine manufacturer.

PRECAUTIONS FOR INFLATING

Tire inflation is an essential factor, not only for optimization of tire performance but also in terms of SAFETY.

It is necessary for correct machine behavior (road holding and braking) as well as maintaining the tire's stability.

Only use inflation equipment intended for this purpose and fitted with a pressure limiter.

Everyone should be in the "Safety" zone (see diagram) during tire inflation. The red zone represents the area of greatest risk for being in the path of any potential discharge in the event of an incident.



* A minimum distance of 6 meters or 20 feet is required from the valve to the safety zone indicated in the diagram.

ADVICE AND RECOMMENDATIONS ON THE USE OF MICHELIN EARTHMOVER TIRES

OPERATING PRESSURE

The inflation pressure must follow the manufacturer's recommended inflation pressure.

In the absence of real data used to determine the tire pressure (weighing results, driving conditions, etc.), the operating pressure should be given only by the Michelin Representative or by a qualified professional who is trained to take into account the working conditions of the tire (ground conditions, cycle lengths, transported materials, etc.).

Underinflation or overinflation can significantly affect tire performance.

Running underinflated causes an abnormal rise in temperature of the tire and can cause the degradation of its components. This degradation is irreversible and may lead to damage of the tire, causing rapid deflation. The consequences of running with insufficient pressure are not necessarily immediate and may appear even after rectification of the tire inflation pressure.

STORAGE AND MAINTENANCE



Tires are rubber-based and are affected by conditions of storage and use.

Storage does not adversely affect the life of the tire, but it must be under specific conditions, limited in time, and as far as possible inside.

- In premises that are well-ventilated, dry and temperate, protected from direct sunlight and bad weather
- Away from any chemical substances, solvents or hydrocarbons likely to interfere with the nature of the rubber
- Away from any object that could penetrate the rubber (sharp metal, wood, etc.)
- Away from any source of heat, flame, incandescent object, material that could cause sparks or electrical discharges and any ozone sources (transformers, electric motors, soldering devices, etc.).

Poor handling of an unfitted tire can cause it to be irreparably damaged.

In order to eliminate the risk of bead damage and the problems which could result, we strongly advise that:

- 1 - The tire is not lifted directly by the bead with a crane hook.
- 2 - Flat straps are used (not steel slings or chains).
- 3 - The tire is lifted under the tread and not on the beads when a forklift truck with telescopic forks is used.

Moreover, accessories must be stored in their original packaging, on surfaces that do not present any danger of cutting, tearing or perforation.

In all cases, for the handling of tires and accessories, operators must

- Be equipped with protective clothing
- Observe the safety policies of the company
- Use suitable material/equipment for the job
- Not use instruments and/or equipment that may be harmful to tires

For more information, especially for terms and conditions of storage and height stacking of the tires, see Chapter 3 of the Use and Maintenance Guide.

ADVICE AND RECOMMENDATIONS ON THE USE OF MICHELIN EARTHMOVER TIRES

MACHINE CHECKS AND MAINTENANCE

GENERAL RECOMMENDATIONS

Ensure that the machine is stationary and secured before any inspection.

Tires must be inspected regularly in order to detect any unusual wear and potential damage.

Wheel torque must be checked in accordance with the machine manufacturer's recommendations.

Any perforations, cuts or visible distortion of the tread, sidewalls or flange area must be the subject of a thorough examination of the tire by a tire professional. It is the same for any damage to the rim. In all circumstances, do not put a tire that exhibits damage back into operation, such as deformed bead or visible bead wire, separations between components, visible cable cords, damage from petroleum products or corrosive particles, marbling or abrasion of the interior rubber resulting from any running at insufficient pressure.

Each time the machine is inspected, check that the valve cap is in good condition. If in doubt, replace it.

CHECKING FOR WEAR



Checking for wear must always be carried out at several points on the tire.

This check can be carried out using a tire depth gauge or by looking for signs of wear on the tread (noted on the sidewall by a symbol when present).

If the legal or technical limit for wear has been reached, the tire must be removed and replaced.

A tire professional should be consulted if there is abnormal wear or a difference in wear between two tires on the same axle.

REPAIR

Not all damage can be repaired.

All repairs must be carried out by a trained and qualified tire professional.

A qualified tire professional should perform a detailed inspection of the tires before repairs can be made. A tire that has been run underinflated or flat



may have suffered irreversible damage and only an exhaustive check of the interior of the tire will enable a diagnosis of whether or not the tire can be put back into use.

Therefore, removal of the tire is essential in order to assess with certainty its actual condition and the type of repair required.

PRESSURE

Given that a tire loses pressure naturally, it is necessary to adjust it periodically.

This check will enable any abnormal loss of pressure to be detected.

This check must be carried out on all the vehicle's tires.

A tire operated with insufficient pressure will undergo an abnormal rise in operating temperature, which can lead to irreversible damage of internal components and cause its complete destruction, to include rapid deflation of the tire. The consequences of running with insufficient inflation pressure are not necessarily immediate and may appear even after rectification.

Excessive pressure can cause rapid and irregular wear, resulting in increased susceptibility to impacts (tread damage, rupture of the casing, etc.).

It is recommended that tire pressures are checked when tires are cold. If they are checked after running, the tires are hot and pressure will not be accurate.

If pressure is checked when hot, the pressure should be readjusted according to the manufacturer's recommendations (consult your Michelin Representative).

Given that pressure increases with temperature, a hot tire must never be deflated.

Always respect the equality of pressure between dual tires.

Inflation with nitrogen is not an exemption from the need to check tire pressure regularly.

In all circumstances, adhere to the pressures recommended by the machine or tire manufacturers.



ADVICE AND RECOMMENDATIONS ON THE USE OF MICHELIN EARTHMOVER TIRES

PRODUCT LIFE

Tires are made from different types of materials and rubber-based components, whose properties are essential to the proper running of the tire itself. These properties evolve over time.

For each tire, this evolution depends on many factors, such as climate, storage conditions (temperature, humidity, position, etc.), and conditions of use (load, speed, inflation pressure, road damage, etc.) to which the tire is subjected during its working life.

These in-use conditions vary so much that it is impossible to predict the life of a tire with any accuracy. This is why, in addition to regular user checks, it is recommended to have the tires regularly checked by a qualified tire professional, who will determine whether the tire is fit to continue in operation.

Michelin may in no way be held responsible for damage that may occur as a result of use contrary to its instructions.

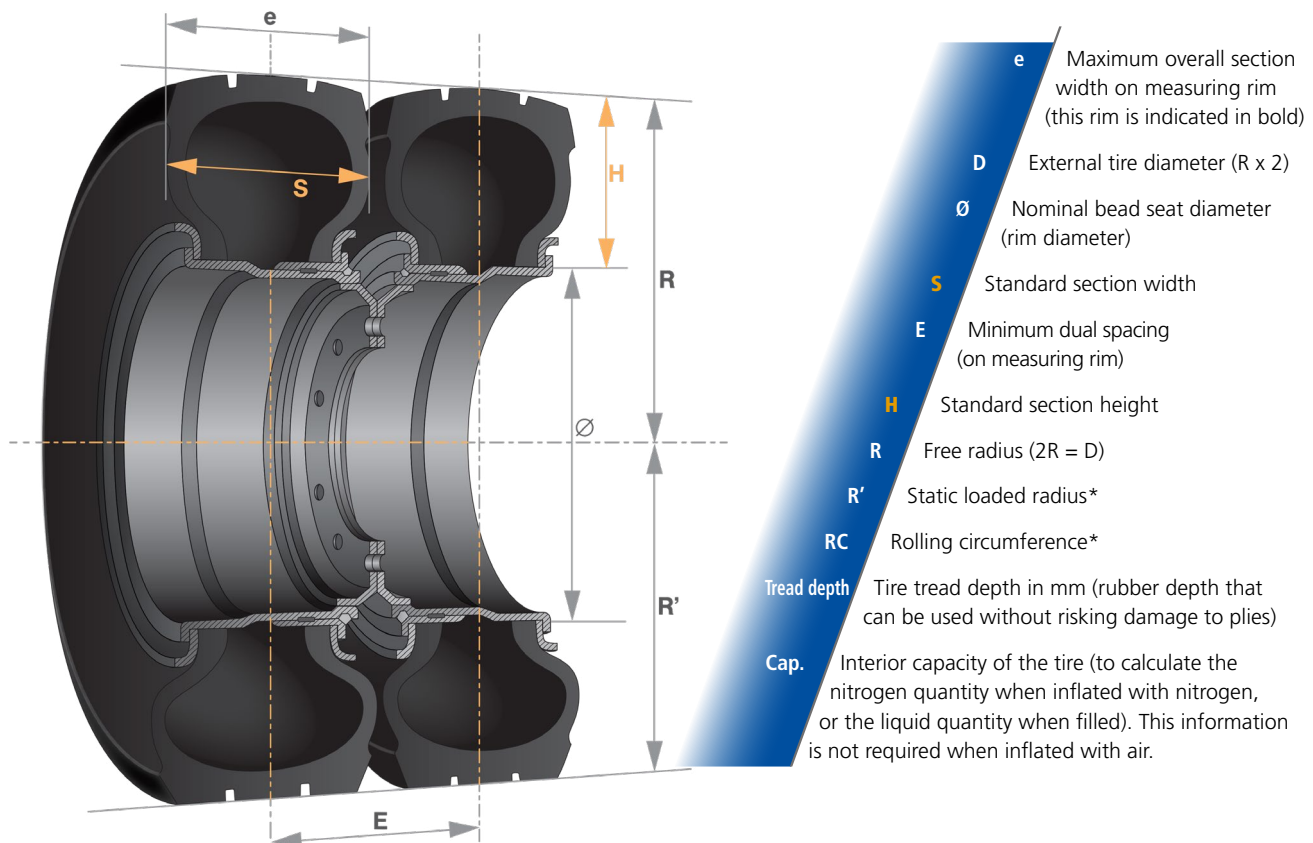
The preceding information is extracted
from the **USE AND MAINTENANCE GUIDE
FOR MICHELIN® EARTHMOVER TIRES.**

For more details, consult our website
business.michelinman.com
OR YOUR MICHELIN REPRESENTATIVE.



ADVICE AND RECOMMENDATIONS ON THE USE OF MICHELIN EARTHMOVER TIRES

EXPLANATION OF THE DIFFERENT MEASUREMENTS



EXPLANATION OF THE DIFFERENT MEASUREMENTS

*Determined by the reference conditions.

The dimensional data given in tabular form in this publication (as indicated above) conforms to those of the European Standard (E.T.R.T.O.). They are given for information only and may change.

READING GUIDE FOR LOAD, PRESSURE AND USE TABLES

Remember: the correct pressure for the tire (on a site and for a job) depends on the working conditions and type of use.

In order to obtain optimum performance from the tire, it is advised that:

- The machine is weighed under working loads
- The maximum distance allowed per hour for the tire is not exceeded

The shaded box of pressure, load and use tables is the value defined by the industry standards. Up to this limit, the tire works in an optimal zone leading to a better balance of performance.

The use of MICHELIN® Earthmover tires outside the specification of pressure, load and use tables must have a prior technical validation given by your Michelin® Representative.

CLASSIFICATION OF MICHELIN TIRES

ACCORDING TO THEIR ASPECT RATIO

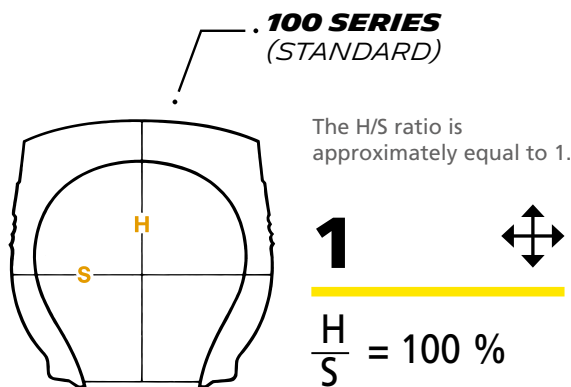
The wide diversity of earthmover machines and their uses requires the development of numerous ranges of tires.

Earthmover tires differ from those mounted on cars or commercial vehicles by:

- Their size and weight
- Their tread depths, which are proportionally greater
- More reinforcements to deal with the harsher conditions of use

There are several families of earthmover tires, characterized by their aspect ratio H/S (ratio in % between the height of the sidewall H and the section width of the tire S).

H = standard section height (see page 139) **S** = standard section width (see page 139)

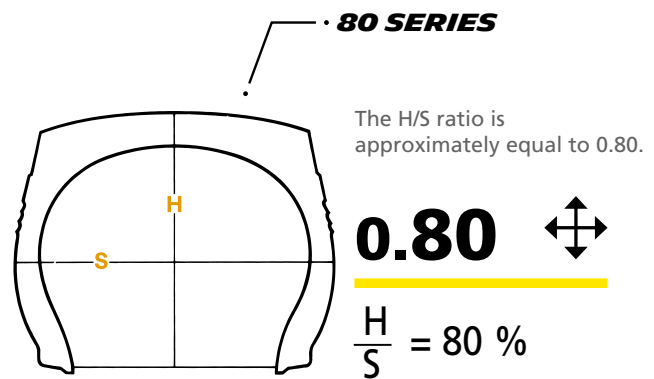


The section width is expressed in inches with two decimal places.

Examples: 18.00 R 33

Tires for rigid trucks, handling equipment, etc.

The aspect ratio is not indicated in the size designation.



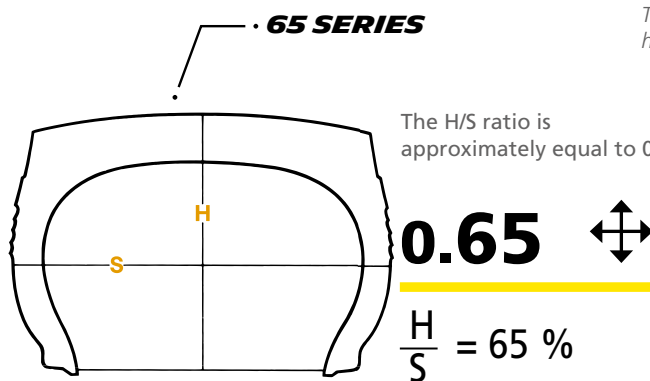
The section width is expressed in inches and fractions of an inch.

Examples: 8.25 R 15, 20.5 R 25

The aspect ratio is not indicated in the size designation or in inches followed by the number 80

Example: 59/80 R 63

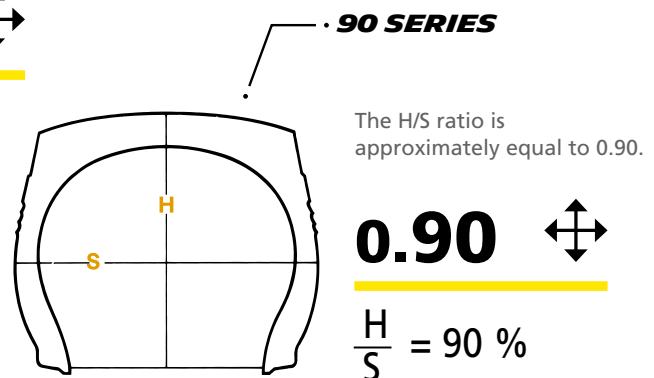
Tires for rigid trucks, articulated dumpers, loaders, handling equipment, etc.



The section width is expressed in inches or in millimeters, followed by the number 65.

Examples: 35/65 R 33, 750/65 R 25

Tires for large loaders, articulated trucks, etc.



The section width is expressed in inches followed by the number 90.

Example: 50/90 R 57

Tires for rigid trucks

Other series of tires are also available: 95 series, 75 series, etc.

CLASSIFICATION OF MICHELIN TIRES

ACCORDING TO THE STANDARDIZED USAGE (ISO-ETRTO-TRA-JATMA*)

The four main categories of earthmover tire are defined by their use. The category to which it belongs is indicated on the sidewall of the tire.

This is an international classification:

- C** Compactor
- G** Grader
- E** Earthmoving
- SH** Subterranean Haulage
- L** Loader and bulldozer

* **ISO**: International Standard Organization
ETRTO: European Tyre and Rim Technical Organization
TRA: Tire and Rim Association
JATMA: Japan Automobile Tire Manufacturers Association

Within these categories, there are different tread depths and special tread patterns, for very specific uses.

These are identified by a number.

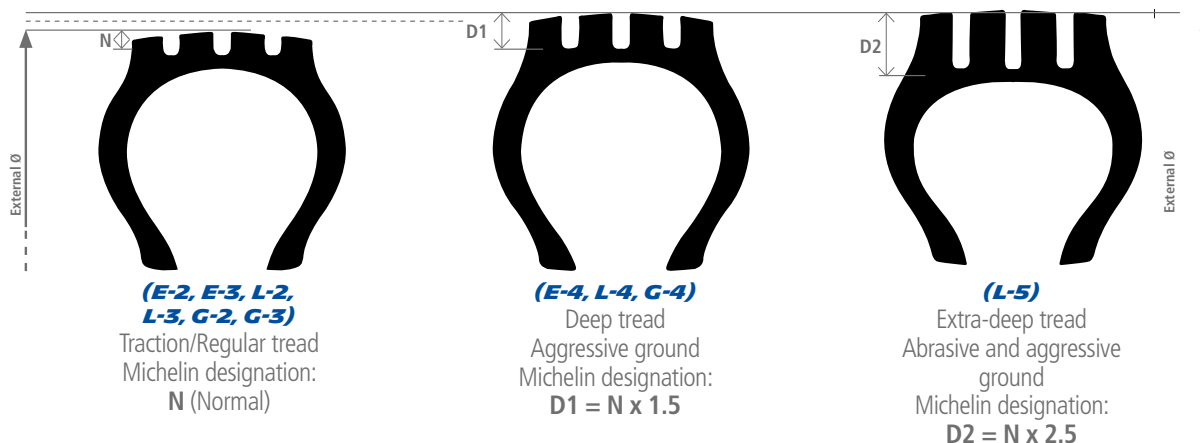
They must be chosen according to the type of ground and the tire's condition of use.

The letter "S" indicates a smooth tread; example: L-5S.

- 1** Ribbed (normal tread depth)
- 2** Traction (normal tread depth)
- 3** Normal (normal tread depth)
- 4** Deep Tread
- 5** Extra Deep Tread

ACCORDING TO THEIR TREAD DEPTHS

The tread depth *SUPER*, D1, D2 is sometimes indicated on the sidewall tire.



SUMMARY

CODE	TREAD PATTERN	APPLICATION
C-1	SMOOTH	Compactor
E-1	RIBBED	Transport
E-2	TRACTION	
E-3	REGULAR TREAD	
E-4	DEEP TREAD	
E-7	FLOTATION	
SH-3	REGULAR TREAD	Subterranean
SH-4	DEEP TREAD	Transport
G-1	RIBBED	Grader
G-2	TRACTION	
G-3	REGULAR TREAD	
G-4	DEEP TREAD	
G-5	VERY DEEP TREAD	
L-2	TRACTION	Loader Bulldozer
L-3	REGULAR TREAD	
L-4	DEEP TREAD	
L-5	VERY DEEP TREAD	
L-3S	SMOOTH REGULAR TREAD	
L-4S	SMOOTH DEEP TREAD	
L-5S	SMOOTH VERY DEEP TREAD	

In addition, Michelin provides complementary identification to some earthmover tires:
T = Traction, R = Rock, V = Speed, F = Flotation,
P = Multi-purpose, S/R = Smooth/Rock
e.g.: L-3T Normal tread depth tire (L-3; Standardized identification code) where traction is needed

TIRE MARKINGS

WHAT YOU CAN LEARN FROM THE SIDEWALL MARKING



MICHELIN® X MINE® D2

- 1 Nominal section width of the tire (in inches): 35
- 2 Tire series: aspect ratio = 0.65
- 3 Radial construction: R
- 4 Rim diameter (in inches): 33
- 5 Load index of the tire: **
- 6 Type of use: loader (L) with deep tread (5)
- 7 Radial tire
- 8 Tire for loader
- 9 Tubeless tire
- 10 Manufacturer: Michelin
- 11 Tread pattern: X MINE D2



MICHELIN® X-CRANE +®

- Radial construction
- Nominal section width of the tire (in mm): 525
- Tire series: aspect ratio = 0.80
- Rim diameter (in inches): 25
- Tubeless
- Brand: Michelin
- Tread pattern: X-CRANE +
- 12 Load index of the tire: 170
- 13 Reference speed symbol of the tire: F
- 14 Regroovable

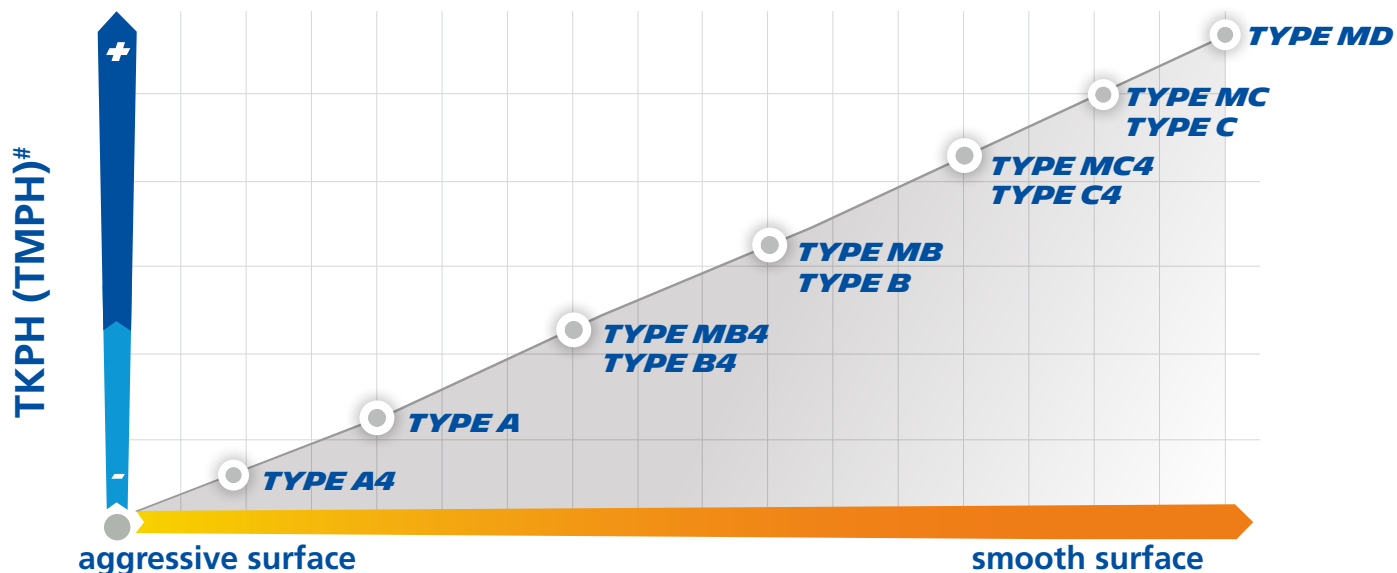


MICHELIN® XDR® 2

- Radial construction
- Nominal section width of the tire (in inches): 37
- Rim diameter (in inches): 57
- Tubeless
- Brand: Michelin
- 15 Tire compound: B4 (explanation page 147)
- Tread pattern: XDR 2
- Identification code: E4 (transport, deep tread)
- Load capacity: **

MICHELIN EARTHMOVER TIRE COMPOUNDS

	TYPES	DESCRIPTION	TKPH (TMPH)#
Aggression Resistant	A4	Particularly resistant to cuts, tread tearing and abrasion on very rough surfaces	Minimum
	A	Particularly resistant to cuts, tread tearing and abrasion at average speeds that are higher than those for A4 (above)	Low
Standard	B4	Compromise solution between abrasion resistance and average speed on rough surfaces	Moderate
	MB4	Same as Type B4 but with a higher wear resistance	
	B	Higher resistance to internal heat generation on surfaces that are not particularly rough	Average
	MB	Same as Type B but with a higher wear resistance	
Heat Resistant	C4	Adapted to running on long cycles at high speeds on well-maintained roads	High
	MC4	Same as Type C4 but with a higher wear resistance	
	C	Very high resistance to high average speeds on long cycles run on well-maintained roads	Very High
	MC	Same as Type C but with a higher wear resistance	
	MD	Maximum resistance to highest average speeds on long cycles run on well-maintained roads	



TKPH: Ton kilometer per hour
TMPH: Ton mile per hour
(#) see page 174



LOAD INDEX–SPEED SYMBOL

Some tires bear a load index and a speed symbol.

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

The *load index* is a numerical code which indicates the maximum load a tire can carry at the speed corresponding to its speed symbol, under specified conditions.

MAXIMUM LOAD			MAXIMUM LOAD			MAXIMUM LOAD			MAXIMUM LOAD			MAXIMUM LOAD		
LI	KG	LB	LI	KG	LB	LI	KG	LB	LI	KG	LB	LI	KG	LB
LI	kg	lb	LI	kg	lb	LI	kg	lb	LI	kg	lb	LI	kg	lb
120	1400	3080	154	3750	8250	188	10000	22000	222	26500	58400	256	71000	156500
121	1450	3200	155	3875	8550	189	10300	22700	223	27250	60000	257	73000	161000
122	1500	3300	156	4000	8800	190	10600	23400	224	28000	61500	258	75000	165500
123	1550	3420	157	4125	9100	191	10900	24000	225	29000	64000	259	77500	171000
124	1600	3520	158	4250	9350	192	11200	24700	226	30000	66000	260	80000	176500
125	1650	3640	159	4375	9650	193	11500	25400	227	30750	68000	261	82500	182000
126	1700	3740	160	4500	9900	194	11800	26000	228	31500	69500	262	85000	187500
127	1750	3860	161	4625	10200	195	12150	26800	229	32500	71500	263	87500	193000
128	1800	3960	162	4750	10500	196	12500	27600	230	33500	74000	264	90000	198500
130	1900	4180	164	5000	11000	198	13200	29100	232	35500	78500	266	95000	209500
131	1950	4300	165	5150	11400	199	13600	30000	233	36500	80500	267	97500	215000
132	2000	4400	166	5300	11700	200	14000	30900	234	37500	82500	268	100000	220500
133	2060	4540	167	5450	12000	201	14500	32000	235	38750	85500	269	103000	227000
134	2120	4680	168	5600	12300	202	15000	33100	236	40000	88000	270	106000	233500
135	2180	4800	169	5800	12800	203	15500	34200	237	41250	91000	271	109000	240500
136	2240	4940	170	6000	13200	204	16000	35300	238	42500	93500	272	112000	247000
137	2300	5080	171	6150	13600	205	16500	36400	239	43750	96500	273	115000	253500
138	2360	5200	172	6300	13900	206	17000	37500	240	45000	99000	274	118000	260000
139	2430	5360	173	6500	14300	207	17500	38600	241	46250	102000	275	121000	267000
141	2575	5680	175	6900	15200	209	18500	40800	243	48750	107500	277	128000	283500
142	2650	5840	176	7100	15700	210	19000	41900	244	50000	110000	278	132000	291000
143	2725	6000	177	7300	16100	211	19500	43000	245	51500	113500	279	136000	300000
144	2800	6150	178	7500	16500	212	20000	44100	246	53000	117000	280	140000	308500
145	2900	6400	179	7750	17100	213	20600	45400	247	54500	120000	281	145000	319500
146	3000	6600	180	8000	17600	214	21200	46700	248	56000	123500	282	150000	330500
147	3075	6800	181	8250	18200	215	21800	48100	249	58000	128000	283	155000	341500
148	3150	6950	182	8500	18700	216	22400	49400	250	60000	132500	284	160000	352500
149	3250	7150	183	8750	19300	217	23000	50700	251	61500	135500	285	165000	364000
150	3350	7400	184	9000	19800	218	23600	52000	252	63000	139000	286	170000	375000
151	3450	7600	185	9250	20400	219	24300	53600	253	65000	143500	287	175000	386000
152	3550	7850	186	9500	20900	220	25000	55100	254	67000	147500	288	180000	397000
153	3650	8050	187	9750	21500	221	25750	56800	255	69000	152000	289	185000	408000

SPEED SYMBOLS

The *speed symbol* indicates the maximum speed at which the tire can carry a load corresponding to its load index, under specified conditions.

CODE	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 tire marking:

23.5 R 25 X®-SUPER TERRAIN TL 185 B; this tire is able to carry 9250 kg at a speed of 50 km/h (20,390 lb at 31 mph)
445/95 R 25 X-CRANE® TL 174 F; this tire is able to carry 6700 kg at a maximum speed of 80 km/h (14,770 lb at 50 mph)

It is imperative:

- Not to exceed the permitted maximum speed of the tire.
- Not to exceed the permitted maximum distances in one hour as indicated in the tables of tire characteristics.
- Not to exceed the permitted TKPH
- That, at the time of fitting, the various markings be checked in order to be certain that the tire is suitable for operation at the maximum allowed vehicle speed and load.

EQUIVALENCE OF RESISTANCE INDEX (PR: PLY RATING)

To be used as a reference for the replacement of a bias ply tire by a MICHELIN® Radial tire.

SIZES AND MARKINGS	WORK MACHINES PR	TRANSPORT MACHINES PR	SIZES AND MARKINGS	WORK MACHINES PR	TRANSPORT MACHINES PR	SIZES AND MARKINGS	WORK MACHINES PR	TRANSPORT MACHINES PR
7.50 R 15	12		17.5 R 25 **	20	24	35/65 R 33 *	36	
8.25 R 15	12		18.00 R 25 *	24		35/65 R 33 ** (1)		
10.00 R 15			445/95 R 25 (174E, 177E, 177F)			35/65 R 33 E4**** L4**** (1)		
350/65 R 15 (1)			445/80 R 25 (170E)			37.5 R 33 **		48
14.5 R 15			18.00 R 25 **		36	21.00 R 35 **		44
400/80 R 15 (1)			20.5 R 25 *	24		24.00 R 35 **		48
9.00 R 20	16		20.5 R 25 **		28	29.5 R 35 **		40
10.00 R 20	16		505/85 R 25 (183E)			33.25 R 35 **		44
12.00 R 20	18		550/65 R 25 * (1)			37.25 R 35 **		48
E20 (13./80 R 20) (1)			21.00 R 25 **		40	37.5 R 39 **		52
14.00 R 20 (1)			23.5 R 25 *	28		40/65 R 39 *	42	
16.00 R 20			23.5 R 25 **		32	40.5/75 R 39 **		54
525/70 R 20.5			525/80 R 25 (179E)			45/65 R 39 * (1)		
24 R 20.5			600/65 R 25 * (1)			45/65 R 45 *	50	
24 R 21			650/65 R 25 (1)			24.00 R 49 **		48
12.00 R 24 ***	24	24	26.5 R 25 *	32		27.00 R 49 **		54
13.00 R 24 TG *	14		26.5 R 25 **		32	30.00 R 51 **		64
14.00 R 24 TG *	16		750/65 R 25 (1)			33.00 R 51 **		68
14.00 R 24	24		29.5 R 25 *	34		36.00 R 51 **		74
14.00 R 24 ***	28	32	29.5 R 25 **		34	50/65 R 51 ** (1)		
385/95 R 24 (170E, 170F)			850/65 R 25 (1)			37.00 R 57 ** (1)		
15.00 R 24 (17/80 R 24) (1)			26.5 R 29 **		34	40.00 R 57 **		78
16.00 R 24 TG *	16		775/65 R 29 (1)			50/80 R 57 ** (1)		
16.00 R 24 **		36	29.5 R 29 *	34		55/80 R 57 * (1)		
13.00 R 25 ***		28	29.5 R 29 **		40	50/90 R 57 ** (1)		
14.00 R 25 ***		32	33.25 R 29 **		44	60/80 R 57 (1)		
385/95 R 25 (170E, 170F)			800/65 R 29 * (1)			53/80 R 63 ** (1)		
15.5 R 25 *	16		875/65 R 29 (1)			55/80 R 63 ** (1)		
16.00 R 25 **		36	18.00 R 33 **		40	56/80 R 63 ** (1)		
395/80 R 25 (165E)			21.00 R 33 **		32	59/80 R 63 ** (1)		
17.5 R 25 *	16		33.5 R 33 **		44			

(1) No corresponding PR in these sizes which are only made in Radial construction.

TECHNOLOGY OF MICHELIN RADIAL CASING TIRES

A tire's construction is the key to its performance, and outstanding tire performance is a key competitive advantage for transport and working machines in the earthmover industry.

Earthmoving equipment can achieve outstanding performance by using Radial tires.

COMPOSITION

The Radial design combines metal or fabric plies, extending from one bead to the other, with a belt made of several steel plies designed to reinforce the crown of the tire.

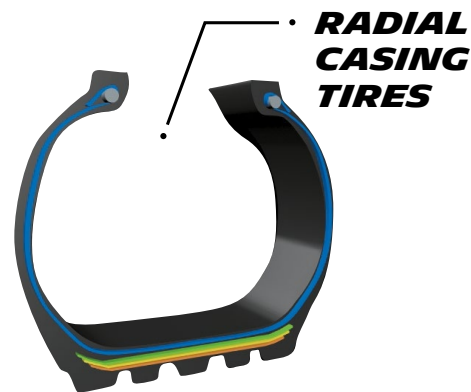
A UNIQUE CONSTRUCTION WITH NUMEROUS ADVANTAGES

The sidewalls and crown work independently:

- Minimizing the deformation of the contact patch and the weight of the tire
- Improving adhesion and traction while slowing down the rate of wear
- Increasing the load capacity as the metal casing can take higher inflation pressures

The flexibility of the sidewalls of a Radial tire therefore provides greater comfort with:

- No compromise on stability
- Better resistance to damage and punctures



TIRE PERFORMANCE LEVELS THAT TRANSFORM MACHINE PERFORMANCE

Michelin invented the Radial design and is an expert in this field. Radial tires significantly improve the productivity of earthmover machines. The Radial technology offers the best compromise between the following factors: load, speed, operational efficiency of the machines, tire service life, operator safety, etc.

Using a Radial tire also improves fuel economy and reduces the environmental footprint.

THE MICHELIN® XHA® 2 TIRE



23.5-25 BIAS

Two machines are launched at 30 km/h. After disengaging the motor, we measure the distance traveled. The machine equipped with MICHELIN® tires has less rolling resistance and therefore travels further. This equates to lower fuel consumption in operation.

Image from tests carried out in our research and development in Almeria in Spain.

ADVICE AND RECOMMENDATIONS ON THE USE OF MICHELIN EARTHMOVER TIRES

USE OF TIRES

FITTING OF TG MICHELIN® EARTHMOVER TIRES (24-INCH DIAMETER)

TG tires (MICHELIN® XGLA2™, MICHELIN® X-SNOPLUS®) must only be fitted on drop-center and semi drop-center or single-piece wheels.

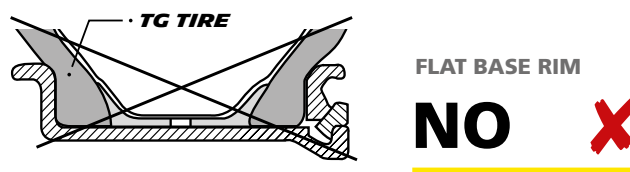
Do not fit these tires on flat-base rims, which are incompatible because they have differences in seat diameter.

FITTING OF 15.5 R 25* AND 17.5 R 25* MICHELIN® EARTHMOVER TIRES

L2* (MICHELIN® XTLA™ and MICHELIN® X-SNOPLUS®) and L3* (MICHELIN® XHA®) and the MICHELIN® X CRANE + dimension 445/95 R 25 can be fitted to:

- Multi-piece SDC or flat-base rims
- Single-piece rims

NOTE: L3** and L5 tires can only be fitted to multi-piece rims.



EXPLANATION OF THE DIFFERENT USES

Important: Load/pressure scales are classified according to different uses of machines.

LOADERS

Front Laden

This table is used in priority. The loads come from the weighing of the loader or the axle weight given by the manufacturer.

This is the pressure, load and use table built from the maximum reference point given by the standards.

For front tires of the loader, it is possible to increase the pressure value given in Table Front Laden up to 1 bar without changing the carrying capacity. The resulting pressure must remain below the maximum values of inflation pressure when the latter is specified (see previous page).

Rear Unladen

This table is used when the weight of the rear axle of the unladen loader is known or when the rear axle weight is given by the manufacturer.

COMPACTOR

10 and 15 km/h

These tables give the maximum work speeds of the compactors. In all cases, the indications and the instructions from the manufacturer must be applied (table indicating the pressure according to the work to be carried out).

UNDERGROUND MINING MACHINES

This is the table that is used for tires fitted to underground transport machines.



ADVICE AND RECOMMENDATIONS ON THE USE OF MICHELIN EARTHMOVER TIRES

GRADERS

All Axles

This is the table that is used when one has determined the axle load (by weight or by the manufacturer).

This table is derived from a reference speed of 40 km/h. For higher speeds, a reduction in carrying capacity, as shown in the table below, is applied in accordance with the standards (ex: Year Book TRA 2019, page 4-28).

SPEED OF USE (KM/H)	VARIATION IN LOAD CAPACITY (%)
40	0
50	- 9
60	- 18
65	- 27

TRANSPORT (RIGID DUMP TRUCKS, TRUCKS, ETC.), ARTICULATED DUMP TRUCKS, SCRAPERS

Standard

Table loads/pressures built from the reference point *Off-the-Road Haulage Service*. This is the table that is used when one has determined the axle load (by weighing or from the manufacturer's data).

CRANES AND SIMILAR SPECIALIZED MACHINES

Standard

This is the table *Load/Speed/Pressure* that is used to adjust the pressure at the desired load based on maximum rates of use for the tires fitted on vehicles (all-terrain, mobile cranes, intervention vehicles...).

There are two ranges of tires. Reference speed 70 km/h, Speed Symbol E or reference speed 80 km/h, Speed Symbol F.

USE IN DESERTS AND SIMILAR CONDITIONS

Depending on whether the vehicle is fitted as single or twin, the corresponding load table will be adopted.

1-Road in Single/Road in Twin:

These pressures are to be applied when the vehicle runs on good roads. (This means asphalt or compacted surfaces.) For these conditions, the pressures have been calculated for a maximum speed of 80 km/h (50 mph) or 65 km/h (40 mph) depending on the tire size considered.

2-Track in Single/Track in Twin:

These pressures are recommended for driving on roads in poor condition, washboard (corrugated) and gravel or desert surfaces.

For these conditions, the pressures have been calculated

for a maximum speed of 65 km/h (40 mph) if the speed on road is 80 km/h (50 mph)
or a maximum speed of 50 km/h (30 mph) if the speed on road is 65 km/h (40 mph)

3-Sand in Single/Sand in Twin:

These pressures are used to allow the vehicle to cross without difficulty the difficult areas where the problem of adhesion or depression can be important. To avoid premature depletion of the kilometeric performance, the speed must be limited

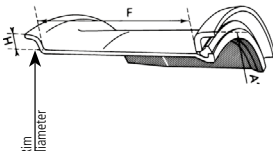
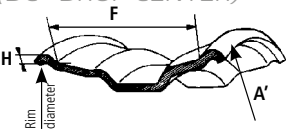
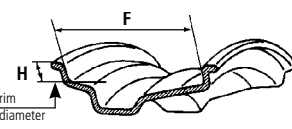
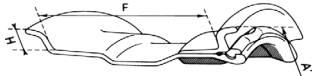
to 20 km/h (12.5 mph) if the speed on road is 80 km/h (50 mph)
to 15 km/h (9.3 mph) if the speed on road is 65 km/h (40 mph)

After sand use, the pressure must be readjusted for subsequent conditions of use (road or track).

COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

APPROVED RIMS FOR MICHELIN EARTHMOVER TIRES

Check that the rim support is at least the weight carried by the tire.

RIM TYPES	RIM DESIGN.	F MM INCHES	H (13) MM INCHES	D (14) MM INCHES		RIM R/A (15)	TIRE SIZES	SEAL			
								TL	TT		
FLAT-BASE RIMS 	15 - 6.00 S	152.4 6.0	33.3 1.3	387,0	381,0	A	7.50 R 15	None			
	20 - 7.33 V	186.2 7.3	44 1.7	511,2	508,0	A	9.00 R 20 X MINE D2	Tyran (A 20)	NA	2	
	20 - 8.00 V	203.2 8.0	44 1.7			A	E 20 (13/80 R 20) Pil XLC		NA	2	
						A	E 20 (13/80 R 20) Pil XLC		NA	2	
	20 - 8.50 V	215.9 8.5	44 1.7			A	12.00 R 20 X MINE D2		NA	2	
						A	E 20 (13/80 R 20) Pil XLC		NA	2	
	20 - 9.00 V	228.6 9.0	44 1.7			A	12.00 R 20 XMINE D2		NA	2	
						A	E 20 (13/80 R 20) Pil XLC		NA	2	
	20 - 10.00 V	254 10.0	44 1.7			A	E 20 P (13/80 R 20)		NA	2	
						R	16.00 R 20 XZL		2	2	
	20 - 10.00 W	254 10.0	51 2.0			511,0	A		14.00 R 20 X MINE D2	2	2
							A	16.00 R 20 XZL	None	2	2
	20 - 11.25	286 11.3	51 2.0	R		24 R 21	(OR 6.8-21)				
	24 - 7.33 V	186.2 7.3	44 1.7	612,8		609,6	A	12.00 R 24 ***	None		
					A		12.00 R 24 X MINE D2	G25	2	2	
		24 - 8.00 V	203.2 8.0		44 1.7		A	12.00 R 24 ***	None		
							A	12.00 R 24 X MINE D2	G25	2	2
		24 - 8.50 V	216 8.5		44 1.7		A	12.00 R 24 ***	None		
							A	12.00 R 24 X MINE D2	G25	2	2
		24 - 9.00 V	228.6 9.0		44 1.7		A	14.00 R 24 ***	None		
A							15.00 R 24 Pil	None			
24 - 10.00 W		254 10.0	51 2.0		A		14.00 R 24 ***	None	2	2	
					A		15.00 R 24 Pil	None	2	2	
15° TAPER DROP CENTER RIMS (DC - DROP CENTER) 	20.5 x 16.00	406.5 16.0	12.7 0.5	520,7	R	525/65 R 20.5					
	20.5 x 18.00	457 18.0	12.7 0.5		R	24 R 20.5					
5° TAPER DROP CENTER RIMS (DC - DROP CENTER) 	24 x 9.00/1.5	228 9.0	38 1.5	614,4	A	14.00 R 24 * TG	None				
	25 x 12.00/1.3	305 12.0	33 1.3	635,0	A	15.5 R 25 * L2 - L3					
	25 x 13.00/1.4	330 13.0	36 1.4		A	15.5 R 25 * L2 - L3					
					A	17.5 R 25 * L2 - L3					
	25 x 14.00/1.3	355 14.0	33 1.3		A	17.5 R 25 * L2 - L3					
	25 x 14.00/1.5	355 14.0	38 1.5		A	17.5 R 25 * L2 - L3					
	635 x 280 CR	280 11.0	43 1.7	A	445/95 R 25 X CRANE +						
5° TAPER SEMI-DROP CENTER RIMS (SDC - SEMI-DROP CENTER) 	24 - 8.00 TG SDC	203 8.0	35.5 1.4	614,4		13.00 R 24 * TG	Heupo (OR 2-25)				
	24 - 10.00 VA SDC	254 10.0	43 1.7		R	14.00 R 24 * TG					
					A R	14.00 R 24 * TG 16.00 R 24 * TG					

** R = Recommended - A = Allowed

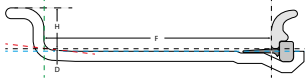
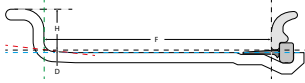


See note page about TG tire fitment.

COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

APPROVED RIMS FOR MICHELIN EARTHMOVER TIRES

Check that the rim support is at least the weight carried by the tire.

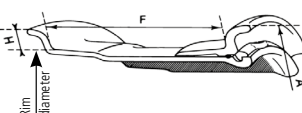
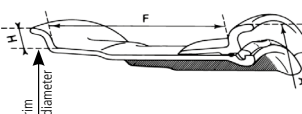
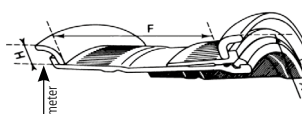
RIM TYPES	RIM DESIGN.	F MM INCHES	H ⁽¹³⁾ MM INCHES	D ⁽¹⁴⁾ MM INCHES		RIM R/A ⁽¹⁵⁾	TIRE SIZES	SEAL		
									TL	TT
5° TAPER BEAD SEAT RIMS  (Removable bead seat, split)	15 - B 6.5	165.1 6.5	38.1 1.5	385,8	385,8	A A	7.50 R 15 8.25 R 15	None		
	15 - 10.50	267 10.5	38 1.5			R A	14.5 R 15 350/65 R 15			
	20 - B 6.5	165.1 6.5	38.1 1.5			A	9.00 R 20			
	20 - B 7.0	177.8 7.0	38.1 1.5			A	9.00 R 20 X MINE D2	Tyrann (A 20)	NA	2
	20 - B 7.5	190.5 7.5	43.2 1.7	512,8	512,8	A	9.00 R 20 X MINE D2		NA	2
	20 - B 8.0	203.2 8.0	43.2 1.7			A	E-20 (13/80 R 20) Pil XLC		NA	2
	20 - B 8.5	216 8.5	45.7 1.8			A	12.00 R 20			
						A	E-20 (13/80 R 20) Pil XLC		NA	2
5° TAPER BEAD SEAT RIMS (ADVANCED RIM)  (Removable bead seat, split)	15 - 5.5	139.7 5.5	30.5 1.2			A	7.50 R 15	None		
	15 - 6.0	152.4 6.0	33 1.3			R A	7.50 R 15 8.25 R 15			
	15 - 6.5	165.1 6.5	35.6 1.4	387,4	387,0	A R	7.50 R 15 8.25 R 15			
	15 - 7.0	177.8 7.0	38 1.5			A	10.00 R 15 8.25 R 15			
	15 - 7.5	190.5 7.5	40.6 1.6			R	10.00 R 15			
	15 - 11.0	279.4 11	38 1.5			A	14.5 R 15			
	15 - 11.00 BD	279.4 11	36 1.4			A	14.5 R 15			
	15 - 11.50	292.1 11.5	38 1.5			A R R	14.5 R 15 350/65 R 15 400/80 R 15			
	20 - 6.5	165.1 6.5	35.6 1.4			A	9.00 R 20 X MINE D2	Tyrann (A 20)	NA	2
	20 - 7.0	177.8 7.0	38 1.5			R	9.00 R 20 X MINE D2		NA	2
	20 - 7.0 T	177.8 7.0	38.1 1.5			A	9.00 R 20 X MINE D2		NA	2
	20 - 7.5	190.5 7.5	40.6 1.6			A	9.00 R 20 X MINE D2		NA	2
						A	E 20 P (13/80 R 20)			
	20 - 8.0	203.2 8.0	43.2 1.7			A	12.00 R 20 X MINE D2		NA	2
						A	E 20 (13/80 R 20) Pil XLC		NA	2
	20 - 8.0 V	203.0 8.0	44.4 1.7	514,4	514,0	A	E 20 (13/80 R 20) Pil XLC		NA	2
	20 - 8.5	215.9 8.5	45.7 1.8			R	12.00 R 20 X MINE D2		NA	2
						A	E 20 (13/80 R 20) Pil XLC		NA	2
	20 - 8.5 V	216 8.5	44.4 1.7			A	12.00 R 20 X MINE D2		NA	2
						A	E 20 (13/80 R 20) Pil XLC		NA	2
	20 - 9.0	228.6 9.0	48.3 1.9			A	12.00 R 20 X MINE D2		NA	2
						R	E 20 (13/80 R 20) Pil XLC		NA	2
	20 - 10.0	254 10.0	50.8 2.0			A	E 20 (13/80 R 20) Pil XLC		NA	2
						R	14.00 R 20 X MINE D2		NA	0
	24 - 7.5	190.5 7.5	40.5 1.6			A	12.00 R 24 X MINE D2	G25	2	2
						A	12.00 R 24 XSM D2	G25	2	2
						A	12.00 R 24 XKA***	G25	2	2
	24 - 8.0	203.2 8.0	43.2 1.7			A	12.00 R 24 ***	None		
						A	12.00 R 24 X MINE D2	G25	NA	2
	24 - 8.5	215.9 8.5	45.7 1.8	616,0	615,6	R	12.00 R 24 ***	G25	NA	2
							12.00 R 24 X MINE D2			
	24 - 9.0	228.6 9.0	48.3 1.9			A	14.00 R 24 non TG	G25	NA	0
						A	15.00 R 24 Pil	G25	NA	0
						R	14.00 R 24 non TG		NA	0
	24 - 10.0	254 10.0	50.8 2.0			R	15.00 R 24 Pil	G25	NA	0
						R	385/95 R 24		NA	0

** R = Recommended - A = Allowed

COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

APPROVED RIMS FOR MICHELIN EARTHMOVER TIRES

Check that the rim support is at least the weight carried by the tire.

RIM TYPES	RIM DESIGN	F MM INCHES	H ⁽¹³⁾ MM INCHES	D ⁽¹⁴⁾ MM INCHES	RIM R/A ^(**)	TIRE SIZES	SEAL	TL	TT
5° TAPER BEAD SEAT RIMS (3 PIECES) 	24 - 11.25/1.3	286 11.3	33 1.3	616,0	A	385/95 R 24 X CRANE	G25	NA	0
	25 - 10.00/1.5	254 10.0	38 1.5	635,0	R A	14.00 R 25 385/95 R 25	Heupo (OR 2-25)		
	25 - 11.25/1.3	286 11.3	33 1.3		A A	14.00 R 25 385/95 R 25			
	25 - 11.25/2.0 IN ^(*)	284 11.2	51 2.0		A R A	14.00 R 25 16.00 R 25 445/95 R 2	Sulla (OR 3-25)		
	25 - 12.00/1.3	305 12.0	33 1.3		R R	15.5 R 25 385/95 R 25	Heupo (OR 2-25)		
	25 - 13.00/2.5 IN ^(*)	330 13.0	63.5 2.5		R R	18.00 R 25 505/85 R 25	Sulla (OR 3-25)		
	25 - 14.00/1.3	356 14.0	33 1.3		R	445/80 R 25	Heupo (OR 2-25)		
	25 - 14.00/1.5	355 14.0	38 1.5		R A	17.5 R 25 445/80 R 25			
	25 - 15.00/3.0 IN ^(*)	381 15.0	76 3.0		R	21.00 R 25	Sulla (OR 3-25)		
	25 - 17.00/1.7	432 17.0	43 1.7		R R A	20.5 R 25 * 550/65 R 25 600/65R25 XLD 65	Heupo (OR 2-25)		
	25 - 17.00/2.0 IF ^(*)	432 17.0	51 2.0		R A A A	20.5 R 25 525/80 R 25 550/65 R 25 600/65R25 XLD 65	Sulla (OR 3-25)		
	25 - 19.50/2.5 IF ^(*)	495 19.5	63.5 2.5		R	23.5 R 25			
	25 - 22.00/3.0 IF ^(*)	559 22.0	76 3.0		R	600/65 R 25 650/65 R 25 660/65 R 25 750/65 R 25			
	25 - 25.00/3.5 IF ^(*)	635 25.0	89 3.5		R	29.5 R 25			
					R	850/65 R 25			
CR RIMS 3-PIECE FOR CRANES 	25 - 9.50/1.7 CR	241 9.5	43 1.7	635	A	14.00 R 25	Sulla (OR 3-25)		
	25 - 11.00/1.7 CR	279 11.0	43 1.7		A	385/95 R 25			
	25 - 14.00/1.7 CR	355 14.0	43 1.7		A	16.00 R 25			
	25 - 17.00/1.7 CR	432 17.0	43 1.7		A	445/95 R 25			
					A	17.5 R 25			
					A	445/80 R 25			
5° TAPER BEAD SEAT RIMS (5 PIECES) 	25 - 10.00/2.0	254 10.0	51 2.0		A	20.5 R 25	Sulla (OR 3-25)		
	25 - 11.25/2.0 IN ^(*)	284 11.2	51 2.0		A	505/85 R 25			
					A	14.00 R 25			
					R	16.00 R 25			
					A	445/95 R 25			
	25 - 13.00/2.0 IN ^(*)	330 13.0	51 2.0		A	16.00 R 25			

** R = Recommended - A = Allowed

(*) New wheels have additional marking IN:

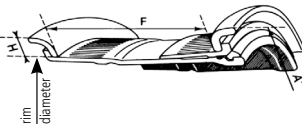
The IF flanges feature an Integrated Flange. They are 3-piece rims suited for radial tires.

The IN rims present a larger flange width and exist as 3-piece or 5-piece types.

COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

APPROVED RIMS FOR MICHELIN EARTHMOVER TIRES

Check that the rim support is at least the weight carried by the tire.

RIM TYPES	RIM DESIGN	F MM INCHES	H ⁽¹³⁾ MM INCHES	D ⁽¹⁴⁾ MM INCHES	RIM R/A ^(**)	TIRE SIZES	SEAL							
								TL	TT					
5° TAPER BEAD SEAT RIMS (5 PIECES) 	25 - 13.00/2.5 IN ^(*)	330 13.0	63.5 2.5	635	R	18.00 R 25	Sulla (OR 3-25)							
					R	505/85 R 25								
	25 - 15.00/2.5 IN ^(*)	381 15.0	63.5 2.5		A	18.00 R 25								
					A	505/85 R 25								
	25 - 15.00/3.0 IN ^(*)	381 15.0	76 3.0		R	21.00 R 25								
					R	20.5 R 25								
	25 - 17.00/2.0	432 17.0	51 2.0		A	525/80 R 25								
					R	550/65 R 25								
					A	600/65R25 XLD 65								
	25 - 17.00/3.0	432 17.0	76 3.0		A	21.00 R 25								
	25 - 19.50/2.0	495 19.5	51 2.0		A	25/26 R 25								
					R	23.5 R 25								
	25 - 19.50/2.5	495 19.5	63.5 2.5		R	600/65 R 25								
					R	650/65 R 25 660/65 R 25								
					R	660/65 R 25								
	25 - 20.00/2.0	508 20.0	51 2.0		A	25/26 R 25								
					R	26.5 R 25								
	25 - 22.00/3.0	559 22.0	76 3.0		R	650/65 R 25								
					R	660/65 R 25 750/65 R 25								
					A	750/65 R 25								
	25 - 24.00/3.0	610 24.0	76 3.0		R	750/65 R 25								
	25 - 25.00/3.0	635 25.0	76 3.0		R	750/65 R 25								
	25 - 25.00/3.5	635 25.0	89 3.5		R	29.5 R 25								
					R	850/65 R 25								
	25 - 27.00/3.5	687 27.0	89 3.5		A	850/65 R 25								
		29 - 22.00/3.0	559 22.0		76 3.0	737				R	26.5 R 29	Sulky (OR 3-29)		
			A	30/65 R 29										
	29 - 24.00/3.0	610 24.0	76 3.0	R	30/65 R 29									
			A	26.5 R 29										
	29 - 24.00/3.5	610 24.0	89 3.5	A	29.5 R 29									
			A	800/65 R 29										
	29 - 25.00/3.5	635 25.0	89 3.5	R	29.5 R 29									
	29 - 27.00/3.0	687 27.0	76 3.0	R	800/65 R 29									
			R	875/65 R 29										
	29 - 27.00/3.5	686 27.0	89 3.5	R	33.25 R 29									

** R = recommended - A = Allowed

(*) New wheels have additional marking **IN**:

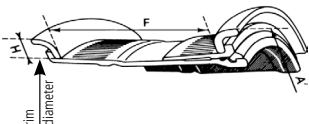
The IF flanges feature an Integrated Flange. They are 3-piece rims suited for radial tires.

The IN rims present a larger flange width and exist as 3-piece or 5-piece types.

COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

APPROVED RIMS FOR MICHELIN EARTHMOVER TIRES

Check that the rim support is at least the weight carried by the tire.

RIM TYPES	RIM DESIGN	F MM INCHES	H ⁽¹³⁾ MM INCHES	D ⁽¹⁴⁾ MM INCHES	RIM R/A ^(**)	TIRE SIZES	SEAL			
							TL	TT		
5° TAPER BEAD SEAT RIMS (5 PIECES) 	33 - 13.00/2.5 IN ^(*)	330 13.0	63.5 2.5	838		18.00 R 33	Strix (OR 3-33)			
	33 - 15.00/3.0 IN ^(*)	381.0 15	76.2 3.0		R	21.00 R 33				
	33 - 28.00/4.0	711 28.0	101.5 4.0		A	33.5 R 33				
	33 - 28.00/3.5	711 28.0	89 3.5		A	35/65 R 33				
	33 - 32.00/4.5	813 32.0	114.5 4.5		R	37.5 R 33				
	35 - 15.00/3.0 IN ^(*)	381 15.0	76 3.0	889	R	21.00 R 35	Stras (OR 3-35)			
	35 - 17.00/3.0	432 17.0	76 3.0		A	21.00 R 35				
	35 - 17.00/3.5	432 17.0	89 3.5		R	24.00 R 35				
	35 - 25.00/3.5	635 25.0	89 3.5		R	29.5 R 35				
	35 - 27.00/3.5	686 27.0	89 3.5		R	33.25 R 35				
					A	29.5 R 35				
	35 - 29.00/3.5	737 29.0	89 3.5		A	33.25 R 35				
					A	37.25 R 35				
	35 - 31.00/4.0	787 31.0	101.5 4.0	R	37.25 R 35					
	39 - 32.00/4.5	813 32.0	114.5 4.5	991	R	37.5 R 39	Fuodi (OR 3-39)			
					R	40.5/75 R 39				
					A	45/65 R 39				
	39 - 36.00/4.5	914 36.0	114.5 4.5		R	45/65 R 39				
	45 - 36.00/4.5	914 36.0	114.5 4.5	1143	R	45/65 R 39	Réf. 1580 (OR 3-45)			
					R	45/65 R 45				
	49 - 17.00/3.5	432 17.0	89 3.5	1245	R	24.00 R 49	Heyco (OR 3-49)			
	49 - 19.50/4.0	495 19.5	101.5 4.0		R	27.00 R 49				
	51 - 22.00/4.5	559 22.0	114.5 4.5	1295	R	30.00 R 51	Réf. 1479 (OR 4-51)			
	51 - 24.00/5.0	610 24.0	127 5.0		R	33.00 R 51				
	51 - 26.00/5.0	660 26.0	127 5.0		R	36.00 R 51				

** R = Recommended - A = Allowed

(*) New wheels have additional marking **IN**:

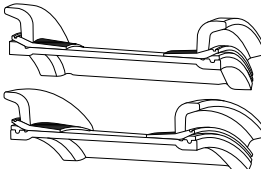
The IF flanges feature an Integrated Flange. They are 3-piece rims suited for radial tires.

The IN rims present a larger flange width and exist as 3-piece or 5-piece types.

COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

APPROVED RIMS FOR MICHELIN EARTHMOVER TIRES

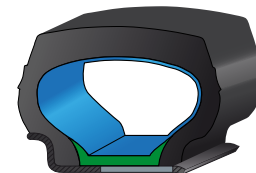
Check that the rim support is at least the weight carried by the tire.

RIM TYPES	RIM DESIGN.	F MM INCHES	H ⁽¹³⁾ MM INCHES	D ⁽¹⁴⁾ MM INCHES	RIM R/A ⁽¹¹⁾	TIRE SIZES	SEAL		
							TL	TT	
5° TAPER BEAD SEAT RIMS (FROM 6 TO 8 PIECES) 	57 - 27.00/6.0	686 27.0	152 6.0	1448	R	37.00 R 57	Réf. 1481 (OR 4-57)		
	57 - 29.00/6.0	736 29.0	152 6.0		R	40.00 R 57			
					A	37.00 R 57			
					A	50/80 R 57 XDR250			
	57 - 32.00/5.0	813 32.0	127 5.0		A	40.00 R 57			
					A	40.00 R 57			
	57 - 32.00/6.0	813 32.0	152 6.0		R	50/80 R 57 XDR250			
					A	50/80 R 57 XDR			
	57 - 32.00/6.5	813 32.0	165 6.5		A	50/90 R 57			
	57 - 34.00/6.0	863 34.0	152 6.0		A	50/80 R 57 XDR			
	57 - 42.00/5.0	1067 42.0	127 5.0		A	55/80 R 57			
	57 - 44.00/5.0	1117 44.0	127 5.0		A	55/80 R 57			
	57 - 47.00/5.0	1194 47.0	127 5.0		A	60/80 R 57			
	63 - 36.00/5.0	914 36.0	127 5.0	1600	A	53/80 R 63	Réf. 2053 (OR 4-63)		
	63 - 38.00/5.0	965 38.0	127 5.0		A	53/80 R 63			
	63 - 41.00/5.0	1041 41.0	127 5.0		A	55/80 R 63			
A					56/80 R 63				
63 - 44.00/5.0[6.0]	1117 44.0	127 5.0	A		59/80 R 63				

** R = Recommended - A = Allowed

COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

FLAP + TUBE SOLUTION

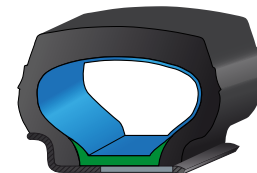


RIM & TIRE SIZE			FLAPS		TUBES			
RIM Ø (INCHES)	Ø WIDTH RIM RECOMMENDED (INCHES)	TIRE SIZE	DESCRIPTION	CAI	DESCRIPTION (PACKAGING)	VALVE TYPE	ETRTO / TRA REF.	CAI
15	5.5	"7.50 R 15 Compactor"	180 - 15	670236	7.00 - 15 / 7.50 - 15 MICHELIN Tube	SINGLE BEND	V3-02-2	812339
	6							
	6.00S							
	6.5							
	B6.5							
	6.5	"8.25 R 15 Mining - X Mine D2 MH - XZM"	180 - 15	670236	8.25 - 15 MICHELIN Tube	SINGLE BEND	V3-02-07	507246
	7							
20	6.5	"9.00 R 20 MH - XZM Mining - X Mine D2"	185 - 20	907771	8.25 - 20 MICHELIN Tube	SINGLE BEND	V3-02-10	732152
	B6.5							
	7.0T							
	7							
	B7.0							
	7.33V							
	B7.5							
	7.5	"E 20 Pilote (13/80 R 20) Compactor"	200 - 20	299014	11.00 - 20 / 12.00 - 20 MICHELIN Tube (V3-02-14)	SINGLE BEND	V3-02-14	179572
	B7.5							
	7.5							
	7.33V							
	7.5							
	B7.5							
	8							
	B8.0							
	8.0V							
	8.00V							
	8.5							
	B8.5							
	8.50V							
	9							
	9.00V							
	10							
	10.00V							
	8	"12.00 R 20 MH - XZM Mining - X Mine"	200 - 20	299014	11.00 - 20 / 12.00 - 20 MICHELIN Tube	SINGLE BEND	V3-02-14	179572
	8.5							
	B8.5							
	8.5V							
	8.50V							
	9							
	9.00V							

FOR VALVE TYPE DESCRIPTION, PLEASE REFER TO THE PAGE 216

COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

FLAP + TUBE SOLUTION



RIM & TIRE SIZE			FLAPS		TUBES				
RIM Ø (INCHES)	Ø WIDTH RIM RECOMMENDED (INCHES)	TIRE SIZE	DESCRIPTION	CAI	DESCRIPTION (PACKAGING)	VALVE TYPE	ETRTO / TRA REF.	CAI	
24	9.00V	"14.00 R 24 XKA XKD1"	-	-		SINGLE BEND	V3-02-17		
	9								
	10.0/2.0					SINGLE BEND	V3-02-3		
	10.00W								
	9.00V	"14.00 R 24 XKA XKD1 XSM D2+"	-	-		SINGLE BEND	"V5-04-1 TRJ650"		
	9								
	10.0/2.0								
	10.00W								
25	10.00/1.5	14.00 R 25 XH D1 A	-	-	14.00 - 24 (Rubber King)	SINGLE BEND	"V5-04-1 TRJ650"		
	11.25/1.3								
	14.00/1.5	17.5 R 25	-	-	14.00 - 24 (Rubber King)	SINGLE BEND	"V5-04-1 TRJ650"		

FOR VALVE TYPE DESCRIPTION, PLEASE REFER TO THE PAGE 216

COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

EXPLANATION ON THE TUBE AND THE FLAP MARKINGS

EXPLANATION ON THE TUBE MARKINGS

Example 1: **24/25 V AM**

example2: **25 YB AM**

The first two numbers indicate the bead seat (rim) diameter of the tire into which the tube can be fitted.

(In the first example, the tube may be fitted in 24- and 25-inch tires. In the second example, the tube may be fitted only in 25 inch tires).

The first letter corresponds to the section width of the tube (internal width of the tire).

This ranges from A to Z, with A being the smallest, and Z the largest (In the examples above, V and Y indicate that the tubes are designed for fitting into tires of relatively large section width.)

Sometimes, a second letter provides additional information (example 2); B, E, F and H indicate intermediate widths.

The third and fourth letters are an indication of the valve type.

AM indicates that the tube is fitted with an American valve base: R1946 (TRA SP4000) and a valve stem R1837 (TRJ 650).

D would indicate that the valve is offset. T would indicate a tractor tube fitted with an air-water valve, type TR 218A.

Explanation on valves and valve bases are given on subsequent pages.

EXPLICATIONS ON THE FLAP MARKINGS

Example 1: **14-24/25**

The first number indicates the total width of the flap when laid flat (includes height of edges), expressed in either millimeters or in inches.

In the example above, the width of the flap is 14 inches.

The second number indicates the rim diameter, or the tire bead seat (rim) diameter in inches, with which the flap is to be used.

In this example, the flap may be used with 24- and 25-inch tires.

Additional letters may be used to provide supplementary information.

For example, the significance of different letters is as follows: L—the edges are tapered, B—the flap has a reinforcing boss around the valve hole, S—the flap is reinforced, D—offset hole valve.

Example 2: **20 x 8.50 E**

The first number indicates the tire seat diameter, expressed in inches, with which the flap is to be used.

In this example, the flap may be used with 20-inch tires.

The second number indicates the overall width of the flap (width + height), in inches.

In this example, the overall width of the flap is 8.50 inches.

Letters correspond to the last generation of flaps.

COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

O-RINGS OR CORNER SEALS SOLUTION

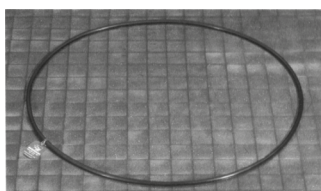
FOR FITTING ON MULTI-PIECES RIMS



O-RINGS & CORNER SEALS DESCRIPTION

RIM Ø (INCHES)	TYPE	DESCRIPTION	MICHELIN REF.	CAI	PACKAGING
For 16" rims	CORNER SEAL	16	R 1967	553026	30
		A-16 SPRAT	R 1014	553007	30
		E-16	R 1786	553024	30
For 20" rims	CORNER SEAL	A 20 TYRAN	R 1443	553004	30
		20	R 2050	553053	30
For 24" rims	CORNER SEAL	B 24/25	R 1528	553021	10
For tires 12.00 R 24 XMINE D2	CORNER SEAL	G 25 ICERU	R 1237	553012	30
For 20" rims in 3 pieces	O-RING	OR 6.6 - 20	R 1681	553215	20
For 21" rims	O-RING	OR 6.8 - 21	R 1506	553213	20
For 22.5" rims	O-RING	OR 22.5	R 2051	553054	10
For 25" rim in 3 pieces non IF or for 24" rim 10.00 VA	O-RING	OR 2-25 HEUPO	R 1438	553201	20
For 25" rim in 3 pieces IF or in 3 pieces CR for crane or in 5 pieces or for 24" rim 10.00 WA	O-RING	OR 3-25 SULLA	R 1437	553200	20
For 29" rims	O-RING	OR 3-29 SULKY	R 1439	553202	20
For 32" rims	O-RING	OR 2-32	R 2052	553055	20
For 33" rims	O-RING	OR 3-33 STRIX	R 1440	553203	20
For 35" rims	O-RING	OR 3-35 STRAS	R 1441	553204	20
For 39" rims	O-RING	OR 3-39 FUODI	R 1069	553206	20
For 45" rims	O-RING	OR 3-45	R 1580	553214	20
For 49" rims	O-RING	OR 3-49 HEYCO	R 1442	553205	10
For 51" rims	O-RING	OR 4-51	R 1479	553210	10
For 57" rims	O-RING	OR 4-57	R 1481	553211	10
For 63" rims	O-RING	OR 4-63	R 2053	553056	10

SEAL DESCRIPTION



O-RING

Explanation of the sealing ring designation

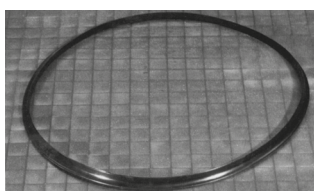
The first number is the section diameter of the seal:

OR: Abbreviation of O-Ring

- imperial number: value expressed in 1/8 of inch (3 = 3/8)

- decimal number: value expressed in mm (6.6 = 6,6 mm)

The second number is the nominal bead seat diameter, expressed in inches.



CORNER SEAL

Explanation of the corner seal designation

The letter indicates the profile of the seal.

The number is the nominal rim diameter, in inches.

Note: Approval for use of corner seals MUST BE obtained from Michelin.



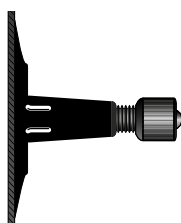
Never reuse O-rings, valve seals or the valves themselves!

COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

VALVES AND ASSOCIATED ACCESSORIES FOR MICHELIN EARTHMOVER TIRES

In all cases, the valve cap is essential because it helps maintain the cleanliness of the mechanism and ensures air tightness of the valve.

CAR TUBE TYPE STRAIGHT VALVE



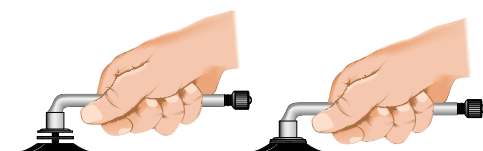
VALVE MARKINGS

The valve is circular and is marked in accordance with ETRTO standards, starting at the top of the valve, and in the following order:

- NAME (or trademark) of the valve manufacturer and his reference number.
- ETRTO reference number.

Michelin code	ETRTO code	Valve code	Valve hole ø in mm
611	V2-01-2	TR 15	16
746	V2-01-1	TR 13	11.5

FITTING A UNIVERSAL VALVE ON A MICHELIN® TUBE WITH A VALVE BASE



- 1 - Position the sealing ring on the valve.
The sealing ring must be clean and dry.
- 2 - Hand tighten the valve until it just touches the sealing ring.
- 3 - Tighten the valve for a further two turns.
- 4 - To orientate the valve in the desired position, tighten further.

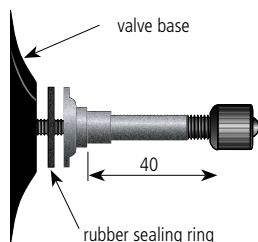


IMPORTANT: Never unscrew the valve to the desired position.

Note: Do not exceed the tightening guidelines given above.
Do not forget to replace the valve cap to prevent dirt ingress and to ensure air tightness.

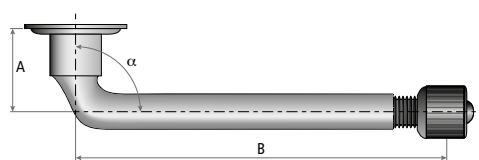
SMALL TRUCK, UNIVERSAL STRAIGHT VALVE

Fitted to MICHELIN® tubes for the occasional equipment Tube-Type on 5° and 15° non U taper drop center rim.



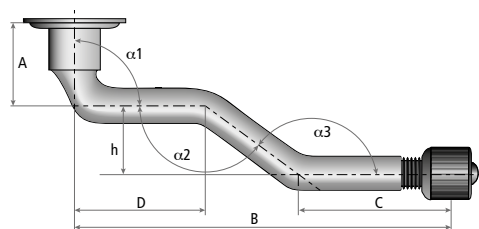
Michelin code	ETRTO code	Valve hole ø in mm	A	
			mm	inches
1964	/	9.7	40	1.57

TRUCK-TYPE, UNIVERSAL SINGLE-BEND VALVE



Michelin code	ETRTO code	A		B		α°
		mm	pouces	mm	inches	
570	V3-02-2	22.5	0.89	43	1.69	120
576	V3-02-3	33	1.30	44.5	1.75	95
577	V3-02-4	39.5	1.56	44.5	1.75	110
752	V3-02-17	20.5	0.81	156.5	6.16	90
1158	V3-02-14	20.5	0.81	138.5	5.45	94

TRUCK-TYPE, UNIVERSAL TRIPLE-BEND VALVE



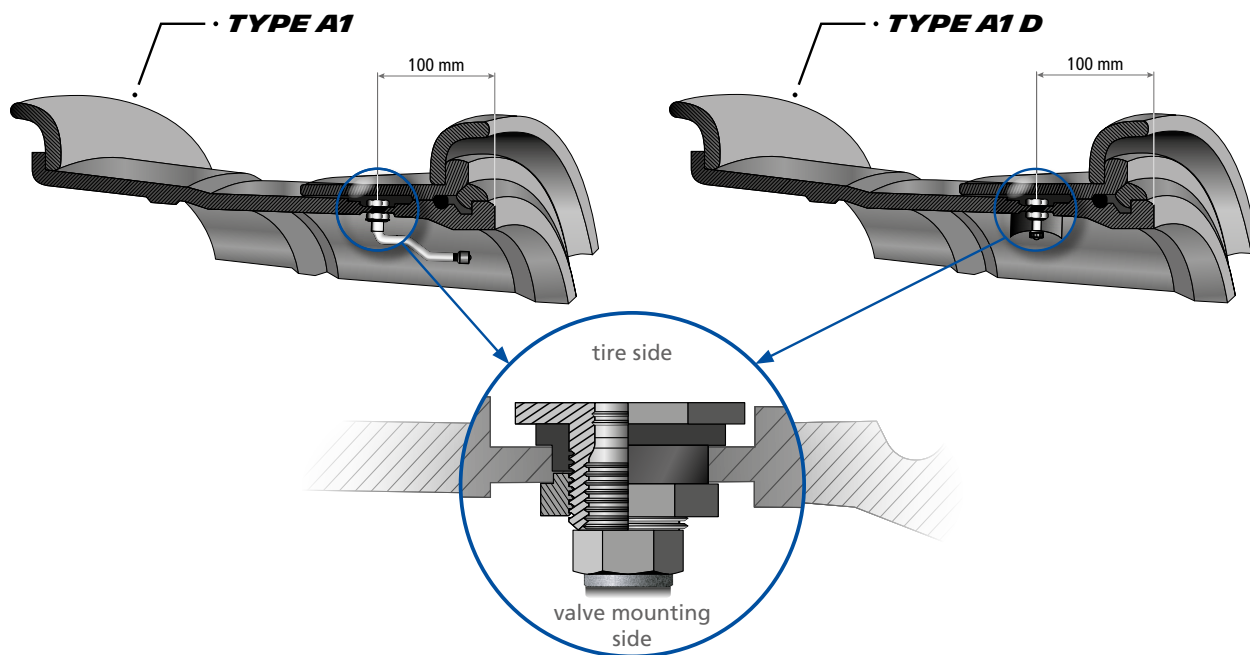
Michelin code	ETRTO code	α1°	α2°	α3°
582	V3-06-5	90	139	139

A		B		C		D	
mm	inches	mm	inches	mm	inches	mm	inches
20.5	0.81	131	5.16	49	1.93	62.5	2.46

COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

TYPES OF TUBELESS EARTHMOVER VALVES

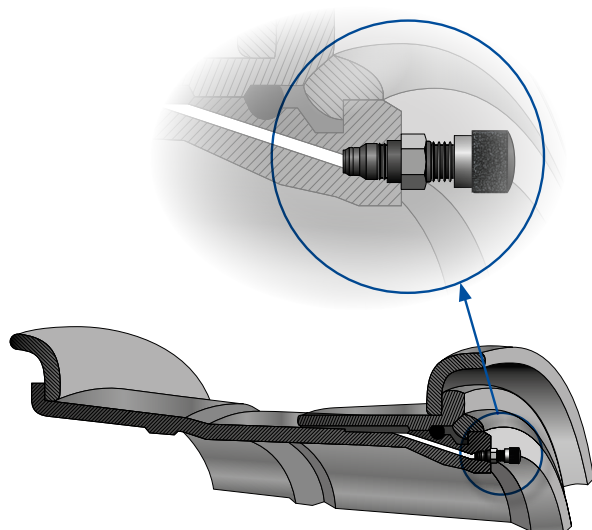
VALVE TYPE A1



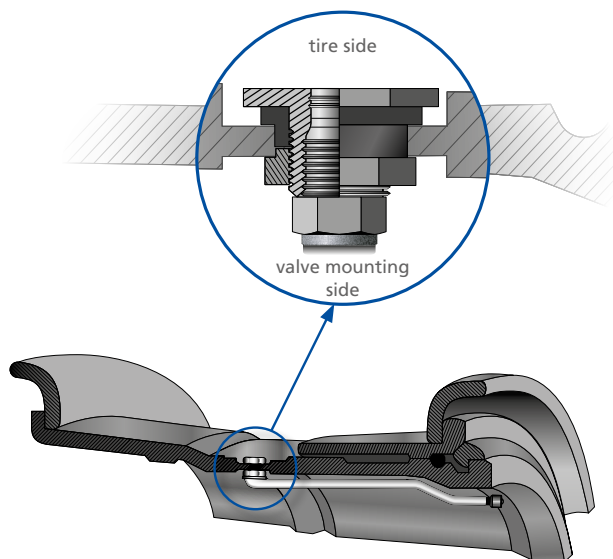
VALVE COMBINATION TYPE A4

Comprised of two TYPE A1 valves, both set at 100 mm from the rim edge, to enable water filling.

VALVE TYPE A2

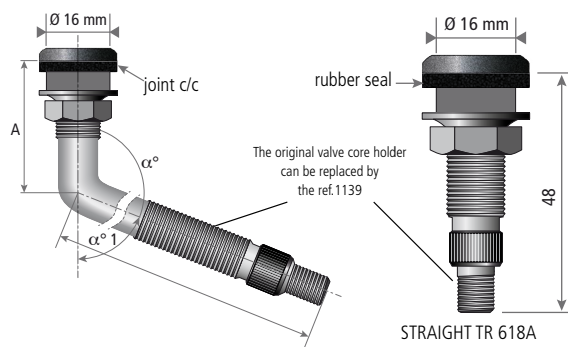


VALVE TYPE A3



COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

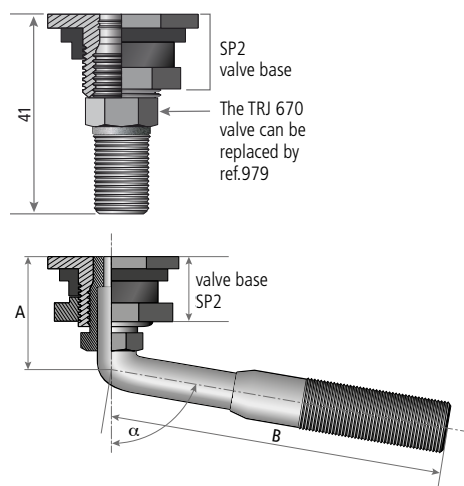
AIR AND WATER TUBELESS VALVES, AMERICAN TRA STANDARD



TRA code	ETRTO designation	A		B		α°
		mm	inches	mm	inches	
TR 618 A	V5-01-1	47.5	1.87	-	-	-
TR 621 A	V5-02-1	39	1.54	76	2.99	115°
TR 622 A	V5-02-2	44.5	1.75	117	4.61	90°
TR 623 A	V5-02-3	39	1.54	57	2.24	115°

Valves for 15.7 mm (0.6-inch) diameter hole

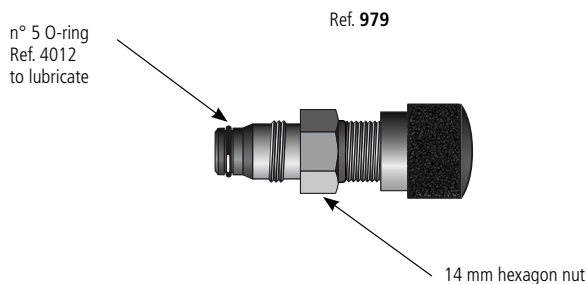
EARTHMOVER TUBELESS VALVE (AMERICAN TRA STANDARD)



Michelin code	TRA code	ETRTO designation	A		B		α°
			mm	inches	mm	inches	
R 1837	TRJ 650	V5-04-1	27	1.08	79	3.12	100°
	TRJ 651	V5-04-2	32	1.27	119	4.69	90°
	TRJ 652		27	1.08	140	5.5	94°
	TRJ 653		27	1.08	63	2.5	100°
	TRJ 654		27	1.08	79	3.12	120°
	TRJ 655		27	1.08	79	3.12	106°
	TRJ 656		67	2.62	94	3.69	90°
	TRJ 657		27	1.08	102	4	100°
	TRJ 658		27	1.08	140	5.5	100°
	TRJ 659		48	1.89	89	3.5	90°
	TRJ 660		48	1.89	222	8.75	90°
	TRJ 669		27	1.08	64	2.5	90°
R 979	TRJ 670		41	1.63	-	-	-

Valves used on an American valve base SP2 [20.5 mm (0.8-inch) diameter hole] and also on AM tubes.

STRAIGHT, LARGE-BORE VALVES

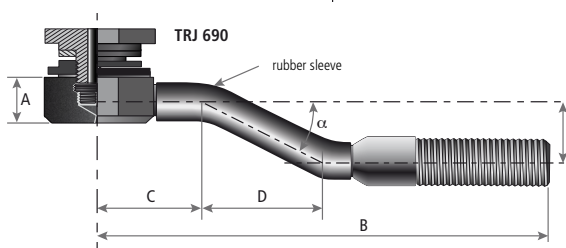
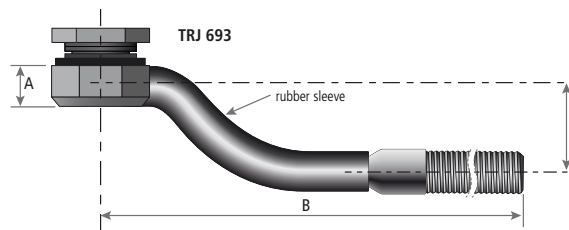
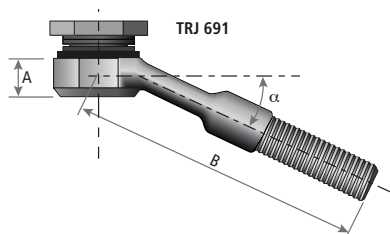


Used with **Type A2** rim contour or with **SP2** base (may also replace TRJ 670).

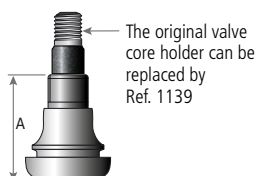
COMPONENTS USED WITH MICHELIN EARTHMOVER TIRES

SINGLE-PIECE VALVES (20,5 mm valve hole)

TRA code	A		B		C		D		H		α°
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	
TRJ 690	16	0.63	119	4.69	32	1.26	27	1.06	14	0.55	28
TRJ 691	16	0.63	84	3.31							18
TRJ 693	16	0.63	127	5.00					25	0.98	



AIR AND WATER TUBELESS, STRAIGHT RUBBER VALVES



A	Designation
mm/inches	
35 1.38	35 GSW 15.7

Valves for 15.7 mm (0.6-inch) diameter hole

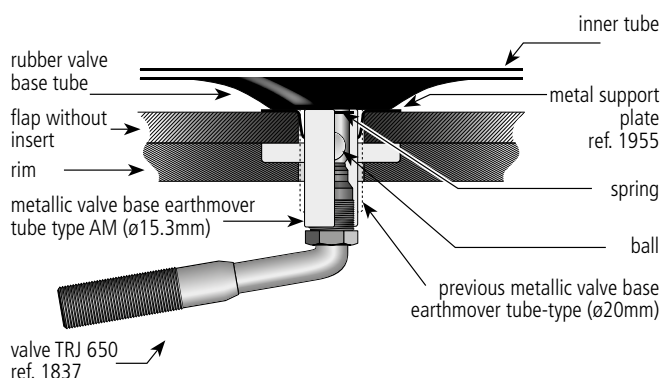


Caution! Don't use this valve with pressures higher than 4,5 bar.

VALVE BASE

ACTUAL VALVAGE

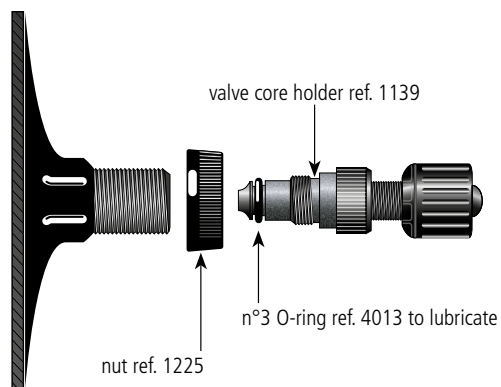
(mounting with tube)



AIR AND WATER AGRICULTURAL-TYPE VALVE BASE

Allows tire to be water-filled.

Valve with core holder 1139 and plastic nut ref. 1225



ref. 1224 code TR 218A

HELP WITH THE USE OF EARTHMOVER TIRES

MICHELIN EARTHMOVER TIRES FOR TRANSPORT MACHINES

DETERMINING INFLATION PRESSURES

- **Determine** the maximum load on each tire by weighing.

This is the only way that tire pressures can be set accurately for optimum performance.

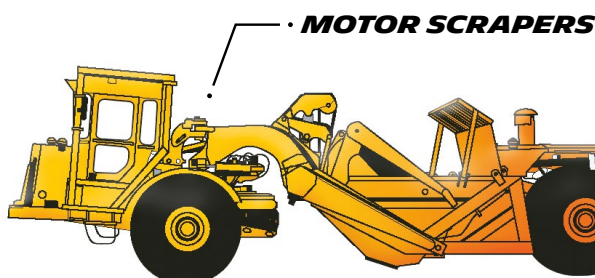
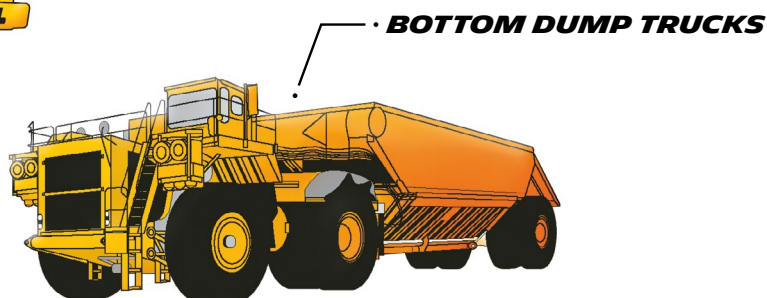
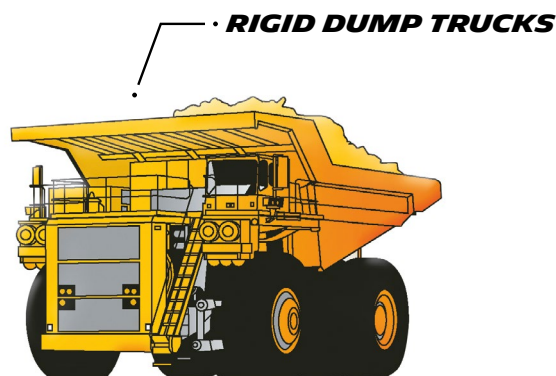
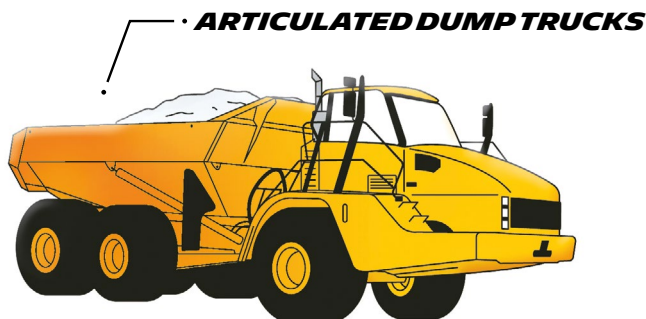
If it is not possible to weigh the machine, determine the maximum load per tire on each axle by calculation or by using the machine manufacturer's data.

The following data needs to be established:

- The Gross Vehicle Weight (total machine weight in the laden condition).
- The percentage load distribution by axle.
- **Calculate** the load per axle, then determine the tire weight by dividing the axle load by the number of tires per axle.
- **Use** the tables *Tire Loads and Pressures* for TRANSPORT in the MICHELIN® Earthmover Databook.

This method applies to the following machine tires:

Rigid Dump Trucks
Articulated Dump Trucks
Bottom Dump Trucks
Motor Scrapers
Site Dump Trucks

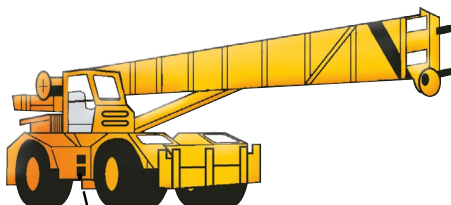


HELP WITH THE USE OF EARTHMOVER TIRES

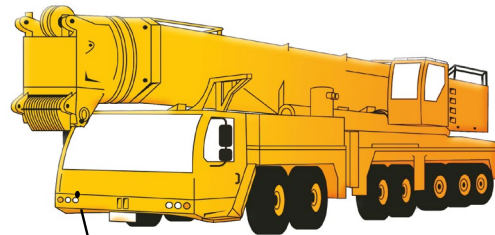
MICHELIN EARTHMOVER TIRES FOR MOBILE CRANES, SPECIAL APPLICATIONS, RAPID INTERVENTION VEHICLES (CIVIL AND MILITARY)

DETERMINING INFLATION PRESSURES

- **Determine** the maximum load on each tire by weighing
 - By using the machine manufacturer's data, or
 - By weighing each axle.
 - **Calculate** the load per tire (in the case of a crane, divide the total weight by the number of axles, and divide by the number of tires per axle).
 - **Use** the tables *Tire Loads and Pressures* for CRANES to determine the tire pressures.
 - In the case of use of tires on special machines, please consult your Michelin® Representative.
 - Tires are made from different types of materials that have the properties which are essential for the tire to perform properly. These properties may change over time. These changes depend on numerous factors such as the storage conditions, usage and, in particular, the load, speed, tire pressure, maintenance, weather conditions etc. to which the tire is subjected throughout its useful life. These factors impact a tire's service life.
- The design of Michelin tires is intended to deliver long lasting performance and ensure that the machine remains operational for the longest possible periods.
- If we take a look at the conditions of use of mobile cranes, we see a reduction in the average distance travelled every year. As a result, the tires stay fitted to the cranes for a longer period of time.
- Accordingly, Michelin recommends that the service life of mobile crane tires be limited to a maximum of 10 years.



• **RT CRANE**



• **AT CRANE**

MICHELIN EARTHMOVER TIRES USED IN DESERT AND SIMILAR CONDITIONS

These tires are used on machines that are operated in special conditions, such as sand, desert regions, etc.

Two speed limits are applied to the tires according to the type of work.

- A limit for use on sand and hard track.
- A higher limit for road use with no particular problem of grip or accidental damage.

INFLATION PRESSURES

For a given load, the inflation pressure depends on the rolling condition

- Road
- Track
- Sand

Refer to the table load/pressure corresponding to the selected type of driving.

After using sand pressures, they must be adjusted to the correct pressure for subsequent conditions of use (road or track).

HELP WITH THE USE OF EARTHMOVER TIRES

MICHELIN EARTHMOVER TIRES FOR WORKING MACHINES: SURFACE LOADERS IN REHANDLING, PRODUCTION, EXTRACTION AND FACEWORK

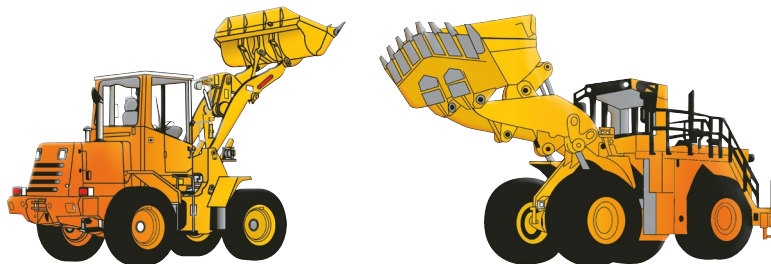
BASE PRESSURES

The base pressures designate the necessary pressure for the load carried.

There are two ways to determine the base pressures of a loader.

BY WEIGHING THE MACHINE AXLES

- **Determine** the maximum load on each tire by weighing.
- **Use** the tables *Tire Loads and Pressures* for LOADERS from the MICHELIN® Technical Databook.
Front Laden: for the laden front axle(bucket full)
Rear Unladen: for the unladen rear axle(bucket empty)



BY CALCULATION, USING THE MACHINE MANUFACTURER'S DATA

- **Determine** the maximum load on each tire from the axle loads (bucket empty/full) data by the manufacturer.
- **Use** the tables *Tire Loads and Pressures* for LOADERS from the MICHELIN® Technical Databook.
Front Laden: for the laden front axle(bucket full)
Rear Unladen: for the unladen rear axle(bucket empty)

ADJUSTMENTS OF THE BASE PRESSURE

To improve stability, the following adjustments are possible:

Front axle: For a given load, it is possible to increase tire pressure by 1 bar compared to the pressure determined by the methods presented above.

On the rear axle, it is recommended to use a pressure of 70% of the recommended value for the front axle.

These adjustments shall be made within the limits shown on page 148.

Important

During long road trips (delivery, transfer from one site to another), special precautions are necessary.

For more information, please consult your Michelin Representative.

MICHELIN EARTHMOVER TIRES IN BLOCK HANDLING APPLICATION

The block handling usage is very specific, both recommendations and usage conditions listed below must be respected at all times:

- Always fit the tire on heavy duty wheels / reinforced flanges
- Always inflate the tire to 9 bar (130 psi) cold pressure
- Inspect the tire weekly by qualified personnel:
 - Pressure check
 - Visual inspection of the bead zone. If any deformation is detected , it is mandatory to remove the tire immediately
- Usage of chains is authorized
- Remove the tire after using it up to a maximum of 4 years within this application

Description	CAI/MSPN	Load per tire kg (lbs)	Pressure (bar) (PSI)	Max. dist./hour	% of use
XTXL E4**** L4**** 229A2 35/65R33 Tubeless	845075 46729	≤ 32500 (71500)	9 (130)	10 km - 6.2 mi	-
		≤ 45000 (99000)	9 (130)	4 km - 2.4 mi	-
		≤ 80000 (176000)	9 (130)	stationary	Max 10%
XTXL E4 **** L4 *** 221A2 29.5 R 25 Tubeless	427926 40734	≤ 25750 (56500)	9 (130)	12 km - 7.4 mi	-
		≤ 35000 (77000)	9 (130)	4 km - 2.4 mi	-
		≤ 63000 (138500)	9 (130)	stationary	Max 10%

HELP WITH THE USE OF EARTHMOVER TIRES

MICHELIN EARTHMOVER TIRES FOR WORKING MACHINES: DOZERS

HOW TO CALCULATE INFLATION PRESSURES

Depending on the type of work, tires on a dozer are subjected to different types of loading.

- The load on the Front Axle is at the maximum when loading (pushing) a scraper.
- The load on the Rear axle is at the maximum when dozing or while stockpiling.

From a practical point of view, the maximum load on either of the two axles is approximately equal to 2/3 of the machine weight.

- **Use this method** to determine the load on each tire.
- **Use** the tables *Tire Loads and Pressures* for LOADERS for the Rear Unladen.



MICHELIN EARTHMOVER TIRES FOR WORKING MACHINES: GRADERS

HOW TO CALCULATE INFLATION PRESSURES

As a general rule, the minimal inflation pressure recommendation must never be lower than 2 bar (29 psi)

- **Weigh the machine** to find out the load on each axle or use the loads given by the machine manufacturer.
- **Use** the tables *Tire Loads and Pressures* for GRADERS

For special work (example: sloping embankments), the inflation pressure should never be lower than 2.5 bar (36 psi).



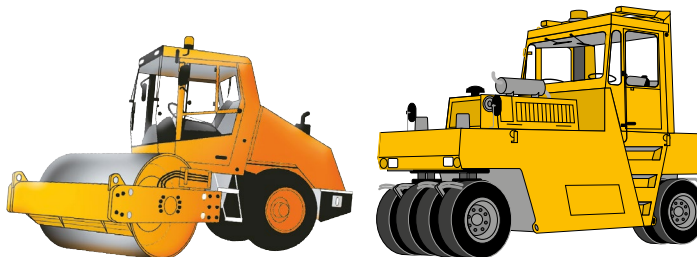
HELP WITH THE USE OF EARTHMOVER TIRES

MICHELIN EARTHMOVER TIRES FOR COMPACTORS

XLC TIRES

The tire and the working pressure depend on the material to be compacted, the type of work to be carried out and the operating speed.

Please refer to the information and operating guidelines supplied by the machine manufacturer and use the tables *Tire Loads and Pressures* for COMPACTORS from the earthmover technical databook.



MICHELIN EARTHMOVER TIRES FOR ROADBUILDING MACHINERY (PLANERS, STABILIZER MIXERS, PAVERS)



There are no tires made specifically for this type of machinery. Tires should be chosen according to their average speed capabilities in relation to those of the machine and their load capacity.

All these machines operate at 2 speeds: a "transport" or "traveling" speed and a "work" speed.

Once the load per tire has been determined, refer to the load/pressure table which corresponds best to the speed at which the selected tire is to be used.

When we determine the tire pressure in these two cases, we consistently apply the highest pressure. This is often pressure "transport."

HOW TO CALCULATE THE LOAD PER TIRE

If the load per axle is not known (no machine manufacturer's information available and no possibility of a physical weighing), follow the instructions below.

TRAVELING MACHINES:

For Cold Planers and Stabilizer Mixers: Load per axle on pneumatic tires = 50% of machine weight.

For Pavers: Load per axle on pneumatic tires = 80% of machine weight/number of axles.

LOADED/WORKING MACHINES:

For Cold Planers and Stabilizer Mixers: Load per axle = 50% of machine weight + payload.

For Pavers: Load per axle on pneumatic tires = 30% machine weight + maximum load of the container bin/number of axles.

HELP WITH THE USE OF EARTHMOVER TIRES

MICHELIN EARTHMOVER TIRES FOR UNDERGROUND MACHINES

HOW TO CALCULATE INFLATION PRESSURES

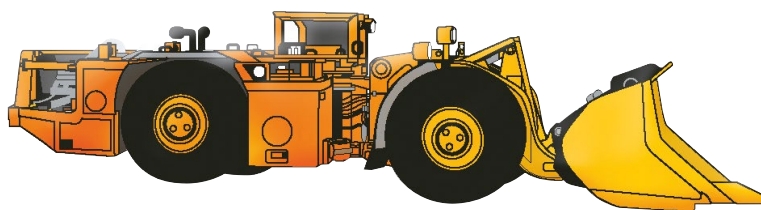
TRANSPORT MACHINES

- **Determine** the maximum load on each tire, of each axle, with the machine loaded
 - By calculation, using the machine manufacturer's data, or
 - By weighing each tire position with the machine loaded.
- **Use** the tables *Tire Loads and Pressures* for MINE TRANSPORT.

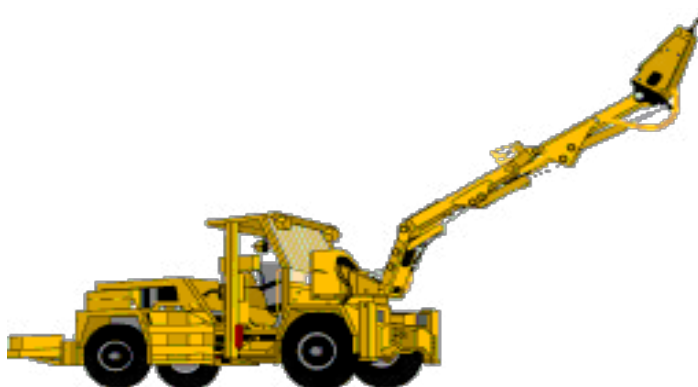


LOADERS

Apply the methods used for surface loaders (see the previous pages Chapter MICHELIN® Earthmover Tires for Working Machines: Surface Loaders).



BOLTERS, BORERS, SCALERS AND OTHER SERVICE MACHINES



TIRES FOR TRANSPORT MACHINES: TKPH (TMPH) METHOD

FACTORS TO BE CONSIDERED WHEN SELECTING THE MOST APPROPRIATE TIRE:



CHOOSING THE IDEAL TIRE

- This will depend on:
- The fitment possibilities offered by the machine manufacturer
 - The service conditions on the site
Factors such as load, speed, surface conditions, etc. must be considered

THE MACHINE

- The tire sizes
- The loads the tires have to carry (laden and unladen)

THE SITE

- Type of surface, condition and profile of haul roads
- Type and condition of loading and tipping areas

TIRE BEHAVIOR

- How are the tires wearing?
- What are the main reasons for removing a tire from service?
- Are there sidewall or tread problems?

MACHINE OPERATION ON THE SITE

- Length of the cycle (laden trip/unladen trip)
- Maximum number of cycles during a working period or shift
- Duration of the working period or shift

PROBLEMS THAT MAY ARISE

- How does the machine/tire combination behave? (For example, traction)

TKPH (TMPH) definition:

The TKPH (Ton Kilometer Per Hour) or TMPH (Ton Mile Per Hour) is an expression of the working capacity of a tire.

The TKPH (TMPH) is a function of the maximum allowed internal operating temperature of a tire.

TIRE TKPH OR TIRE TMPH

A tire's TKPH (TMPH) depends on its design and varies according to size and type.

TKPH (TMPH) values are given along with other MICHELIN® tire characteristics.

It is a function of load and the number of kilometers (miles)

covered per hour at an ambient temperature of 38 °C (100° F).

The formula to convert a TKPH rating to a TMPH rating is:

$$\text{TMPH} = \text{TKPH} \times 0,685$$

TMPH calculation is based on the "short ton" which corresponds to 2,000 lbs or 907 kg.

BASIC SITE TKPH OR TMPH

This value reflects the specific requirements of a site and can be obtained by using the following formula:

$$\text{Basic site TKPH (basic site TMPH)} = Q_m \times V_m$$

Where Q_m = average load per tire

V_m = average cycle speed, in km (or miles) per hour

AVERAGE LOAD PER TIRE (Q_m)

Average load per tire (Q_m):

$$Q_m = \frac{Q_c + Q_v}{2}$$



where Q_c = is the load per tire in ton (TKPH), or in short ton (TMPH), on a laden vehicle.

Q_v = is the load per tire in ton (TKPH), or in short ton (TMPH), on an unladen vehicle.

The Q_m calculation should theoretically be made for each tire. However, in practice, specific tire loads are not normally available; therefore, this leads to the assumption that each tire on the same axle carries an equal load. When calculating the average load per tire on the front and the rear axles, the greatest value of Q_m shall be used in TKPH (TMPH) calculation.

In most cases, on two-axle dump trucks, the distribution of the total load of the loaded vehicle (unladen weight + payload) corresponds to 33.3% on the front axle (single tires) and 66.7% on the rear axle (twin tires).

When unladen, the front axle is almost always the heaviest. Thus, the maximum Q_m will nearly always be on the front axle.

Caution: Ensure that load distribution Front/Rear is even

Of course, the analysis of the site (or at least, the collected information), weighings and machine characteristics, will provide the information to define and check the load per tire.

THE NUMBER OF KM (OR NUMBER OF MILES) COVERED ON THE REFERENCE CYCLE



This is obtained by using the relationship:

$$V_m = \frac{L}{H}$$


Where L = is the cycle length in kilometers (TKPH), or in miles (TMPH).

The reference cycle must be the one with the highest average speed.

H = is the duration of cycle in hours.

REAL SITE TKPH OR REAL SITE TMPH

The $Q_m \times V_m$ formula is used to calculate the basic site TKPH (or TMPH).

To obtain the real site TKPH (or TMPH), two more factors must be taken into account:

- The length of cycles exceeding 5 kilometers (or 3 miles)
- The ambient temperature

CYCLE LENGTH-K1 COEFFICIENT

For cycle lengths exceeding 5 kilometers (or 3 miles) apply to the basic site TKPH (or basic site TMPH) the K1 coefficient, the values of which are given on following pages.

SITE AMBIENT TEMPERATURE (TA) - K2 COEFFICIENT

The standard ambient temperature is 38 °C (100° F). For a given speed, a site temperature higher than 38 °C increases the real site TKPH (or TMPH). Conversely, a temperature lowers than 38 °C (100° F) decreases the real site TKPH (or TMPH).

The K2 coefficient:

Where V_m is the reference cycle average speed on the site in km/h for TKPH and in mph for TMPH,

TA is the ambient temperature, in °C for TKPH and in °F for TMPH

TR is the reference temperature (38 °C for TKPH and 100° F for TMPH)

Is to apply to the basic site TKPH (basic site TMPH).

Its calculation depends on whether the ambient temperature of the basic site is above or below 38 °C (100° F).

if $TA < 38\text{ °C}$ (100° F)

$$K2 = \frac{1}{1 - \frac{0,25^* \times (TA - TR)}{V_m}}$$


(*: Use 0.086 instead of 0.25 when calculating basic site TMPH)

if $TA > 38\text{ °C}$ (100° F)

$$K2 = \frac{1}{1 - \frac{0,40^* \times (TA - TR)}{V_m}}$$


(*: Use 0.138 instead of 0.40 when calculating basic site TMPH)

The ambient temperature of the site (TA) to be taken into account is "the maximum temperature in the shade" during the hottest period.

For temperatures TA greater than 15 °C (59° F), use the K2 coefficients shown on the following pages.

For temperatures TA lower than 15 °C (59° F), use the K2 coefficients shown in the shaded area of the table on the following pages.

To sum up, for the real site TKPH (TMPH) calculation, proceed as follows:

- Calculate the basic site TKPH (TMPH).
- Calculate the correct for cycle length exceeding 5 kilometers (3 miles) by applying the K1 coefficient.
- Calculate the correct for ambient temperatures not equal to 38 °C (100° F) by applying the K2 coefficient.

Real site TKPH (or TMPH) = Basic site TKPH (or basic site TMPH) x K1 x K2

COMPARISON OF THE TIRE TKPH (TMPH) AND REAL SITE TKPH (TMPH)

On the basis that the choice of tread pattern is made to meet the needs of traction, protection and speed, there are 2 possibilities:

- The tire's TKPH (TMPH) is greater than the real site TKPH (TMPH): the tire is suitable for the application.
- The tire's TKPH (TMPH) is below the real site TKPH (TMPH): the tire is not suitable for the application.

In case b:

- Check if another tread pattern or type may be used.
- See if a modification of operating conditions is possible (reduction of load and/or reduction of speed, reduced number of cycles in the same time period, etc.).

EXAMPLE OF A SITE TKPH (TMPH) CALCULATION

The data to calculate the real site TKPH (TMPH) where a RDT is fitted with 37.00 R 57 tire is as follows:

- Well-kept but abrasive haul roads;
- Average payload: 180 tons (198.5 short ton); mine value
- Reference cycle: 21 km (12.8 miles);
- Unladen weight-Front: 64 tons (70.6 short ton)

- Duration of cycle: 1 hour 15 minutes ;
 $H = 1 + (15/60) = 1,25$ hour;
- Unladen weight-Rear: 57 tons (62.8 short ton)
- Ambient temperature: $TA = 42^{\circ}\text{C}$ (107.6°F);
- Distribution of total laden weight: Front = 33.3% Rear = 66.7%



CALCULATION OF QM (AVERAGE TIRE LOAD)

	(TKPH)	(TMPH)
- Gross Vehicle Weight (GVW)	$180 + 64 + 57 = 301$ tons	$198.5 + 70.6 + 62.8 = 332$ short tons
- Unladen weight per tire-Front; Qv:	$\frac{64}{2} = 32$ tons	$\frac{70.6}{2} = 35$ short tons
- Laden weight per tire-Front; Qc: (33.3% of GVW on front axle)	$\frac{301 \times 33.3}{2 \times 100} \sim 50$ tons	$\frac{332 \times 33.3}{2 \times 100} = 55$ short tons
- Average tire load, Qm Front:	$\frac{32 + 50}{2} = 41$ tons	$\frac{35 + 55}{2} = 45$ short tons
- Unladen weight per tire-Rear; Qv:	$\frac{57}{4} = 14$ tons	$\frac{62.8}{4} = 15.5$ short tons
- Laden weight per tire-Rear; Qc: (66.7% of GVW on rear axle)	$\frac{301 \times 66.7}{4 \times 100} \sim 50$ tons	$\frac{332 \times 66.7}{4 \times 100} = 55$ short tons
- Average tire load, Qm-Rear:	$\frac{14 + 50}{2} = 32$ tons	$\frac{15.5 + 55}{2} = 35$ short tons
Thus, the value for Qm to be used will be:	41 tons	45 short tons

CALCULATION OF VM (DISTANCE COVERED PER HOUR)

$Vm = \frac{L}{H}$	$\frac{21}{1,25} = 16.8$ km in one hour	$\frac{12.8}{1,25} = 10.2$ miles in one hour
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BASIC SITE TKPH (TMPH)

$TKPH (TMPH) = Qm \times Vm$	$41 \times 17 = 689$	$45 \times 10,6 = 459$
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CALCULATION OF K1 COEFFICIENT

Beyond 5 km/h, the cycle length has an influence on the real site TKPH.

The cycle is greater than 5 km (3 miles), the coefficient K1 corresponding to 21 km (12.8 miles) which is the reference cycle starts, is: **1.19** (value on next page) for the calculation of TKPH and TMPH.

VALUE OF THE K2 COEFFICIENT

Ambient temperatures different of 38°C (100°F) has an influence on the real site TKPH.

You can use the table on the opposite page, to find the K2 coefficient (in TKPH units), by interpolation for your actual reference cycle average speed and ambient temperature. In this case, for $Vm = 17$ km/h (10.6 mph) and $TA = 42^{\circ}\text{C}$ (107.6°F), we find $K2 = 1.105$

CALCULATION OF THE K2 COEFFICIENT

In our example, the ambient temperature is 42°C (107.6°F). The calculation of the coefficient K2 is as follows:

$$K2 = \frac{1}{1 - \frac{[0,40 * x (TA - TR)]}{Vm}} \quad \frac{1}{1 - \frac{[0,40 * x (42 - 38)]}{16.8}} = 1.105 \quad \frac{1}{1 - \frac{[0,138 * x (107.6 - 100)]}{10.2}} = 1.114$$

(*: Use 0.138 instead of 0.4 for the calculation of TMPH)

REAL SITE TKPH (TMPH)

Applying the K1 and K2 coefficients to the basic site TKPH (TMPH) gives the real site TKPH (TMPH).

$$689 \times 1.19 \times 1.105 = 906 \quad 459 \times 1.19 \times 1.114 = 608$$

TIRE TKPH (TMPH)/REAL SITE TKPH (TMPH) COMPARISON

In the 37.00 R 57 XDR® size	the different tire TKPH values are:	the different tire TMPH values are:
	B4 = 848	B4 = 581
	B = 1018	B = 698
	C4 = 1145	C4 = 784
	C = 1272	C = 871

In our example, the B4 type is not suitable. All other types of compound are possible.

The tracks being abrasive and the loading and unloading areas being aggressive, the choice will be the B type.

MICHELIN EARTHMOVER TIRES FOR TRANSPORT MACHINES K COEFFICIENT CALCULATED AND USED FOR THE TKPH (TMPH) METHOD



K1 COEFFICIENTS

L (km)	L (ml)	K1	L (km)	L (ml)	K1	L (km)	L (ml)	K1	L (km)	L (ml)	K1	L (km)	L (ml)	K1
			11	6.8	1.13	21	13	1.19	31	19.3	1.21	41	25.5	1.23
			12	7.4	1.14	22	13.7	1.19	32	19.9	1.21	42	26.1	1.23
			13	8	1.15	23	14.3	1.20	33	20.5	1.22	43	26.7	1.23
			14	8.7	1.16	24	14.9	1.20	34	21.1	1.22	44	27.3	1.23
5	3.1	1.00	15	9.3	1.16	25	15.5	1.20	35	21.7	1.22	45	28	1.23
6	3.7	1.04	16	9.9	1.17	26	16.2	1.20	36	22.4	1.22	46	28.6	1.23
7	4.3	1.06	17	10.6	1.17	27	16.8	1.21	37	23	1.22	47	29.2	1.23
8	5	1.09	18	11.2	1.18	28	17.4	1.21	38	23.6	1.22	48	29.8	1.23
9	5.6	1.10	19	11.8	1.18	29	18	1.21	39	24.2	1.22	49	30.4	1.23
10	6.2	1.12	20	12.4	1.19	30	18.6	1.21	40	25	1.22	50	31	1.23

L = Cycle length in kilometers and in miles.

K2 COEFFICIENTS

Vm Km (miles)	Ambient temperature														
	15 °C 59° F	17,5 °C 63.5° F	20 °C 68° F	22,5 °C 72.5° F	25 °C 77° F	27,5 °C 81.5° F	30 °C 86° F	32,5 °C 90.5° F	35 °C 95° F	37,5 °C 99.5° F	40 °C 104° F	42,5 °C 108.5° F	45 °C 113° F	47,5 °C 117.5° F	50 °C 122° F
10 (6)	0.635	0.661	0.690	0.721	0.755	0.792	0.833	0.879	0.930	0.988	1.087	1.220	1.389	1.613	1.923
12 (7)	0.676	0.701	0.727	0.756	0.787	0.821	0.857	0.897	0.941	0.990	1.071	1.176	1.304	1.463	1.667
14 (9)	0.709	0.732	0.757	0.783	0.812	0.842	0.875	0.911	0.949	0.991	1.061	1.148	1.250	1.373	1.522
16 (10)	0.736	0.757	0.780	0.805	0.831	0.859	0.889	0.921	0.955	0.992	1.053	1.127	1.212	1.311	1.429
18 (11)	0.758	0.778	0.800	0.823	0.847	0.873	0.900	0.929	0.960	0.993	1.047	1.111	1.184	1.268	1.364
20 (12,5)	0.777	0.796	0.816	0.838	0.860	0.884	0.909	0.936	0.964	0.994	1.042	1.099	1.163	1.235	1.316
21 (13)	0.785	0.804	0.824	0.844	0.866	0.889	0.913	0.939	0.966	0.994	1.040	1.094	1.154	1.221	1.296
22 (14)	0.793	0.811	0.830	0.850	0.871	0.893	0.917	0.941	0.967	0.994	1.038	1.089	1.146	1.209	1.279
24 (15)	0.807	0.824	0.842	0.861	0.881	0.901	0.923	0.946	0.970	0.995	1.034	1.081	1.132	1.188	1.250
26 (16)	0.819	0.835	0.852	0.870	0.889	0.908	0.929	0.950	0.972	0.995	1.032	1.074	1.121	1.171	1.226
28 (17)	0.830	0.845	0.862	0.878	0.896	0.914	0.933	0.953	0.974	0.996	1.029	1.069	1.111	1.157	1.207
30 (19)	0.839	0.854	0.870	0.886	0.902	0.920	0.938	0.956	0.976	0.996	1.027	1.064	1.103	1.145	1.190
32 (20)	0.848	0.862	0.877	0.892	0.908	0.924	0.941	0.959	0.977	0.996	1.026	1.060	1.096	1.135	1.176
34 (21)	0.855	0.869	0.883	0.898	0.913	0.928	0.944	0.961	0.978	0.996	1.024	1.056	1.090	1.126	1.164
36 (22)	0.862	0.875	0.889	0.903	0.917	0.932	0.947	0.963	0.980	0.997	1.023	1.053	1.084	1.118	1.154
38 (24)	0.869	0.881	0.894	0.907	0.921	0.935	0.950	0.965	0.981	0.997	1.022	1.050	1.080	1.111	1.145
40 (25)	0.874	0.886	0.899	0.912	0.925	0.938	0.952	0.967	0.982	0.997	1.020	1.047	1.075	1.105	1.136
42 (26)	0.880	0.891	0.903	0.916	0.928	0.941	0.955	0.968	0.982	0.997	1.019	1.045	1.071	1.099	1.129
44 (27)	0.884	0.896	0.907	0.919	0.931	0.944	0.957	0.970	0.983	0.997	1.019	1.043	1.068	1.095	1.122
46 (28)	0.889	0.900	0.911	0.922	0.934	0.946	0.958	0.971	0.984	0.997	1.018	1.041	1.065	1.090	1.117
48 (29)	0.893	0.904	0.914	0.925	0.937	0.948	0.960	0.972	0.985	0.997	1.017	1.039	1.062	1.086	1.111
50 (31)	0.897	0.907	0.917	0.928	0.939	0.950	0.962	0.973	0.985	0.998	1.016	1.037	1.059	1.082	1.106

Vm = number of km (miles) covered per hour.

Interpolation is allowed between the temperatures shown in the column headings.

MICHELIN EARTHMOVER TIRES FOR SPECIFIC USES

1°) Firstly, if the dimension exists for your machine and your use, you must use it (example: mechanical handling tires for handling use; heavy truck tires for construction use or for builder use, etc.)

2°) For all other cases, you must contact your Michelin Representative.



APPROXIMATE LOOSE MATERIAL DENSITIES (t/m³)

MATERIAL	DENSITY	MATERIAL	DENSITY
Alkaline potash	1.3 to 1.5	Copper ore	1.6
Anthracite	0.9 to 1.1	Iron ore	2.4 to 3.3
Clay (dry)	1 to 1.1	Pyrites	2.6
Clay (moist)	1.2 to 1.3	Earth (dry)	1.2 to 1.5
Clay (wet)	1.3 to 1.4	Earth (moist)	1.3 to 1.4
Bauxite	1.5	Earth (wet)	1.4 to 1.5
Mud	1.8	Overburden	1.7 to 1.8
Limestone	1.5 to 1.6	75% rock–25% earth	1.9 to 2
Coal	0.7	50% rock–50% earth	1.7 to 1.8
Quicklime	0.9 to 1.3	25% rock–75% earth	1.6
Slaked lime	1.1 to 1.3		
Chalk	1.8 to 2.6	Sand (dry)	1.5
Granite	1.6 to 1.7	Sand (moist)	1.9
Sandstone	1.6	Gravel (dry)	1.7 to 1.8
Crushed gypsum	1.6	Gravel (moist)	2
Marl clay	2.2		

APPROXIMATE LOOSE MATERIAL DENSITIES UNITS OF MEASURE AND CONVERSION TABLES

UNITS OF MEASURE AND CONVERSION TABLES

MEASUREMENT	ABBREVIATION	CONVERSION FACTOR	ABBREVIATION	MEASUREMENT	CONVERSION FACTOR	ABBREVIATION
TORQUE						
pound-foot	lb ft	x 0.1383	= m kg	kilogramme metre	x 7.233	= lb ft
kilogramme metre	m kg	x 9.81	= m N	Newton metre	x 0.102	= m kg
LENGTH						
inch	in	x 0.0254	= m	metre	x 39.37	= in
foot	ft	x 0.3048	= m	metre	x 3.281	= ft
yard	yd	x 0.9144	= m	metre	x 1.0936	= yd
mile	ml	x 1.6093	= km	kilometre	x 0.6214	= ml
LOAD						
pound	lb	x 0.4536	= kg	kilogramme	x 2.205	= lb
long ton (G.B.) 2240 lb	lg ton	x 1.016	= t	metric tonne	x 0.984	= lg ton
short ton (U.S.) 2000 lb	sh ton	x 0.907	= t	metric tonne	x 1.103	= sh ton
DENSITY						
pound per cubic foot	lb/cu ft	x 16.0184	= kg/m ³	kilogramme/m ³	x 0.625	= lb/cu ft
pound per cubic yard	lb/cu yd	x 0.5933	= kg/m ³	kilogramme/m ³	x 1.686	= lb/cu yd
PRESSURE						
kilo-pascal	kPa	x 0.01	= bar	bar	x 100	= kPa
atmosphere (at sea level)	atm	x 0.986	= bar	bar	x 1.014	= atm
pound per square inch	P.S.I.	x 0.0703	= kg/cm ²	kilogramme/cm ²	x 14.22	= P.S.I.
pound per square inch	P.S.I.	x 0.069	= bar	bar	x 14.513	= P.S.I.
pound per square inch	P.S.I.	x 0.068	= atm	atmosphere	x 14.7	= P.S.I.
pound per square inch	P.S.I.	x 6.895	= kPa	kilo Pascal	x 0.145	= P.S.I.
POWER						
french horse power	C.V.	x 0.7355	= KW	kilowatt	x 1.36	= C.V.
horse power	H.P.	x 0.7457	= KW	kilowatt	x 1.34	= H.P.
french horse power	C.V.	x 0.98	= H.P.	horse power	x 1.014	= C.V.
VOLUME/CAPACITY						
cubic foot	cu ft	x 0.02832	= m ³	cubic metre	x 35.31	= cu ft
cubic yard	cu yd	x 0.7646	= m ³	cubic metre	x 1.308	= cu yd
gallon (U.S.)	gal	x 3.7854	= l	liter	x 0.2642	= gal
TEMPERATURE						
degree fahrenheit	°F	- 32 et x (5/9)	= °C	degree Celsius	x (9/5) et + 32	= °F

FOOTNOTES & CAUTION

- (1) explanation about TKPH (TMPH)
- (2) explanation of the different characteristics
- (3) explanation about rim size marking
 example: 44.00/5.0 [6.0]
 the 1st value indicates rim width in inch (in this example: 44 inches)
 the 2nd value indicates the height of the rim flange (in this example: 5 inches)
 the 3rd value indicates the width of the rim flange (in this example: 6 inches)
- (5) increase pressure by 0,5 bar on the loader front axle
- (6) and in the EARTHMOVER TIRE USE AND MAINTENANCE GUIDE BY MICHELIN
 explanation about TG rim
- (8) manufacture is discontinued (commercial description highlighted to attract attention)
- (9) special order only (commercial description highlighted to attract attention) Consult your local Michelin representative
- (10) explanation of the various tables of load according to the use and to the tire position and how to determine pressures
 It is imperative to follow the explanation given Not following these instructions may impact tire performance
- (12) never exceed 6 bar
- (13) The removable flange must be continuous along its circumference, with no opening
 * The flange must be continuous in full-circumference, not open or split
 ** The «H» is on the tire side, the G of the norm is on the external part and until the rim bole
- (14) Diameter: Left column, fixed side; right column, removable side.

All values shown in these tables are maximums and should not be exceeded.

[illegible]

NOTES

[illegible]

[illegible]



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EARTHMOVER TIRES