

**INNOVATIVE TECHNOLOGIES**

# NVH Solutions for Commercial Vehicles



# Solutions for Commercial Vehicles from BOGE.

## **Innovations that Meet Market Demands and Set New Standards.**

BOGE Rubber & Plastics: we design solutions that perfectly match the requirements of our customers. Our NVH commercial vehicle specialists assist manufacturers of vans, trucks, busses and coaches, trailers and special vehicles, offering unrivalled expertise and development know-how.

Our promise: We assist you all the way – from the initial conception of a solution to series production. We solve your elastokinematic problems by developing mounts and bushings for your specific applications and requirements. These components serve as the significant tuning elements for the NVH performance of the entire vehicle.

### **Our Core Competences are:**

- Development and production of individual components and complete modules for vibration damping and NVH optimisation in modern commercial vehicles
- Innovative solutions for vibration reduction in vehicle chassis and powertrains as well as cabs and super-structures

## **Your Benefits**

With BOGE Rubber & Plastics as your partner, you benefit from our comprehensive know-how and expertise. Our contribution to your success:

- Established know-how based on many years of experience
- Multidisciplinary teams of specialists from all over the world
- Long-standing partnerships with leading car manufacturers and system suppliers in Germany and abroad

## **Our Objective**

We want to make mobility of transport and trade safer, more comfortable and more economical. Our achievements to date speak for themselves:

- Outstanding economic efficiency
- Increased driving comfort thanks to vibration damping and noise reduction
- Proven optimisation of driving dynamics
- Top quality standards
- Extended service intervals compared to predecessor

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# Reliable. Economical. Convenient.

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# Tailor-Made Solutions.

## Application-Specific and Future-Proof Designs – Tailor-Made According to your Requirements.

Optimized driving dynamics and comfort, effective noise reduction and reliable safety in every driving situation require high-performance components at all NVH-critical points.

As a NVH specialist, BOGE Rubber & Plastics has the necessary development expertise to achieve this. We design and produce mounts and associated components that are tailor-made for your specific applications.

We always find the best solution, focussing not only on all aspects such as:

- Robustness
- No necessity of maintenance
- Vibration damping
- Noise insulation
- Safety

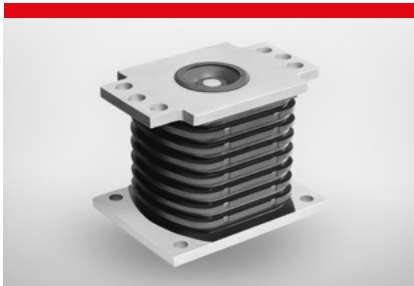
But we also pay great attention to the ever more pressing issues of protecting resources and optimizing performance. Our advanced high-state-of-the-art NVH solutions are testimony to our expertise.

Less weight – more power: One of the biggest challenges the industry is faced with is reducing weight and costs while maintaining or even enhancing functionality. BOGE Rubber & Plastics is dedicated to the development of innovative lightweight solutions for commercial vehicles. With many of our latest designs, we were able to reduce weight by using plastics and aluminium, for instance for distance tubes, mount housings and pedal boxes.

We always explore new options to make mobility in the future even safer and more economical.

## OUR DEVELOPMENT FOCUS IS ON THE FOLLOWING APPLICATIONS:

### Chassis



#### Leaf-Spring Supporting Mount

- Optimizes driving dynamics and traction
- Improves comfort and safety
- Extremely sturdy and reliable

### Drivers Cab



#### Cab Pivoting Mount

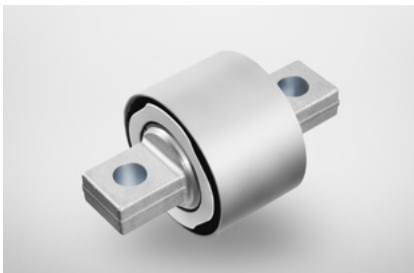
- Ensures smooth running tilting
- Complex function integration
- Enhanced comfort – optimum driving dynamics

### Powertrain



#### Engine Mount

- Isolates passenger compartment from drivetrain vibration
- Optimizes safety and comfort
- Keeps noise and harshness away from driver



#### Control Arm Bushing

- Improves self-steering behaviour
- Optimizes driving dynamics
- Enhances driving comfort



#### Comfort Cab Mount

- Improves driving dynamics and comfort
- Optimizes NVH behaviour of entire vehicle
- Makes the workplace safer and more comfortable



#### Torque Strut Mount

- Guarantees effective torque support
- Maximum noise insulation
- Enhances comfort – optimum driving dynamics

# Innovative. International. Experienced.

Top NVH and lightweight products for the automotive industry – that is what BOGE Rubber & Plastics stands for all over the world. As a longstanding partner of international OEMs, we develop innovative solutions for the markets of tomorrow.

## BOGE Rubber & Plastics at a Glance:

- Leading international player in the field of rubber-metal and plastics technology
- Established development partner of the global OEMs
- More than 80 years of experience in the automotive industry
- Innovations and complete solutions that set new standards in vibration control technology and lightweight construction
- Unrivalled dedication to service and customer support
- Global operation with eleven locations and around 4,200 employees on four continents

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