Magna Tyres Digital solution



Digital Transformation: Embedding Artificial Intelligence, Automation and Smart Port Technologies in Creating Sustainable Port Operations

- Introduction to Magna Tyres.
- Pressure effect on tyres life.
- Magna Tyres digital Solution Introduce Magna Tyres TPMS.
- Magna Tyres TPMS reports.
- It is more than TPMS.





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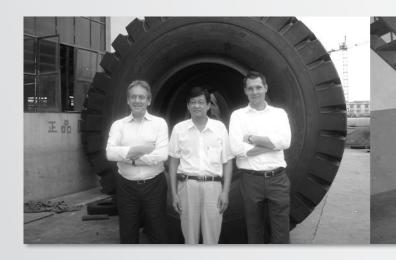


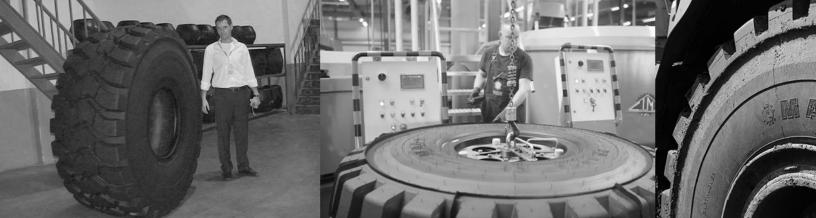


Magna Tyres founded in 2006 as vertical spin-off of a leading compound manufacturer.



Magna compounds produced in mixing facilities in the USA & The Netherlands.





It All Starts With The

Compound.



Specialised in rubber compounds for OTR & Industrial tyres for 60 years.





Use of own Magna rubber compounds, molds & building machinery.



Magna Tyres makes the difference with our rubber compound.





Joint venture production facilities in Asia.



Production Management & quality control by own Magna supervisors.



Trusted by OEM.

LIEBHERR ROKBAK SENJEBOGEN VOLVO

KONECRANES®

































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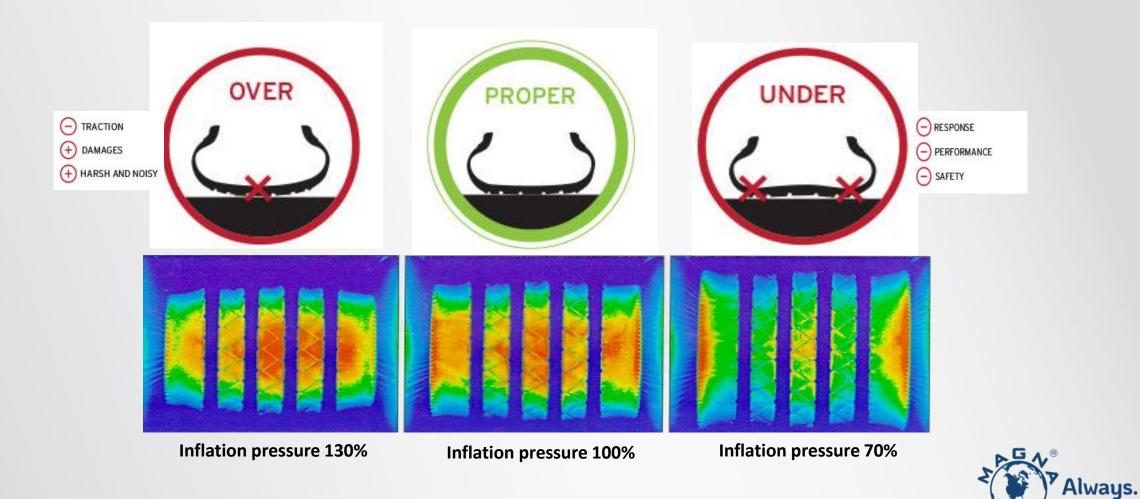


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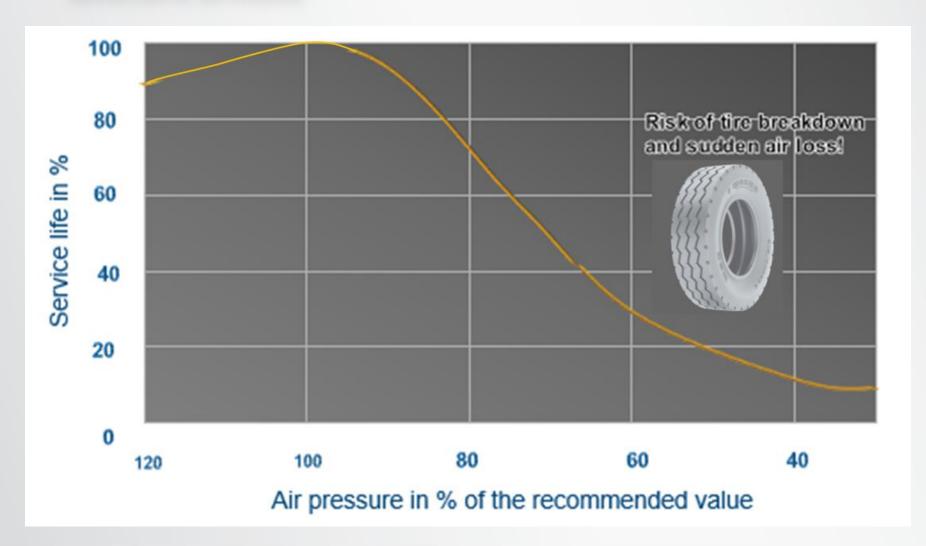


Tire Pressure – Influence on Tire Deformation



Air pressure effect on tyre life.

Service Life vs. Air Pressure.





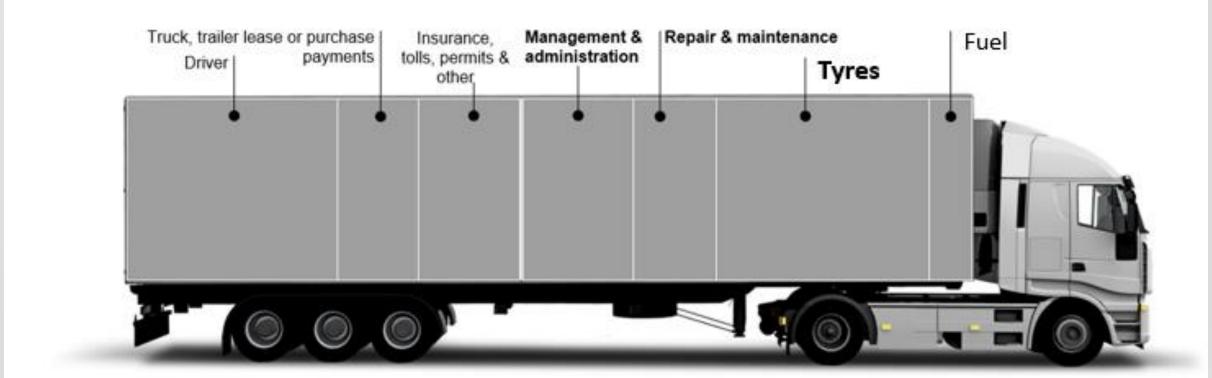
Air pressure effect on tyre life.

Service Life vs. Air Pressure.





Fleet operating costs



Tyre cost represent around 20% of total fleet maintenance cost, What is the optimum solution to control this?





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Always Connected.

- ✓ Uninterrupted Connectivity, Anytime, Anywhere 24/7
- **✓** Beyond Monitoring: A Comprehensive Fleet Management Tool
- ✓ Global Accessibility with User-Friendly Interfaces
- ✓ Effortless Installation, Universal Compatibility
- **✓** Cost-Effective Fleet Management
- ✓ Precision, Confidence, and Cost Reduction





Markets.

- Any market
- Any machine or vehicle
- Any tyre
- Any manufacturer

No limitations on number of tyres.



Key Components.



TPMS Sensor

- On-Valve Sensor
- Standard & Large Bore
- No need to remove tyre



Insights

- Helps diagnose any problems
- Easy to configure parameters
- Easy to set up
- Alerts 'on-the-go'



Magna Gateway

- Flexible Hardware with multiple I/O capability
- Cellular/GPS/Bluetooth
- Battery Backed



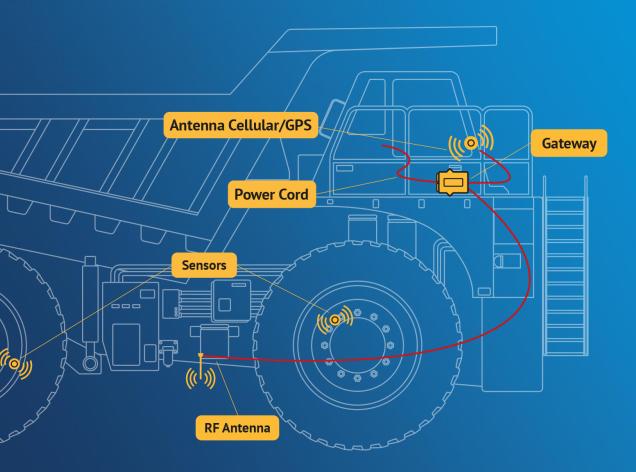
Reports

- Tyre reports
- Mileage
- Hours
- Journeys
- Problems



Easy to Install.

30 – 60 minutes depending on the complexity of the vehicle or machine



- Easy Install No need to remove tyres
- Pre-programed for your vehicle(s)
- Simple Set-up

Rigid Dump Truck MAG – TPMS-RDT			
1x	MAG-Gateway	Magna Gateway	
1x	MAG-200PD	Power Cable	1 2
1x	MAG-333AN	GPS/Cellular Antenna	
1x	MAG-850K	RF cable 35" plus Whip Antenna	
6x	MAG-920	T-Valve large	
6x	MAG-TEHL-2	Large Bore Sensor	3 4 5 6



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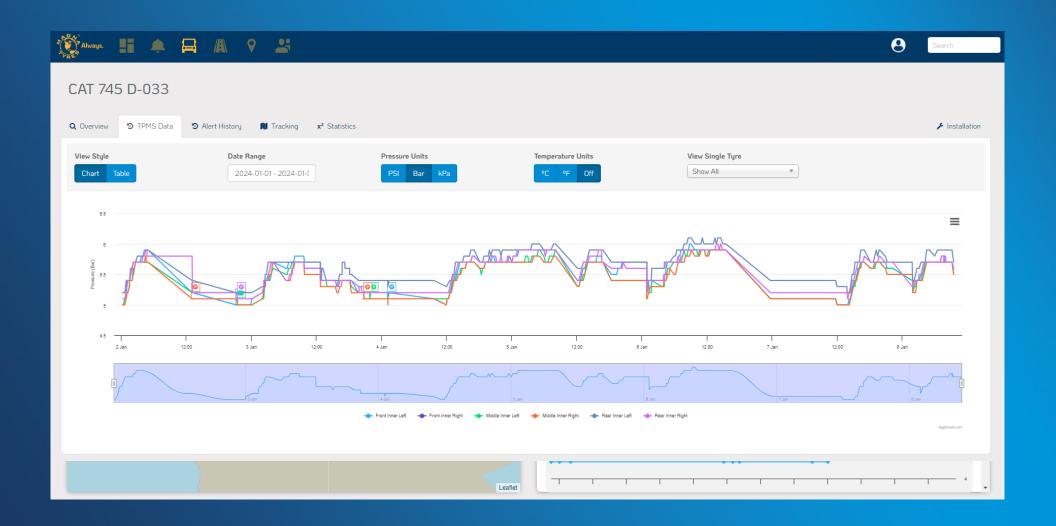


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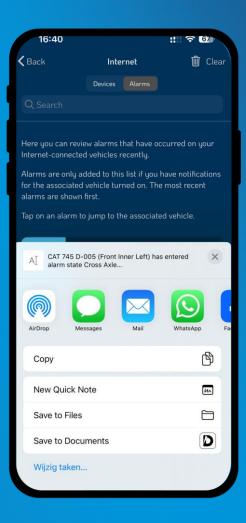
Data Insight – Web and mobile Application.





Data Insight – Alerts/Actions.

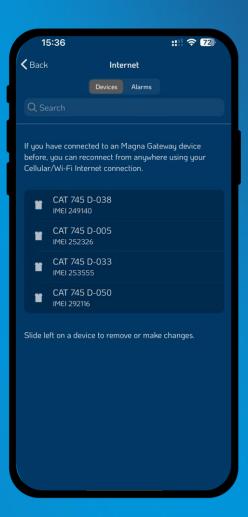
- Mobile detailed alerts via notification Centre on smart phone
- Email with full interactive links to web application
- Easy to create a follow-on action
- Monitoring and sharing alerts 'on-the-go'





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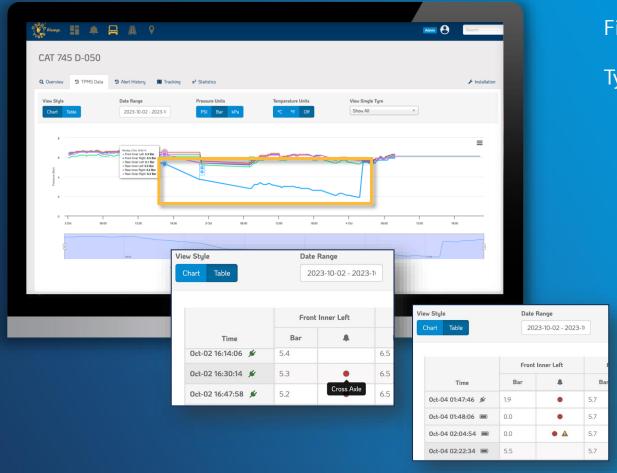
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Magna TPMS – CASE.



First cross-axle alert received at 16:30 October 2nd

Tyre reinflated/replaced? Around 10:00 on October 4th

- Lack of communication?
- Lack of action?
- Audit trail for warranty



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Much more than TPMS.

- Tyre Pressures even when vehicle unpowered
- Tracking even when vehicle unpowered
- Know if the vehicle has moved
- Security in accordance with Thatcham S5
- Engine characteristics and fault codes
- Usage statistics to support service contracts



















TPMS



Battery Backed



Tracking



Security



• Axle Load



Engine Monitoring



Wheel loss



Hub/Brake Temp



Available TPMS kits.

OTR Applications

Application	Valve Bore Sensor	Wheel Positions
Articulated Dump Truck	Large	6
Rigid Dump Truck	Large	6
Wheel Loader	Large	4

- All kits directly available from stock
- All other applications on request.

Port/Material Handling

Application	Valve Bore Sensor	Wheel Positions
Reachstacker	Large	6
Forklift / ECH	Small	6
Straddle Carrier	Large	8
Terminal Trailer	Small	6
Terminal Trailer	Small	8
RTG	Large	8
Mobile Excavator	Small	8



Summary.

- Any machine, any tyre, any manufacturer
- Easy to install, easy to use at an affordable price
- Competitive "cost of ownership" hardware, subscription, install, maintenance

If you want to know more please contact me:

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Summary.

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