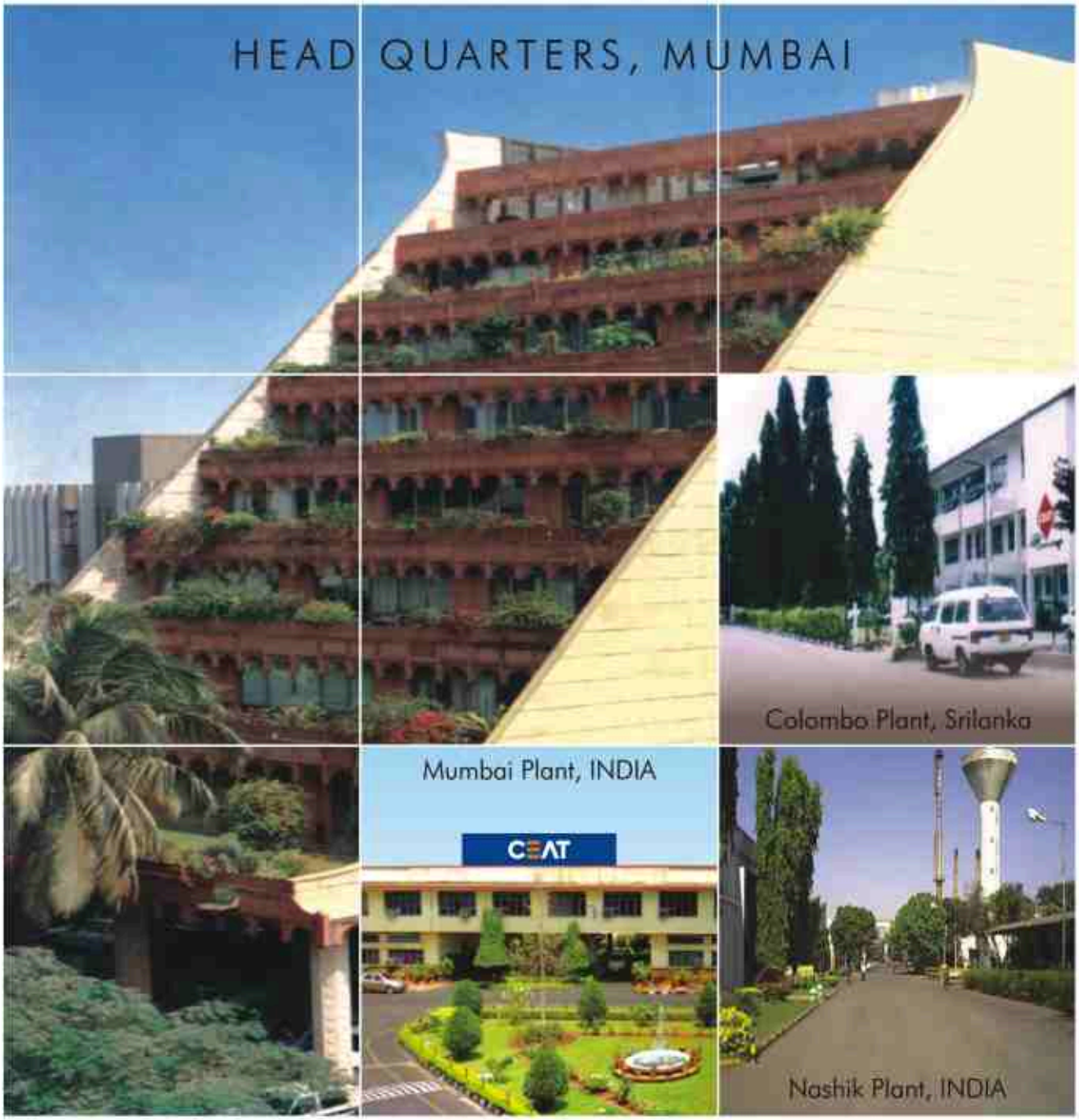
RPG

CEAT

SPECIALITY TYRES

CEAT INDIA



CEAT

INDIA

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INDEX-SIZE WISE

INDEX-SIZE WISE

COMPANY PROFILE

CEAT Limited is one of India's leading tyre manufacturers. Established in 1958, CEAT is a part of RPG Enterprises, among the top 5 business houses in India, with a group turnover of USD 2.5 billion.

CEAT's turnover for the year 2009 - 10 stands at USD 700 million. CEAT's export business had a roubust performance with turnover of USD 145 million.

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 & Three Wheeler tyres for domestic use - radial & cross ply. In the Speciality segment CEAT manufactures Farm, Mining & Earthmover, Industrial & Construction Equipment tyres and other special application Off the Road tyres.

Technology 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 45 years of expertise, today CEAT is capable of facing the challenging needs of our customers around the world.

Marketing CEAT enjoys a major market share in India where tyres are exposed to extreme operating conditions. In India, CEAT is the largest supplier to OEMs particularly in SUV, LCV, Truck and Tractor segment. CEAT has been exporting tyres since 1964, which has helped it in getting firm foothold in the export market. Today ALTURA / CEAT tyres are put to service in more than 102 countries across the globe. Its main export markets are North & South America, South East Asia, Middle East and Africa. AIRIA and CAPEXIL have recognized CEAT's efforts with awards for 10 consecutive years for outstanding export performance.

MARKET

CEAT enjoys a major market share in India where tyres are exposed to extreme operating conditions. In India CEAT is the largest suppliers to OEMs particularly in SUV, LCV, Truck and Tractor segment.

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CEAT

TUV CEAT

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

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.

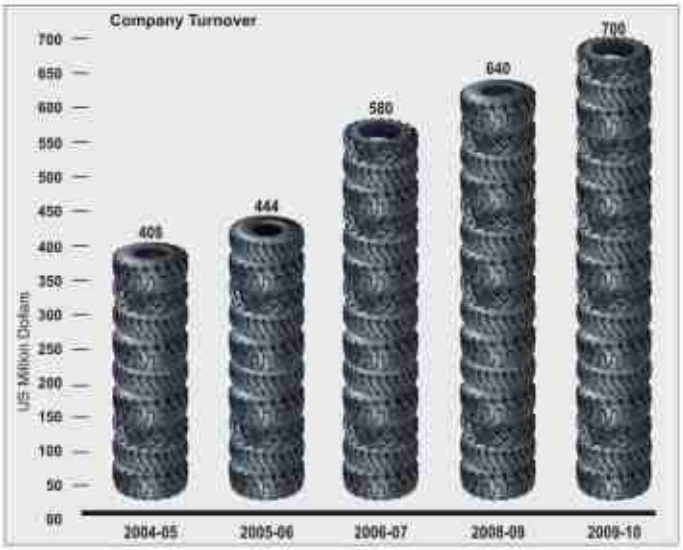
The tyres manufactured by CEAT are DOT, ECE and INMETRO certified .

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 skills of our employees.



P. K. CHOWDHARY
MANAGING DIRECTOR

GENERAL INFORMATION

AGRICULTURAL TYRES

CEAT agricultural tyres are designed for optimum performance under all working conditions. They are best suitable for agricultural and forestry jobs with occasional on road driving.

Before using these tyres for any other application the manufacturer should be consulted.

LOAD & INFLATION PRESSURE : *The tyres should not be overloaded & should not be driven over inflated or under inflated. Correct inflation pressure should be used depending upon the load on the tyre.*

For industrial use or for on the road applications, an inflation pressure of 1.4 bar (20psi) should be maintained for tractor drive wheel tyres, even when the load is insignificant.

Inflation pressure should not be lower than 1.1 bar (16 psi) for field application. However, if any specific operation requires a lower pressure, it should be raised back to the normal pressure after completing the specific task.

RIMS & TUBES : *Always use the recommended rim size.*

Always use a new tube along with a new tyre. Tube size should be identical to tyre size. For tractor drive wheels use an Air - Water valve tube.

MOUNTING & DISMOUNTING : *Always practice correct mounting and dismounting procedures. After mounting the tyres inflate it to seat the beads. Then deflate it completely and re-inflate with recommended operating pressure.*

Never inflate tractor drive wheel tyres beyond 2.5 bar (35 psi) while seating the beads.

TYRE SELECTION : *Selection of the tyre size and Ply Rating on each axle should be based on the highest individual wheel load when the vehicle is weighed* statically. *Maximum load per tyre should not be greater than that specified in the applicable table.*

For sustained high torque service on tractors operating in the field the drive wheel tyres must be selected to withstand the maximum pull of the tractor under operating service.

CEAT drive wheel tyres are designated as A8 tyres (operating speed 40 kmph)

GENERAL INFORMATION

OFF THE ROAD & INDUSTRIAL TYRES :

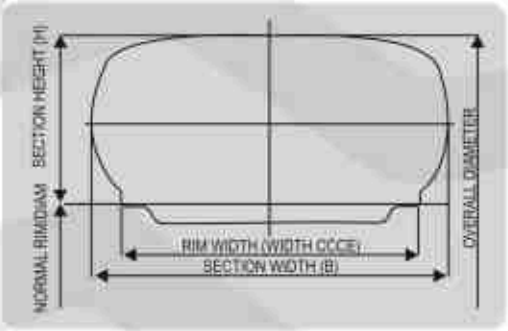
CEAT off road tyres are designed for mining, road construction, timber hauling, material handling, port applications and other industrial & construction jobs. Before using them for any other application the manufacturer should be consulted. Wrong selection of tyre, improper handling, poor maintenance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

LOAD & INFLATION PRESSURE : To obtain best results from the tyres correct inflation pressures has 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 1.0 bar (15psi) 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



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
102	850	129	1850	156	4000	183	8750
103	875	130	1900	157	4125	184	9000
104	900	131	1950	158	4250	185	9250
105	925	132	2000	159	4375	186	9500
106	950	133	2060	160	4500	187	9750
107	975	134	2120	161	4625	188	10000
108	1000	135	2180	162	4750	189	10300
109	1030	136	2240	163	4875	190	10600
110	1060	137	2300	164	5000	191	10900
111	1090	138	2360	165	5150	192	11200
112	1120	139	2430	166	5300	193	11500
113	1150	140	2500	167	5450	194	11800
114	1180	141	2575	168	5600	195	12150
115	1215	142	2650	169	5800	196	12500
116	1250	143	2725	170	6000	197	12850
117	1285	144	2800	171	6150	198	13200
118	1320	145	2900	172	6300	199	13600
119	1360	146	3000	173	6500	200	14000
120	1400	147	3075	174	6700	201	14500
121	1450	148	3150	175	6900	202	15000
122	1500	149	3250	176	7100	203	15500
123	1550	150	3350	177	7300	204	16000
124	1600	151	3450	178	7500	205	16500
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

Speed Symbol	Speed Km/h
A1	5
A2	10
A3	15
A4	20
A5	25
A6	30
A7	35
A8	40
B	50
C	60
D	65
E	70
F	80
G	90
J	100
K	110
L	120
M	130
N	140
P	150
Q	160
R	170
S	180

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.

RMA INDUSTRY CODES

The Tyre and Rim Association has approved the following tyre designations for agricultural tyres, regardless of manufacturer.

CODE	INDUSTRY TYRE TYPE	TYRE SERVICE
Front Tractor Tyres		
F-1	Agricultural single rib tread	Rice farming
F-2M	Agricultural multiple-rib tread	General farming
F-2	Agricultural multiple-rib tread	General farming
F-3	Industrial multiple-rib tread	Light industrial service
F-2D	Agricultural dual rib	
Drive Tractor Tyres		
R-1	Drive wheel, regular tread	General farming
R-1W	Drive wheel, wet traction tread	Wet or moist soil
R-2	Cane and Rice, drive wheel, deep tread	Wet muck, Sugar cane, Rice farming
R-3	Drive wheel, shallow tread	Sandy or volcanic ash soils, Orchards, Highway mowing, Golf course work, Light industrial service
R-4	Industrial tractor, drive wheel, intermediate tread	Light industrial service, Highway mowing
Flotation Tyres		
HF-1	High flotation, rib tread	Golf course work
HF-2	High flotation, regular lug tread	General farming
HF-3	High flotation, deep lug tread	Wet or moist soil
HF-4	High flotation, extra deep tread	Swamp land
Garden Tractor Tyres		
	Lug Type	Gardens
Implement Tyres		
I-1	Rib tread	Free rolling wheels
I-2	Moderate traction implement	Drive or free rolling wheels
I-3	Traction tread	Drive wheels
I-6	Smooth tread	

OFF THE ROAD TYRE INDUSTRY CODES

CODE NUMBER	TREAD TYPE	TYPE OF SERVICE	*MAXIMUM SPEED (KMPH)	*MAXIMUM 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.

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.

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.
- To keep the tyres free from oil, grease etc.
- To keep proper tyre performance record. This includes :
  - 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 generates ozone which deteriorates rubber.
- Prompt repair of service damaged tyres. There are usually three major typesof 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 operators choose tyre ballasting instead. This practice is used to enhance the performance of front -end loaders, motor graders and farm 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 (200 feet) in 30 minutes). During creep motion, loads 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.*

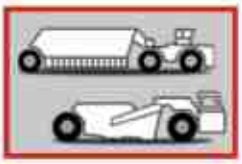
9) **Maximum Speed -** *The peak speed attained by the vehicle during any part of a cycle (loaded or unloaded).*

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.*

EARTHMOVER TYRES

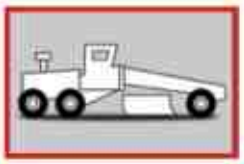
Tough tyres specially engineered for the toughest operation conditions. Thanks to 35 years long experience in mining & logging category CEAT OTR tyres are today one of the major tyre suppliers to the Indian mines and ports. The thick sidewall and undertread offers high resistance to external damages. Specially designed "heat and cut" resistant compound and a cooler running base compound ensures a long service life. Robust nylon casing boosts the durability and offers multiple retreads, thus provides an excellent return on your investment.


Dumpers (E3 & E4)


Dumpers (E3 & E4)


Dumpers (E3 & E4)


Dumpers (E3 & E4)


Dumpers (E3 & E4)

14.00 - 24
14.00 - 25

CATEGORY : E3 / L3

GRIP MASTER ND

TYPE : TUBELESS / TUBETYPE

- Designed for heavy duty jobs, the entire family of GRIP MASTER tyres can support heavy loads in extreme working conditions.
- The specially designed non directional tread ensures high hourage even on the most abrasive surfaces.
- A special heat , cut and weather resistant compound makes it capable to withstand cuts, snags and bruises.
- A heavy duty nylon casing increases strength and durability and promotes multiple retreads to get an excellent return on your investment.

Size	Rim Width in	Flange Height in	Unloaded dimension SW	Unloaded dimension OD	Static Loaded Radius	Rolling Circum ference	PR	Load capacity: Transport (50 kmph) Max Load kgs / (lbs)	Transport (50 kmph) Infl. Pressure bar / (psi)	Loading (10 kmph) Max Load kgs / (lbs)	Loading (10 kmph) Infl. Pressure bar / (psi)	Tons Kilometer per hour (TKPH)
			mm in	mm in	mm in	mm in						
14.00 - 24	10.00	1.5	385 15.2	1368 53.9	630 24.8	4050 159.4	20	4625 10200	4.75 69	8500 18740	7.0 102	128
							24	5150 11400	5.75 83	9500 20945	8.5 123	142
							28	5600 12345	6.50 94	10000 22045	9.25 134	154
14.00 - 25	10.00	1.5	385 15.2	1368 53.9	630 24.8	4050 159.4	20	4625 10200	4.75 69	8500 18740	7.0 102	128
							24	5150 11400	5.75 83	9500 20945	8.5 123	142
							28	5600 1245	6.50 94	10000 22045	9.25 134	154

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

CATEGORY : E3 / L3

ROCK - XL

TYPE : TUBELESS

- Sturdy lug design together with a robust heavy duty casing makes this tyre ideal for severe heavy duty applications in mining & quarrying.
- Self cleaning sturdy lugs are designed for better traction all the same time more rubber in the footprint offers better penetration resistance and excellent mileage.
- A specially formulated heat and cut resistant compound resists cuts and snags, and provides optimum wear in a variety of operating conditions.

Size	Rim Width in	Flange Height in	Unloaded dimension SW	Unloaded dimension OD	Static Loaded Radius	Rolling Circum ference	PR	Load capacity: Transport (50 kmph) Max Load kgs / (lbs)	Transport (50 kmph) Infl. Pressure bar / (psi)	Loading (10 kmph) Max Load kgs / (lbs)	Loading (10 kmph) Infl. Pressure bar / (psi)
			mm in	mm in	mm in	mm in					
16.00 - 25	11.25	2.0	432 17.0	1493 58.8	686 27.0	4420 174.0	28	6700 14800	5.75 83	11500 25400	7.5 109
							32	7300 16090	6.5 94	12500 27560	8.75 127
21.00 - 25	15	3.0	585 23.0	1759 69.3	800 31.5	5140 202.4	40	11850 26125	6.25 91	20600 45415	8.25 120

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

CATEGORY : E3 / L3

TRAC - XL

TYPE : TUBELESS / TUBETYPE

- The massive heavy duty tyre for dump trucks, 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 most severe terrain.
- A special heat, cut and weather resistant compound protects the tyre from cuts and snags.

Size	Type	Rim Width in	Flange Height in	Unloaded dimension		Static Loaded Radius	Rolling Circum	PR	Load capacity				Tons Kilometer per hour (TKPH)
									Transport (50 kmph)		Loading (10 kmph)		
				SW	OD				Max Load Capacity kgs / (lbs)	Infl. Pressure bar / (psi)	Max Load Capacity kgs / (lbs)	Infl. Pressure bar / (psi)	
				mm in	mm in	mm in	mm in						
17.5-25	Tube type/ Tubeless	14	1.5	445 17.5	1348 53.08	624 24.6	3990 157.1	12	3650 8050	2.25 33	6150 13600	3.5 51	77
								16	4250 9350	3 44	7300 16100	4.75 69	91
								20	5000 11000	4 58	8250 18200	5.75 83	103
20.5-25	Tube type/ Tubeless	17	2	521 20.5	1493 58.8	686 27.0	4416 173.8	12	4500 9900	2 29	6700 14800	2.5 36	84
								16	5450 12000	2.75 40	8250 18200	3.5 51	103
								20	6000 13200	3.25 47	9500 20900	4.5 65	119
23.5-25	Tube type/ Tubeless	19.5	2.5	597 23.5	1617 63.7	740 29.1	4786 188.4	12	5300 11700	1.75 25	8000 17600	2.25 33	100
								16	6150 13600	2.25 33	9500 20900	3 44	118
								20	7300 16100	3 44	10900 24000	3.75 54	136
								24	8000 17600	3.5 51	12500 27600	4.75 69	156
26.5-25	Tubeless	22	3.0	677 26.7	1750 68.9	798 31.4	5125 201.8	24	9250 20400	3 44	14000 30900	4 58	175

All tyres conform to T & RA and ETRTO Standards

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

CATEGORY : E3 / L3

TRAC - XL

TYPE : TUBETYPE

- The massive heavy duty tyre for side dump trucks, loaders & 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 most severe terrain.
- A special heat, cuts and weather resistant compound protects the tyre from cuts and snags.

Size	Rim Width in	Flange Height in	Unloaded dimension		Static Loaded Radius	Rolling Circum	PR	Load capacity				
								Transport (50 kmph)		Loading (10 kmph)		
			SW	OD				Max Load Capacity kgs / (lbs)	Infl. Pressure bar / (psi)	Max Load Capacity kgs / (lbs)	Infl. Pressure bar / (psi)	
			mm in	mm in	mm in	mm in						
14.00-20	10	2.0	382 15.0	1266 49.8	583 23.0	3750 147.6	22	5.5 80	4365 9625	6230 18145	8.5 125	

All tyres conform to T & RA and ETRTO Standards

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

CATEGORY : E4 / L4

ROCK - XL

TYPE : TUBELESS

- Deep tread and a 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 operations.
- Self cleaning sturdy lugs are designed for better traction at the same time more rubber in the footprint offers better penetration resistance and excellent mileage.
- A specially formulated heat and cuts resistance compound resists cuts and snags and provides optimum wear in a variety of operating conditions.

Size	Rim Width in	Flange Height in	Unloaded dimension		Static Loaded Radius	Rolling Circum	PR	Load capacity				Tons Kilometer per hour (TKPH)
			SW	OD				Transport (50 kmph)		Loading (10 kmph)		
			mm in	mm in	mm in	mm in		Max Load kgs / (lbs)	Infl. Pressure bar/(psi)	Max Load kgs/(lbs)	Infl. Pressure bar / (psi)	
18.00 - 25	**13.00**	**2.5**	498 *19.6*	1673 *65.9*	764 *30.1*	4952 *195.0*	**32**	**8750** *19300*	**5.75** *83*	**15000** *33100*	**7.5** *109*	**160**
							40	**9750** *21500*	**7.0** *102*	**17000** *37480*	**9.5** *138*	**176**
18.00 - 33	**13**	**2.5**	498 *19.6*	1877 *73.9*	866 *34.1*	5556 *218.7*	**32**	**10300** *22700*	**5.75** *83*	**17500** *38600*	**7.5** *109*	**188**
							36	**10600** *23370*	**6.25** *90*	**18500** *37480*	**8.5** *123*	**193**
							40	**11200** *24690*	**7.0** *102*	**19500** *42990*	**9.5** *138*	**204**
21.00 - 35	**15**	**3.0**	595 *23.4*	2052 *80.8*	953 *37.5*	6125 *241*	**36**	**12850** 28330	**5.5** *80*	**23000** *50705*	**7.5** *110*	**256**
							40	**14000** 30865	**6.25** *91*	**24300** *53570*	**8.25** *120*	**280**
24.00 - 35	**17**	**3.5**	653 *25.7*	2175 *85.6*	998 *39.3*	6390 *251.5*	**48**	**18500** *10785*	**6.5** *95*	**31500** *69445*	**8.5** *125*	**300**

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

GRIP MASTER XL

CATEGORY : E4 / L4

GRIP MASTER XL

TYPE : TUBELESS / TUBETYPE

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

Size	Rim Width in	Flange Height in	Unloaded dimension		Static Loaded Radius	Rolling Circum	PR	Load capacity				Tons Kilometer per hour (TKPH)
			SW	OD				Transport (50 kmph)		Loading (10 kmph)		
			mm in	mm in	mm in	mm in		Max Load kgs / (lbs)	Infl. Pressure bar/(psi)	Max Load kgs/(lbs)	Infl. Pressure bar / (psi)	
18.00 - 25	**13.00**	**2.5**	498 *19.6*	1673 *65.9*	764 *30.1*	4952 *195.0*	**32**	**8750** *19300*	**5.75** *83*	**15000** *33100*	**7.5** *109*	**160**
							40	**9750** *21500*	**7.0** *102*	**17000** *37480*	**9.5** *138*	**176**

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

CATEGORY : G2 / L2

GRADER - XL

TYPE : TUBELESS / TUBETYPE

- A sturdy, robust tyre for drive wheel off the road equipment.
- Superior tread and sidewall compounds with weather and ozone resistant properties and a strong nylon casing ensures smooth, trouble free services in the most severe operating conditions.
- Ideal for use in motor graders as well as loaders.

Size	Rim Width in	Flange Height in	Unloaded dimension SW mm / in	Unloaded dimension OD mm / in	Static Loaded Radius mm / in	Rolling Circum mm / in	PR	Load capacity GRADER SERVICE 40kmph / (25mph) Max Load kgs / (lbs)	Load capacity GRADER SERVICE 40kmph / (25mph) Infl. Pressure bar / (psi)	Load capacity LOADER SERVICE 10kmph / (5mph) Max Load kgs / (lbs)	Load capacity LOADER SERVICE 10kmph / (5mph) Infl. Pressure bar/(psi)
13.00 - 24	**8.00**	**1.4**	333 *13.1*	1278 *50.3*	582 *22.9*	3783 *148.9*	**12**	**2725** *6000*	**3.0** *44.0*	**5600** *12350*	**4.5** *65*
14.00 - 24	**8.00**	**1.4**	362 *14.3*	1348 *53.1*	614 *24.2*	3990 *157.1*	**12**	**3075** *6800*	**2.5** *36.0*	**6300** *13890*	**4.25** *62*
							16	**3650** *8050*	**3.5** *51*	**7300** *16090*	**5.5** *80*

CATEGORY : G2 / L2

LOADER - XL

TYPE : TUBELESS / TUBETYPE

- A tough wide base tyre, provides traction as well as high floatation.
- Superior compound and a tough casing makes it ideal for rugged service on front end loader.

Size	Rim Width in	Flange Height in	Unloaded dimension SW mm / in	Unloaded dimension OD mm / in	Loaded Static Radius mm / in	Rolling Circum mm / in	PR	Load capacity GRADER SERVICE 40kmph / (25mph) Max Load kgs/(lbs)	Load capacity GRADER SERVICE 40kmph / (25mph) Infl. Pressure bar/(lbs)	Load capacity LOADER SERVICE 10kmph / (5mph) Max Load kgs/(lbs)	Load capacity LOADER SERVICE 10kmph / (5mph) Infl. Pressure bar/(lbs)
15.5 - 25	**12.00**	**1.3**	394 *15.5*	1278 *50.3*	594 *23.4*	3780 *148.8*	**12**	**2650** *5840*	**2.5** *36.0*	**5600** *12345*	**4.0** *58.0*
17.5 - 25	**14.00**	**1.5**	445 *17.5*	1348 *53.1*	624 *24.6*	3990 *157.1*	**12**	**2900** *6400*	**2.0** *29.0*	**6150** *13600*	**3.5** *51.0*
							14	**3000** *6600*	**2.3** *33*	**6700** *14800*	**4.0** *58*
							16	**3350** *7400*	**3** *40*	**7300** *16100*	**4.75** *69*

LOADER - XL

TYPE : TUBELESS / TUBETYPE

- High Floatation tyre designed for rugged, high performance service on front end loader as well as dozer applications.
- Wide robust tread bars are specially designed to provide maximum traction and to resist tearing and chipping.
- A superior cut and weather resistant compound coupled with a strong nylon casing makes this tyre ideal for use in shovel loaders, dozers, scrapers and special vehicles on building sites.

Size	Rim Width in	Flange Height in	Unloaded dimension		Loaded Static Radius	Rolling Circum	PR	Load capacity GRADER SERVICE 40kmph / (25mph)		Load capacity LOADER SERVICE 10kmph / (5mph)	
			SW	OD				Max Load kgs/(lbs)	Infl. Pressure bar/(lbs)	Max Load kgs/(lbs)	Infl. Pressure bar/(lbs)
			mm in	mm in	mm in	mm in					
20.5 - 25	**17.00**	**2.0**	520 *20.5*	1492 *58.7*	686 *27.0*	4416 *173.8*	**12**	**3550** *7850*	**1.75** *25*	**6700** *14800*	**2.5** *36*
							16	**4000** *8800*	**2.25** *33*	**8250** *18200*	**3.50** *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)

SUPER TRANSPORT LUG

FOR USE IN INTERMITENT HIGHWAY SERVICE

- These are mining and logging tyres which can also be used in intermittent highway service.
- All the patterns 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.

CT SUPER

TRAC XL

TRAC XL

(12.00-24)

ROCK XL

Size	Pattern	Rim Width in	Unloaded dimension		PR	Infl. press bar psi	Load Capacity
			SW mm in	OD mm in			
9.00 - 20	**CT SUPER**	**7**	**265** *10.4*	**1045** *41.1*	**16**	**7.25** *105*	**2325** *5125*
10.00 - 20	**TRAC-XL**	**7.5**	**276** *10.9*	**1064** *42.2*	**18**	**7.25** *105*	**2690** *5930*
11.00 - 20	**ROCK XL**	**8.0**	**293** *11.5*	**1106** *43.5*	**18**	**7.6** *110*	**3000** *6610*
12.00 - 24	**ROCK-XL**	**8.5**	**328** *12.9*	**1257** *49.5*	**20**	**8.4** *122*	**3975** *8765*
12.00 - 24	**TRAC XL**	**8.5**	**315** *12.4*	**1247** *49.1*	**20**	**7.9** *115*	**3875** *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 11/2 hour period of run.

EARTHMOVER TYRES

CATEGORY : UNDERGROUND MINING

SLICK 413

TYPE : TUBETYPE

- Specially designed for underground mines, SLICK 413 is capable to carry Load under most severe operating conditions.
- Specially formulated deep tread, reinforced sidewalls offer superior resistance to wear & damage and ensures high mileage.
- Flatter tread with large tread width provides high ground contact area for good traction.

Size	Rim Width in	Unloaded dimension		PR	Load Capacity for Industrial applications (on hard improved surfaces)			
		SW	OD		Infl. press bar psi	25 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	5.00K	192 *7.6*	683 *26.9*		**12PR** *133A5*	**2060** *4540*	**2680** *5910*	**3110** *6855*
					14PR *133A5*	**2120** *4675*	**2755** *6075*	**3200** *7055*
					16PR *136A5*	**2240** *4940*	**2910** *6415*	**3380** *7450*
9.00 - 20	7.00	**259** *10.2*	**1038** *40.9*	16	**7.25** *105*	**3170** *6990*	**3965** *8740*	**6340** *13980*

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

UNDERGROUND MINING
CATEGORY : L5 S, SMOOTH EXTRA DEEP TREAD

SLICK 404

CUT RESISTANT
TYPE : TUBELESS / TUBE TYPE

- Specially designed for applications in underground mines, heavy duty forklifts and loaders.
- Extra deep tread, with specially formulated cut resistant rubber compound and reinforced sidewalls offer resistance to cut & wear and ensures high mileage.
- Flatter tread with large tread width provides high ground contact area for good traction on paved surface.

Size	Type	Rim Width in	Flange Height in	Unloaded dimension		Static Loaded Radius	Rolling Circum	PR	Load Carrying Capacity			
				SW	OD				Infl. Pressure bar/(psi)	10 kmph	15 kmph	25 kmph
				mm in	mm in	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*	**16**	**6.75** *98*	**5450** *12015*	**4740** *10450*	**4360** *9610*
								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*
14.00 - 24	Tubetype	**10.00**	**1.5**	375 14.8	1418 *55.83*	658 *25.9*	4197 *165.2*	**24**	**8.5** *125*	**9500** *20945*	**8260** *18210*	
14.00 - 25	Tubeless	**10.00**	**1.5**	375 14.8	1418 *55.83*	658 *25.9*	4197 *165.2*	**24**	**8.5** 125	**9500** *20945*	**8260** *18210*	
17.5-25	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	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.

EARTHMOVER TYRES

MULTI PURPOSE TYRE (MPT 602)

- "ALTURA" branded MPT 602 tyres are designed for on the road, off-the-road and OTR services.
- Specially designed wide, diagonal lugs offer self cleaning properties, resistance to side slip and excellent traction in all weather and service conditions, for on and off road driving.

Size	Rim Width in	Unloaded dimension		Loaded Static Radius	Rolling Circum	TYPE	PR	Infl. Press. bar psi	Load Carrying capacity		
		SW	OD						Load Index & Speed symbol	Max Speed (kmph)	Max Load (kg)
		mm	mm	mm	mm						
12.5 - 18	11.0	325	990	455	2910	TL	12	3.5	134 D	65	2120
10.00 - 20	7.5	280	1075	509	3255	TT	16	7.5	146 B	50	3000
12.5 - 20	11.0	325	1042	480	3065	TL	12	3.5	135 D	65	2180
14.5 - 20	11.0	358	1095	506	3240	TL	12	4.0	139 D	65	2430
405 / 70 - 20 (16.0 / 70 - 20)	13.0	405	1085	500	3190	TL	14	3.5	148 D	65	3150
							16	4.5	154 D	65	3785
405 / 70 - 24 (16.0 / 70 - 24)	13.0	405	1180	547	3470	TL	14	4.0	151 D	65	3450
							16	5.0	157 D	65	4140

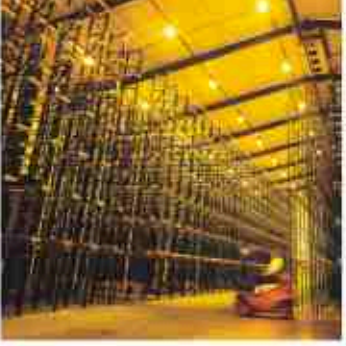
All tyres conform to ETRTO Standards

MULTI PURPOSE TYRE (MPT 800)

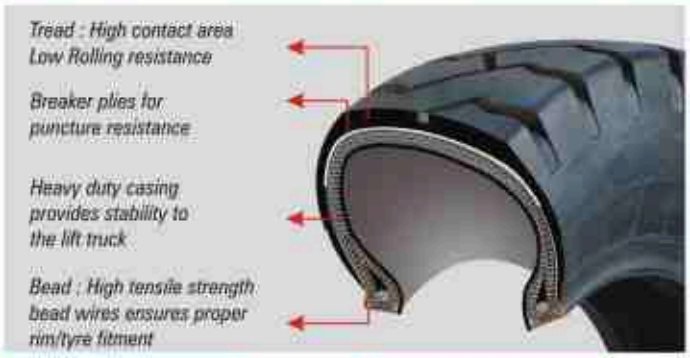
- "ALTURA" branded MPT 800 tyres are designed for agricultural use; industrial / construction sites and other on and off road applications.
- Extra strong, deep lugs with double angle design provides high traction, self cleaning properties and high surface contact area for better haulage in both on and off road service.
- Ideally suitable for telescopic handlers and all loader applications.

Size	Rim Width in	Unloaded dimension		Loaded Static Radius	Rolling Circum	TYPE	PR	Infl. Press. bar psi	Load Carrying capacity		
		SW	OD						Load Index & Speed symbol	Max Speed (kmph)	Max Load (kg)
		mm	mm	mm	mm						
405/ 70-20 (16.0/70-20)	13.0	405	1098	505	3225	TL	14	3.5	149 B	50	3250
405 / 70-24 (16.0/70 - 24)	13.0	405	1188	551	3490	TL	14	4.0	152 B	50	3550

All tyres conform to ETRTO Standards



INDUSTRIAL TYRES



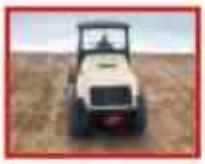
Tractor Drive wheel R3 and R4 tyres, Skid steer, Industrial Forklift, MPT and tyres for container handling form the range. Specially designed tread patterns, superior compound formulations and strong nylon casings ensures optimum tread wear, traction and trouble-free long service life.

Tyres can also be custom made to cater to the exact need of the customers.


Fork lift Trucks


Skid Steer Loaders


Industrial Tractor


Road Compactor

INDUSTRIAL TYRES

INDUSTRIAL FORKLIFT

ELEVETA

TUBETYPE

- Specially designed for heavy duty service on forklift trucks, material handling and mining equipments.
- Alternate continuous lug with high contact area provides maximum stability and load distribution.
- Tough casing provides excellent durability, while superior tread compound provides greater resistance to tear and cuts.

Size	Rim	Unloaded dimension SW	Unloaded dimension OD	Static Loaded Radius	Rolling Circum	PR Load Index	Infl. press	Load Carrying capacity, kg (lbs) Speed, km/h (mph) Lift-truck Steering wheel		Lift-truck load wheel		Side Loaders			Other vehicles		
		mm in	mm in	mm in	mm in	Speed Sym	bar psi	25 16	35 22	25 16	35 22	Static	25 16	35 22	10 6	25 16	50 31
6.00 - 9	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
						12PR 121A5	10 145	**1450** 3195	**1340** 2955	**1885** 4155	**1810** 3990	**2190** 4830	**1450** 3195	**1340** 2955	**1885** 4155	**1450** 3195	**1220** 2690
6.90 - 9	5.50K	175 6.9	545 21.5	247 9.7	1612 63.5	**10PR** 116A5	8.6 125	**1250** 2750	**1160** 2560	**1630** 3590	**1560** 3440	**1890** 4160	**1250** 2750	**1160** 2560	**1630** 3580	**1250** 2750	**1050** 2310
						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
6.50 - 10	5.00F	177 7.0	588 23.1	267 10.5	1740 68.5	**12PR** 125A5	9.0 130	**1650** 3640	**1525** 3360	**2145** 4730	**2060** 4540	**2490** 5490	**1650** 3640	**1525** 3360	**2145** 4730	**1650** 3640	**1385** 3055
						14PR 128A5	10.0 145	**1800** 3970	**1665** 3670	**2340** 5160	**2250** 4960	**2720** 5995	**1800** 3970	**1665** 3670	**2340** 5160	**1800** 3970	**1510** 3330
7.00 - 12	5.00K	192 7.6	683 26.9	311 12.2	2027 79.8	**12PR** 133A5	8.5 123	**2060** 4540	**1905** 4200	**2680** 5910	**2575** 5675	**3110** 6855	**2060** 4540	**1905** 4200	**2680** 5910	**2060** 4540	**1730** 3815
						14PR 134A5	9.0 131	**2120** 4675	**1960** 4320	**2755** 6075	**2650** 5840	**3200** 7055	**2120** 4675	**1960** 4320	**2755** 6075	**2120** 4675	**1780** 3925
						16PR 136A5	10.0 145	**2240** 4940	**2070** 4565	**2910** 6415	**2800** 6175	**3380** 7450	**2240** 4940	**2070** 4565	**2910** 6415	**2240** 4940	**1880** 4145
8.25 - 15	6.5	236 9.3	847 33.3	386 15.2	2515 99	**12PR** 146A5	7.0 104	**3000** 6610	**2780** 6120	**3900** 8590	**3750** 8260	**4530** 9980	**3000** 6610	**2780** 6120	**3900** 8590	**3000** 6610	**2520** 5550
						14PR 149A5	8.3 120	**3250** 7160	**3010** 6630	**4225** 9315	**4060** 8940	**4910** 10810	**3250** 7160	**3010** 6630	**4225** 9315	**3250** 7160	**2730** 6010
						16PR 152A5	9.25 134	**3550** 7825	**3285** 7240	**4615** 10175	**4440** 9790	**5360** 11815	**3550** 7825	**3285** 7240	**4615** 10175	**3550** 7825	**2980** 6570

All tyres conform to ETRTO Standards

SLICK 413

- Specially designed for port applications as well as in mining operations.

Size	Rim	Unloaded dimension SW	Unloaded dimension OD	Static Loaded Radius	Rolling Circum	PR Load Index	Infl. press	Recommend load, kg (lbs) Speed, km/h (mph) Lift-truck Steering wheel		Lift-truck load wheel		Side Loaders			Other vehicles		
		mm in	mm in	mm in	mm in	Speed Sym	bar psi	25 16	35 22	25 16	35 22	Static	25 16	35 22	10 6	25 16	50 31
7.00 - 12	5.00K	192 7.6	683 26.9	311 12.2	2027 79.8	**12PR** 133A5	8.5 123	**2060** 4540	**1905** 4200	**2680** 5910	**2575** 5675	**3110** 6855	**2060** 4540	**1905** 4200	**2680** 5910	**2060** 4540	**1730** 3815
						14PR 134A5	9.0 131	**2120** 4675	**1960** 4320	**2755** 6075	**2650** 5840	**3200** 7055	**2120** 4675	**1960** 4320	**2755** 6075	**2120** 4675	**1780** 3925
						16PR 136A5	10.0 145	**2240** 4940	**2070** 4565	**2910** 6415	**2800** 6175	**3380** 7450	**2240** 4940	**2070** 4565	**2910** 6415	**2240** 4940	**1880** 4145

All tyres conform to ETRTO Standards

SKID STEER

GRIP MASTER LOADER

TUBELESS

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

Size	Rim Width in	Unloaded dimension		Loaded Static Radius	Rolling Circum -ference	Ply Rating	Load Carrying capacity, kg (lbs)				
		SW	OD				Infl. press bar psi	Speed, km/h (mph)			
		mm in	mm in	mm in	mm in			Static	10 5	15 10	30 20
10-16.5	8.25	264 10.4	773 30.4	358 14.1	2320 91.3	8PR	4.1 60	2970 6550	1880 4145	1485 3275	1280 2820
						10PR	5.2 75	3375 7440	2135 4705	1685 3715	1450 3195
12-16.5	9.75	307 12.1	831 32.73	383 15.1	2490 98.0	10PR	4.5 65	4015 8850	2540 5600	2005 4420	1725 3800
						12PR	5.5 80	4525 9975	2865 6315	2260 4980	1950 4300

All tyres conform to T & R A Standards

GRIP MASTER LOADER H.D.

TUBELESS

- Premium tyre with increased tread depth and extra thick sidewall for improved traction and puncture resistance.
- Tough nylon casing provides excellent durability whereas a superior tread compound provides longer life resistance to chip and tear.
- Specially designed Rim Guard provides greater protection of rim flange area against damage.

Size	Rim Width in	Unloaded dimension		Loaded Static Radius	Rolling Circum -ference	Ply Rating	Load Carrying capacity, kg (lbs)				
		SW	OD				Infl. press bar psi	Recommended load, kg (lbs)			
								Speed, km/h (mph)			
		mm in	mm in	mm in	mm in			Static	10 5	15 10	30 20
10-16.5 HD	8.25	264 10.4	773 30.4	358 14.1	2320 91.3	8PR	4.1 60	2970 6550	1880 4145	1485 3275	1280 2820
						10PR	5.2 75	3375 7440	2135 4705	1685 3715	1450 3195
12-16.5 HD	9.75	307 12.1	831 32.73	383 15.1	2490 98.0	10PR	4.5 65	4015 8850	2540 5600	2005 4420	1725 3800
						12PR	5.5 80	4525 9975	2865 6315	2260 4980	1950 4300

All tyres conform to T & RA Standards


Tyrock Super

INDUSTRIAL TRACTOR (R 4)

DRIVE WHEEL R4

TUBETYPE / TUBELESS

- Drive wheel tyres for industrial tractors with extra wide lugs gives excellent resistance to tearing and cracking.
- A tough nylon casing and a special tread compound gives best results on industrial use as well as off the road and construction sites.


Tyrock 80

Size	Rim	Unloaded dimension		Static Loaded Radius	Rolling Circum -ference	PR load Index	Load Carrying capacity, kg (lbs) Speed km/h (mph)							
							Industrial Use					Agricultural Use		
							Infl Pr.	Constant load		Cyclic Application		Infl Pr.	Road transport	
		SW	OD											
		mm in	mm in	mm in	mm in	Speed Symbol	bar psi	20 12	40 25	20 12	40 25	Bar psi	20 12	40 25
16.9 - 28	W15L W14L	429 16.9	1410 55.5	641 25.2	4179 164.5	6PR 145A8	1.5 22	2760 6080	2530 5570	3110 6850	2530 5570	1.5 22	2720 5990	2030 4470
							1.7 25	2960 6520	2720 5990	3350 7380	2720 5990	1.6 23	2810 6190	2100 4630
							1.9 28	3160 6960	2900 6390	3570 7860	2900 6390	1.7 25	2920 6430	2180 4800
						8PR 152A8	1.8 26	3050 6720	2800 6170	3440 7580	2800 6170	1.8 26	3060 6740	2280 5020
							2 29	3250 7160	2980 6560	3670 8080	2980 6560	1.9 28	3160 6960	2360 5200
						10PR 148A8	2.2 32	3430 7560	3150 6940	3870 8520	3150 6940	2 29	3260 7180	2430 5350
							2.3 33	3600 7930	3300 7270	4060 8940	3300 7270	2.1 30	3380 7440	2520 5550
							2.4 35	3700 8150	3390 7470	4170 9190	3390 7470	2.2 32	3470 7640	2590 5700
						12PR 152A8	2.6 38	3870 8520	3550 7820	4370 9630	3550 7820	2.4 35	3650 8040	2725 6000
							2.7 39	3970 8740	3640 8020	4480 9870	3640 8020	2.5 36	3770 8300	2810 6190
							2.8 41	4050 8920	3720 8190	4580 10090	3720 8190	2.6 38	3850 8480	2870 6320
						14PR 155A8	3 44	4220 9300	3875 8540	4770 10510	3875 8540	2.8 41	4020 8850	3000 6610
19.5L - 24 TYROCK 80	W17L	495 19.5	1335 52.6	592 23.3	3880 152.7	12PR 151A8	2.3 33		3450 7600		3450 7600	2.1 30		2650 5840

All tyres conform to ETRTO Standards


Tyrock

INDUSTRIAL TRACTOR R 4

TYROCK

- Tread pattern designed for very good traction and self cleaning properties.
- Specially designed for industrial applications for front wheels of Back Hoe Loaders, Wheel Loaders etc.
- Also suitable for both Free Rolling & Drive wheel Applications.

Size	Rim inches	Outer Diameter mm	Section Width mm	Static loaded radius mm	Rolling Circum -ference mm	PR	Inflation Pressure bar	Free Rolling Wheel		Drive Wheel	
								Load Index Speed Symbol	Load Capacity (Kg)	Load Index Speed Symbol	Load Capacity (Kg)
12.5 / 80 - 18	9.0	988	308	465	2900	10	3.1	135 A8	2180	123 A8	1550
						12	3.7	138 A8	2360	125 A8	1650

All tyres conform to ETRTO Standards

MULTI PURPOSE TYRE (MPT 800)

- "ALTURA" branded MPT 800 tyres are designed for agricultural use, industrial / construction sites and other on and off road applications.
- Extra strong, deep lugs with double angle design provides high traction, self cleaning properties and high surface contact area for better haulage in both on and off road service.
- Ideally suitable for telescopic handlers and all loader applications.

Size	Rim Width in	Unloaded dimension		Loaded Static Radius	Rolling Circum	TYPE	PR	Infl. Press bar psi	Load Carrying capacity		
		SW	OD						Load Index & Speed symbol	Max Speed (kmph)	Max Load (kg)
		mm	mm	mm	mm						
405 / 70 -20 (16.0 / 70 - 20)	13.0	405	1098	505	3225	TL	14	**3.5**	**149 B**	**50**	**3250**
405 / 70 - 24 (16.0 / 70 - 24)	13.0	405	1188	551	3490	TL	14	**4.0**	**152 B**	**50**	**3550**

All tyres conform to ETRTO Standards

MULTI PURPOSE TYRE (MPT 602)

- "ALTURA" branded MPT 602 tyres are designed for on the road, off-the-road and OTR services.
- Specially designed wide, diagonal lugs offer self cleaning properties, resistance to side slip and excellent traction in all weather and service conditions, for on and off road driving.

Size	Rim Width in	Unloaded dimension		Loaded Static Radius	Rolling Circum	TYPE	PR	Infl. Press bar psi	Load Carrying capacity		
		SW	OD						Load Index & Speed symbol	Max Speed (kmph)	Max Load (kg)
		mm	mm	mm	mm						
12.5 - 18	11.0	325	990	455	2910	TL	12	3.5	134 D	65	2120
10.00 - 20	7.5	280	1075	509	3255	TT	16	7.5	146 B	50	3000
12.5 - 20	11.0	325	1042	480	3065	TL	12	3.5	135 D	65	2180
14.5 - 20	11.0	358	1095	506	3240	TL	12	4.0	139 D	65	2430
405 / 70 - 20 (16.0 / 70 - 20)	13.0	405	1085	500	3190	TL	14	3.5	148 D	65	3150
							16	4.5	154 D	65	3785
405 / 70 - 24 (16.0 / 70 - 24)	13.0	405	1180	547	3470	TL	14	4.0	151 D	65	3450
							16	5.0	157 D	65	4140

All tyres conform to ETRTO Standards

CATEGORY : L4 S (IND)

SLICK 431

- 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	Rim Width in	Flange Height in	Unloaded dimension SW mm / in	Unloaded dimension OD mm / in	Static Loaded Radius mm / in	Rolling Circum mm / in	PR	Load Capacity for Industrial applications (Reach Stacker) Infl. Pressure bar/(psi)	25 kmph Max Load kgs/(lbs)	10 kmph Max Load kgs/(lbs)	5 kmph Max Load kgs/(lbs)	1 kmph Max Load kgs/(lbs)	Static Max Load kgs/(lbs)
16.00 - 25	**11.25**	2	432 *17.0*	1548 *60.94*	715 *28.15*	4580 *180.3*	**28**	**9** *131*	**14375** *31690*	**15525** *34230*	**16675** *36760*	**18400** *40560*	**20700** *45640*
							32	**10** *145*	**15625** *34450*	**16875** *37200*	**18125** *39960*	**20000** *44090*	**22500** *49605*

CATEGORY : L5 S INDUSTRIAL, SMOOTH EXTRA DEEP TREAD

SLICK 404

TYPE : TUBELESS / TUBE TYPE

- Designed for heavy duty forklifts and container handlers (reach stackers) 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 tread width provides high ground contact area for good traction on paved ground.

Size	Rim Width in	Flange Height in	Unloaded dimension SW mm / in	Unloaded dimension OD mm / in	Static Loaded Radius mm / in	Rolling Circum mm / in	PR	Load Capacity for Industrial applications (Reach Stacker) Infl. Pressure bar/(psi)	25 kmph Max Load kgs/(lbs)	10 kmph Max Load kgs/(lbs)	5 kmph Max Load kgs/(lbs)	1 kmph Max Load kgs/(lbs)	Static Max Load kgs/(lbs)
12.00 - 20	**8.5**	-	**315** *12.4*	**1163** *45.8*	**538** *21.2*	**3433** *135.2*	**20**	**10** *145*	**7690** *16950*	**8300** *18300*	**8920** *19665*	**9840** *21690*	**11070** *24400*
14.00 - 24	**10.00**	1.5	375 *14.8*	1418 *55.83*	658 *25.9*	4197 *165.2*	**28**	**10** *145*	**12500** *27560*	**13500** *29760*	**14500** *31965*	**16000** *35275*	**18000** *39685*
18.00 - 25	**13.00**	2.5	498 *19.6*	1673 *65.9*	768 *30.2*	4952 *195.0*	**32**	**9** *130*	**18750** *41335*	**20250** *44645*	**21750** *47950*	**24000** *52910*	**27000** *59525*
							40	**10.5** *150*	**21250** *46845*	**22950** *50595*	**24650** *54345*	**27200** *59965*	**30600** *67460*

All tyres conform to T & RA and ETRTO Standards

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

CATEGORY : E3 (IND)

GRIPMASTER ND

TYPE : TUBELESS / TUBE TYPE

- Specially designed for heavy duty forklifts and container handlers (reach stackers) operating on hard improved surfaces.
- Specially formulated extra deep tread, reinforced sidewalls offer superior resistance to wear & damage and ensures high mileage.
- Flatter tread with large tread width provides very high ground contact area for good traction on paved ground.

14.00 - 24

Size	Rim Width in	Flange Height in	Unloaded dimension SW mm / in	Unloaded dimension OD mm / in	Static Loaded Radius mm / in	Rolling Circum mm / in	PR	Load Capacity for Industrial applications (Reach Stacker) Infl. Press bar/(psi)	25kmph Max Load kgs /(lbs)	10kmph Max Load kgs /(lbs)	5kmph Max Load kgs /(lbs)	1kmph Max Load kgs /(lbs)	static Max Load kgs /(lbs)
14.00 - 24	**10.00**	**1.5**	385 *15.2*	1368 *53.9*	630 *24.8*	4050 *159.4*	**28**	**10** *145*	**12500** *27560*	**13500** *29760*	**14500** *31965*	**16000** *35275*	**18000** *39685*
18.00 - 25	**13.00**	**2.5**	498 *19.6*	1615 *63.6*	738 *29.1*	4780 *188.2*	**40**	**10** *145*	**21250** *46845*	**22950** *50595*	**24650** *54345*	**27200** *59965*	**30600** *67460*

Drive Wheel - R3

C 305

TUBETYPE / TUBELESS

- Specially designed multipurpose tractor drive wheel tyre, provides high floatation on soft soil, orchards etc.
- Also ideal for on-the-road, industrial and road construction equipments.
- Strong nylon casing, rugged design, high tread depth ensures long service life.

Size	Rim	Unloaded dimension SW mm / in	Unloaded dimension OD mm / in	Static Loaded Radius mm / in	Rolling Circum-ference mm / in	PR Load Index Speed Symbol	Infl. press Bar / Psi	Load Carrying Capacity, kg (lbs) Speed, km/h (mph) Not high and sustained torque, Road transport: Static	10 / 6	20 / 12	30 / 19	40 / 25	50 / 31	Field operation Low Torque: 10 / 6	20 / 12	High Tor: 10 / 6
23.1 - 26	DW20	587 23.1	1560 61.4	690 27.2	4545 178.9	8PR 145A8	**0.9** *13*	**5930** *13060*	**3870** *8520*	**3170** *6980*	**2760** *6080*	**2580** *5680*	**2350** *5180*	**3610** *7950*	**3100** *6830*	**2760** *6080*
							1 *15*	**6300** *13880*	**4110** *9050*	**3370** *7420*	**2930** *6450*	**2740** *6040*	**2490** *5480*	**3840** *8460*	**3290** *7250*	**2930** *6450*
							1.1 *16*	**6670** *14690*	**4350** *9580*	**3570** *7860*	**3100** *6830*	**2900** *6390*	**2640** *5810*	**4060** *8940*	**3480** *7670*	**3100** *6830*
						10PR 149A8	**1.2** *17*	**6830** *15040*	**4460** *9820*	**3650** *8040*	**3180** *7000*	**2970** *6540*	**2700** *5950*	**4160** *9160*	**3560** *7840*	**3180** *7000*
							1.3 *19*	**7150** *15750*	**4670** *10290*	**3830** *8440*	**3330** *7330*	**3110** *6850*	**2830** *6230*	**4350** *9580*	**3730** *8220*	**3330** *7330*
							1.4 *20*	**7480** *16460*	**4880** *10750*	**4000** *8810*	**3480** *7670*	**3250** *7160*	**2960** *6520*	**4550** *10020*	**3900** *8590*	**3480** *7670*
						12PR 153A8	**1.5** *22*	**7800** *17180*	**5090** *11210*	**4170** *9190*	**3630** *8000*	**3390** *7470*	**3080** *6780*	**4750** *10460*	**4070** *8960*	**3630** *8000*
							1.7 *25*	**8400** *18500*	**5480** *12070*	**4490** *9890*	**3910** *8610*	**3650** *8040*	**3320** *7310*	**5110** *11260*	**4380** *9650*	**3910** *8610*
						16PR 159A8	**1.9** *28*	**8990** *19800*	**5870** *12930*	**4810** *10590*	**4180** *9210*	**3910** *8610*	**3560** *7840*	**5470** *12050*	**4690** *10330*	**4180** *9210*
							2.1 *30*	**9550** *21040*	**6230** *13720*	**5100** *11230*	**4440** *9780*	**4150** *9140*	**3780** *8330*	**5810** *12800*	**4980** *10970*	**4440** *9780*
							2.3 *33*	**10060** *22160*	**6560** *14450*	**5380** *11850*	**4680** *10310*	**4375** *9640*	**3980** *8770*	**6130** *13500*	**5250** *11560*	**4680** *10310*

All tyres conform to ETRTO Standards

INDUSTRIAL TYRES

GRIPMASTER XL

CATEGORY : E4 (IND)

GRIPMASTER XL

TYPE : TUBELESS

- Designed for heavy duty jobs, the entire family of GRIP MASTER tyres can support heavy loads at extreme working conditions.
- The specially designed non directional tread ensures high hourage even on the most abrasive surfaces.
- A special heat, cut and weather resistant compound makes it capable to withstand cuts, snags and bruises.
- A heavy duty nylon casing increases strength and durability and promotes multiple retreads to get an excellent return on your investment.
- Large tread width provides very high ground contact area for good traction on paved surface.
- Ideal for severe heavy duty applications in mining, quarrying and Container Handling operations on hard, improved surfaces (eg. Concrete, runaway asphalt).

Size	Rim Width in	Flange Height in	Unloaded dimension		Static Loaded Radius	Rolling Circum	PR	Load Capacity for Industrial applications (Reach Stacker)					
			SW	OD					25kmph	10kmph	5kmph	1kmph	static
			mm in	mm in	mm in	mm in		Infl. Press. bar/(psi)	Max Load kgs /(lbs)	Max Load kgs /(lbs)	Max Load kgs /(lbs)	Max Load kgs /(lbs)	Max Load kgs /(lbs)
18.00 - 25	**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*

All tyres conform to T & RA and ETRTO Standards

CATEGORY : E4 (IND)

ROCK-XL

TYPE : TUBELESS

- Extra deep tread and a robust muscular casing makes this tyre ideal for severe heavy duty applications in mining, quarrying' rock excavation as well as Container handling operations.
- A specially formulated heat, cut & abrasion resistant compound resists cuts and snags and provide optimum wear in a variety of operating conditions and ensures high hourage even on the most abrasive surfaces.
- Large tread width with high land to void ratio provides high ground contact area for good traction on paved surface.
- Ideal for container handling / transporting applications on hard improved surfaces (eg. concrete, runaway asphalt).

Size	Rim Width in	Flange Height in	Unloaded dimension		Static Loaded Radius	Rolling Circum	PR	Load Capacity for Industrial applications (Reach Stacker)					
			SW	OD					25kmph	10kmph	5kmph	1kmph	static
			mm in	mm in	mm in	mm in		Infl. Press. bar/(psi)	Max Load kgs /(lbs)	Max Load kgs /(lbs)	Max Load kgs /(lbs)	Max Load kgs /(lbs)	Max Load kgs /(lbs)
18.00 - 33	**13**	**2.5**	498 *19.6*	1877 *73.9*	866 *34.1*	5556 *218.7*	**36**	**10.2** *148*	**23125** *50980*	**24975** *55060*	**26825** *59140*	**29600** *65255*	**33300** *73410*
							40	**11.4** *165*	**25000** *55000*	**27000** *59400*	**29000** *63800*	**32000** *70400*	**36000** *79200*
18.00 - 25	**13**	**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

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

CATEGORY : INDUSTRIAL

ROCK-XL

TYRE SIZE : 12.00 - 24
TYPE: TUBETYPE

- Designed for mining, logging, portcontainer handlers), but can also be used for intermittent hihgway service.
- Specially formulated tread offers good tracton & high mileage, superior resistance to wear & damage.
- Tread pattern is designed to carry heavy loads on all type of surfaces such as rock, mud, hihgways and hard improved surfaces like concrete or runway asphalt.
- Large tread width with high land to void ratio provides high ground contact area for good traction on paved surface.

Size	Rim Width in	Flange Height in	Unloaded dimension		Static Loaded Radius	Rolling Circumference	PR	Load Capacity for Industrial applications (on hard improved surfaces)					
			SW	OD				Infl. Pressure bar(psi)	25kmph	10kmph	5kmph	1kmph	static
			mm in	mm in	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	**8.50**	**1.3**	**328** *12.9*	**1257** *49.5*	**590** *23.2*	**3720** *146.5*	**20**	**9.9** *144*	**8630** *19025*	**9320** *20545*	**10000** *22045*	**11040** *24340*	**12420** 27380

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

CATEGORY : E3 (IND)

ROCK-XL

TYPE: TUBELESS

- Specially designed for heavy duty forklifts and container handlers operating on hard improved surfaces.
- Self cleaning sturdy lugs are designed for better traction at the same time more rubber in the footprint offers better penetration resistance and excellent mileage.
- Flatter tread with large tread width provides very high ground contact area for good traction on paved ground.

Size	Rim Width in	Flange Height in	Unloaded dimension		Static Loaded Radius	Rolling Circumference	PR	Load Capacity for Industrial applications (on hard improved surfaces)					
			SW	OD				Infl. Pressure bar(psi)	25kmph	10kmph	5kmph	1kmph	static
			mm in	mm in	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	**11.25**	**2.0**	**444** *17.5*	**1485** *58.5*	**682** *26.9*	**4418** *173.9*	**28**	**9** *131*	**14375** *31690*	**15525** *34230*	**16675** *36760*	**18400** *40560*	**20700** 45640
							32	**10** *145*	**15625** *34450*	**16875** *37200*	**18125** *39960*	**20000** *44090*	**22500** 49605
21.00 - 25	**15**	**3.0**	**585** 23.0	**1759** *69.3*	**800** *31.5*	**5140** *202.4*	**40**	**10** *144*	**25000** *55000*	**27000** *59400*	**29000** *63800*	**32000** *70400*	**36000** *79200*

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

CATEGORY : INDUSTRIAL

GRIP MASTER

TYRE SIZE : 12.00 - 20 20PR

TYPE : TUBETYPE

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

Size	Rim Width in	Unloaded dimension		Static Loaded Radius	Rolling Circumference	PR	Load Capacity for Industrial applications (on hard improved surfaces)					
		SW	OD					25kmph	10kmph	5kmph	1kmph	static
		mm in	mm in	mm in	mm in		Infl Pressure bar/(psi)	Max Load kgs /(lbs)	Max Load kgs /(lbs)	Max Load kgs /(lbs)	Max Load kgs /(lbs)	Max Load kgs /(lbs)
12.00 - 20	**8.50**	**320** *12.6*	**1150** *45.3*	**538** *21.2*	**3409** *134.2*	**20**	**8.25** *120*	**5185** *11430*	**6100** *13450*	**8920** *19665*	**9840** *21690*	**9760** *21520*

All tyres conform to T & RA and ETRTO Standards

FARM TYRES

CEAT Farm tyre range comprises of Drive wheel (R1, R3), Steering wheel (F2), Flotation, Traction 1 - Implement and MPT tyres.

Tyres can also be custom made to cater to the exact need of the customers.

Drive wheel tractor

Soil compactor

Combine Harvester

Forage Harvester

Drive Wheel - R1

SAMRAT

TUBETYPE

- Tractor drive wheel tyre with strong lugs for heavy duty services.
- Specially designed deep lugs with 50° angle provides high traction, self cleaning properties and long service life under hardest working conditions, including on-the-road services.
- A stong nylon casing provides excellent stability and guards against mechanical failures. Also suitable for industrial / construction applications.

Size	Rim	Unloaded dimension		Static Loaded Radius	Rolling Circum-ference	PR Load Index	Infl. press	Load Carrying Capacity, kg (lbs)								
								Speed, km/h (mph)								
								Not high and sustained torque: Road transport						Field operation		
														Low Torque		High Torque
		SW	OD													
		mm in	mm in	mm in	mm in	Speed Symbol	Bar Psi	Static	10 6	20 12	30 19	40 25	50 31	10 6	20 12	10 6
16.9 - 30	W15L	429 *16.9*	1485 *58.5*	667 *26.3*	4369 *172*	**10PR** *141A8*	2.1 *30*	**5920** *13040*	**3860** *8500*	**3170** *6980*	**2760** *6080*	2575 *5670*	**2340** *5150*	**3610** *7950*	**3090** *6810*	**2760** *6080*

All tyres conform to ETRTO Standards
Tubeless Can be made on request

Drive Wheel - R1

SAMRAT PLUS

TUBETYPE

- Tractor drive wheel tyre with strong lugs for heavy duty services.
- Specially designed deep lugs with 50° angle provides high traction, self cleaning properties and long service life under hardest working conditions, including on-the-road services.
- A stong nylon casing provides excellent stability and guards against mechanical failures. Also suitable for industrial / construction applications.

Size	Rim	Unloaded dimension		Static Loaded Radius	Rolling Circum-ference	PR Load Index	Infl. press	Load Carrying Capacity, kg (lbs)								
								Speed, km/h (mph)								
								Not high and sustained torque: Road transport						Field operation		
														Low Torque		High Torque
		SW	OD													
		mm in	mm in	mm in	mm in	Speed Symbol	Bar Psi	Static	10 6	20 12	30 19	40 25	50 31	10 6	20 12	10 6
16.9 - 28	W15L	429 *16.9*	1435 *56.5*	645 *25.4*	4222 *166.2*	**12PR** *152A8*	2.4 *35*	**6270** *13825*	**4090** *9015*	**3350** *7385*	**2915** *6425*	2725 *6010*	**2480** *5470*	**3815** *8410*	**3270** *7210*	**2915** *6425*

All tyres conform to ETRTO Standards
Tubeless Can be made on request

Drive Wheel - R1

SAMRAT SUPER

TUBETYPE

- A heavy duty premium Tractor drive wheel tyre with extra strong, deep lugs.
- Double angle design provides high traction, self cleaning properties and more surface contact area for better haulage in both on the road and off the road services.
- A strong nylon casing provides excellent stability and guards against mechanical failures.
- Also suitable for industrial / construction applications.

Size	Rim	Unloaded dimension		Static Loaded Radius	Rolling Circum -ference	PR Load Index	Infl. press	Load Carrying Capacity, kg (lbs)								
								Speed, km/h (mph)								
								Not high and sustained torque; Road transport						Field operation		
														Low Torque		High Torque
		mm in	mm in	mm in	mm in	Speed Symbol	Bar Psi	Static	10 6	20 12	30 19	40 25	50 31	10 6	20 12	10 6
12.4 - 24	W11 W 10 W10H	315 12.4	1160 45.7	533 21.0	3410 134.3	8PR 121A8	2.3 33	3340 7360	2180 4800	1780 3920	1550 3410	1450 3190	1320 2910	2030 4470	1740 3830	1550 3410
12.4 - 28	W11	315 12.4	1260 49.6	583 23	3717 146.3	8PR 123A8	2.3 33	3570 7860	2330 5130	1910 4210	1660 3660	1550 3410	1410 3110	2170 4780	1860 4100	1660 3660
13.6 - 28	W12	345 13.6	1310 51.6	596 23.5	3885 153	10PR 130A8	2.5 36	4370 9635	2850 6285	2335 5150	2035 4485	1900 4190	1730 3815	2660 5865	2280 5025	2035 4485
14.9-28	W13 W12	378 14.9	1365 53.7	639 25.2	4095 161.2	12PR 130A8	2.3 33	4875 10750	2970 6550	2545 5610	2120 4675	1910 4210	1740 3835	2865 6315	2350 5180	2045 4510
18.4 - 30	W16L	467 18.4	1550 61	693 27.3	4546 179	14PR 152A8	2.7 39	8170 18000	5330 11740	4370 9630	3800 8370	3550 7820	3230 7110	4970 10950	4260 9380	3800 8370

All tyres conform to ETRTO Standards
Tubeless Can be made on request

Drive Wheel - R2

AAYUSHMAAN - RICE SPECIAL

TUBETYPE

- Extra Deep Tread specially designed for superior grip in muddy soil.
- Deep lugs help in reducing slippage excellent grip in muddy soil , reduces slippage
- A stong nylon casing provides excellent stability and guards against mechanical failures.

Size	Rim	Unloaded Dimension		Static Loaded Radius	Rolling Circum -ference	PR Load Index	Infl. Pressure	Load Carrying Capacity - Kg	Tread Depth
		SW	OD						
		mm in	mm in	mm in	mm in	Speed Symbol	Bar Psi	30 19	mm
12.4 - 28	W11	325 12.8	1293 50.9	596 23.5	3815 150.2	12PR 125 A6	2.5 36	1650 3640	66

All tyres conform to ETRTO Standards

FARM TYRES

Drive Wheel - R1

IRR-O-GATOR

TUBETYPE / TUBELESS

- Tractor drive wheel tyre, designed to provide high traction, self cleaning properties and long service life under tough working conditions.
- A strong nylon casing provides excellent stability and safety to the operator.

Size	Rim	Unloaded dimension		Static Loaded Radius	Rolling Circum-ference	PR Load Index	Infl. press	Load Carrying Capacity, kg (lbs)							
								Speed, km/h (mph)							
								Not high and sustained torque: Road transport				Field operation			
													Low Torque		High Tor
		mm in	mm in	mm in	mm in	Speed Symbol	Bar Psi	Static	10 6	20 12	30 19	40 25	10 6	20 12	10 6
11.2 - 24	W10 W10H	284 *11.2*	1105 *43.5*	512 *20.2*	3260 *128.3*	**6PR** *110A8*	1.8 *26*	**2440** *5370*	**1590** *3500*	**1300** *2860*	**1130** *2490*	**1060** *2330*	**1480** *3260*	**1270** *2800*	**1130** *2490*
						8PR *116A8*	2.4 *35*	**2880** *6340*	**1880** *4140*	**1540** *3390*	**1340** *2950*	**1250** *2750*	**1750** *3850*	**1500** *3300*	**1340** *2950*

All tyres conform to ETRTO & T & RA Standards

TRACTOR FRONT (F - 2)

SAMRAAT

TUBETYPE

- 3 Rib front wheel tyre provides easy steering for general farming purposes.
- Strong nylon casing and high grade compounds ensures long lasting, quality performance.

Size	Rim	Unloaded dimension SW	Unloaded dimension OD	Static Loaded Radius	Rolling Circum	PR	Load Index	Infl. press	Load Carrying capacity, kg (lbs) Speed, km/h (mph) 10 6	15 9	20 12	25 16	30 19	35 22	40 25
		mm in	mm in	mm in	mm in		Speed Symbol	Bar Psi							
5.50 - 16	4.00E	150 5.9	710 28	332 13.1	2142 84.3	4PR	78A6	2.5	640	610	575	490	425	385	340
							71A8	36	1410	1345	1270	1080	935	850	750
						6PR	86A6	3.7	795	760	715	610	530	475	425
							78A8	54	1755	1675	1575	1345	1170	1045	935
6.00 - 16	4.50E	165 6.5	735 28.9	341 13.4	2207 86.9	6PR	88A6	3.3	840	800	755	645	560	505	450
							80A8	46	1850	1765	1665	1420	1234	1115	990
						8PR	94A6	4.5	1005	960	905	770	670	605	530
							86A8		2215	2115	1995	1700	1475	1335	1180
6.50 - 16	4.50E	175 6.9	760 29.9	353 13.9	2284 89.9	6PR	91A6	3.1	925	880	830	710	615	555	485
							83A8	45	2040	1940	1830	1565	1355	1225	1075
						8PR	96A8	4.2	1065	1015	960	815	710	640	570
							88A6	61	2350	2240	2115	1800	1565	1410	1235
7.50 - 16	5K	205 8.1	805 31.7	370 14.6	2403 94.6	6PR	98A6	2.8	1125	1075	1015	865	750	675	600
							91A8	41	2480	2370	2240	1905	1655	1490	1325
						8PR	103A6	3.7	1315	1250	1180	1005	875	790	700
							96A8	54	2900	2755	2066	2215	1930	1740	1545
6.50 - 20	4.50E	175 6.9	865 34.1	404 15.9	2608 102.7	6PR	97A6	3.1	1095	1045	985	840	730	655	580
							89A8	45	2415	2305	2170	1850	1610	1445	1280

(1) 6PR and above with a 25% increase in inflation pressure.
(2) In case where a front-end loader is fitted on the tractor, +100% applies.
All tyres conform to ETRTO Standards

TRACTOR FRONT (F - 2)

SAMRAAT SUPER

TUBETYPE

- 4 rib front wheel tyre, ideally suitable for both farming and haulage operations.
- Specially designed rugged shoulder bars provide extra protection to sidewall, whereas wider tread provides greater contact to surface and hence longer life.

Size	Rim	Unloaded dimension SW	Unloaded dimension OD	Static Loaded Radius	Rolling Circum	PR	Load Index	Infl. press	Load Carrying capacity, kg (lbs) Speed, km/h (mph) 10 6	15 9	20 12	25 16	30 19	35 22	40 25
		mm in	mm in	mm in	mm in		Speed Symbol	Bar Psi							
6.00 - 16	4.50E	165 6.5	735 28.9	341 13.4	2207 86.9	6PR	88A6	3.3	840	800	755	645	560	505	450
							80A8	48	1850	1765	1665	1420	1234	1115	990
						8PR	94A6	4.5	1005	960	905	770	670	605	530
							86A8	65	2215	2115	1995	1700	1475	1335	1180

(1) 6PR and above with a 25% increase in inflation pressure.
(2) In case where a front-end loader is fitted on the tractor, +100% applies.
All tyres conform to ETRTO Standards

FARM TYRES

DRIVE WHEEL - R3
C 305

TUBETYPE / TUBELESS

- Specially designed multipurpose tractor drive wheel tyre, provides high floatation on soft soil, orchards etc.
- Also ideal for on-the-road, industrial and road construction equipments.
- Strong nylon casing, rugged design, high tread depth ensures long service life.

Size	Rim	Unloaded dimension SW	Unloaded dimension OD	Static Loaded Radius	Rolling Circum-ference	PR Load Index	Infl. press.	Load Carrying Capacity: kg (lbs) / Speed, km/h (mph) — Not high and sustained torque; Road transport: Static	10 6	20 12	30 19	40 25	50 31	Field operation — Low Torque: 10 6	20 12	High Torque: 10 6
		mm in	mm in	mm in	mm in	Speed Symbol	Bar Psi									
23.1 - 26	DW20	587 23.1	1560 61.4	690 27.2	4545 178.9	8PR 145A8	0.9	5930	3870	3170	2760	2580	2350	3610	3100	2760
							13	13060	8520	6980	6080	5680	5180	7950	6830	6080
							1	6300	4110	3370	2930	2740	2490	3840	3290	2930
							15	13880	9050	7420	6450	6040	5480	8460	7250	6450
							1.1	6670	4350	3570	3100	2900	2640	4060	3480	3100
							16	14690	9580	7860	6830	6390	5810	8940	7670	6830
						10PR 149A8	1.2	6830	4460	3650	3180	2970	2700	4160	3560	3180
							17	15040	9820	8040	7000	6540	5950	9160	7840	7000
							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

FLOTATION IMPLEMENT
FLOTATION T422

TUBELESS

- Flotation Tubeless tyres developed with high inner volume ensures low specific ground pressure preventing damages to fields & crops.
- Tough Nylon casing can withstand the severe deflection in service.
- High strength bead wires coupled with design of contour & insulation compound withstands high stress in the bead region.
- Suitable for both on and off road agricultural service.

Sl. No.	Size	Rim inches	Outer Diameter mm	Section Width mm	Static Loaded radius mm	Rolling Circum-ference mm	PR	Free Rolling Load Index Speed Symbol	Drive Wheel Load Index Speed Symbol	Infl. Press. bar	Load Capacity(kgs) at different speed (kmph) Free Rolling Wheel				Load Capacity(kgs) at different speed (kmph) Drive Wheel			
											10	25	40	50	10	25	40	50
1	550/45-22.5	16.00 DC	1070	550	470	3100	12	153A8, 149B	141A8, 137B	1.5	4200	3670	3000	2700	2950	2510	2110	1900
										1.9	4820	4090	3440	3100	3400	2890	2430	2190
										2.1	5110	4350	3650	3290	3610	3060	2575	2320
							16	159A8, 156B	147A8, 143B	2.4	5600	4760	4000	3600	3930	3340	2810	2530
										2.6	5870	4990	4190	3770	4120	3500	2940	2650
										2.8	6130	5210	4375	3940	4310	3660	3075	2770
2	500/60-22.5	16.00 DC	1170	500	510	3360	12	157A8, 154B	145A8, 142B	2.0	5190	4410	3710	3340	3650	3110	2610	2350
										2.2	5490	4660	3920	3530	3860	3280	2760	2480
										2.4	5780	4910	4125	3710	4060	3450	2900	2610
							16	163A8, 159B	151A8, 148B	2.8	6310	5370	4510	4060	4470	3800	3190	2870
										3.0	6570	5580	4690	4220	4650	3950	3320	2990
										3.2	6830	5800	4875	4390	4830	4110	3450	3110
3	550/60-22.5	16.00 DC	1238	550	540	3580	12	160A8, 156B	148A8, 144B	1.8	5460	4640	3900	3510	3820	3250	2730	2460
										2.1	5980	5080	4270	3840	4190	3560	2990	2690
										2.3	6300	5360	4500	4050	4410	3750	3150	2840
							16	166A8, 162B	154A8, 150B	2.4	6510	5530	4650	4190	4610	3920	3290	2960
										2.6	6820	5800	4870	4380	4830	4110	3450	3110
										3.0	7420	6310	5300	4770	5250	4460	3750	3380
4	600/50-22.5	20.00 DC	1170	600	510	3380	12	159A8, 156B	147A8, 144B	1.5	5180	4400	3700	3330	3640	3090	2600	2340
										1.7	5570	4740	3980	3580	3920	3330	2800	2520
										2.0	6130	5210	4375	3940	4310	3660	3075	2770
							16	165A8, 161B	153A8, 149B	2.2	6540	5560	4670	4200	4630	3940	3310	2980
										2.4	6870	5840	4910	4420	4870	4140	3480	3130
										2.6	7210	6130	5150	4640	5110	4340	3650	3290
5	600/55-22.5	20.00 DC	1238	600	540	3580	12	164A8, 160B	151A8, 148B	1.5	5920	5030	4230	3810	4090	3470	2920	2630
										1.7	6370	5410	4550	4100	4400	3740	3140	2830
										2.0	7000	5950	5000	4500	4830	4110	3450	3110
							16	169A8, 166B	156A8, 153B	2.2	7360	6260	5260	4730	5080	4320	3630	3270
										2.4	7740	6580	5530	4980	5350	4550	3820	3440
										2.6	8120	6900	5800	5220	5600	4760	4000	3600
6	600/55-26.5	20.00 DC	1333	600	585	3850	12	165A8, 161B	153A8, 149B	1.5	6090	5180	4350	3920	4310	3670	3080	2770
										1.8	6780	5760	4840	4360	4800	4080	3430	3090
										2.0	7210	6130	5150	4640	5110	4340	3650	3290
							16	170A8, 167B	159A8, 156B	2.2	7820	6470	5440	4900	5560	4720	3970	3570
										2.4	8020	6820	5730	5160	5840	4960	4170	3750
										2.6	8400	7140	6000	5400	6130	5210	4375	3940
7	700/50-22.5	24.00 DC	1238	700	550	3650	12	168A8,164B	156A8, 153B	1.6	6510	5530	4650	4190	4650	3950	3320	2990
										1.8	6970	5930	4980	4480	4960	4240	3560	3200
										2.2	7840	6660	5600	5040	5600	4760	4000	3600
							16	174A8, 170B	162A8, 158B	2.4	8570	7280	6120	5510	6080	5160	4340	3910
										2.8	9380	7970	6700	6030	6650	5650	4750	4200
8	700/40-22.5	24.00 DC	1170	700	510	3380	12	160A8, 157B	148A8, 144B	1.7	5730	4870	4090	3680	4000	3400	2860	2570
										2.0	6300	5360	4500	4050	4410	3750	3150	2840
							16	166A8, 162B	154A8, 150B	2.2	6730	5720	4810	4330	4760	4050	3400	3060
										2.6	7420	6310	5300	4770	5250	4460	37850	3380
							18	168A8, 165B	156A8, 153B	3.0	7280	6190	5200	4680	5210	4430	3720	3350
										3.4	7840	6660	5600	5040	5600	4760	4000	3600
9	700/50-26.5	24.00 DC	1333	700	585	3650	12	169A8, 165B	157A8, 154B	1.6	7570	6440	5410	4870	5390	4580	3850	3470
										1.8	8120	6900	5800	5220	5780	4910	4125	3710
							16	174A8, 170B	162A8, 158B	2.2	8920	7580	6370	5730	6310	5370	4510	4060
										2.4	9380	7970	6700	6030	6650	5650	4750	4280
10	800/45-26.5	28.00 DC	1343	800	585	3650	12	170A8, 167B	158A8, 155B	1.5	7810	6640	5580	5020	5530	4700	3950	3560
										1.7	8400	7140	6000	5400	5950	5060	4250	3830
							16	177A8, 173B	164A8, 160B	2.0	9860	8210	6900	6210	6820	5630	4730	4260
										2.2	10220	8690	7300	6570	7000	5950	5000	4500

All tyres conform to ETRTO Standards

FARM TYRES

TRACTION IMPLEMENT

TRACTION TR 800

TUBELESS

- ALTURA Traction TR 800 pattern is designed to carry high load for both off and on road use, implement and industrial / contruction applications.
- Tread pattern is engineered to provide excellent traction to drive wheel, thus making the tyre suitable for free rolling as well as drive wheel applications.

Size	Rim Inches	Outer Diameter mm	Section Width mm	Static Loaded Radius mm	Rolling Circum -ference mm	PR	Inflation Pressure bar	Free Rolling Wheel		Drive Wheel	
								Load Index Speed Symbol	Load Capacity (Kg)	Load Index Speed Symbol	Load Capacity (Kg)
400/60-15.5	13.0	910	400	408	2662	14	3.5	140 A8	2500	127 A8	1750

All tyres conform to ETRTO Standards

I-1

FARM IMPLEMENT

AGRICULTURAL IMPLEMENT I-1

- Multi rib low section design provides high flotation.
- Extra wide tread and high volume provides high load carrying capacity at low inflation pressures.
- Suitable for both on and off-the-road service.

Size	Rim Width in	Unloaded dimension		Loaded Static Radius	Rolling Circum	PR	Infl. press.	Load Capacity, kg (lbs)		
		SW	OD					Speed, km/h (mph)		
		mm in	mm in	mm in	mm in		bar psi	Static	15 10	50 31
7.60 - 15 SL	5.5	193 7.6	734 28.9	328 12.9	2150 84.6	6	2.8 40	1600 3530	920 2030	800 1760
						8	3.6 52	1900 4190	1095 2415	950 2095
9.5L - 15 SL	7.0	241 9.5	767 30.2	341 13.4	2247 88.5	6	2.2 32	1850 4080	1065 2180	925 2040
						8	3 44	2240 4940	1290 2845	1120 2470
11L - 15 SL	8.0	279 11.0	777 30.6	345 13.6	2275 89.6	6	1.9 28	1950 4300	1120 2470	975 2150
						8	2.5 36	2300 5070	1325 2920	1150 2540
						10	3.0 44	2640 5820	1520 3350	1320 2910
12.5L - 15 SL	10.0	318 12.5	823 32.4	363 14.3	2411 94.9	8	2.5 36	2720 5995	1565 3450	1360 3000
						10	3.0 44	3100 6835	1785 3935	1550 3420

All tyres conform to T & RA Standards

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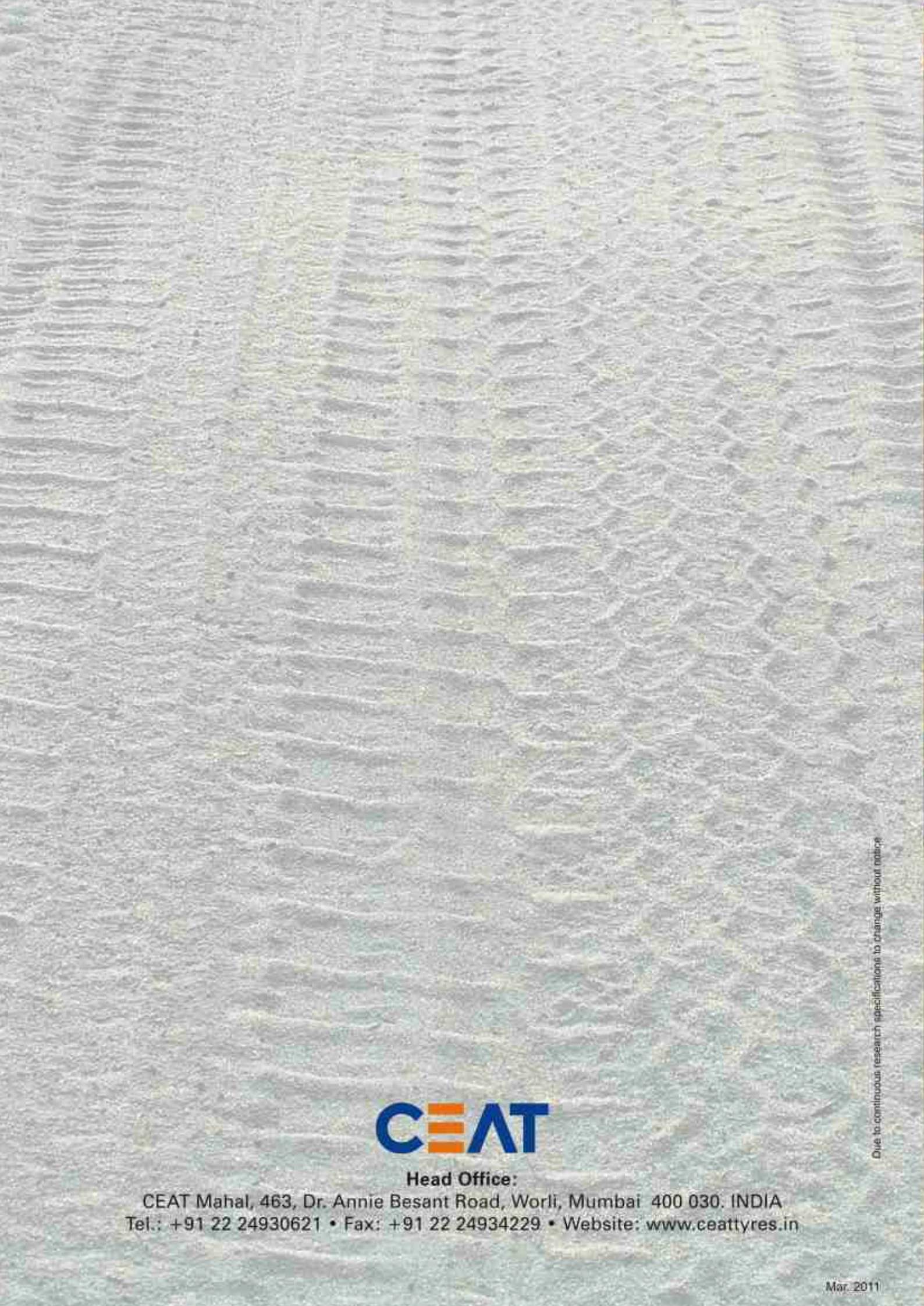

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