

SUSPENSION SYSTEMS

making everyday smoother



airsuspension



DISCOVER THE POSSIBILITIES OF VB-AIRSUSPENSION

BETTER SAFETY AND COMFORT ON THE ROAD.

VB-ActiveAir

***Full air suspension with
active shock absorbers***

THE SYSTEM ADAPTS PERFECTLY TO THE DRIVING SITUATION.



BY MEANS OF ACTIVE DAMPING, YOU CAN RESPOND TO DRIVING SITUATIONS IN REAL TIME.

VB-ActiveAir: VB-FullAir 4C in combination with VB-DynActive

Our VB-ActiveAir system is a combination of a full air suspension system (VB-FullAir 4C) and adaptive shock absorbers (VB-DynActive). This intelligent suspension and shock absorber system adapts in real time to the condition of the road surface, driving characteristics and the load.

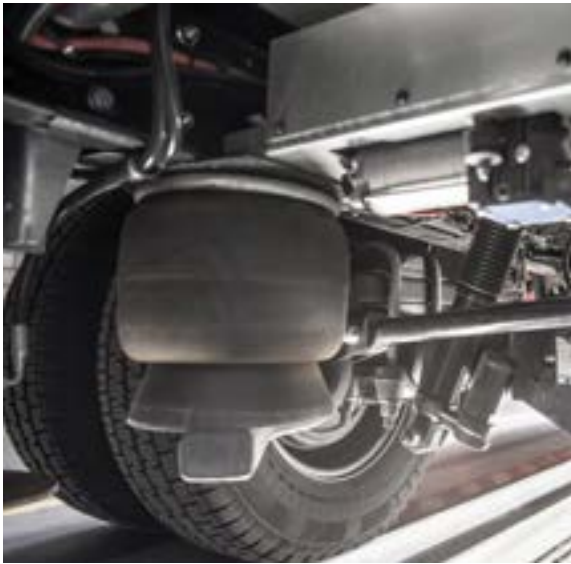
The system ensures better handling as well as a more comfortable and safer trip. The air suspension compensates for varying load states by means of the air pressure in the air springs, and the variable shock absorbers control damping via a valve in the shock absorber. The shock absorbers can be adjusted from minimum damping force to maximum damping force in 6 milliseconds, allowing you to alternate between more sporty handling and a comfortable driving experience as required.

SPORTY, SAFE OR COMFORTABLE. WHY SHOULD YOU HAVE TO CHOOSE?

We believe it's important that the suspension system should adapt to the driver and not the other way round. The system remembers cornering speeds and braking manoeuvres and adjusts the shock absorbers based on your driving style, no matter how the body is configured. So, in Sport mode the ride is automatically made more comfortable when the driver slows down and in Comfort mode the vehicle automatically provides better handling when taking fast bends. The system has three different driving modes (Standard, Comfort and Sport) and can be operated using a switch. Of course, all of the functions of the VB-FullAir 4C system are also available for this system. Two systems: double the benefit!

	Increasing the ride height	Minimising sagging	Reducing vehicle roll	Improving suspension comfort
VB-ACTIVEAIR*	++ ++	++ ++	++ ++ ++	++ ++ ++
Full air suspension with active shock absorbers				
	Improving driving characteristics	Increasing safety	Improving stability	Minimising fuel consumption
	++ ++ ++	++ ++	++ ++	++ ++

* At present, VB-ActiveAir is only available for motorhomes with an Iveco Daily 60C-70C chassis, as an upgrade kit and as a new kit. The system is under development for a number of vehicle makes and models.



A VB-ACTIVEAIR SYSTEM IS OFTEN FITTED TO MEET THE FOLLOWING REQUIREMENTS:

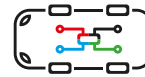
- INCREASED RIDE HEIGHT
- REDUCED OFF-CENTRE LEVEL
- REDUCED VEHICLE ROLL
- IMPROVED SUSPENSION COMFORT
- IMPROVED DRIVING CHARACTERISTICS
- INCREASED SAFETY
- IMPROVED STABILITY
- CONTROL OPTIONS (E.G. VEHICLE CAN BE RAISED/LOWERED)



WHAT IS VB-ACTIVEAIR?

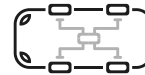
Our VB-ActiveAir system is a combination of a full air suspension system (VB-FullAir 4C) and adaptive shock absorbers (VB-DynActive). This combination offers all the possibilities of the VB-FullAir 4C system in combination with three different driving modes (Standard, Comfort and Sport).

VB-FullAir 4C



+

VB-DynActive



=

VB-ActiveAir = (VB-FullAir + VB-DynActive)



BENEFITS OF VB-ACTIVEAIR:

- 15% SHORTER BRAKING DISTANCE
- INCREASED STABILITY
- LESS ROLLING RESISTANCE
- THE VEHICLE LEANS LESS
- LESS SIDeways MOVEMENT
- LESS CROSSWIND SENSITIVITY
- UP TO 10 TEN TIMES MORE DAMPING THAN WITH STANDARD SHOCK ABSORBERS
- AUTOMATICALLY ADAPTS TO THE CONDITION OF THE ROAD SURFACE



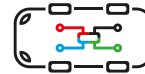
VB-FULLAIR 4C - MOTORHOME

	AutoLevel – includes a digital levelling function that can be used to set your vehicle level (as far as the spring travel permits).	< 30 km/h	<p>The Ferry, Off Road and Parking functions let you temporarily adjust the ride height at a maximum speed of 30 kilometres an hour. The other functions can only be operated when the vehicle is at a standstill.</p>
	Ferry – the rear is raised to the maximum level, for example to make the vehicle easy to drive onto a ferry.	< 30 km/h	
	Off Road – increase of around 30 mm for greater ground clearance on rough terrain.	< 30 km/h	
	Parking – lower the vehicle to virtually the maximum level to make it easier to get in and out. You can also use this function (depending on the original vehicle height) to reduce the ride height in order to enter a car park with a low roof or to drive under a gate.	< 0 km/h	
	Water discharge – tilts the vehicle to the side with the water discharge to allow the wastewater tank and the toilet tank to be fully emptied.	< 30 km/h	
	Manual control to vary the loading/unloading height.	< 0 km/h	
	Load space – the front axle is automatically raised and the rear is lowered to the maximum level to make it easy to load and unload the vehicle at the rear.	< 0 km/h	

THE RIGHT COMBINATION.

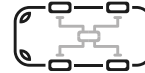
VB-FullAir 4C

VB-FullAir 4C is a complete air suspension system on the front and rear axle of the vehicle. 4-Corner indicates that four height sensors are fitted: two on the front axle and two on the rear axle.



VB-DynActive

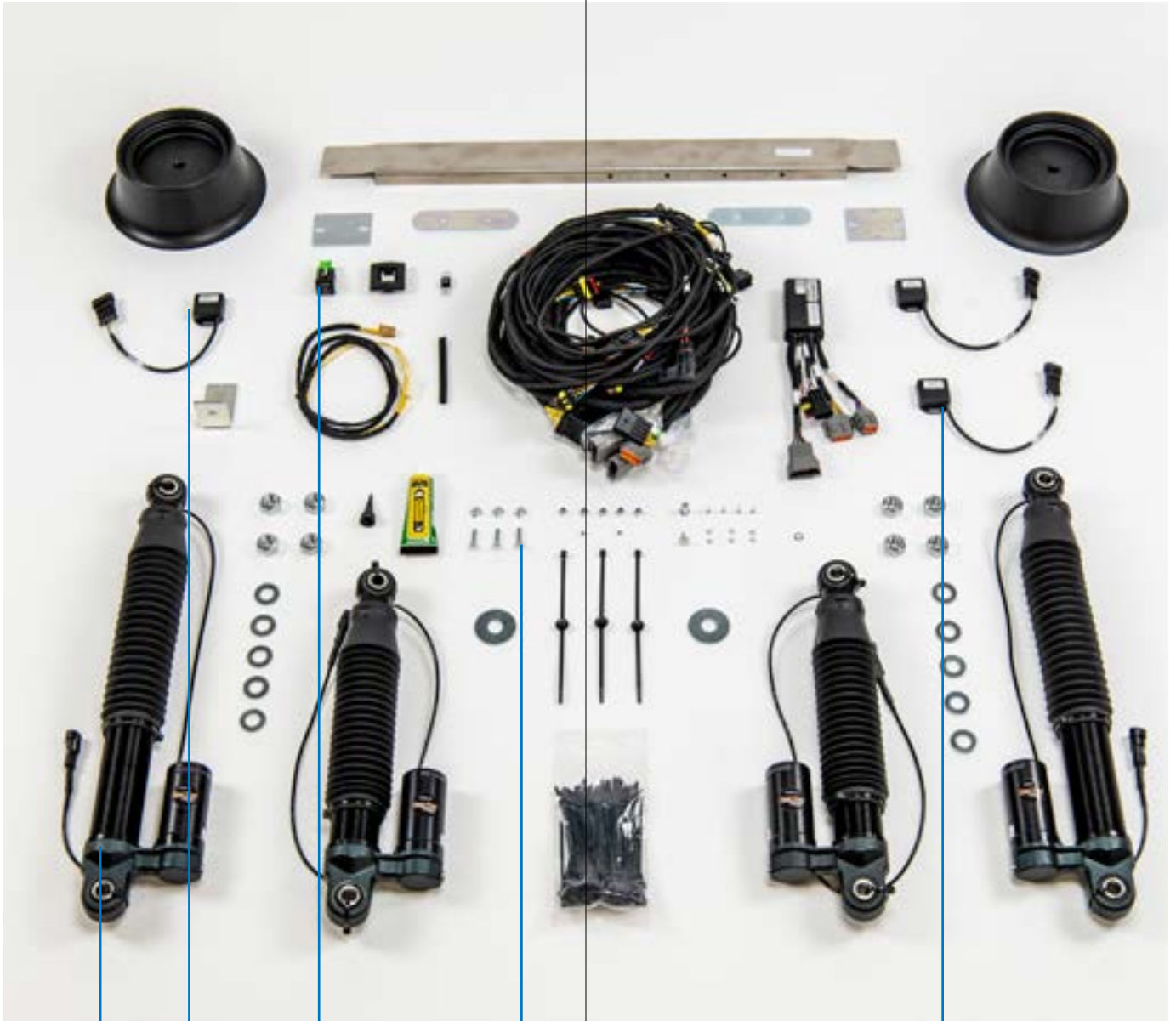
VB-DynActive are active dampers that can be switched from minimum damping force to maximum damping force within 6 milliseconds. This is done with a special valve mounted in the shock absorber.



THE VB-ACTIVEAIR KIT CONSISTS OF:

Set photo VB-DynActive: see pages 8 and 9

1	Active shock absorbers	+
2	Sensor	+
3	Height sensors	+
4	Fasteners	+
5	Switch	+
+	Air springs	+
+	Main springs	+
+	Remote control	+
+	VB-ASCU (control unit)	+
+	Fitting instructions	+
+	User manual	+
+	Approval documentation	+
+	Air tank	+



1

2

5

4

3



ONE MOMENT YOU'RE DRIVING SMOOTHLY OVER AN UNEVEN ROAD SURFACE AND THE NEXT YOU'RE EFFORTLESSLY SWERVING TO AVOID AN OBSTACLE.



EXPAND VB-ACTIVEAIR WITH OUR OPTIONAL EQUIPMENT.

Emergency valve kit

The VB-ActiveAir system can be pressurised by means of filling valves in the event of a possible electronic failure or a defect in the compressor. The vehicle can be brought up to driving height again by means of an external air supply so that the journey can be continued.

'Extra time' module

This module in VB-ASCU ensures that the air suspension remains active for one hour after the ignition is switched off. The vehicle's ignition can therefore be switched off, while all the functions of the air suspension remain active.

Additional switch

This is an additional switch that allows the high/low function of the air suspension to be controlled from a different location in the vehicle, for example at the rear door. The advantage of this is that the driver does not have to walk to the cabin to operate the air suspension.

VB-AutoLevel

This module allows the vehicle to be positioned horizontally, even when the vehicle is standing on uneven ground. At the push of a button, the vehicle can be levelled quickly and easily. Unevenness of more than 10 cm can be corrected (depending on the type of vehicle).

Our products fall into one of four product groups. These product groups contain a variety of systems for many different makes and models, meaning that there is always a suitable solution for you.



FULL AIR SUSPENSION



SEMI AIR SUSPENSION



HELPER AND REINFORCED SPRINGS



SPECIAL COMPONENTS



THE IDEAL SOLUTION.

Product Finder

Is extensive expertise a requirement when looking for a suitable solution for your vehicle? *Certainly not.* Our website's Product Finder is the perfect tool to help you find the best solution for your vehicle. Simply enter some basic data about the vehicle in question and set out your specific issues and/or preferences to determine the most suitable vehicle solution. If the list of issues and/or requirements in our Product Finder seems overly extensive, that is because we offer just the right solutions for many issues and requirements.

VB-Wizard

Does this make it hard for you to know which issue or requirement to focus on in order to determine the most suitable solution for your vehicle? *We understand.* If that is the case, we recommend using our VB-Wizard. On our website, you will find the VB-Wizard at the bottom right in our Product Finder. This feature goes through the most common issues and/or requirements with you step by step, with detailed descriptions (and animations) to make everything recognisable.

HEAD TO OUR WEBSITE AT WWW.VBAIRSUSPENSION.COM AND SEE FOR YOURSELF JUST HOW EASY IT IS TO USE OUR PRODUCT FINDER AND THE VB WIZARD.

Once you have established a top three of suitable VB products for your vehicle, simply request your quote from one of our local VB Partners. If you have any further questions, our VB-Partners will be happy to help you!





**WE MAKE EVERY JOURNEY
A GOOD ONE.**



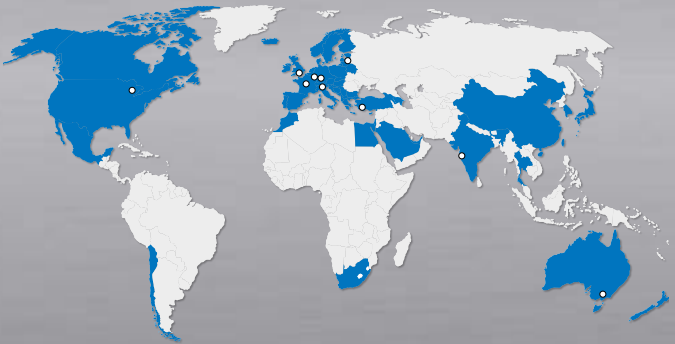
VB-AIRSUSPENSION IS ACTIVE WORLDWIDE.

As a leading company experiencing rapid growth, we want all our customers across the globe to benefit from our premium suspension applications. These suspension applications provide improved comfort, better driving characteristics and improved safety, in turn making every day smoother.

MAKING EVERYDAY SMOOTHER.

According to this motto, we aim to provide our customers with the best possible service – and we've been very successful so far! After all, our highly motivated team has been developing and building suspension applications and various air suspension systems for light commercial vehicles, ambulances, car transporters, motorhomes, 4x4 vehicles and off-road vehicles for more than 30 years. 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, Renault, Stellantis and AL-KO – the highest recognition that an accessory specialist can receive from a vehicle manufacturer. TÜV approvals and 'Letters Of No Objection' (LONO) from various vehicle manufacturers mean that our products are also available for other vehicles.

- MORE THAN 30 YEARS OF EXPERIENCE
- MORE THAN 200 ENTHUSIASTIC EMPLOYEES
- 8 SUBSIDIARIES WORLDWIDE
- REPRESENTED BY PARTNERS IN 42 COUNTRIES
- DELIVERY TO MORE THAN 60 COUNTRIES
- MORE THAN 375 ACCREDITED INSTALLATION PARTNERS
- MORE THAN 900 TRAINED SPECIALISTS
- MORE THAN 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.