Moisture in a tyre can damage the casing. Stock tyres in dry area. Dry interior before mounting. Inflate with dry air.

Always deflate tyre completely before removing lock or side rings.

Never use wheels of different manufacturers or different sizes.

Never mount tyres on wheels which are damaged or not smooth and clean.

Always clean and inspect wheel. Lubricate beads and rim flanges for tubeless types, tube and rim side of flap with an approved rubber lubricant.

Always be sure that all wheel components are properly seated before inflating.

Always use a extension hose with gauge and clip-on chuck.

Never inflate beyond 1.5 bar prior to placing the tyre/wheel assembly in a safety cage.

Always use a safety cage or other restraining device when inflating the tyre to seat the beads and/or inflating the tyre to normal operating inflation pressure.

Always stand, lean or reach over the lynchwheel assembly during inflation.

After beads are fully seated, adjust the tyre to recommended inflation pressure of vehicle manufacturer.

Never mount radial and bias tyres on the same axle. Follow vehicle manufacturer’s recommendations.

Tyres must be removed from the vehicle when remaining tread depth reaches regulated minimum tread depth in a country.

Tyres must be removed from the vehicle when remaining tread depth reaches regulated minimum tread depth in a country.

Never use the unmatched tread pattern for their intended service conditions.

Availability of products shown in this table may vary from country to country. Please consult your YOKOHAMA distributor for local availability.

Tyre Selection Reference

<table>
<thead>
<tr>
<th>Type of operation</th>
<th>Axle position</th>
<th>Road conditions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steer (Front)</td>
<td>Drive</td>
<td>Unpaved road</td>
</tr>
<tr>
<td>Drive</td>
<td>Trailer</td>
<td></td>
</tr>
</tbody>
</table>

Long Distance Transport

(one-way transport distance of more than 300km)

RY557, Y772M/MII

RY557, Y772M/MII

RY557

Regional Distance Transport

(one-way transport distance of 300km or less)

RY023, Y772M/MII, Y785R

TY303, Y772M/MII, Y785R

RY203, Y357, Y785R

On/Off Road Short Distance Transport

MY547, MY507, Y773

LY717, Y773

Y773

less than 20%

Never use a tyre under the following conditions and replace such tyre immediately:

- If the tread has worn to the tread wear indicator.
- If the fabric appears thin.
- If cords or wires are exposed.

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Delivering top quality YOKOHAMA Tyres to customers everywhere

We at YOKOHAMA will be celebrating our 100th anniversary in 2017. Ever since we were established, our focus as a tyre manufacturer has been to produce the highest quality tyres possible, since tyres are a component critical to vehicle safety. Thanks to the loyalty of our customers, our company now manufactures and delivers tyres to destinations around the world. We are pleased to provide this product that serves to support the daily lives of our customers and keep them fully satisfied.

In this connection, we work to boost our technologies on a daily basis. We integrate not only our tyre plants in Japan but at our overseas locations with cutting-edge production facilities and sophisticated technology standards to produce the highest quality product. Our promise is to deliver products that customers love from our plants across the globe to customers around the world.

At YOKOHAMA, we are keenly aware of the changing times, which means we never lose our passion to continuously improve safety, quality, and performance — no matter where our tyres are produced.

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Since its establishment in 1917, The Yokohama Rubber Co., Ltd. (YRC) has introduced a wide range of tyre, industrial, golf and other products. For the benefit of every customer and society, we are dedicated to continuously advancing all production, sales and technology development processes within the YOKOHAMA Group in Japan and throughout the world. Our mission is to "deliver the best products at competitive prices and on time." This, of course, requires the utmost attention to safety and environmental concerns.

Each and every member of the YOKOHAMA Group puts great passion and commitment into providing leading technologies and products that meet the needs of the times. Our earnest hope is to contribute to the well-being of people, society and the world.

Tyre Group

By developing and manufacturing a wide range of high-quality tyres, we earn the trust of people across the spectrum of society who rely on YOKOHAMA products. These range from car tyres with a distinctive flair to reliable truck and bus tyres that support essential transport and logistics needs and extra-tough off-the-road tyres at resource development, mining and construction sites.

Long Distance Transport

- Steer axle/Drive axle
  - TY 9023
  - TY 9025
- Trailer axles
  - TY 303
- All positions

Regional Distance Transport

- Steer axle/Drive axle
  - TY 357
- Steer axle
  - TY 572M
- Trailer axles
  - TY 357
- All positions

On/Off Road Short Distance Transport

- Steering
  - TY 357
- Drive axle
  - TY 772M
- All positions

YOKOHAMA at a Glance

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Long Distance Transport

- Steer axle/Drive axle
  - TY 357
- Trailer axles
  - TY 357

Regional Distance Transport

- Steer axle/Drive axle
  - TY 357
- Steer axle
  - TY 772M
- Trailer axles
  - TY 357
- All positions

On/Off Road Short Distance Transport

- Steering
  - TY 357
- Drive axle
  - TY 772M
- All positions

YOKOHAMA ORIGINAL TREAD PATTERN CODES

- RY: Rib (All-Positions / Steer / Trailer)
- Y1: Traction Block (Drive)
- MY: Rib / Lug (Mixed Service) (All Positions / Steer / Trailer)
- LY: Lug (Drive)

IMPORTANT NOTE: Do not mix different tyre size designations or constructions on the same axle. Always use the tyres for their intended service purposes.

*Some sizes of this tyre can be used on different axles. Please contact your local YOKOHAMA distributor for details.
INTRODUCING YOKOHAMA PRODUCT

The Prevention of Uneven Wear

Typical Patterns of Uneven Wear

- **Centre Wear**
  - Causes:
    - 1. Overinflation.
    - 2. Improper wheel alignment.
    - 3. Improper wheel assembly.
  - Wavy conditions are created on some part of, or on whole circumference, of tire.

- **Wavy (Polygonal) Wear**
  - Causes:
    - 1. Excessive road load & tire pressure.
    - 2. Dynamic imbalance of tire.
  - Wavy conditions are created on some part of, or on whole circumference, of tire.

- **Spot Wear**
  - Causes:
    - 1. Radial breaking & road load.
    - 2. Excessive road load & tire pressure.

- **One-Sided Wear**
  - Causes:
    - 1. Load or number of loads.
    - 2. Improper tire wear due to high speed.
  - The shoulder wears faster than the center of the tread.

- **Step Wear**
  - Causes:
    - 1. Tread or cut-off of tire.
    - 2. Frequent shock in tire.
    - 3. Improper tire wear due to high speed.
    - 4. Buried sharp objects & bulging of tire tread.
  - The outer portion of the shoulder is worn faster than the inner portion.

- **Island Wear**
  - Causes:
    - 1. Radial breaking & road load.
    - 2. Excessive road load & tire pressure.
  - Some parts of tire wear less than the other parts, forming islands or coastlines.

- **Heel & Toe Wear**
  - Causes:
    - 1. Underinflation and/or overinflation.
    - 2. Buried sharp objects & bulging of tire tread.
  - One side of blocks or lugs on the tread wears faster than other side circumferentially.

- **Shoulder Wear**
  - Causes:
    - 1. Underinflation and/or overinflation.
    - 2. Buried sharp objects & bulging of tire tread.
  - Both shoulders are worn faster than the center of the tread.

- **Rib-punching Wear**
  - Causes:
    - 1. Fracture of metal or metal.
    - 2. Improper wheel alignment.
    - 3. Improper wheel assembly.
    - 4. Difference between outside diameter or pressure of dual tires.
  - One or two ribs in the center of the tread are worn faster than the other ribs.

- **Feather Edge Wear**
  - Causes:
    - 1. Improper wheel alignment.
    - 2. Underinflation.
  - The blocks of the ribbed tread wearing in a feather edge pattern.

- **Diagonal Wear**
  - Causes:
    - 1. Excessive road load & tire pressure.
    - 2. Improper wheel alignment.
  - One or several parts of the tread wear diagonally faster than the other parts of the tread surface.
Recommendations to ensure the top performance of your YOKOHAMA tyres.

Tyre Construction

Tread
Components used in the tread respond to the truck’s specific application needs. YOKOHAMA has chosen unique compound strategies to minimize treadwear rate, and maximize traction, fuel efficiency, and resistance to lapses, chipping and cracking.

Belt Edge Cushion
YOKOHAMA’s tyres feature a belt edge cushion to help prevent separation of the belt edges, and flanges the head caused by the shearing effect of the belt.

Inner Liner
YOKOHAMA’s inner liner is specially designed to maximize or individually aligned area of the inner liner for maximum protection for the pressure of the steel banding into the casing. YOKOHAMA’s special inner belt compound ensures a significantly longer running life.

Bead Filler
Two or more different compounds are used in YOKOHAMA’s tread (the rubbers subject to suffer the load for steering response and to control the flexing of other parts of the tyre).

Inflation Pressure

Truck tyres for commercial vehicles must be inflated to a pressure* suitable for the load, speed and condition of use to produce maximum performance in all aspects such as even wear (long mileage), traction and handling stability (riding comfort) in addition to safety issues.

*Check YOKOHAMA’s recommendation for inflation pressure in this booklet.

Tyre Wear Factors

INFLATION PRESSURE

- Tyre Mileage Index in %

<table>
<thead>
<tr>
<th>Recommended</th>
<th>100%</th>
<th>100%</th>
<th>150%</th>
</tr>
</thead>
</table>

-20% lower
-30% lower

CARRYING LOAD

- Tyre Mileage Index in %

<table>
<thead>
<tr>
<th>Normal load</th>
<th>100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overloaded</td>
<td>70%</td>
</tr>
</tbody>
</table>

The proper inflation pressure is essential for maximized performance of all kinds of tyre. YOKOHAMA recommends proper maintenance and utilization of a calibrated gauge / inflation pressure sticker or TPMS.

STOP/GO OPERATION

(Braking Abrasion)

- Tyre Mileage Index in %

| Long haul  | 100% |
| Regional   | 80%  |
| Urban      | 60%  |

Frequent “stop and go” results in additional stress and abrasion to tyres. YOKOHAMA recommends mild steering & braking especially while turning and curving in urban and local use.

Regrooving

Regrooving must be undertaken when only between 2 to 3mm of the original tread pattern remains, in accordance with YOKOHAMA’s recommendations in this booklet.

ECOLOGY-FUEL ECONOMY

The ecology and fuel economy issues are of great importance to transportation companies. YOKOHAMA tyres are designed to deliver excellent fuel economy with minimized trade-off of other performance aspects such as wet performance & tyre life.
**Long Distance Transport**

**Steer axle/Drive axle**

**RY557**

Elongated footprint design for long-haul operation on paved road.

- The wide tread rib design is engineered to increase mileage.

<table>
<thead>
<tr>
<th>PATTERN</th>
<th>5ED</th>
<th>PR</th>
<th>LS35</th>
<th>TUBE</th>
<th>Overall Width (mm)</th>
<th>Overall Diameter (mm)</th>
<th>Loaded Radius (mm)</th>
<th>Measured Rim (in)</th>
<th>Approved Rim (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RY557</td>
<td>315</td>
<td>156/156</td>
<td>134</td>
<td>TL</td>
<td>1006</td>
<td>1372</td>
<td>563</td>
<td>8.20</td>
<td>8.20, 9.00</td>
</tr>
</tbody>
</table>

** Trailer axles**

**RY357**

Wide base highway/regional use tyre for the trailer axles.

- 5-rb tread design enhances even wear and wet traction.
- Specially constructed casing makes this tyre well-suited for retreading.

**Steer axle/Drive axle**

**Y772M/Y772MII**

- All position radial for short to long haul operations. Designed for Middle East market.

<table>
<thead>
<tr>
<th>PATTERN</th>
<th>5ED</th>
<th>PR</th>
<th>LS35</th>
<th>TUBE</th>
<th>Overall Width (mm)</th>
<th>Overall Diameter (mm)</th>
<th>Loaded Radius (mm)</th>
<th>Measured Rim (in)</th>
<th>Approved Rim (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y772M</td>
<td>11</td>
<td>156/156</td>
<td>134</td>
<td>TT</td>
<td>994</td>
<td>1306</td>
<td>596</td>
<td>8.50</td>
<td>8.50, 10.00</td>
</tr>
<tr>
<td>Y772MII</td>
<td>12</td>
<td>156/156</td>
<td>134</td>
<td>TT</td>
<td>994</td>
<td>1306</td>
<td>596</td>
<td>8.50</td>
<td>8.50, 10.00</td>
</tr>
<tr>
<td>Y773M</td>
<td>12</td>
<td>156/156</td>
<td>134</td>
<td>TT</td>
<td>994</td>
<td>1306</td>
<td>596</td>
<td>8.50</td>
<td>8.50, 10.00</td>
</tr>
<tr>
<td>Y773MII</td>
<td>12</td>
<td>156/156</td>
<td>134</td>
<td>TT</td>
<td>994</td>
<td>1306</td>
<td>596</td>
<td>8.50</td>
<td>8.50, 10.00</td>
</tr>
</tbody>
</table>

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Please consult your YOKOHAMA distributor for local availability.

Some tyres carry a second load/speed index marking which indicates supplementary operational possibilities.
Regional Distance Transport

**Steer axle/Trailer axes**

**RYO23**

- Designed for Middle East market.
- All position radial for short to long haul operations.
- S-4/5 design delivers long mileage & shoulder wear resistance on steer axle use.
- Deep sub-grooves on ribs enhance wet traction.
- 8/9 load index for all variants.
- Outstanding traction with long mileage & shoulder wear resistance.
- Temperature resistance up to 125°C.
- Specially designed casing makes this tyre well-suited for re-tyre.

**RYO23M/RYO23MII**

- Designed for Middle East market.
- All position radial for short to long haul operations.
- S-4/5 design delivers long mileage & shoulder wear resistance.
- Deep sub-grooves on ribs enhance wet traction.
- Outstanding traction with long mileage & shoulder wear resistance.
- Temperature resistance up to 125°C.
- Specially designed casing makes this tyre well-suited for re-tyre.

**Drive axle**

**TY303**

- Designed for Middle East market.
- All position radial for short to long haul operations.
- S-4/5 design delivers long mileage & shoulder wear resistance.
- Deep sub-grooves on ribs enhance wet traction.
- Outstanding traction with long mileage & shoulder wear resistance.
- Temperature resistance up to 125°C.
- Specially designed casing makes this tyre well-suited for re-tyre.

**Trailer axles**

**RY357**

- Wide base highway/regional use tyre for the trailer axles.
- The RY357 delivers long mileage & shoulder wear resistance on trailer axle use.
- S-4/5 load index enhances even wear & wet traction.
- Temperature resistance up to 125°C.
- Specially designed casing makes this tyre well-suited for re-tyre.

**Y785R**

- All purpose tyres including low platform trailer tyre.
- S-4/5 design with straight grooves enhances even wear & wet traction.
- Temperature resistance up to 125°C.
- Specially designed casing makes this tyre well-suited for re-tyre.

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On/Off Road
Short Distance Transport

**Steer axle**

**MY547**

- All-purpose, all-position tyre for on & off construction-site operation.
- Deeper tread provides longer mileage while the shoulder knobs resist against shoulder wear.
- 3 zigzag grooves with shoulder knobs produce traction and enhance smooth wear in local operation.

**Universal patterns**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>PJ</th>
<th>LBS</th>
<th>TUBE</th>
<th>Tread Pattern</th>
<th>100% Working</th>
<th>90% Working</th>
<th>80% Working</th>
<th>70% Working</th>
<th>60% Working</th>
<th>50% Working</th>
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<tr>
<td>11.00x20</td>
<td>18</td>
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<td>1849</td>
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<td>12.00x20</td>
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<td>156/85K</td>
<td>TT</td>
<td>315</td>
<td>1129</td>
<td>9.00</td>
<td>8.00</td>
<td>8.00</td>
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<td></td>
</tr>
<tr>
<td>23.5/85R16</td>
<td>23</td>
<td>147/85K</td>
<td>TT</td>
<td>354</td>
<td>1222</td>
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<td>10.00x16</td>
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<td>1059</td>
<td>7.00</td>
<td>7.00</td>
<td>7.00</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Steer axle**

**MY507**

- All-purpose, all-position tyre for on & off construction-site operation.
- Deeper & wider tread increases the mileage while the solid shoulder knobs resist against shoulder wear.
- 3 or 4 waved grooves produce traction and drainage.
- Silica sections & Votaped grooves decrease store holding to enhance retreadability.

**Universal patterns**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>PJ</th>
<th>LBS</th>
<th>TUBE</th>
<th>Tread Pattern</th>
<th>100% Working</th>
<th>90% Working</th>
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<th>50% Working</th>
</tr>
</thead>
<tbody>
<tr>
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<td>1133</td>
<td>528</td>
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<td>3.00</td>
<td>5.75</td>
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</tr>
</tbody>
</table>

**Drive axle**

**LY717**

- Aggressive 4-block design with shoulder knobs produces dependable traction on rough surfaces.
- Deeper & wider tread increases the mileage.
- Tapered tread grooves reduce stone holding while newly-developed tread compound resists against cutting/chipping.

**Performance characteristics**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>PJ</th>
<th>LBS</th>
<th>TUBE</th>
<th>Tread Pattern</th>
<th>100% Working</th>
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<tbody>
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<td>8.00</td>
<td>8.00</td>
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</tbody>
</table>

**All positions**

**Y773**

- Wide design with shoulder knobs delivers long mileage & traction.
- Wide tread design with shoulder knobs produces dependable traction & drainage.
- The tread compound resists against cutting/chipping for extended mileage & retreadability.

**Performance characteristics**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>PJ</th>
<th>LBS</th>
<th>TUBE</th>
<th>Tread Pattern</th>
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<th>50% Working</th>
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</thead>
<tbody>
<tr>
<td>11.00x20</td>
<td>18</td>
<td>108/88K</td>
<td>TL</td>
<td>257</td>
<td>1137</td>
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<td>6.50</td>
<td>7.00</td>
<td>7.00</td>
</tr>
</tbody>
</table>

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### Regrooving Procedure

#### Long Distance Transport

**RY57**
- Pattern when new: 12.5/14.0
- Pattern when 70% worn: 6.0/7.0
- Pattern after regrooved: 2.2/2.9

<table>
<thead>
<tr>
<th>Type Size</th>
<th>Dimension of Regrooved</th>
<th>Dimension of Reconversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.5/14.0</td>
<td>2.2 mm</td>
<td>7.8 mm</td>
</tr>
<tr>
<td>12.0/13.0</td>
<td>2.2 mm</td>
<td>7.8 mm</td>
</tr>
</tbody>
</table>

**RY357**
- Pattern when new: 12.5/14.0
- Pattern when 70% worn: 6.0/7.0
- Pattern after regrooved: 2.2/2.9

<table>
<thead>
<tr>
<th>Type Size</th>
<th>Dimension of Regrooved</th>
<th>Dimension of Reconversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.5/14.0</td>
<td>2.2 mm</td>
<td>7.8 mm</td>
</tr>
<tr>
<td>12.0/13.0</td>
<td>2.2 mm</td>
<td>7.8 mm</td>
</tr>
</tbody>
</table>

#### Regional Distance Transport

**RY023 (RY037)**
- Pattern when new: 12.5/14.0
- Pattern when 70% worn: 6.0/7.0
- Pattern after regrooved: 2.2/2.9

<table>
<thead>
<tr>
<th>Type Size</th>
<th>Dimension of Regrooved</th>
<th>Dimension of Reconversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.5/14.0</td>
<td>2.2 mm</td>
<td>7.8 mm</td>
</tr>
<tr>
<td>12.0/13.0</td>
<td>2.2 mm</td>
<td>7.8 mm</td>
</tr>
</tbody>
</table>

**TY303**
- Pattern when new: 12.5/14.0
- Pattern when 70% worn: 6.0/7.0
- Pattern after regrooved: 2.2/2.9

<table>
<thead>
<tr>
<th>Type Size</th>
<th>Dimension of Regrooved</th>
<th>Dimension of Reconversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.5/14.0</td>
<td>2.2 mm</td>
<td>7.8 mm</td>
</tr>
<tr>
<td>12.0/13.0</td>
<td>2.2 mm</td>
<td>7.8 mm</td>
</tr>
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</table>

**Y357**
- Pattern when new: 12.5/14.0
- Pattern when 70% worn: 6.0/7.0
- Pattern after regrooved: 2.2/2.9

<table>
<thead>
<tr>
<th>Type Size</th>
<th>Dimension of Regrooved</th>
<th>Dimension of Reconversion</th>
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<tr>
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</tr>
<tr>
<td>12.0/13.0</td>
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<td>7.8 mm</td>
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**Y785R**
- Pattern when new: 12.5/14.0
- Pattern when 70% worn: 6.0/7.0
- Pattern after regrooved: 2.2/2.9

<table>
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<tr>
<th>Type Size</th>
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<tbody>
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<td>7.8 mm</td>
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<tr>
<td>12.0/13.0</td>
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<td>7.8 mm</td>
</tr>
</tbody>
</table>

#### On/Off Road Short Distance Transport

**MY547**
- Pattern when new: 12.5/14.0
- Pattern when 70% worn: 6.0/7.0
- Pattern after regrooved: 2.2/2.9

<table>
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<tr>
<th>Type Size</th>
<th>Dimension of Regrooved</th>
<th>Dimension of Reconversion</th>
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<tbody>
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<td>12.0/13.0</td>
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**MY507**
- Pattern when new: 12.5/14.0
- Pattern when 70% worn: 6.0/7.0
- Pattern after regrooved: 2.2/2.9

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<th>Dimension of Reconversion</th>
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<tr>
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</tr>
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</table>

**Y773**
- Pattern when new: 12.5/14.0
- Pattern when 70% worn: 6.0/7.0
- Pattern after regrooved: 2.2/2.9

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<th>Type Size</th>
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<th>Dimension of Reconversion</th>
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<tbody>
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</tr>
<tr>
<td>12.0/13.0</td>
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<td>7.8 mm</td>
</tr>
</tbody>
</table>

**LY717**
- Pattern when new: 12.5/14.0
- Pattern when 70% worn: 6.0/7.0
- Pattern after regrooved: 2.2/2.9

<table>
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<tr>
<th>Type Size</th>
<th>Dimension of Regrooved</th>
<th>Dimension of Reconversion</th>
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</thead>
<tbody>
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<tr>
<td>12.0/13.0</td>
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### جدول حمولة وضغط الهواء للإطارات

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<th>مدخلات الإطارات والهواء</th>
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<th>ضغط الهواء في كيلو باسكال</th>
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**ملاحظة:** يمكن استخدام هذه الجدول كمصدر للحماية والmaktadır للإطارات، لكن يجب على المستخدمين مراعاة قيم الهواء والضغط المناسبين حسب التوزيعات والأحوال الجوية المحلية.