



HUTCHINSON®



We make it *possible*

# SEALING & SENSING SOLUTIONS

ROBOTICS



# PROVIDING RELIABLE SOLUTIONS FOR AUTOMATION



Thanks to its know-how in material science and engineering, Hutchinson ensures a constant innovation and high performance of its sealing and sensor solutions. After demonstrating our excellence in the automotive, heavy-duty, aerospace, defense, rail and industrial markets, Hutchinson puts its expertise at the service of the robotics industry.

## TAILOR-MADE SOLUTIONS ADAPTED TO YOUR NEEDS

As a leading manufacturer, Hutchinson provides standard and tailor-made sealing and sensing solutions that meet the challenges of the robotics industry.

Whether it is for robots in home automation applications or production lines, motorized arms or logistics chain automation, our solutions are fully adapted to customer requirements and environments. Components are subjected to significant and repeated stresses: low or high temperatures, continuous vibration, and contact with aggressive fluids or gases.

Our know-how and material expertise ensure a high quality of products. From compounds formulation to the production in small or large series, we master

the complete value chain. Not only is the origin of the products guaranteed, but it also ensures resistance to the most extreme conditions. Our solutions are designed to offer maximum safety and performance over time.

Hutchinson guarantees a production process that complies with the quality requirements and latest regulations.



## OUR EXPERTISE

- > **In-house Manufacturing:** Development of compounds, realization of tools, manufacture of parts,
- > **Know-how:** Expert in elastomer formulation, technical support, design of tailor-made solutions, computer simulation, expertise in angle and speed measurement
- > **Wide offer:** Magnetic and inductive solutions, large dimensional range, all families of elastomers
- > **Supply chain:** From unit production to large-scale production



## SENSING SOLUTIONS

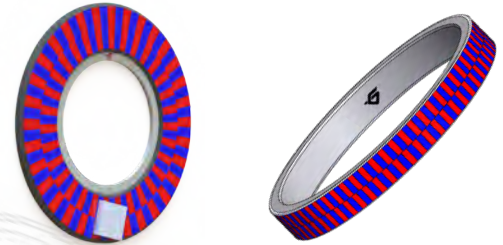
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### NONIUS MAGNET RINGS

Radial or axial magnet rings with two magnetic tracks for a precise and absolute position detection, compatible with the iC-MU Series from iC-Haus

#### Benefits

- › Optimized magnetic signal
- › Optimum adhesion adapted to high speed
- › Thin design for downsized housing (1,1mm for axial design)
- › Tailor-made or standard design



### INDUCTIVE SENSOR: DYMEO®

Inductive sensor for absolute angular position detection, tailor-made design

#### Benefits

- › Accurate – optimized by numerical simulation
- › Robust – to mechanical misalignment
- › Responsive – low latency (4  $\mu$ s)
- › True Power On - delivered information is available immediately when connected
- › Compact design
- › Low power consumption



## SEALING SOLUTIONS

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### DYNAMIC SEALING

Sealing function for rotating shafts, lip design protects the shaft from external pollution in severe environments

#### Benefits

- › IP67 compliant
- › Low Torque design - Low Power consumption
- › Tailor-made design
- › Compact design



## HUTCHINSON PRECISION SEALING SYSTEMS AROUND THE WORLD



## ABOUT HUTCHINSON PRECISION SEALING SYSTEMS

Leading manufacturer of sealing solutions, Hutchinson Precision Sealing Systems designs and manufactures static and dynamic sealing solutions, magnetic rings, absolute rotary sensor, foams and composites to meet the most demanding requirements.

Our 160 years of expertise has earned us the trust of major players in the automotive, aerospace, defence, energy, rail and industrial markets.

With 28 sites in 19 countries, Hutchinson PSS employs nearly 7,100 people and has a turnover of more than €591.5M.



[www.hutchinson.com](http://www.hutchinson.com)

## CONTACT

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## ABOUT HUTCHINSON



€3.879bn  
turnover



25  
countries



5% invested  
each year in  
research &  
innovation



100 sites  
around  
the world



> 38,000  
employees