

# SUSPENSION SYSTEMS

**making everyday smoother**



**VB-AIRSUSPENSION SUPPORTS YOU,  
IN EVERY EMERGENCY.**

**Emergency service vehicles**  
*Ambulances, police and fire service vehicles*



BECAUSE EVERY SECOND COUNTS.



## WORKING TOGETHER CAN SAVE LIVES.

Vehicles such as ambulances, police and fire service vehicles – also known as emergency service vehicles – regularly travel fully laden and are kitted out with high-tech, heavy equipment essential for providing professional emergency assistance. Emergency service vehicles must always be ready to go. For example, an ambulance must reach the patient and transport them to the hospital as soon as possible. Whatever the emergency, travel to and from the site of the incident should be as safe and stable as possible.

IN CASE OF AN INCIDENT OR EMERGENCY, THE DRIVER SHOULD BE FOCUSING ON ONE THING ONLY:  
THE ROAD AHEAD.

Our intelligent air suspension systems and suspension applications ensure that emergency service vehicles remain stable and easily manoeuvrable under all conditions, even when heavily laden. With them, the vehicle is less sensitive to crosswinds and unevenness in the road surface, leans less when cornering and responds well even during sudden evasive or braking manoeuvres. These advantages enable the vehicle to travel to and from emergencies more efficiently, quickly and safely than with a traditional suspension system. This is combined with a high payload and maximum comfort for medical personnel and other emergency workers – and, of course, the patient, if the vehicle in question is an ambulance.

Our air suspension systems' short lowering and raising times assure emergency workers of easier and faster access to the vehicle for loading and unloading firefighting equipment or a stretcher, for example. It's even possible to set default heights for loading and unloading. Our many years of experience make us a solid partner for manufacturers and producers, and we are always thinking in terms of solutions.



Emergency service vehicles are visible and audible from afar as they rush to acute emergencies with lights flashing and sirens blaring. We all know that these vehicles are critical to saving life and limb, and in an emergency, they must be able to get to the patient or possibly life-threatening incident as fast as humanly possible. This is only achievable when the driver can rely on their vehicle to **perform at its best** and be **easily manoeuvrable**. Despite every effort, it would appear fulfilling this requirement is far from a given. Our innovative air suspension systems and suspension applications help ensure **shorter response times** and **fast, safe trips** to emergencies and incidents.





OUR AIR SUSPENSION SYSTEMS REDUCE PHYSICAL DEMANDS ON MEDICAL AND OTHER EMERGENCY WORKERS. THE SHORT LOWERING AND RAISING TIMES AFFORDED BY THESE SUSPENSION SYSTEMS MAKE IT EASIER TO LOAD AND UNLOAD EQUIPMENT WHEN THEY'RE MOST NEEDED.

# GET A BETTER GRIP ON THE SITUATION WITH VB-AIRSUSPENSION.

Our air suspension systems are fully automatic (adjustable) solutions to suspension problems. The traditional suspension is replaced by a full air suspension system that compensates for unevenness in the road surface, thereby increasing driving comfort. The vehicle stays as stable as possible while transporting patients, emergency workers, other occupants and high-tech equipment. Furthermore, the braking distance is shorter, helping to ensure greater safety and reducing carbon emissions.

**MEDICAL PERSONNEL AND OTHER EMERGENCY WORKERS SHOULD BE ABLE TO CONCENTRATE ON SAVING LIVES.**

The system has a feature to lower and kneel the vehicle when stationary, making it easier to enter and exit. The height of the rear of the vehicle can be adjusted automatically. It's even possible to set default heights for loading and unloading, making it easier to load or unload equipment as required. Not only that, an air suspension system weighs less than a tail lift.

The short lowering and raising times of VB-Airsuspension systems give emergency workers easier and faster access to the emergency service vehicle when loading and unloading, e.g. firefighting equipment or a stretcher. In this way, air suspension makes the demanding jobs of emergency workers that much easier.

**THE BEST SOLUTION FOR MANY 'BLUE LIGHT' VEHICLES: FULL AIR SUSPENSION.**

A full air suspension system is a real boon for an emergency service vehicle. Extreme discomfort caused by potholes and bumps in the road becomes a thing of the past, the vehicle feels more stable, vehicle drift and leaning are no longer an issue and entry, loading and unloading heights can be changed at any time at the touch of a button. It also helps to save time for emergency workers needing to act in an emergency situation. Arrive at your destination quickly and safely thanks to high vehicle stability, exceptional ride comfort, useful features and optimum driveability.



	Increases ride height	Minimises sagging	Reduces vehicle roll	Improves suspension comfort	Improves driving characteristics	Increases safety	Improves stability	Control options
<b>VB-FULLAIR</b> Full air suspension	++	++	++	++	++	+	+	++
<b>VB-COILSPRING</b> Helper and reinforced springs	++	+	++	+	+			
<b>REINFORCED STABILISERS</b> VB-SpecialParts		++	++		+		+	
<b>REINFORCED SHOCK ABSORBERS</b> VB-SpecialParts			+	+	+			
<b>VB-FSDSHOCKABSORBER*</b> VB-FSD technology			++	++	++			
<b>VB-FSDSTRUT**</b> VB-FSD technology	++	+	++	++	++			

\* The VB-FSD shock absorber is a shock absorber for both the front and rear axle.  
 \*\* The VB-FSD strut is a combination of a VB-FSD shock absorber and VB-CoilSpring for the front axle. It is only available for a PFC X250 or X290 chassis.

- BENEFITS OF VB-FULLAIR**
- REDUCES PHYSICAL DEMANDS ON MEDICAL PERSONNEL AND OTHER EMERGENCY WORKERS
  - SHORT LOWERING AND RAISING TIMES WHEN LOADING OR UNLOADING HEAVY OR HIGH-TECH EQUIPMENT
  - LOW WEIGHT OF AIR SUSPENSION SYSTEMS RELATIVE TO TAIL LIFT
  - FAST, SAFE RIDE THANKS TO HIGH VEHICLE STABILITY, EXCEPTIONAL RIDE COMFORT AND OPTIMUM DRIVEABILITY

DELIVER FIRST AID WITH IMPROVED STABILITY,  
INCREASED COMFORT AND GREATER SAFETY.



HEAD TO OUR WEBSITE  
[WWW.VBAIRSUSPENSION.COM](http://WWW.VBAIRSUSPENSION.COM) AND  
SEE FOR YOURSELF JUST HOW EASY  
IT IS TO USE OUR PRODUCT FINDER  
AND THE VB WIZARD.



## VB-AIRSUSPENSION IS ACTIVE WORLDWIDE.

As a leading company undergoing rapid growth, we want people all across the globe to benefit from our premium suspension applications and (air) suspension systems. Why? Because this ensures more comfort, better handling and greater safety. In other words: we make life around us a smoother ride.

### MAKING EVERYDAY SMOOTHER.

In line with this motto, we get the best out of ourselves every day for our customers – and we've been very successful so far! We have been amassing experience since 1993 and are now a leading adviser, developer and supplier of (air) suspension systems for light to medium-duty commercial vehicles.

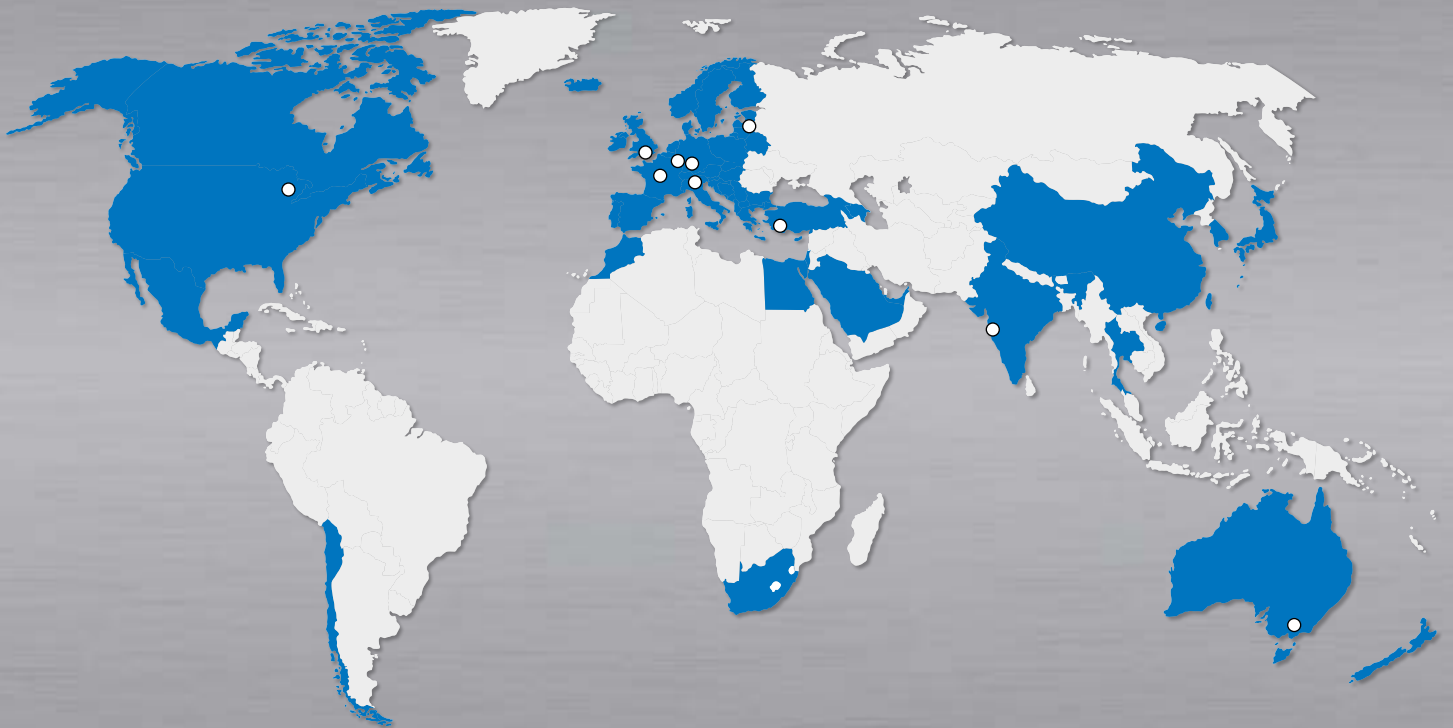
When the term 'light to medium-heavy commercial vehicles' is used in the automotive industry, this means vehicles with a GVW (gross vehicle weight) of 1,750 to 7,500 kilograms. The chassis of these 'basic vehicles' provides the basis for all manner of applications: from emergency service vehicles and motorhomes to car transporters and wheelchair-accessible vehicles.

Thanks to our enthusiastic and motivated team, we are happy to work on these solutions every day - worldwide. Our Innovation & Technology Centre is where we develop, test and sell our products. Our Logistics Centre is the central location for our production and logistics processes. It is also where purchasing and quality control find their home.

### WE CREATE THE NEXT LEVEL IN VEHICLE DYNAMICS.

Our product portfolio ranges from reinforced springs to full air suspension solutions with active shock absorbers for front and rear axles. We are especially proud of our official recognition from big names such as Mercedes-Benz, Volkswagen, Ford and Renault – the highest recognition that an accessory specialist can receive from a vehicle manufacturer. TÜV approvals and „letters of no objection“ (LONO) mean that our products are also available for a number of other vehicles.

- MORE THAN 30 YEARS' EXPERIENCE
- TWO HEAD OFFICES IN VARSSEVELD: INNOVATION AND TECHNOLOGY CENTRE & LOGISTICS CENTRE
- MORE THAN 200 ENTHUSIASTIC EMPLOYEES
- 8 SUBSIDIARIES WORLDWIDE
- REPRESENTED BY PARTNERS IN 42 COUNTRIES
- SUPPLYING TO MORE THAN 60 COUNTRIES
- MORE THAN 375 VB-PARTNERS
- OVER 900 TRAINED SPECIALISTS
- AROUND 300,000 (AIR)SUSPENSION SYSTEMS SOLD



## DISCOVER OUR PRODUCTS.

Our products find their way to satisfied users through an extensive network of international partners and dealers. Our partners and dealers are authorised specialists that have received extensive training in the installation of our products and in the provision of a high-quality service and appropriate advice.

To find your nearest partner or dealer, visit [www.vbairsuspension.com](http://www.vbairsuspension.com).