

# SUSPENSION SYSTEMS

making everyday smoother



airsuspension



**DISCOVER THE POSSIBILITIES OF VB-AIRSUSPENSION**

**BETTER SAFETY AND COMFORT ON THE ROAD.**

**VB-CoilSpring**

**Helper and reinforced springs**

OUR VB-COILSPRING SYSTEMS INCLUDE THE FOLLOWING ADVANTAGES: INCREASED COMFORT – INCREASED STABILITY – OPTIMAL DRIVEABILITY.



# IMPROVED DRIVING CHARACTERISTICS THANKS TO SUSPENSION APPLICATIONS.

## VB-CoilSpring: 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.

A helper spring or replacement spring is used on vehicles that already have coil spring suspension. Helper springs are fitted on vehicles with leaf suspension.

The reinforced springs will largely ensure that the vehicle returns to its optimum ride height, which increases spring travel and thus improves stability and, to some extent, comfort levels.

### PERMANENT SPRING FORCE

VB-CoilSprings are a good option for vehicles that are always (heavily) laden and that have to carry variable loads every once in a while. This is because the reinforcement to the spring force is permanent and cannot be adjusted.

	Increases ride height	Minimises sagging	Reduces vehicle roll	Improves suspension comfort
<b>VB-COILSPRING</b> Helper and reinforced springs	++	++	++	++
	Improves driving characteristics			
	+			



## AVAILABLE IN TWO VARIANTS

- Replacement spring
- Helper spring

**VB-COILSPRING IS OFTEN FITTED TO MEET THE FOLLOWING  
REQUIREMENTS:  
INCREASED RIDE HEIGHT  
MINIMISED SAGGING  
REDUCED VEHICLE ROLL  
IMPROVED SUSPENSION COMFORT  
IMPROVED DRIVING CHARACTERISTICS**



### BENEFITS OF VB-COILSPRING:

- SUPPLIED AS A COMPLETE SET
- LESS SAGGING
- IMPROVED COMFORT
- INCREASED STABILITY
- STRONGER SUSPENSION
- LESS CROSSWIND SENSITIVITY

# RESTORE SPRING TRAVEL

## Replacement spring

As the name suggests, the original coil spring is removed and replaced by the replacement spring, i.e. by a reinforced variant.

Reinforced springs will normally ensure that the vehicle returns to its original or higher ride height, which increases spring travel and thus improves stability and, to some extent, comfort levels.



### THE VB-COILSPRING SET CONSISTS OF:

<b>1</b>	Replacement springs	+
<b>2</b>	Fasteners	+
<b>3</b>	Fitting instructions	+
<b>4</b>	Approval documentation	+



## SUPPORTS EXISTING SUSPENSION

### Helper spring

The original suspension is retained when a helper spring is fitted. The helper spring is installed alongside the original. Installing the helper spring reinforces the original suspension. Helper springs will normally ensure that the vehicle returns to its original or higher ride height, which increases spring travel and thus improves stability and, to some extent, comfort levels.

### THE VB-COILSPRING SET CONSISTS OF:

<b>1</b>	Replacement springs	+
<b>2</b>	Fasteners	+
<b>3</b>	Fitting instructions	+
<b>4</b>	Approval documentation	+



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In addition to the products from the 'helper and reinforced springs' 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.

### **Special components**

#### Reinforced stabiliser

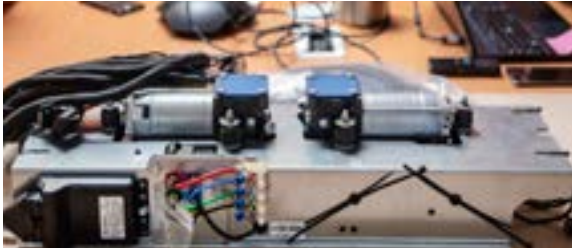
A reinforced stabiliser is a solid rod of the same material as the springs. This roll stabiliser supports the existing suspension. The roll stabiliser is added to the existing suspension system and is available for both the front and rear axle.

#### Reinforced shock absorbers

Reinforced shock absorbers have their own suspension characteristics. They replace the original shock absorbers, thus becoming part of the existing suspension. Reinforced shock absorbers are available for both the front and rear axle.

#### VB-FSD technology

VB-FSD shock absorbers use VB-FSD technology (FSD stands for 'Frequency Selective Damping'). The VB-FSD shock absorbers have double damping characteristics. They replace the original shock absorbers and thus become part of the existing suspension. Shock absorbers with VB-FSD technology are available for both the front and rear axle.



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



## VB-AIRSUSPENSION IS ACTIVE WORLDWIDE.

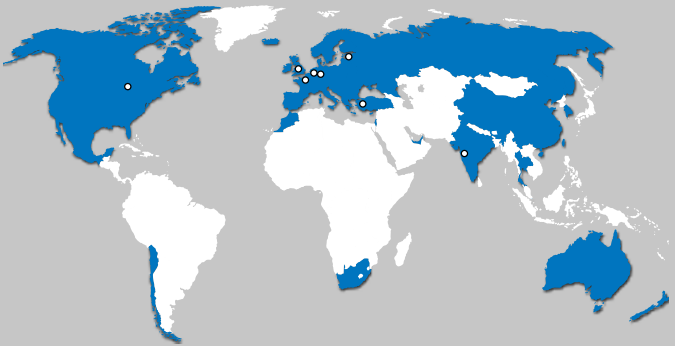
As a leading company experiencing rapid growth, we want all our customers across the globe to benefit from our premium suspension applications. These suspension applications provide improved comfort, better driving characteristics and improved safety, in turn making every day smoother.

**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 25 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 25 YEARS OF EXPERIENCE
- 150 EMPLOYEES
- 7 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](http://www.vbairsuspension.com).