

*MICHELIN REVEALS  
A NEW GENERATION  
OF RDT TYRES*

# **MICHELIN<sup>®</sup>** **X<sup>®</sup>TRA LOAD**

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**PRESS KIT**

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# 01.

MICHELIN REVEALS  
A NEW GENERATION  
OF RDT TYRES

**MICHELIN®**  
**X®TRA LOAD**

The first ever '3 star' 24.00R35 tyres on the market – a new tyre range for 40 to 80 ton payload rigid dump trucks (RDTs) with an increased load capacity, an improvement in tyre life and a big productivity increase through an improved TKPH/TMPH.



## MICHELIN® X®TRA LOAD *GRIP*

for soft, loose, muddy ground conditions – as often experienced in mining and quarrying operations on slopes/inclines, where the priority is high grip and traction.



## MICHELIN® X®TRA LOAD *PROTECT*

for hard, sharp abrasive conditions on flat, dry surfaces – where the priority is protection and damage resistance, such as quarries and construction sites

# 02.

## **MICHELIN® X®TRA LOAD**



After many years and billions of tons of materials moved, Michelin is replacing the **XDT**, **X®Quarry S** and **X®HAUL**, the reference tyres for RDTs in the range tyre of size – 24.00R35. The increased payload potential of the new product range is reflected in the new name – **MICHELIN X®TRA LOAD**. The new tyre range for 40 to 80 ton payload RDTs will be available from 1 July 2017 and will be the first ever '3 star' 24.00R35 tyre on the market.

**The new MICHELIN® X®TRA LOAD range will allow users to maximise the productivity and continuity of their operations; whatever the conditions of use. In addition to the increased load capacity, the X®TRA LOAD range boasts an improvement in tyre life and a big increase in the TKPH – so larger loads can be moved further, in the same time period! The three main areas of improvement are as follows:**

**LOAD CAPACITY** is key to all earthmoving machinery and the new reinforced casing of the new **MICHELIN® X®TRA LOAD** makes it the first 24.00R35 tyre on the market to be credited with a '3 star' rating<sup>1</sup>. This is the result of an optimised design which improves stress distribution within the tyre. In practical terms this equates to an 8% higher payload or an increase of 9 tons in load capacity per machine; a huge increase in productivity when multiplied by the number of cycles made daily.

**WEAR RESISTANCE** of the **X®TRA LOAD** has also been increased by 8% over the **X®QUARRY S** due to an increased volume of rubber in the new tread design and better load distribution across the contact patch. The volume of rubber in the new range is at least 9% more than in **X®QUARRY S** and almost 30% more than in some of leading competitors' tyres of the same size. Additionally this greater volume of tread rubber in contact with the ground gives better load distribution, improved wear resistance and an increase in tyre life. Tyre endurance is also increased due to new tread patterns. **MICHELIN® X®TRA LOAD PROTECT**, particularly, has interlocking blocks and improved heat dissipation that reduce the temperature in the tread area by up to 12°C.

**PRODUCTIVITY**, as measured by TKPH/TPMH<sup>2</sup>, quantifies productivity and is a function of load and distance covered in an hour. For, respectively, the new **X®TRA LOAD GRIP** and **X®TRA LOAD PROTECT**, the TKPH is increased by at least 20,3% and 13,8% in the A4 compound, and at least 11,7% et 41,7% for the B compound, when compared against previous Michelin ranges. This extended load and speed capability will allow users to optimise machine cycles and increase productivity.

<sup>1</sup> Previously most 24.00R35 tyres carried a \*\* rating; the X®TRA LOAD is the first carrying a \*\*\* rating.  
Star rating is the industry indicator of load capacity for a given dimension - Tire and Rim Association

<sup>2</sup> Tons Kilometre / Miles per Hour

# 02.

## **MICHELIN® X®TRA LOAD**

The new MICHELIN® X®TRA LOAD tyre is available in two variants, targeted at the two main surfaces experienced by RDTs:

- **MICHELIN® X®TRA LOAD GRIP**

– for soft, loose, muddy ground conditions – as often experienced in mining and quarrying operations on slopes/ inclines, where the priority is high grip and traction.

- **MICHELIN® X®TRA LOAD PROTECT**

– for hard, sharp abrasive conditions on flat, dry surfaces – where the priority is protection and damage resistance, such as quarries and construction sites

With the two tread compounds (A4 and B) this means a simplified range for users and easier stock management for dealers. The evolution in the Michelin offer is as below:

<i>XDTA4**</i>	replaced by	<b><i>X®TRA LOAD GRIP A4***</i></b>
<i>XDTB**/X-TRACTION SC</i>	replaced by	<b><i>X®TRA LOAD GRIP B***</i></b>
<i>X-QUARRY S**</i>	replaced by	<b><i>X®TRA LOAD PROTECT A4***</i></b>
<i>X-HAUL**</i>	replaced by	<b><i>X®TRA LOAD PROTECT B***</i></b>



# 03.

## MICHELIN® X<sup>®</sup>TRA LOAD GRIP

• For soft, loose, muddy ground conditions – as often experienced in mining and quarry operations on slopes/ inclines, where the priority is high grip and traction.

• Replaces the XDT and X<sup>®</sup>TRACTION tyre

• 8% higher payload due to reinforced casing

• Increased grip due to 30% more lug edges than the XDT in the contact patch to improve traction.

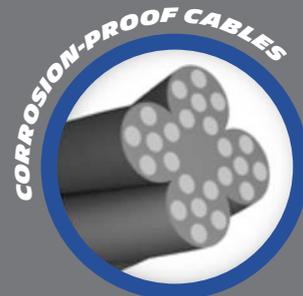
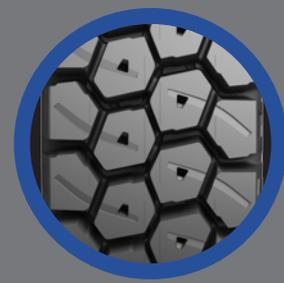
• Higher TKPH – as a result of new tread pattern and cooler running tyre;

- A4 compound – 320 TKPH for X<sup>®</sup>TRA LOAD GRIP compared to 266 TKPH for XDTA4 – an increase of 20.3%

- B Compound – 503 TKPH for X<sup>®</sup>TRA LOAD GRIP compared to 444 TKPH for XDTB – an increase of 11.7%

• 8% more wear resistance - more rubber in the contact patch and improved damage resistance with corrosion isolating steel cables. An increase of 17% more rubber in the tread pattern compared to the previous XDT, and 19% more than the BRIDGESTONE<sup>®</sup> VMTP

• Original Equipment homologations during 2017; OE launch in December 2017.



+17% compared to MICHELIN<sup>®</sup> XDT™  
+19% compared to BRIDGESTONE<sup>®</sup> VMTP



MICHELIN<sup>®</sup>  
X<sup>®</sup>TRA LOAD GRIP™



BRIDGESTONE<sup>®</sup>  
VMTP

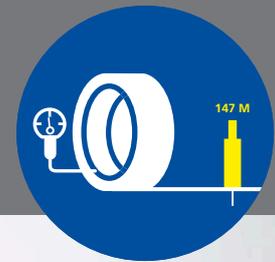
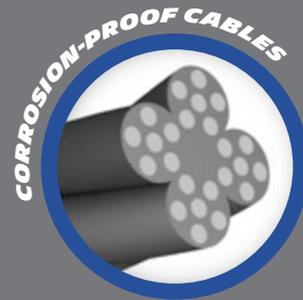
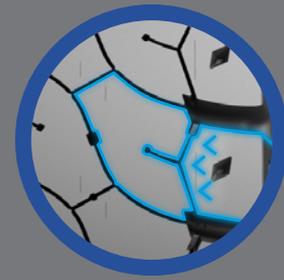


MICHELIN<sup>®</sup>  
XDT™

# 04.

## MICHELIN® X®TRA LOAD PROTECT

- For hard, sharp abrasive conditions on flat, dry surfaces – where the priority is protection and damage resistance, such as quarries and construction sites.
- Replaces the X®QUARRY S and X®HAUL tyres
- 8% higher payload due to reinforced casing
- higher TKPH – as a result of new tread pattern and cooler running tyre;
  - A4 compound – 320 TKPH for X®TRA LOAD PROTECT compared to 281 TKPH for X®QUARRY S – an increase of 13.8%
  - B Compound – 503 TKPH for X®TRA LOAD PROTECT compared to 355 TKPH for X®HAUL – an increase of 41.7%
- New tread pattern incorporating interlocking shoulder blocks and a better load distribution across the contact patch
- 8% more wear resistance - more rubber in the contact patch and improved damage resistance with corrosion isolating steel cables. An increase of 9% more rubber in the tread pattern compared to the previous X®QUARRY S, and 29% more than the BRIDGESTONE® VRLS
- Highly protective and damage resistant new tread pattern – can withstand a penetrating object up to 147mm without damage to the tyre.
- Original Equipment homologations during 2017; OE launch in December 2017.



**+9%** compared to MICHELIN® X® QUARRY™ S  
**+29%** compared to BRIDGESTONE® VRLS



MICHELIN®  
X®TRA LOAD PROTECT™



BRIDGESTONE®  
VRLS



MICHELIN®  
X® QUARRY™ S

# 04.

## **MICHELIN IN NUMBERS AND LANDMARK DATES**

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**FOUNDED:** **1889**

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**PRODUCTION FACILITIES:** **68** factories in **17 countries**

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**STAFF:** **111, 700** employees worldwide

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**RESEARCH AND DEVELOPMENT:** More than **6, 000** research staff working in three continents (North America, Europe and Asia)

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**RESEARCH AND DEVELOPMENT BUDGET (2016):** More than **€700 million**

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**ANNUAL PRODUCTION** **187 million** tyres produced, more than **8 million** maps and guides sold in more than **170 countries**, **\$ 196 billion** of kilometers calculated by ViaMichelin and **39 million** reservations booked via BookaTable (including Michelin Restaurant) in 2016

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**NET REVENUE (2016):** **€ 20.9** billion

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Michelin, the leading tire company, is dedicated to enhancing its clients' mobility, sustainably; designing and distributing the most suitable tires, services and solutions for its clients' needs; providing digital services, maps and guides to help enrich trips and travels and make them unique experiences; and developing high-technology materials that serve the mobility industry. Headquartered in Clermont-Ferrand, France, Michelin is present in 170 countries, has 111,700 employees and operates 68 production facilities in 17 countries which together produced 187 million tires in 2016. ([www.michelin.com](http://www.michelin.com))