

WABCO Business Unit Profile

Compression and Braking

WABCO combines its competences in braking and air management systems to offer original equipment manufacturers and aftermarket customers advanced air disc brakes, actuators, air compressors and air processing units. Leveraging its experience in air disc brakes for light and medium sized commercial vehicles, WABCO offers brakes for all categories of commercial vehicles. The new generation single-piston air disc brake, NG22 Plus, is currently the most weight optimized brake available for heavy trucks.

Customers demand innovative air management systems based on proven and environmentally friendly technologies to ensure safety and realize reduced cost of ownership. WABCO has continuously enhanced its range of air compressors and air processing units while reducing their environmental footprint and operating costs. WABCO's innovative compressor range includes the Two-Stage Compressor featuring clean air, fuel and energy saving technologies.

Driveline Controls

WABCO has more than 20 years of experience in driveline controls through cooperation with major truck and transmission manufacturers. Today, WABCO is an industry leader in transmission automation technology for commercial vehicles. In addition to automated manual transmissions (AMT), WABCO's driveline controls portfolio includes innovative clutch controls, integrated pedal units and retarder control systems.

In 1986, WABCO introduced the first electronic transmission automation system and, in 2007, the company produced its one millionth. WABCO combines its broad knowledge of driveline controls, systems integration experience and close cooperation with customers. This capability enables WABCO to offer complete transmission automation systems tailored to an individual customer's requirements.

Trailer Systems

WABCO has presented several industry firsts to the trailer market such as the electronic braking system Trailer EBS and stability controls such as roll stability support (RSS). Extending the company's unmatched experience of more than 700,000 Trailer EBS systems sold since 1998, WABCO's trailer systems offer innovative and flexible technology for the highly diverse trailer industry. WABCO technology innovations aim at combining maximum safety, efficiency and flexibility to meet the needs of thousands of manufacturers worldwide.

With its fully integrated original equipment manufacturer and aftermarket capabilities, the WABCO trailer team can support customers throughout the entire lifecycle of their vehicles.

Vehicle Dynamics and Control

Commercial vehicles are equipped with an increasing array of complex and essential electronic control systems such as anti-lock braking systems (ABS), automatic traction control (ATC), electronic braking systems (EBS), and electronic stability control (ESC) systems, as well as driveline controls.

WABCO pioneered commercial vehicle ESC in 2001, setting a new milestone in commercial vehicle safety. The European Union is expected to mandate ESC technology for new heavy duty commercial vehicles starting in 2012.

Other electronic innovations include the launch of Adaptive Cruise Controls (ACC) for heavy duty trucks in 2004 and the introduction in February 2008 of OnGuard™, the first collision mitigation system (CMS) with active braking for commercial vehicles in North America. At IAA Commercial Vehicles 2008 in Hanover, Germany, WABCO presents OnGuardMax™, the industry's first autonomous emergency braking (AEB) system for collision imminent situations with moving or stopped vehicles.

Aftermarket

The application of increasingly complex electronic vehicle control systems and technologies in commercial vehicles is rapidly rising. This growth is expanding the size of the global commercial vehicle aftermarket. To support fleet and aftermarket customers, WABCO provides an expanding range of support tools, services and training programs. WABCO's investment in state-of-the-art technology such as diagnostic tools strongly contributes to the sustained success of customers and their workshop business.

A comprehensive global service network of more than 400 WABCO Service Centers and over 500 WABCO Service Points offers high standards of quality and service. This network enables WABCO to support customers and their systems and components throughout a vehicle's lifecycle.

Sharing ideas, knowledge and expertise with distributors, workshops and fleet customers continually adds further value. WABCO University provides technical training, e-Learning modules, business training as well as tailor-made consulting services.