

Trailer EBS-E1

Leading the intelligence
and safety revolution



Significantly **REDUCES** semi-trailer tire wear
and fuel consumption

- **REDUCES** risks of **PENALTIES** for overloaded truck axles
- **BETTER MANEUVERING** through curves, roundabouts and at loading bays
- **IMPROVED** building, operating and maintenance **EFFICIENCY** throughout trailer lifetime
- **LOWER ACCIDENT RATES** while driving, maneuvering and loading/unloading

WABCO

WABCO Trailer EBS-E1 – Intelligent Trailer



Thanks to WABCO's close collaboration with trailer builders, fleet managers truck drivers and workshop managers worldwide, the outstanding high braking performance delivered by the WABCO Trailer EBS-E1 is now further enhanced by two programs dedicated to optimizing efficiency and safety.

INTELLIGENT TRAILER PROGRAM

The WABCO Intelligent Trailer Program improves building, operating and maintaining a trailer throughout its lifecycle.



OptiLoad™ ensures intelligent distribution of the cargo weight between truck and trailer axles.

As a trailer's cargo is partially delivered along its route, the remaining cargo can cause excess pressure on the truck's rear axle, beyond the legal maximum weight limit. OptiLoad™ redistributes the load over the truck-trailer combination without physically moving any cargo, by controlling the trailer's suspension system. This function optimizes cargo loads up to 24 tons and helps maintain compliance with regulations.

The benefits:

- Reduced tire wear
- Avoids damage to truck rear tires
- Avoids truck rear axle overload
- Reduces risks of penalties at axle load controls



OptiTurn™ provides intelligent support for maneuvering and steering through curves.

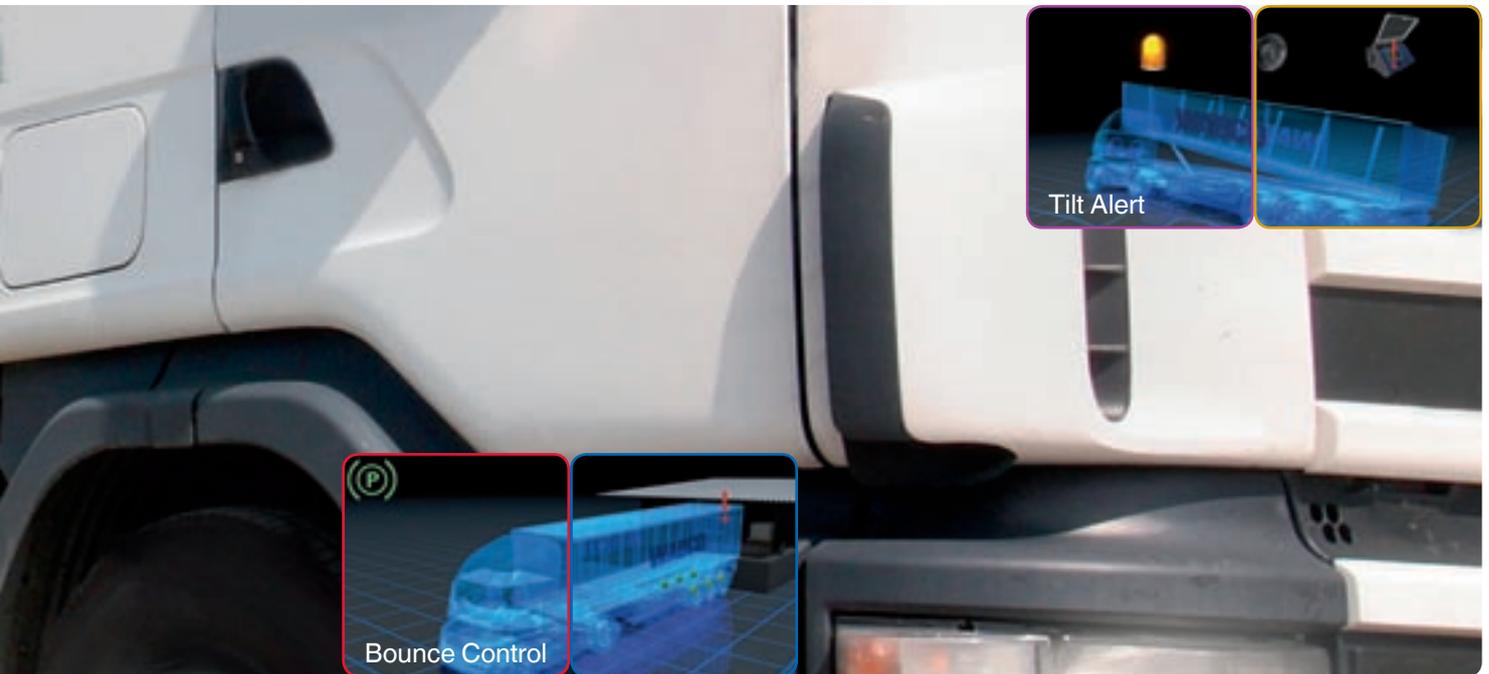
Narrow city streets and crossings, small roundabouts and limited maneuvering space at loading bays are some of the challenges faced while operating a truck-trailer combination. OptiTurn™ helps drivers cope with this complexity while reducing operating costs – even saving the cost of an extra steering axle. At speeds below 30 km/h OptiTurn™ automatically detects corners and curves and either releases rear axle bellows pressure or lifts the rear axle for added steerability during maneuvering. After the curve the axle normalizes its position again.

The benefits:

- Reduced tire wear
- Reduced tire wall damage from street corners
- Reduced cost by eliminating the need for a steering axle
- Simpler turning at crossings and on roundabouts
- Less axle distortion
- Trailer can be dispatched via smaller routes



r and Zero Accident Programs



ZERO ACCIDENT PROGRAM

The WABCO Zero Accident Program aims to reduce the frequency and severity of road accidents involving trucks and trailers while driving, maneuvering and loading/unloading.



Bounce Control prevents trailers from physical bouncing as brakes are released after the cargo has been unloaded.

Typically, drivers apply the parking brakes on a trailer while loading or unloading. Due to the change in cargo weight while the brakes are applied, hidden forces are built up between the chassis and tires. Via the SmartBoard control box, Bounce Control can be activated in order to gently release those hidden forces after loading or unloading, preventing damage or injury caused by the trailer bouncing when the brakes are released.

The benefits:

- Protects the cargo
- Avoids vehicle damage
- Protects the loading station



Tilt Alert helps drivers to unload tipper trailers safely on sloping ground.

When unloading bulk cargo on a non-horizontal surface it is possible for the vehicle to tilt if the trailer's center of gravity oversteps the limit of stability. Tilt Alert warns the driver with an audible alarm signal and / or light indicator when a tilted trailer approaches its physical limits of stability, allowing him to lower the tipper in time to prevent a roll-over and avoid vehicle damage or injuries to people around the trailer. The SmartBoard control box displays the exact angle of inclination.

The benefits:

- Reduced risk of tilting on rough ground
- Intelligent support for both experienced and less experienced drivers
- Avoids damage to vehicles and people
- Reduces the number of work accidents on construction sites
- Adjustable warning limits



	EBS Premium Modulator 480 102 06. 0	EBS Standard Modulator 480 102 03. 0
Zero Accident Program		
ABS System	4S/2M 4S/3M	2S/2M
Roll Stability Support	X	X
Extend EBS Functionality to Drawbar Trailer	X	
Bounce Control	X	X
Tilt Alert	X	X
Link to IVTM-Integrated Vehicle Tire Monitoring system (optional)	X	X
Traction Help	X	X
Intelligent Trailer Program		
OptiLoad™	X	
OptiTurn™	X	
Integrated Electronic Control of Air Suspension (ECAS)	X	
Link to SmartBoard (optional)	X	X
Axle Load Indicator via SmartBoard	X	X
Operating Data Recorder (ODR)	X	X
Design for Quick Mount	X	X
Design for Telematics	X	X
Finisher Brake	X	X

WABCO Vehicle Control Systems (NYSE: WBC) is a leading supplier of safety and control systems for commercial vehicles. For over 140 years, WABCO has pioneered breakthrough electronic, mechanical and mechatronic technologies for braking, stability, and transmission automation systems supplied to the world's leading commercial truck, trailer, and bus manufacturers. With sales of \$2.6 billion in 2008, WABCO is headquartered in Brussels, Belgium. For more information, visit www.wabco-auto.com

When buying a WABCO product, please check that it contains the typical WABCO marks (particularly on the packaging, labels and identification plate) as evidence that it is an original WABCO part. In case you have any doubts, please contact WABCO or an authorized WABCO partner.



WABCO