HUTCHINSON®

We make it ***possible***

RUBBER TECHNICAL PARTS

STEEL INDUSTRY

OPTIMISE FLAT STEEL PRODUCTION THANKS TO **RUBBER SOLUTIONS**

To contribute to improve the quality of steel products,
Hutchinson designs and develops sleeves and rubber covering solutions for roller.
The solutions developed by Hutchinson meet the most demanding chemical and physical requirements.

RUBBER SOLUTIONS FOR THE STEEL INDUSTRY

In the steel industry, rollers are essential elements for shaping metal products. They contribute to precise and efficient rolling to meet specific customer requirements.

Thanks to our expertise in materials, we develop and manufacture roller covering solutions and expandable sleeves in technical rubber.

Our products withstand mechanical stress and aggressive environments thanks to a customized design adapted to the characteristics of the metal. They help to extend the life of parts, reduce maintenance costs, preserve the quality of finished products and improve the performance of production lines.

RUBBER COMPOUNDS MEETING THE MOST DEMANDING REQUIREMENTS

We develop and manufacture our own elastomers. Our experts can help you determine the most suitable compound for your application.

Main characteristics by rubber family

Rubber family	EPDM	NBR	HNBR	CR	CSM	Natural Rubber	AEM	VMQ	IIR
Hardness (Shore A)	25 to 80	30 to 90	60 to 90	50 to 80	30 to 90	40 +/-5	30 to 90	30 to 85	30 to 90
Temperature (°C)	-40/+130	-55/+115	-50/+150 *(+190 peak)*	-40/+95	-45/+120	-60/+70	-40/+150	-60/+200	-40/+20
Mechanical properties									
Flexibility	✓		✓	✓					✓
Elasticity		✓		✓		✓			
Abrasion resistance		✓	✓	✓	✓	✓			
Breaking strength				✓		✓			
Tensile strength		✓		✓	✓	✓			
Water, diluted bases and diluted non-oxidising acids resistance	✓			✓	✓				✓
Mineral oils and petroleum products resistance		✓	✓						
Ageing resistance: ozone, air, light, heat			✓		✓	✓	✓	✓	
Gas impermeability									✓
Resistance to flame propagation				✓					
Electric resistivity								✓	✓

RUBBER ROLLER COVERING & EXPANDING SLEEVES FOR THE STEEL INDUSTRY

Our rubber rollers covering solutions and sleeves ensure the quality of steel products throughout the steel transformation process.

- Rubber covering enables the customization of rolls to specific stages of the rolling process ironing, tensioning, pinching, pressing or drawing. Selecting the appropriate technical solution ensures accurate and high-quality lamination.
- Our rubber expansion sleeves stabilise the unrolling and coiling of strips. Adaptable to any diameter and any mandrel expansion, they enable to standardize coil diameters and to replace metal extensions. Special grooves are designed for better adhesion and to avoid marking the first turns.

PINCH ROLLER

Good mechanical properties. Various uses : conveyor roll, deflector, tensioner or laminator

BAND SUPPORT ROLLER

Drives and guides steel sheets with performance

UNROLLING SLEEVE

Adapted to the mandrel to stabilise the strips unrolling

DEFLECTOR ROLLER

Evacuation of corrosive and abrasive fluids. High level of grip

Our solutions are developed to meet the requirements of the key stages: stripping, degreasing, coating (galvanising, tinning, electro-galvanising, painting).

Advantages :

- High mechanical and chemical resistance
- Abrasion resistance
- Resistance to acidic and basic fluids
- Very good coefficient of friction

WRINGING ROLLER

Excess of liquid is removed.
High mechanical and chemical resistance

WINDING SLEEVE

Ensures a good strip winding and standardisation of coil diameters

IMMERSED ROLLER

Chemical treatment to descale the final product

SILICONE ROLLER

High temperatures resistance.
Suitable for rolling mills and bright annealing lines

TAILOR-MADE IS OUR STANDARD

Our expertise in rubber enables us to produce rubber covering for rollers and expandable sleeves tailored to your needs, as well as customised solutions for sealing and protection. Designed to withstand the most extreme conditions, our products of all sizes guarantee reliable, long-lasting performance for your applications.

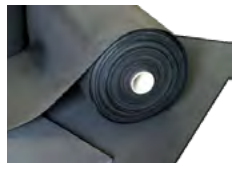
Our R&D and technical teams provide ongoing support to our customers in the realisation of their projects. As experts in elastomers, we have a wide selection of in-house manufactured rubbers. We offer rubber solutions reinforced with fabrics, metal inserts or composite reinforcements.
We have expertise in a range of production methods, including moulding, overmoulding, extrusion, heat bonding and lining.

Whether it is for original equipment or maintenance requirements for non-standard parts, we can produce technical rubber parts in medium and small production runs, or by the unit.

Our customised solutions are designed to meet the most complex needs of our customers in demanding sectors such as rail, nuclear, mining, defence and steel.

Covering and stripping of rollers

Overmoulded parts rubber to metal or fabric



Sheets & plates on request

Rubber coating on metal parts

Hoses & Sleeves

Sealing profiles

Expandable sleeves

MAINTENANCE AND RECONDITIONING OF USED ROLLERS

As part of our commitment to the circular economy and sustainability, our teams maintain your damaged cylinders.

We strip your used rolls and apply a new rubber covering tailored to your needs.

Reconditioning rolls extends their lifetime, optimises their performance and reduces maintenance costs and times.

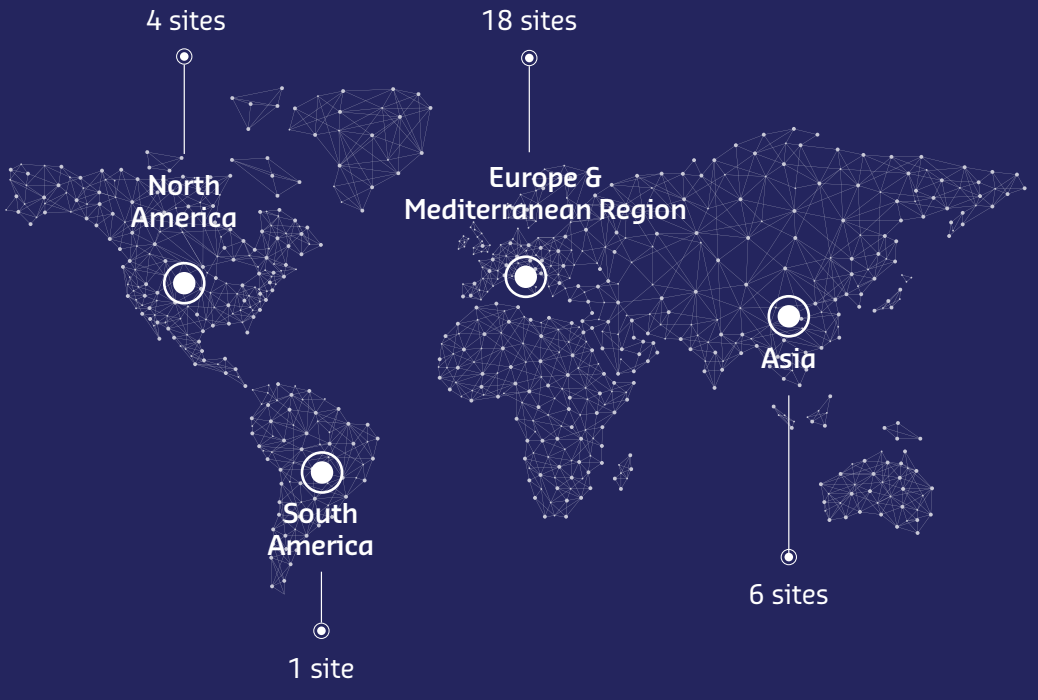
All our solutions are developed and manufactured in France at our site in Roubaix.

FABRICATION FRANÇAISE

ISO 9001 COMPLIANT

HUTCHINSON®

HUTCHINSON PRECISION SEALING SYSTEMS AROUND THE WORLD



ABOUT HUTCHINSON PRECISION SEALING SYSTEMS

As experts, we formulate our own compounds and process rubber to meet the most demanding requirements.

Our Roubaix factory designs and manufactures technical rubber parts with high added value, in small and medium production runs. Our capabilities enable us to manufacture parts of all sizes, in all ranges of rubber compounds and for all types of application.

During our 170 years of expertise we have earned the trust of major players in the automotive, aerospace, defence, energy, rail and industrial markets.

With 28 sites in 18 countries, Hutchinson PSS employs more than 7,200 people and generates sales of around €700M.

www.**hutchinson**.com

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ABOUT HUTCHINSON

€4.8bn turnover

25 countries

5% invested each year in research & innovation

100 sites around the world

> 43,500 employees

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