

## AUTOMOTIVE APPLICATIONS FOR O-RING SEAL



The O-ring seal developed and manufactured by Hutchinson is a proven seal for heavy goods vehicle and automotive applications.

Hutchinson designs custom or standard seals that can be used in static and dynamic assemblies. Our expertise covers all the extreme applications of the automotive and heavy goods vehicle industries: Engine seal, fuel seal, oil seal, transmission seal, air conditioning seal, etc.

Based on your needs, our team of engineers will create optimised O-ring joints, in terms of size as well as compounds. They will offer high levels of cleanliness and inclusion of specific surface treatments that reduce friction as well as facilitate the supply of our parts via automatic distribution systems.

- Products Family: **O-rings**

## TECHNICAL FEATURES

- Wide range of compounds: EPDM, NBR, FKM, HNBR, ACM, AEM, IIR, CR, VMQ, FVMQ seals.
- Low-temperature and high-temperature seals: Temperature range from -50°C to +250°C
- Low-pressure and high-pressure seals with a resistance range from vacuum to 2,000 bar
- Cleaning procedure compliant with ISO 16232 Standard
- Seal approved by major global manufacturers.

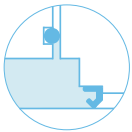
## **BENEFITS**

- Customizable
- Reliability

## **MARKET AND EXPERTISE**



AUTOMOTIVE & TRUCKS



Precision Sealing Systems

## **ALL PRODUCTS FAMILIES**

# **All Products Families for Automotive Precision Sealing Systems**



## **Shaft Seals**

They ensure the perfect sealing on rotating, or translating shafts under a large range of temperature. Our Dynamic Seals maintain lubricants in engines and transmissions while avoiding any foreign particles or fluid pollution.



## **Bearing Seals**

Our Bearing Seals guarantee the sealing for wheel, clutch, belt-tensioner or suspension bearings. Compounds, friction surfaces and lubricants are chosen and designed for lowering the energy consumption.



## **Bonded Pistons**

They transfer very rapidly hydraulic pressure to rotate or translate mechanical elements like clutches. Our compact design, associating homemade compounds and metallic or plastic inserts, offers a power efficient solution.



## **Magnet rings**

Thanks to the magnet pattern printed in an elastomeric or plastic compound, our Encoders can accurately provide position, direction and speed of a rotating shaft. You find it operating in engines, transmissions and ABS systems.



## **Precision Static Seals**

Braking, fuel, oil, air, water systems are operational if they do not leak. Their reliability results from our Precision Static Seals, made of approved materials, tailor made designs and mastered processes.



## **O-Rings**

Our O-Rings ensure perfect static and dynamic seals between two parts assembled radially (shafts) or axially (covers). Our O-Rings can withstand the most extreme temperatures and fit in the smallest spaces.



## **Grommets and Hole Covers**

Our Grommets and Hole Covers let only a wire harness or the steering column pass through the wall. No dust, no water, damped sounds and controlled heat flows are its goals. Thanks to our designs and proprietary materials.



## **Bonded and Overmolded Seals**

We provide highly effective static sealing solutions with maximum resistance to very high pressure and temperature such as: Access Panels, Flange Seals, Interface Seals, DT Seals.

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