

OptiTire™

ADVANCED TIRE PRESSURE MONITORING



WABCO

Mobilizing Vehicle Intelligence

WELCOME TO PEACE OF MIND

WABCO OptiTire™ is the next generation tire pressure monitoring solution for trucks, trailers and buses that is specifically designed to reduce fleet running costs and improve fleet safety.

REDUCE DOWNTIME, EXTEND TIRELIFE

Ensuring the right tire pressure isn't optional with tires being a premium commodity. An official study* estimated that over 30% of truck breakdowns were caused by tire failure. Further research studies** reveal that just 15% over- or underinflation can reduce the life of a tire by more than 10%.

Because an underinflated tire is more likely to suffer from sustained heat build-up and cause terminal damage to the carcass, WABCO OptiTire helps to maintain tire pressure at the recommended level and detect slow punctures early. This helps to maximize tire life and allows tires to be repaired rather than replaced.

CUT FUEL COSTS, MINIMIZE CO₂ EMISSIONS

It's well known that fuel is the largest variable cost for fleet operators and with diesel prices more frequently going up than down, fuel economy is paramount.

In fact, the greater the rolling resistance of under-inflated tires, the lower the fuel economy – not to mention the increase of CO₂ emissions. By ensuring the right tire pressure, WABCO OptiTire delivers both fuel savings of up to 2% and a significant reduction of CO₂ emissions.

REDUCE RISK, ENHANCE SAFETY

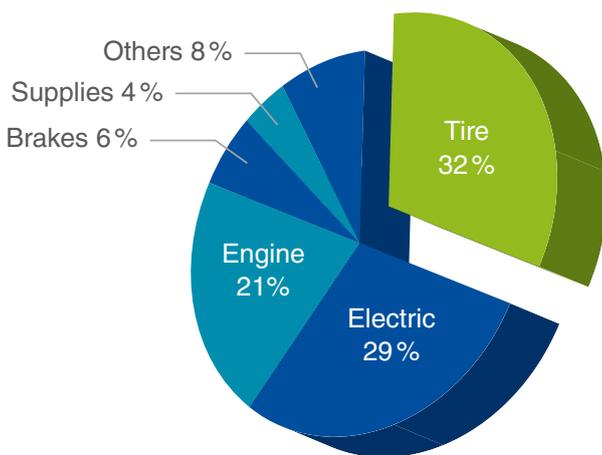
Incorrect tire pressure is dangerous. Along with a deterioration in vehicle handling and extended braking distances, the risk of sudden tire failure is considerably higher in a vehicle with incorrectly inflated tires.

WABCO's OptiTire helps to maintain tire pressure at the recommended level, significantly enhancing fleet safety.

OptiTire helps to avoid underinflation, leading to fuel savings of up to 2%**

VEHICLE DOWNTIME

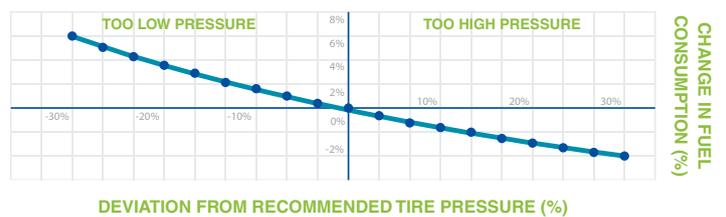
Tire defects are the most frequent reason for commercial vehicle downtime*



Around 85% of tire pressure losses start with a small leakage that could be detected with OptiTire

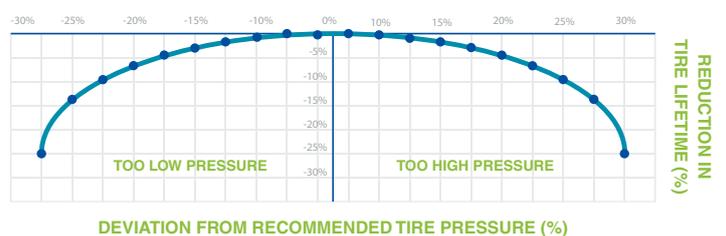
FUEL EFFICIENCY

A constantly underinflated tire leads to an increase of up to 1,400 liters in fuel consumption for long haul operations (200,000 km annual mileage)



TIRE LIFETIME

A deviation of 15% from the recommended tire pressure leads to a reduction of tire lifetime of over 10%**



* Source: Allgemeiner Deutscher Automobil Club, 2011 | ** Source: Michelin

TIRE PRESSURE SOLUTIONS FOR A WIDE RANGE OF VEHICLES

WABCO OptiTire is designed to work across a spectrum of commercial vehicles and offers solutions for all types of rims.

Valve-mounted or strap-mounted, WABCO OptiTire internal sensors provide a continuous correlation between tire temperature and pressure to improve reliability. The external sensors provide precise information on tire pressure and enable a particularly easy retrofit as the tires aren't removed from the rim during installation.

WABCO OptiTire delivers continuous updates on tire pressure and temperature (internal sensors) from each monitored wheel to the drivers. The information provided via a dashboard or a dedicated WABCO display gives constant reassurance that each tire is performing exactly as it should be.

Thanks to TX-TRAILERGUARD and TX-TRAILERPULSE telematics, WABCO OptiTire can even deliver tire information directly to fleet depots, allowing them to schedule maintenance as and when required and support drivers on the road.

FLEXIBLE OPTIONS, A QUICK AND EASY RETROFIT

Suitable for both internal and external sensors, WABCO OptiTire is smart and flexible enough to monitor a motor vehicle equipped with internal sensors and a towed vehicle with external sensors (and vice versa).

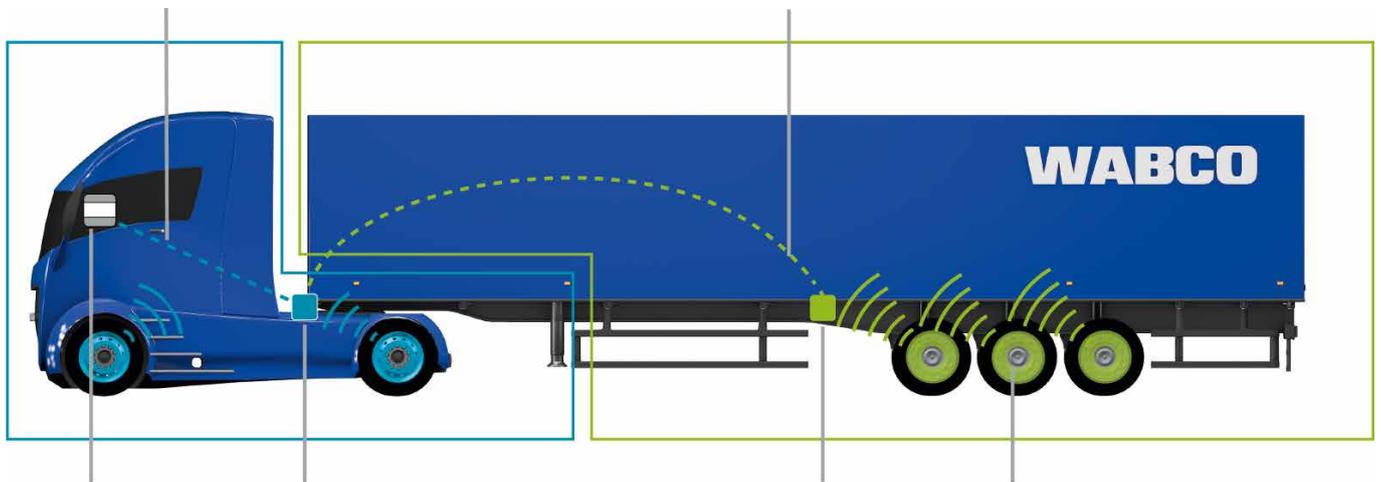
WABCO OptiTire's wireless technology – together with its easy integration with existing systems – means that a retrofit can be completed as part of the vehicle's standard maintenance.

OPTITIRE SYSTEM TRUCK

CAN connection to truck system architecture

OPTITIRE SYSTEM TRAILER

CAN connection to truck and TrailerCAN; Data provision towards SmartBoard, TX-TRAILERPULSE, OptiLink



Display

Truck ECU

Trailer ECU

One Sensor per Wheel



OptiTire external wheel module



OptiTire internal sensor (valve mounted)



OptiTire internal sensor (strap mounted)



OptiTire ECU

OPTITIRE BENEFITS

- Up to 2% fuel saving
- Reduced CO₂ emissions
- Lower fleet running costs
- Helps to maximize tire life
- Improved fleet safety
- Less risk of blowouts
- Reduced breakdowns and downtime
- Improved maintenance predictability
- Trusted and approved by leading OEMs



OPTITIRE FEATURES

- Full Truck-Trailer solution
- Early pressure and temperature deviation warnings
- Long-life batteries (up to 10 years)
- ECU backwards compatible with IVTM™
- Compatibility with WABCO SmartBoard, OptiLink™ and WABCO Trailer Electronic Braking System
- Compatibility with major Truck OEM dashboards
- Integrates with TX-TRAILERGUARD™ and TX-TRAILERPULSE™ telematics

For further details contact your WABCO representative

About WABCO

WABCO (NYSE: WBC) is a leading global supplier of technologies and services that improve the safety, efficiency and connectivity of commercial vehicles. Originating from the Westinghouse Air Brake Company founded nearly 150 years ago, WABCO continues to pioneer breakthrough innovations to enable autonomous driving in the commercial vehicle industry. Today, leading truck, bus and trailer brands worldwide rely on WABCO's differentiating technologies, including advanced driver assistance, braking, steering and stability control systems. Powered by its vision for accident-free driving and greener transportation solutions, WABCO is also at the forefront of advanced fleet management systems that contribute to commercial fleet efficiency. In 2018, WABCO reported sales of \$3.8 billion and more than 16,000 employees in 40 countries. For more information, visit www.wabco-auto.com.



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