Your Michelin solutions for CATERPILLAR
TYRE USE

Comparison between bias and radial tyres

Classification of earthmover Michelin tyres

Different earthmover Michelin tyres tread
  - Tread depths
  - Tread compounds
  - Tread patterns

EARTHMOVER TYRES FOR QUARRY AND CONSTRUCTION 6 to 13

Tyres for loaders

Tyres for rigid dump trucks with payload up to 100 tonnes

Tyres for articulated dump trucks

Tyres for graders

PRODUCT LIFE 14
COMPARISON BETWEEN BIAS AND RADIAL TYRES

Bias or cross ply construction

Advantages:
• long tyre 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
• protect property and persons

The sidewall and tread function separately.
The tread is unaffected by the flexing of the sidewalls, so there is:
• less deformation of the tyre contact area on the ground
• less movement in the tread contact area.
The casing plies tend to “scissor” in relation to each other

Disadvantages:
• accelerated wear
• less grip
• increased fuel consumption

The crown and sidewalls are formed by the same ply structure.
The tread is affected by flexing of the sidewalls, resulting in:
• deformation of the tyre contact area on the ground
• movement in the tread contact area.
The casing plies tend to “scissor” in relation to each other

The MICHELIN® X® radial

Advantages:
• long tyre 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
• protect property and persons

The casing has only one radial ply.
The crown is stabilized by several plies.

The casing is made up of several criss-crossed plies.
The crown is not stabilized.
### Classification of Michelin Tyres

According to their aspect ratio

The wide diversity of earthmover machines and their uses requires the development of numerous ranges of tyres.

Earthmover tyres differ from those mounted on cars or commercial vehicles by:
- Their size and weight
- Their tread depths are proportionally greater
- More reinforcements to deal with the harsher conditions of use

There are several families of earthmover tyres, characterized by their aspect ratio \( \frac{H}{S} \) (ratio in % between the height of the sidewall \( H \) and the section width of the tyre \( S \)).

\[ H = \text{standard section height} - S = \text{standard section width} \]

### 100 Series (Standard)
- The \( H/S \) ratio is approximately equal to 1.

The nominal section width is expressed in inches with decimal places.
Examples: 18.00 R 33
Tyres for rigid trucks, handling equipment, etc…

The aspect ratio is not indicated in the size designation.

### 80 Series
- The \( H/S \) ratio is approximately equal to 0.80.

The nominal section width is expressed in:
- Inches or fractions of an inch
Examples: 8.25 R 15, 20.5 R 25
or
Examples: 59/80 R 63
Tyres for rigid trucks, articulated dumpers, loaders, handling equipment, etc…

The aspect ratio is not indicated in the size designation.

### 65 Series
- The \( H/S \) ratio is approximately equal to 0.65.

The nominal section width is expressed in inches or millimeters, followed by the number 65.
Examples: 35/65 R 33, 750/65 R 25
Tyres for large loaders, articulated trucks, etc…

### 90 Series
- The \( H/S \) ratio is approximately equal to 0.90.

The nominal section width is expressed in inches followed by the number 90.
Example: 50/90 R 57
Tyres for rigid trucks

Other series of tyres are also available: 95 series, 75 series, etc.
According to their tread depths

The tread depth ‘SUPER, D1, D2’ is sometimes indicated on the sidewall tyre.

Different Michelin earthmover tyre compounds

**Type A4:**
Particularly resistant to cuts, tread tearing and abrasion on very rough surfaces.

**Type A:**
Particularly resistant to cuts, tread tearing and abrasion at average speeds which are higher than those for A4 (above).

**Type B4:**
Compromise solution between abrasion resistance and average speed on rough surfaces.

**Type B:**
Higher resistance to internal heat generation on surfaces which are not particularly rough.

**Type C4:**
Adapted to running on long cycles at high speeds on well-maintained roads.

**Type C:**
Very high resistance to high average speeds on long cycles run on well-maintained roads.

Tread pattern

<table>
<thead>
<tr>
<th>Code</th>
<th>Tread pattern</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>C1</td>
<td>SMOOTH</td>
<td>Compactor</td>
</tr>
<tr>
<td>E1</td>
<td>RIBBED</td>
<td>Transport</td>
</tr>
<tr>
<td>E2</td>
<td>TRACTION</td>
<td>Transport</td>
</tr>
<tr>
<td>E3</td>
<td>ROCK</td>
<td>Transport</td>
</tr>
<tr>
<td>E4</td>
<td>ROCK (deep tread)</td>
<td>Transport</td>
</tr>
<tr>
<td>E7</td>
<td>FLOTATION</td>
<td>Transport</td>
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<tr>
<td>G1</td>
<td>RIBBED</td>
<td>Grader</td>
</tr>
<tr>
<td>G2</td>
<td>TRACTION</td>
<td>Grader</td>
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<tr>
<td>G3</td>
<td>ROCK</td>
<td>Grader</td>
</tr>
<tr>
<td>G4</td>
<td>ROCK (deep tread)</td>
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</tr>
<tr>
<td>G5</td>
<td>ROCK (very-deep tread)</td>
<td>Grader</td>
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<tr>
<td>L2</td>
<td>TRACTION</td>
<td>Loader</td>
</tr>
<tr>
<td>L3</td>
<td>ROCK</td>
<td>Loader</td>
</tr>
<tr>
<td>L4</td>
<td>ROCK (deep tread)</td>
<td>Loader</td>
</tr>
<tr>
<td>L5</td>
<td>ROCK (very-deep tread)</td>
<td>Loader</td>
</tr>
<tr>
<td>L3S</td>
<td>SMOOTH</td>
<td>Bulldozer</td>
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<tr>
<td>L4S</td>
<td>SMOOTH (deep tread)</td>
<td>Bulldozer</td>
</tr>
<tr>
<td>L5S</td>
<td>SMOOTH (very-deep tread)</td>
<td>Bulldozer</td>
</tr>
</tbody>
</table>

In addition, Michelin provides complementary identification to most earthmover tyres:

- T = Traction
- R = Rock
- V = speed
- F = Flotation
- P = Multi purpose
- S/R = Smooth/Rock

e.g.: L3T "Normal tread depth tyre (L3; Standardized identification code) where traction is needed (T; Michelin code)"
MULTIPURPOSE MACHINE FOR OCCASIONAL USE

- Highway maintenance
- Maintenance of parks & green spaces
- Rental machine
- Building/Public works

Road building

Infrastructure building sites (roads, railways, canals, dams etc.)

Logging

Recovery of aggregate and other materials

Extraction from quarry or mine face

Demolition

Management of waste and recycling

Industrial handling

SPECIALISED MACHINE FOR PRODUCTIVE USE

- XSNOPPLUS
- XTLA
- XLD 65 serie
- XLD D1
- XLD D2
- XMINED2
Tyre performance

As a result of a close partnership with the machine manufacturers and long experience with the users in the field, MICHELIN tyres are developed with a single objective: maximising the efficiency of your loader when carrying out everyday tasks.

Customised offer

For extreme usage requiring a high level of protection, it is possible to fit tyres for underground mining machines to your loader. Your MICHELIN representative is available to discuss the best solution with you.

Michelin offer for Caterpillar

<table>
<thead>
<tr>
<th>Cat Models</th>
<th>Tyre size</th>
<th>XSNPLUS</th>
<th>XTLA</th>
<th>XHA</th>
<th>XHAXA2</th>
<th>XLD</th>
<th>XLD D1</th>
<th>XLD D2</th>
<th>XMINE D2</th>
<th>XLD 6S</th>
<th>XLD 65</th>
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<td>✔</td>
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<tr>
<td>924K, 930K, 938K</td>
<td>600/65 R 25</td>
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<td>✔</td>
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<td>650/65 R 25</td>
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<tr>
<td>950K, 950H, 962K, 966K, 966H, 972K, 972H</td>
<td>750/65 R 25</td>
<td>✔</td>
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<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
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</tr>
</tbody>
</table>

(BOLD): current models

Michelin tyres are not approved on block handling machines
RT: Replacement only
(1): Replacement only: 950K, 962K

(1) evaluation based mainly on the inertia of rotating masses
Tyres for rigid dump trucks with payload up to 100 tonnes

- **Public works**
  - Infrastructure building sites (roads, railways, canals, dams etc.)
- **Rental machine**
- **Road building**
- **Use in quarries or mines**
Michelin offer for Caterpillar

Tyre performance

MICHELIN tyres aim to achieve a lifespan and an unrivalled resistance to damage in any given condition. They also contribute to reducing the downtime of your machines and increase the productivity of your tasks.

In order to adapt the TKPH of the tyre to that of your building site, various types of rubber are available in the dimensions 24.00 R 49 and 27.00 R 49. Consult your MICHELIN representative to discuss the available solution.

Customised offer

In order to meet to your specific needs, your MICHELIN representative can advise you on the following tyres:

- **XVC (18.00 R 33, 24.00 R 35 and 27.00 R 49)** for very high speeds, ideal for long cycles on developed slopes.
- **XDT A4 version for quarries or mines** of very sharp materials such as slate or diorite requiring an increased level of traction on soft ground.
- **XS (18.00 R 25 and 21.00 R 25)** for effective mobility on sand.

These products are available on special order following an analysis of your building site by your MICHELIN representative.

Michelin offer for Caterpillar

<table>
<thead>
<tr>
<th>Cat Models</th>
<th>Tyre size</th>
<th>Tread patterns</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>770G / 770</strong></td>
<td>18.00 R 33</td>
<td>✓</td>
</tr>
<tr>
<td><strong>772G / 772</strong></td>
<td>21.00 R 33</td>
<td>✓</td>
</tr>
<tr>
<td><strong>773G / 773F</strong></td>
<td>24.00 R 35</td>
<td>✓ (1)</td>
</tr>
<tr>
<td><strong>775G / 775F</strong></td>
<td>24.00 R 35</td>
<td>✓ (1)</td>
</tr>
<tr>
<td><strong>777G / 777F</strong></td>
<td>27.00 R 49</td>
<td>✓ (2)</td>
</tr>
</tbody>
</table>

(BOlD): current models

(1) X-TRACTION SC
(2) X-TRACTION (S) B and X-TRACTION B as OE default choices.
X-TRACTION B4 or A4 available for RT specific need expressed by End Users
XDT B as OE default choice. XDT A4 available for RT specific need expressed by End Users
XDT B4 available for RT specific need expressed by End Users
XDT A and XDT A4 available for RT specific need expressed by End Users
XDR2 B as OE default choice. XDR2 B4 and XDR2 A available for RT specific need expressed by End Users

Tyre size

<table>
<thead>
<tr>
<th>Tyre size</th>
<th>X-TRACTION</th>
<th>XDT B</th>
<th>X-HAUL (S)</th>
<th>X-QUARRY (S)</th>
<th>XDR2 B</th>
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<tbody>
<tr>
<td>18.00 R 33</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>21.00 R 33</td>
<td>✓</td>
<td>✓</td>
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<tr>
<td>24.00 R 35</td>
<td>✓ (1)</td>
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<td>24.00 R 35</td>
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<td>✓ (3)</td>
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<td>✓ (5)</td>
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</tbody>
</table>

(1) evaluation based mainly on the inertia of rotating masses
Tyres for articulated dump trucks

- Multipurpose use on mobile building sites
  - Rental machine

- Intensive use on long-term building site
  - Public works
  - Infrastructure building sites (roads, railways, canals, dams etc.)
  - Road building
  - Use in quarries or mines

Tyre models:
- XADN / XADN +
- XAD 65
- X-SUPER TERRAIN / X-SUPER TERRAIN +
## Tyre performance

<table>
<thead>
<tr>
<th>Tyre size</th>
<th>X-SUPER TERRAIN</th>
<th>X-SUPER TERRAIN</th>
<th>XADN / XADN</th>
<th>XADN / XADN +</th>
<th>XAD 65</th>
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<tbody>
<tr>
<td>23.5 R 25</td>
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<td>✔</td>
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</tr>
<tr>
<td>650/65 R 25</td>
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<tr>
<td>750/65 R 25</td>
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</tr>
<tr>
<td>26.5 R 25</td>
<td>✔</td>
<td>✔</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>26.5 R 25 (D)</td>
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<td></td>
<td></td>
<td>(D)</td>
<td></td>
</tr>
</tbody>
</table>

(1) evaluation based mainly on the inertia of rotating masses.

### Customised offer

In order to meet to your specific needs, your MICHELIN representative can advise you on the following tyres:
- **29.5 R 25 XADN E3V TL 200E**: ideal for high speeds and long cycles.
- **29.5 R 25 XS E7 SAND TL 196E**: specifically for mobility on sand.

These products are available on special order following an analysis of your building site by your MICHELIN representative.

### Michelin offer for Caterpillar

<table>
<thead>
<tr>
<th>Cat Models</th>
<th>Tyre size</th>
<th>Tread patterns</th>
</tr>
</thead>
<tbody>
<tr>
<td>725</td>
<td>23.5 R 25</td>
<td>✔</td>
</tr>
<tr>
<td>750</td>
<td>23.5 R 25</td>
<td>✔</td>
</tr>
<tr>
<td>730 Ejector</td>
<td>750/65 R 25</td>
<td>✔</td>
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<tr>
<td>735</td>
<td>26.5 R 25</td>
<td>✔</td>
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<tr>
<td>735 B</td>
<td>26.5 R 25</td>
<td>✔ (D)</td>
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<td>740B / 740</td>
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<tr>
<td>740B Ejector</td>
<td>29.5 R 25</td>
<td>✔</td>
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</table>

(80LD): current models  
(D): Derogation
Tyres for graders

Snow clearance

Highway maintenance

Public works

Rental machine

Road building

Transport infrastructure building sites (roads, railways, canals, dams etc.)

Maintenance of quarry or mine slopes

LIMITED or SEASONAL USE

XSNOPLUS

XTLA

XGLA2

XHA2

XLD 65 serie

XLD D2
Tyre performance

MICHELIN tyres are designed to ensure availability of your machine and reduce costs of usage.

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<table>
<thead>
<tr>
<th>Tyre Size</th>
<th>Traction</th>
<th>Resistance to shocks, breaks, perforations</th>
<th>Long service life</th>
<th>Fuel saving (1)</th>
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<tbody>
<tr>
<td>XSNPLUS</td>
<td><img src="image" alt="Graph" /></td>
<td><img src="image" alt="Graph" /></td>
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<td><img src="image" alt="Graph" /></td>
<td><img src="image" alt="Graph" /></td>
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</table>

(1) evaluation based mainly on the inertia of rotating masses.

---

Customised offer

For extreme usage requiring a high level of protection, it is possible to fit tyres for underground mining machines to your grader. Your MICHELIN representative is available to discuss the best solution with you.

---

Michelin offer for Caterpillar

---

<table>
<thead>
<tr>
<th>Cat Models</th>
<th>Tyre size</th>
<th>XGLA2</th>
<th>XSNPLUS</th>
<th>XTLA</th>
<th>XHA4</th>
<th>XHA2</th>
<th>XLD D2</th>
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</tbody>
</table>
| 24M | 29.5 R 29 | | | | | | | ✓ (D)

(BOLD): current models
(D) Derogation
PRODUCT LIFE

Tyres are made from different types of materials and rubber-based components, whose properties are essential to the proper running of the tyre itself. These properties evolve over time.
For each tyre, this evolution depends on many factors, such as climate, storage conditions (temperature, humidity, position, etc.), conditions of use (load, speed, inflation pressure, road damage, etc.) to which the tyre is subjected during its working life.

These ageing factors vary so much that it is impossible to predict the life of a tyre with any accuracy. This is why, in addition to regular user checks, it is recommended to have the tyres regularly checked by a qualified professional, who will determine whether the tyre is fit to continue in operation.
This inspection must be carried out at least once a year.

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 Tyres.

Michelin advice

Our recommended conditions of storage, tyre selection, mounting, inflation, pressure, tyre use and its limits, tyre monitoring, repairs or similar interventions, and tyre maintenance, as stipulated by Michelin, must be followed and respected by our clients who in turn are held to inform the end users.
“Our clients should train their employees who are involved in placing our products with the end users and prohibit all repairs (tyre punctures, rim welding) without first demounting the tyre. If in doubt, we invite you to consult our technical documentation or one of our technicians, or, ultimately, our web site at www.michelinearthmover.com”

The following information is extracted from the Use and Maintenance Guide for Michelin Earthmover Tyres available at www.michelinearthmover.com or consult your Michelin representative.
### Cat Models

<table>
<thead>
<tr>
<th>Tyre size</th>
<th>Tread patterns</th>
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<tr>
<td>18.00 R 33</td>
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### NOTES