



OnGuardMAX™

Autonomous Emergency Braking System

Paving the way towards zero accidents













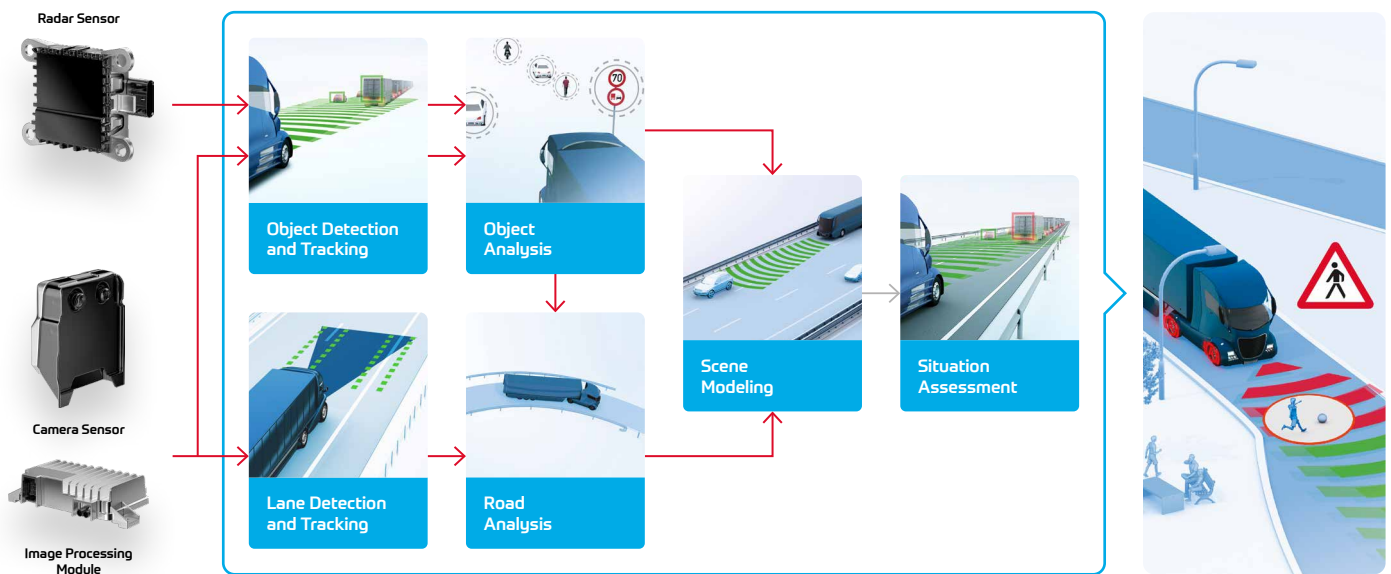
ZF's Most Advanced Emergency Braking System

Specifically designed for commercial vehicles, this technology is able to identify and – if necessary – react precisely to a broad range of moving and stationary objects ahead. Thus, OnGuardMAX is capable of supporting the driver reliably in a variety of dangerous driving situations while effectively reducing the risk of fatal accidents.

Value to Customers

- System tested, validated and released for a wide range of commercial vehicles, including coaches, rigid trucks and truck-trailer combinations
- Designed to comply with latest related safety legislations requiring advanced emergency braking and lane departure warning
- Skilled engineers support customers across the globe throughout the application process
- Advanced object detection and classification allows for outstanding reliability and premium performance
- Helps to avoid fatalities, injuries and accident-related costs
- Helps to optimize vehicle uptime
- Improves driver effectiveness across all levels of experience
- Supports driver acceptance based on premium system performance to help overcome driver shortage

	Vehicles		Motorcycles		Bicycles		Pedestrians	
								
 Warning	✓	✓	✓	✓	✓	✓	✓	✓
 Active Braking	✓	✓	✓	✓	✓	✓	✓	✓

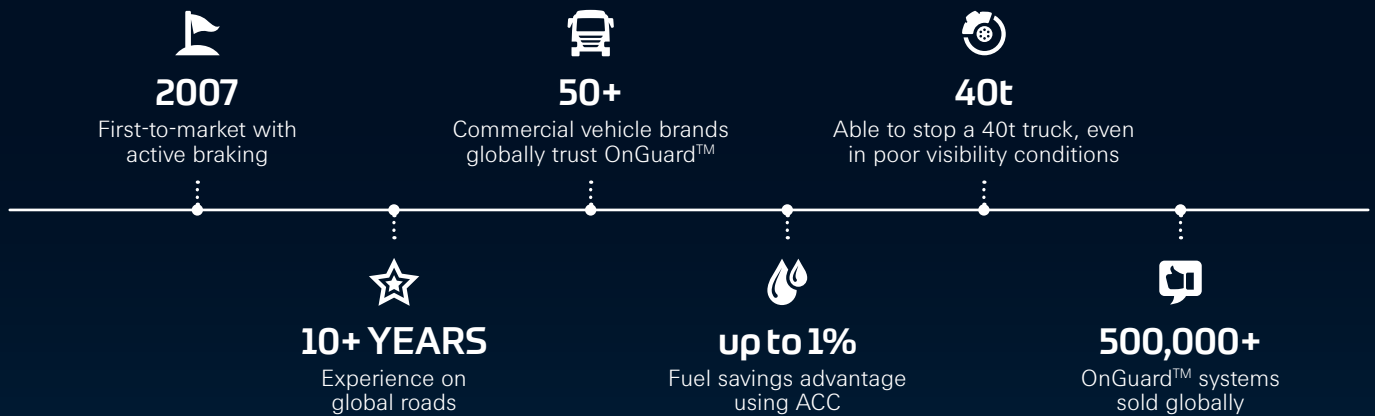


Technical Features

- Relies on sophisticated situational analysis to monitor traffic ahead
- Advanced object classification helps to detect impending rear-end collisions with various moving and stationary objects such as: vehicles, motorcycles, bicycles and pedestrians
- Provides cross-traffic detection of pedestrians, bicycles and motorcycles even in close range situations through wide field-of-view
- Supports the driver with warning and active braking on objects to help avoid fatal accidents
- Performs up to full braking to bring the vehicle to a complete stop when confronted with moving, stopped and stationary objects
- Relies on data integration of state-of-the-art camera and radar sensor:
 - 77GHz radar with speed-dependent adaptive triple-mode beam
 - Dual lens camera with industry-leading 150° field-of-view based on EyeQ®4 chip
- Comes with integrated Lane Departure Warning and high precision Adaptive Cruise Control with enhanced cut-in and cut-out detection

The ZF Difference

- Industry-first commercial vehicle-specific AEBS leveraging dual lens camera with Mobileye's advanced EyeQ®4 technology
- In-house sensor development combined with extensive software engineering and system integration expertise enable premium ADAS functionalities with optimized return-on-invest
- Accompanies OEM customers with long term technology roadmap to help them evolve in accordance to market and regulative requirements
- The unrivaled width of our product portfolio uniquely positions us as a full system supplier to the commercial vehicle industry



For further details contact your sales representative.

About Us

ZF is a global technology company and supplies systems for passenger cars, commercial vehicles and industrial technology, enabling the next generation of mobility. ZF allows vehicles to see, think and act. In the four technology domains Vehicle Motion Control, Integrated Safety, Automated Driving, and Electric Mobility, ZF offers comprehensive solutions for established vehicle manufacturers and newly emerging transport and mobility service providers. ZF electrifies different kinds of vehicles. With its products, the company contributes to reducing emissions and protecting the climate.

ZF, which acquired WABCO Holdings Inc. on May 29, 2020, now has 160,000 employees worldwide with approximately 260 locations in 41 countries. In 2019, the two then-independent companies achieved sales of €36.5 billion (ZF) and \$3.4 billion (WABCO).

With the integration of WABCO, the leading global supplier of braking control systems and other advanced technologies that improve the safety, efficiency and connectivity of commercial vehicles, ZF will create a new level of capability to pioneer the next generation of solutions and services for original equipment manufacturers and fleets globally. WABCO, with almost 12,000 people in 40 locations worldwide, will now operate under the ZF brand as its new Commercial Vehicle Control Systems division.