

RALSON

TIRES TREAD NEW PATHS



MEDIUM & HEAVY TRUCK TIRE GUIDE

A WINNING FORMULA FOR THE US TRUCKING INDUSTRY

Global tire manufacturer Ralson has developed one of the world's most advanced medium / heavy truck tire manufacturing facilities, with a current production capacity of more than one million tires per year . . . with expansion plans.

The company is committed to supplying the US market with high-quality TBR tires that deliver a low total cost of ownership for trucking fleets and owner operators.

While the company is new to the US, Ralson has a proven track record in the global tire industry and currently supplies bicycle and automotive tires to more than 70 countries through the committed efforts of its 4,000 employees.

Ralson, India's fastest growing tire company, started its journey in 1974 with the production of bicycle tires. Today, Ralson is one of the top 5 bicycle tire producers worldwide.

Ralson began production of automotive tires in 2000 and is now India's fastest growing automotive tire brand.

Ralson's winning formula has been an unflagging commitment to total quality manufacturing (TQM) practices and customer service that continually exceeds expectations.

SATISFIED CUSTOMERS FOR TIRE DEALERS AND LOWER OPERATING COSTS FOR TRUCKING COMPANIES

Multiple factors help create a thriving commercial tire dealership, but satisfied customers are #1. Repeat customers and positive word-of-mouth are the lifeblood of a successful tire dealer. Dealers who sell Ralson will hear "I want more Ralson" from their customers due to an unbeatable combination of acquisition price and performance.

Tires represent the 2nd largest operating cost for fleets after fuel. Ralson TBR tires will deliver a competitive edge -- outstanding performance and a lower total cost of ownership -- to help fleets succeed in an increasingly tough business environment.



A TECHNOLOGY ADVANTAGE

Ralson has assembled a team of R&D engineers and rubber technologists responsible for some of the industry's most renowned commercial tire tread patterns. They have been armed with the most advanced computer simulation and testing equipment.

Utilizing the ultra-sophisticated computer programs, the R&D team has developed tread patterns and casing designs ideally suited for operating efficiently on America's highways and roads. The prototype Ralson tires are put through exhaustive testing inside labs equipped with Virtual Simulation Capabilities (FEA) and then thoroughly punished on a wide variety of surfaces.

The manufacturing process at Ralson's new, highly advanced plant is the next key ingredient. From best-in-class extrusion equipment to RFID enabled bead preparation, the massive facility is consistently rolling out TBR tires of superior quality.

A thorough final inspection process is the final ingredient. X-ray inspections, stringent endurance testing, uniformity tests, dynamic balancing, and other state-of-the-art propriety tests ensure that fleets and owner operators can depend on Ralson tires for long tread wear, dependable traction and durability.

We tread far and wide globally. Ralson has best-in-class equipment sourced from leading manufacturers based out of The Netherlands, USA, Germany, Italy, Japan, France and many more countries.

NITROGEN CURING VERSUS HOT WATER CURING









The Ralson plant uses a nitrogen cure system instead of the hot water cure system deployed in many tire manufacturing facilities. The nitrogen cure system allows better control of the curing process which leads to greater tire uniformity. This means longer tire life and driver ride comfort for Ralson customers. The nitrogen process also benefits the environment by conserving water.

ENVIRONMENTAL STEWARDSHIP

Environmental protection and sustainability were key objectives when the Ralson plant was designed and constructed.

- **Thousands of tree saplings were planted in and around the premises.**
- **All effluents are recycled.**
- **Rainwater is harvested, making the most out of Indian monsoons and steam; thereby reducing water consumption needs.**
- **A commitment to creating low rolling resistance tires reduces the carbon footprint.**
- **Durable, sturdy casings facilitate more retreading, resulting in less tire carcasses in landfills.**

APPLICATION GUIDE

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 TRACTOR [DAY CAB]	■	■	■			
 BULK TRUCK	■	■	■			
 CLOSED AXLE TRAILER	■			■		
 SPREAD AXLE TRAILER	■			■		
 STRAIGHT TRUCK	■	■	■			
 PICK-UP & DELIVERY TRUCK	■	■	■		■	
 WASTE HAUL						■
 CONSTRUCTION						■
225/70R19.5	14G				14G	
245/70R19.5	16H				16H	
255/70R22.5	16H					
295/75R22.5	16H	16H	16H	16H		
315/80R22.5						20L
11R22.5	16H	16H	16H	16H		
11R24.5	16H	16H	16H	16H		
285/75R24.5	14G	14G		14G		



RMR51



TIRE SIZE	PLY RATING / LOAD RANGE	RIM MEAS. [IN]	OVERALL DIAMETER [IN / MM]	OVERALL WIDTH [IN / MM]	TREAD DEPTH [32NDS / MM]	MAX TIRE LOAD		MAX SPEED [MPH / KPH]
						SINGLE [LBS@PSI / KG@KPA]	DUAL [LBS@PSI / KG@KPA]	
225/70R19.5	14G	6.75	32.0 813	8.9 225	16 13	3970@110 1800@760	3570@110 1700@760	81 130
245/70R19.5	16H	7.50	33.1 840	9.6 245	18 14.5	4938@120 2240@830	4674@120 2120@830	81 130
255/70R22.5	16H	7.50	36.7 932	10.0 255	18 14.3	5510@120 2500@830	5070@120 2300@830	75 120
295/75R22.5	16H	9.00	40.2 1021	11.6 295	20 16	7160@120 3250@830	6610@120 3000@830	75 120
11R22.5	16H	8.25	41.5 1055	11.2 285	20 16	6610@120 3000@830	6005@120 2725@830	81 130
285/75R24.5	14G	8.25	41.7 1060	11.2 285	20 16	6175@110 2800@760	5675@110 2575@760	75 120
11R24.5	16H	8.25	43.5 1105	11.2 285	20 16	7160@120 3250@830	6610@120 3000@830	81 130



- 1 - Integrated Sipes** provide superior all-weather traction and cooler running for extended tread life.
- 2 - Wider Shoulder Rib** effectively handles lateral forces and resists tearing for long tread and casing life.
- 3 - Sinusoidal Shoulder Groove** promotes dependable traction, shoulder stability and low rolling resistance for uniform wear and fuel efficiency.
- 4 - Optimized Groove Angle with Stone Ejector** enhances self-cleaning for long tread life and less downtime.
- 5 - Balanced Rib Ratio** distributes pressure evenly for outstanding wear.



RDR52



TIRE SIZE	PLY RATING / LOAD RANGE	RIM MEAS. [IN]	OVERALL DIAMETER [IN / MM]	OVERALL WIDTH [IN / MM]	TREAD DEPTH [32NDS / MM]	MAX TIRE LOAD		
						SINGLE [LBS@PSI / KG@KPA]	DUAL [LBS@PSI / KG@KPA]	MAX SPEED [MPH / KPH]
295/75R22.5	16H	9.00	40.7 1034	11.6 295	28 22	7160@120 3250@830	6610@120 3000@830	75 120
11R22.5	16H	8.25	42.05 1068	11.2 285	28 22	6610@120 3000@830	6005@120 2725@830	81 130
285/75R24.5	14G	8.25	42.2 1073	11.2 285	28 22	6175@110 2800@760	5675@110 2575@760	75 120
11R24.5	16H	8.25	44.06 1119	11.2 285	28 22	7160@120 3250@830	6610@120 3000@830	81 130



- 1 - 3D Matrix Sipes** improve tread block stiffness for a stable footprint, even wear and long tread life.
- 2 - Stable Closed Shoulder** effectively manages weight and torque for even wear.
- 3 - Integrated Blocks with Tie Bar** enhance block rigidity for dependable traction and uniform wear.
- 4 - Optimized Groove Angle** provides extraordinary self-cleaning action for improved tread and casing life.



RDR55



TIRE SIZE	PLY RATING / LOAD RANGE	RIM MEAS. [IN]	OVERALL DIAMETER [IN / MM]	OVERALL WIDTH [IN / MM]	TREAD DEPTH [32NDS / MM]	MAX TIRE LOAD		
						SINGLE [LBS@PSI / KG@KPA]	DUAL [LBS@PSI / KG@KPA]	MAX SPEED [MPH / KPH]
295/75R22.5	16H	9.00	40.6 1031	11.6 295	26 21	7160@120 3250@830	6610@120 3000@830	75 120
11R22.5	16H	8.25	41.9 1065	11.2 285	26 21	6610@120 3000@830	6005@120 2725@830	81 130
11R24.5	16H	8.25	43.9 1116	11.2 285	26 21	7160@120 3250@830	6610@120 3000@830	81 130



- 1 - Wider Open Shoulder** resists tearing and dissipates heat for improved tread and casing life.
- 2 - Balanced Rib Ratio** enhances driver control and comfort by evenly distributing pressure across the tread.
- 3 - 3D Matrix Sipes** stiffen the tread blocks for even wear, long tread life and superior retreadability.
- 4 - Optimized Groove Angle** provides excellent self-cleaning action for less downtime and longer tread wear.



RTR51



TIRE SIZE	PLY RATING / LOAD RANGE	RIM MEAS. [IN]	OVERALL DIAMETER [IN / MM]	OVERALL WIDTH [IN / MM]	TREAD DEPTH [32NDS / MM]	MAX TIRE LOAD		
						SINGLE [LBS@PSI / KG@KPA]	DUAL [LBS@PSI / KG@KPA]	MAX SPEED [MPH / KPH]
295/75R22.5	16H	9.00	39.69 1008	11.6 295	12 9.5	7160@120 3250@830	6610@120 3000@830	75 120
11R22.5	16H	8.25	41.02 1042	11.2 285	12 9.5	6610@120 3000@830	6005@120 2725@830	81 130
11R24.5	16H	8.25	43.03 1093	11.2 285	12 9.5	7160@120 3250@830	6610@120 3000@830	81 130
285/75R24.5	14G	8.25	41.22 1047	11.2 285	12 9.5	6175@110 2800@760	5675@110 2575@760	75 120



- 1 - Full-depth Multi-dimensional Sipes** counter irregular wear and rib tearing for higher mileage and even wear.
- 2 - Corrugated Cooling Fins** effectively dissipate heat for long casing life.
- 3 - Chamfered Solid Shoulder** counters lateral forces in high scrub applications for even shoulder wear.
- 4 - Balanced Rib Ratio** distributes pressure evenly for long tread life.



RDR65



TIRE SIZE	PLY RATING / LOAD RANGE	RIM MEAS. [IN]	OVERALL DIAMETER [IN / MM]	OVERALL WIDTH [IN / MM]	TREAD DEPTH [32NDS / MM]	MAX TIRE LOAD		MAX SPEED [MPH / KPH]
						SINGLE [LBS@PSI / KG@KPA]	DUAL [LBS@PSI / KG@KPA]	
225/70R19.5	14G	6.75	32.2 818	8.9 225	20 16	3970@110 1800@760	3750@110 1700@760	87 140
245/70R19.5 ¹	16H	7.50	33.1 9843	9.6 245	20 16	4938@120 2240@830	4674@120 2120@830	81 130



¹ 245/70R19.5 tread pattern



- 1 - 3D Matrix Sipes** improve tread block robustness for a stable footprint, even wear, and long tread life.
- 2 - Wider Open Shoulder** effectively handles turning side forces and resists tearing for extended tread life.
- 3 - Optimized Groove Angle with Stone Ejector** enhances self-cleaning for long tread life and less downtime.
- 4 - Balanced Rib Ratio** distributes pressure evenly for excellent handling and driving comfort.
- 5 - Integrated Blocks with Tie Bar** enhance block rigidity for high traction and uniform wear.



RAC55



TIRE SIZE	PLY RATING / LOAD RANGE	RIM MEAS. [IN]	OVERALL DIAMETER [IN / MM]	OVERALL WIDTH [IN / MM]	TREAD DEPTH [32NDS / MM]	MAX TIRE LOAD		MAX SPEED [MPH / KPH]
						SINGLE [LBS@PSI / KG@KPA]	DUAL [LBS@PSI / KG@KPA]	
315/80R22.5	20L	9	42.8 1087	12.4 315	24 19.1	10200@130 4625@900	9090@130 4125@900	68 110



1 - Open Shoulder Pattern with tie bar provides powerful traction and self-cleaning capability.

2 - Optimized Groove Angles with Stone Ejectors deliver less downtime by effectively eliminating stones from tread area.

3 - Balanced Rib Ratio delivers higher mileage by evenly distributing pressure.

4 - Integrated Blocks with Tie Bar and Notches provide uniform wear for longer tread life and low rolling resistance.

TIRE INFLATION AND SAFETY

- A serious injury or even death may result from tire failure due to improper inflation.
- Improper mounting could result in the explosion of the tire/rim assembly.
- Tires should be mounted by trained individuals only.
- The inflation pressure enables a tire to support the load and to control the vehicle. Therefore, proper inflation is critical. With the right amount of inflation pressure, the vehicle and the tires will achieve their optimum performance, in addition to tire safety. This means the tires will wear longer and improve vehicle fuel consumption. Note that some vehicles may have different cold inflation pressures for tires on the front and rear axles. The recommended inflation pressures for tires are typically measured in pounds per square inch (psi) and are based upon the weight placed on the tire.

HOW TO MOUNT A TIRE

- Only specially trained individuals should mount tires.
- Refer to the USTMA (United States Tire Manufacturer's Association) for procedures for de-mounting and mounting medium/heavy truck tires. Understand the procedures and safety warnings before proceeding with de-mounting, mounting and inflating tires.
- Always lubricate both beads and rim flanges with approved rubber lubricant before mounting a tire on a rim.
- Always match rim diameter with tire diameter. Mount tire only on the proper size rim.
- Never inflate a medium/heavy truck tire that is lying on the floor or another flat surface.
- Always use a tire mounting cage with a hold down device.



LIMITED MANUFACTURER'S WARRANTY

What is Covered Under Warranty

No Charge Replacement

Eligible Ralson TBR tires will be repaired or replaced free of charge with an equivalent Ralson TBR tire up to the first 10% of original usable tread depth or within 12 months from date of purchase if the tire is no longer usable. If the tire is without the proof of purchase date, then within 12 months from the date of tire manufacture – whichever occurs first.

Prorated Tire Replacement (*Limited Warranty with respect to Defects in Material, Workmanship or Design*)

If a Ralson TBR tire becomes unserviceable due to a defect in design, workmanship or material after the first 2/32nds of usable tread is worn or more than 12 months have elapsed from date of purchase, whichever comes first, you will be entitled to a prorated percentage allowance applicable to the purchase price of an equivalent new Ralson TBR tire or other equivalent tire brand marketed by Ralson.

Limited Radial Casing Retread Warranty

All Ralson TBR casings will be warranted for workmanship and materials at 100% for the first and second retread up to a period of six years from the purchase date, as verified by proof of purchase or the date of manufacture.

Eligibility Criteria

You are the owner or authorized agent of the owner of new Ralson TBR tires.

Your tires bear Department of Transportation (DOT) prescribed tire identification numbers and are not branded “NA” (non-adjustable).

Your Ralson TBR tires have been used only on the vehicle on which they were originally installed as suggested by vehicle manufacturers and recommendations by Ralson.

What is NOT Covered Under Warranty

Irregular Wear or Damage due to:

- Road hazards, punctures, cuts, snags, impact breaks, etc.
- Mechanical conditions of the vehicle
- Tires with weather cracking which were manufactured six (6) or more years prior to presentation are not covered.
- Accident or vandalism
- Wreck, collision of tire
- Improper inflation, overloading, high speed spin up, misapplication, misuse, negligence, racing, chain damage or improper mounting or de-mounting
- Any tire intentionally altered to change its appearance
- Tire branded or marked “non-adjustable” (NA) or blemished (Blem) or previously adjusted
- Misapplication of tire, use of improper inner tube
- Alteration of the tire or addition of alien material
- Transfer from one vehicle to another
- Loss occurred over time or use, incidental or consequential damages
- Ride disturbance after the first 2/32” of tread wear or due to damaged wheels or any other vehicle condition
- Material added to a tire after leaving a factory producing Ralson tires like tire fillers, sealants or balancing substances. If the added materials are the cause of the tire becoming unusable, the tire will not be adjusted.
- Cost of mounting and balancing service except what is covered under warranty
- TBR tire failed due to faulty retreading or material
- This limited warranty is applicable only in the United States, Canada, Mexico and Central America. Any tire used or equipped on a vehicle registered or operated outside of the United States, Canada, Mexico or Central America is not covered by this warranty.



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