



Silicones techniques  
Haute performance  
*High performance technical silicones*

2023 Presentation



We create silicone solutions to boost your performance



Conseil & développement  
*Consulting & development*



Impression 3D  
*3D printing*



Moulage  
*Molding*



Extrusion  
*Extrusion*



Confection  
*Making*



**Industrie**  
**Industry**



**Santé**  
**Health**



**Transports**  
**Transportation**



**Energie**  
**Energy**

# Our story

1996



Creation of Sterne by Jean-Claude Scardigli and Céline Laget.

1999

Extension of Sterne's manufacturing activities – 1<sup>st</sup> clean room.

2005

New premises – Establishment at Cavaillon (84) – production, storage and administration are gathered. Certification ISO 9001 obtained.

2006

Certification ISO 9001 extended to all Sterne's activities. Certification ISO 13485 obtained for the medical field.

2010



New logo.

2016



20 years of Sterne.

2018



Expansion of the premises – Sterne gets its first star, and continues its growth by enlarging and reorganizing its spaces.

2022



Sterne joins the EXSTO group and becomes a mid size company. New front for the building – Sterne continues its modernization. New logo

# The Exsto group in 2022



Ann Arbor  
USA

Itupeva,  
Brazil

Romans sur Isère, France  
(Headquarters)  
Hostun, France  
Grigny, France  
Cavaillon, France  
Vilanova Mondovi ,Italy  
San Lazzaro di Savena,  
Italy

Tokyo,  
Japan



355  
employees



9 sites

| Headquarters in  
Romans-sur-Isère - FR



80M€

Forecast 2025

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More than 50% at export

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PLASTIC

POLYURETHANE

RUBBER

SILICONE



AUTOMOTIVE



SUBSEA



INDUSTRY



MEDICAL

# Today and tomorrow

## Our purpose

Provide innovative silicone solutions to achieve responsible industrial performance.

## Our mission

Satisfy our partners by putting our resources and silicone skills at their service.

## Our vision

Perfecting Performance.

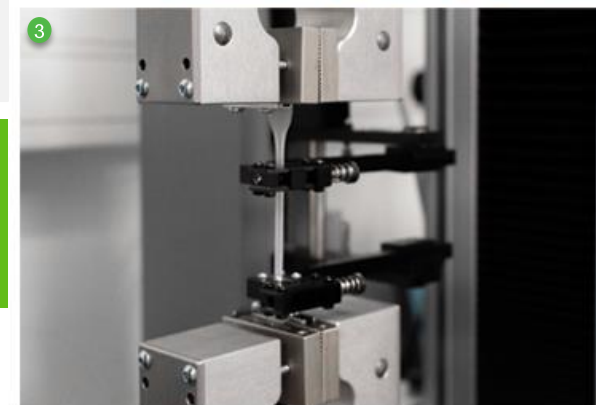
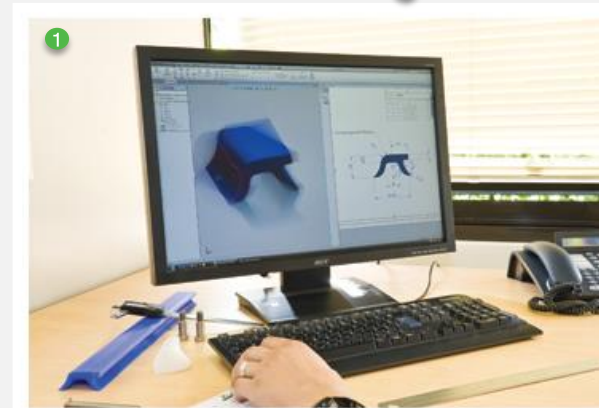
## Our values

- The respect
- The collective intelligence
- Professionnalism
  - Technical
  - Expertise
  - ISO 9001:2015 and ISO 13485:2016

## Our ambition

Become one of the main player in the silicone market

- 1 Design Office
- 2 Clean Room
- 3 R&D
- 4 Quality control



## Sterne en chiffres

**27 YRS**  
of expertise  
in the conception,  
development  
and manufacturing  
of silicones products

**13,5M€**  
turnover  
2022



**HEALTH**  
Our core market  
53% of the turnover

More  
than **1000**  
clients

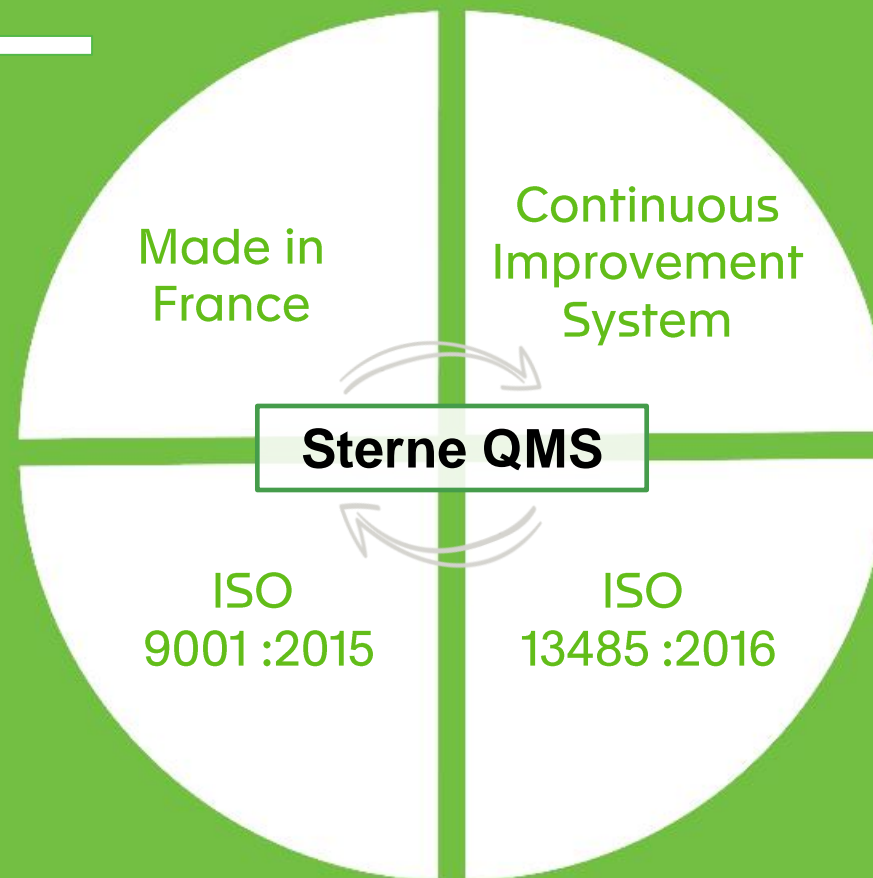
A team of  
more than **67**  
persons

**35%** of  
the turnover is  
international

**5 CLEAN  
ROOMS**  
ISO 6  
ISO 7  
ISO 8

**4000** sqm  
factory

Quality management system :  
our priority,  
your satisfaction



MADE IN  
FRANCE



# Our markets

Our silicone expertise allow us to support you in many areas such as :

Health

Transportation

Energy

Industry





Multidisciplinary  
know how  
and an expertise  
in the matter

Conseil & développement  
*Consulting & development*

Moulage  
*Molding*

Extrusion  
*Extrusion*

Confection  
*Making*

Impression 3D  
*3D printing*



# Consulting & Development : a personalized support through all the steps

## Need

Client side : definition of the need

## Analysis

Client side : idea, concept, market studies, project fitting

Sterne side : requirement analysis, feasibility assessments, silicone advice

## Prototyping

Sterne side : product research, functional conception and product drawing, prototyping

Client side : prototypes validation

## Development

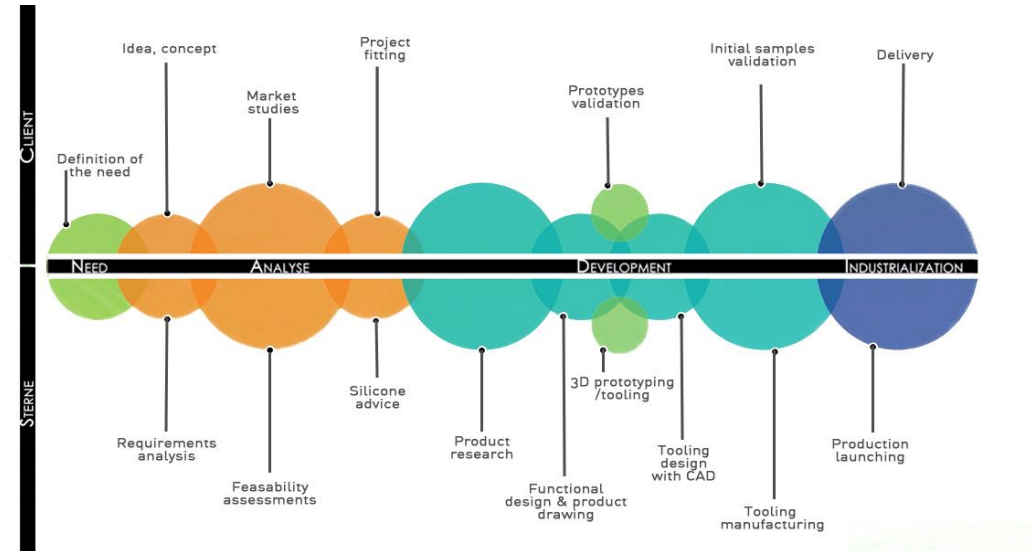
Sterne side : tooling design with CAD, tooling manufacturing, samples manufacturing

Client side : samples validation

## Industrialization

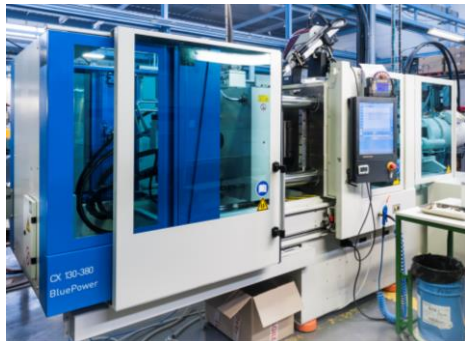
Sterne side : production launching

Client side : products reception (delivery)



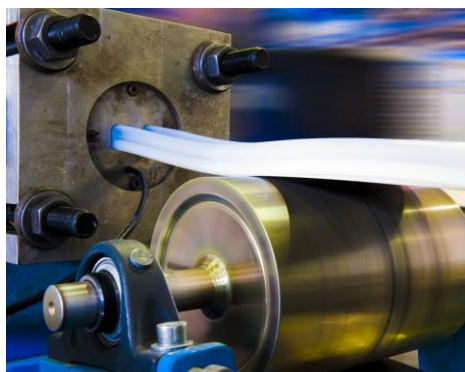
\*Your technical tool and product plans will be made using SolidWorks® 3D software

# Our equipments : a wide range of technical solutions to meet your highest expectations for a silicone product



## Molding

Compression presses from 10t à 400t  
Injection presses (HCR & LSR)  
Automated Injection molding  
Tolerances according to ISO 3302-1  
standard Cat M2, M1 or tighter



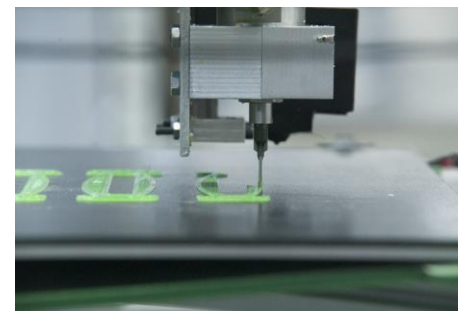
## Extrusion

Extrusion lines for screw diameters from  
40 to 90mm  
Industrial extrusion lines  
Clean rooms extrusion lines  
Post-cured oven  
External mixers



## Making

Workshop with vulcanizing press and « C-  
frame » press  
Cords, sections and profiles vulcanized  
into rings  
Frames with 90° angles or other angles  
Inflatable silicone seals according to  
specifications  
Silicone sleeves  
Customized making  
Components assembling



## 3D printing

Additive manufacturing technology by  
depositing filaments of 100% UV-cured  
silicone  
Small and medium series manufacturing  
Recovers 100% of the strength and  
elongation properties of the injected  
finished product



Possible manufacturing dimensions :  
500x500x500mm

Hardness from  
10 to 80 shore A

A minima printing layer  
of 0,1mm (100microns)



# Our environments : dedicated spaces to answer your specific needs



## 700sqm of clean rooms

5 production ultra-protected spaces classified ISO 6 (3 rooms - molding/calendering / making) / ISO 7 (automated injection) and ISO 8 (extrusion) for the manufacturing of your medical devices.

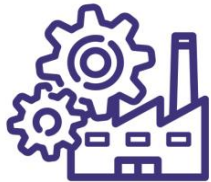


**In the respect of the standards** ISO 9001-2015 and ISO 13485-2016, Sterne transforms exclusively medical grade platinum-catalysed silicones, that is implantable in the human body for the short or long term.



**These production spaces with controlled access** are subject to regular particulate and bacteriological controls according to ISO 14 644 standard.

# Our environments : dedicated spaces to answer your specific needs



## 2500sqm of industrial workshops

Environments dedicated to the manufacturing of pieces for all industries.

## Complementary know-how

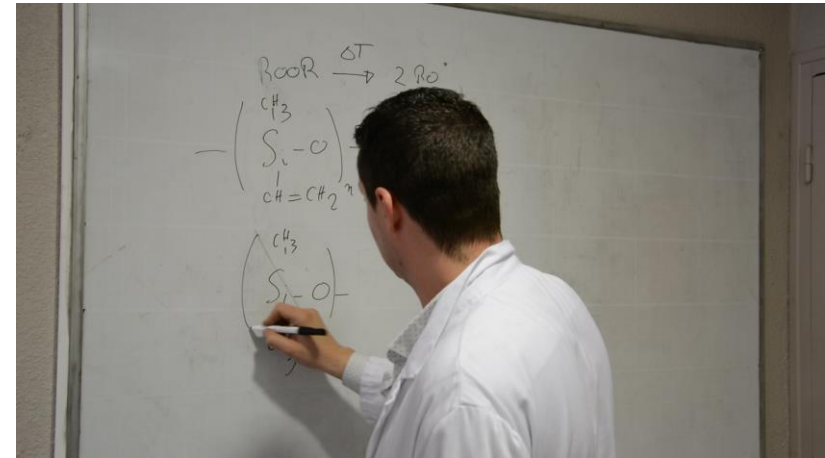
- molding
- extrusion
- making
- finition touch



## Silicone expertise

to answer most demanding expectations.

# Our environments : dedicated spaces to answer your specific needs



## Laboratory

A space and equipments dedicated to research and development

## Our equipments

Vacuum oven

Traction machines (from 25N to 250N)

Durometers (ShOO & ShA)

Density meter

Other devices or equipments can be involved to develop project specific tests



## Silicone expertise

Sterne brings you its silicone expertise and experience with material and technical solutions.



# Our environments : dedicated spaces to answer your specific needs

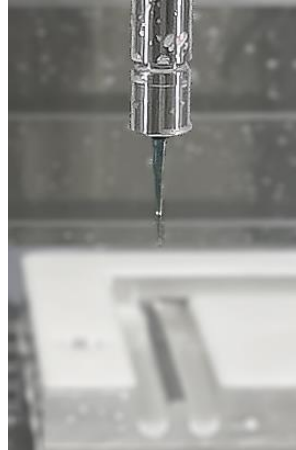


## Machine workshop

A space and equipments dedicated to the manufacture and maintenance of tools.

## Our equipments

- Milling machines
- Lathes
- Grinding machine
- Microwelding station



## Mastering the production line from A to Z

Sterne masters the production line from A to Z, allowing gain of time and investment securing for its clients.



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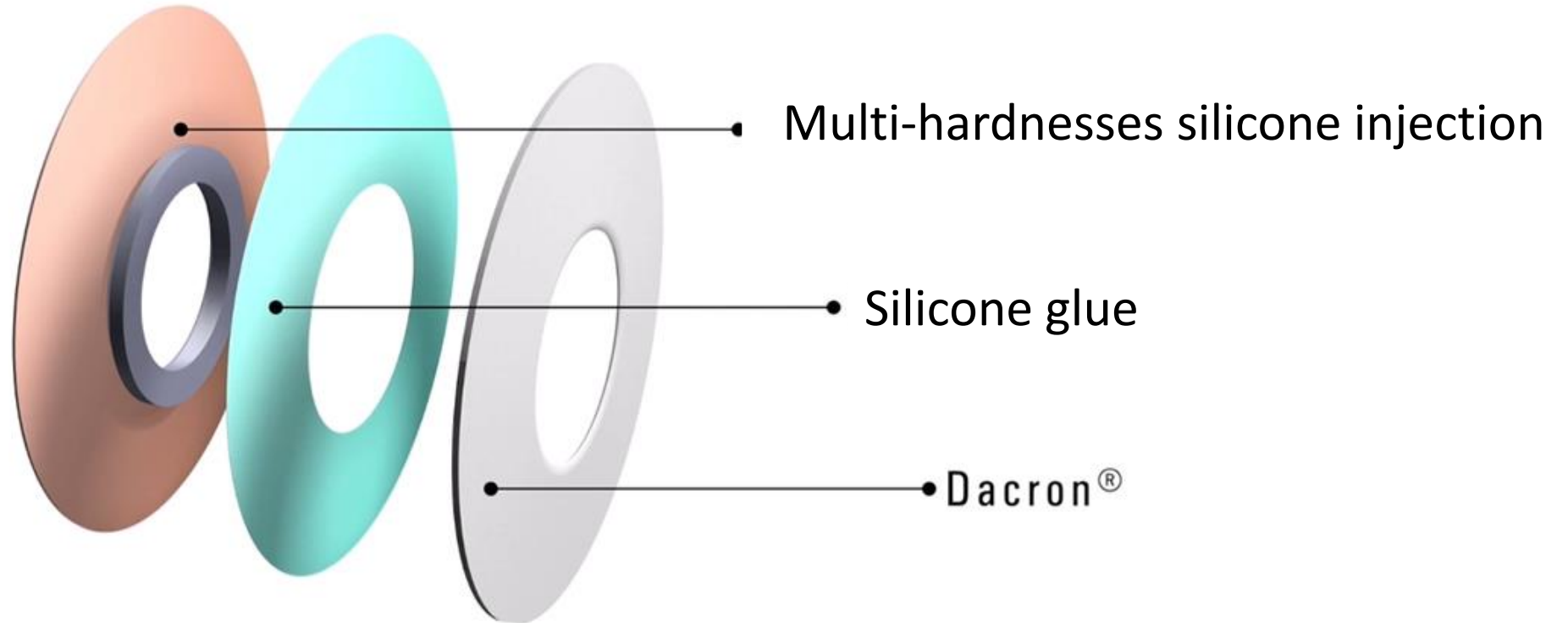
## They trusted us





Artificial  
heart

Multi-hardnesses overmolding  
Making



Gastric  
sond

Co-extrusion  
Molding  
Making



• Tampoprinting

Kegel  
trainer

Liquid injection molding



# Fizimed



Medical grade  
silicone

Anti-drugs  
Glass  
protection

Injection molding



DRINK<sup>®</sup>  
WATCH



Food silicone

Food  
contenant

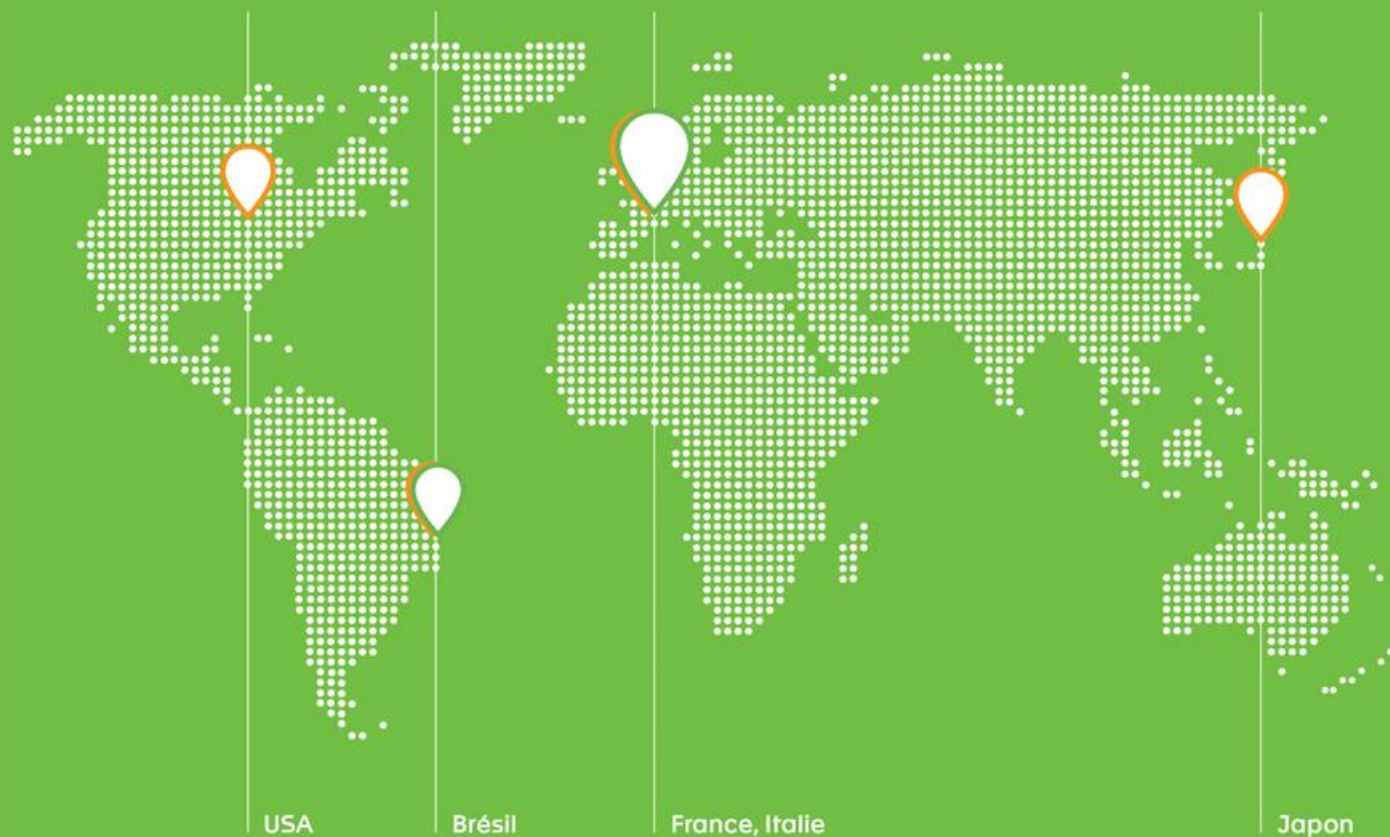
Liquid injection molding



**Qwetch**  
DO IT WITH PASSION

• Food silicone

## The EXSTO group in the world



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