

BodeDynamic



HIGH-GRADE SEALS
CUSTOMISED SOLUTIONS

COMPANY

Seals are our business. Choosing the best sealing element in terms of economic and technical aspects is the starting point for any successful cooperation with our customers and thus the basis of our success.

Many years of experience along the entire process chain provide the foundation for our solutions. This applies to the selection of tools, the manufacture of material, the design of the appropriate geometry, the variety of production processes, the finishing, and the quality assurance.

Alongside other companies committed to seals, BodeDynamic belongs to Bode Holding. This grants each individual associated company access to the broad spectrum of capacities and skills of the entire group.



Two aspects of these synergies are particularly important for BodeDynamic. The knowledge regarding the development and production of compounds puts us in the position of being able to offer our customers tailor-made materials. The know-how from manufacturing here on site in Germany allows us to transfer well established processes to our partners' production facilities.

The establishment and development of external partners for the procurement of seals is one of BodeDynamic's core skills. We consider our further strengths to include our technical consultation and a service-oriented sales process through subsidiary companies and sales partners in the target markets relevant for us.

The foundation of any economic success is a high level of customer satisfaction. This principle is fundamental to our operations. We embrace tolerance and respect in dealing with external and internal stakeholders, especially with customers, suppliers and employees. The long-term success of the Bode Group has strengthened this conviction.

EXPERTISE

Standard components can be sourced without a profound knowledge of sealing technology. When it comes to more challenging products we recommend relying on expertise. We consider ourselves experts. Consequently, we focus on seals with special requirements. This does not rule out involvement with standard parts as long as there is need for consultation.

There are barely any limits regarding the geometry. The sizes range from micro O-rings for precision components to seals with diameters of several metres. In cases where a tool-based production is not an option the key is to manufacture extruded profiles in combination with premium joining technology.

Our selection of materials includes all the conventional types of elastomers. Two-component parts complement our portfolio. Both metals and plastics are processed for this. The latter is also used for components with a supporting sealing function.



Certain fields of application for seals are controlled by legal regulations and standards. The majority refers to physical properties in order to reduce the risk of failure. Additionally, there are requirements concerning the toxicology. These are relevant to the recipe as well as to the migration of substances upon contact with food and drinking water. Our products offer a multitude of respective certifications.



kiwa



WRAS
APPROVED
PRODUCT

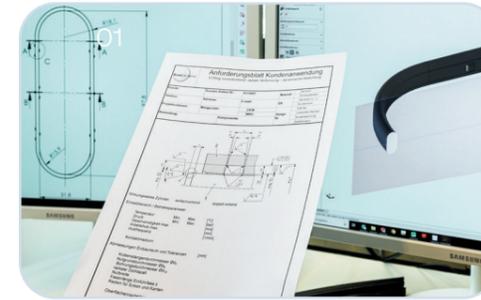
With all requirements fulfilled, our goal is to manufacture faultless parts. Compliant with our ISO 9001:2015 certification we pursue a zero-defect strategy. In addition to our own quality assurance measures, we arrange for external audits to be carried out by various organisations. Moreover, for products with a high failure risk we commit ourselves to external monitoring through accredited institutes.



DOCUMENTATION



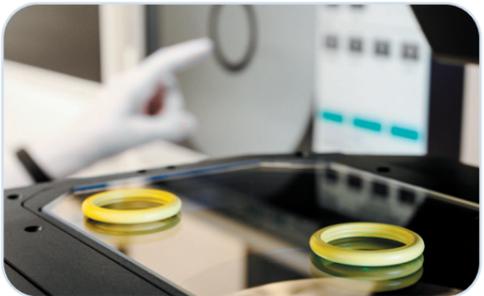
TRACEABILITY



FEASIBILITY STUDY



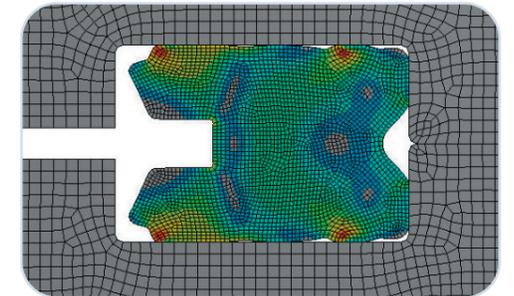
SEAL DESIGN



FINISHED PART INSPECTION

YOUR PRODUCTS
AND APPLICATIONS

OUR PROCESSES
AND SERVICES

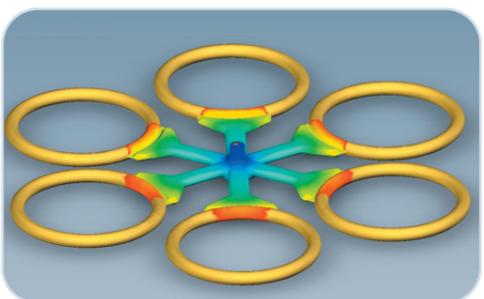
FINITE ELEMENT ANALYSIS



PROTOTYPE SAMPLES



COMPOUND DEVELOPMENT



TOOL CONCEPT



PRODUCTION PROCESS



MATERIAL TESTING



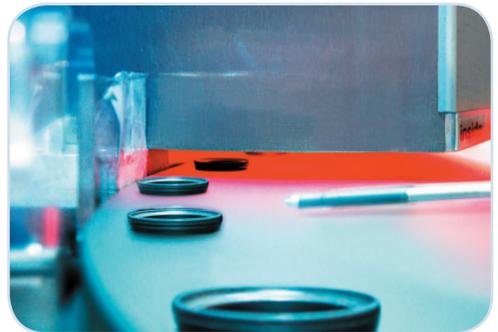
MIXING PROCESS

SERVICE

Compliance with technical requirements and cost competitiveness are imperatives for any collaboration. Our distinguishing qualities lie in our product-related services.

The unique selling point is our consultancy expertise. Early involvement in the development coupled with knowledge of the functional principle of the final product allows us to optimise the effectiveness of the seal, the cost, and the aspects of automatic feeding and assembly.

FEA simulations help to reduce the duration of time-consuming testing processes. After reaching a sample development stage we generate the same effect for initial testing by machine-cutting or 3D printing our samples. A higher level of validity can be achieved with close-to-series prototypes. It is one of our strengths to provide such prototypes at a reasonable cost.



Our compound laboratory allows us to develop advanced materials and monitor them continuously. In combination with our well-equipped laboratory for finished parts we are able to perform in-process inspections throughout the entire process chain. Tests can be customized to fit client specifications which significantly reduces external testing expenditure.



Automated assembly obligates our seals to comply with special requirements. The roundness, the flatness, and an upgraded friction force characteristic facilitate the separation as well as the automatic feeding, and the assembly. To achieve this, we implement 100% machine sorting, surface treatments, and custom-made packaging.

Naturally you can be assured that your person of contact at BodeDynamic places a high priority on customer focus. We promote this by creating an environment which encourages a high degree of personal responsibility and appreciation. This results in a remarkably motivated team and a high level of customer satisfaction.

PRODUCTS

O-rings, acc. to ISO 3601

O-rings, micro size

O-rings, special design



Profile rings, acc. to DIN 3869

Square rings

X-rings



Customised molded parts

Grommets

Diaphragms



Oil seals, acc. to DIN 3760

Oil seals, rubber fabric

V-rings



Rubber-metal bonded parts

Rubber-thermoplastic 2K-seals

Liquid silicone rubber seals



Lip seals

U-rings



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