

# SUSPENSION SYSTEMS

making everyday smoother



DISCOVER THE POSSIBILITIES OF VB-AIRSUSPENSION

**SAFE AND COMFORTABLE RIDE.**

**Suspension solutions for:**  
***Wheelchair transport***



USEFUL FUNCTIONALITIES

## PLEASED TO MEET YOU, WE ARE VB-AIRSUSPENSION.

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.



INCREASED COMFORT



INCREASED STABILITY



BETTER DRIVEABILITY

## WHY CHOOSE AIR SUSPENSION?

When transporting passengers, you obviously want the journey to be as comfortable and safe as possible. They should feel comfortable and confident at all times as they travel to their destination.

It isn't always easy to get the weight distribution right when the vehicle is carrying someone in a wheelchair. The extra weight of a wheelchair together with the person using it means the vehicle is often loaded unevenly on one side.

If the weight cannot be distributed evenly with an unbalanced or maximum load, this can cause the original suspension to 'sag' at the rear of the vehicle, with a detrimental effect on ride comfort.

A constant ride height is therefore essential for both the driver of the wheelchair-accessible vehicle and the wheelchair user – whether or not this is the same person.



GETTING IN AND OUT DOES NOT NECESSARILY HAVE TO FEEL LIKE A BARRIER.



## ANY OF THESE (SUSPENSION) PROBLEMS SOUND FAMILIAR?

The vehicle may also be too high – or too low – or the ramp angle may be too steep. Passengers may also experience discomfort from potholes and bumps in the road. As a result, it is not always easy to assist passengers to ensure they have the best experience. These are just a few examples of (suspension) problems drivers and passengers regularly report when on the road, but fortunately we are able to offer an appropriate solution.

### **We can help!**

VB-Airsuspension (air) suspension systems provide solutions for these (suspension) problems. When using our air suspension – and electronic ride height control to achieve a constant ride height – ride comfort increases significantly. This means your passenger feels comfortable and safe, as do you as the driver.



TAKE OUT THE STRESS  
FOR PASSENGERS.  
VB-FULLAIR: THE IDEAL SOLUTION.



## VEHICLES ACCESSIBLE FOR ALL WITH AIR SUSPENSION.

Wheelchair users want to experience a sense of security, comfort and confidence en route to their destination. For that reason, you want to be able to offer a bespoke transport service.

### Wheelchair users

Our product – the VB-FullAir – relieves physical discomfort for wheelchair users while travelling.

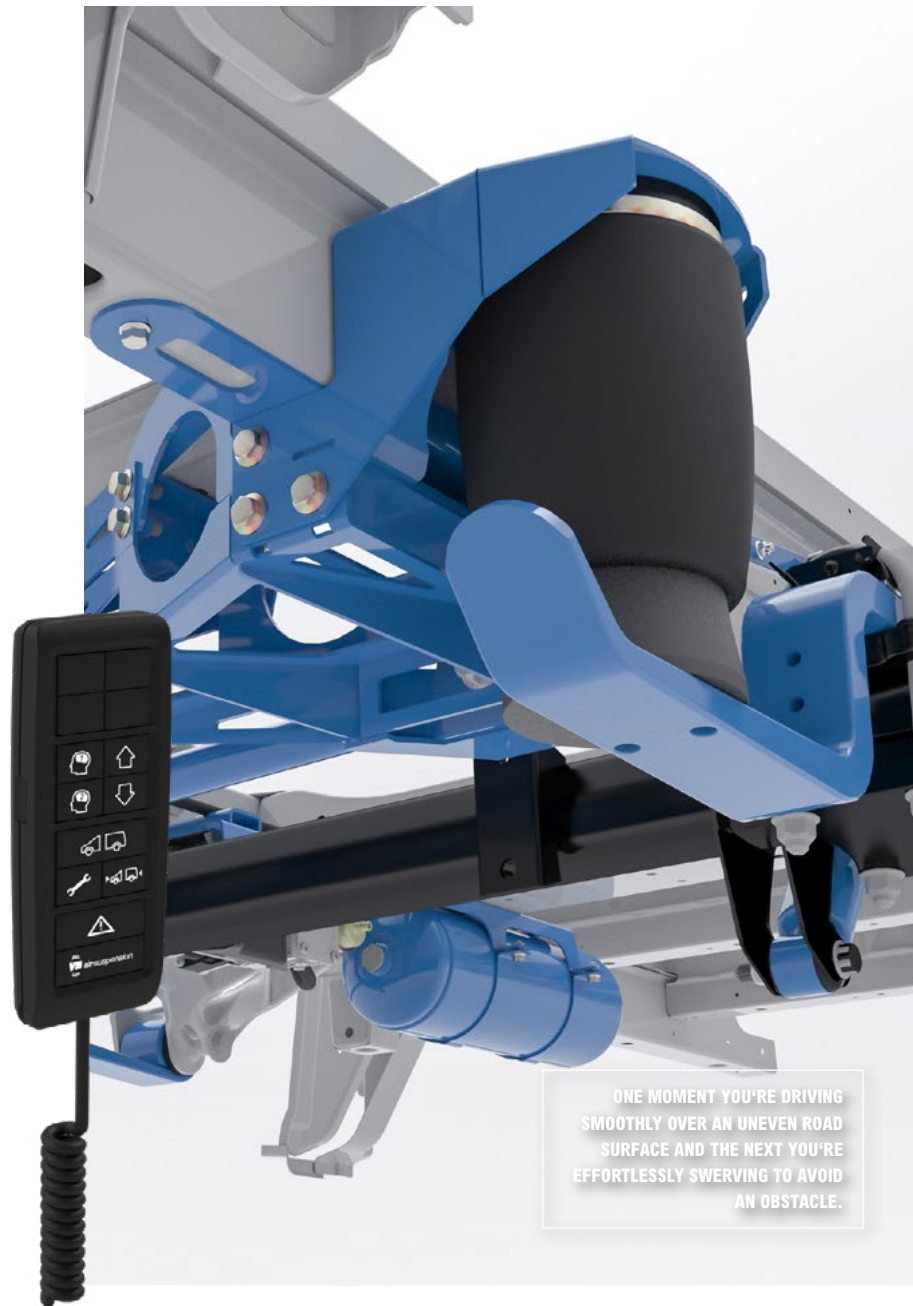
Potholes and bumps in the road can be both physically and mentally stressful. The positive characteristics of driving with air suspension can significantly reduce this stress.

### Transport firms with wheelchair-accessible vehicles

Ensuring the safety and physical comfort of their passengers is of paramount importance to these carriers. This is what the passenger ultimately considers to be the most important. So what's better than wheelchair users who choose to travel with you – just because your vehicle has that extra bit of comfort?

### Family, friends and/or acquaintances

We all want to enjoy a comfortable journey, wherever we might be going. This is extra important if you – or your passenger – experience physical discomfort when travelling. You want to be comfortable, in every sense of the word, throughout your journey. Our adjustable suspension solution provides a range of useful functionalities. A wheelchair with a person in it can be quite weighty, which can make it difficult to push up a high ramp angle. VB-FullAir lets you lower the ramp angle to make it easier to enter and exit the vehicle. In addition to a more comfortable ride, more stable road handling and optimum driveability, our air suspension also comes with a range of useful functions.



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

## THE RIGHT SOLUTION FOR ALL WHEELCHAIR/ PASSENGER TRANSPORT.

### VB-FullAir: full air suspension with advanced control options

VB-FullAir is an automatic, adjustable solution for suspension problems. The existing leaf- or coil spring suspension is fully replaced by a full air suspension system that filters out unevenness in the road surface, thereby increasing ride comfort. The driveability and stability of the vehicle are improved, which in turn increases safety. VB-FullAir is supplied with a sophisticated remote control that can be used to easily operate all functions of the suspension system. Depending on the make and model of vehicle, full air suspension is available for both the front and rear axle.



Single wheelchair passenger



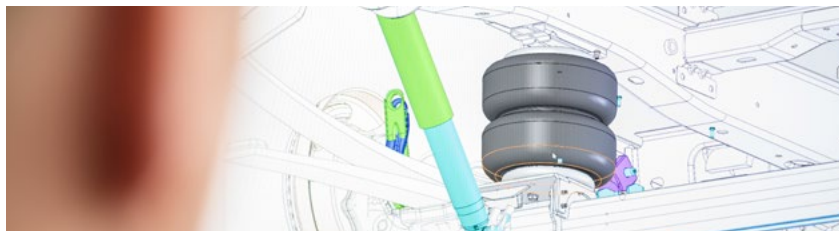
Self-propelled wheelchair transport



Mixed (wheelchair) transport

The images above are indicative only and are examples of vehicles for which we offer solutions.

	Increases ride height	Minimises sagging	Reduces vehicle roll	Improves suspension comfort	Improves driving characteristics	Increased safety	Improved stability	Control options
<b>VB-FULLAIR</b> Full air suspension	++	+++	++	++	++	+	+	++



WE MAKE EVERY ROAD  
A GOOD ROAD.



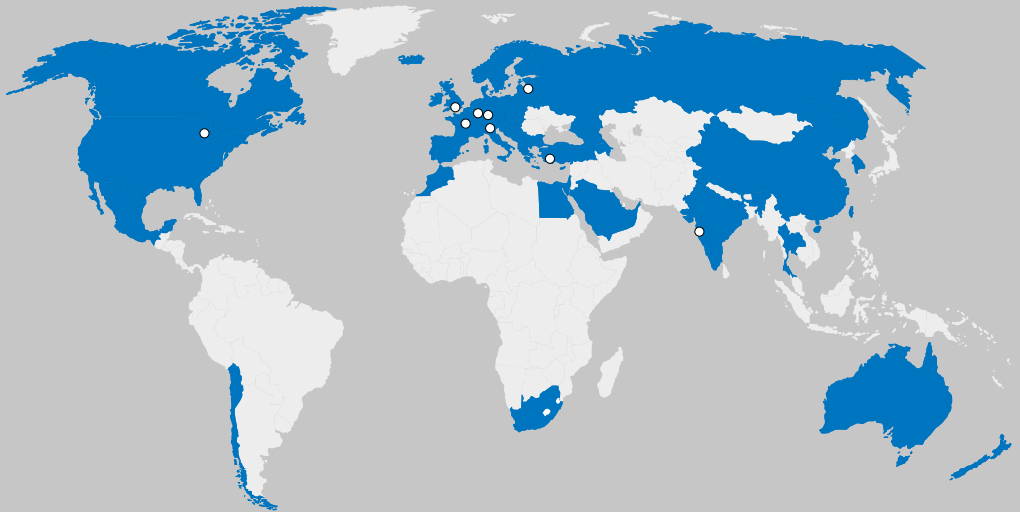
## VB-AIRSUSPENSION IS ACTIVE WORLDWIDE.

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 29 YEARS' EXPERIENCE
- TWO HEAD OFFICES IN VARSSEVELD: INNOVATION AND TECHNOLOGY CENTRE & LOGISTICS CENTRE
- MORE THAN 160 ENTHUSIASTIC EMPLOYEES
- 8 SUBSIDIARIES WORLDWIDE
- REPRESENTED BY PARTNERS IN 41 COUNTRIES
- SUPPLYING TO MORE THAN 60 COUNTRIES
- MORE THAN 325 VB-PARTNERS
- OVER 975 TRAINED SPECIALISTS
- AROUND 250,000 (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).