



Engineered Solutions



About us

Trelleborg Offshore Norway AS is one of the world's leading rubber companies in the offshore industry. As our core business is to protect against corrosion, increase safety through fire protection and secure flow by use of thermal insulation, our vision is:

Providing safety for people, environment and next generations



We design, manufacture, test and supply sophisticated rubber solutions based on our customers' requirements. We serve the marine, oil & gas industry, renewable energy projects, defense market, as well as the general industry and equipment manufacturers.

Our History

Trelleborg Offshore Norway, established in 1896, has been a major supplier of new products and tailored solutions towards the Oil & Gas industry for decades. Our track record proves and underlines our promises:

- **To create a win-win situation**
- **Reliable relationships**
- **Long lasting solutions**

Development

Trelleborg Offshore Norway is highly experienced in developing tailored solutions, combining the highest level of performance and competitiveness.

We have a well equipped laboratory and a unique Jet fire rig, with support from Trelleborg Group's extensive R & D resources; we have facilities and knowledge to meet future requirements.

Mobile factory/flexibility

Enabling us to do coating of pipes/equipment at our client's site, we have developed a mobile factory that can be mobilized worldwide.

Value Driven Company

Our Company culture is based upon a set of values chosen by the employees, reflecting our behavior and mindset.

- **Respect**
- **Responsibility**
- **Cooperation**
- **Humor**



Engineered Solutions

We develop customized products and solutions in close cooperation with our clients. We damp seal and protect, utilizing the unique material properties of rubber.

Replacing existing materials with rubber technology

Combinations of materials

Total solution provider

Applications served:

- Oil and Gas Topside
- Subsea
- Down hole
- Seismic
- Decommissioning
- Renewable energy: Wind energy farms and hydroelectric power plants
- OEM's and landbased industry

Team Engineered Solutions:

Our Engineered Solutions team consists of a highly skilled workforce that has worked with tailor-made rubber solutions for decades. Based on advanced polymer technology and in-depth applications know-how, we develop solutions that secure values and ensure safety in demanding industrial environments.

The applications spans from simple rubber parts manufactured in thousands by means of injection moulding, to complex press moulded rubber/metal constructions. We offer in-house full scale testing and third party verification by i.e. DNV.

In-house R&D and test resources.

Given the numerous considerations to be taken when evaluating a new material selection or product design, we undertake a number of international testing programs to ensure that adequate solutions are chosen for any given applications.



Customized Elastomeric Bearings

These are steel laminated elastomeric based bearings. They are used to accommodate axial, shear and rotational movement. A variety of high to medium load bearings can be manufactured to suit all specifications. It is commonly used in the offshore market with our specially formulated elastomeric compound which gives it resistance to oil-based process liquids. The thickness and number of elastomeric layers influence its vertical stiffness and its load carrying capability.

Applications: wind turbine foundations, other special high dynamic applications.

Heavy duty bearings

Trelleborg has a long tradition of manufacturing flexible sub structure elements combining rubber and steel. Traditionally this technology has been applied to the foundations of road bridges. Elastomers are an ideal category of maintenance-free material for offshore applications where energy absorption and vibration reduction combined with movement tolerance is required. Trelleborg use advanced modeling techniques to predict the stress versus strain characteristics and also study the fatigue life of our bearings.

Applications: any application dry, wet, in air or submerged, exposed to sunlight or oil.



Flexible seals

Trelleborg offers all kinds of flexible elements, used to seal off sections, gaps etc. between rigid materials. These flexible seals are capable of handling large displacements, absorbing misalignments and angular deviations. Flexible seals eliminate concentrations of stress effectively stopping the propagation of vibrations and dynamic loads.

Applications: any application dry, wet, in air or submerged, exposed to sunlight or oil.



Molded products and components:

We manufacture a large number of customized products and components to the general industry and OEM clients.

Typical products are: seal profiles, fenders, bearings, dampers, membrane, bellows, tolls/wheels, rubber/metal-parts, wear-segments, belts, coating protection on tanks etc.



Fenders, deflection elements, grip and wear segments:

We manufacture any sizes and shaped rubber element suitable to support dynamic structures and handling devices.

Typical products are: support elements, grips and deflection fenders for decommissioning applications.

OUR VISION:

Providing safety for people, environment and next generations

Please contact us for further information about our product range within:

PFP (Passive Fire Protection)
Engineered Solutions
Flexible piping system – ELASTOPIPE™
Thermal Insulation – Vikotherm
Defence
Rubber components
Corrosion-/HISC-protection

International representatives:

Please visit: www.trelleborg.com/offshore/no



Trelleborg Offshore Norway AS
P.O Box A, NO-3051 Mjøndalen, Norway
Kalosjegata 15, 3055 Krokstadelva
Tel.: +47 32 23 20 00
Fax: +47 32 23 22 00
offshore.norway@trelleborg.com