

Plastunion range

Soft plastic
for **inflexible** security





Plastunion, a plastic manufacturing specialist

Plastunion is a division of the Piercan S.A.S. Group specialized in the design and the manufacturing of sealed structures and custom accessories made from flexible plastic materials. With a wide array of materials adaptable to different environments, Plastunion allows users to work in difficult environments, where the human presence is irreplaceable.



20 M€

annual turnover
for Piercan Group



180

people
in France and in the USA



3

manufacturing facilities
Port-en-Bessin, Paris and San Diego



62

Piercan products are distributed
and sold in 62 countries

VARIOUS SECTORS
OF **ACTIVITY**



SECTOR 1
Pharmaceutical
industry



SECTOR 2
Nuclear
Industry




SECTOR 3
Construction
Industry



5000
Listed customers

THEY TRUST
US...

SANOFI PASTEUR 

BELG
PROCESS 

 camfil

 orano

Products tailored to your challenges

Whether you are looking for a particular product or a solution that requires the expertise of a specialist in the plastics industry, Plastunion offers the right answer. For specific requests, our engineers will accompany you in the development of your customized product. In addition, an extensive catalog of "standard" parts and patterns is available.



PLASTUNION'S HIGHLIGHTS



Advice and support



Plastunion design office



Large choice of materials



Prototypes and full series



Large stock of raw materials

TAILOR-MADE BY PLASTUNION

- Analysis of your specifications by the design office
- Advice and service on the use of products
- Choice of material
- Choice of finish (hem, seals...)
- Tools development (patterns, cutting shapes)

A production unit is dedicated to the production of Plastunion products (prototypes and series).

AN EXTENSIVE CATALOG OF PRODUCTS

For your standard requests, the Plastunion catalog has a wide selection of flexible plastic structures and accessories. Catalog products are available quickly and at competitive prices.

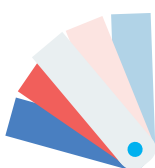
In addition, Plastunion offers you a wide choice of patterns, so you can select the right shape and material for you.



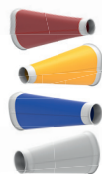
ADVICE AND EXPERTISE

Whether customized or catalog parts, Plastunion advises you on the development of your product line and its implementation within your production units.

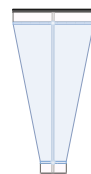
Plastunion has the expertise to develop and qualify innovative solutions.



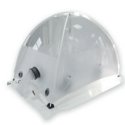
200 000
INTERVENTION
ARTICLES
per year



100
UNIQUE
PROTOTYPES
per year



25
TYPES OF
TECHNICAL
SHEETS



4
TYPES OF
PVC COATED
FABRICS



850
EXISTING
PATTERNS

From design to the final piece

Based on your requirements, whether it is custom parts or parts from the catalog, Piercan offers you the best solution via a controlled process - design, manufacturing, inspection. Quality has always been the focus of all our attention.

DESIGN



• **Design office:** Analyzes your requests and assists you in finding the most suitable solution. The design office also plays a role in developing new products in three stages:

- Choice of material: nature, color, transparency and physicochemical properties.
- Product development: draw the shape according to the shaping technique.

• Prototyping: form taking and dimensioning, creation of drawings, cutting of templates, development of tools, realization.

• **Economic optimization:** the study of solutions adapted to your needs integrates quality factors, delays and production costs, thus facilitating the economic optimization of your project.

MANUFACTURING

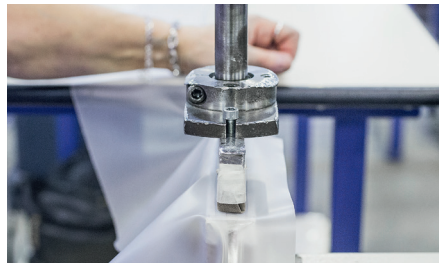


• The cut

For cutting, we use circular blades and vibrating blade scissors.

Semi-automatic end cutting:

- Cutting in mattress format
- Cut to size
- Unit cut to the shape



• The welding

- Manufacture by high frequency welding (chemical bonding of the materials by molecular stirring created by a high frequency field).
- Technology that guarantees perfect sealing of the assemblies.
- Powerful, extensive welder pool suitable for containment items.
- Wide range of electrodes.



• Properties

- Compatible with cleaning, decontamination and disinfection agents.
- Glove box and insulator handling welds: strong, flexible, smooth and resilient.

AVAILABLE MATERIALS



Crystal or translucent soft sheets

PVC [VINYL POLYCHLORIDE]

M1⁽¹⁾ pink quality / M2⁽¹⁾ crystal quality / Antistatic crystal quality / Enhanced quality

PUR [POLYURETHANE]

Non-slip quality / Sliding quality / Antistatic quality

PeEBA [POLYETHYLENE ETHYLENE BUTYL ACETATE]

Single-sided coated fabrics

LIGHT FABRIC [320g/m²] - M2⁽¹⁾ QUALITY

Colors: blue / white / red / yellow

HEAVY FABRIC [580g/m²] - M2⁽¹⁾ QUALITY

Colors: blue / white / yellow

THREE-STAGE INSPECTION

We guarantee the quality of our products by supervising every stage of the manufacturing process:



1 • Prior inspection of the raw materials and tools along with a check of the custom dimensions using our production management software.

2 • Inspection of the physicochemical parameters by the quality control laboratory and the production parameters by the operators during production.

3 • Inspection of the finished product



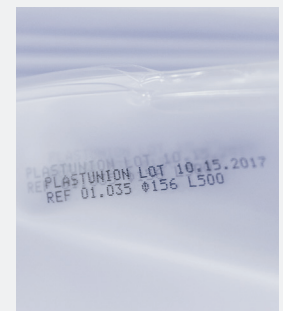
Sealing control

Leak detection (70 to 100 mm CE pressure, 700 to 1000 Pascal).



Weld control

Visual check following photo library.



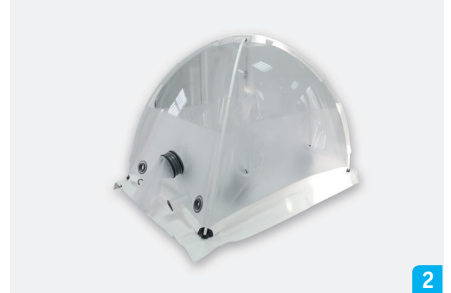
Marking

Identification of the inspected part for complete traceability.

NUCLEAR PHARMACEUTICAL AGRIFOOD HOSPITAL RESEARCH

Isolators

Plastunion's flexible isolators fit comfortably in tight spaces within a controlled atmosphere. They can be connected to other containment devices and are interchangeable on new and existing installations.



They are available with or without structures and accessories.

- 1 • Flexible isolator:** it is a working enclosure with flexible and transparent walls, which offers a panoramic view of the working area. Ideal when protection against materials, sensitizers or chemical compounds is required, it provides respiratory and skin protection.
- 2 • Intervention glove box:** it is a multifunctional flexible wall insulator made of high quality engineered plastic films. Assembled in a few minutes, it can be used anywhere. Transportable and lightweight, it can meet many needs in the laboratory or on site, in the nuclear or medical fields.

Materials

CRYSTAL PVC

Our strengths

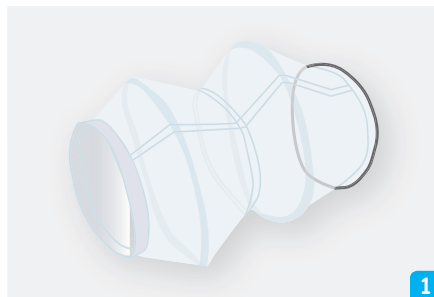
- + quick and easy implementation
- + flexibility in use and handling, compatible and adaptable to any installation
- + effective barrier against pollutants and contaminants
- + compatible with cleaning agents and surface decontamination



NUCLEAR PHARMACEUTICAL

Capes / Bellows

Capes and bellows are soft accessories used primarily on isolators to plug entrances or serve as a link between two containment units.



These soft accessories are made of quality engineered plastic sheets, calendered and crystal. Different types of plastic sheets can be used: crystal PVC (ep.0.3 to 0.48mm), white PVC (ep.0.5 to 0.75mm) and azure translucent PVC (ep.0.3 to 0.5mm).

- 1 • Connecting bellows:** variable number of teeth (on request).
- 2 • Capes.** There are four types of capes: cape without flange, cape without flange with seal, cape with flange, cape with flange and gasket. The cape with flange can be equipped with fixing eyelets. All capes can be equipped with soft or rigid accessories.

Materials

PVC CRYSTAL PVC

Our strengths

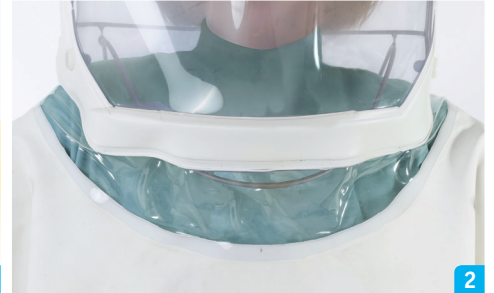
- + versatile accessories:
 - decontamination SAS entry / exit
 - round glove shutter
- + compatible with surface cleaning and decontamination agents



NUCLEAR PHARMACEUTICAL

Half-suits

The half-suit is the extension of the glove-sleeve concept applied to the upper body. This system offers a large area of operation that allows the user to have control of his/her movements.



All models are doubled for ventilation.

- 1 • **Interchangeable helmet:** good optical quality of the visor, 180 degree field of vision, prolonged use of the half suit.
- 2 • **Welded helmet:** two front and back visors (for production isolators), good optical quality of the visor, 180 degree field of vision.

OPTIONS

- Two sizes available (large and small)
- Simple fabric or PVC lined fabric
- Different colors

Materials

LIGHT FABRIC HEAVY FABRIC

Our strengths

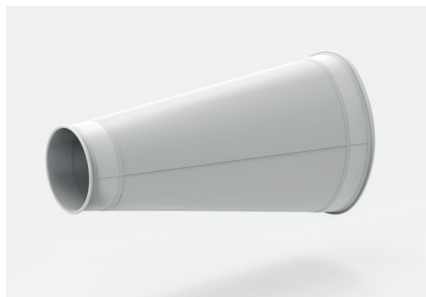
- + great flexibility in uses and manipulations
- + effective barrier against pollutants and contaminants
- + protection of operators, safety of preparations and installations
- + compatible with cleaning agents and surface decontamination



NUCLEAR PHARMACEUTICAL

Sleeves

The sleeve systems are key to the process of handling inside the isolator and offer the operator ideal ergonomics and freedom of movement.



The combination of a sleeve and glove can be replaced without compromising containment thanks to the "wrist ring with O-ring" connection interface. Our sleeves are available in different materials and sizes.

OPTIONS

- Two categories of materials: calendered PVC (translucent or transparent) and coated fabrics (different colors)
- Different shapes (straight conic, oblique conic or ovoid)
- Different sizes, lengths and diameters

Materials

LIGHT FABRIC HEAVY FABRIC PVC

Our strengths

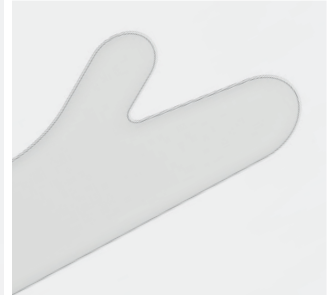
- + great flexibility
- + effective barrier against pollutants and contaminants
- + protection of operators, safety of preparations and installations
- + compatible with cleaning agents and surface decontamination



NUCLEAR PHARMACEUTICAL CONSTRUCTION

Intervention isolator / Bags and glove bags

This equipment is used in specific situations, such as, difficult maintenance on installations, sanitation sites and decommissioning (nuclear, maritime and fossil energy sectors).



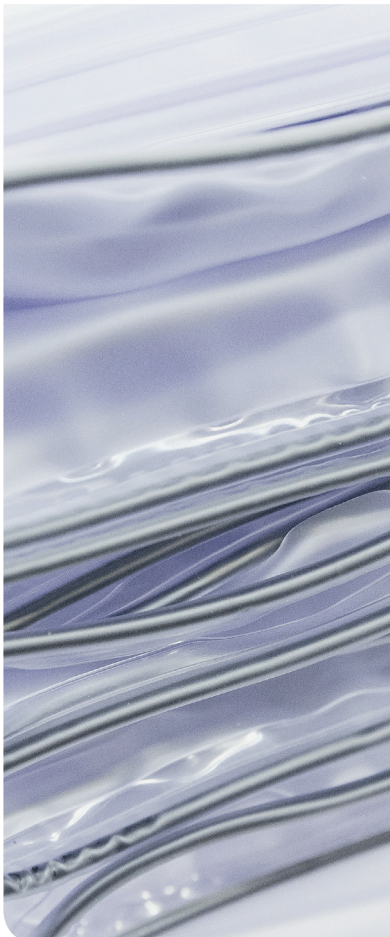
This equipment is designed through concepts and scenarios provided by our customers. The materials used are often high-performance noble materials (fluorinated polyvinyl, multilayer, polyurethane). They are compatible with technical parts and may be used as integral parts of the products (bellows, partitions penetrations, gloves, mittens, flanges, airlock, filters).

Materials

PVC CRYSTAL PVC PUR

Our strengths

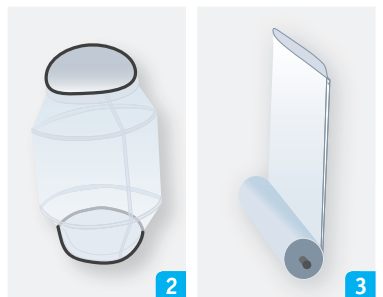
- + mastered and validated confection
- + compatible and adaptable to many solutions of depollution, asbestos removal and deconstruction
- + protection of operators, safety of preparations



NUCLEAR PHARMACEUTICAL

Bags / Tunnel sleeves / Sheath

Accessories that are flexible or weldable plastics. They can be used for the storage and transfer of materials and substances from a clean environment to a difficult one, or vice versa.



- 1 • Bags.** Plastunion offers a wide range of bags:
 - bags for analysis (sampling of gas and feces).
 - garbage bags.
 - transfer bags used for storing and transferring objects from one environment to another.
 - filter bags used to change and store contaminated filters.
- 2 • Tunnel sleeves** may have one or two O-rings.
- 3 • Sheath** serve as double protection. They are wound on a cardboard roll (70 mm inside diameter).

Materials

ALL KINDS OF PVC PUR

Our strengths

- + flexibility in use and manipulations, adaptable to all equipment
- + effective barrier against pollutants and contaminants
- + operator protection
- + environmental protection

Plastunion, a Piercan Group brand

Plastunion has the support of an international group: Piercan. Piercan is a French Company with 3 production centers divided between France and the United States, with distribution of its products in 62 countries. Piercan proves to be the world leader in glove box gloves.



Piercan USA • Factory
San Diego

USA



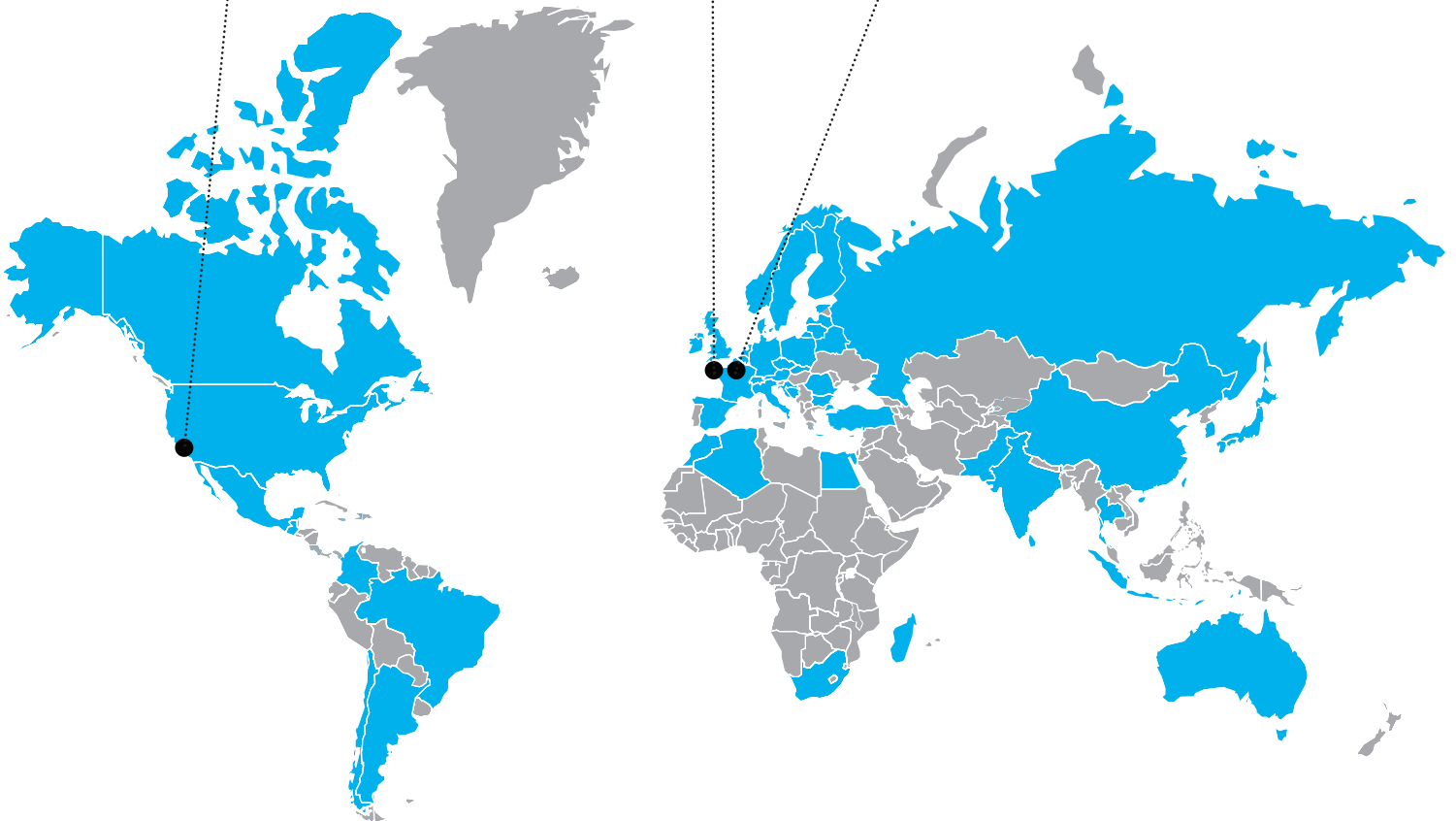
Piercan head office • Factory
Port-en-Bessin

France



Piercan Sales department • Plastunion factory
Bondy

France



■ Piercan products are sold in 62 countries



HAVE A QUESTION OR IN NEED OF SOME INFORMATION?

Do not hesitate to call us or write us an e-mail. Piercan is always ready to help you complete your projects...

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Specialist
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