



# Custom-made Elastomer parts

For unique applications  
in a wide range of industries



# 120

**years of tradition**

**In 1896 Edouard Kalker set up the 'Manufacture Générale de Caoutchouc et d'Ebonite' company in Les Lilas near Paris.**

The flagship product at that time was the bulb for the horns of the first automobiles. Notable dates in the growth of the business include the 1961 move to La Flèche in the Loire valley and the incorporation of the **Hannecard group** in 1997.

In the molding and extrusion sector, the purchases of Huber & Suhner (Switzerland - 2003), Ziegler (Bas-Rhin - 2004) and Manufacture Bordelaise de Caoutchouc (Gironde - 2009) have bolstered our product range and grown our skills set. Our production of technical elastomer parts is concentrated on these 4 sites. In addition, the presence of Hannecard in more than 20 countries is a very strong driver of our growth.

The demands of clients and markets have evolved and we always supply tailored solutions which are suitable for the most demanding cutting-edge sectors: defense, offshore, nuclear, specialist machine parts, etc. In each of these sectors we are passionate about identifying the challenges which arise by offering our expertise in the formulation of elastomers, the creation of tools and the final production in compliance with the specifications.

# Our approach is based on a simple philosophy which can be summarized by **3 main principles:**

# 1

## **Control of elastomers from A to Z.**

From the creation of the formula by our in-house laboratories, via the production of the compounds, to the extrusion of profiles and the molding of parts, we ensure constant control of the process and guarantee the traceability of our production processes.

# 2

## **A long-term approach.**

We always want to develop our solutions in close partnership with our customers in order to build a long-term relationship.

We have been working with some of them for more than 50 years and we are constantly adapting to the latest regulations such as REACH or the various local regulations regarding suitability for contact with food or treated products (drinking water, medical, vacuum, nuclear, etc.).

# 3

## **Identifying the technical challenges.**

We have more than 1,000 elastomer formulas and we are regularly developing new ones in order to better meet the evolving requirements of our customers. Among the many examples of challenges which we have faced, the one which has received the most media coverage is without doubt supplying seals for the third containment arch on the Chernobyl nuclear power plant.

# Our products

## Extrusion

We have more than 9,000 dies and we are always creating new ones. Thanks to our extruders we are able to offer our unique capabilities for the production of extruded profiles made from natural rubber, nitrile, EPDM, fluoro rubbers, silicons and many others.

Along with our expertise in compounds, our success in producing profiles also relies on our mastery of vulcanization. Thanks to the unique extrusion and vulcanization techniques we guarantee the best features and highest precision.



## Molding

With more than 18 presses, polyurethane casting equipment with no real dimensional constraints and more than 1,000 elastomer formulas, Hannecard offers unique capabilities to produce molded parts.

The design and approval of the molds is managed internally by the design office.

For rubber and silicon, as a specialist in small and medium production runs, Hannecard is an expert in two molding technologies: **compression molding** and **compression-transfer molding**.



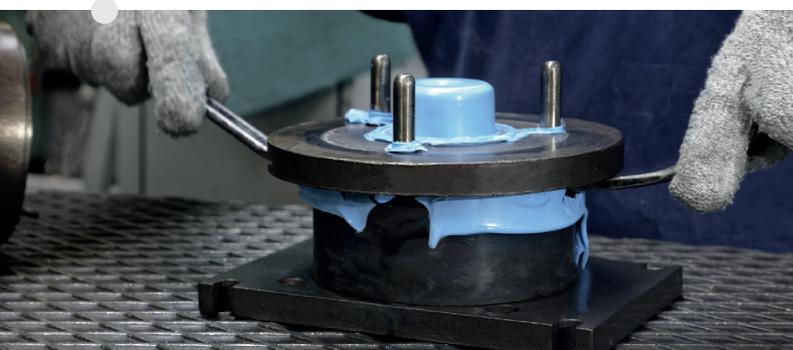
## Calendering

We also offer rubber or silicon vulcanized sheets with a fabric grain or smooth appearance in thicknesses to suit requirements and widths of up to 1,500 mm.

From these base products, we offer all shapes and sizes of flat cut-out gaskets.

Solutions with textile backing are controlled by our operators in the calendering workshop.

To round out our offer, we also manufacture and resurface polyurethane sheets.



## Tailoring

Our "tailoring" department deals with all parts for which raw rubber is applied manually.

This tailoring allows us to supply parts with very specific shapes, and can also assist with bonding operations for complex shapes and/or unusual dimensions.

### Some examples include:

- Production of a bellows with underlayer
- Production of corner blocks for hydraulic seals
- Production of very large diameter O-rings



## Compounds

Hannecard devises and manufactures its own compounds. With more than 120 years of experience, Hannecard has more than 1,000 formulas for elastomers and regularly develops new ones.

These compounds cover all groups of rubbers and can be supplied in the form of sheets, calendered rolls or strips.

Each compound supplied is thoroughly checked by our laboratory to confirm that the quality matches the specifications.

Our laboratory can also support you in the development of a new compound and has the ability to analyze any existing compounds, should you wish to know more about their properties.



## Our Capabilities

### Our extrusion capabilities

- Profiles from just a few mm<sup>2</sup> to more than 22,000 mm<sup>2</sup>
- Straight seamless lengths of up to 33,000 mm
- < 33 kg/linear meter
- Hardness: from 20 to 90 Shore A

### Our molding capabilities

- Molded rubber and silicon parts up to 2,000 x 1,000 x 500 mm - Hardness range from 10 to 98 Shore A
- Molded polyurethane parts up to 2,000 x 2,000 x 8,000 mm - Hardness range from 10 Shore A to 82 Shore D
- Solutions for overmolding of metal inserts

### Our calendering capabilities

- Sheet width up to 1,500 mm



# Our markets

Hannecard supplies elastomer parts for any type of industry. Thanks to our wealth of experience and our continuous innovation, you can be sure that you will always get the ideal solution.



**Defense**



**Marine & Offshore**



**Infrastructure**



**Transport**



**Agriculture & food**



**Industrial**



**Energy**



**Others**



# Our services

Complementary services for the production of your technical parts are summarized below:

- **Creation of tools**
  - Extrusion dies
  - Molds
- **Customized analysis and development**
  - Definition of customized elastomer types
  - Specific tests required by customers
  - Analysis of existing elastomers
  - Research and development laboratory
- **Digital simulation**
  - 2D and 3D simulation
  - Performance analysis of parts in the final usage configuration
- **On-site installation/expert advice**
  - Installation by qualified and equipped personnel, safety trained in the most exacting sectors
  - Close support from 'single point of contact'

**Do you need a custom-made solution  
or a quotation?**

**Contact us**

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