



SUSPENSION SYSTEMS

making everyday smoother



airsuspension



- Increased comfort • Better driveability • More safety



EMERGENCY RESCUE VEHICLES



Safe and comfortable ride

Everything is under control with the suspension systems of VB-Airsuspension

Well-prepared for call-outs

Being well-prepared is key to ensuring that things run smoothly when an emergency service vehicle is called out. The equipment required for the rescue work is not the only crucial aspect in this regard – the vehicle as well as its suspension system also need to be in a sound condition.



Invisible essence

A good suspension spring is far away, hidden under the vehicle. You will not see it, but it is an essential component for comfortable and safe driving. After all, the suspension represents the mechanical/pneumatic link between the road and your emergency service vehicle.

Increased comfort

Driving on unfamiliar and, in some cases, poorly surfaced roads places great demands on the driver and vehicle alike. The comfort provided by the air suspension system brings calm to the vehicle and ensures that you, your colleagues and any patients have a relaxing and safe journey.

Better driveability

Thanks to the constant ride height of the air suspension system, the emergency service vehicle handles in a predictable and stable manner. The 2-, 3- or 4-corner control provides a level / horizontal position, regardless of load, thereby reducing any weight imbalance.

More safety

The air suspension systems from VB-Airsuspension increase the stability of the vehicle in cross winds, when cornering and during unexpected incidents, such as evasive manoeuvres.



- Leaning
- Sagging
- Reduced comfort
- Poor driving characteristics
- Less safety



Approvals

VB-Airsuspension products have been developed together with various vehicle manufacturers and meet their high quality requirements. Approvals from several vehicle manufacturers are available to view on request.



Your benefits:

- ✓ Constant ride height
- ✓ Avoidance of “sagging”
- ✓ Avoidance of „leaning“
- ✓ Increased comfort
- ✓ Better driveability
- ✓ Increased stability
- ✓ More safety

Full air suspension VB-FullAir

Driving at the limit

Comfortable and safe driving is very important, particularly for emergency service vehicles. One of the distinguishing features of this type of vehicle is that the journeys differ greatly, meaning the requirements placed on the suspension system also vary enormously. Maximum comfort and smoothness may be required in one journey, whereas high speed and stability may be required for another. Most rescue vehicles are loaded up to (and sometimes even beyond) the maximum permitted weight, which significantly affects ride comfort and safety.



Dynamics

Emergency service vehicles are often based on commercial vehicle chassis and have suspension systems designed for payload and not necessarily for comfort and stability.

A number of different parameters affect the driving dynamics of an emergency service vehicle, with the 'load' and type of journey playing a key role. Vehicle optimisations from VB-Airsuspension increase comfort and stability thanks to the wide range of suspension systems and tailored solutions. All systems ensure that the emergency service vehicle handles in the best possible manner with respect to the aspects each system controls. You won't recognise your vehicle any more.

Special features of the VB-FullAir System

Comfort

The automatic level control function ensures that the vehicle is always at the ride height set by VB-Airsuspension. Regardless of the load being carried, the vehicle is almost horizontal and is set to the optimal spring travel, thus maximising comfort.

Lowering and raising

The air suspension can be brought to its lowest position at the touch of a button, which is a useful feature on ambulances, for example, as it makes it easier to load and unload patients on stretchers or trolleys.

Stability

The use of special shock absorbers and roll stabilisers gives the vehicle very stable driving characteristics. It remains controllable and above all safe, even when travelling at high speeds, cornering and performing special manoeuvres. The system is compatible with the ESP system in the vehicle.

Extra time module*

This function ensures that the air suspension system remains active for one hour after the ignition has been switched off. This means that the air suspension system can be operated without needing to put the keys in the ignition.



Connection to the automatic snow chains

The compressor system with VB-Airsuspension control software has been developed in such a way that it can work optimally with the Onspot automatic snow chains from VBG Truck Equipment.



All under control

The full air suspension kits from VB-Airsuspension come with a sophisticated remote control or a single control switch, placing all the functions of the suspension system within easy reach.



Versatile

The VB-FullAir systems are highly versatile and provide outstanding comfort in any situation.

Raising

Extra control switch **

Lowering

Off Road **

Extra time module *

Sport **

Emergency valves *

optional *
for 4-corner air suspension **








(Client references)

“... Thanks to the suspension systems from VB-Airsuspension, I can have full confidence in my vehicle when driving at high speed and maximise safety when on the move. Working together with my colleagues, we are able to transport the patient in a comfortable and stable manner. Just like the patients we transport, we as paramedics are enthusiastic about the air suspension systems from VB-Airsuspension.”



Mr. Evert de Lange, ambulance driver
– after having the VB-FullAir 2C system fitted to his ambulance

Modification	Increasing ride height	Avoidance of “sagging”	Avoidance of “leaning”	Improving suspension comfort	Improving driving characteristics
VB-FullAir full air suspension 	✓ 1	✓ 2	✓	✓	✓
VB-SemiAir semi air suspension 	✓	✓ 2	✓ 5	✓ 5	-
VB-CoilSpring Auxiliary/reinforcement springs 	✓	-	✓ 4 & 5	✓ 5	-
VB-SpecialParts Reinforced stabilisers 	-	✓ 3	✓	-	✓
VB-SpecialParts Reinforced shock absorbers 	-	-	✓ 3, 5 & 6	✓ 6	✓

✓ This product is best suited for this problem.

✓ This product is less suitable for this problem.

1. Possibility to lower the rear of the vehicle.
2. Only with dual control (to a limited degree).
3. To a lesser degree.

4. At the expense of ride comfort.
5. Depends on the starting point.
6. Damps the oscillating movement.

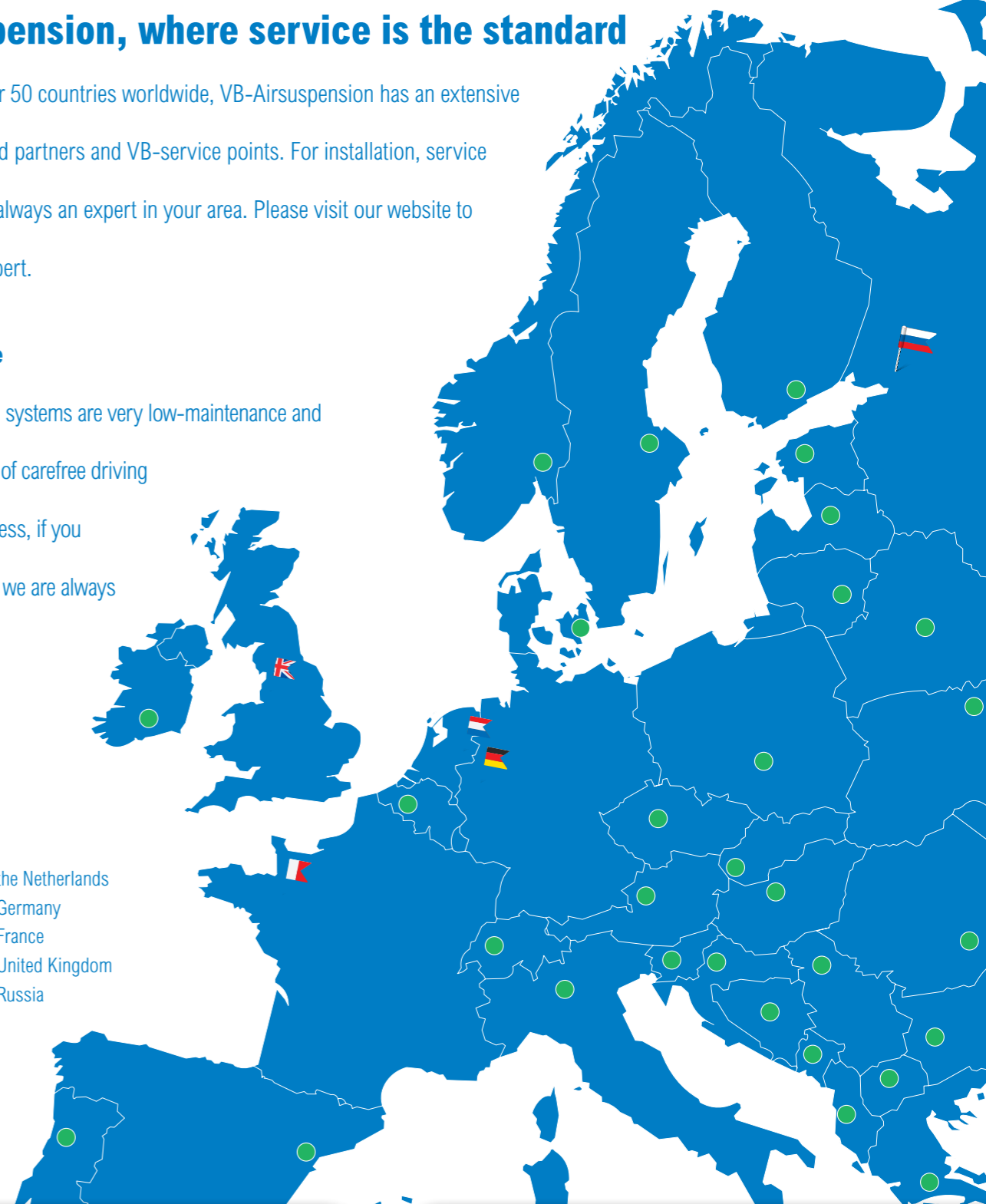
VB-Airsuspension, where service is the standard

With partners in over 50 countries worldwide, VB-Airsuspension has an extensive network of authorized partners and VB-service points. For installation, service and advice, there is always an expert in your area. Please visit our website to find your nearest expert.

Low maintenance

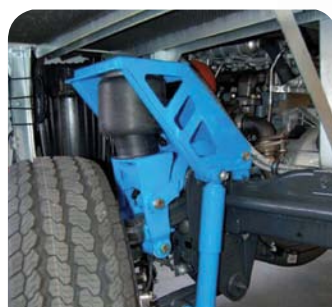
All VB-Airsuspension systems are very low-maintenance and offer you many miles of carefree driving enjoyment. Nevertheless, if you encounter a problem, we are always there for you.

-  VB-Airsuspension the Netherlands
-  VB-Airsuspension Germany
-  VB-Airsuspension France
-  VB-Airsuspension United Kingdom
-  VB-Airsuspension Russia
-  VB-Partner





VB-Airsuspension is one of the few European manufacturers producing a wide range of (air) suspension systems. From semi air suspension and simple reinforced coil spring suspension to full air suspension systems, we offer customers the ideal solution for a range of applications, such as ambulances, car transporters, motorhomes, 4x4 vehicles and pick-ups. Now you can see why an increasing number of truck and body manufacturers are incorporating VB-Airsuspension's systems in their own ranges.



Dealer:



VB

airsuspension



www.vbairsuspension.com



72240051000EN05