

Diaphragms and elastomer moulded parts, vibration engineering



Effbe product portfolio



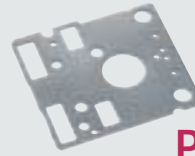


O-rings



Our extensive assortment includes the current commercially available dimensions, but is being continuously extended due to the fabrication of new tools. Our standard quality: NBR 70° shore with dimension tolerances according to the DIN 3771 norm.

We meet the increasing demands of the market by manufacturing special O-rings with smaller tolerances and a higher or lower level of hardness and made of materials of higher quality such as FPM (fluoroelastomer), ECO (epichlorhydrine), HNBR (hydrogenated nitrile rubber) etc. Production is performed in medium-sized and large series.



Punched gaskets



By using individually made tools and state-of-the-art punching technology, we are able to meet all of your product requirements for punched parts while adhering to the smallest of tolerances for medium-sized and large series. There is a variety of materials to choose from: rubber sheets with or without fabric, foamed elastomers, non-asbestos high-pressure sealants, sealants based on cork or cellulose, graphite and graphitic materials, impregnated paper and all materials with or without adhesive film.

Ranges of application

- **Automobile industry**
- **Motor vehicle supplier industry**
- **Electrical and electronics industry**
- **Household appliance industry**
- **Climate and heating**
- **Food industry**
- **Aerospace engineering**
- **Pneumatics**
- **Sanitation and ventilation, etc.**



Moulded parts

The rubber parts we produce range from the simplest to the most complex and are of standard or special quality. The materials used include NBR (nitrile rubber), EPDM (ethylene propylene), CR (polychloroprene), FPM, ECO, MPVQ (silicone), HNBR or specific mixtures developed in our laboratories on the basis of your specifications. Medium-sized and large series are manufactured for a variety of ranges of application by means of injection, compression or transfer moulding.



Diaphragms

As one of the leaders in the European diaphragm market, Effbe is the ideal partner for all product requirements: punched flat diaphragms, thermoformed diaphragms (Reciflex), moulded diaphragms with or without fabric, with PTFE film or metal part as required. The material is selected on the basis of your requirement profile.

- Elastomers: NBR, EPDM, FPM, ECO, etc.
- Fabrics: polyamide, polyester, rayon staple fibre, polyarylamide, etc ...

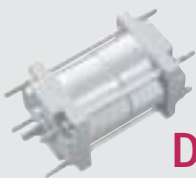
Effbe products have been approved for the most important uses (automobile, gas, etc.) and ranges of application.

Ranges of application

- Vehicle construction
- Motor vehicle supplier industry
- Gas industry
- Household appliances
- Tap-industry
- Sanitary facilities
- Electrical and electronics industry
- Pneumatic and hydraulic industry
- Sport
- Toys, etc.

Ranges of application

- Gas regulators
- Pressure reducers
- Gas meters
- Injection systems
- Pumps
- Carburetors
- Safety valves
- Actuating drives
- Pressure accumulators
- Control cells



Diaphragm devices



The Effbe standard series provide you with high-quality diaphragm devices for control functions in the field of plant and mechanical engineering. As power elements, they are suitable for automatic production processes, individual assembly stations or as table presses for the workplace. All diaphragm devices have the advantage that they can be operated without requiring maintenance and that they transfer mechanical processes in a sensitive way. The attractive cost-benefit ratio is based on inexpensive housings and piston design, absolute impermeability and the separation of media, as well as permanent operational reliability.

Ranges of application

Pneumatic devices	Pneumatic presses
• Automobile industry	• Assembling
• Textile machines	• Riveting
• Paper machines	• Punching
• Drink filling machines	• Embossing
• Compressors	
• Petrochemical plants	
• Wood working machines	
• Construction machines, etc.	



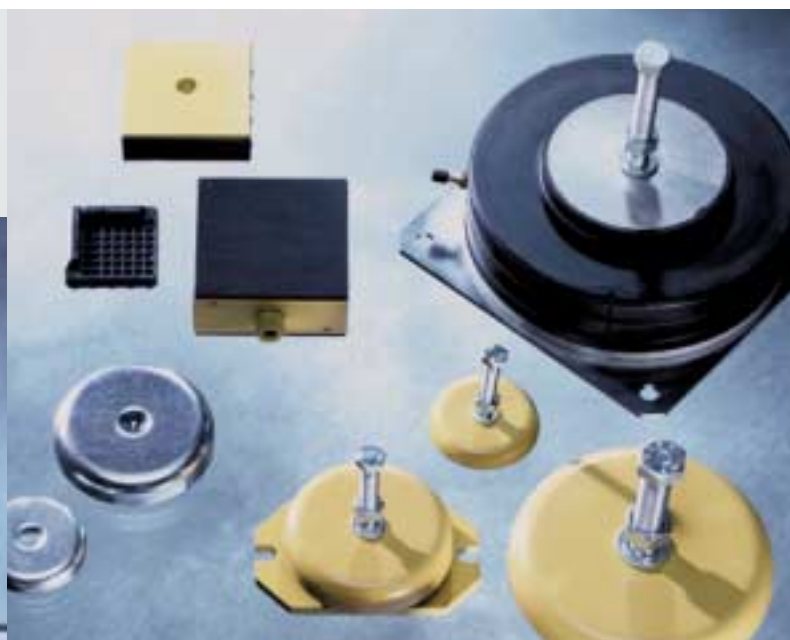
Elastomer springs



We supply elastomer springs of two different types of quality as standard equipment for punching and forming tools:

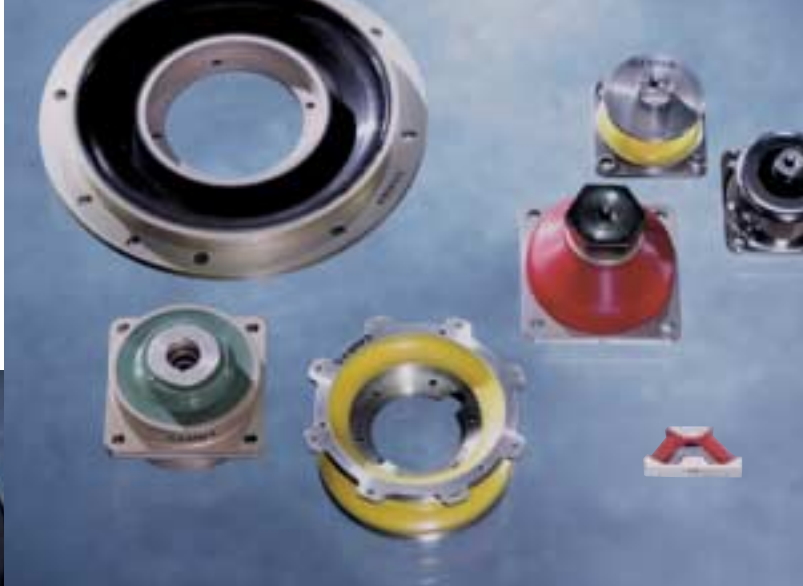
- Effbe Urelast: special polyurethane (PUR)
- Effbe 295: modified elastomer based on chloroprene (CR)

The main feature in comparison to steel springs is the emergency operation feature and hence the particular operational reliability. A long service life without any maintenance is an important factor for economical continuous operation. Varieties and accessories supplement the supply range. All parts meet the requirements of the DIN 9835 norm for performance and quality.



Machine bearing elements

Effbe Levelmount® stands for elements used for the smooth, anchorage-free, non-oscillating installation of machines. The well-proven product range almost completely fulfills the demands placed on the resonant frequency of the bearing from 2.5 Hz onwards. The selected elastomer materials ensure trouble-free machine operation over a long period of time. The assortment is supplemented by damped and undamped air springs.



Shock & vibration absorbers

The Gamma product range extends from normed standard elements to customized developments for shock and vibration absorption. Our field of expertise includes the development, sampling and manufacturing of items according to your requirement profile, using state-of-the-art calculation and test methods. Our QM system is subject to the quality norm ISO 9001 and we have been approved by AECMA-EASE as a supplier for aeronautics.

Gamma bearing systems have been approved for aeronautics and are used in particular for advanced technological applications such as Eurofighter, Rafale, Mirage 2000, Tiger, NH90, Leopard, Leclerc, Challenger, SNG, SNLE, P.A.N., Spot, Helios, Hotbird, M51, Mica, Aster, R.E.R. Paris, VAL, METEOR or TGV.

Ranges of application

- Presses
- Milling machines
- Lathes
- Injection moulding machines
- Measuring machines
- Packaging machines
- All machines requiring insulation with regard to vibrations (source insulation/ receiver insulation)

Ranges of application

- Civil and military aviation
- Army
- Navy
- Launch vehicles
- Communication systems
- Aeronautics
- Railway vehicles, etc.

A good basis for quality.



Material

Our engineers select a suitable material or develop a new specific mixture on the basis of your specifications. In doing so, we only use materials of the highest quality which are subject to continuous quality control. Our quality control requirements are supported by a group-wide certification standard. We develop and process all commercially available materials.



Technology

More than 50 years of experience and expertise in elastomer processing and in the field of vibration engineering and diaphragm technology make us an expert partner for individual solutions. State-of-the-art development and production equipment ensure constant high quality. The various production parameters are documented by computer integrated manufacturing (CIM).



Quality management

The existing quality management system and state-of-the-art test methods and procedures ensure the quality of our products during the production process.



Qualifications

Highly-motivated and qualified personnel are a prerequisite for future-oriented products. The staff involved at all levels of development, production or sales are regularly given further training to continue to increase the performance of the company and to meet the requirements of our customers for individual solutions in an even better way.



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