

ECONOMOS



SKF Economos

Quality sealing and engineering plastics solutions



SKF Economos

The SKF Economos Group is market and technology leader for customised engineering sealing solutions. Thanks to the diversity of our product range, the SKF Economos Group is successfully active in all industry sectors.

Customer partnership

We see our customers as our partners – from the concept phase to serial production – with the common aim to achieve highest quality most cost effectively, also for small quantities. Together with our customers, we discuss all processes and procedures and find efficient solutions. New seal designs and the application of superior materials reduce break down periods during the production phase and result in extended service intervals.



Innovation and customer benefit

The Seal-Jet System (a CNC controlled production system for machined seals and advanced engineered plastic parts, developed at SKF Economos), serves to produce single seals and prototypes, as well as low quantity orders.

- No stock-keeping required – tailor-made, order specific production!
- Shortest delivery times – truly an „on time“ delivery service!
- No machine tool production necessary – and therefore reduced lead times!
- No tooling expenses, therefore no financial commitment
- Unlimited profile designs and seal diameters
- Seals with diameters up to 4 000 mm are possible (seals above 4 000 mm can be produced on request)
- Extensive range of materials – application of the most suitable material
- Materials certified or complying with FDA, NSF, USP, 3A Sanitary, KTW

Flexibility and customer service

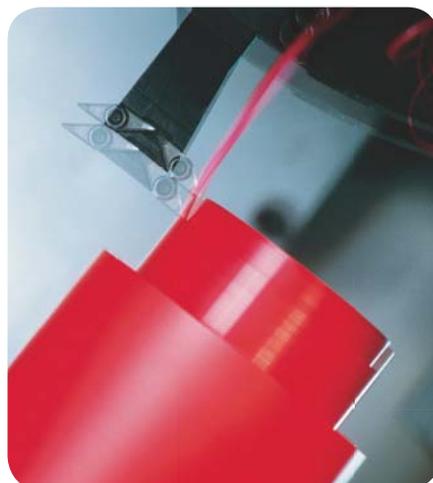
Our innovative production system reduces manufacturing and dispatch times to a minimum. Virtually any kind of customised precision part, for any conceivable application, in any dimension and profile, can be produced in most company locations.

The SKF Economos group operates more than 80 machining centres worldwide and aims to be located as close to the customer as possible. High flexibility, ongoing research and development are just two of the core competencies of the SKF Economos group which ensure, that almost all customer requirements can be met.

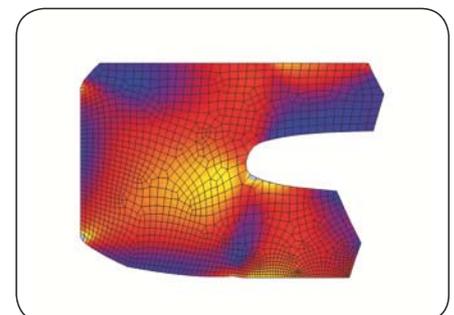
Research and development

We continuously develop customised products, which are the foundation of our success. The research & development of efficient high performance sealing materials and their continued quality control in special test facilities, assure the reliability of our products, which meet the highest and most sophisticated demands of all industries.

With our extensive range of seal dimensions and our flexible production processes we are able to offer optimal solutions and meet almost all application requirements.



Seal-Jet system



FEA – Finite element analysis

Seals and plastics parts

The Seal-Jet machine, the injection moulding process for serial production, the ability for milling and turning polymeric materials give SKF Economos an even greater flexibility to produce high quality products with the most suitable production technology for our customers.

Seal-Jet technology

The Seal-Jet machines used for the production of machined seals have been developed, tested and produced at SKF Economos. Therefore we know, that our products achieve highest quality and reliability. This machining system comes equipped with its own software and tools, which were specifically developed for use on polymer materials. Large diameter seals with diameters above 8 000 mm, as used in e.g. turbines or presses, can be manufactured using a specially developed welding technique. This allows on-site fitting and still gives the appearance and performance of an endless seal.

Injection moulding

Injection moulding has been of great importance since the beginning of our business operations. In the early days, semi-finished products were made from various materials; today we use this technology and experience for the serial production of injection moulded seals. Our own in-house machine tool production gives us the necessary adaptability to quickly complete new projects. These inserts are engineered in a separate production area and can be modified for custom built seal dimensions.

Our materials can be manufactured into injection moulded and machined seals. Using our injection moulding machines we can produce parts with diameters up to 600 mm. For this moulding process many tested and reliable SKF Economos sealing materials are available.

Advanced engineered plastics parts (AEPP)

As innovator of the manufacturing concept for machined seals, SKF Economos has therefore widespread experience in the production and processing of products using an extensive range of materials, like rubber, thermoplastic elastomers and high performance plastics. Our products, based on their physical properties (e.g. elongation at break, impact and wear resistance, compression set and tear strength), can be used for many different applications. SKF Economos application experts offer advice on profile design and material for your specific need.



NG 060 Seal-Jet machine



Injection moulded seals



AEPP part

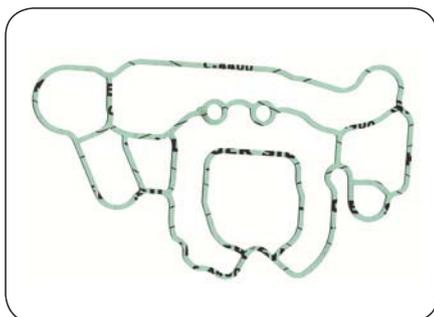
Competence in all industrial segments

Our technical competence and sealing know-how permits us to offer the best sealing solutions and AEPPs for specific applications. SKF Economos products and services have proved highly successful and are used in the following industries:

- Hydraulics
- Pneumatics
- Mining
- Oil and Gas
- Steel
- Automotive
- Shipbuilding
- Wind and Hydropower
- Construction machines
- Chemical and Petrochemical
- Food and Beverage
- Pulp and Paper
- Machine Tool
- Water and Water Treatment Plants
- Disposal and Processing Technology
- Sanitary and Household
- Pharmaceutical
- Agriculture

Water-Jet cutting

SKF Economos offers an all-inclusive range of Water-Jet cutting services. This CNC controlled process, precision cuts materials with very soft properties just as well as titanium into gaskets, contoured plates or special components. For the manufacture of more complex parts, we can combine the machined sealing technology with the Water-Jet cutting technology.



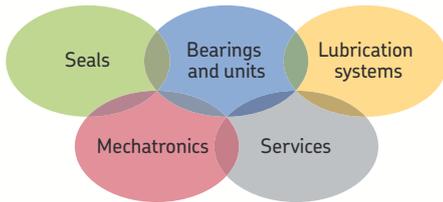
Gasket

SKF

Pneumatic- and hydraulic cylinder repair

Additionally, some of our production plants also offer a comprehensive pneumatic- and hydraulic cylinder repair service. Our innovative manufacturing concept allows newly cut seals to be fitted into honed cylinders. After assembly, each cylinder has to pass final leakage tests before being dispatched to the customer. This considerably extends the life expectancy of cylinders.





The Power of Knowledge Engineering

Drawing on five areas of competence and application-specific expertise amassed over more than 100 years, SKF brings innovative solutions to OEMs and production facilities in every major industry worldwide. These five competence areas include bearings and units, seals, lubrication systems, mechatronics (combining mechanics and electronics into intelligent systems), and a wide range of services, from 3-D computer modelling to advanced condition monitoring and reliability and asset management systems. A global presence provides SKF customers uniform quality standards and worldwide product availability.

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