



MAGNA TYRES PREMIUM QUALITY OTR & INDUSTRIAL TYRES



**GET ALL THE BENEFITS
OF MAGNA RADIAL
TYRE TECHNOLOGY**





MAGNA TYRES PREMIUM QUALITY

All over the world, customers of all types of machines have the same ongoing interests:

**TO INCREASE THEIR
PRODUCTIVITY AND TO
REDUCE OPERATING COSTS.**

Premium Quality Magna Tyres offer the optimal combination of tyre performance and purchase price, leading to a low cost price per hour/kilometre and a highly efficient operation.

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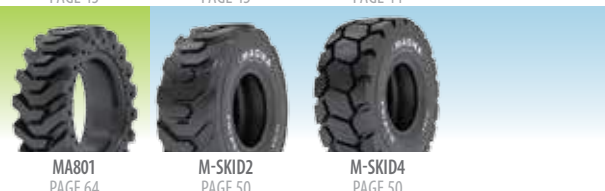
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- Mining & Earthmover
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MAGNA TYRES GROUP

In only one decade Magna Tyres Group evolved from a specialist rubber compound producer to a leading tyre manufacturer with 13 sales offices worldwide and tyres running in more than 130 countries across the world.

With the headquarters based in the southern part of the Netherlands, Magna Tyres Group manufactures and distributes an extensive range (E2/L2 up to E4 and L5) of radial, bias and solid tyres for Mining & Earthmover, Industrial, Agricultural, Port Handling and Truck applications.

VISION

To be a global OTR tyre leader in Mining and Construction, Waste and Recycling, material handling, Port handling and Agriculture.

MISSION

Our goal is to deliver premium quality products that deliver the lowest total cost of ownership / cost price per hour.

OUR OFFICES



OUR SUCCESS

Premium quality compound

Partnerships with leading distributors, oem and suppliers

Product of Holland



Customer focussed

MAGNA TECHNOLOGY

- ✓ Improved traction through specialized tread design
- ✓ Heavy duty sidewalls guarantee excellent resistance to damage and impacts
- ✓ High-tech casing reduces heat buildup inside the tyre
- ✓ Enhanced Tyre performance due to premium Magna rubber compound



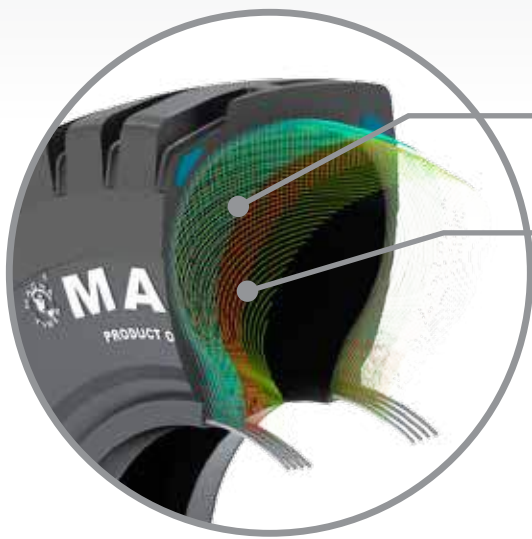
GET ALL THE BENEFITS OF MAGNA TYRE TECHNOLOGY

BIAS VS. RADIAL TYRES

BIAS OR DIAGONAL PLY CONSTRUCTION

The crown and sidewalls are formed by the same ply structure. The tread is affected by flexing of the sidewalls, resulting in:

- Deformation of the tyre contact area on the ground
- Movement in the tread contact area
- The casing plies tend to "scissor" in relation to each other

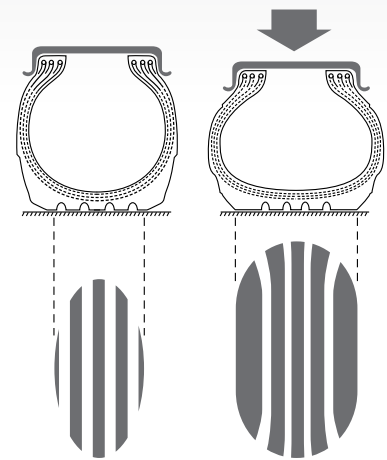


The casing is made up of several criss-crossed plies.

The crown is not stabilized.

Disadvantages

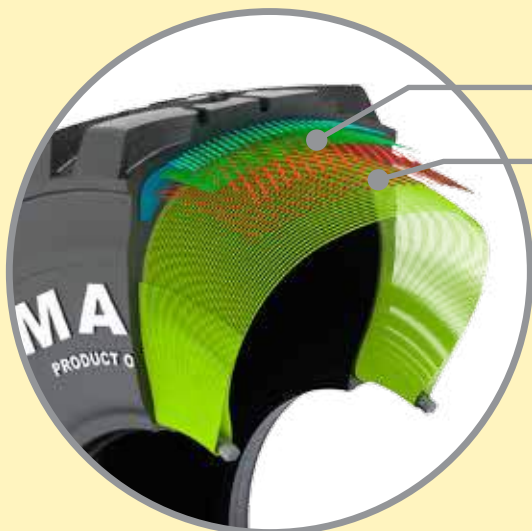
- accelerated wear
- less grip
- increased fuel consumption



ALL STEEL RADIAL CONSTRUCTION - MULTIFUNCTIONAL

The sidewall and tread function separately. The tread is unaffected by the flexing of the sidewalls, so there is:

- less deformation of the tyre contact area on the ground
- less movement in tread contact area
- no movement between casing plies.

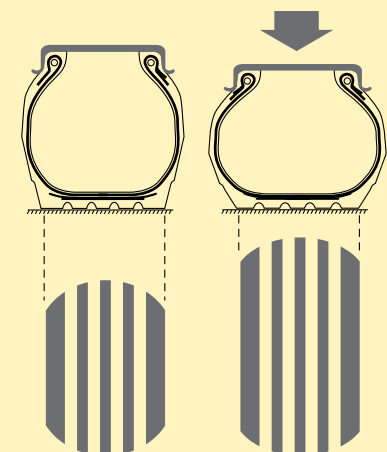


The casing has only one radial ply.

The crown is stabilized by several plies.

Advantages

- long tyre life
- better traction on all types of surface
- lower fuel consumption due to lower rolling resistance
- improved comfort
- increased resistance to punctures / flats
- increased resistance to heating



PRODUCT DEVELOPMENT AND R&D

Product development by our R&D department is constantly at the top of our priorities, by:

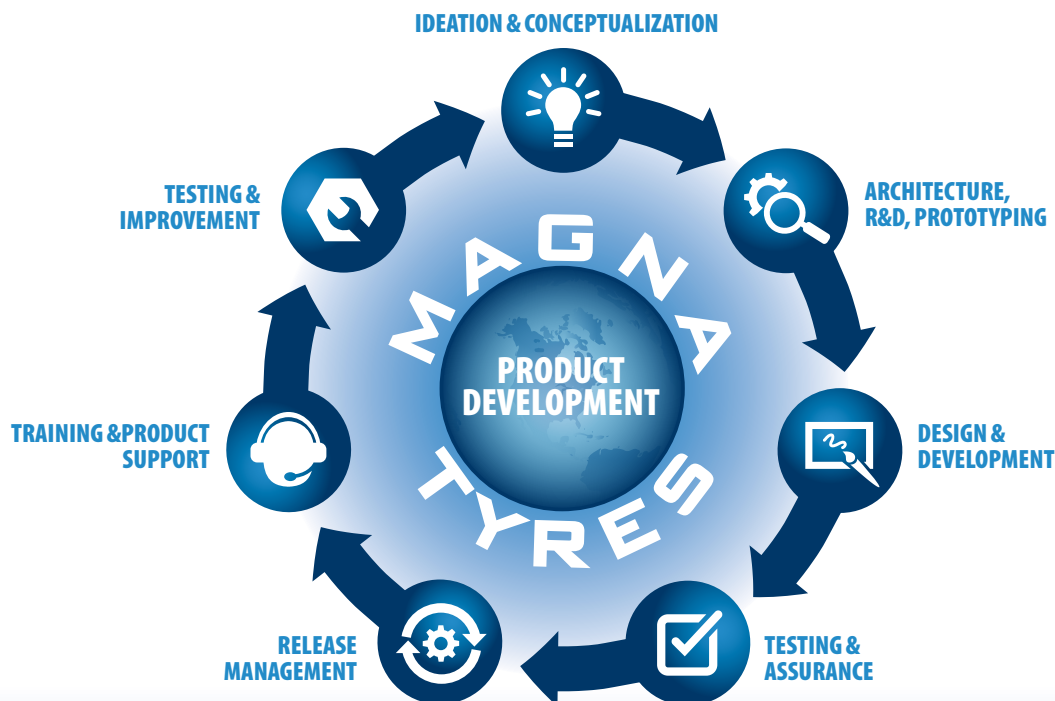
1) continuously improving our existing tyre range.

2) continuously converting customer demand into new successful tyres.

By using European technology and a premium quality compound our team is always able to come up with the right solutions for our customers demand, and enabled us to become the fastest growing OTR company worldwide.

PRODUCT DEVELOPMENT

Every **(1) product improvement** or **(2) new product** starts with an idea on which our R&D department develops an architecture and design. This design is tested and prepared for release management. In this phase everyone who works with Magna products is informed, and is provided with product information, marketing and training. Afterwards the product is released and we start to collect data by testing and requesting feedback from end-users. This is a continuous process as we are continuously improving our tyrerange to guarantee the premium quality Magna customers expect.



INNOVATION

"Innovation for the benefit of our clients has been the driving force behind our success. It enabled us to become the fastest growing OTR company in the world. Our European technology, premium quality compounds and innovative new tread designs satisfy the needs of our customers. Continual innovation and a flexible approach to achieving the best client-specific solutions satisfy the real needs of our customers and makes us stand out against our competitors, especially in reducing total cost of ownership and cost price per hour."

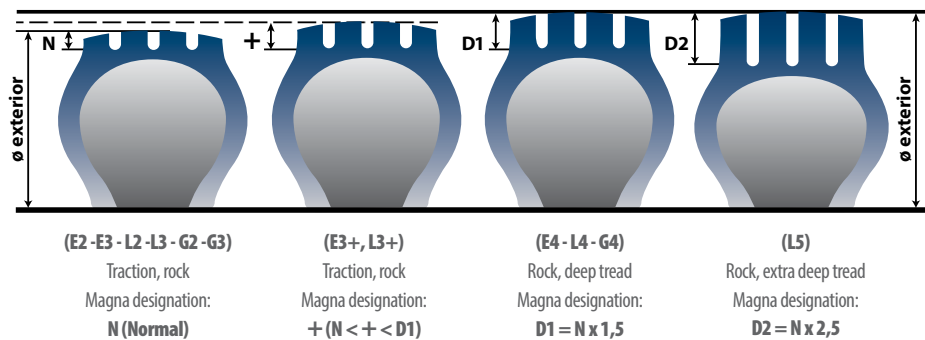
TYRE MARKING



- ① Manufacturer: Magna Tyres
- ② Tread pattern: MA02
- ③ Tyre size: 26.5
- ④ Radial construction: R
- ⑤ Wheel diameter (in inches): 25
- ⑥ Tra code: E3+

DIFFERENT TREAD DEPTHS

There are 4 earthmover tyre families characterized by their different tread depths (or tread height) and which are chosen as a function of their use and the surface conditions.



STANDARDIZED USAGE (ISO-ETRTO-TRA-JATMA*)

The four main categories of earthmover tyres are defined by their user. The category to which it belongs is indicated on the sidewall of the tyre. This is an international classification:

- C** Compactor
- E** Earthmoving
- G** Grader
- L** Loader & bulldozer

Within these categories, there are different tread depths and special tread patterns, for very specific uses. These are identified by a number. They must be chosen according to the type of ground and the tyre's condition of use.

The letter "S" indicates a smooth tread; example: L5S.

- 1 Ribbed (normal tread depth)
- 2 Traction (normal tread depth)
- 3 Normal (normal tread depth)
- 4 Deep (deep tread)
- 5 Very deep (very deep tread)
- 7 Flotation (normal tread)

* ISO International Standard Organisation
 ETRTO European Tyre and Rim Technical Organisation
 TRA Tire and Rim Association
 JATMA Japan Automobile Tyre Manufacturers Association

Code	Tread pattern	Application
C1	SMOOTH	Compactor
E1	RIBBED	Transport
E2	TRACTION	
E3	ROCK	
E4	ROCK (deep tread)	
E7	FLOTATION	
G1	RIBBED	Grader
G2	TRACTION	
G3	ROCK	
G4	ROCK (deep tread)	
G5	ROCK (very-deep tread)	
L2	TRACTION	Loader Bulldozer
L3	ROCK	
L4	ROCK (deep tread)	
L5	ROCK (very-deep tread)	
L3S	SMOOTH	
L4S	SMOOTH (deep tread)	
L5S	SMOOTH (very-deep tread)	

TECHNICAL INFORMATION

SPEED SYMBOL

Symbol	A2	A6	A8	B	C	D	E	F	G	J	K	L	M
Speed (km/h)	10	30	40	50	60	65	70	80	90	100	110	120	130
Speed (mph)	6	20	25	30	35	40	45	50	55	60	67	73	80

Examples: 23.5R25 MA02 TL 185 B: This tyre is able to carry 9.250kg at a maximum speed of 50km/h (20.390lb at 30mph).

LOAD INDEX (LI) AND MAXIMUM LOAD (KG)

LI	Maximum load		LI	Maximum load		LI	Maximum load		LI	Maximum load		LI	Maximum load	
	kg	lb		kg	lb		kg	lb		kg	lb		kg	lb
115	1.215	2.678	146	3.000	6.610	177	7.300	16.090	208	18.000	39.690	239	43.750	96.470
116	1.250	2.755	147	3.075	6.780	178	7.500	16.530	209	18.500	40.790	240	45.000	99.210
117	1.285	2.832	148	3.150	6.950	179	7.750	17.090	210	19.000	41.890	241	46.250	101.960
118	1.320	2.910	149	3.250	7.170	180	8.000	17.640	211	19.500	43.000	242	47.500	104.720
119	1.360	2.998	150	3.350	7.390	181	8.250	18.190	212	20.000	44.100	243	48.750	107.470
120	1.400	3.090	151	3.450	7.610	182	8.500	18.740	213	20.600	45.420	244	50.000	110.250
121	1.450	3.200	152	3.550	7.830	183	8.750	19.290	214	21.200	46.750	245	51.500	113.540
122	1.500	3.310	153	3.650	8.050	184	9.000	19.840	215	21.800	48.070	246	53.000	117.950
123	1.550	3.420	154	3.750	8.270	185	9.250	20.390	216	22.400	49.390	247	54.500	120.150
124	1.600	3.530	155	3.875	8.540	186	9.500	20.940	217	23.000	50.700	248	56.000	123.480
125	1.650	3.640	156	4.000	8.820	187	9.750	21.500	218	23.600	52.040	249	58.000	127.890
126	1.700	3.750	157	4.125	9.090	188	10.000	22.050	219	24.300	53.580	250	60.000	132.300
127	1.750	3.860	158	4.250	9.370	189	10.300	22.710	220	25.000	55.120	251	61.500	135.580
128	1.800	3.970	159	4.375	9.650	190	10.600	23.370	221	25.750	56.780	252	63.000	138.890
129	1.850	4.080	160	4.500	9.920	191	10.900	24.030	222	26.500	58.430	253	65.000	143.300
130	1.900	4.190	161	4.625	10.200	192	11.200	24.690	223	27.250	60.070	254	67.000	147.710
131	1.950	4.300	162	4.750	10.470	193	11.500	25.360	224	28.000	61.740	255	69.000	152.120
132	2.000	4.410	163	4.875	10.750	194	11.800	26.020	225	29.000	63.940	256	71.000	156.530
133	2.060	4.540	164	5.000	11.020	195	12.150	26.790	226	30.000	66.150	257	73.000	160.930
134	2.120	4.670	165	5.150	11.350	196	12.500	27.560	227	30.750	67.790	258	75.000	165.340
135	2.180	4.810	166	5.300	11.690	197	12.850	28.330	228	31.500	69.460	259	77.500	170.660
136	2.240	4.940	167	5.450	12.020	198	13.200	29.100	229	32.500	71.660	260	80.000	176.400
137	2.300	5.070	168	5.600	12.350	199	13.600	29.990	230	33.500	73.870	261	82.500	181.880
138	2.360	5.200	169	5.800	12.790	200	14.000	30.870	231	34.500	76.070	262	85.000	187.390
139	2.430	5.360	170	6.000	13.230	201	14.500	31.970	232	35.500	78.280	263	87.500	192.900
140	2.500	5.510	171	6.150	13.560	202	15.000	33.070	233	36.500	80.480	264	90.000	198.450
141	2.575	5.680	172	6.300	13.890	203	15.500	34.180	234	37.500	82.690	265	92.500	203.920
142	2.650	5.840	173	6.500	14.330	204	16.000	35.280	235	38.750	85.430	266	95.000	209.440
143	2.725	6.010	174	6.700	14.770	205	16.500	36.380	236	40.000	88.200	267	97.500	214.950
144	2.800	6.170	175	6.900	15.210	206	17.000	37.480	237	41.250	90.940	268	100.000	220.500
145	2.900	6.390	176	7.100	15.650	207	17.500	38.590	238	42.500	93.710	269	103.000	227.370

This is a measurement of the strength of the Radial Casing Ply vs. Bias Ply Tyres.

Sizes and marking	Work machines	Transport machines	Sizes and marking	Work machines	Transport machines	Sizes and marking	Work machines	Transport machines
7.50 R 15	12		17.5 R 25 *	16		33.25 R 29 **		44
8.25 R 15	12		17.5 R 25 **	20	24	18.00 R 33 **		40
18 R 19.5 *	16		18.00 R 25 *	24		33.5 R 33 **		44
10.00 R 20	16		18.00 R 25 **		36	35/65 R 33 *	36	
C20 Pii (11/80 R 20)	16		20.5 R 25 *	24		37.5 R 33 **		48
E20 (13./80 R 20)			20.5 R 25 **		28	21.00 R 35 **		44
15 R 22.5 *	16		21.00 R 25 **		40	24.00 R 35 **		48
18 R 22.5 *	16		23.5 R 25 *	28		29.5 R 35 **		40
12.00 R 24 ***	24	24	23.5 R 25 **		32	33.25 R 35 **		44
13.00 R 24 TG *	14		25/65 R 25 **		32	37.25 R 35 **		48
14.00 R 24 TG *	16		26.5 R 25 *	32		37.5 R 39 **		52
14.00 R 24	24		26.5 R 25 **		32	40/65 R 39 *	42	
14.00 R 24 ***	28	32	29.5 R 25 *	34		40.5/75 R 39 **		54
15.00 R 24 (17/80 R 24)	28		29.5 R 25 **		34	45/65 R 39 * (1)		
16.00 R 24 TG *	16	16	555/70 R 25 * L2F	16		45/65 R 45 *	50	
16.00 R 24 **		36	555/70 R 25 * L3T or L4T	24		24.00 R 49 **		48
555/70 R 24 TG *	16		625/70 R 25 *	28		27.00 R 49 **		54
20 R 24 TG *	16		705/70 R 25 *	32		30.00 R 51 **		64
13.00 R 25 ***		28	750/65 R 25 *	34		33.00 R 51 **		68
14.00 R 25 ***		32	26.5 R 29 **		34	36.00 R 51 **		74
15.5 R 25 *	16		29.5 R 29 *	34		37.00 R 57 ** (1)		
15.5 R 25 **	20		29.5 R 29 **		40	40.00 R 57 **		78
16.00 R 25 **		36	30/65 R 29 *	28		55/80 R 57 * (1)	80	

CLASSIFICATION ACCORDING TO ASPECT RATIO

The wide diversity of earthmover machines and their uses requires the development of numerous ranges of tyres. Earthmover tyres differ from those mounted on cars or commercial vehicles by:

- Their size and weight
- Their tread depths are proportionally greater
- More reinforcements to deal with the harsher conditions of use

There are several families of earthmover tyres, characterized by their aspect ratio H/S (ratio between the height of the sidewall H and the section width of the tyre S).

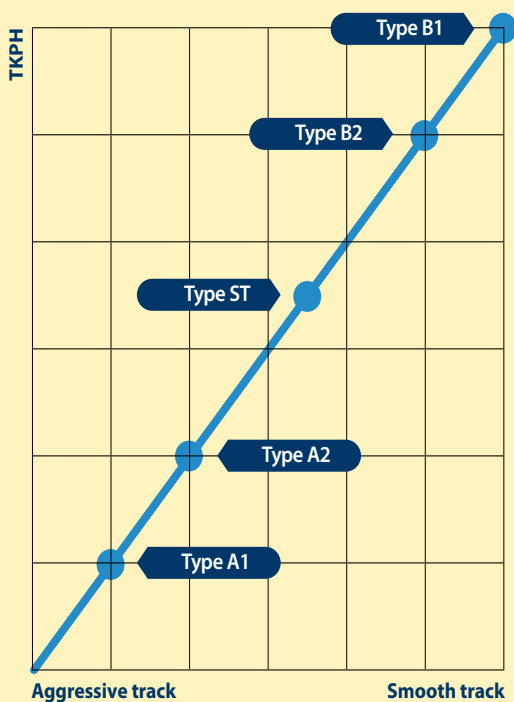
100 series (standard)	90 series (standard)	80 series (standard)	70 series (standard)	65 series (standard)
The H/S ratio is approximately 1	The H/S ratio is approximately 0.90	The H/S ratio is approximately 0.80	The H/S ratio is approximately 0.70	The H/S ratio is approximately 0.65
The section width is expressed as a whole number of inches. Examples: 5.00R8, 18.00R33 Tyres for rigid trucks, handling equipment, etc.	The section width is expressed as a whole number of inches followed by the number 90. Example: 50/90 R57 Tyres for rigid trucks	The section width is expressed in: <ul style="list-style-type: none"> • Inches and fractions of inches • Whole number of inches, followed by the number 80 Examples: 59/80 R63 Tyres for rigid trucks, articulated dumpers, loaders, handling equipment, etc.	The section width is expressed as a whole number of inches or a whole number of millimeters, followed by the number 70. Example: 420/70R28	The section width is expressed as a whole number of inches or a whole number of millimeters, followed by the number 65. Examples: 35/65 R33, 750/65 R25 Tyres for large loaders, articulated trucks, etc.

COMPOUND & TKPH

TYPE A1	Particularly resistant to cuts, tread tearing and abrasion on very rough surfaces.	TKPH minimum
TYPE A2	Particularly resistant to cuts, tread tearing and abrasion at average speeds which are higher than those for A+ (above).	low TKPH
TYPE ST	Compromise solution between abrasion resistance and average speed on rough surfaces.	average TKPH
TYPE B2	Adapted to running on long cycles at high speeds on well-maintained roads.	high TKPH
TYPE B1	Very high resistance to high average speeds on long cycles run on well-maintained roads.	very high TKPH

EXAMPLE

Tyre size	Pattern	Load symbol	Tra code	Max. speed (km/h)	Load/speed index	Single max. load/pressure	Rim	OD (mm)	SW (mm)	TD (mm)	Tyre weight (kg)	TKPH				
												A1	A2	ST	B2	B1
27.00R49	MA04+	**	E4	50	223B	27250 kg / 6.5 bar	19.50/4.0	2690	740	82	1600	392	465	500	535	625



TYRES TKPH

The TKPH (Ton Kilometre Per Hour) or TMPH (Ton Mile Per Hour) is an essential expression of the working capacity of a tyre, depending of a maximum operating temperature allowable.

A tyre's TKPH (TMPH) depends on its design and varies according to size and type.

TKPH (TMPH) values are given along with other Magna tyre characteristics. It is a function of load of each tyre and the number of kilometres (miles) covered per hour by each type of tyre, and are given at an ambient temperature of 38° C (100° F).

For the same size and same pattern, there may be several types of tread compound, each associated with a different TKPH.

LEADING CAUSES OF TYRE DAMAGE

Tyre damage is often caused by simple, easily avoidable user errors. Maintaining the **right inflation pressure (1)**, with the appropriate **heat build-up (2)** within the tyre is the most important step to a prolonged tyre life. Of course regular **vehicle maintenance (3)** and selecting the right tyre for the **appropriate application (4)** is also necessary to ensure low costs per kilometer.

1. INFLATION PRESSURE

The weight of the load is carried by the air within the tyre, not the tyre itself. Maintaining the correct inflation pressure is absolutely necessary to guarantee the tyre's performance. Pressure should always be set to, and maintained at the maximum load- / -pressure specification.

COMMON MISTAKES

- Under inflation causes excessive deflection in the tyre, increasing the heat level and leading to premature tyre failure.
- Over inflation restricts the natural deflection of the tyre, leading to premature tyre failure.

SOLUTIONS

- Check the appropriate maximum load- / -pressure ratio of a tyre and then calculate the best combination for your use. A lower inflation pressure limits load capacity.
- Pressure should be checked at regular intervals.
- Underinflation and over inflation should be avoided.



2. HEAT BUILD UP

Heat is the tyre's worst enemy and is caused by several factors. As a tyre rotates under the weight of a vehicle and its load, it repeatedly deforms and recovers, which generates lots of energy. When this energy is released, heat builds up, making it more susceptible to wear, cuts and structural fatigue, which results in reduced tyre lifetime. The amount of heat build-up is determined by several factors including:

- Under-inflation
- Overloading
- High speeds
- Harsh breaking
- Aggressive cornering
- Poorly designed or badly maintained roads
- Working outside tyre specs
- Seasonal influences

COMMON MISTAKES (HEAT BUILD UP)

- Under-inflation and Over-inflation
- Exceeding the load capacity of a tyre
- Driving at a higher speed than the designated load / speed capacity
- Non-professional driving style, with harsh breaking and aggressive cornering
- Neglected road maintenance or poor road design
- Not taking into consideration seasonal effects

SOLUTION (HEAT BUILD UP)

- Underinflation and over-inflation should be avoided
- Ensure the vehicle carries no more than the appropriate load capacity and drives at the corresponding speed
- Gradients in the road shouldn't exceed 5%-6% and should be maintained regularly
- Maintain a professional driving style to ensure a prolonged tyre life



3. VEHICLE MAINTENANCE

Finally, vehicle maintenance is another important factor for an efficient use. The machine's performance can cause severe damage to its tyres. Neglecting regular vehicle maintenance can severely reduce tyre life and increase its running cost.

COMMON MISTAKES

- Misalignment causing tread separation, increased and- / -or irregular tread wear, tyre vibration
- Broken suspension, increased and- / -or irregular tread wear
- Fuel and oil leaks damage to the rubber compound which shortens tyre life

SOLUTIONS

- Always ensure regular vehicle maintenance



4. SELECTING THE RIGHT TYRE

Selecting the right tread pattern will extend the tyre life significantly. Your Magna Tyres representative can assist you by making this selection.

TREAD PATTERN – The tread pattern is designed to produce varying degrees of traction, cut, flotation, wear and heat resistance.

TYRE CONSTRUCTION – Radial – Bias – Solid construction offer various advantages and disadvantages according you specific applications.

COMPOUND & TKPH – Compound and TKPH determines tyre life can affect the lifespan of a tyre.

LOAD- SPEED INDEX – operate at the proper loading capacity.





MSC

The MSC is an all position tyre optimized for construction applications.



The non-directional tread design provides excellent traction while optimizing rolling resistance.



High tread depth pattern results in high mileage, regular wear, self cleaning pattern and resistance to stone retention.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
13R22.5	MSC	18	156/150L	1120	270	17.5	4000/3350	8.3	9.75



MSO

The Magna MSO is a drive axle / all position tyre optimized for off-road applications.



The non-directional tread design provides excellent traction while optimizing rolling resistance.



Wide tread and open shoulder blocks contribute to optimal traction for mixed on-/off-road use.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
13R22.5	MSO	18	156/150L	1116	300	17	4000/3350	8.75	9.75



MHDL

The MHDL is a drive wheel position tyre especially designed for trucks on long-distance and regional transportation.



Solid close shoulder design with special tread compound for excellent traction.



Deep, wide tread and optimized footprint design offers reduced rolling resistance and fuel consumption.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
11R22.5	MHDL	16	148/145L	1085	300	21	3150/2900	8.5	8.25
295/75R22.5	MHDL	16	144/141L	1015	289	21	2800/2575	7.6	9.00
11R24.5	MHDL	16	149/146L	1104	279	21	3250/3000	8.3	8.25
285/75R24.5	MHDL	16	144/141L	1049	283	21	2800/2575	7.6	8.25



MHDL

The MHDL is applicable for the drive wheel position on long haul and regional transportation.



Deep, wide tread and optimized footprint design offers reduced rolling resistance and fuel consumption.



Rugged directional tread and optimized shoulder design offers an extended tire life and regular tread wear.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
11R22.5	MHDL	16	146/143M	1085	300	21	3000/2725	8.3	8.25
295/75R22.5	MHDL	16	146/143M	1015	289	21	3000/2725	8.3	9.00
11R24.5	MHDL	16	149/146M	1104	279	21	3250/3000	8.3	8.25
285/75R24.5	MHDL	16	146/143M	1049	283	21	3075/2800	8.3	8.25



MHDR

The Magna MHDR is a drive axle tyre optimized to provide exceptional traction in regional applications.



Rugged directional tread and optimized tread design offers regular wear and extended tyre life.



Deep, wide tread and optimized footprint design offers reduced rolling resistance and fuel consumption.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
11R22.5	MHDR	16	146/143M	1085	300	20	3000/2725	8.3	8.25



MHSC

The MHSC is a steer axle / all position tyre optimized for trucks operating in on & off road conditions.



Improved tread compound and sidewall reinforced ribs protects against impacts and scuffing.



3 circumferential grooves ensures excellent directional stability, even wear and smooth ride.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
11R22.5	MHSC	16	148/145M	1054	268	17	3150/2900	7.2	8.25
11R24.5	MHSC	16	149/146L	1104	279	17	3250/3000	8.3	8.25



MHSC

The Magna MSO is a drive axle / all position tyre optimized for off-road applications.



The non-directional tread design provides excellent traction while optimizing rolling resistance.



Wide tread and open shoulder blocks contribute to optimal traction for mixed on-/off-road use.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
11R22.5	MHSC	16		1054	268				
11R24.5	MHSC	16		1104	279				



MHSL

The MHSL is a steer axle/ free rolling position tyre especially designed for trucks operating in long haul speed driving conditions.



Special tread compound and casing for lower rolling resistance, improved tread wear and better mileage.



Cross rib sipes provide excellent and superb handling and stability.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
255/70RR2.5	MHSL	16	140/137M	930	255	15	2500/2300	8.3	7.50
11R22.5	MHSL	16	148/145L	1085	300	14	3150/2900	8.5	8.25
295/75R22.5	MHSL	16	150/145M	1015	289	15	3350/3075	8.3	9.00
11R24.5	MHSL	16	149/146L	1104	279	14	3250/3000	8.3	8.25
285/75R24.5	MHSL	16	144/141L	1049	283	14	2800/2575	7.6	8.25



MHSL

The MHSL is a steer-axle especially designed for long haul high speed driving conditions.



Directional tread design provides high mileage and enhanced casing durability.



Special tread compound for lower rolling resistance and improved wear.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
225/70R19.5	MHSL	14	140/137M	810	225	14	2500/2300	8.3	8.25
11R22.5	MHSL	16	146/143M	1085	300	14	3000/2725	8.3	8.25
295/75R22.5	MHSL	16	146/143M	1015	289	14	3000/2725	8.3	9.00
11R24.5	MHSL	16	149/146M	1104	279	14	3000/2725	8.3	8.25
285/75R24.5	MHSL	16	146/143M	1049	283	14	3250/3000	8.3	8.25



MHSL-2

The MHSL-2 an all position truck tyre especially designed for long-haul high-speed driving conditions.



Advanced tread pattern design results in regular wear, reliable grip, self cleaning pattern and resistance to stone retention.



Directional tread design provides high mileage and enhanced casing durability.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
225/70R22.5	MHSL-2	16	140/137M	920	254	14	2500/3000	8.3	7.50



MHSR

The Magna MHSR is a steer-axle tyre optimized for medium haul operating conditions.



Wide tread, with groove edge blading to provide excellent mileage, even wear and superb handling and stability.



The special ribbed tread design offers optimal driver comfort and the necessary safety required for safe mileage



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
315/80R22.5	MHSR	20	156/150M	1076	312	16	4000/3350	9.0	9.00



MHTC

The MHTC is a steer axle / all-position tyre designed for trucks operating in on & off road conditions.



Aggressive multi service, all position tread pattern provides excellent traction in demanding road services.



Robust tread blocks and rugged casing allows heavy loads and resist casing penetration and damages.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
425/65R22.5	MHTC	20	165K	1124	430	18	5150	8.3	12.25



MHTL

The MHTL is a trailer axle position tyre optimized for trucks operating in long haul speed driving conditions.



Shallow tread depth and coll running compound provides low rolling resistance for fuel economy an dlong even tread wear.



4 wide grooves ensures excellent all-season performance on wet and dry roads.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
11R22.5	MHTL	14	144/142M	1054	279	11	2800/2650	7.2	8.25
295/75R22.5	MHTL	14	144/141M	1014	298	11	2800/2575	7.6	9.00



MHTL

The MHTL is a Trailer axle tyre especially designed for long haul high speed driving conditions.



All steel radial construction. Improved protector plies optimize load performance and operator comfort.



Wide tread and optimized footprint design offers reduced rolling resistance and fuel consumption.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
11R22.5	MHTL	16	146/143M	1085	300	11	3000/2725	8.3	8.25
295/75R22.5	MHTL	16	146/143M	1015	289	11	3000/2725	8.3	9.00



MSC

The MSC is an all position tyre optimized for construction applications.



The non-directional tread design provides excellent traction while optimizing rolling resistance.



High tread depth pattern results in high mileage, regular wear, self cleaning pattern and resistance to stone retention.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
12.00R20	MSC	18	154/151K	1125	315	17.5	3750/3450	8.3	8.50
12R22.5	MSC	18	152/149L	1085	300	16	3550/3250	9.3	9.00
315/80R22.5	MSC	20	157/154K	1076	312	16.5	4125/3750	9.0	9.00
12.00R24	MSC	20	160/157K	1125	313	19	4500/4125	9.0	8.50



MSL

The MSL is a steer axle / all position tyre optimized for long haul, highway use.



Special designed, shallower tread pattern for exceptionally long mileage.



Five ribs with four wide, straight grooves for precise handling and outstanding traction.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
12R22.5	MSL	18	152/149L	1085	300	15.5	3550/3250	9.3	9.00



M50

The Magna M50 is a drive axle / all position tyre optimized for off-road applications.



The non-directional tread design provides excellent traction while optimizing rolling resistance.



Wide tread and open shoulder blocks contribute to optimal traction for mixed on-/off-road use.



Tyre size	Pattern	Ply Rating	TT/TL	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
315/80R22.5	M50	20	TL	157/154K	1082	312	19	4125/3750	9.0	9.00
12.00R24	M50	20	TT	160/157K	1226	315	19	4500/4125	9.0	8.50



MSO-2

The MSO-2 is an all position tyre optimized for off-road applications.



All steel radial construction. Improved protector plies optimize load performance and operator comfort



Wide tread and open shoulder blocks contribute to optimal traction for mixed on-/off-road use.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
12.00R20	MSO-2	20	154/151F	1125	315	25	3750/3450	8.3	8.5
12.00R24	MSO-2	20	160/157C	1226	315	32	4500/4125	9.0	8.5



MSO-3

The aggressive, self-cleaning tread design provides excellent traction in severe off-road conditions.



Long-lasting, non-directional tread design contributes to efficient fuel consumption and guarantees operating comfort.



All steel radial construction. Improved protector plies optimize load performance and operator comfort.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
325/95R24	MSO-3	22	162/160K	1207	275	20	4750/4500	8.5	9.00



MSR

The Magna MSR is a steer axle / all position tyre optimized for regional distance traffic.



The tread design provides excellent traction while optimizing rolling resistance.



Multiple gripping edges slice through water and road films for a solid grip.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
12.00R24	MSR	20	160/157K	1226	313	15.5	4500/4125	9.00	8.50



MSR-2

The Magna MSR-2 is a steer axle / all position tyre optimized for regional distance traffic.



The tread design provides excellent traction while optimizing rolling resistance.



Multiple gripping edges slice through water and road films for a solid grip.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
12R22.5	MSR-2	18	152/149L	1085	300	18	3350/3250	9.3	9.00



MSS

The Magna MSS is an all position tyre optimized for off-road applications.



The tread compound provides excellent protection against cutting and abrasion.



Rugged tread blocks and tread design offer outstanding off-road traction.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single / dual max load (kg)	Pressure (bar)	Rim
14.00R20	MSS	18	161/158K	1240	375	19.5	4625/4250	6.9	10.00
16.00R20	MSS	28	174/171G	1309	425	20	6700 / 6150	7.6	10.00



MTC

The MTC is a trailer axle tyre optimized for construction applications.



Wide tread pattern and shoulder for regular wear and extended tyre life in demanding off-road application.



The non-directional tread design provides excellent traction while optimizing rolling resistance.



Tyre size	Pattern	Ply Rating	TT/TL	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single max load (kg)	Pressure (bar)	Rim
385/65R22.5	MTC	20	TL	160K	1072	389	18	4500	9.00	11.75



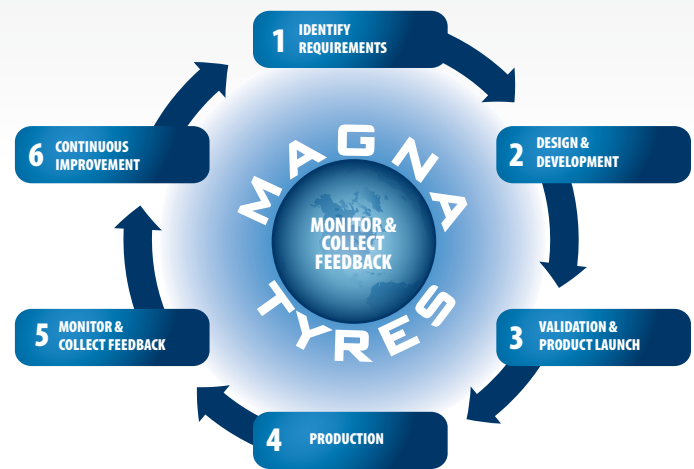
QUALITY MANAGEMENT AND CONTROL

Quality Management and control processes are extensively documented in order to continuously improve our products.

QUALITY MANAGEMENT

To achieve the desired premium quality we maintain a 6-step quality management approach.

1. First we identify the requirements.
2. We design and develop a tyre which meets the requirements as defined in step 1.
3. The design gets validated by product development, R&D department and directors and we start working towards product launch.
4. Production starts.
5. The Tyre performance is constantly monitored by on site tests and collection of customer feedback.
6. This cycle is constantly repeated since we continuously want to improve.



CONTINUOUS IMPROVEMENT

In order to continuously improve our tyre range we implemented a Quality Control process.

1. First a quality improvement should be created, this can be done by either the sales department, R&D department or one of the directors. Customers are able to provide their input through their personal contactperson.
2. A Quality "order" is created containing all the information required to evaluate the performance
3. Our existing performance database is consulted
4. Non-conformances are quickly detected
5. Correlation of the non-conformance and improvement are investigated
6. If the improvement is accepted in the previous step, it gets documented and transferred to the stakeholders
7. Correction Handling is being carried out





MTR

The MTR is a trailer axle tyre optimized for regional distance traffic.



Special shoulder ribs provide sidewall protection and resistance to abrasion.



Rugged directional tread and optimized tread design offers regular wear and extended tire life.



Tyre size	Pattern	Ply Rating	Load / Speed index	Overall Diameter (mm)	Section Width (mm)	Tread Depth (mm)	Single max load (kg)	Pressure (bar)	Rim
385/65R22.5	MTR	20	160K	1072	387	15.5	4500	9.00	11.75