

SUSPENSION SYSTEMS

making everyday smoother



airsuspension



DISCOVER THE POSSIBILITIES OF VB-AIRSUSPENSION

BETTER SAFETY AND COMFORT ON THE ROAD.

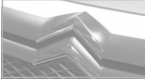







VB-FSD technology

Special components - VB-FSDshockabsorber



A GOOD START IS HALF THE BATTLE.

A complete overview of the available VB FSD shock absorbers can be found below:

	Make	Model	Type	Year of manufacture	Axle
	Citroën	Jumper	X250 - X290 Original chassis AL-KO chassis	2006-present	Front Rear
	Fiat	Ducato	X250 - X290 Original chassis AL-KO chassis	2006-present	Front Rear
	Mercedes-Benz	Sprinter	2XX-3XX	2006-2018	Front Rear
	Mercedes-Benz	Sprinter	4XX-5XX	2006-2018	Front Rear
	Peugeot	Boxer	X250 - X290 Original chassis AL-KO chassis	2006-present	Front Rear
	Volkswagen	T5 / T6	-	2003-present	Front Rear
	Volkswagen	Crafter	28-35	2006-2016	Front Rear
	Volkswagen	Crafter	35-50	2006-2016	Front Rear

FOR INCREASED COMFORT AND GREATER STABILITY.

Shock absorbers

A good suspension system must provide both spring force and damping, so that the vehicle feels both stable and comfortable to drive. In order to achieve this, each vehicle is fitted with suspension (coil spring suspension, leaf suspension or torsion bar suspension) and shock absorbers. The suspension under the vehicle ensures that passengers and/or the cargo do not feel every bump in the road surface.

The shock absorbers damp the movement of the suspension; without shock absorbers the vehicle would sway considerably. Perhaps the most important function of the shock absorbers is to ensure that the wheels remain in contact with the surface of the road. This is very important for the driveability and handling of the vehicle, and thus for its safety.

OUR SUSPENSION SYSTEMS PROVIDE FOR MORE STABLE ROAD HANDLING.

Characteristics of the standard shock absorber

With standard shock absorbers you usually have to make a choice between stability and comfort. If you go for more stability, the vehicle will feel more stable, but will not provide as much comfort. If you go for comfort, the vehicle will be comfortable to drive, but will not feel as stable. Clearly, it's best to have both. And now you can with VB FSD shock absorbers!



A SOLUTION FOR SUSPENSION PROBLEMS.

FSD stands for “**frequency selective damping**”. The addition of a special valve allows the shock absorber with FSD technology to vary its own damping force. This directly results in more comfortable driving characteristics, improved stability, greater safety and less vibration and background noise, since unevenness in the road surface is not felt as distinctly in the vehicle.

VB-FSDshockabsorber

Our VB-FSD shock absorber is a shock absorber for both the front and the rear axle that has been specifically developed to improve the drive characteristics. The addition of a special valve allows the shock absorber to vary its own damping force. Fitting these shock absorbers makes the vehicle driving characteristics more stable, and unevenness in the road surface is better absorbed. This immediately results in better vehicle behaviour in terms of comfort and stability.

ADVANTAGES OF VB FSD SHOCK ABSORBERS:

- MORE COMFORTABLE DRIVING CHARACTERISTICS
- IMPROVED STABILITY
- UNEVENNESS IN THE ROAD SURFACE NOT FELT SO DISTINCTLY IN THE VEHICLE
- LESS VIBRATION
- LESS BACKGROUND NOISE

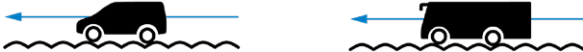


In order to offer **optimum comfort** and **maximum stability** on an unpredictable and bumpy road surface, the shock absorber needs to provide softer suspension, and so make the journey more **comfortable**.



***Red line** – normal shock absorber

the shock absorber has difficulty following the surface of the road, which means that more movement/vibration is transmitted to the superstructure/the vehicle.



***Blue line** – VB FSD shock absorbers

the shock absorber follows the surface of the road much better, meaning that less movement/vibration is transmitted to the superstructure/the vehicle.

For **optimum vehicle behaviour** on a sloping, winding road, the shock absorber needs to provide firmer suspension, and so make the vehicle **easier** to handle.



***Red line** – normal shock absorber

the shock absorber has difficulty following the surface of the road, which means that more movement/vibration is transmitted to the superstructure/the vehicle.



***Blue line** – VB FSD shock absorbers

the shock absorber follows the surface of the road much better, meaning that less movement/vibration is transmitted to the superstructure/the vehicle.

In addition to the products from the 'special components' product group, we also offer a wide range of other products. 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



DISCOVER OUR PRODUCT GROUPS.

Full air suspension

Full air suspension is an automatic, adjustable solution to a suspension problem where the existing suspension is replaced by a full air suspension system.

Depending on the make and model of vehicle, full air suspension is available for both the front and rear axle.

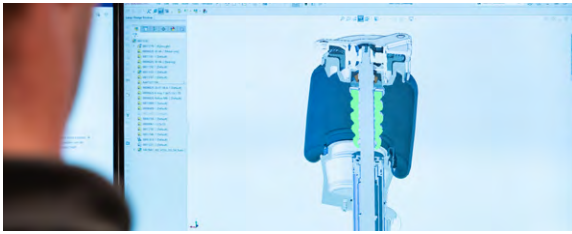
Semi air suspension

Semi air suspension is a suspension system that helps the existing suspension on the vehicle to correct suspension problems.

The auxiliary air suspension system is fitted between the original leaf suspension and the vehicle chassis. Semi air suspension is available for the vehicle's rear axle.

Helper and reinforced springs

Helper and reinforced springs are suspension systems that support or reinforce the existing suspension system in order to correct a suspension problem. The helper and reinforced springs are either fitted to the existing suspension or replace the original spring suspension. The two systems are available for both the front and rear axle.



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



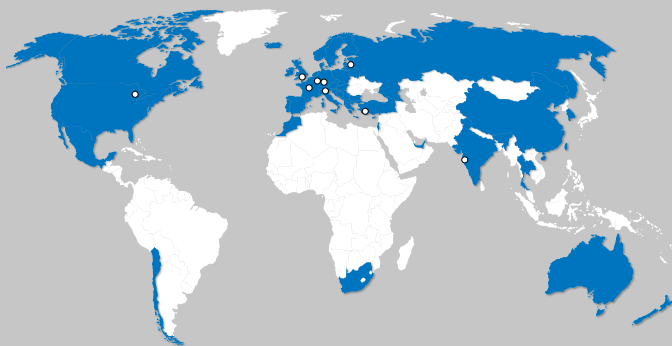
VB-AIRSUSPENSION IS ACTIVE WORLDWIDE.

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 28 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, PSA 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 28 YEARS OF EXPERIENCE
- 150 EMPLOYEES
- 8 SUBSIDIARIES WORLDWIDE
- REPRESENTED BY PARTNERS IN 40 COUNTRIES
- DELIVERY TO MORE THAN 60 COUNTRIES
- MORE THAN 225 ACCREDITED INSTALLATION PARTNERS
- MORE THAN 825 TRAINED SPECIALISTS
- MORE THAN 200,000 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.