# Tyre Selection Guide

## Tyre Selection Reference

### Axle position
- **Steer (Front)**
- **Drive**
- **Trailer**

### Type of operation
- **Long Distance Transport**
  - (one way transport distance: more than 300km)
  - 107ZL, RY237, TY517(E), TY517, RY253, RY357, RY588

- **Regional Distance Transport**
  - (one way transport distance: 300km or less)
  - 112R, 104ZR, TY607, TY303, RY023T, RY253, RY357, TY287, Y785R, Y793R

- **On/Off Road Short Distance Transport**
  - MY507, MY547, Y773, LY717, LY053, MY507A

- **Short Distance, Urban, Local Multistop Transport**
  - RY537, MY248, RY537, MY248, RY537, MY248, MY507A

## Important Notes
- 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.
- RY253 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.

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**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.
- Never use wheels of different manufacturers or different sizes.
- 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.

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**Tyre Selection Guide**

2020 by

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Printed in Japan for Asia, Canada, Europe
Delivering top quality YOKOHAMA Tyres to customers everywhere

We at YOKOHAMA celebrated 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.
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.

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 realizing advances in macromolecular and other technologies to make materials and products as beneficial as possible.

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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.

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Product Line-up

Long Distance Transport

Steer axle

107ZL

RY237

Drive axle

TY517(E)M+S

TY517M+S

Trailer axles

RY253

RY357

RY588

Regional Distance Transport

Steer axle

112R

104ZR

RY023

Drive axle

TY067M+S

TY303M+S

Trailer axles

RY023T

RY253

RY357

RY588

On/Off Road Short Distance Transport

Steer axle/All positions

MY507M+S

MY547M+S

Y773

Drive axle

LY717M+S

LY053

Trailer axles

RY357

RY588

Short Distance, Urban, Local Multistop Transport/Light Truck

All positions

Y785R

Y793R

Light Truck

RY537

RY248

LT151R

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)
112R : Rib (Regional Distance Steer/All position)

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.

**YOKOHAMA Product Codes**

**Straight Way**
- Steer Rib: 104ZR, RY023, TY287, Y785R, Y933R
- 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

**Regional Distance Operation**
- Steer Rib: 112R, 104ZR, RY023, TY287, Y785R, Y933R
- Drive Traction: TY607, TY303
- Trailer Rib: RY023, RY253, RY357, RY588

**Construction Site Operation**
- Steer Rib/Lug: MY507, MY547, Y773
- Drive Lug: LY717, LY653
- Trailer Rib/Lug: MY507(A)

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

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

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

**Wear Rate**

****YOKOHAMA ORIGINAL TREAD PATTERN CODES**

- **RY**: Rib (All-Position/Steer/Trailer)
- **TY**: Traction-Block (Drive)
- **MY**: Rib/Lug (Mixed Service) (All-Position/Steer/Trailer)
- **LY**: Lug (Drive)
- **107ZL**: Rib (Zenvironment Series, Long Distance Steer)
- **104ZR**: Rib (Zenvironment Series, Regional Steer)
- **112R**: Rib (Regional Distance Steer/All position)

**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.

**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.

**Traditional Mixing Method**
- **New Lower Temperature & Higher Torque Mixing Method**

**Rubber Structure Model**
- **Dioxide**: Soft and less flexible rubber
- **Carbon Black**: Tough and flexible rubber
- **Strong and stretchable rubber**

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

**Low Temp, High Torque Mixing Method**
- Traditional Mixing
- Tyre Mileage

**Performance**

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

**Strong and stretchable rubber**
- Traditional Mixing
- Low Temp, High Torque Mixing
Tyre Construction

Tread
Compounds used in the tread depend on the tyre's specific application needs. YOKOHAMA has chosen various compounding strategies to intensify treadwear rate, and maximize traction, fuel efficiency, and resistance to fatigue, chipping and scaling.

Belt Edge Cushion
YOKOHAMA tyres feature a belt edge cushion to help prevent separation of the belt edges, and therefore the tread, caused by the shearing effect of the belts.

Inner Liner
YOKOHAMA's inner liner is specially designed to minimize air seepage into adjacent areas of the tyre. The quality of the inner liner is critical to prevent air from penetrating into the casing. YOKOHAMA's special inner liner compound ensures a significantly longer casing life.

Bead Filler
Two or more different compounds are used in YOKOHAMA's bead filler (apex rubber) to stiffen the bead for steering response and to control the flexibility of other parts of the tyre.

Inflation Pressure

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.

Proper Inflation
- Maintains the even road contact for maximised performance.
- Under Inflation
- Causes abnormal tyre deflection, which builds up excessive heat, and risk of failure. It also causes excessive wear on both shoulders.
- Over Inflation
- Increases the risk of impact breaks and other road hazard damage. It also causes excessive wear in the centre.

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.

Tyre Wear Factors

INFLATION PRESSURE

CARRYING LOAD

STOP/GO OPERATION

TRAILER AXLES (without liftup and/or steer axle)

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.

YOKOHAMA: MAXIMIZE YOUR PERFORMANCE

Recommendations to ensure the top performance of your YOKOHAMA tyres.

INFLATION PRESSURE

Tyre Mileage Index in %

Recommended

-20% lower

-30% lower

100%

80%

60%

50%

100%

150%

CARRYING LOAD

Tyre Mileage Index in %

20% underloaded

normal load

30% overloaded

150%

50%

100%

150%

STOP/GO OPERATION

Braking Abrasion

Tyre Mileage Index in %

Long haul

Regional

Urban

1st. axle

2nd. axle

3rd. axle

100%

80%

60%

60%

100%

30%

50%

100%

150%

60%

100%

150%

The proper inflation pressure is essential for maximised performance of all kinds of tyres. YOKOHAMA recommends proper maintenance and utilisation of a calibrated gauge/inflation pressure sticker or TPMS.

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

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.

The Ecology and Fuel Economy

YOKOHAMA tyres are designed to deliver excellent fuel economy with minimized trade-off of other performance aspects such as wet performance & tyre life.

The Ecology and Fuel Economy

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 “ZeroWear” technologiesordinary highway operations.

- Newly developed tread compound under “ZeroWear” technology provides longer mileage and better fuel economy.
- New tread design is the perfect steer position high performer. Now enhanced with over 5,000 sipes, this premium feature provides excellent water evacuation and uniform wear.

- Shallow lug grooves at shoulder minimises shoulder heel & toe wear.
- YOKOHAMA latest profile & construction improves retreadability and durability by extending casing life.
- Alternated tread block design with 4-straight wide grooves increases even wear without long-haul operation.

- Drive axle tyre designed with YOKOHAMA’s advanced technologies for long-haul operation.
- Wide & deep tread design produces long-haul life.
- Alternated tread block with 4-straight wide grooves enhances even wear without sacrificing wet traction.
- Shallow lug grooves at shoulder minimises shoulder heel & toe wear.

- 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 and durability by extending casing life.

- SC Groove to improve the shoulder “Stop-Oven Wear”.

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

- RY237

- TY517(E)M+S

### Trailer axles

**RY253**

Wide base Long haul/Regional use tyre engineered primarily for the trailer axles. RY253 can be used on steer axle to deliver handling performance & shoulder wear resistance.

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

- TY517

**RY357**

Wide base highway/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.

- TY517(E)

**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.

### Patterns and Dimensions

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Size</th>
<th>Rim</th>
<th>Load Index</th>
<th>Casing</th>
<th>Width</th>
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</table>

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Regional Distance Transport

112R

Specially designed for ASEAN market
- Enhanced cut resistance and chipping compared with 104ZR
- Wide tread enhances wear resistance and high grip
- Adopt new pattern considering chipping

Tread & Side Design
Tread Pattern Side Branding

Performance chart
Profile comparison
10% wider than 104ZR

CAP Compound
Featuried performance - Cut resistance
Adopting “High grade carbon” makes it strong for cut & chipping.

Profile
Improved anti cut performance by wider profile with high rigidity ribs.

Steer/All Position
112R

104ZR

Steer axle

Steer axle engineered with innovative “Zenvironment” technologies for regional/highway service.
- The 5-rib tread design with straight grooves enhances even wear & wear-traction.
- SC-SIPE (Stress-Wear Control Sipe) design improves abnormal wear on rib edges.
- Extra deep design with wide tread produces long tread life for regional service.
- Alternated block placement with short blocks enhances wear resistance even wear.

Steer/Trailer axles
RY023 (RY023T)

Steer tyre for regional/highway service. (RY023T with higher load index only for trailer use.)
- Wide s-ribs delivers long mileage & shoulder wear resistance on steer axle use.
- Deep sub-grooves on ribs enhance side traction.

Tread Pattern Side Branding

Drive axle

TY303M+S

Drive axle tyre for regional/highway service.
- Aggressive tread design provides wet traction throughout all stages of wear for region/city service.
- The tread compound resists against cutting/chipping.

Drive axle

TY607M+S

Drive axle tyre for regional operation.
- Extra deep tread design with wide tread produces long tread life for regional service.
- Aggressive block tread with lateral lug grooves delivers excellent wet traction.
- Alternated block placement with short blocks enhances wear even wear.

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

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

**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.

**TY287 M+S**
Multi purpose tyre for regional operations on paved road.
- High traction on rainy and snowy roads.
- At approximately 60% of tread wear, the tread design becomes a rib pattern suitable for normal highway use.

**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.

**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.

**Y785R**
All purpose tyres including low platform trailer tyre.
- 5-rib tread design with straight grooves enhances even wear & wet traction.
- Casing construction provides durability & retreadability for heavy trailer service.

**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.

**Y793R**
All purpose, all-position tyre for normal regional/city service.
- 5-rib tread design with straight grooves enhances even wear & wet traction.
- The tread compound resists against cutting/chipping.

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</tbody>
</table>
On/Off Road Short Distance Transport

### Steer axle/All positions

**MY507 M+S**

All-purpose, all-position tyre for on & off construction-site operation. (Available only tubeless sizes)
- Deeper & wider tread increases the mileage while the solid shoulder ribs resist against shoulder wear.
- 5 or 4 waved grooves produce traction and drainage.
- Stone ejectors & V-shaped grooves decrease stone holding to enhance retreadability.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Size</th>
<th>PSI</th>
<th>Lug</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>Approach Rim (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MY507</td>
<td>11R22.5</td>
<td>18</td>
<td>154/145K TL</td>
<td>317</td>
<td>1133</td>
<td>528</td>
<td>9.75</td>
<td>9.00, 9.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td>255/70R22.5</td>
<td>16</td>
<td>140/137K TL</td>
<td>254</td>
<td>934</td>
<td>436</td>
<td>7.50</td>
<td>6.75, 7.50, 8.25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>275/70R22.5</td>
<td>16</td>
<td>148/145K TL</td>
<td>277</td>
<td>966</td>
<td>450</td>
<td>8.25</td>
<td>7.50, 8.25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>315/80R22.5</td>
<td>16</td>
<td>152/145K TL</td>
<td>299</td>
<td>1061</td>
<td>493</td>
<td>9.00</td>
<td>8.25, 9.00</td>
<td></td>
</tr>
</tbody>
</table>

### Drive axle

**LY717 M+S**

Drive axle tyre for on & off construction-site operation.
- Aggressive 4-block tread design with shoulder lugs provides dependable traction on rough surfaces.
- Deeper & wider tread increases the mileage.
- Specially deep tread design reduces stone holding while newly-developed tread compound resists against cutting/chipping.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Size</th>
<th>PSI</th>
<th>Lug</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>Approach Rim (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LY717</td>
<td>11R22.5</td>
<td>16</td>
<td>154/145K TL</td>
<td>277</td>
<td>1063</td>
<td>497</td>
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<td>7.50, 8.25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12R22.5</td>
<td>16</td>
<td>152/148K TL</td>
<td>296</td>
<td>1094</td>
<td>511</td>
<td>9.00</td>
<td>8.25, 9.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>13R22.5</td>
<td>16</td>
<td>154/150K (156/150G) TL</td>
<td>317</td>
<td>1135</td>
<td>529</td>
<td>9.75</td>
<td>9.00, 9.75</td>
<td></td>
</tr>
<tr>
<td></td>
<td>295/80R22.5</td>
<td>16</td>
<td>152/148K TL</td>
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<td>496</td>
<td>9.00</td>
<td>8.25, 9.00</td>
<td></td>
</tr>
</tbody>
</table>

### Steer axle/All positions

**MY547 M+S**

All-purpose, all-position tyre for on & off construction-site operation. (Available only tube-type sizes)
- Deeper tread provides longer mileage while the shoulder ribs resist against shoulder wear.
- 3 zigzag grooves with shoulder lugs produce traction and enhance smooth wear in local operation.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Size</th>
<th>PSI</th>
<th>Lug</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>Approach Rim (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MY547</td>
<td>10.00R20</td>
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<td>148/145K TT</td>
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<td>7.00, 7.50, 8.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>11R00R20</td>
<td>16</td>
<td>150/146K TT</td>
<td>293</td>
<td>1088</td>
<td>507</td>
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<td>7.50, 8.00, 8.50</td>
<td></td>
</tr>
<tr>
<td></td>
<td>12R00R20</td>
<td>16</td>
<td>154/150K TT</td>
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<td>1129</td>
<td>525</td>
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<td>8.00, 8.50, 9.00</td>
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</tr>
<tr>
<td></td>
<td>12R00R24</td>
<td>16</td>
<td>156/153K TT</td>
<td>312</td>
<td>1222</td>
<td>568</td>
<td>8.50</td>
<td>8.00, 9.00</td>
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</tr>
</tbody>
</table>

### Drive axle

**LY053**

Drive axle tyre for logging and quarrying operations with some short haul highway use possible.
- Engineered to provide dependable traction and durability.
- Specially deep tread depth and cut-resistant tread compound deliver good tyre mileage.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Size</th>
<th>PSI</th>
<th>Lug</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>Approach Rim (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LY053</td>
<td>11R22.5</td>
<td>16</td>
<td>-</td>
<td>TT</td>
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<tr>
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<td>-</td>
<td>TL</td>
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<td>1072</td>
<td>502</td>
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<td>7.50, 8.25</td>
</tr>
</tbody>
</table>

### Steer axle/All positions

**Y773**

All-purpose, all-position tyre for on & off construction-site operation such as dump or logging.
- Wide tread design with shoulder lugs delivers long mileage & traction.
- The tread compound resists against cutting/chipping for extended mileage & retreadability.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Size</th>
<th>PSI</th>
<th>Lug</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>Approach Rim (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y773</td>
<td>9.00R20</td>
<td>14</td>
<td>141/138L</td>
<td>TT</td>
<td>257</td>
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<tr>
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<td>295/80R22.5</td>
<td>16</td>
<td>152/148K TL</td>
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<td>8.25, 9.00</td>
<td></td>
</tr>
<tr>
<td></td>
<td>315/80R22.5</td>
<td>20</td>
<td>156/150K TL</td>
<td>313</td>
<td>1082</td>
<td>501</td>
<td>9.00</td>
<td>9.00, 9.75</td>
<td></td>
</tr>
</tbody>
</table>

### Trailer axle

**MY507A M+S**

Wide base ON & OFF trailer tyre for on & off construction-site operation.
- Wide & deep tread design produces long tread life.
- Aggressive traction tread with transverse sub-grooves enhances traction over rough surfaces.
- Stone ejectors & funnel-shaped grooves decrease stone holding to enhance retreadability.

<table>
<thead>
<tr>
<th>Pattern</th>
<th>Size</th>
<th>PSI</th>
<th>Lug</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>Approach Rim (inch)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MY507A</td>
<td>245/70R19.5</td>
<td>14/141</td>
<td>TT</td>
<td>260</td>
<td>873</td>
<td>405</td>
<td>7.50</td>
<td>7.50, 8.25</td>
<td></td>
</tr>
<tr>
<td></td>
<td>385/65R22.5</td>
<td>18</td>
<td>1600</td>
<td>TL</td>
<td>378</td>
<td>1082</td>
<td>501</td>
<td>11.75</td>
<td>11.75, 12.25</td>
</tr>
<tr>
<td></td>
<td>425/65R22.5</td>
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<td>185K</td>
<td>TL</td>
<td>420</td>
<td>1134</td>
<td>520</td>
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<td>12.25, 13.00, 14.00</td>
</tr>
<tr>
<td></td>
<td>445/65R22.5</td>
<td>20</td>
<td>169K</td>
<td>TL</td>
<td>440</td>
<td>1161</td>
<td>534</td>
<td>13.00</td>
<td>12.00, 14.00</td>
</tr>
</tbody>
</table>

Availability of products shown in this document may vary from country to country. Please consult your YOKOHAMA distributor for local availability. Some tyre carry a second load/speed index marking which indicates supplementary operational possibilities.
Some tyres carry a second load/speed index marking which indicates supplementary operational possibilities.

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

**RY537**

**All positions for Short Distance, Urban, Local Multistop Transport/Light Truck**

- Total balanced performance tyre
- Strong resistance to wear and long-lasting performance
- Sidewall protections minimize scuff damage & abrasion from curb
- Extra deep tread with 4-rib design enhances long mileage & low cost per kilometer on severe abrasion operation

**MY248**

- All-position radial for urban operating trucks and buses
- Deep tread and shoulder lug produce excellent long life and traction

**LT151R**

**For Light Truck Tyre**

- Total balanced performance tyre
- Wear resistance, durability, wet performance and anti-uneven wear

---

**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 tyres.
- Incorrect alignment.
- Lack of vehicle maintenance.

**Typical Patterns of Uneven Wear**

**Centre Wear**

The centre of the tread wearing faster than the shoulders.

- **Causes:**
  1. Over-inflation.
  2. Improper matching of tyres and rims.

**Wave (Polygonal) Wear**

Wavy conditions are created on some part of, or on whole circumference, of tread.

- **Causes:**
  1. Excessive run-out of tyre & rim assembly.
  2. Dynamic imbalance of tyre & assembly.
  3. Faulty suspensions & rotations such as axle beams, bearing & brake shoes.
  4. Improper wheel alignment.
  5. Under-inflation and/or overload.

**One-Sided 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 a high speed when cornering.
  3. Road inclination.

**Step 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. Frequent sharp turns in corner.
  3. Improper air pressure, wheel alignment or mismatch of tyres and rims.
  4. Road inclination.

**Heel & Toe Wear**

One side of blocks and/or lugs on the tread wears faster than other side circumferentially.

- **Direction of Rotation**
  1. Under-inflation and/or overloaded.
  2. Sudden braking or rapid acceleration.

**Shoulder Wear**

Both shoulders wearing faster than the centre of the tread.

- **Causes:**
  1. Under-inflation and/or overloaded.
  2. Repeated sharp turns at high-speed when cornering.
  3. Mismatch of tyres and rims.

**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 bearing.
  2. Under-inflation.
  3. Improper wheel alignment.
  4. Difference between outside diameter or air pressure of dual tyres.

**Feather Edge Wear**

The blocks or the ribs treading in a feather edge pattern.

- **Causes:**
  1. Improper wheel alignment.
  2. Faulty suspension and faulty rotating parts such as axle beams, bearings and brake shoes.
  3. Uniform inflation.
  4. Repeated sharp turns at high-speed when cornering.
  5. Road inclination.

**Spot Wear**

Excessive wear in a part of the tread.

- **Causes:**
  1. Sudden braking & rapid acceleration.
  2. Faulty suspension & faulty rotating parts such as axle beams, bearing & brake shoes.
  3. Over-inflation.

**River Wear**

Edges of the ribs except the outer edge of the shoulder ribs wearing faster than the tread surface, like riverbeds.

- **Causes:**
  1. Under-inflation and/or over-load.
  2. Repeated sharp turns in cornering and frequent, rapid changing of lanes at high-speed.
  3. Improper wheel alignment.
  4. Faulty suspension and faulty rotating parts such as axle beams, bearings and brake shoes.

**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 suspension and faulty rotating parts such as axle beams, bearings and brake shoes.
### Regrooving Procedures

#### Long Distance Transport

<table>
<thead>
<tr>
<th>Tyre Size</th>
<th>Dimension of Regroove</th>
<th>Pattern after 70% worn</th>
<th>Pattern when new</th>
<th>Pattern when 70% worn</th>
<th>Pattern after regrooved</th>
</tr>
</thead>
<tbody>
<tr>
<td>295/80R22.5</td>
<td>2.5 mm 7.0 mm</td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td>315/70R22.5</td>
<td>2.5 mm 7.0 mm</td>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
<td><img src="image7.png" alt="Image" /></td>
<td><img src="image8.png" alt="Image" /></td>
</tr>
</tbody>
</table>

#### Regional Distance Transport

<table>
<thead>
<tr>
<th>Tyre Size</th>
<th>Dimension of Regroove</th>
<th>Pattern after 70% worn</th>
<th>Pattern when new</th>
<th>Pattern when 70% worn</th>
<th>Pattern after regrooved</th>
</tr>
</thead>
<tbody>
<tr>
<td>295/80R22.5</td>
<td>2.5 mm 7.0 mm</td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td>315/70R22.5</td>
<td>2.5 mm 7.0 mm</td>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
<td><img src="image7.png" alt="Image" /></td>
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</tbody>
</table>

#### On/Off Road Short Distance Transport

<table>
<thead>
<tr>
<th>Tyre Size</th>
<th>Dimension of Regroove</th>
<th>Pattern after 70% worn</th>
<th>Pattern when new</th>
<th>Pattern when 70% worn</th>
<th>Pattern after regrooved</th>
</tr>
</thead>
<tbody>
<tr>
<td>295/80R22.5</td>
<td>2.5 mm 7.0 mm</td>
<td><img src="image1.png" alt="Image" /></td>
<td><img src="image2.png" alt="Image" /></td>
<td><img src="image3.png" alt="Image" /></td>
<td><img src="image4.png" alt="Image" /></td>
</tr>
<tr>
<td>315/70R22.5</td>
<td>2.5 mm 7.0 mm</td>
<td><img src="image5.png" alt="Image" /></td>
<td><img src="image6.png" alt="Image" /></td>
<td><img src="image7.png" alt="Image" /></td>
<td><img src="image8.png" alt="Image" /></td>
</tr>
</tbody>
</table>

Regrooved pattern is shown in black. Recut depth listed is maximum value. Recut width listed has ±1 mm tolerance.
### 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.

<table>
<thead>
<tr>
<th>Inch</th>
<th>Size</th>
<th>Dual</th>
<th>Single</th>
<th>5.00</th>
<th>5.50</th>
<th>6.00</th>
<th>6.25</th>
<th>6.50</th>
<th>6.75</th>
<th>7.00</th>
<th>7.25</th>
<th>7.50</th>
<th>7.75</th>
<th>8.00</th>
<th>8.25</th>
<th>8.50</th>
<th>8.75</th>
<th>9.00</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>73</td>
<td>80</td>
<td>87</td>
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<td>109</td>
<td>112</td>
<td>116</td>
<td>120</td>
<td>123</td>
<td>127</td>
<td>131</td>
</tr>
<tr>
<td>17.5</td>
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<td>2,655</td>
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<td>2,615</td>
<td>2,595</td>
<td>2,575</td>
<td>2,555</td>
<td>2,535</td>
<td>2,515</td>
<td>2,495</td>
<td>2,475</td>
<td>2,455</td>
<td>2,435</td>
<td>2,415</td>
<td>2,405</td>
<td></td>
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<tr>
<td></td>
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<td>D</td>
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<td>6,750</td>
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<td>7,200</td>
<td>7,350</td>
<td>7,500</td>
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</tr>
<tr>
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<td>4,570</td>
<td>4,780</td>
<td>5,000</td>
<td>5,210</td>
<td>5,420</td>
<td>5,630</td>
<td>5,840</td>
<td>6,050</td>
<td>6,260</td>
<td>6,470</td>
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<td>8,850</td>
<td>9,050</td>
<td>9,250</td>
<td>9,450</td>
<td>9,650</td>
<td></td>
</tr>
<tr>
<td>245/7R17.5</td>
<td>S</td>
<td>2,600</td>
<td>3,005</td>
<td>3,400</td>
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<tr>
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**NOTE:** Regarding "*" marked sizes tyre, YOKOHAMA may give you "additional service" for some patterns. For details, please contact your YOKOHAMA distributor.