

# Plastics Range\*

Flexible Plastic  
for **Inflexible** security

\*PVC - PUR - PeEBA - Coated fabrics





## Perfect Mastery of Plastic Manufacturing

PiercanTech (formerly Plastunion), a specialist in the design and manufacturing of sealed structures and custom accessories, makes its products from flexible plastic materials. Thanks to an original use of materials rigorously adapted to different situations, our products allow users to work in difficult environments, where the human presence is irreplaceable.



€25 M

Annual Revenues  
for Piercan Group



3

Manufacturing Facilities  
Normandy and Paris in France and  
San Diego in the USA



200

Employees  
in France and in the USA



81

Countries Buy  
Piercan products



**SPECIALIST**

in Flexible Plastic Manufacturing  
catalog or custom products



2700

referenced  
Products

**VARIOUS SECTORS  
OF ACTIVITY**

**5000**  
Listed customers

SECTOR 1  
**Pharmaceutical**  
industry

SECTOR 2  
**Nuclear**  
industry

SECTOR 3  
**Construction**  
industry

# Products **customized** 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, we offer 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.



## PRODUCT **CUSTOMIZATION**

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

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

## AN EXTENSIVE **CATALOG** OF PRODUCTS

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

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

## PIERCAN'S **HIGHLIGHTS**



Advice and support



Piercan design office



Large choice of materials



Prototypes and production series



Large stock of raw materials



## **ADVICE** AND **EXPERTISE**

Whether custom or catalog parts, we advise you on the development of your product line and its implementation within your production units.

We can also assist you with the expertise, development and qualification of 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. Where quality is at the core of all processes.

## DESIGN



- **Engineering Department:** Analyzes your requests and assists you in finding the most suitable solution. The engineering team 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 dimensions, 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



- **Cut**  
For cutting, we use circular blades and vibrating blade scissors.  
Semi-automatic cutting:
  - Cutting in mattress format
  - Cut to size
  - Unit cut to the shape



- **Welding**
  - Manufactured 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 assembly.
  - Powerful, extensive welder pool suitable for containment items.
  - Wide range of electrodes.



- **Properties**
  - Compatible with cleaning, decontamination and disinfecting agents.
  - Glovebox and isolator handling welds: strong, flexible, smooth and resilient.

## AVAILABLE MATERIALS



*Crystal or translucent flexible sheets*

### PVC [VINYL POLYCHLORIDE]

M1<sup>(1)</sup> pink quality / M2<sup>(1)</sup> 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/m<sup>2</sup>] - M2<sup>(1)</sup> QUALITY

Colors: blue / white / red / yellow

### HEAVY FABRIC [580g/m<sup>2</sup>] - M2<sup>(1)</sup> QUALITY

Colors: blue / white / yellow

## THREE-STAGE INSPECTION

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



- 1 • **Incoming inspection** of raw materials and tools along with a check of the 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



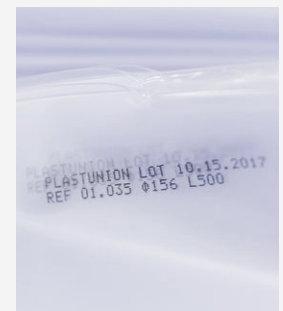
### Sealing control

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.

PHARMACEUTICAL HOSPITAL VETERINARY RESEARCH NUCLEAR FOOD INDUSTRY

## Isolators / Gloveboxes

*Piercan's flexible isolators and gloveboxes 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 glovebox made of high quality plastic films. Assembled in a few minutes, it can be used anywhere. Transportable and lightweight, it can meet many needs in the laboratory or in the field, in the nuclear or medical sectors.

### Materials

PVC CRYSTAL PVC PUR EBA/EVA

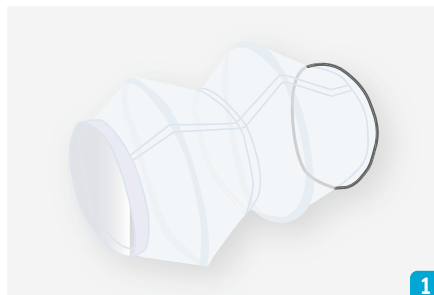
### Our strengths

- + 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

PHARMACEUTICAL HOSPITAL VETERINARY RESEARCH NUCLEAR FOOD INDUSTRY

## Caps / Bellows

*Caps 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 bellows (on request).
- 2 • **Caps:** There are four types of caps: cap without flange, cap without flange with seal, cap with flange, cap with flange and seal. The cap with flange can be equipped with fixing eyelets. All caps can be equipped with soft or rigid accessories.

### Materials

PVC PUR EBA/EVA

### Our strengths

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



PHARMACEUTICAL HOSPITAL VETERINARY RESEARCH

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

### OPTIONS

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

### Materials

- LIGHT FABRIC CALENDERED PVC
- HEAVY FABRIC CRYSTAL PVC

### Our strengths

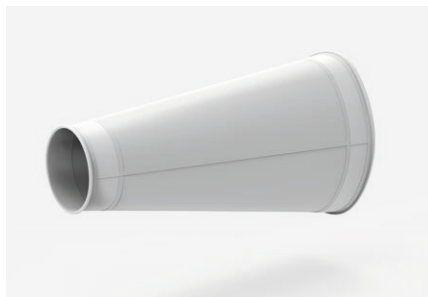
- + great flexibility in uses and manipulations
- + effective barrier against pollutants and contaminants
- + protection of operators, safety of preparations and installations
- + compatible with cleaning agents and surface decontamination



PHARMACEUTICAL HOSPITAL VETERINARY RESEARCH

## 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 "cuff ring and 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 CALENDERED 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



PHARMACEUTICAL HOSPITAL VETERINARY RESEARCH NUCLEAR FOOD INDUSTRY

## Bags and Glove Bags

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



This product 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 EBA/EVA

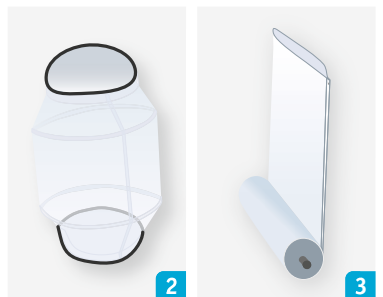
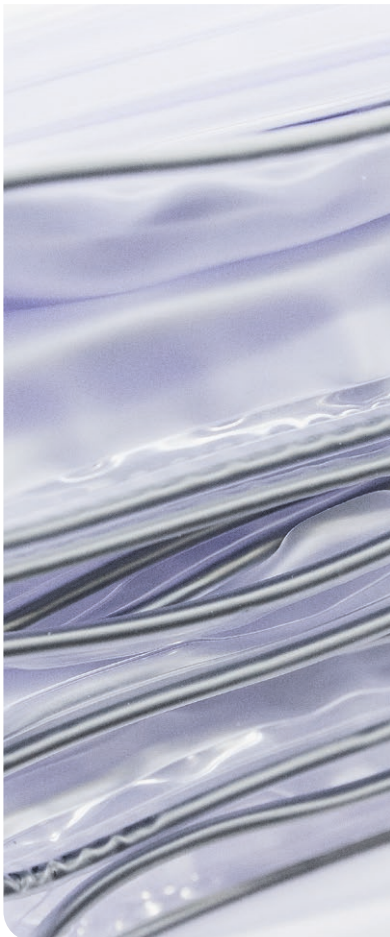
### Our strengths

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

PHARMACEUTICAL HOSPITAL VETERINARY RESEARCH NUCLEAR FOOD INDUSTRY

## Bags / Tunnels / Sheath

*Accessories manufactured from flexible and weldable plastics. They can be used for the storage and transfer of materials and substances from one environment to another.*



- 1• Bags:** 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• Tunnels** 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

PVC PUR EBA/EVA

### Our strengths

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

# Piercan around the world

PIERCAN is a French company and world's leading manufacturer of containment gloves. It has 3 manufacturing facilities across France and the United States and a product distribution network in 81 countries. PIERCAN is capable of fulfilling your requirements of technical parts, regardless of where you are located.



Piercan US Office • Factory  
**San Diego**

USA



Piercan Head Office • Factory  
**Normandy**

France

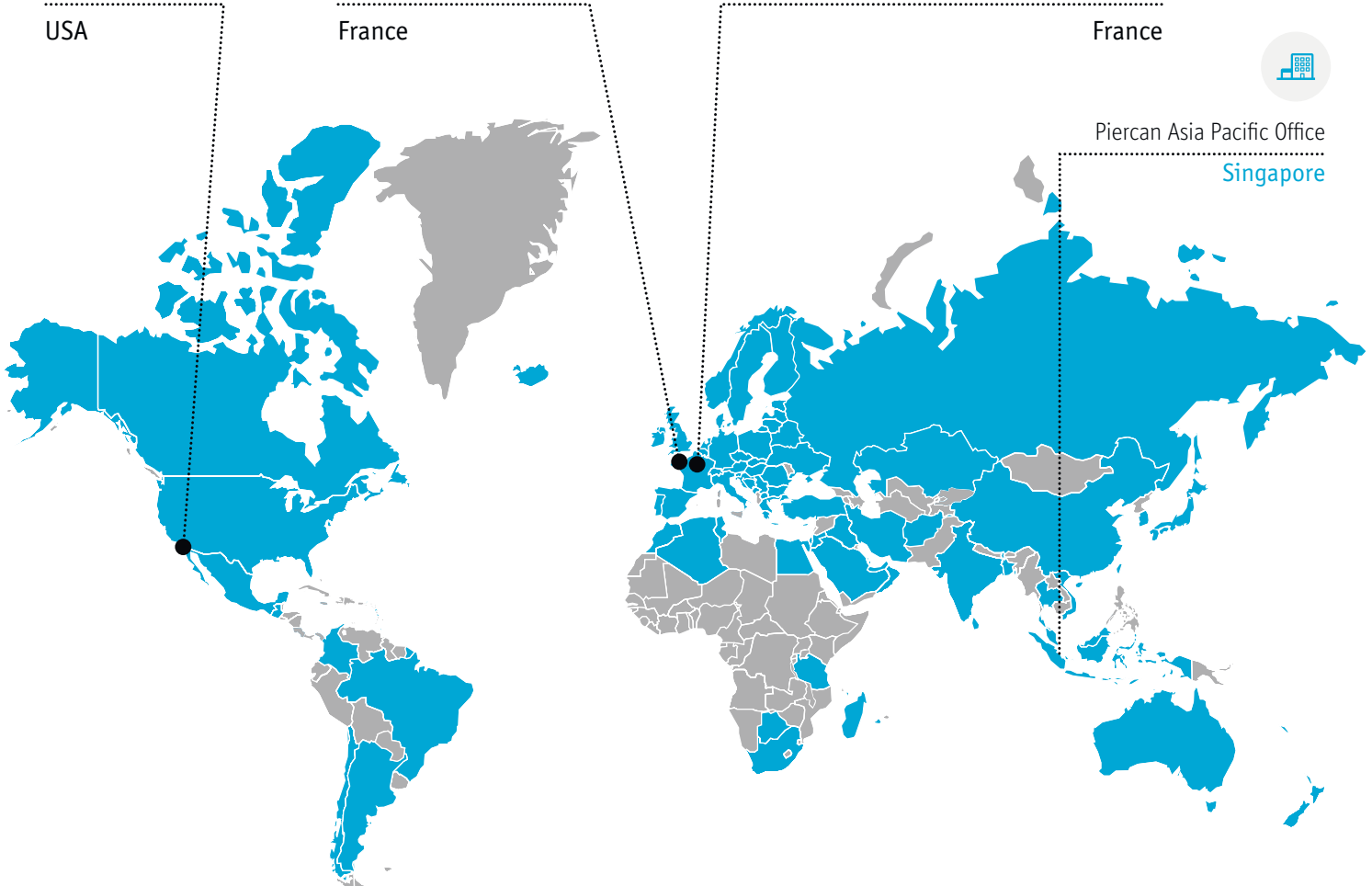



Piercan Commercial Management • Factory  
**Paris**

France



Piercan Asia Pacific Office  
**Singapore**




 Piercan products are sold in 81 countries.



## A QUESTION OR IN NEED OF INFORMATION?

Please do not hesitate to contact our sales team by phone or email.  
Piercan's services and products are only one call away:

 **Telephone** +33 (0)1 45 88 66 27 (FR)  
+1 (760) 599 4543 (USA)

 **E-mail** [piercan@piercan.com](mailto:piercan@piercan.com)



### PIERCAN FRANCE

17-23 Rue Marcel Dassault - ZAE Marcel Dassault  
93140 BONDY - FRANCE  
T +33 (0)1 45 88 66 27 - F +33 (0)1 45 80 98 30  
[piercan@piercan.com](mailto:piercan@piercan.com) | [www.piercan.com](http://www.piercan.com)

### PIERCAN USA, INC.

160 Bosstick Blvd  
92069 SAN MARCOS, CA - USA  
T +1 (760) 599 4543  
[piercan@piercan.com](mailto:piercan@piercan.com) | [www.piercan.com](http://www.piercan.com)

