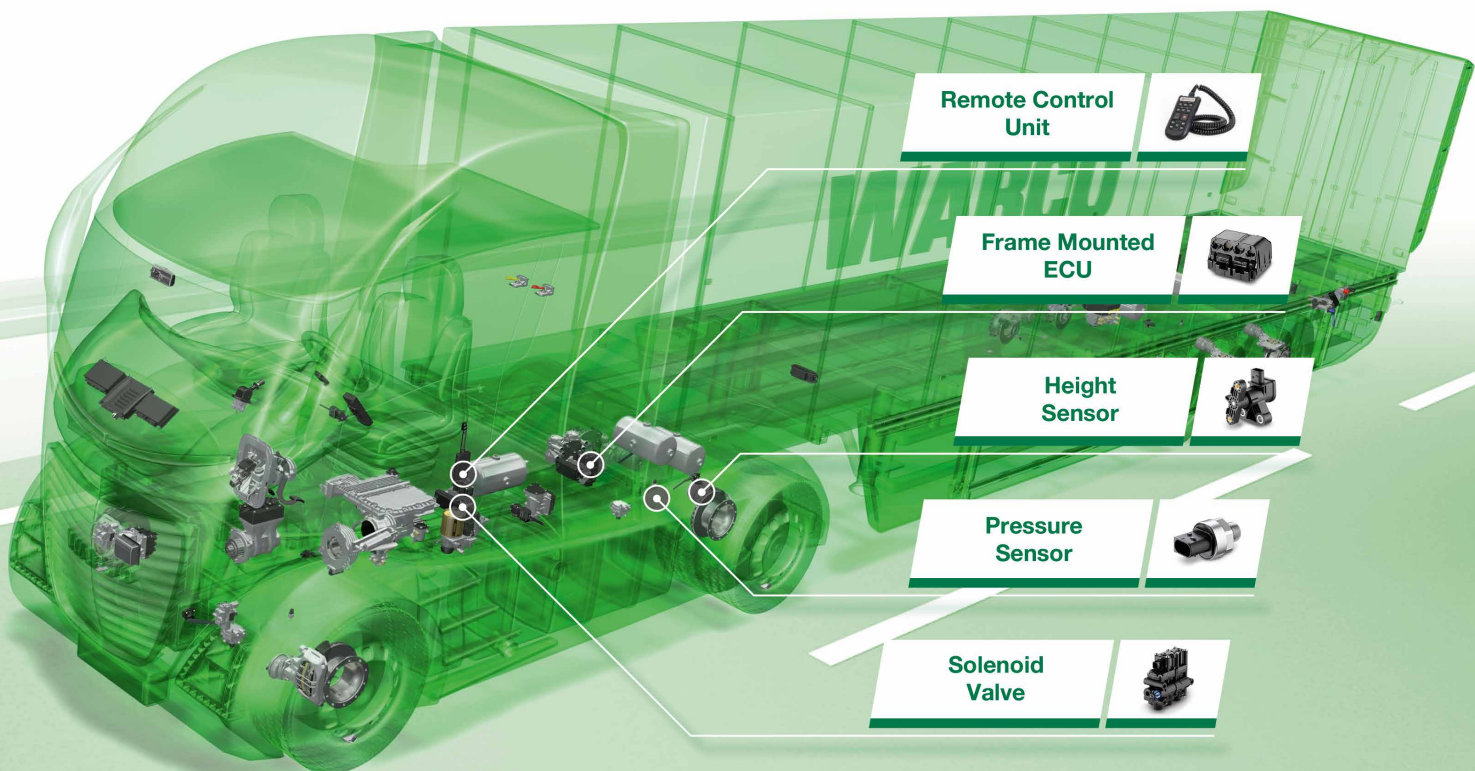


OptiRide™

ELECTRONICALLY CONTROLLED AIR SUSPENSION



VALUE TO CUSTOMERS

- Supports daily routines such as trailer coupling or loading and unloading
- Increases driver safety and comfort while supporting landing gear operations
- Ensures excellent cargo treatment

WABCO

Mobilizing Vehicle Intelligence

TECHNICAL FEATURES AND COMPONENTS

- Provides electronic control of air suspension systems
- Optimizes the vehicle's chassis height on air-suspended axles
- Offers quick & easy height adjustment via dashboard switch or remote control unit
- Ensures automatic return-to-ride height after drive-off
- Worldwide application support for both 24V and 12V systems

ELECTRONIC CONTROL UNIT



- Monitors and evaluates incoming signals from sensors
- Initiates corresponding actions by the solenoid valve
- Allows for customized parametrization of functions
- Software design enables modular system upgrades
- Enables access to internally compiled operating data
- Housing design enables stacking with Solenoid Valve

REMOTE CONTROL UNIT



- Wired high-end RCU attached to cabin
- Dedicated for ECAS functionality on trucks
- Standardized interface with LIN protocol
- Protected against environmental influences through IP64 protection

SOLENOID VALVE



- Activated by the ECU to control bellow pressure precisely
- Composite body design for durability and low weight
- Durable design allows for a specified one million activations
- Comes with three fixation points to support stacking

PRESSURE SENSOR



- Measures bellow pressure on air suspended axle
- Piezoresistive measurement principle enables high measuring sensitivity
- Operates within a pressure range of 0bar to 16bar
- Designed to perform within a temperature window of -40°C to 100°C

HEIGHT SENSOR



- High linearity leading to very high measurement precision
- Converts measurement results into electric signals to transmit to ECU
- Supports flexible positioning inside the vehicle

THE SYSTEM'S VALUE-ADDING FUNCTIONALITIES



AXLE LOAD MONITORING

- Detects axle load of the vehicle's air suspended axles
- Enables display of axle load information on the dashboard
- Allows for warning of the driver in case of overload



TRACTION HELP

- Detects imminent traction-loss
- Temporary load transfer through maximized utilization of permissible axle loads
- Available as automatic feature
- Enables switch from 6x4 to 6x2 axle configuration



HEELING

- Provides the ability to raise the rear of the tractor chassis above ride height
- Allows for quick and easy unloading of liquid goods



DIFFERENT DRIVING LEVELS

- Different levels of vehicle height adjustable through lifting and lowering
- Flexible pre-set done according to specific OEM requirements
- Manually adjustable via dashboard switch during driving
- Adjusts vehicle height automatically depending on speed



QUICK DROP & HOOK

- Provides rapid and seamless raising and lowering of the tractor chassis to ease trailer coupling and uncoupling process
- Offers easy manual operation via dashboard switch or RCU
- Alleviates load from the landing legs by the push of a button instead of the labor intensive manual crank
- Automatic return-to-ride height after manual adjustment of chassis height



MEMORY LEVELS FOR LOADING/UNLOADING

- Adapts vehicle height at loading ramp to different ramp heights
- Option to save and reproduce up to 4 levels of recurring loading ramps



LIFT AXLE CONTROL

- Load-dependent lifting and lowering of the non-driven rear axle of a 6x2 truck
- Available as automatic feature or to be requested via dashboard switch or RCU



THE WABCO DIFFERENCE

- World-market leading solution with over 3.5 million OptiRide ECAS systems sold globally
- Winner of “HDT Top 20 Products of 2013” as well as “TWNA Technical Achievement Award 2012” integrated with Meritor’s FUELite™ tandem axle
- Comes with modular and scalable technical design

For further product 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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