

A close-up, macro photograph of several concentric industrial seals or gaskets. The seals are made of a light-colored, possibly white or light blue, material with a series of small, dark, rectangular indentations or grooves along their inner circumference. The background is a deep blue, and the lighting creates a strong sense of depth and texture.

# Expert Sealing Solutions

Designed for Industrial Performance

Small things make **GREAT** things possible



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# About M Seals

M Seals is an international company founded in 1963 in Denmark, with offices in Sweden, the UK, Poland, Finland and China. Our many years of experience and knowledge make us a preferred sealing solutions supplier for customers worldwide.

We specialise in the design, manufacture and supply of sealing components and offer a comprehensive range of products tailored to different applications and industries. Our products range from standard seals, with thousands in stock for next day delivery, to customised solutions that meet specific requirements and special environmental conditions.

In 2007, M Seals became a part of Diploma PLC, giving us access to extensive resources and support. This affiliation allows us to offer expert advice, innovative solutions, and high-quality service, benefiting from shared knowledge and best practices within the group. This ensures we stay at the forefront of industry developments and deliver exceptional value to our customers.

**DIPLOMA** PLC





# Products



## O-RINGS & STATIC SEALS

O-Rings, O-Ring Cords, Metal O-Rings, M-Quick, X-Rings, Back-Up Rings, Kalrez®

An essential component in various industrial applications, including automotive, aerospace, and manufacturing.

Static seals provide reliable, leak-free sealing over an extended period of time. They are resistant to a variety of environmental factors, such as temperature changes, pressure, and corrosive substances. Easy to install and requiring little maintenance, they are a cost-effective solution.



## ROTARY SEALS

V-Rings, Shaft Seals, PTFE Seals, Mechanical Seals, Gland Packings

Rotary seals (or lip seals) are a vital component in machinery used across numerous industries. These seals are responsible for ensuring that fluids do not leak out of machines, while also protecting the internal components from dust, dirt and other contaminants.



## SANITARY GASKETS

SMS1149, ISO2853, DIN 11851, DIN11864, DS Sanitary Gaskets, Tri-Clamps

Sanitary gaskets are specifically used in stainless pipe systems in various industries, including food and beverage, pharmaceutical, biotechnology and chemical processing.

These seals provide a barrier between different parts of the equipment, ensuring that the product being processed remains uncontaminated and safe for consumption.

# Products



## HYDRAULIC SEALS

U-Rings, Rod Seals, Piston Seals, Wiper Seals, Wear Rings

Hydraulic seals are used in hydraulic cylinders, pumps, and other hydraulic equipment to control the flow of fluids and maintain pressure.

These seals are typically made from materials such as rubber or thermoplastic and are designed to withstand high pressures, temperature variations, and the friction caused by hydraulic fluid movement.



## KITS

O-Ring Kits, Hydraulic Cylinder Repair Kits

We stock a wide variety of o-ring kits in various materials, styles, and sizes for your specific needs. Kits can be assembled with any combination of standard o-rings, metric o-rings, square rings, x-rings, backup rings and more. Additionally, kits can be custom labelled, as well as have an accompanying chart designed to match o-ring sizes exactly.



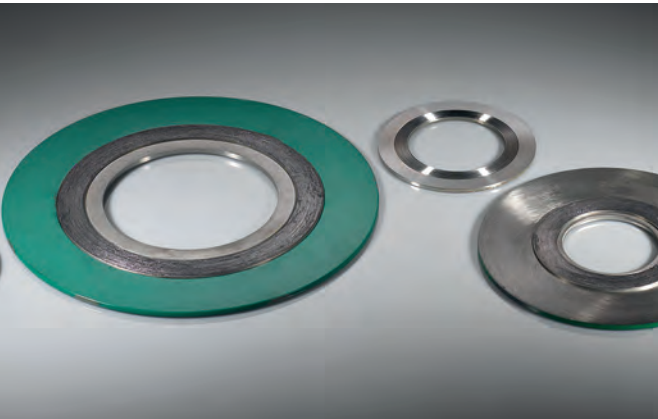
## CUSTOM PARTS

Moulded Parts

Custom-moulded seals and gaskets can be manufactured in a variety of rubber materials, precisely tailored to suit specific applications. We offer special material compositions to ensure that the seals and gaskets meet the unique requirements of the application.



# Products



## GASKETS & WASHERS

Bonded Seals, Washers and Flat Gaskets, Spiral Wound Gaskets

Essential components used for sealing and cushioning purposes. Gaskets play a crucial role in maintaining a system's integrity and functionality; being placed between surfaces to prevent fluid or gas leakage. Washers are used to distribute load and provide insulation.



## CIRCLIPS

Retaining Rings/Snap Rings

Circlips are semi-flexible fasteners designed to fix elements onto a shaft or in a bore/dwelling when assembled in a groove. They snap into position, typically within a groove to prevent them from moving.

We stock a wide range of retainers in a variety of designs and materials including standard phosphate spring steel clips, stainless steel and phosphor bronze. Special designs/coatings are also available.

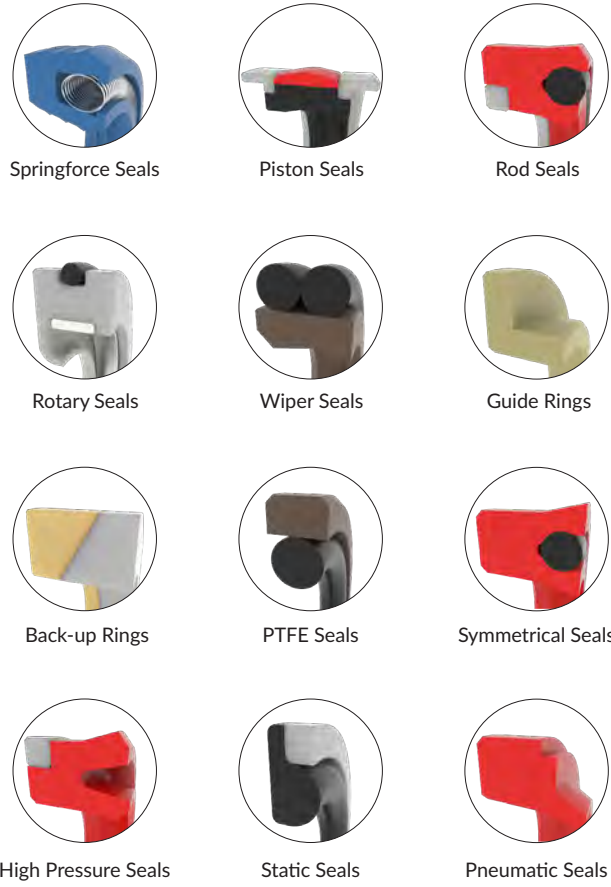


## PTFE SEALING SYSTEMS

M-FLEX®, M-GLIDE®, M-STEP®, M-TURN®, M-WIPE®, M-CAP®, M-GUIDE®

PTFE seals (polytetrafluoroethylene seals), are renowned for their exceptional performance and reliability in various industries. These seals offer numerous advantages over traditional sealing materials, including reliable sealing, extended seal life, reduced maintenance and enhanced system performance.

# Products



## ENGINEERED MACHINED SEALS

We specialise in providing customised sealing solutions that meet a range of requirements, for static and dynamic applications.

Engineered machined seals can be both technically and economically advantageous for all types of businesses, whether they are involved in service, development and maintenance, or are OEMs. In many cases, it is easier and faster to produce the seals in-house rather than ordering them from suppliers, saving valuable time and money.

**Standard & Custom Manufacturing**  
In addition to our standard seals, M Seals specialises in manufacturing quality sealing solutions in unique designs based on customer requirements. We emphasise a collaborative approach, working closely with customers to develop new seals and gaskets that precisely fit their application needs. We are able to respond quickly to unique sealing challenges, as we have over 240 different engineered material grades in stock.

Thanks to our extensive material stock and our 24-hour manufacturing operations, we aim to offer same-day dispatch for both our engineered seals and all stock items while guaranteeing that each product meets rigorous quality standards.

## MATERIALS

- Advanced Engineering Plastics (PEEK/PEKK/VESPEL™)
- Carboxylated Nitrile Rubber (XNBR)
- Ethylene Propylene Rubber (EPR/EPDM)
- Fabric Reinforced Composite (FRC)
- Fluorocarbon Rubber (FPM/FKM/Viton™)
- Fluoropolymers (PCTFE)
- General Engineering Plastics (POM/PA/PE)
- Hydrogenated Nitrile Rubber (HNBR/HSN)
- Metal Detectable
- Nitrile Rubber (NBR)
- Perfluoroelastomers (FFKM™)
- Polytetrafluoroethylene (PTFE/Teflon™)
- Polyurethane Elastomer (PU/TPU)
- Silicone Rubber (VMQ)
- Tetrafluoroethylene Propylene (TFE/P/FEPM/Aflas™)

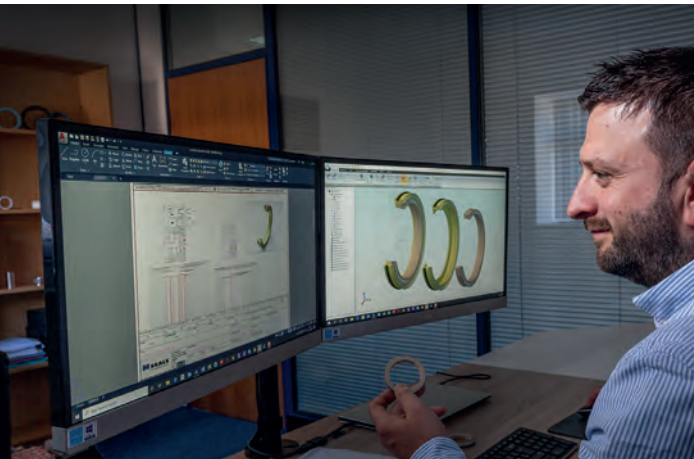


# Manufacturing

M Seals specialises in the design and manufacture of high-performance seals for the most demanding environments. Our in-house capabilities allow us to provide tailored sealing solutions for a wide range of industries, offering profiles and sizes to suit nearly any application. With state-of-the-art manufacturing facilities in Denmark and the UK, we are renowned for delivering fast, reliable and high-quality sealing solutions.

We craft seals to meet the unique requirements of each customer, ensuring optimal performance in specific applications. Our products are available with internationally recognised certifications, including WRAS, FDA, USP 3A, and more.

Our extensive material inventory, including PTFE, PU, EPDM, NBR, FPM, silicone, and others, enables us to quickly produce a wide variety of seals and gaskets. Each product undergoes rigorous quality control to meet industry standards and ensure the highest level of performance and reliability.



## DESIGN SUPPORT

Using CAD/CAM software

We provide comprehensive design and engineering support to address our customers' unique sealing needs.

Our process starts with a detailed technical consultation to fully understand the specific requirements of each application. Using our expertise, we design the most effective and tailored sealing solutions—even for the most complex challenges.



- 12 machines across M Seals locations globally
- Over 240 different engineered material grades in stock
- We can manufacture seals up to 850mm in diameter in-house (*larger seals available on request*)
- We aim for same-day dispatch



## LATEST TECHNOLOGY

Flexible and Fast Production

We continuously invest in the latest CNC manufacturing technology and sealing materials to ensure that we always deliver the best quality and service to our customers.

This technology allows us to handle a variety of materials, with a capability to manufacture seals up to 850mm in diameter in-house. We always meet specific customer requirements with efficiency and precision.

# Quality & Laboratory

Our quality department, which includes our test laboratory, is responsible for maintaining high standards of product quality and compliance, and validating our products to meet industry standards. In addition to overseeing activities such as quality control, quality assurance, documentation, compliance, and continuous improvement, the department has additional functions that focus on overall quality management.

With advanced equipment at our disposal, we can test crucial parameters for the optimal functioning of our seals, including hardness, specific gravity, and compression set and simulate sealing application environments and conditions. This allows us to select the correct material and design for our sealing solutions.

We also have capabilities and expertise in tensile strength testing, compression set testing, chemical resistance testing, temperature and pressure testing,

leakage testing, ageing, and weathering testing. These tests help us ensure the quality and reliability of our sealing components.

## TRACEABILITY

We use traceability to track and trace the complete history, location, and usage of products throughout their lifecycle. We recognise the importance of traceability as a means to ensure product quality, compliance, and customer satisfaction. This provides transparency, accountability and peace of mind to our valued customers.

In the rare event of safety concerns, quality issues, or regulatory compliance requirements, we can quickly identify and recall affected products, minimising potential risks and ensuring customer safety.



## CERTIFICATIONS

We are proud to be certified in several areas, listed below, and our own production is documented according to the IATF 16949:2016 standard.

- ISO 9001:2015
- ISO 14001:2015
- ISO 45001:2018
- EN 9120:2018



For certificates, please see:



## 100% VISUAL INSPECTION

We utilise automatic visual 100% inspection machines. These advanced inspection machines are designed to detect any dimensional or surface defects in our sealing products.

The 100% inspection process minimises the risk of receiving faulty products, reducing the likelihood of costly failures or downtime in their applications.





# Industries



## OIL & GAS

We deliver superior sealing solutions in high-grade materials that perform flawlessly day in, day out, in the aggressive environments found in the oil and gas industry.



## WIND POWER & ENERGY

Reliable and efficient low friction sealing solutions, that provide longevity between set maintenance periods as accessibility is usually limited due to their locations.



## PHARMACEUTICAL & HEALTHCARE

Our products perform flawlessly, ensuring optimal safety, efficiency and reliability, to keep products sterile, free of contaminants and compliant with regulations.



## DEFENCE & AEROSPACE

Our Quality Management System complies with EN 9120:2018, allowing us to supply to the aerospace, offshore, defence and critical application sectors.



## HYDRAULICS & PNEUMATICS

Seals limit contamination into the cylinder, prevent leakage, and endure and maintain integrity in high pressures, extreme temperatures and transverse forces.



## FOOD & BEVERAGE

We have a variety of high-performance, high-conformance food grade seals, with guaranteed compliance to the most stringent standards set by the industry.



## AUTOMOTIVE

Efficient and durable products that meet industry requirements and provide the tightest seal possible, to prevent fluid or gas from leaking out of a vehicle's moving parts.



## WATER & SANITARY

Our materials meet a wide variety of industry regulations and are performance tested under operating conditions for reliability in demanding environments.



## CHEMICAL PROCESSING

High-performance seals, to maximise efficiency and minimise downtime, including Kalrez® parts, with best in class chemical resistance to meet industry standards.



## HYDROGEN

Selecting the optimal materials for sealing solutions is of the utmost importance due to the safety-critical nature of hydrogen applications & industry standards.



## DATA CENTRES

Sealing solutions for data centres are a critical component in ensuring the safety, efficiency, and longevity of the infrastructure within these highly controlled environments.



## INDUSTRIAL MACHINERY OEM

High quality, reliable seals, engineered to help manufacturers optimise their equipment and machinery performance, and minimise downtime.



## HEAVY INDUSTRY & AGRICULTURE

Seals and gaskets engineered to prevent contaminants, leaks and wear, reducing maintenance costs and downtime - improving efficiency and machinery lifespan.



## MARINE

Seals that stand up to saltwater exposure, high pressures, temperature extremes and continuous motion, to ensure vessels, equipment, and systems remain fully operational.



## SEMICONDUCTOR

Sealing solutions, designed for precision and reliability, prevent contamination, protect critical systems, and ensure the flawless operation of semiconductor equipment.



## ROBOTICS

From manufacturing robots to autonomous vehicles and industrial automation systems, our seals are engineered for precision, reliability, and durability.

# ESG & Sustainability



## Driving Value Sustainably Together

With over 60 years of expertise in sealing solutions, M Seals provides environmentally responsible, customised and standard sealing solutions for diverse global industries.

As part of Diploma PLC, M Seals benefits from a decentralised model that fosters innovation, sustainability, shared expertise, and global resources. This collaboration strengthens M Seals' ability to deliver tailored solutions, enhance quality while reducing environmental impact, and expand its market reach, ensuring continued success in key industries.

By combining industry-leading expertise with a focus on sustainability, M Seals ensures clients achieve both operational and environmental objectives.







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