

SABACAUCHO



URBAN

Moving cities



Moving Cities

Safer cities. With more personality.
That's how we imagine cities today. And those of tomorrow too.
We cannot overlook the unique personality and character that define towns. Above all, when addressing the public, when considering the well-being of people, safety is non-negotiable.

That is why we persist in advancing, committed to delivering the most innovative urban mobility products of the highest quality."

"KEEP INNOVATING. KEEP MOVING."

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About Us

Sabacaucho

The world never stops moving. Industries and cities evolve at the pace of change. With innovation as the main driving force and backed by our 45 years of experience, we at Sabacaucho feel that our project is sustainable, adaptable, ambitious and potent. Our passion for and experience in elastomers pushes us to keep improving all the time.



Industrial and urban mobility projects and challenges



A workforce of over **50 skilled workers.**



Continuing training to enable ongoing development.



A global company with customers all around the world.



Half our production is **exported** to five continents



Main site covering over **3,000 m².**



Over 40 years of spotting opportunities and **innovating** in processes and materials.

All the bollards Sabacaucho sells are manufactured in our facilities in Castellar del Vallès (Barcelona, Spain).

The concept of innovation based on experience is very much part of our DNA, an idea we promote across departments, products, processes and management. We endeavour to anticipate the needs of our customers, innovate together, and offer them leading-edge, efficient solutions.

Customization

Quality

Environment



We are manufacturers and our company is made up of four divisions:

S-URBAN DIVISION

S-Urban is a line of production fully dedicated to producing traditional bollards and flexible bollards with shape memory. Using a proprietary patented formulation, X-LAST® material, S-Urban manufactures a very high-end product with great strength and durability.



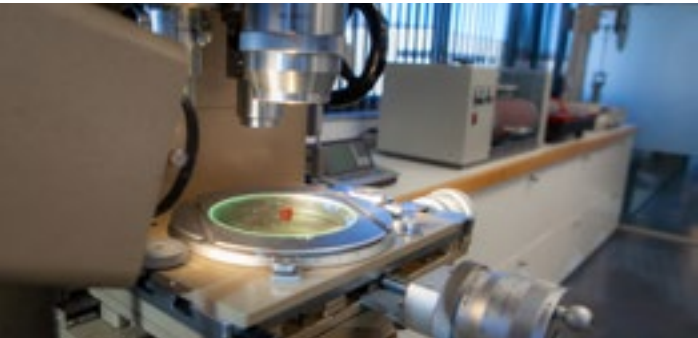
S-INDUSTRY DIVISION

Sabacaucho S-Industry offers the industry bespoke solutions with a wide variety of elastomers, developing the formulations in-house, in our own laboratory. We model the parts in moulds machined and adjusted internally, in a variety of metals or resins. We finish parts to our customer's specific needs.



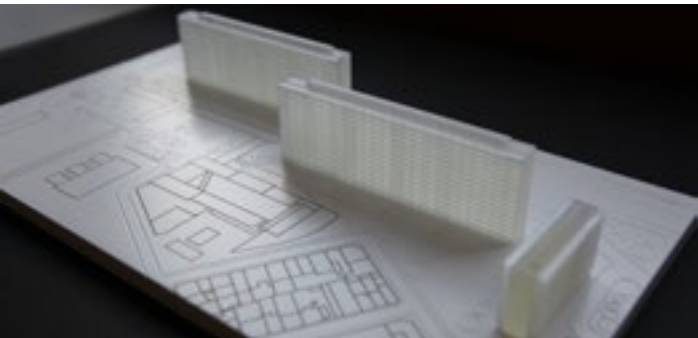
S-TECH DIVISION

S-Tech is a centre for research in the field of elastomers, while also offering specialized production of parts. This combination means we can complete the entire project, from formulation to finished part, while fully meeting the specific technical requirements the customer sets.



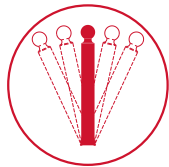
2D3 SOLUTIONS DIVISION

3D PRINTING AND LASER CUTTING
This new Sabacaucho area, incorporated into the Industry division, has two well-defined areas.
- Laser cutting and marking in polymers, textiles, wood and methacrylate, among others.
- Design and production of moulds, prototypes and 3D parts.
2D3 Solutions' staff are creative specialists, enabling us to develop perfect synergy with our Industry division and the end customer



The value of X-**LAST**®

S-Urban produces and markets bollards of **I-BOLLARD** model, which can be found throughout the world. X-**LAST**® now combines the appropriate balance of rigidity and flexibility to achieve the best strength and safety, becoming the safest, most durable shape memory material produced so nto.



FLEXIBILITY

Its flexibility makes it virtually unbreakable, as well as providing a plus for safety.



RIGIDITY

Its rigidity makes it perfectly suited to the function of preventing vehicles from passing into delimited areas.



SAFETY

A blow to the head against an **I-BOLLARD** causes 10 times less damage than with an iron bollard*.



RESILIENCE

After being hit, it returns to its original shape and position, thanks to the perfect combination of flexibility and strength.



CERTIFICATE

All **I-BOLLARD** have their **CE** certificate, guaranteeing that our products meet the legal and technical requirements established by the EU.

*HIC (Head Injury Criterion): tests carried out at the Instituto de Investigación Aplicada del Automóvil (IDIADA Automotive Technology) at a speed of 40 km/h.



Model bollards I-**BOLLARD**

(Safe Moving

DO NOT PASS!

The rigidity of X-**LAST**® bollards is graduated to prevent vehicles from entering the area they protect, both in case of accident and due to deliberate trespassing.

STRAIGHT UP!

X-**LAST**® material is highly resistant to shocks. It withstands repeated vehicle crashes and returns to its original shape after impacts.

NOTHING SERIOUS!

It prevents serious damage in case of accidents. It has an HIC of 460, less than half the value considered irreversible damage (1,000) and 10 times lower than the result obtained with a cast iron bollard.

EMERGENCY FRIENDLY

Every second counts in case of emergency. An **I-BOLLARD** is no obstacle for a fire engine or ambulance, as they can pass over it with no need remove it.



(Eco Moving

X-**LAST**® material offers enhanced weather resistance. This ensures virtually unlimited duration for **I-BOLLARD**.



X-last®
Material



Better weather
resistance



Longer life
cycle



Lower
maintenance



Almost unlimited
duration

What does this mean in practice?

Lower economic impact for you and lower environmental impact for everyone.

Versatile innovation

X-LAST® SPECIAL

The evolution of the **X-LAST®** material has not stopped since its launch in 2010, and there have been several versions of its formulation, providing attributes suited to differing needs for mobility. We are talking about the special **SOFT**, **HARD** and **EXTREME** formulations.

X-LAST® HARD

This is the most rigid material formulation in the series. Maintaining the balance between rigidity and flexibility that defines the **X-LAST®** material, its rigidity in this formulation is specially designed to hold back vehicles. It then prevents knocks in areas susceptible to impacts, such as business interiors, which can cause serious damage both to structures (shelving, machinery, furniture, etc.) and to people passing through the areas in question.



AVAILABLE with **X-last®** range models: **BALIZA REF D150** and **BALIZA SIGN D150**.

X-LAST® SOFT

This is the softest material formulation in the series. This formulation has high flexibility to let the bollard bend easily to allow emergency vehicle access. Thanks to its strength, it recovers its original shape after being deformed. For example, a fire engine can pass over them without the need to pull up the bollards in an emergency.



AVAILABLE with all models in the **X-last®** range, and all dimensions and anchorages.

X-LAST® EXTREME

This is the line that best withstands extreme environmental conditions in the series of materials. This material is specially designed to cope with extreme weather situations, both cold and hot, while maintaining the benefits provided by the material's strength and flexibility properties.



AVAILABLE with all models in the **X-last®** range, and all dimensions and anchorages.

The green bollard

X-LAST® Eco



(SUSTAINABLE

We reformulate excellence to progress towards a sustainable future.

At Sabacaucho we are committed to the environment and we strive daily to defend it by applying specific measures to production processes such as cutting CO₂ emissions or lowering the rate of waste per hour of work. Sustainability is one of the company's main cross-cutting commitments.

Through extensive tests carried out in our laboratory, we have managed to obtain functional properties very similar to those of **X-LAST®** material without sacrificing any of its benefits while reducing consumption of petroleum-based materials.

With **X-LAST® ECO** bollards in cities, we will all be contributing to curbing climate change and curtailing CO₂ emissions.

The green, safe bollard, in any of the I-BOLLARD range designs, colours and finishes

Our response to the challenges in urban mobility

(Design

We are manufacturers. We control the entire manufacturing and finishing process. This means we can create a completely bespoke **I-BOLLARD** and even customise it. We can add a company logo, the city's crest, special finishes such as wood, rustic, metallic, etc. and colours very similar to those of the RAL range. We can also create an entirely new and unique bollard.

Our range of products has designs that adapt to all environments: urban, rural, industrial, cycle lanes, highways, signage points, etc.

We have bollards with elegant designs and classic styles, such as the **Class** and **Krola** models, which can be integrated with ease into any urban area.

Others have more traditional, simple and sober styles. They support the personality of cities and offer the best limitation solutions. We are talking about the **Gorge**, **Boule** and **Gola** models, for example.

Bollards with designs specifically for cities, developed by our technical department, such as the **Manchester**, **Nuvo** and **Champs Elysées** models, among others.

Our **Baliza** signage models, with a variety of heights and diameters, including with round or square signs, allow for simple, effective delimiting and signalling solutions. Their design is clean and dynamic, offering the optimum level of safety in any situation.

Innovation and Sabacaucho are synonymous, so we have integrated a variety of features into our designs, such as the **Kuay** model with the inclined top that can present easily readable information, the **Babyk Pro**, to which you can lock a bicycle thanks to its vertical gap, or the O-Bus, a tall marker post.

I-BOLLARD

The only bollards with X-LAST® material



Products

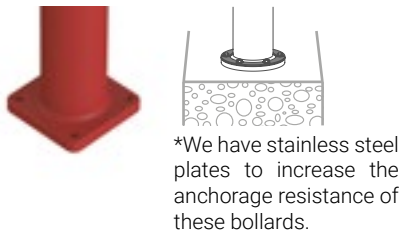
I-BOLLARD

Fixings

Our bollards have different fixing modes, adapted to offer the best solution in each case.

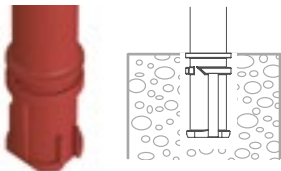
Flat base

The bollard is secured to the ground using screws with metal or chemical screw anchors*.



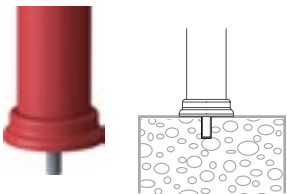
Formwork base

The bollard is installed directly in the concrete.



One Hole base

The bollard is installed directly in the concrete, retained by a screw and chemical anchor.

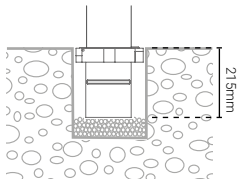


Removable formwork base

This system of formwork bases makes **I-BOLLARD** removable. So you can fit and remove it as needed. This makes it ideal for areas that need to be restricted most of the time, but which sometimes need to be opened to vehicles, or vice versa.

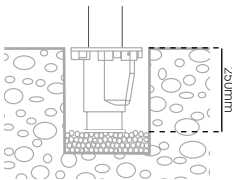
But does it leave a hole in the ground? The answer is no. The cover shrouds the mechanism automatically to prevent dirt from entering or anyone from tripping

D100 TX Base



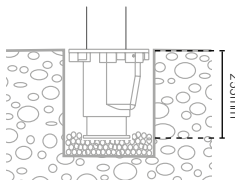
Base for removable D100 bollard with external cover.

D80 Base



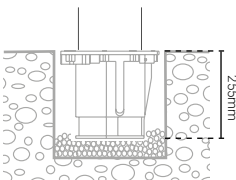
Base for removable D80 bollard with internal cover.

Base D100



Base for removable D100 bollard with internal cover.

D150 Base



Base for removable D150 bollard with internal cover.

Bollards

LookArt Diamond

Height - 900 mm Diameter - 150 mm



- Fixing:
- Flat Base
 - Formwork Base
 - D150 Removable Base

LookArt Diamond REF

Height - 900 mm Diameter - 150 mm



- Fixing:
- Flat Base
 - Formwork Base
 - D150 Removable Base

Gorge D100

Height - 800 mm Diameter - 100 mm



- Height - 900 mm
- Height - 1050 mm
- Height - 1200 mm
- Fixing:
- Flat Base
 - Formwork Base
 - D100 Removable Base
 - TX Removable Base
 - One Hole Base

Gorge D80

Height - 800 mm Diameter - 80 mm



- Height - 900 mm
- Height - 1050 mm
- Height - 1100 mm
- Height - 1200 mm
- Fixing:
- Flat Base
 - Formwork Base
 - D80 Removable Base
 - One Hole Base

Boule D100

Height - 800 mm Diameter - 100 mm



- Height - 900 mm
- Height - 1050 mm
- Height - 1200 mm
- Fixing:
- Flat Base
 - Formwork Base
 - D100 Removable Base
 - TX Removable Base
 - One Hole Base

Boule D80

Height - 800 mm Diameter - 80 mm



- Height - 900 mm
- Height - 1050 mm
- Height - 1100 mm
- Height - 1200 mm
- Fixing:
- Formwork Base
 - D80 Removable Base
 - One Hole Base

Gola

Height - 800 mm Diameter - 100 mm



- Fixing:
- Flat Base
 - Formwork Base
 - D100 Removable Base
 - TX Removable Base
 - One Hole Base

Gola REF

Height - 800 mm Diameter - 100 mm



- Fixing:
- Flat Base
 - Formwork Base
 - D100 Removable Base
 - TX Removable Base
 - One Hole Base

Nuvo

Height - 1000 mm Diameter - 150 mm




- Fixing:
- Flat Base
 - Formwork Base
 - D150 Removable Base

Nuvo REF

Height - 1000 mm Diameter - 150 mm



- Fixing:
- Flat Base
 - Formwork Base
 - D150 Removable Base



Height - 800 mm

Diameter - 80 mm

Height - 900 mm

Fixing:


- Formwork Base
- D80 Removable Base
- One Hole Base

Height - 1000 mm

Height - 1100 mm

Height - 1200 mm

Baliza D80



Height - 660 mm

Diameter - 100 mm

Height - 770 mm

Fixing:


- Flat Base
- Formwork Base
- D100 Removable Base
- TX Removable Base
- One Hole Base

Height - 900 mm

Height - 1050 mm

Height - 1200 mm

Baliza D100



Height - 800 mm

Diameter - 80 mm

Height - 900 mm

Fixing:


- Formwork Base
- D80 Removable Base
- One Hole Base

Height - 1000 mm

Height - 1100 mm

Height - 1200 mm

Baliza REF D80



Height - 660 mm

Diameter - 100 mm

Height - 770 mm

Fixing:


- Flat Base
- Formwork Base
- D100 Removable Base
- TX Removable Base
- One Hole Base

Height - 900 mm

Height - 1050 mm

Height - 1200 mm

Baliza REF D100



Height - 550 mm*

Diameter - 150 mm

Height - 800 mm**


Fixing:

- Flat Base
- Formwork Base
- D150 Removable Base

* 3 Reflective bands

** 4 Reflective bands

Baliza REF D150



Height - 550 mm


Diameter - 150 mm

Height - 800 mm

Fixing:

- Flat Base
- Formwork Base
- D150 Removable Base

Baliza D150



Height - 1050 mm*

Diameter - 150 mm

Height - 1300 mm**

Fixing:


- Flat Base
- Formwork Base
- D150 Removable Base

Height - 1410 mm**

* 3 Reflective bands

** 4 Reflective bands

Baliza SIGN D400



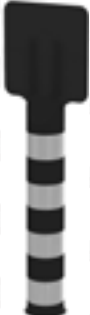
Height - 1500 mm

Diameter - 150mm

Fixing:

- Formwork Base
- D150 Removable Base

Baliza SIGN D600



Height - 1000 mm*

Diameter - 150 mm

Height - 1250 mm**


Fixing:

- Flat Base
- Formwork Base
- D150 Removable Base

* 3 Reflective bands

** 4 Reflective bands

Baliza SIGN 350X350



Height - 575 mm*

Diameter - 150 mm

Fixing:

- Flat Base
- Formwork Base
- D150 Removable Base

* 1 Reflective band

Baliza SIGN 350X350



Height - 1030 mm

Diameter - 150 mm

Fixing:

- Flat Base
- Formwork Base
- D150 Removable Base

Nuvo SIGN



Height - 900 mm

Diameter - 100 mm

Fixing:

- Flat Base
- Formwork Base
- D100 Removable Base
- TX Removable Base
- One Hole Base

Babyk Pro



Height - 1000 mm

Diameter - 80 mm

Fixing:

- Flat Base
- Formwork Base
- D80 Removable Base
- One Hole Base

Pencil



Height - 435 mm

Diameter - 245 mm

Height - 575 mm

Fixing:

- Formwork Base

Ret



Height - 800 mm

Diameter - 150 mm

Fixing:

- Flat Base
- Formwork Base
- D150 Removable Base

Kreta



Height - 1000 mm

Diameter - 100 mm

Fixing:

- Flat Base
- Formwork Base
- D100 Removable Base
- TX Removable Base
- One Hole Base

Kuay



Height - 900 mm

Diameter - 100 mm

Fixing:

- Flat Base
- Formwork Base
- D100 Removable Base
- TX Removable Base
- One Hole Base

Babyk



Height - 1400 mm

Diameter - 150 mm

Fixing:

- Flat Base
- Formwork Base
- D150 Removable Base

> Possibility of fitting 2 or 4 reflective bands.

O-Bus



Height - 950 mm

Diameter - 80 mm

Height - 1100 mm

Fixing:

- Formwork Base
- D80 Removable Base
- One Hole Base

Champs Elysées



Height - 970 mm

Diameter - 150 mm

Fixing:

- Flat Base
- Formwork Base
- D150 Removable Base

Krola



Class

Height - 900 mm

Diameter - 150 mm

Fixing:

- Flat Base
- Formwork Base
- D150 Removable Base



Nantes

Height - 1000 mm

Diámetro - 90 mm

Fixing:

- Formwork Base



Manchester

Height - 1005 mm

Diameter - 150 mm

Fixing:

- Flat Base
- Formwork Base
- D150 Removable Base



Edinburgh

Height - 1100 mm

Diameter - 150 mm

Fixing:

- Flat Base
- Formwork Base
- D150 Removable Base
- One Hole Base



Wat

Height - 980 mm

Diameter - 90 mm

Fixing:

- Formwork Base



Got

Height - 800 mm

Diameter - 90 mm

Height - 900 mm

Height - 1000 mm

Height - 1200 mm

Fixing:

- Formwork Base



Baliza D150 Sign

📍 Suisse



Kreta

📍 Hiroshima



Gola Ref

📍 Valencia



Gorge D80

📍 Martinica



Babyk Pro

📍 Lithuania



LookArt LumArt

📍 Pont de Vilomara



Class

📍 Reus



Gorge

📍 Quebec



Manchester

📍 Londres



Nuvo Sign

📍 Cardiff



O-Bus

📍 Sant Cugat del Vallès



Boule

📍 Paris

Choosing an X-LAST® bollard means choosing your city's **PERSONALITY**.

Located in Castellar del Vallès (Barcelona, Spain), Sabacaucho is the manufacturing base for all our products, which are distributed globally. **X-LAST®** bollards and bases are installed on five continents and are spread widely throughout the international landscape.

(RET System

RET is Sabacaucho Urban's retractable **I-BOLLARD**.

Its easy-to-use key activation system means you can temporarily prevent vehicles entering restricted areas.

Like all **I-BOLLARD**, it provides all the advantages and benefits of being made with **X-LAST®** material.

If it gets hit, it still works perfectly when it returns to its original shape.

Big savings on maintenance!

It also avoids traffic blockages on the street, because the bollard does not deform and create blockages in case of impact.



Strong and flexible

It recovers its original position after being hit, avoiding blocking the street.

Rigidity

It fulfils its function by temporarily preventing vehicles from entering restricted areas.

Savings

Reduces maintenance costs.

Easy to use

Thanks to its key activation system.



Height - 435 mm	Diameter - 245 mm	Base - 350x350 mm
Height - 575 mm	Diameter - 245 mm	Base - 350x350 mm



LumArt

LumArt, bollards with built-in light, are a benchmark for safety and design for any smart city.

Thanks to the LED light base, LumArt illuminates the entire bollard surface uniformly, without degradation. The ideal **I-BOLLARD** For places with low visibility. It improves mobility at night and lights streets for pedestrians, who see them as safer and more modern.

Aiding in correct signposting of parks, cycle tracks, gardens and making it visible from afar for vehicles and pedestrians. These bollards have the same strength and rigidity as the other **X-LAST®** bollards.

Available in all designs except 80 diameter bollards.

Available colours

- Signal Red
- Signal Orange
- Green Yellow
- Pearl White
- Signal Yellow
- Light Blue

We transform cities
Design, light and road safety

(LIGHTING THE CITIES

In our constant commitment to innovation and improving urban environments, we have added two new options to the LumArt product line, which transform the aesthetics and mobility of urban areas: **LumArt Custom** and **LumArt Synchro**.

LUMART CUSTOM

We have added a new LED system to the translucent LumArt **XLAST®** bollards, enabling them to change colour automatically, gradually or alternately, thanks to pre-programmed software. You can now light specific areas of public roads, monuments or emblematic buildings in the city in any colour.



LUMART SYNCHRO

Our bollards with red and green lights that synchronize with traffic lights. When traffic lights change colour, the bollards change their lighting too, providing a clear visual signal for both pedestrians and drivers. These increase visibility at junctions, reducing the risk of accidents and improving traffic flow.





D-BIKE

The patented design that helps prevent vehicles intruding onto cycle lanes.

(Safe Moving

D-BIKE WAVE is unique and exclusive to Sabacaucho. With its patented design, you won't find anything like it.

THE WAVE EFFECT

Its wave shape makes it difficult for vehicles to intrude into the cycle lane and helps eject them, thus protecting its users

MAXIMUM VISIBILITY

It has reflective areas on both sides, made with an elastic reflective paint produced by the company itself, which incorporates glass microspheres. This makes it highly visible to both cyclists and drivers.



(Eco Moving

As it is made from **X-LAST®** material, it can absorb high loads and recover its original shape. It is also highly weather resistant. It has a long life span.



X-last®
Material



Absorbs
high loads

+



Recovers
its original
shape

+



Better weather
resistance



Long useful life

If you are looking for a cycle lane separator with a lower economic and environmental impact, this is your best option.

We can manufacture **D-BIKE** in six colours



Deep black



Traffic sign green



Chocolate



Moss green

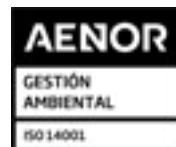


Maroon



Traffic sign red





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