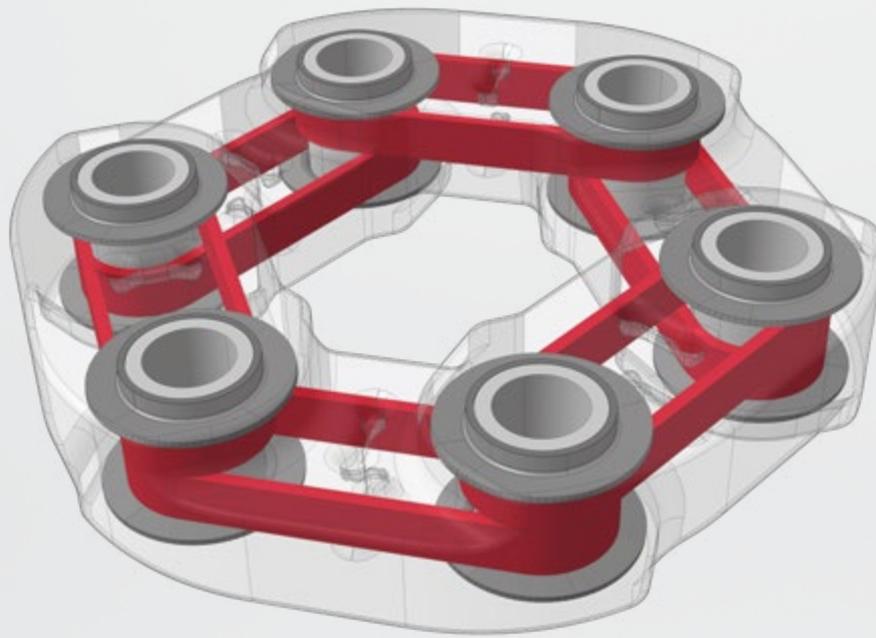


INNOVATIVE TECHNOLOGIES

Flexible Couplings for Automotive and Industry



Smooth transmission of torque in the powertrain.

Decoupling vibration, resonance, and impact loads

Decoupling drives to prevent vibration and resonance is a topic of growing importance. Stricter workplace regulations and rising expectations of machine quality demand effective solutions. Flexible couplings can make a significant contribution. They can interrupt sound-transmission pathways and effect targeted resonance shifts.

Couplings from BOGE Rubber & Plastics offer the right solution for any drive system. A wide range of adjustment and a high safety reserves ensures quiet performance in the long term. Our team has the technical expertise to provide high-quality, individual solutions using fiber-reinforced elastomeric couplings.

Our products stand out thanks to our excellent manufacturing and quality standards. At BOGE Rubber & Plastics, we use patented, cutting-edge manufacturing technology to ensure continuously reproducible precision in our fiber-reinforced elastomeric couplings.

The rubber coating on our flexible couplings contributes to the damping effect and protects the specially wound thread inserts. The integrated wrapped packets are produced using individually adapted materials and parameters that are suitable to the application field. The precise design and analysis of the structure, carried out in-house, ensure that our couplings can meet the most demanding requirements of our customers.

Application areas of flexible couplings

- Automotive
- Marine
- Railroad
- Pump drives
- Rolling mills
- Agricultural and construction machinery
- District heating power plants
- Engine and transmission connections
- Wind-power plants
- Machine-building

Durable. Space-saving. Lightweight.

Customized solutions.

Flexible couplings in the powertrain provide a control lever allowing the fine-tuning of comfort, responsiveness, and vehicle agility. With adjustable rigidity and damping, undesirable structure-borne and airborne noise effects can be influenced and optimized.

Every new engine and transmission development project brings with it a new set of challenges in terms of the vibration behavior of the powertrain and all of its components.

BOGE Rubber & Plastics uses targeted development of fiber-reinforced flexible couplings to reduce noise and vibration generated by the powertrain and increase vehicle comfort.

Our goal

- Damping vibrations in the drivetrain caused by cyclic irregularities
- Damping transmission shaft resonance
- Decoupling vibrations and avoiding transmission clash
- Acoustic decoupling of structural sounds and minimization of airborne sounds
- Isolating vibrations

The benefits at a glance

- Minimized wear on transmission gearing
- Safe torque transmission via high-strength thread inserts
- Compensation for shifts in design and driving dynamics, as well as for angle offsets between adjacent modules and components

OUR DEVELOPMENT WORK IS FOCUSED ON THE FOLLOWING APPLICATIONS:

Automotive



Passenger-car couplings

- Greater comfort through optimal driving dynamics
- Reduced space requirements
- Long service life

Railroad and Marine



Railroad couplings

- Noise reduction
- Weight-saving
- No maintenance or lubricants needed

Industry



Industrial couplings

- Reduced space requirement with no reduction in performance
- High operational reliability
- Very good offset compensation



Bus couplings

- Electrically insulated
- High rotational stability
- Wide damping range



Ship couplings

- Lightweight design
- High reliability and uptime
- No transmission clash



Industrial strap couplings

- Individualized, variable structure
- Maintenance-friendly, easy to replace
- High safety factor

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 ten locations and around 4,200 employees on four continents

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