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PARTNER



Off The Road Tyres

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OTR/BROC/JAN 2016

OFF THE ROAD TYRES



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25"	14.00 - 25 15.5 - 25 16.00 - 25 16.00 - 25 16.00 - 25 16.00 R 25 17.5 - 25 17.5 - 25 17.5 - 25 17.5 R 25 17.5 R 25 17.5 R 25 18.00 - 25 18.00 - 25	GRIP MASTER-ND LOADER-XL ROCK-XL ROCK-XL SLICK 431 LXLM31 SLICK 404 TRAC-XL LOADER-XL TRAC XLR11 TRAC XLR51 GRIP MASTER-ND GRIP MASTER-XL	21 31 27 48 53 63 29/49 19 31 59 65 52 22

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CEAT SPECIALTY



COMPANY PROFILE

Founded in 1979, by Shri R.P. Goenka, RPG Enterprises is one of the fastest growing businesses with a turnover touching 20,050 cr. It has a global presence in over 100 countries with an employee strength of over 20,000 across the globe.

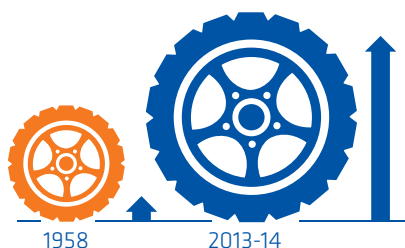
CEAT Limited is one of India's leading tyre manufacturers. Established in 1958, CEAT is a part of RPG Enterprises, which is among the top 5 business houses in India.

CEAT's turnover for the year 2013-14 stands at USD 1 billion. CEAT's export business had a robust performance with turnover of USD 227 million.

With manufacturing facilities directly employing 6000 people across 5 plants (3 in India and 2 in Sri Lanka) CEAT has a wide range of tyres for all user segments. Its range comprises of tyres for commercial segments like Trucks, Buses. Light Commercial Vehicles as well as Passenger Cars, SUVs and Two or Three Wheeler tyres for domestic use - radial & cross ply. In the Specialty segment CEAT manufactures Farm, Mining & Earthmover, Industrial & Construction Equipment tyres and other special application Off the Road tyres.

CEAT Specialty Tyres Ltd. is CEAT's specialised subsidiary for Off Highway (OTR and Agri) Tyres in domestic and international markets, with a product portfolio across bias and radial tyres.

Major commitment to Research and Development enables CEAT to remain at the technical forefront of the tyre industry. The company is also equipped with state-of-the-art research, design and in-house testing facilities, which has helped the company in developing tyres of the highest quality. With close to 60 years of expertise, today CEAT is capable of facing the challenging needs of our customers around the world.





QUALITY SYSTEMS & CERTIFICATIONS

CEAT, an ISO 9001 certified company since 1994, is the first tyre company in India to be certified with the highest and most stringent quality certification ISO/TS 16949 : 2002 (QS 9000) from TUV.

The tyres manufactured by CEAT are DOT, ECE and INMETRO certified .

QUALITY POLICY

We at CEAT are committed to be customer centric by consistently delivering excellent products and services at competitive prices.

It will be our endeavour to continually improve all business processes and ensure conformity to the established quality systems.

We intend to accomplish this through constantly upgrading the skills of our employees.



THE FIRST INDIAN TYRE COMPANY WITH ISO/TS:16949:2002 CERTIFICATION



GENERAL INFORMATION

CEAT off road tyres are designed for mining, road construction, timber hauling, material handling, port applications and other industrial & construction jobs. Before using them for any other application the manufacturer should be consulted. Wrong selection of tyre, improper handling, poor maintenance and improper driving habits can reduce tyre life.

To obtain best results from the tyre correct inflation pressures have to be maintained at all times. It is recommended to check the inflation pressure after long breaks or on weekly basis. If due to heat build up the inflation pressure exceeds additional 1.1bar (16psi) to 1.0bar (14.5psi) the load or driving speed has to be lowered. Load and inflation pressures for the OTR tyres should be determined according to the length of the haul (given in the tables)

MOUNTING & DISMOUNTING

Always practice correct mounting and dismounting procedures taking all safety measures.

DIMENSIONS

All the dimensions and the tolerances in this catalogue are based on nominal T & RA and ETRTO standard



GENERAL INFORMATION

TYRE DESCRIPTION AND SIDEWALL MARKINGS

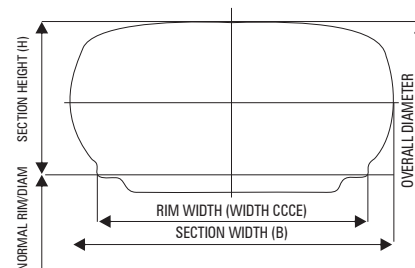
→ Travel direction in case of directional tread design:

⚠ Safety warning

○ Tubeless - Tyres without tube.

↻ Drive wheels

→ Free rolling wheels.



LOAD INDEX & SPEED SYMBOL :

According to ETRTO (The European Tyre and Rim Technical Organisation), as well as to ECE (Economic Commission for Europe-UN Institution Geneva), the maximum load capacity, as well as the maximum speed are indicated by Load Index and Speed symbol.

Load Index	Load Kg	Load Index	Load Kg	Load Index	Load Kg	Load Index	Load Kg	Speed Symbol	Speed Km/h
102	850	129	1850	156	4000	183	8750	A1	5
103	875	130	1900	157	4125	184	9000	A2	10
104	900	131	1950	158	4250	185	9250	A3	15
105	925	132	2000	159	4375	186	9500	A4	20
106	950	133	2060	160	4500	187	9750	A5	25
107	975	134	2120	161	4625	188	10000	A6	30
108	1000	135	2180	162	4750	189	10300	A7	35
109	1030	136	2240	163	4875	190	10600	A8	40
110	1060	137	2300	164	5000	191	10900	B	50
111	1090	138	2360	165	5150	192	11200	C	60
112	1120	139	2430	166	5300	193	11500	D	65
113	1150	140	2500	167	5450	194	11800	E	70
114	1180	141	2575	168	5600	195	12150	F	80
115	1215	142	2650	169	5800	196	12500	G	90
116	1250	143	2725	170	6000	197	12850	J	100
117	1285	144	2800	171	6150	198	13200	K	110
118	1320	145	2900	172	6300	199	13600	L	120
119	1360	146	3000	173	6500	200	14000	M	130
120	1400	147	3075	174	6700	201	14500	N	140
121	1450	148	3150	175	6900	202	15000	P	150
122	1500	149	3250	176	7100	203	15500	Q	160
123	1550	150	3350	177	7300	204	16000	R	170
124	1600	151	3450	178	7500	205	16500	S	180
125	1650	152	3550	179	7750	206	17000		
126	1700	153	3650	180	8000	207	17500		
127	1750	154	3750	181	8250	208	18000		
128	1800	155	3875	182	8500	209	18500		

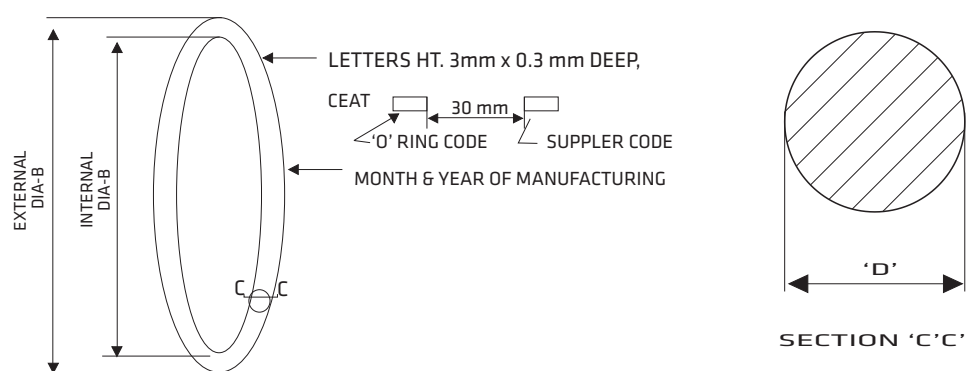
The **LOAD INDEX** is a numerical code associated with the maximum load a tyre can carry at the speed indicated by its speed symbol under service conditions specified by the manufacturer.

The **SPEED SYMBOL** indicates the maximum speed at which the tyre can carry a load corresponding to its Load Index under service conditions specified by the manufacturer.



GENERAL INFORMATION

'O' RING SPECIFICATION



'O' RING CODE	APPLICATION TYRE SIZE (ONLY for TUBELESS Tyres)	'O' RING SPECIFICATION		
		DESIGN INTERNAL DIA-A(+5)MM	DESIGN EXTERNAL DIA-B(+5)MM	DESIGN SECTIONAL DIA-D(+0.3)MM
OR 25 T	14.00 - 25 17.5 - 25 (G2/L2,E3/L3,L5S)	584.2	596.9	6.35
OR 325 T	16.00 - 25 18.00 - 25 21.00 - 25 20.5 - 25 (G2/L2/E3,L3) 23.5 - 25 (E3/L3) 26.5 - 25 (E3/L3)	576.6	595.9	9.65
OR 333 T	18.00 - 33	772.2	791.5	9.65
OR 335 T	21.00 - 35	812.8	832.1	9.65



OFF-THE-ROAD TYRE CODE NOMENCLATURE AND TYPE OF SERVICE

CODE NUMBER TREAD TYPE		TYPE OF SERVICE	*MAXIMUM	
			SPEED (KMPH)	DISTANCE (ONE WAY)
C-COMPACTOR				
C.1	Smooth	Compactor	8	Unlimited
C.2	Grooved	Compactor	8	Unlimited
E-EARTHMOVING				
E.1	Rib Regular	Haulage	64	4 Km
E.2	Traction Regular	Haulage	64	4 Km
E.3	Rock Regular	Haulage	64	4 Km
E.4	Rock Deep Tread	Haulage	64	4 Km
E.7	Floatation	Haulage	64	4 Km
G-GRADER				
G.1	Rib Regular	Grader	40	Unlimited
G.2	Traction Regular	Grader	40	Unlimited
G.3	Rock Regular	Grader	40	Unlimited
G.4	Rock Deep Tread	Grader	40	Unlimited
L-LOADER AND DOZER				
L.2	Traction Regular	Loader, Dozer	8	76 Mtr.
L.3	Rock Regular	Loader, Dozer	8	76 Mtr.
L.4	Rock Deep Tread	Loader, Dozer	8	76 Mtr.
L.5	Rock Extra Deep Tread	Loader, Dozer	8	76 Mtr.
L.3S	Smooth Regular	Loader, Dozer	8	76 Mtr.
L.4S	Smooth Deep Tread	Loader, Dozer	8	76 Mtr.
L.5S	Smooth Extra Deep Tread	Loader, Dozer	8	76 Mtr.

* For Load and Carry Service or other conditions consult tyre manufacturer.



TYRE CARE AND MAINTENANCE GUIDELINES

Use proper inflation pressure. Never under inflate or over inflate the tyres.

- Under inflation causes excessive flexing of the tyre sidewall and increases the internal tyre temperature. It can cause severe tyre damage such as casing break up, radial cracks, separation.
- Over inflation reduces the tyre contact area with the ground. This results in uneven tread wear (tread centre wears faster than shoulder). In soft or loose soil applications, over inflated tyre provides less floatation and traction and wastes engine power. Also over inflation makes the tyre more vulnerable to cuts, snags and impact failures.
- Inflation pressure should be checked after allowing the tyre to cool down to the ambient temperature.
- Never lower the inflation pressure during operation by "bleeding" (letting some air out of the tyre to reduce pressure), since it increases heat build up and can cause premature tyre failure.
- The only way to reduce excessive pressure due to heat build up is to reduce load or speed or both.
- Cover all the valves with cap to prevent penetration of dirt.

DON'T OVERLOAD THE TYRES:

To obtain maximum tyre life, operate within the recommended load inflation pressure schedule. For OTR tyres, load and inflation pressure should be determined according to the length of the haul (given in the tables).

SPEED & LENGTH OF THE HAUL:

CEAT agricultural tyres are designated for A8 speed rating (40 kmph). However the load carrying capacity at various speeds, given in the product catalogue for different product range as a guideline which should be strictly followed by the customers/end users. For any kind of violation from the load, speed and inflation pressure table, consult the tyre manufacturer.

For OTR tyres, load, inflation pressure, speed of the vehicle and the length of haul are very closely related. The load carrying capacity varies with the vehicle operating speed and the length of haul which are mentioned in the product catalogue.

BAD HAUL ROAD:

This is particularly applicable for OTR tyres, since they operate on temporary road which sometimes does not get proper attention and maintenance. The haul road should be kept clean from spillage and any sharp object embedded in the road should be removed. Water accumulation on the haul road should be avoided through proper drainage and a optimum road gradient should be maintained while preparing the road. maintenance of loading and dumping areas are also equally important. Proper maintenance of haul road is essential for longer tyre life.

Proper Driving:

To get the maximum service from the tyre, specially the OTR tyres, it is essential to adopt proper driving habits. Vehicle operators should avoid chuck holes and other obstacles (due to load spillage etc.) which can damage the tyre and refrain from strong spinning, sudden and excessive braking, high speed cornering, locking one wheel for sharp turns etc. All these may harm the tyres and shorten their service life.



TYRE CARE AND MAINTENANCE GUIDELINES

Important parameters for maximum tyre life:

Following are some important parameters needed to be monitored in order to get maximum tyre life :

- Sufficient tyre to vehicle clearance
- Removal of entrapped stones between dual tyres or between tyre and the vehicle or in the grooves of the tyre.
- Proper matching of dual tyres, that is the inflated diameters of both the tyres should match.
- Keep the tyres free from oil, grease etc.
- To keep proper tyre performance record, Check:
 - i) Brand and serial no.
 - ii) New tyre non skid depth
 - iii) Original and subsequent installations and removals by unit number and position
 - iv) Final disposition - scrap, repair, retread, total hours or kilometers of service and date of removal.Thorough and accurate record keeping helps in determination of problem areas causing failures.
- Proper attention to be given for vehicle mechanical irregularities such as misalignment, improperly adjusted brakes or defective brake drums etc. which have damaging effect on tyres.
- Proper checking & maintenance of rims or wheels and valves.
- Proper Storage of tyres. Tyres should be stored in cool and dark places, free from dirt, oil or sunlight and as far as possible from running electric motors (as these generate ozone which deteriorates rubber.)
- Prompt repair of service damaged tyres. There are usually three major types of cuts or damages which occur, particularly in OTR tyres.
 - i) Tread surface cuts - this type of cuts might look minor, but they have a tendency to pick up and hold stones. If the stones are not removed, they can work their way into the carcass resulting in tyre failure.
 - ii) Cuts through the tread - damage from this type of injury may lead to premature tyre failure. When it is determined that the carcass of the tyre has been damaged, the tyre should be removed from service immediately and sent to a qualified repair facility.
 - iii) Sidewall cuts - these are repairable depending on the location and extent of damage.

Ballasting:

To achieve better traction and to enhance performance often the tyres are ballasted. Ballasting can be done in two ways :

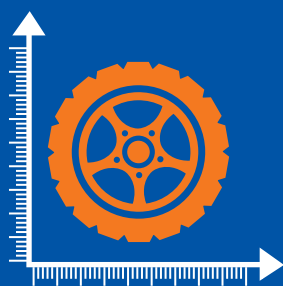
- Inserting substances inside the tyre.
- Attaching counter weights to the back of the vehicle.

Since the second method involves welding or bolting weights to the back of the vehicles, many operator choose tyre ballasting instead. This practice is used to enhance the performance of front-end loaders, motor raders or graders tractors. Ballasting keeps the rear tyres of the front-end loaders grounded.

Ballasting is usually done by filling tyre with water. In cold climatic conditions required amount of anti freezing substances like Calcium Chloride (80%) or Magnesium Chloride (47%) can be added.

However the following points must be taken into consideration while using tyre ballasting practice:

- Before rotating ballasted tyres the ballasting solution (liquid) or material (dry) must be removed and properly disposed off.
- Ballasting solution can facilitate rim rust. Hence, the rim should be well painted or the solution must contain rust prohibitive ingredients.



DEFINITION OF TERMS FOR OFF ROAD TYRES

Service Conditions

1) **Earthmover (Haulage)** - A haulage cycle where equipment self-loads or receives a load from loading equipment, then transports this load to another location and returns unloaded. Transportation usually occurs over unimproved surfaces at speeds up to 65 km/h (40 mph) and short distances, up to 4 km (2.5 miles), one way. Equipment in this category is mainly haulage trucks and scrapers.

2) **Loader** - A work cycle where the equipment is used to pick up material and relocate it a short distance away. Tyre loads fluctuate depending on the conditions involved when the equipment picks up the load. Transportation speeds are low, up to 10 km/h (5 mph), and distances are short, a maximum of 76 m (250 feet), one way.

3) **Load and Carry** - A work cycle where equipment primarily intended for loader service picks up a load and transports this load to another location and returns unloaded. Transportation usually occurs over unimproved surfaces at low speeds, up to 25 km/h (15 mph), and rather short distances, up to 600 m (2,000 feet). Equipment in this category consists mainly of loaders, log stackers and material handling equipment.

4) **Dozer** - A working condition where equipment is used to move materials (usually earth) by pushing, dragging or grading. Tyre loads are relatively constant and speeds are low, up to 10 km/h (5 mph). Travel distances vary depending on work situations.

5) **Grader** - A working condition where equipment is used in construction and road maintenance. Tyre loads are relatively constant during the work cycle. Equipment speeds are slow during working periods with maximum transportation speeds reaching 40 km/h (25 mph). Travel distances vary depending on work situations.

6) **Creep** - Movement of equipment at very slow speed (not over 60 m or 200 feet in 30 minutes). During creep motion, load on the tyres are very high and consideration must be given to the type of surface over which the equipment is traveling.

7) **Drive Away** - This is a term used to define movement of a vehicle from one location to another, under non-working conditions. This movement occurs during transportation of equipment from site to site. LOAD/SPEED/DISTANCE TABLES, are not applicable for drive away condition.

8) **Smooth Floors and Runways** - These are defined as paved or protected operating surfaces which are free of undulations, obstructions or discontinuities.

9) **Maximum Speed** - The peak speed attained by the vehicle during any part of a cycle (loaded or unloaded).

10) **Industrial Vehicle** - Consists of usage on vehicles such as counterbalanced lift trucks, container handlers, straddle carriers, aircraft tow tractors, mobile crushers, log stackers and rough terrain fork lifts.

PRESSURE CONVERSION

Pressure conversion			Pressure conversion			Pressure conversion			Pressure conversion			Pressure conversion			Pressure conversion		
PSI	Kpa	Bar	PSI	Kpa	Bar	PSI	Kpa	Bar	PSI	Kpa	Bar	PSI	Kpa	Bar	PSI	Kpa	Bar
1	6.895	0.07	26	179.270	1.79	51	351.645	3.52	76	524.020	5.24	101	696.395	6.96	126	868.770	8.69
2	13.790	0.14	27	186.165	1.86	52	358.540	3.59	77	530.915	5.31	102	703.290	7.03	127	875.665	8.76
3	20.685	0.21	28	193.060	1.93	53	365.435	3.65	78	537.810	5.38	103	710.185	7.10	128	882.560	8.83
4	27.580	0.28	29	199.955	2.00	54	372.330	3.72	79	544.705	5.45	104	717.080	7.17	129	889.455	8.89
5	34.475	0.34	30	206.850	2.07	55	379.225	3.79	80	551.600	5.52	105	723.975	7.24	130	896.350	8.96
6	41.370	0.41	31	213.745	2.14	56	386.120	3.86	81	558.495	5.58	106	730.870	7.31	131	903.245	9.03
7	48.265	0.48	32	220.640	2.21	57	393.015	3.93	82	565.390	5.65	107	737.765	7.38	132	910.140	9.10
8	55.160	0.55	33	227.535	2.28	58	399.910	4.00	83	572.285	5.72	108	744.660	7.45	133	917.035	9.17
9	62.055	0.62	34	234.430	2.34	59	406.805	4.07	84	579.180	5.79	109	751.555	7.52	134	923.930	9.24
10	68.950	0.69	35	241.325	2.41	60	413.700	4.14	85	586.075	5.86	110	758.450	7.58	135	930.825	9.31
11	75.845	0.76	36	248.220	2.48	61	420.595	4.21	86	592.970	5.93	111	765.345	7.65	136	937.720	9.38
12	82.740	0.83	37	255.115	2.55	62	427.490	4.27	87	599.865	6.00	112	772.240	7.72	137	944.615	9.45
13	89.635	0.90	38	262.010	2.62	63	434.385	4.34	88	606.760	6.07	113	779.135	7.79	138	951.510	9.52
14	96.530	0.97	39	268.905	2.69	64	441.280	4.41	89	613.655	6.14	114	786.030	7.86	139	958.405	9.58
15	103.425	1.03	40	275.800	2.76	65	448.175	4.48	90	620.550	6.21	115	792.925	7.93	140	965.300	9.65
16	110.320	1.10	41	282.695	2.83	66	455.070	4.55	91	627.445	6.27	116	799.820	8.00	141	972.195	9.72
17	117.215	1.17	42	289.590	2.90	67	461.965	4.62	92	634.340	6.34	117	806.715	8.07	142	979.090	9.79
18	124.110	1.24	43	296.485	2.96	68	468.860	4.69	93	641.235	6.41	118	813.610	8.14	143	985.985	9.86
19	131.005	1.31	44	303.380	3.03	69	475.755	4.76	94	648.130	6.48	119	820.505	8.21	144	992.880	9.93
20	137.900	1.38	45	310.275	3.10	70	482.650	4.83	95	655.025	6.55	120	827.400	8.27	145	999.775	10.00
21	144.795	1.45	46	317.170	3.17	71	489.545	4.90	96	661.920	6.62	121	834.295	8.34	146	1006.670	10.07
22	151.690	1.52	47	324.065	3.24	72	496.440	4.96	97	668.815	6.69	122	841.190	8.41	147	1013.565	10.14
23	158.585	1.59	48	330.960	3.31	73	503.335	5.03	98	675.710	6.76	123	848.085	8.48	148	1020.460	10.20
24	165.480	1.65	49	337.855	3.38	74	510.230	5.10	99	682.605	6.83	124	854.980	8.55	149	1027.355	10.27
25	172.375	1.72	50	344.750	3.45	75	517.125	5.17	100	689.500	6.90	125	861.875	8.62	150	1034.250	10.34

EARTHMOVING TYRES IN DRIVE-AWAY SERVICE

Loads and Inflation Pressures

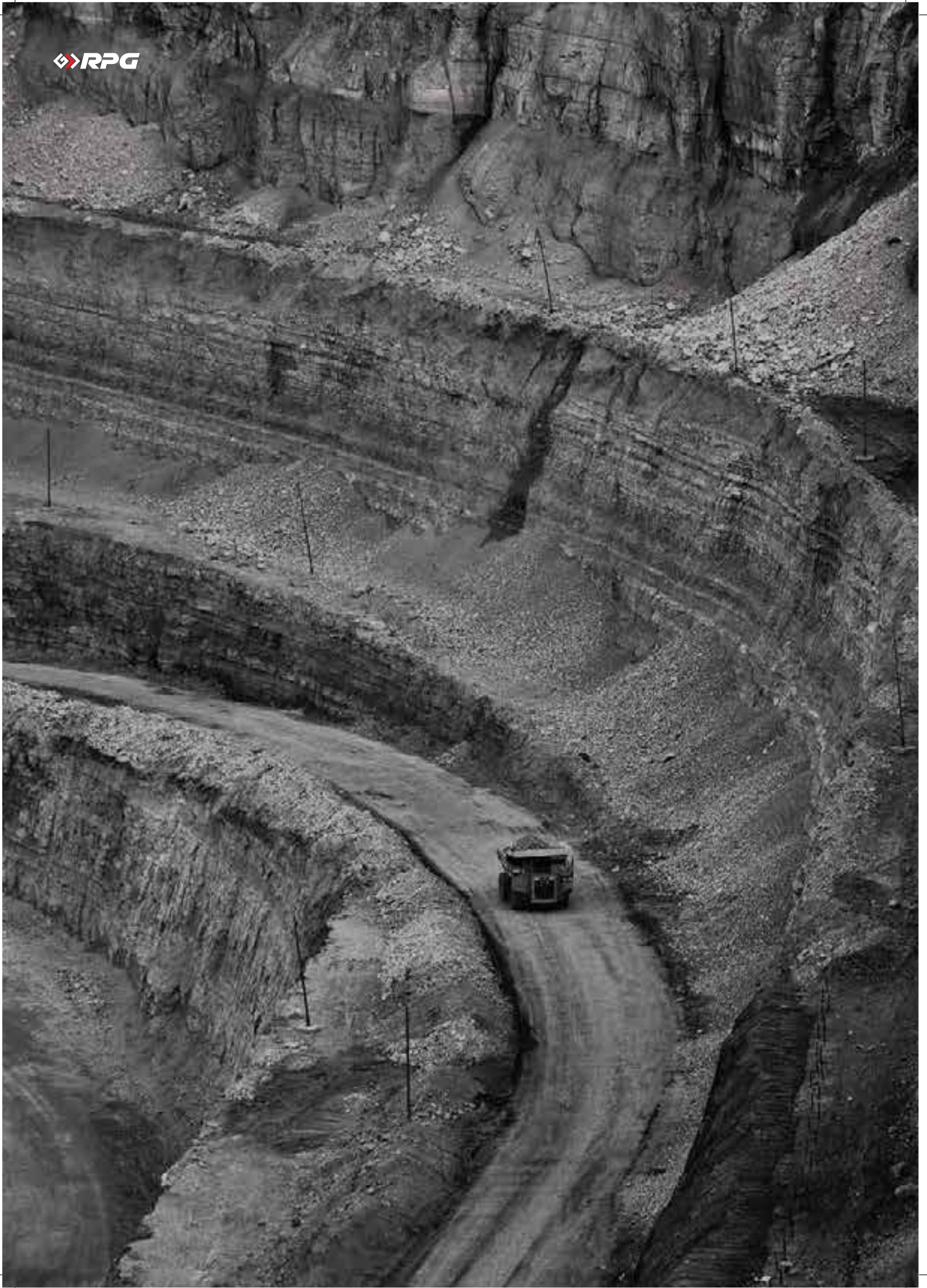
Tyre Size Designation	Tyre loads limits (KGs) at various cold inflation pressure (KPa)															
	170	205	240	275	310	345	380	415	450	485	515	550	585	620	655	690
12.00 - 20	1220	1355	1480	1605	1715	1825	1935	2035	2130	2225	2315	2405	2495	2575	2660	2745
12.00 - 24, 25	1370	1525	1670	1805	1935	2060	2180	2285	2395	2505	2605	2705	2815	2905	2995	3085
13.00 - 24, 25	1590	1760	1935	2085	2230	2375	2515	2640	2770	2905	3015	3130	3245	3360	3450	3560
14.00 - 24, 25	1870	2080	2280	2460	2630	2815	2970	3110	3265	3405	3560	3700	3835	3950	4085	4195
16.00 - 24, 25	2440	2715	2970	3220	3450	3650	3880	4085	4265	4470	4630	4810	4990	5170	5355	5490
18.00 - 24, 25	3155	3515	3855	4150	4445	4720	4990	5265	5535	5760	5990	6215	6445	6670	6895	7125
18.00 - 33	3650	4085	4470	4810	5170	5490	5810	6125	6395	6670	6985	7215	7485	7760	7985	8260
21.00 - 24, 25	4060	4335	4945	5355	5715	6080	6445	6760	7125	7440	7715	8030	8305	8575	8895	9165
21.00 - 35	4810	5355	5855	6350	6805	7215	7670	8030	8440	8800	9165	9530	9845	10210	10525	10845
24.00 - 25	5265	5855	6395	6895	7395	7895	8350	8755	9165	9575	9980	10390	10755	11115	11480	11795
Wide base																
23.5 - 25	3450	4195	4855	5490	6035	6580	7080	7530	8030	8525	9030	9530	10030	10530	11030	11530

Note : This table is also applicable to delivery and site to site transfer service.

UNIT CONVERSION TABLE

ins to mm	ins x 25.4
Inflation lbs/in ² to bars	lbs/in ² x .06895
Load lbs to kgs	lbs x .4536
Revolutions rev/mi to rev/km	rev/mi x .6214
Area ins ² to cm ²	ins ² x 6.452
Weight lbs to kgs	lbs x .4536
Speed mph to kph	mph x 1.609
Tread Depth 32nds/in to mm	32nds x .7938
Performance Capability TMPH to TKPH	TMPH x 1.458
Capacity YD ³ to M3	YD ³ x .76456





CEAT
SPECIALTY



EARTHMOVER



ROCK-XL

T & RA CODE: E4



Features

- Deep tread and robust muscular casing makes this tyre ideal for severe heavy duty applications.
- A specially formulated heat, cut and abrasion resistant compound resists cuts and snags and provides optimum wear in a variety of operating conditions and ensures high hourage even on the most abrasive surfaces.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius	Rolling Circum	PR	Load Capacity			
				SW	OD				Transport (50 kmph)		Loading (10 kmph)	
				mm in	mm in				Max Load kgs/(lbs)	Infl Pressure bar/(psi)	Max Load kgs/(lbs)	Infl Pressure bar/(psi)
24.00 - 35	Tubeless	17	3.5	653 25.7	2175 85.6	998 39.3	6390 251.5	48	18500 40785	6.5 95	31500 69445	8.5 125

All tyres conform to T & RA and ETRTO Standards

All pictures in this book are for illustrative purposes only. Actual product may vary. Specifications are subject to change without prior intimation.



ROCK-XL

T & RA CODE: E4/L4



Features

- Deep tread and sturdy lug design together with a robust heavy duty casing makes this tyre ideal for severe heavy duty applications in mining, quarrying and rock excavation applications.
- Self cleaning sturdy lugs are designed for better traction.
- More rubber in the footprint offers better penetration resistance and better mileage.
- Specially formulated heat and cut resistant compound resists cuts and snags and provides optimum wear in a variety of operating conditions.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius	Rolling Circum	PR	Load Capacity			
				SW	OD				Transport (50 kmph)		Loading (10 kmph)	
				mm in	mm in				Max Load kgs/(lbs)	Infl Pressure bar/(psi)	Max Load kgs/(lbs)	Infl Pressure bar/(psi)
18.00 - 25	Tubeless	13.00	2.5	498 19.6	1673 65.9	764 30.1	4952 195.0	40	9750 21500	7.0 102	17000 37480	9.5 138
18.00 - 33	Tubeless	13.00	2.5	498 19.6	1877 73.9	866 34.1	5556 218.7	40	11200 24690	7.0 102	19500 42990	9.5 138
21.00 - 35	Tubeless	15.00	3.0	595 23.4	2052 80.8	953 37.5	6125 241	40	14000 30865	6.25 91	24300 53570	8.25 120

All tyres conform to T & RA and ETRTO Standards



TRAC-XL

T & RA CODE: E3/L3

Features

- Massive heavy duty tyre for dumpers, loaders and dozers for applications on rock, coal and log strewn terrain.
- Specially designed non directional tread and wide ground contact area provides excellent grip, traction, and high mileage even on the most severe terrain.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Load Capacity			
				SW	OD				Transport (50 kmph)		Loading (10 kmph)	
				mm in	mm in				Max Load Capacity kgs/(lbs)	Infl. Pressure bar/(psi)	Max Load Capacity kgs/(lbs)	Infl. Pressure bar/(psi)
14.00 - 20	Tube type	10	2.0	382 15.5	1256 49.9	583 23.0	3750 147.6	22	4365 9625	5.5 80	8230 18145	8.5 125
17.5 - 25	Tube type/ Tubeless	14	1.5	445 17.5	1348 53.08	624 24.6	3990 157.1	16	4250 9350	3 44	7300 16100	4.75 69
								20	5000 11000	4 58	8250 18200	5.75 83
20.5 - 25	Tube type/ Tubeless	17	2	521 20.5	1493 58.8	686 27.0	4416 173.8	16	5450 12000	2.75 40	8250 18200	3.5 51
								20	6000 13200	3.25 47	9500 20900	4.5 4.5
23.5 - 25	Tube type/ Tubeless	19.5	2.5	597 23.5	1617 63.7	740 29.1	4786 188.4	16	6150 13600	2.25 33	9500 20900	3 44
								20	7300 16100	3 44	10900 24000	3.75 54
26.5 - 25	Tubeless	22	3.0	677 26.7	1750 68.9	798 31.4	5125 201.8	28	10000 22000	3.5 51	15500 34170	4.75 69
29.5 - 25	Under Development											

All tyres conform to T & RA and ETRTO Standards

Note : PLY RATING other than mentioned can be produced for special requirements.



ROCK-XL

Features

- These are mining and logging tyres which can also be used in intermittent highway service.
- The pattern is designed to carry heavy loads on all types of surfaces such as rock, mud or highways.
- Special tread designs provide good traction and high mileage, whereas cap base construction coupled with a strong nylon casing ensure cooler running and long life.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius			Rolling Circum mm in	PR	Load Capacity for Industrial applications		
				SW	OD	(on hard improved surfaces)							
				mm in	mm in	mm in	mm in	mm in			Load/Speed Index	Infl. Pressure bar/(psi)	Load Capacity kgs/(lbs)
11.00 - 20	Tube type	8	3.5	293	1106	519	3273	18	146G	7.6	3000		
				11.5	43.5	20.4	128.9					110	6900
12.00 - 24	Tube type	8.5	3.5	328	1257	590	3720	20	155F	7.9	3875		
				12.9	49.5	23.2	146.5					115	8540

All tyres conform to standards manual of Indian Tyre Technical Advisory Committee (ITTAC) & T & RA

Notes: 1) These tyres are not intended for sustained highway service 2) Distance must not exceed 90 km in any 1^{1/2} hour period of run.



GRIP MASTER-ND

T & RA CODE: E3/L3

Features

- Designed for heavy duty jobs to support heavy loads and extreme working conditions.
- Specially designed non directional tread ensures high hourage even on the most abrasive surfaces.
- Special heat, cut and weather resistant compound makes it capable of withstanding cuts, nags and bruises.
- A heavy duty nylon casing increases strength and durability and promotes multiple retreads.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Load Capacity				
				SW	OD				Transport (50 kmph)		Loading (10 kmph)		
				mm in	mm in				Max Load kgs/(lbs)	Infl. Pressure bar/(psi)	Max Load kgs/(lbs)	Infl. Pressure bar/(psi)	
14.00 - 24	Tube type/ Tubeless	10.00	1.5	385 15.2	1368 53.9	630 24.8	4050 159.4	20	4625	4.75	8500	7.0	
									10200	69	18740	102	
									24	5150	5.75	9500	8.5
14.00 - 25	Tube type/ Tubeless	10.00	1.5	385 15.2	1368 53.9	630 24.8	4050 159.4	24	11400	83	20945	123	
									28	5600	6.50	10000	9.25
									12345	94	22045	134	

All tyres conform to T & RA and ETRTO Standards

Note : PLY RATING other than mentioned can be produced for special requirements



GRIP MASTER-XL

T & RA CODE: E4/L4



Features

- Extra deep tread and robust muscular casing makes this tyre ideal for severe heavy duty applications in mining, quarrying and rock excavations.
- Specially formulated heat and cut resistant compound resists cuts and snags and provides optimum wear in a variety of operating conditions.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius	Rolling Circum	PR	Load Capacity			
				SW	OD				Transport (50 kmph)		Loading (10 kmph)	
				mm in	mm in				Max Load kgs/(lbs)	Infl. Pressure bar/(psi)	Max Load kgs/(lbs)	Infl. Pressure bar/(psi)
18.00 - 25	Tubeless	13.00	2.5	498	1673	764	4952	32	8750	5.75	15000	7.5
				19.6	65.9	30.1	195.0		9750	7.0	17000	9.5
								40	21500	102	37480	138

All tyres conform to T & RA and ETRTO Standards

Note : PLY RATING other than mentioned can be produced for special requirements



MPT 800

Features

- A tough wide base tyre provides traction as well as high floatation.
- Superior compound and tough casing makes it ideal for rugged service.

Size	Type	Rim Width in	Unloaded Dimension		Loaded Static Radius	Rolling Circum	PR	Infl. Pressure bar/(psi)	Load Carrying Capacity		
			SW	OD					Load Index & Speed symbol	Max Speed kmph/(mph)	Max Load kg/(lbs)
			mm in	mm in							
405/70-20 (16.0/70-20)	Tubeless	13.0	405 15.9	1098 43.2	505 19.8	3225 126.9	14	3.5 51	149 B	50 31	3250 7165
405/70-24 (16.0/70-24)	Tubeless	13.0	405 15.9	1188 46.7	551 21.9	3490 137.4	14	4.0 58	152 B	50 31	3550 7285

All tyres conform to T & RA and ETRTO Standards



BHL

T & RA CODE: IND-3

Features

- Specially designed pattern for On/Off road performance.
- Strong nylon casing.
- Cut resistant tread compound.
- Longer tyre life, improved cut/chip resistance.

Size	Type	Rim Width in	Unloaded Dimension					PR	Load Capacity	
			SW	OD	Static Loaded Radius	Rolling Circum	Inflation Pressure		Load Capacity	
			mm in	mm in	mm in	mm in	bar/(psi)		kgs/(lbs)	
9.00 - 16	Tube type	6.50H x16	263 10.4	925 36.4	426 16.8	2683 105.6	16	7.25 105	2290 5038	



TYROCK

Features

- Tread pattern design for very good traction and self cleaning properties.
- Specially designed for front wheel of Backhoe Loaders and Wheel Loaders etc.
- Suitable for both free rolling and drive wheel applications.
- Drive wheel tyres with extra wide lugs gives excellent resistance to tearing and cracking.
- A tough nylon casing and a special tread compound gives best result in industrial use as well as off-the-road and construction sites.
- Tread pattern design for very good traction and self cleaning properties.

Size	Type	Rim Width in	Unloaded Dimension					PR	Inflation Pressure bar/(psi)	Load Capacity			
			SW	OD	Static Loaded Radius	Rolling Circum	Free Rolling Wheel			Drive Wheel			
			mm in	mm in	mm in	mm in	Load Index Speed Symbol			Load Capacity kg/(lbs)	Load Index Speed Symbol	Load Capacity kg/(lbs)	
12.5/80 - 18	Tubeless	9.0	308 38.9	988 12.1	465 18.3	2900 114.1	12	3.7 51	138 A8	2360 5200	125 A8	1650 3635	

All tyres conform to ETRTO Standards



GRADER-XL

T & RA CODE: G2/L2

Features

- Sturdy, robust tyre for the drive wheel of OTR equipment.
- Superior tread and sidewall compound with weather and ozone resistance.
- Strong nylon casing ensures smooth and trouble free service in the most severe operating conditions.
- Ideal for use in motor graders and loaders.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Loaded Static Radius	Rolling Circum	PR	Load Capacity			
				SW	OD				GRADER SERVICE		LOADER SERVICE	
				mm in	mm in				40kmph/(25mph)		10kmph/(5mph)	
				mm in	mm in				Max Load kgs/(lbs)	Infl Pressure bar/(psi)	Max Load kgs/(lbs)	Infl Pressure bar/(psi)
13.00 - 24	Tube type/ Tubeless	8.00	1.4	333	1278	582	3783	12	2725	3.0	5600	4.5
				13.1	50.3	22.9	148.9		6000	44.0	12350	65
14.00 - 24	Tube type/ Tubeless	8.00	1.4	362	1348	614	3990	12	3075	2.5	6300	4.25
				14.3	53.1	24.2	157.1		6800	36.0	13890	62
17.5 - 25	Tube type/ Tubeless	14.00	1.5	445	1348	614	3990	12	2900	2.0	6150	3.5
				17.5	53.1	24.2	157.1		6400	29.0	13600	51.0
								16	3350	3	7300	4.75
									7400	40	16100	69

All tyres conform to T & RA and ETRTO Standards



ROCK-XL

T & RA CODE: E3/L3



Features

- Mining and logging tyre is also useful for intermittent highway service.
- Pattern designed to carry heavy loads on all types of surfaces such as rock, mud and highways.
- Special tread design provides good traction and high mileage.
- Cap based construction coupled with strong nylon casing ensures cooler running and long life.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius	Rolling Circum	PR	Load Carrying			
				SW	OD				Transport (50 kmph)		Loading (10 kmph)	
				mm in	mm in				Max Load kgs/(lbs)	Infl Pressure bar/(psi)	Max Load kgs/(lbs)	Infl Pressure bar/(psi)
16.00 - 25	Tubeless	11.25	2.0	432 17.0	1493 58.8	686 27.0	4420 174.0	32	7300 16090	6.5 94	12500 27560	8.75 127

All tyres conform to T & RA and ETRTO Standards

Note : PLY RATING other than mentioned can be produced for special requirements



SLICK 413

Features

- Special design for underground mines, Slick 413 is capable of carrying load under the most severe operating conditions.
- Specially formulated deep tread with reinforced sidewalls offer superior resistance to wear and damage, ensuring high mileage.
- Flatter tread with large tread width provides high ground contact area for good traction.

Size	Type	Rim Width in	Unloaded Dimension		PR/Load Speed Symbol	Load Capacity for Industrial applications (on hard improved surfaces)			
			SW	OD		Infl Pressure bar/(psi)	15 kmph	10 kmph	Static
			mm in	mm in			Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load kgs/(lbs)
7.00 - 12	Tubeless	5.00K	192 7.6	683 26.9	12PR 133A5	8.5 125	2060 4540	2680 5910	3110 6855
9.00 - 20	Tubeless	7.00	259 10.2	1033 40.9	16	7.25 105	3170 6990	3965 8740	6340 13980

All tyres conform to ITTAC, T & RA and ETRTO Standards



SLICK 404

T & RA CODE: LS5

Features

- Specially designed for underground mines, heavy duty forklifts and loaders.
- Extra deep tread with specially formulated compound and reinforced sidewalls offer superior resistance to wear and damage, ensuring high mileage.
- Flatter tread with large tread width provides high ground contact area for good traction.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Infl. Pressure bar/(psi)	Load Carrying Capacity		
				SW	OD					10 kmph	15 kmph	25 kmph
				mm in	mm in					Max Load kgs/(lbs)	Max Load kgs/(lbs)	Max Load kgs/(lbs)
12.00 - 20	Tubetype	8.50	-	315 12.4	1163 45.8	538 21.2	3433 135.2	20	7.75 112	6000 13230	5220 11510	4800 10580
12.00 - 24	Tubetype	8.5	-	310 12.2	1270 50	592 23.3	3759 148	20	8.25 120	6900 15210	6000 13230	5520 12170
17.5 - 25	Tubetype/ Tubeless	14	1.5	445 17.5	1399 55.08	648 25.51	4141 163.03	20	5.75 83	8250 18200	7180 15830	6600 14550
18.00 - 25	Tubetype/ Tubeless	13.00	2.5	498 19.6	1673 65.9	768 30.2	4952 195.0	32	7.5 109	15000 33100	13050 28770	12000 26455
								40	9.5 138	17000 37480	14790 30605	13600 29980

All tyres conform to T & RA and ETRTO Standards
 Note : PLY RATING other than mentioned can be produced for special requirements.



CT SUPER

Features

- These are mining and logging tyres which can also be used in intermittent highway service.
- Tread pattern are designed to carry heavy loads on all types of surfaces such as rock, mud or on highways.
- Special tread designs provide good traction and high mileage, whereas cap base construction coupled with a strong nylon casing ensure cooler running and long life.

Size	Type	Rim Width in	Unloaded Dimension					PR	Load Capacity	
			SW	OD	Loaded Static Radius	Rolling Circum	Inflation Pressure		Load Capacity	
			mm in	mm in	mm in	mm in	bar/(psi)		kg/(lbs)	
9.00 - 20	Tubeless	7.0	265 10.4	1045 41.1	497 19.5	3170 124.8	16	7.25 105	2325 5125	



LOADER-XL

T & RA CODE: G2/L2

Features

- Suitable on and off the road.
- Utility for crane, fire and rescue vehicles.
- High speed capability.
- Excellent traction and handling response with strong casing.
- A tough wide base tyre provides traction as well as high floatation.
- Superior compound and tough casing makes it ideal for rugged service.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Loaded Static Radius	Rolling Circum	PR	Load Capacity			
				SW	OD				GRADER SERVICE		LOADER SERVICE	
				mm in	mm in				40kmph/(25mph)		10kmph/(5mph)	
				mm in	mm in				Max Load kgs/(lbs)	Infl Pressure bar/(psi)	Max Load kgs/(lbs)	Infl Pressure bar/(psi)
15.5 - 25	Tube type/ Tubeless	12.00	1.3	394	1278	594	3780	12	2650	2.5	5600	4.0
				15.5	50.3	23.4	148.8		5840	36.0	12345	58.0
17.5 - 25	Tube type/ Tubeless	14.00	1.5	445	1348	614	3990	12	2900	2.0	6150	3.5
				17.5	53.1	24.2	157.1		6400	29.0	13600	51.0
20.5 - 25	Tube type/ Tubeless	17.00	2.0	520	1492	686	4416	12	3550	1.75	6700	2.5
				20.5	58.7	27.0	173.8		7850	25	14800	36
								16	4000	2.25	8250	3.50
									8800	33	18200	51

All tyres conform to T & RA and ETRTO Standards

GRADER SERVICE: Distance - Unlimited (Speed: 40 kmph/25 mph)

LOADER SERVICE: Distance - 76m/250 ft (Speed: 10kmph/5mph)

DOZER SERVICE: May vary depending on work situations (Speed: 10 kmph/5 mph)

Note: PLY RATING other than mentioned can be produced for special requirements.



TRAC-XL

Features

- These are mining and logging tyres which can also be used in intermittent highway service.
- The patterns are designed to carry heavy loads on all types of surfaces such as rock, mud or highways.
- Special tread designs provide good traction and high mileage, whereas cap base construction coupled with a strong nylon casing ensure cooler running and long life.

Size	Type	Rim Width in	Unloaded Dimension		Static Loaded Radius	Rolling Circum	PR	Load / Speed Index	Load Capacity	
			mm in	mm in					Max Load Capacity kgs/(lbs)	Infl Pressure bar/(psi)
10.00 - 20	Tube type	7.75	277 10.9	1065 41.7	500 19.7	3152 124.1	18	144 G	2800 8760	7.25 105
11.00 - 20	Tube type	8.00	295 11.6	1110 43.7	521 20.5	3385 129.8	18	146 G	3000 6900	7.6 110
12.00 - 24	Tube type	8.5	315 12.4	1247 49.1	580 23.0	3740 147.2	20	155 F	3875 8540	7.9 115

All tyres conform to standards manual of Indian Tyre Technical Advisory Committee (ITTAC) & T & RA

Notes: 1) These tyres are not intended for sustained highway service

2) Distance must not exceed 90 km in any 1^{1/2} hour period of run.



TRAC-XL

Features

- Higher NSD & continuous lug bars.
- Optimized lug geometry to ensure uniform wear.
- Continuous tie bars to reduce lug flexing & high life.
- Higher UT- Means resistance to puncture.

Size	Type	Rim Width in	Unloaded Dimension		Static Loaded Radius	Rolling Circum	PR	Load carrying capacity			
			SW	OD				10 kmph (Loading)	50 kmph (Transport)		
			mm in	mm in				Infl Pressure bar/(psi)	Max Load kgs/(lbs)	Infl Pressure bar/(psi)	Max Load kgs/(lbs)
405/70-20	Tubeless	13.00	400 15.7	1088 42.8	480 18.9	3290 129.5	16	5.15 74	5735 12615	5 58	3515 7730

All tyres conform to T & RA and ETRTO Standards



GRIP MASTER

Features

- Suitable for port application, but can be used for intermittent highway services.
- Special tread design provides good traction & high mileage, superior resistance to wear and a tough nylon casing ensures trouble free long life.
- Compound formulated for heat, cut & resistance.

Size	Type	Unloaded Dimension					PR	Infl. Pressure bar/(psi)	Max Load kgs/(lbs)
		Rim Width in	SW	OD	Loaded Static Radius	Rolling Circum			
		mm	in	mm	in	mm			
12.00 - 20	Tube type	8.5	320 12.6	1150 45.3	542 21.3	3450 135.8	18	7.2 110	3350 7385

All tyres conform to T & RA and ETRTO Standards



CONSTRUCTION





GRIP MASTER LOADER H.D.



Features

- Premium tyre with increased tread depth, extra thick sidewall for improved traction and puncture resistance.
- Tough nylon casing for durability.
- Specially designed rim guard. Provides greater protection of rim flange area.

Size	Type	Rim Width in	Unloaded Dimension		Loaded Static Radius mm in	Rolling Circum mm in	PR	Infl. press bar/(psi)	Load Carrying capacity, kg(lbs)			
			SW	OD					Recommended load, kg(lbs)			
			mm in	mm in					Speed, km/h(mph)			
									Static	10 5	15 10	30 20
10 - 16.5 HD	Tubeless	8.25	264 10.4	773 30.4	358 14.1	2320 91.3	10	5.2 75	3375 7440	2135 4705	1685 3715	1450 3195
12 - 16.5 HD	Tubeless	9.75	307 12.1	831 32.73	383 15.1	2490 98.0	10	5.5 80	4525 9975	2865 6315	2260 4980	1950 4300

All tyres conform to ETRTO Standards



C 305

T & RA CODE: R3

Features

- Specially designed multipurpose drive wheel tyre provides high floatation on soft soil.
- Ideal for on the road, industrial and road construction equipment.
- Strong nylon casing, rugged design, high tread depth ensures long service life in a variety of operating conditions.

Size	Type	Rim Width in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR Load Index Speed Symbol	Infl. Pressure bar/(psi)	Load Carrying Capacity, kg (lbs) Speed, km/h (mph)						Field operation			
			SW mm in	OD mm in					Not high and sustained torque Road transport					Low Torque		High Torque		
									10 6	20 12	30 19	40 25	50 31	10 6	20 12	10 6		
23.1 - 26	Tubeless	DW20	587 23.1	1560 61.4	690 27.2	4545 178.9	8 PR 145A8	1.1	6670	4350	3570	3100	2900	2640	4060	3480	3100	
								16	14970	9580	7860	6830	6390	5810	8940	7670	6830	
								1.2	6830	4460	3650	3180	2970	2700	4160	3560	3180	
								17	15040	9820	8040	7000	6540	5950	9160	7840	7000	
								10PR 149A8	1.3	7150	4670	3830	3330	3110	2830	4350	3730	3330
								19	15750	10290	8440	7330	6850	6230	9580	8220	7330	
								1.4	7480	4880	4000	3480	3250	2960	4550	3900	3480	
								20	16480	10750	8810	7670	7160	6520	10020	8590	7670	
								12PR 153A8	1.5	7800	5090	4170	3630	3390	3080	4750	4070	3630
								22	17180	11210	9190	8000	7470	6780	10460	8960	8000	
								1.7	8400	5480	4490	3910	3650	3320	5110	4380	3910	
								25	18500	12070	9890	8610	8040	7310	11260	9650	8610	
16PR 159A8	1.9	8990	5870	4810	4180	3910	3560	5470	4690	4180								
28	19800	12930	10590	9210	8610	7840	12050	10330	9210									
2.1	9550	6230	5100	4440	4150	3780	5810	4980	4440									
30	21040	13720	11230	9780	9140	8330	12800	10970	9780									
2.3	10060	6560	5380	4680	4375	3980	6130	5250	4680									
33	22160	14450	11850	10310	9640	8770	13500	11560	10310									

All tyres conform to ETRTO Standards



TYROCK-XL

T & RA CODE: R4

Features

- Tread pattern design for very good traction and self cleaning properties.
- Specially designed for front wheel of backhoe loaders and wheel loaders etc.
- Suitable for both free rolling and drive wheel applications.

Size	Type	Rim Width in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR load Index Speed Symbol	Load Carrying capacity, kg(lbs) Speed km/h(mph)							
			SW	OD				Industrial Use				Agricultural Use			
			mm in	mm in				Constant Load		Cyclic Application		Infl. Pressure		Road Transport	
			mm in	mm in				20 12	40 25	20 12	40 25	bar/(psi)		20 12	40 25
16.9 - 28	Tube type/ Tubeless	W15L	440	1430	650	4233	12PR	2.3	3600	3300	4060	3300	2.1	3380	2520
			33	7930	7270	8940	7270	30	7440	5550					
		W14L	17.3	55.6	25.6	166.7	152A8	2.4	3700	3390	4170	3390	2.2	3470	2590
			35	8150	7470	9190	7470	32	7640	5700					
			2.6	3870	3550	4370	3550	2.4	3650	2725					
38	8520	7820	9630	7820	35	8040	6000								
19.5L - 24*	Tubeless	W17L	495 19.5	1335 52.6	592 23.3	3880 152.8	12PR 151A8	2.3 33		3450 7600		3450 7600	2.1 30		2650 5840

All tyres conform to ETRTO Standards



* This is a separate pattern from the one shown above

GRIP MASTER LOADER



Features

- The most durable and versatile skid steer tyre.
- Superior tread compounds provide resistance to chipping, chunking and tear.

Size	Type	Rim Width in	Unloaded Dimension		Loaded Static Radius mm in	Rolling Circum mm in	PR	Infl. press (bar/psi)	Load Carrying capacity, kg(lbs)			
			SW mm in	OD mm in					Speed, km/h(mph)			
									Static	10 5	15 10	30 20
10 - 16.5	Tubeless	8.25	264	773	358	2320	8	4.1	2970	1880	1485	1280
			10.4	30.4				14.1	91.3	60	6550	4145
12 - 16.5	Tubeless	9.75	307	831	383	2490	10	5.2	4015	2540	2005	1725
			12.1	32.73				15.1	98.0	75	8850	5600
								4.5	4015	2540	2005	1725
								65	8850	5600	4420	3800
								5.5	4525	2865	2260	1950
								80	9975	6315	4980	4300

All tyres conform to ETRTO Standards



COMPACTOR-XL



Features

- For use in pneumatic road rollers.
- Long service life.

Size	Type	Rim Width in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Load Capacity for Industrial applications (on hard improved surfaces)	
			SW mm in	OD mm in				Infl. Pressure bar/(psi)	Load Capacity (kgs/lbs) Speed (kmph/mph)
11.00 - 20	Tube Type	8.00	296 11.7	1084 42.7	509 20.0	3208 126.3	16	7.25 105	5450 kgs/12000 lbs 10 kmph/5 mph

All tyres conform to T & RA and ETRTO Standards



MPT 602

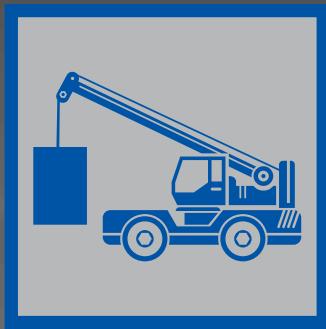
Features

- Designed for off road and on road services.
- Specially designed wide diagonal lugs offer self cleaning properties and resistance to side slip.
- Excellent traction in all weather and service conditions.

Size	Type	Unloaded Dimension					Load Carrying Capacity				
		Rim Width in	SW	OD	Loaded Static Radius	Rolling Circum	PR	Infl. Press. bar/(psi)	Load Index & Speed symbol	Max Speed (kmph/mph)	Max Load (kg/lbs)
			mm in	mm in	mm in	mm in					
405/70 - 20 (16.0/70 - 20)	Tubeless	13.0	405	1180	547	3470	14 PR	3.5	148	65	3150
			15.9	42.7	19.7	125.6	16 PR	4.5	154	65	3785
405/70 - 24 (16.0/70 - 24)	Tubeless	13.0	405	1186	547	3535	14 PR	4	151	65	3450
			15.9	46.5	21.5	139.2	16 PR	5	157	65	4140
12.5 - 18	Tubeless	11.0	325	990	455	2910	12 PR	3.5	134	65	2120
			12.8	39.0	17.9	114.6		51	D	40	4665
12.5 - 20	Tubeless	11.0	325	1042	480	3065	12 PR	3.5	135	65	2180
			12.8	41.0	18.9	120.7		51	D	40	4795
10.00 - 20	Tubeless	7.5	280	1075	509	3255	16 PR	7.5	146	50	3000
			11.0	42.3	20.0	128.1		109	B	31	6610

All tyres conform to T & RA and ETRTO Standards





PORTS & INDUSTRIAL





PORT PRO RX

T & RA CODE: IND-4

Features

- Tyres can support heavy loads at extreme working conditions.
- Special wear resistant compound gives extra life.
- Ideal for heavy duty application at ports and container handling application on hard and improved surfaces like concrete and runway asphalt.
- Can also be used for intermittent highway surface.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Load Capacity for Industrial applications (on hard improved surfaces)					
				SW	OD				Infl. Pressure bar/(psi)	25 kmph	10 kmph	5 kmph	1 kmph	Static
				mm in	mm in					Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)
12.00 - 24	Tube type	8.50	1.3	325 12.8	1285 50.6	603 23.7	3803 149.7	20	9.9 144	8630 19025	9320 20545	10000 22045	11040 24340	12420 27380
18.00 - 25	Tubeless	13.00	2.5	498 19.6	1673 65.9	764 30.1	4952 195.0	40	10 145	21250 46845	22950 50595	24650 54345	27200 59965	30600 67460
18.00 - 33	Tubeless	13.00	2.5	498 19.6	1877 73.9	866 34.4	5556 218.7	40	11.4 165	25000 55000	27000 59400	29000 63800	32000 70400	36000 79200

All tyres conform to T & RA and ETRTO Standards



PORT-PRO TX

T & RA CODE: IND-3

Features

- Specially designed for heavy duty service on forklifts, and reach stackers operating on hard improved surfaces.
- Self cleaning sturdy lugs are designed for special traction.
- Flat tread with large tread width provides high ground contact area for good traction on paved surfaces.
- More rubber in the footprint offers better penetration resistance and better mileage.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Load Capacity for Industrial applications (on hard improved surfaces)					
				SW	OD				Infl. Pressure bar/(psi)	25 kmph	10 kmph	5 kmph	1 kmph	Static
				mm in	mm in					Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)
18.00 - 25	Tubeless	13.00	2.5	510	1617	743	4781	40	10	21250	22950	24650	27200	30600
				20.1	63.7	29.2	188.2		145	46845	50595	54345	59965	67460
21.00 - 25	Tubeless	15.00	3.0	585	1759	800	5140	40	10	25800	27800	29900	33000	37100
				23.0	69.3	31.5	202.4		145	56760	61160	65780	72600	81620
21.00 - 35	Tubeless	15.00	3.0	580	2025	930	5987	40	10	30400	32800	35200	38900	43700
				22.8	79.7	36.6	235.7		145	66880	72160	77440	85580	96140



PORT PRO SL

T & RA CODE: IND-5



Features

- Specially designed for heavy duty service on forklifts, and reach stackers operating on hard improved surfaces.
- Specially formulated extra deep tread, reinforced sidewall offers superior heat resistance for trouble-free service and long life.
- Flat tread with large tread width provides high ground contact area for good traction on paved surfaces.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Load Capacity for Industrial applications (on hard improved surfaces)					
				SW	OD				Infl. Pressure bar/(psi)	25 kmph	10 kmph	5 kmph	1 kmph	Static
				mm in	mm in					Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)
18.00 - 25	Tubeless	13.00	2.5	498 19.6	1673 65.9	768 30.2	4952 195.0	40	10.5 150	21250 46845	22950 50595	24650 54345	27200 59965	30600 67460

All tyres conform to T & RA and ETRTO Standards



ROCK-XL

T & RA CODE: IND-3

Features

- Designed for heavy duty forklifts and container handlers operating on hard improved surfaces.
- A special wear resistant tread compound gives extra life.
- Self cleaning sturdy lugs are designed for better traction at the same time more rubber in the footprint offers better penetration resistance and excellent.
- Flatter tread with large tread width provides very high ground contact area for good traction on paved ground.
- Ideal for heavy duty applications at ports and Container Handling operations on hard, improved surfaces (eg. Concrete, runaway asphalt).

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Load Capacity for Industrial applications (on hard improved surfaces)					
				SW	OD				Infl. Pressure bar/(psi)	25 kmph	10 kmph	5 kmph	1 kmph	Static
				mm in	mm in					Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)
16.00 - 25	Tubeless	11.25	2	444 17.5	1485 58.5	682 26.9	4418 173.9	32	9 131	18125 39875	16875 37125	15625 34375	14470 31834	22500 49500

All tyres conform to T & RA and ETRTO Standards



SLICK 404

T & RA CODE: L5S

Features

- Specially designed for underground mines, heavy duty forklifts and loaders.
- Extra deep tread with specially formulated compound and reinforced sidewalls offer superior resistance to wear and damage, ensuring high mileage.
- Flatter tread with large tread width provides high ground contact area for good traction.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Infl. Pressure bar/(psi)	Load Carrying Capacity		
				SW mm in	OD mm in					10 kmph Max Load kgs/(lbs)	15 kmph Max Load kgs/(lbs)	25 kmph Max Load kgs/(lbs)
12.00 - 20	Tube type	8.50	-	315 12.4	1163 45.8	538 21.2	3433 135.2	20	7.75 112	6000 13230	5220 11510	4800 10580
12.00 - 24	Tube type	8.5	-	310 12.2	1270 50	592 23.3	3759 148	20	8.25 120	6900 15210	6000 13230	5520 12170
17.5 - 25	Tube type/ Tubeless	14	1.5	445 17.5	1399 55.08	648 25.51	4141 163.03	20	5.75 83	8250 18200	7180 15830	6600 14550
18.00 - 25	Tube type/ Tubeless	13.00	2.5	498 19.6	1673 65.9	768 30.2	4952 195.0	32	7.5 109	15000 33100	13050 28770	12000 26455
								40	9.5 138	17000 37480	14790 30605	13600 29980

All tyres conform to T & RA and ETRTO Standards

Note : 1) PLY RATING other than mentioned can be produced for special requirements.



ELEVETA

Features

- Specially designed for heavy duty service on forklifts, material handling and mining equipment.
- Alternate continuous lug with high contact area provides maximum stability and load distribution.
- Tough casing provides excellent durability.
- Superior tread compound provides greater resistance to tears and cuts in a variety of operating conditions.

Size	Type	Rim Width in	Unloaded Dimension		Load Carrying capacity, kg (lbs) Speed km/h (mph)														
			SW	OD	Static Loaded Radius	Rolling Circum	PR load Index	Infl. Press-ure	Lift-truck				Side Loaders			Other vehicles			
			mm in	mm in					mm in	mm in	Speed Symbol	bar/(psi)	Steering wheel		Load wheel		Static	25 16	35 22
			mm in	mm in	mm in	mm in	mm in	mm in	25 16	35 22	25 16	35 22							
6.00 - 9/ 6.90 - 9	Tube type	4.00E	160 6.3	540 21.3	245 9.6	1599 63	10PR 118A5	8.5 123	1320 2910	1220 2690	1720 3790	1650 3640	1990 4380	1320 2910	1220 2690	1720 3790	1320 2910	1110 2440	
6.50 - 10	Tube type	5.00F	177 7.0	588 23.1	267 10.5	1740 68.5	10PR 122A5	7.75 112	1500 3305	1390 3065	1950 4300	1875 4135	2265 4995	1500 3305	1390 3065	1950 4300	1500 3305	1260 2780	
7.00 - 12	Tube type	5.00K	192 7.6	683 26.9	311 12.2	2027 79.8	12PR	8.5	2060	1905	2680	2575	3110	2060	1905	2680	2060	1730	
							133A5	123	4540	4200	5910	5675	6855	4540	4200	5910	4540	3815	
							14PR	9.0	2120	1960	2755	2650	3200	2120	1960	2755	2120	1780	
8.25 - 15	Tube type	6.5	236 9.3	847 33.3	386 15.2	2515 99	12PR	7.0	3000	2780	3750	3750	4530	3000	2780	3900	3000	2520	
							146A5	104	6610	6120	8590	8260	9980	6610	6120	8590	6610	5550	
							14PR	8.3	3250	3010	4225	4060	4910	3250	3010	4225	3250	2730	
							146A5	120	7160	6630	9315	8940	10810	7160	6630	9315	7160	6010	

All tyres conform to ETRTO Standards



PORT XL PLUS

T & RA CODE: IND-4.5



- New IND-4.5 tyre for Reach Stacker.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius	Rolling Circum	PR	Load Capacity for Industrial applications (on hard improved surfaces)					
				SW mm in	OD mm in				Infl. Pressure bar/(psi)	25 kmph Max Load Capacity kgs/(lbs)	10 kmph Max Load Capacity kgs/(lbs)	5 kmph Max Load Capacity kgs/(lbs)	1 kmph Max Load Capacity kgs/(lbs)	Static Max Load Capacity kgs/(lbs)
18.00 - 25														
Under Development														

All tyres conform to T & RA and ETRTO Standards



GRIP MASTER-ND

T & RA CODE: E3 (IND)

Features

- Designed for heavy duty jobs to support heavy loads and extreme working conditions.
- Specially designed non directional tread ensures high hourage even on the most abrasive surfaces.
- Special heat, cut and weather resistant compound makes it capable of withstanding cuts, nags and bruises.
- A heavy duty nylon casing increases strength and durability and promotes multiple retreads.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Load Capacity for Industrial applications (Reach Stacker)			
				SW	OD				Transport (50 kmph)		Loading (10 kmph)	
				mm in	mm in				Max Load kgs/(lbs)	Infl. Pressure bar/(psi)	Max Load kgs/(lbs)	Infl. Pressure bar/(psi)
14.00 - 24	Tubeless	10.00	1.5	385 15.2	1368 53.9	630 24.8	4050 150.4	20	4625	4.75	8500	7.0
									10200	69	18740	102
									24	5150	5.75	9500
								28	6600	6.60	10000	9.25
									12345	94	23045	134

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Infl. Pressure bar/(psi)	Load Capacity for Industrial applications (Reach Stacker)				
				SW	OD					25 kmph	10 kmph	5 kmph	1 kmph	Static
				mm in	mm in					Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)	Max Load Capacity kgs/(lbs)
18.00 - 25	Tubeless	13.00	2.5	498 19.6	1615 63.6	738 29.1	4780 188.2	40	10 145	21250	22950	24650	27200	30600
										46845	50595	54345	59965	67460



SLICK 431

T & RA CODE: L4S

Features

- Designed for heavy duty forklifts and container handling equipments operating on hard improved surface.
- Specially formulated deep tread, reinforced sidewalls offer superior resistance to wear & damage and ensures long life.
- Flatter tread with large tread width provides high ground contact area for good traction on paved ground.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Infl. Pressure bar/(psi)	Load Capacity for Industrial applications (Reach Stacker)					
				SW	OD					25 kmph	10 kmph	5 kmph	1 kmph	Static	
				mm in	mm in					Max Load kgs/(lbs)	Max Load kgs/(lbs)	Max Load kgs/(lbs)	Max Load kgs/(lbs)	Max Load kgs/(lbs)	
16.00 - 25	Tubeless	11.25	2	432	1548	715	4580	28	9	14375	15525	16675	18400	20700	
				17.0	60.94	28.15	180.3	32	10	15625	16875	18125	20000	22500	
										145	34450	37200	39960	44090	49605



PORT-PRO SL

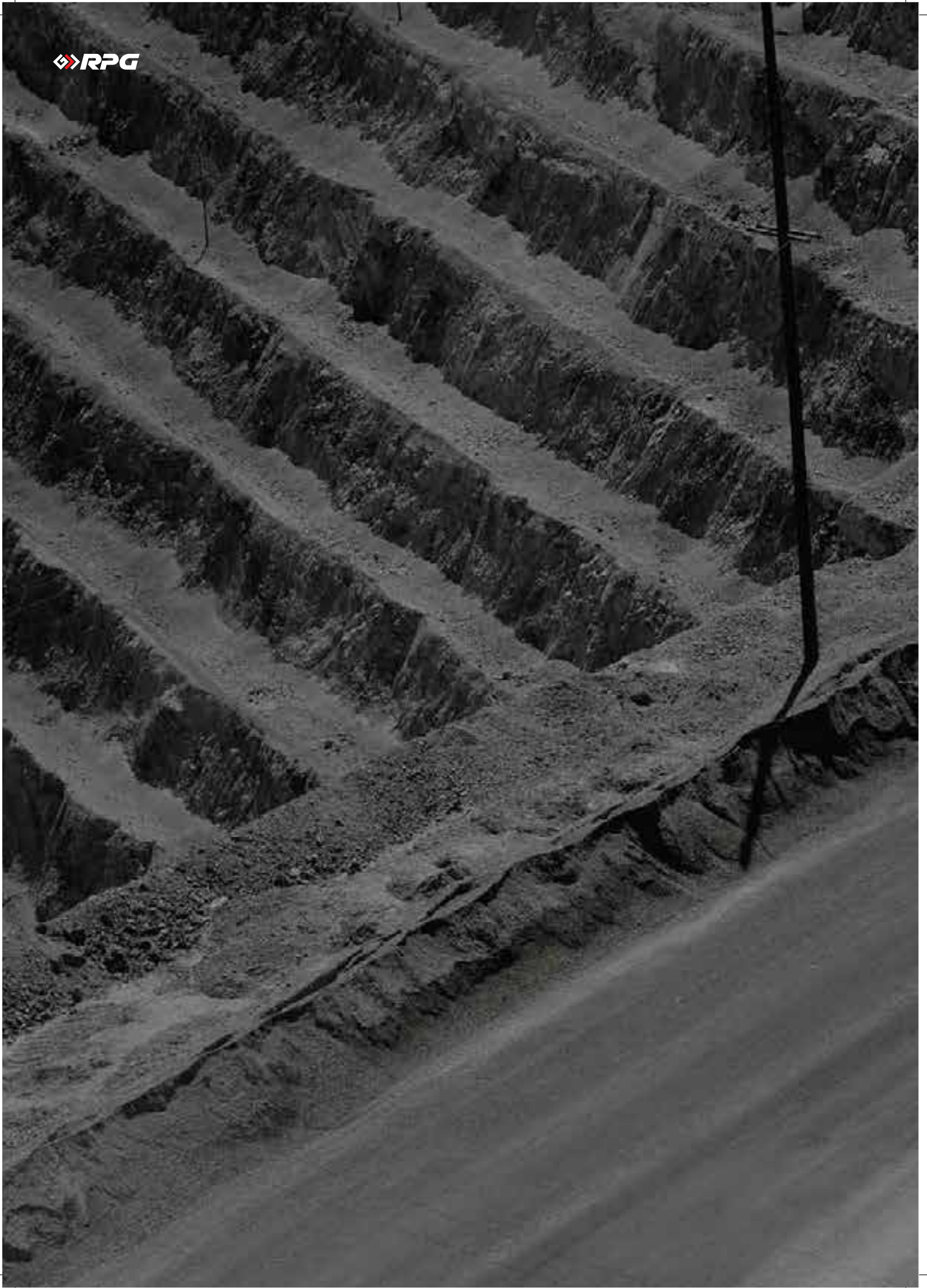
T & RA CODE: IND-4

Features

- Specially designed for heavy duty forklifts and containers handlers(reach stacker) operating on hard improved surfaces.
- Specially formulated extra deep tread, reinforced sidewalls offer superior heat resistance for trouble-free service & longer life.
- Flatter tread with large width provides high ground contact area good traction on paved surfaces.

Size	Type	Rim Width in	Flange Height in	Unloaded Dimension		Static Loaded Radius mm in	Rolling Circum mm in	PR	Infl. Pressure bar/(psi)	Load Capacity for Industrial applications (on hard improved surface)				
				SW mm in	OD mm in					25 kmph	10 kmph	5 kmph	1 kmph	Static
				Max Load kgs/(lbs)	Max Load kgs/(lbs)					Max Load kgs/(lbs)	Max Load kgs/(lbs)	Max Load kgs/(lbs)		
18.00 - 25	Tubeless	13.00	2.5	498 19.6	1673 65.9	768 30.2	4952 195.0	40	10.5 150	21250 46845	22950 50595	24650 54345	27200 59965	30600 67460
18.00 - 33	Tubeless	13.00	2.5	498 19.6	1877 73.9	862 33.9	5556 218.7	40	11.4 165	25000 55000	27000 59400	29000 63800	32000 70400	36000 79200

All tyres conform to ETRTO Standards



A high-angle, black and white photograph of a large dump truck filled with gravel, driving on a dirt road in a quarry. The background shows the terraced levels of the quarry. The text 'RADIAL TYRES' is overlaid in large, white, bold letters at the bottom of the image.




RADIAL TYRES



ROCK XLR21

Features

- Extra deep tread, long tread life with high casing durability.
- Superior side wall cut resistance.




Size	Star Level	Type	Code	Standard Rim	Unloaded Dimension		Tread Depth		Load Index TRA	Max Load/Inflation Press (KG/KPA), TRA
					SW	OD	mm	(32NDS)		50 Km/h
					mm	mm				
										
23.5R25	☆☆	Tubeless	L5	19.50/2.5	597	1613	78	98/32	201A2	14500/ 600
26.5R25	☆☆	Tubeless	L5	22.00/3.0	673	1798	88	111/32	209A2	18500/ 650
29.5R25	☆☆	Tubeless	L5	25.00/3.5	750	1920	95	120/32	216A2	22400/ 650



TRAC XLR21

Features

- Deep tread design & long tread life.
- Superior side wall cut resistance.
- Excellent traction, flotation and self cleaning.

Size	Star Level	Type	Code	Standard Rim	Unloaded Dimension			Max Load/Inflation Press (KG/KPA), TRA		
					SW	OD	Tread Depth		Load Index	50 Km/h
					mm	mm	mm	(32NDS)		
										
26.5R25	☆☆	Tubeless	E4	22.00/3.0	673	1798	58	73/32	193B	11500/ 525
29.5R25	☆☆	Tubeless	E4	25.00/3.5	750	1920	60	76/32	200B	14000/ 525



TRAC XLR11

Features

- Superior traction, self cleaning tread, reduced vibration & increased stability.
- Special liner compound prevents air leakage.

Size	Star Level	Type	Code	Unloaded Dimension			Tread Depth		Load Index TRA	Max Load/Inflation Press (KG/KPA), TRA	
				Standard Rim	SW	OD	mm	(32NDS)		50 Km/h	10 Km/h
					mm	mm					
17.5R25 (445/80R25)	☆☆	Tubeless	E3/L3	14.00/1.5	445	1348	28	35/32	182A2	5450/ 525	8500/ 650
20.5R25 (525/80R25)	☆☆	Tubeless	E3/L3	17.00/2.0	520	1492	26	33/32	177B 193A2	7300/ 525	11500/ 650
23.5R25	☆☆	Tubeless	E3/L3	19.50/2.5	597	1617	31.5	40/32	185B	9250/ 525	



TRAC XL R11

E4



Features

- Non-directional deep tread pattern designed for muddy and soft surfaces
- Excellent traction and floatation offers comfortable handling
- Superior long tread life and excellent puncture resistance
- Low rolling resistance and fuel economy

Size	Star Level	Type	Code	Standard Rim	Unloaded Dimension			Max Load/Inflation Press (KG/KPA), TRA			
					SW	OD	Tread Depth		Load Index TRA	50 Km/h	10 Km/h
					mm	mm	mm	(32NDS)			
12.00R24	☆☆☆	Tubetype	E4	8.5	315	1245	31.5	40/32	158/155F	4250/830 3875/830	(Single) (Dual)






PORT PRO XLR11



Features

- Ultra deep tread with excellent carrying capacity.
- Long service life.

Size	Star Level	Type	Code	Standard Rim	Unloaded Dimension			Max Load/Inflation Press (KG/KPA), TRA			
					SW	OD	Tread Depth		Load Index	50 Km/h	10 Km/h
					mm	mm	mm	(32NDS)			
											
14.00R24	☆☆☆	Tubeless	IND5	10.00W/10.0	375	1368	60	75/32	196A5	12500/1000 (25 Km/h)	
18.00R25	☆☆☆	Tubeless	IND4	13.00/2.5	498	1673	63.5	80/32	214/A5	21200/1000 (25 Km/h)	



CEAT
SPECIALTY

ROCK XLR11



Features

- Excellent traction, stability & comfort.
- Specially designed side wall protects cutting.

Size	Star Level	Type	Code	Standard Rim	Unloaded Dimension			Max Load/Inflation Press (KG/KPA), TRA		
					SW	OD	Tread Depth		Load Index	50 Km/h
					mm	mm	mm	(32NDS)		
18.00R33	☆☆	Tubeless	E4	13.00/2.5	500	1875	49	62/32	191B	10900/700
21.00R35	☆☆	Tubeless	E4	15.00/3.0	555	2040	53	67/32	201B	14500/700
24.00R35	☆☆	Tubeless	E4	17.00/3.5	655	2175	58	73/32	209B	18500/700



LXLM31

Features

- High speed capability.
- Excellent traction, handling response with strong casing.

Size	Star Level	Type	Code	Standard Rim	Unloaded Dimension		Tread Depth		Load Index TRA	Max Load/Inflation Press (KG/KPA), TRA
					SW	OD	mm	(32NDS)		50 Km/h
					mm	mm				
16.00R25 (445/95R25)	☆☆	Tubeless	E2	11.25/2.0	432	1493	23	29/32	177B	7300/ 700



TRAC XLR31

Features

- Excellent traction & grip.
- Self cleaning tread.

Size	Star Level	Type	Code	Standard Rim	Unloaded Dimension		Tread Depth		Load Index TRA	Max Load/Inflation Press (KG/KPA), TRA	
					SW	OD	mm	(32NDS)		50 Km/h	10 Km/h
					mm	mm					
14.00R24 (385/95R24)	★ ★	Tubeless	G2	8.00 TG	360	1350	26	33/32	153A8	3650/375 (40 Km/h)	
16.00R24 (445/95R24)	★ ★	Tubeless	G2	10.00 VA	425	1460	28	35/32	161A8	4625/375 (40 Km/h)	



TRAC XLR51



Features

- Excellent traction & flotation.
- Specially meant for mining with excellent resistance to cutting.
- Puncture resistance & long service life.

Size	Star Level	Type	Code	Standard Rim	Unloaded Dimension		Tread Depth		Load Index TRA	Max Load/Inflation Press (KG/KPA), TRA	
					SW	OD	mm	(32NDS)		50 Km/h	10 Km/h
					mm	mm					
17.5R25 (445/80R25)	☆☆	Tubeless	E3/L3	14.00/1.5	445	1348	28	35/32	182A2	5450/ 525	8500/ 650
20.5R25 (525/80R25)	☆☆	Tubeless	E3/L3	17.00/2.0	520	1492	26	33/32	177B 193A2	7300/ 525	11500/ 650
23.5R25	☆☆	Tubeless	E3/L3	19.50/2.5	597	1617	32	40/32	185B 201A2	9250/ 525	14500/ 650
26.5R25	☆☆	Tubeless	E3/L3	22.00/3.0	673	1750	35	44/32	193B 209A2	11500/ 525	18500/ 650
29.5R25	☆☆	Tubeless	E4/L4	25.00/3.5	750	1873	57	72/32	200B 216A2	14000/ 525	22400/ 650



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