

Invisible. Critical.

Advanced sealing solutions for demanding industrial applications

The company

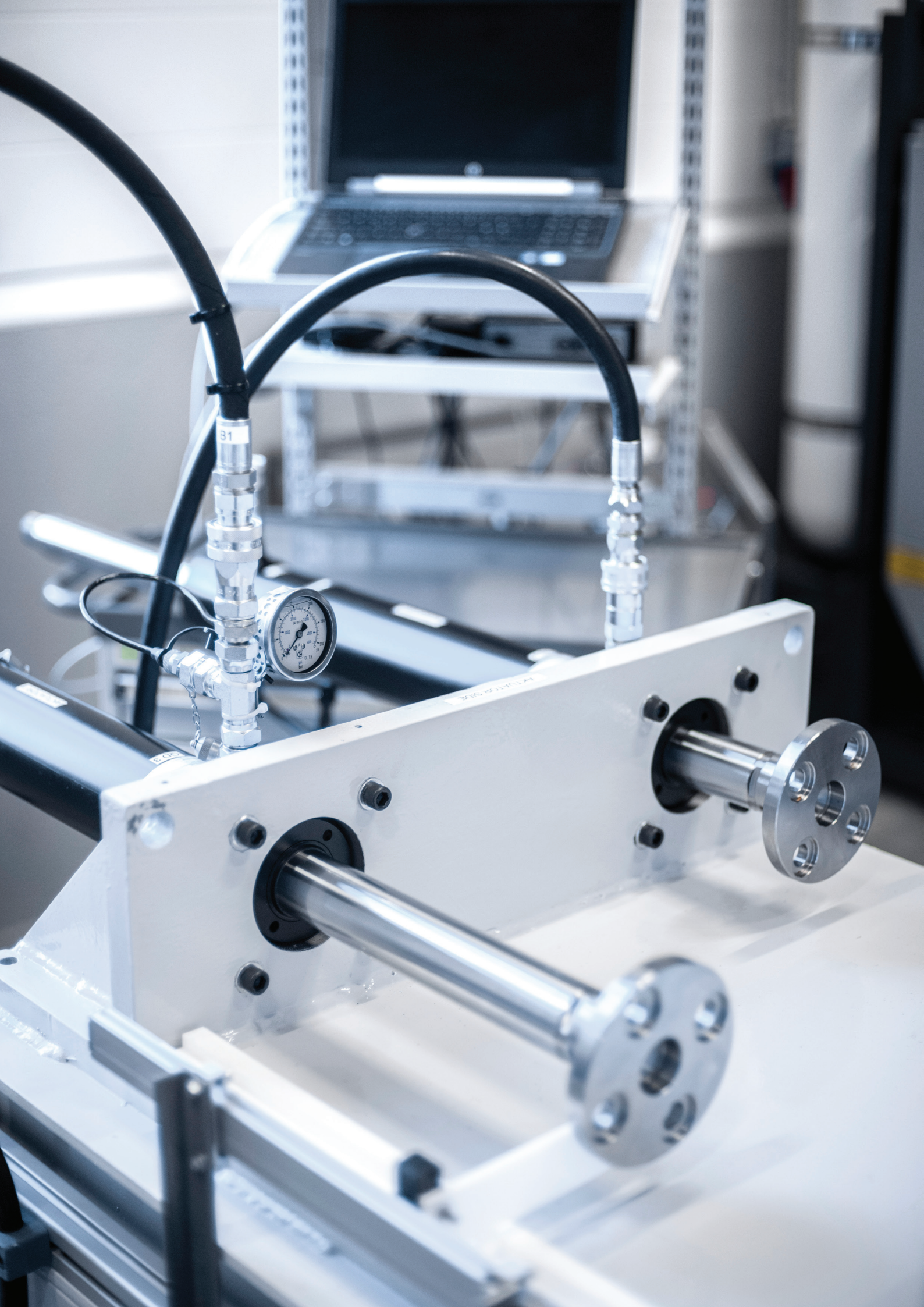
Always seeing ourselves as part of a larger context, it is the vision of Seal Engineering to be the strongest link in the chain. We recognise that all parts are important to the total performance of a system.

We are committed to develop and produce advanced sealing solutions, for demanding industrial applications. Seal Engineering has the experience, organisation, facilities and network to serve multiple industries, with our specialised know-how, innovative engineering skills and sincere customer care.

Seal Engineering AS is a Norwegian limited liability company that was established under the name of Seal-Jet Norge AS in 1997. The founders/owners have worked in the sealing business industry since the 1980s and are still active in the day-to-day running of the company.

The company name was changed in 2012 to strengthen and highlight the service aspect of our activity, so that we stand out both as a production company and a service provider in our industry.





A real life problem solver

Research, innovation & development

Seal Engineering explores and develops new sealing materials in our own research lab to provide a competitive edge to our customers.

Fast and flexible production of seals

With cutting edge technology and highly competent staff, we deliver prototypes, small series or replacement parts rapid and on budget. Just-in-time delivery provides cost efficiency.

Certified quality

Due to our extensive industry experience, we are well familiar with the requirements of demanding industries and applications. Our systems and staff are certified and approved, so that we can provide the specified quality.

Low lifetime cost

At Seal Engineering we strongly recommend to consider seals and sealing solutions in the lifetime perspective of an application. What is the consequence of system shutdown? What is the potential maintenance cost replacing low quality seals? What is the value of increased system performance?

The right seal - on time!

That is our promise to every customer, every time. Your job is to construct and build robust, high-performing systems, and you require sealing solutions of the same standard. You need a professional, focused and service-minded supplier which supports you in making the most of your products! Seal Engineering is that kind of supplier!



It's all in the details

We are updated on the latest technology, pushing materials and constructions to the next level. We explore and develop new materials in our own research lab to provide a competitive edge to our customers.

Available equipment:

- Differential Scanning Calorimeter (DSG)
- Thermogravimetric Analyzer (TGA)
- Dynamic Mechanical Analyzer (DMA)
- Universal testing machine
- Hardness tester
- Density meter
- Stereo microscopes (with digital cameras and measurement software)
- Test fixtures for material and seal characterization (e.g. compression set, molds, etc.)
- Ovens (for ageing, compatibility, drying)
- Sample preparation tools (CNC, molding press, cutting dies, etc.)
- Laboratory glassware and accessories
- Data acquisition software

We can offer:

Standardized physical testing

- Material datasheets, certificates, and test reports

Material quality control and assurance

- Incoming materials: raw rubber, semi-finished parts (cylinders, extruded rods, etc.)
- Items produced in-house: seals, back-up rings, etc.
- Handling with nonconformances
- Statistical process control

Research & development

- Material screening: PTFE composites, PU elastomers, new compounds, etc.
- Material development: rubbers (ETP, FKM, HNBR, MPU, FFKM), TPElastomers (PU), plastics and thermosets
- Process optimisation: rubber molding, rubber-to-metal bonding, plastics welding
- Storage and service lifetime evaluation

Failure analysis and root cause identification

Direct access to leading experts

Know-how, experience and access to our expertise are parts of each product we offer. With us, you will not have to wait on the phone, there will be no automated email responses, and you will always get a quick reply. 'Direct access' emphasises the benefit of being responsive. 'Leading experts' highlights the quality and technology of great value to our customers.

Advanced sealing solutions for advanced applications

We make a great number of sealing products in our factory. Once one of our solutions has been qualified, we standardise production for an efficient purchase-ordering relationship between us and the customer.

- Engineered sealing solutions
- Standard and customised sealing products for hydraulic and pneumatic applications in a wide range of materials
- O-rings
- Molded parts, rubber-to-metal bonding
- Spring energised seals
- Large diameter seals (ID<1500 mm)

The desired performance of a sealing system can be achieved with the use of standard seals or special seals. Seal Engineering AS has extensive knowledge and state-of-the-art technology to develop complex sealing systems. That's why our sealing experts can make your application perform to its full potential!





Seal Engineering AS
Produksjonsveien 12
N-1618 Fredrikstad

Phone: +47 69 38 17 70
E-mail: info@sealengineering.no
www.sealengineering.no

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