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 an 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.

Never stand, lean or reach over the tyre/wheel assembly during inflation.

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

Never mount radials 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.

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

* Never use the unmatched tread pattern for their intended service conditions.
* Please consult YOKOHAMA distributors for detail, if some vehicle operations require specialized tyre fitment.
* TY607 shall be used only on regional transport for maximum performance.
* TY253 can be used on steer axle in long/regional operations too.
* MY507A can be used on steer axle in on & off short distance operation too.
* The steer tyres above might be used on drive axles in case of normal highway conditions.
* Availability of products shown in this table may vary from country to country. Please consult your YOKOHAMA distributor for local availability.

USER INFORMATION: Only specially trained personnel should mount tyres. Failure to comply with these tyre demounting/mounting safety precautions can cause the bead to break and the assembly to burst with sufficient force to cause serious injury or death.

- 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 an 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 tire to seat the beads and/or inflating the tyre to normal operating inflation pressure.
- Never stand, lean or reach over the tyre/wheel assembly during inflation.
- After beads are fully seated, adjust the tyre to recommended inflation pressure of vehicle manufacturer.
- Never mount radials 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.

- Storms, gravel and other foreign objects stuck in the tyre treads may damage the tyre. Remove foreign objects from the treads.
- Objects in the road such as potholes, glass, metal, rocks, wood debris, kerbstones and the like that could damage a tyre should be a safely avoided.
- To preserve traffic safety and tyre life, YOKOHAMA recommends driving safely and avoiding from hard acceleration, braking or cornering in unnecessary situation.
- When you feel the vehicle unstable or feel unusual noise or vibration, stop your vehicle in a safe place and inspect tyres. Even if no visible defects are found, drive slowly and ask your tyre dealer to inspect such tyre as soon as possible.

Never use a tyre under the following conditions and replace such tyre immediately:
- If the tread has worn to the tread wear indicator.
- If breaks in the fabric appear.
- If cords or wires are exposed.

Tyre Selection Guide

<table>
<thead>
<tr>
<th>Tyre Selection Reference</th>
<th>Axle position</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of operation</td>
<td>Steer (Front)</td>
</tr>
<tr>
<td>Long Distance Transport</td>
<td>107ZL, TY237</td>
</tr>
<tr>
<td>Regional Distance Transport</td>
<td>104ZR, TY023</td>
</tr>
<tr>
<td>On/Off Road Short Distance Transport</td>
<td>TY287, TY769</td>
</tr>
<tr>
<td>Short Distance, Urban, Local Multistop Transport</td>
<td>MY507, MY547, Y773</td>
</tr>
</tbody>
</table>

* Never use the unmatched tread pattern for their intended service conditions.
* Please consult YOKOHAMA distributors for detail, if some vehicle operations require specialized tyre fitment.
* TY237 shall be used only on steer axle in long-distance smooth road operation to deliver the maximum performance.
* TY607 shall be used only on regional transport for maximum performance.
* TY253 can be used on steer axle in long/regional operations too.
* MY507A can be used on steer axle in on & off short distance operation too.
* The steer tyres above might be used on drive axles in case of normal highway conditions.
* Availability of products shown in this table may vary from country to country. Please consult your YOKOHAMA distributor for local availability.
 relian technology based on world-class research and development is essential for developing and providing YOKOHAMA products that are safe and reliable, while also helping to preserve the environment. At every stage of design, testing and assessment, YOKOHAMA takes a comprehensive multi-faceted approach toward realising advances in macromolecular and other technologies to make materials and products as beneficial as possible.

**Research and Development**

Reliable technology based on world-class research and development is essential for developing and providing YOKOHAMA products that are safe and reliable, while also helping to preserve the environment. At every stage of design, testing and assessment, YOKOHAMA takes a comprehensive multi-faceted approach toward realising advances in macromolecular and other technologies to make materials and products as beneficial as possible.

**Radic**

RADIC (Research and Development Integrated Center) has been at the core of YOKOHAMA’s leading-edge R&D operations since being established in 1991. State-of-the-art instruments such as supercomputers, electron microscopes, ESCA (electron spectroscoopy for chemical analysis) systems and a nuclear magnetic resonance spectrometer are used in pursuing materials development and product design and in conducting simulations under various conditions.

**D-Parc**

D-PARC (Daigo Proving-ground and Research Center) is YOKOHAMA’s comprehensive tyre test course facility that includes a speed oval course, steering and stability track, comfort test track with multiple surfaces made of materials sourced from around the world and handling test track simulating winding road conditions.

**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.

**Truck & Bus Tyres**

Truck and bus tyres have to adapt to all seasons, surfaces and other conditions, as well as provide reliable basic performance. YOKOHAMA supplies a wide range of truck and bus tyres worldwide that meet such requirements and enable cost-effective operation, efficient running, long product life and uncompromising safety under all circumstances.

**Yokohama at a Glance**

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.

**Yokohama’s Concept**

Fleets today need more miles, greater retreadability, longer even-wear and less maintenance costs per kilometre from their tyres. Given the extreme demands of today’s transport industry, continuous innovation in tyre technology is essential. YOKOHAMA’s technologies help you get the most out of your tyre investments.

**YOKOHAMA Product Line-up**

<table>
<thead>
<tr>
<th>Long Distance Transport</th>
<th>P. 8 . 9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steer axle</td>
<td>Drive axle</td>
</tr>
<tr>
<td>107ZL</td>
<td>RY237</td>
</tr>
<tr>
<td>TY517M+S</td>
<td>TY517M+S</td>
</tr>
<tr>
<td>TY253</td>
<td>RY357</td>
</tr>
<tr>
<td>RY588</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Regional Distance Transport</th>
<th>P. 10 . 11</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steer axle</td>
<td>Drive axle</td>
</tr>
<tr>
<td>104ZL</td>
<td>TY303M+S</td>
</tr>
<tr>
<td>RY237</td>
<td>RY253</td>
</tr>
<tr>
<td>RY588</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>On/Off Road Short Distance Transport</th>
<th>P. 12 . 13</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steer axle/All positions</td>
<td>Drive axle</td>
</tr>
<tr>
<td>MY507M+S</td>
<td>MY547M+S</td>
</tr>
<tr>
<td>Y773</td>
<td>LY171M+S</td>
</tr>
<tr>
<td>LY053</td>
<td>MY507A+M+S</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Short Distance, Urban, Local Multistop Transport/Light Truck</th>
<th>P. 14</th>
</tr>
</thead>
<tbody>
<tr>
<td>All positions</td>
<td></td>
</tr>
<tr>
<td>RY537</td>
<td>MY248</td>
</tr>
<tr>
<td>Lt151R</td>
<td></td>
</tr>
</tbody>
</table>

**YOKOHAMA Original Tread Pattern Codes**

RY: Rib (All-Positions/Steer/Trailer)
TY: Traction Block (Drive)
MY: Rib/ Lug (Mixed Service) (All Positions/Steer/Trailer)
LY: Lug (Drive)
107ZL: Rib (Zenvironment Series, Long Distance Steer)
104ZR: Rib (Zenvironment Series, Regional Distance Steer)

**Important Note**

Do not mix different tyre size designations or constructions on the same axle. Always use the tyres for their intended service purpose. Please consult your YOKOHAMA distributor for details as some vehicle operations require specialized tyre fitment.

*Some sizes of this tyre can be used on different axles. Please contact your local YOKOHAMA distributor for details.*
YOKOHAMA's aim is to decrease your cost per kilometer by ensuring increased tread life and even wear without sacrificing other aspects of performance like traction, handling stability, riding comfort, retreadability and fuel economy. These aspects of performance are often trade-offs, but YOKOHAMA's engineers have created the technology to maximize each performance factor, without losing out in any area.

**PRODUCT CONCEPT**

**YOKOHAMA Product Codes**

- **Steer Rib/Lug:** MY507, MY547, Y773, MY507(A)
- **Drive Lug:** LY717, LY053
- **Trailer Rib/Lug:** MY507, MY248

**Product Concept**

- **Surface Abrasion**
  - Unpaved/Off Road
  - Paved Highway
  - Wear Rate

- **Regional Distance Operation**
  - Steer Rib: 104ZR, RY023, TY287, Y768R, Y73JR
  - Drive Traction: TY607, TY303
  - Trailer Rib: RY023T, RY253, RY357, RY588

- **Long Distance Operation**
  - Steer Rib: 107ZL, RY237
  - Drive Traction: TY517(E), TY517
  - Trailer Rib: RY253, RY357, RY588

**Stop & Go, Hilly and Up & Down Road**

**Surface Abrasion**

- **Unpaved/Off Road**
  - Construction Site Operation
    - Steer Rib/Lug: MY507, MY547, Y773
    - Drive Lug: LY717, LY053
    - Trailer Rib/Lug: MY507(A)

- **Paved Highway**

**Urban Operation**

- (City Bus, Rubbish Truck)
  - All Position: RY537, MY248

**Surface Abrasion**

- **Stop & Go, Hilly and Up & Down Road**

**Wear Rate**

**Lower Temperature/Higher Torque Mixing Method**

A new compound mixing method has increased the durability of tyres.

**Performance**

- **Tyre Mileage**
  - Low Temp. High Torque Mixing
  - Traditional Mixing

- **Strong and stretchable rubber**
  - Low Temp. High Torque Mixing
  - Traditional Mixing

**Rubber Structure Model**

- **One Step Mixing & Roll Mixing**
  - The new method performs the kneading of the rubber on rollers after the rubber has been mixed. This process results in lower temperatures. It thus minimizes the splitting of the rubber's long polymer chains and promotes a more even distribution of the carbon black particles, which are used as a reinforcing agent.

- **Multi-Step Mixing**
  - The traditional multi-step mixing process mixes and kneads the rubber simultaneously. The long periods of mixing result in high temperatures, which tend to cause deterioration in the quality of the rubber.

**Carbonn**

- The distribution of carbon particles is more even in rubber produced with the new Lower Temperature/Higher Torque Mixing Method process than in traditionally processed rubber.

- The new Lower Temperature & Higher Torque Mixing Method significantly reduces dioxide obstacles and disperses carbon in rubber evenly.

**INTRODUCING YOKOHAMA TECHNOLOGIES**

A new era in the development of truck and bus tyres.

**YOYOHAMA Product Codes**

- **RY:** Rib (All-Position/Steer/Trailer)
- **TY:** Traction-Block (Drive)
- **LY:** Lug (Drive)
  - RY507: Rib (Environment Series, Long Distance Steer)
  - 104ZR: Rib (Environment Series, Regional Steer)

****YOKOHAMA TREAD PATTERN CODES**

- **RY:** Rib (All-Position/Steer/Trailer)
- **TY:** Traction-Block (Drive)
- **LY:** Lug (Mixed Service)
  - (All-Position/Steer/Trailer)
- **107ZL:** Rib (Environment Series, Long Distance Steer)
- **104ZR:** Rib (Environment Series, Regional Steer)

**Notes:**

- Do not mix different tyre size designations or constructions on the same axle.
- Always use the tyres for their intended service purpose.
- Please consult your YOKOHAMA distributor for details as some vehicle operations require specialized tyre fitment.
YOKOHAMA : MAXIMIZE YOUR PERFORMANCE

Recommendations to ensure the top performance of your YOKOHAMA tyres.

**Tyre Construction**

**Tread**
- Compounds used in the tread depend on the tyre's specific application needs. YOKOHAMA recommends using compounds that provide the best combination of wear resistance, traction, handling, and wet weather performance.

**Belt Edge Cushion**
- YOKOHAMA's belt edge cushion helps to absorb vibration and improve ride quality.

**Inner Liner**
- YOKOHAMA's inner liner is designed to minimize air seepage into the casing to ensure minimum internal pressure loss.

**Bead Filler**
- Two or more different compounds are used to stiffen the bead for steering response and to control the flexibility 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.

<table>
<thead>
<tr>
<th>PROPER INFLATION</th>
<th>UNDER INFLATION</th>
<th>OVER INFLATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>maintains the even road contact for maximised performance.</td>
<td>causes abnormal tyre deflection, which builds up excessive heat, and risk of failure. It also causes excessive wear on both shoulders.</td>
<td>increases the risk of impact breaks and other road hazard damage. It also causes excessive wear in the centre.</td>
</tr>
</tbody>
</table>

Tyre pressures should be checked on cold tyres at least every two weeks, using a calibrated pressure gauge. Tyres with lower profiles must be checked strictly due to their less visible sidewall deflection.

**Tyre Wear Factors**

**INFLATION PRESSURE**

<table>
<thead>
<tr>
<th>Tyre Mileage Index in %</th>
<th>50%</th>
<th>100%</th>
<th>150%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Recommended</td>
<td>100%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-20% lower</td>
<td>80%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>-30% lower</td>
<td>60%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**CARRYING LOAD**

<table>
<thead>
<tr>
<th>Tyre Mileage Index in %</th>
<th>50%</th>
<th>100%</th>
<th>150%</th>
</tr>
</thead>
<tbody>
<tr>
<td>20% underloaded</td>
<td></td>
<td></td>
<td>150%</td>
</tr>
<tr>
<td>normal load</td>
<td></td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>30% overloaded</td>
<td></td>
<td>70%</td>
<td></td>
</tr>
</tbody>
</table>

The tyre wear depends upon load carried. YOKOHAMA recommends maintaining the correct axle and pay loads.

**STOP/GO OPERATION (Braking Abrasion)**

<table>
<thead>
<tr>
<th>Tyre Mileage Index in %</th>
<th>50%</th>
<th>100%</th>
<th>150%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Long haul</td>
<td>100%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Regional</td>
<td>80%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Urban</td>
<td>60%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

**TRAILER AXLES**

<table>
<thead>
<tr>
<th>Tyre Mileage Index in %</th>
<th>50%</th>
<th>100%</th>
<th>150%</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st. axle</td>
<td>60%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd. axle</td>
<td></td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>3rd. axle</td>
<td></td>
<td></td>
<td>30%</td>
</tr>
</tbody>
</table>

Trailer tyre wear is dependent on the sideforce of axles of trailers. YOKOHAMA recommends proper tyre rotation for retreaded tyres also.

**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 107ZL

New highway steer tyre engineered with innovative “Environment” technologies for ordinal highway operations.

- Newly-developed tread compound under “Environment” technology provides longer mileage and better fuel economy.
- The 6-rib tread design is the perfect steer position high performer. Now enhanced with over 6,000 sipes, this premium feature provides excellent water evacuation and uniform wear.

Steer axle RY237

Steer axle tyre engineered with advanced YOKOHAMA’s technologies for long-haul operation.

- The wide tread design with YOKOHAMA’s original SC Groove (Stress-wear Control Groove) is engineered to reduce irregular tread wear and increase mileage.
- YOKOHAMA latest profile & construction improves retreadability to reduce irregular tread wear and increase mileage.

Drive axle TY517(E) M+S

Drive axle tyre designed with YOKOHAMA’s advanced technologies for long-haul operation.

- Wide & deep tread design produces long tread life.
- Alternated tread block design with 4-straight wide grooves increases even wear without sacrificing wet traction.
- Shallow lug grooves at shoulder minimises shoulder heel & toe wear.

Trailer axle RY253

Wide base Long haul/Regional use tyre engineered primarily for the trailer axles.

- 6-rib tread design enhances even wear & wet traction.
- Retreadability from a specially constructed casing.

Trailer axle RY357

Wide base high load/regional use tyre for the trailer axles. The RY357 delivers long mileage & shoulder wear resistance on trailer axle use.

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

Trailer axle RY588

All-purpose trailer tyre for long distance/regional operations. (available: 11R22.5 only)

- 5-rib tread design with straight grooves enhances even wear & wet traction.
- Casing construction provides durability & retreadability for trailer service.

Long Distance Transport

<table>
<thead>
<tr>
<th>SIZE</th>
<th>PATTERN</th>
<th>PR</th>
<th>LS/ES</th>
<th>TUBE</th>
<th>Overall Width (mm)</th>
<th>Overall Diameter (mm)</th>
<th>Loaded Radius (mm)</th>
<th>Measuring Rim (inch)</th>
<th>Approval Rim (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steer axle</td>
<td>107ZL</td>
<td>16</td>
<td>152/164M</td>
<td>TL</td>
<td>363</td>
<td>1051</td>
<td>240</td>
<td>9.00</td>
<td>3.15, 9.00</td>
</tr>
<tr>
<td>11R70R22.5</td>
<td>16</td>
<td>152/164M</td>
<td>TL</td>
<td>363</td>
<td>1051</td>
<td>240</td>
<td>9.00</td>
<td>3.15, 9.00</td>
<td></td>
</tr>
<tr>
<td>11R70R22.5</td>
<td>16</td>
<td>152/164M</td>
<td>TL</td>
<td>363</td>
<td>1051</td>
<td>240</td>
<td>9.00</td>
<td>3.15, 9.00</td>
<td></td>
</tr>
<tr>
<td>11R50R22.5</td>
<td>20</td>
<td>152/164M</td>
<td>TL</td>
<td>363</td>
<td>1051</td>
<td>240</td>
<td>9.00</td>
<td>3.15, 9.00</td>
<td></td>
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<tr>
<td>11R50R22.5</td>
<td>20</td>
<td>152/164M</td>
<td>TL</td>
<td>363</td>
<td>1051</td>
<td>240</td>
<td>9.00</td>
<td>3.15, 9.00</td>
<td></td>
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<tr>
<td>12R28R22.5</td>
<td>16</td>
<td>152/164M</td>
<td>TL</td>
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<td>240</td>
<td>9.00</td>
<td>3.15, 9.00</td>
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<tr>
<td>12R28R22.5</td>
<td>16</td>
<td>152/164M</td>
<td>TL</td>
<td>363</td>
<td>1051</td>
<td>240</td>
<td>9.00</td>
<td>3.15, 9.00</td>
<td></td>
</tr>
<tr>
<td>Drive axle</td>
<td>TY517(E)</td>
<td>16</td>
<td>140/145M</td>
<td>TL</td>
<td>275</td>
<td>1069</td>
<td>901</td>
<td>8.35</td>
<td>3.50, 8.25</td>
</tr>
<tr>
<td>205/80R22.5</td>
<td>16</td>
<td>140/145M</td>
<td>TL</td>
<td>275</td>
<td>1069</td>
<td>901</td>
<td>8.35</td>
<td>3.50, 8.25</td>
<td></td>
</tr>
<tr>
<td>205/80R22.5</td>
<td>16</td>
<td>140/145M</td>
<td>TL</td>
<td>275</td>
<td>1069</td>
<td>901</td>
<td>8.35</td>
<td>3.50, 8.25</td>
<td></td>
</tr>
</tbody>
</table>

*TY517 available also*
**Regional Distance Transport**

**Steer axle**

**104ZR**

Steer axle tyre engineered with innovative "Zenvironment" technologies for regional/highway service.

- The 5-rib tread design with straight grooves enhances even wear & wet traction.
- SC-Sipe (Stress-Wear Control Sipe) design improves abnormal wear on rib edges.
- Newly-designed stone ejectors and wavy grooves minimize stone holding & penetration in ordinal regional operation.
- Newly-developed tread compound under "Zenvironment" technology provides longer mileage and better fuel economy.

This technology is available in major product sizes.

- New casing compounds under "Zenvironment" technologies extend casing life for multi-retread.
- Newly-developed tread compound under "Zenvironment" technology provides longer mileage and better fuel economy.

**Steer/Trailer axles**

**RY023 (RY023T)**

Steer axle tyre for regional/highway service.

(RY023T with higher load index only for trailer use.)

- Wide 5-rib design delivers long mileage & shoulder wear resistance on steer axle use.
- Deep sub-grooves on ribs enhance wet traction.
- Aggressive block tread with lateral lug grooves delivers excellent wet traction.
- The tread compound resists against cutting/chipping & extends mileage.

**Regionals Distance Transport**

<table>
<thead>
<tr>
<th>SIZE</th>
<th>PATTERN PR</th>
<th>LRSS</th>
<th>TUBE</th>
<th>Overall Width (mm)</th>
<th>Overall Diameter (mm)</th>
<th>Load Carrying Capacity (kg)</th>
<th>Inflating Air Pressure (kgf/cm²)</th>
<th>Rim Diameter (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>12R22.5</td>
<td>4 120/118L TL 257 1004 481 9.00 7.50, 8.25</td>
<td></td>
<td></td>
<td></td>
<td></td>
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**Drive axle**

**TY607 M+S**

Drive axle tyre for regional/highway service.

- Extra deep tread design with wide tread produces long mileage for regional/highway service.
- Aggressive tread design provides wet traction throughout all stages of wear for regional/city service.
- The 5-rib tread design becomes a rib pattern suitable for normal regional high way use.

**TY287 M+S**

Multi purpose tyre for regional operations on paved road.

- Good traction on rainy and snowy roads.
- At approximately 60% of tread wear, The tread design becomes a rib pattern suitable for normal regional highway use.

**TY785R**

All purpose tyres including low platform trailer tyre.

- Srb tread design with straight grooves enhances even wear & wet traction.
- Casing construction provides durability & re- treadability for heavy trailer service.

**TY303 M+S**

Drive axle tyre for regional/highway service.

- Aggressive tread design provides wet traction throughout all stages of wear for regional/city service.
- The tread compound resists against cutting/chipping & extends mileage.

**TY253**

For more details see page 9

**TY357**

For more details see page 9

**TY588**

For more details see page 9

**Regional Distance Transport**

<table>
<thead>
<tr>
<th>SIZE</th>
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<th>LRSS</th>
<th>TUBE</th>
<th>Overall Width (mm)</th>
<th>Overall Diameter (mm)</th>
<th>Load Carrying Capacity (kg)</th>
<th>Inflating Air Pressure (kgf/cm²)</th>
<th>Rim Diameter (inch)</th>
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**Y793R**

All-purpose, all-position tyre for normal regional/city service.

- The tread compound resists against cutting/chipping.
**Short Distance, Urban, Local Multistop Transport/Light Truck**

**RY537**
- All position tyre for urban bus operation.
- Extra deep tread with 4-rib design enhances long mileage & low cost per kilometer on severe abrasion operation.
- Sidewall protection minimizes scuff damage & abrasion from curb.

**MY248**
- All-position radial for urban operating trucks and buses.
- Deep tread and shoulder lug produces excellent long life and traction.

**LT151R**
- For Light Truck Tyre
- Strong resistance to wear and long-lasting performance.
- Total balanced performance — wear resistance, durability, wet performance and anti-uneven wear —

### Short Distance, Urban Local Multistop Transport/Light Truck

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<thead>
<tr>
<th>SIZE</th>
<th>PATTERN</th>
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<th>LISS</th>
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### Light Truck

The Prevention of Uneven Wear

**Influence of uneven wear**
- Mileage will be shorter.
- Driving stability deteriorates.
- Fuel cost increases.

**The main causes of degeneration**
- Air pressure is not correct.
- Difference of outside diameter or air pressure of dual tires.
- Incorrect alignment.
- Lack of vehicle maintenance.

**The most crucial factor to avoid uneven wear is maintaining proper air pressure.**

### Typical Patterns of Uneven Wear

**Centre Wear**
- The centre of the tread wearing faster than the shoulders.
  - **Causes:**
    1. Overall inflation.
    2. Improper matching of tires and rims.

**Wavy (Polygonal) Wear**
- Wavy conditions are created on some part of, or on whole circumference, of tread.
  - **Causes:**
    1. Excessive run-out of tire & rim assembly.
    2. Dynamic imbalance of tire & assembly.
    3. Faulty suspensions & rotations such as axle beams, steering & brake shoes.
    4. Improper wheel alignment.
    5. Underinflation and/or overload.

**One-Sided Wear**
- The outer portion of the shoulder rib wears faster than the inner portion.
  - **Causes:**
    1. Toe-in or camber of steer axle influence.
    2. Repeated sharp turns at high speed when cornering.
    3. Road inclination.

**Step Wear**
- The shoulder wearing faster than the centre of the tread.
  - **Causes:**
    1. Toe-in or camber of steer axle influence.
    2. Repeated sharp turns at center section.
    3. Improper air pressure, wheel alignment or mismatch of tires and rims.
    4. Road inclination.

**Heel & Toe Wear**
- One side of blocks and/or lugs on the tread wears faster than the other side circumferentially.
  - **Causes:**
    1. Underinflation and/or overload.
    2. Repeated sharp turns at center section.
    3. Mismatch of tires and rims.

**Shoulder Wear**
- Both shoulders wearing faster than the centre of the tread.
  - **Causes:**
    1. Underinflation and/or overload.
    2. Repeated sharp turns at center section.

**Rib-punching**
- One or two ribs in the center of the tread wearing faster than the other ribs.
  - **Causes:**
    1. Faulty suspension or rotation of bearing and axle beams.
    2. Under-inflation.
    3. Improper wheel alignment.
    4. Difference between outside diameter or air pressure of dual tires.

**Feather Edge Wear**
- The blocks or the ribs tread wearing diagonally faster than the other parts of the tread surface.
  - **Causes:**
    1. Improper wheel alignment (especially faulty toe-in).
    2. Faulty suspension, faulty rotating parts and/or brake parts such as axle beams, steering & brake shoes.
    3. Improper wheel alignment.
    4. Excessive run-out of tire & rim assembly.

**Spot Wear**
- Excessive wear in a part of the tread.
  - **Causes:**
    1. Sudden braking & rapid steering.
    2. Faulty suspension & faulty rotating parts such as axle beams, steering & brake shoes.
    3. Excessive run-out of tire & rim assembly.

### Island Wear
- Some parts of tread wearing less than the other parts, forming islands or coastlines.
  - **Causes:**
    1. Repeated sharp turns in cornering and frequent, rapid changing of lanes at high-speed.
    2. Improper wheel alignment.
    3. Faulty suspensions and faulty rotating parts such as axle beams, steering & brake shoes.

### River Wear
- Edges of the ribs except the outer edge of the shoulder ribs wearing faster than the tread surface, like riversides.
  - **Causes:**
    1. Underinflation and/or overload.
    2. Repeated sharp turns in cornering and frequent, rapid changing of lanes at high-speed.
    3. Faulty rotating parts and/or brake parts such as axle beams.

Availability of products shown in this document may vary from country to country. Please consult your YOKOHAMA distributor for local availability. Some tires carry a second load/ply index marking which indicates supplementary operational possibilities.
### Additional Regrooving Procedures

#### Regional Distance Transport

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<th>INCH SIZE</th>
<th>TYRE SIZE</th>
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#### On/Off Road Short Distance Transport

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#### Short Distance, Urban, Local Multistop Transport

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### Available Sizes

#### Long Distance Transport

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#### Regional Distance Transport

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#### On/Off Road Short Distance Transport

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#### Short Distance, Urban, Local Multistop Transport

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Additional Regrooving Procedures are available in the image.
## LOAD AND INFLATION PRESSURE TABLE

This table shows the load capacity (kg) per axle at tyre pressure (kPa/bar/psi) for normal operation based on ETRTO standard.

Some vehicle operation require specialized inflation pressure.

Please contact your YOKOHAMA distributor for details.

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### NOTE:

Regarding "*" marked sizes tyre, YOKOHAMA can give you "additional service" for some patterns. For the details, please ask your YOKOHAMA distributor.