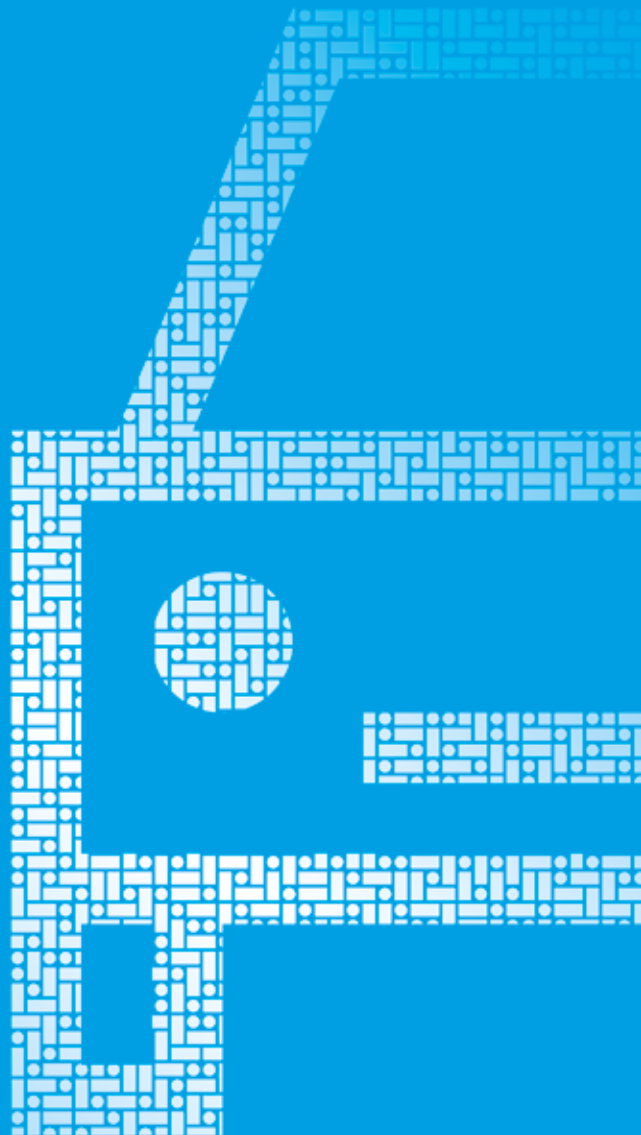
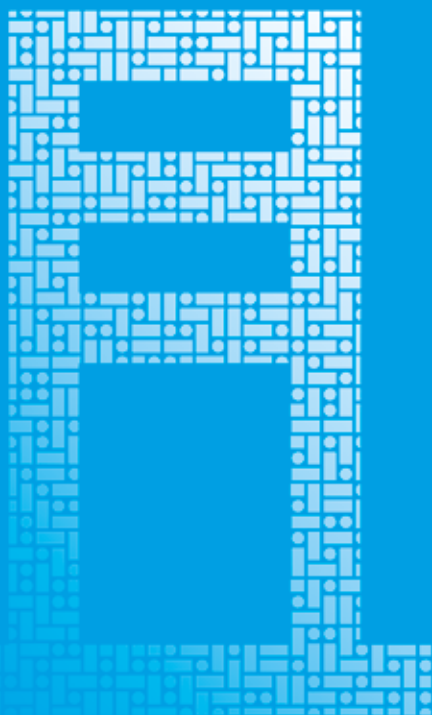


# VEHICLE ACCESS CONTROL COMMERCIAL, INDUSTRIAL & URBAN CATALOGUE

50<sup>TH</sup>  
ANNIVERSARY

Crash tested retractable bollards,  
supervision, centralized technical control.



**CAME**   
**URBACO**

[CAME.COM](http://CAME.COM)



LE LOUIS OLD N. UCCS



# **CAME URBACO** **URBAN SECURITY**

## **SAFE DEVICES**

**RETRACTABLE BOLLARDS**

**ROAD BLOCKERS**

## **SMART DEVICES**

**CONTROLLERS**

**CENTRALIZED TECHNICAL CONTROL**

## **PERIMETER SECURITY**

**FIXED BOLLARDS**

**REMOVABLE BOLLARDS**

**POSTS**

## **PROJECT SUPPORT**

**EXAMPLE OF A CONFIGURATION**

**REFERENCE**

**ORGANIZATION**

# WE'VE BEEN SPEAKING ABOUT QUALITY LIVING, IN ALL THE WORLD'S LANGUAGES, FOR 50 YEARS.

50<sup>TH</sup>  
ANNIVERSARY

CAME has catered to people's needs for 50 years by using technology as a key to a quality life. Every project drives our innovation and focus to make people's lives as comfortable as possible. CAME is a company where skills and experience come into play. Its know how blends functionality and design continuously improving performance.

You are sure that you can rely on professionals able to transform our innovations into solutions, to create customized automation proposals integrated with the best connectivity and mobility technologies. CAME and its partners, together, to satisfy its increasingly demanding and heterogeneous customers for their culture and needs, in order to transform living spaces into more intelligent and safe places.

**CAME** 

**CAME** † **BPT**

**CAME** † **URBACO**

**CAME** † **ÖZAK**

**CAME** † **GO**

**CAME** † **PARKARE**

**CAME** † **KMS**

**CAME** † **NEPOS**

**CAME** † **ENTROTEC**

## ALWAYS ONE-STEP-AHEAD

CAME is a market-leading brand that makes integrated automation solutions, video-entry, access control and parking systems for the public and private sectors.

The CAME Group boasts a series of highly specialized companies. Together they cover a large share of their market. The group delivers cutting-edge solutions for the residential, business and urban segments. Whether its home automation or heating control, road barriers and high-security bollards, or automatic doors and sectional industrial doors, CAME Group is a key player.

Today CAME is set on one, distinct corporate vision, which makes the organization a cutting-edge technological partner.

## RESIDENTIAL SOLUTIONS



We have gone on to develop an idea of home automation that is increasingly integrated and connected with people's lives. Today, automation is at the heart of the home, managing entrances and garage doors, controlling blinds and shutters, video entry systems and climate control.



## BUSINESS SOLUTIONS



For every public area, we offer the most sophisticated systems for pedestrian and vehicle access control and security, video entry systems and parking solutions. Small and large companies, commercial enterprises, large buildings: CAME-branded automation provide control and safety in both small and large working environments.

## URBAN SOLUTIONS



The complexity involved in living spaces and in mobility flows require ever greater protection and security, plus enhanced reactive capacity and greater know-how. Our offer is geared to meet the different automation needs for urban planning and architectural scenarios. CAME solutions are engineered for managing safety and control in large works and for contributing to the planning of urban spaces making them "Safe and Smart", as called for in today's fast-paced, metropolitan centres.



# THE CAME GROUP OFFER



## AUTOMATION SYSTEMS

- Gate automation systems
- Garage door automation systems
- Industrial locking automation systems



## AUTOMATIC BARRIERS

- Automatic barriers for parking lots and toll stations
- Automatic barriers for residential or industrial use



## PARKING SYSTEMS

- Off-street solutions
- On-street solutions



## BOLLARDS AND ROAD BLOCKERS (RETRACTABLE BOLLARDS)

- Traffic control bollards
- High security bollards and road blockers



## TURNSTILES AND SPEED GATES

- Turnstiles
- Speed gates
- Access control software





## **AUTOMATIC DOORS**

- Sliding and swinging doors



## **VIDEO INTERCOM SYSTEMS**

- Video intercom systems
- Intercom systems



## **HOME CONTROL SOLUTIONS**

- Temperature control devices
- Anti-intrusion systems
- Home automation systems



## **SOLUTIONS FOR BLINDS AND SHUTTERS**

- Automatic blinds and shutters
- Rolling shutter automation systems



## **SECTIONAL DOORS**

- Garage doors
- Industrial doors



# OUR WORLDWIDE NETWORK.

## We are a worldwide network.

From the Treviso head office, home to the group's thriving core, we coordinate 11 manufacturing plants and 10 R&D units. We have subsidiaries in 20 countries and, thanks to our commercial partner and distributors, we operate in 118 countries with an integrated and global vision.

We are the technology partner for those projects that require integrated systems for improving the quality of our living space – whether private or public. Our products are made for controlling homes, managing urban venues and workplaces, of any kind, anywhere in the world.

Our Group shares common goals, which go well beyond our respective specializations: thanks to the synergies that exist among all the divisions and brands, we share a modus operandi that enriches our diversity.

## BRANCHES AMERICA

Brazil  
Canada  
Mexico  
Perù  
USA

# 2000

OUR PEOPLE AROUND THE WORLD



## CAME HQ

Treviso, Italy

## BRANCHES EUROPE

Italy	Poland
Belgium	Portugal
Croatia	Russia
France	Spain
Germany	UK
Ireland	Turkey
Netherlands	

# 10

R&D CENTRES

# 20

COUNTRIES WITH DIRECT  
BRANCHES

# 118

COUNTRIES WITH PARTNERS  
AND DISTRIBUTORS

# 11

PRODUCTION PLANTS

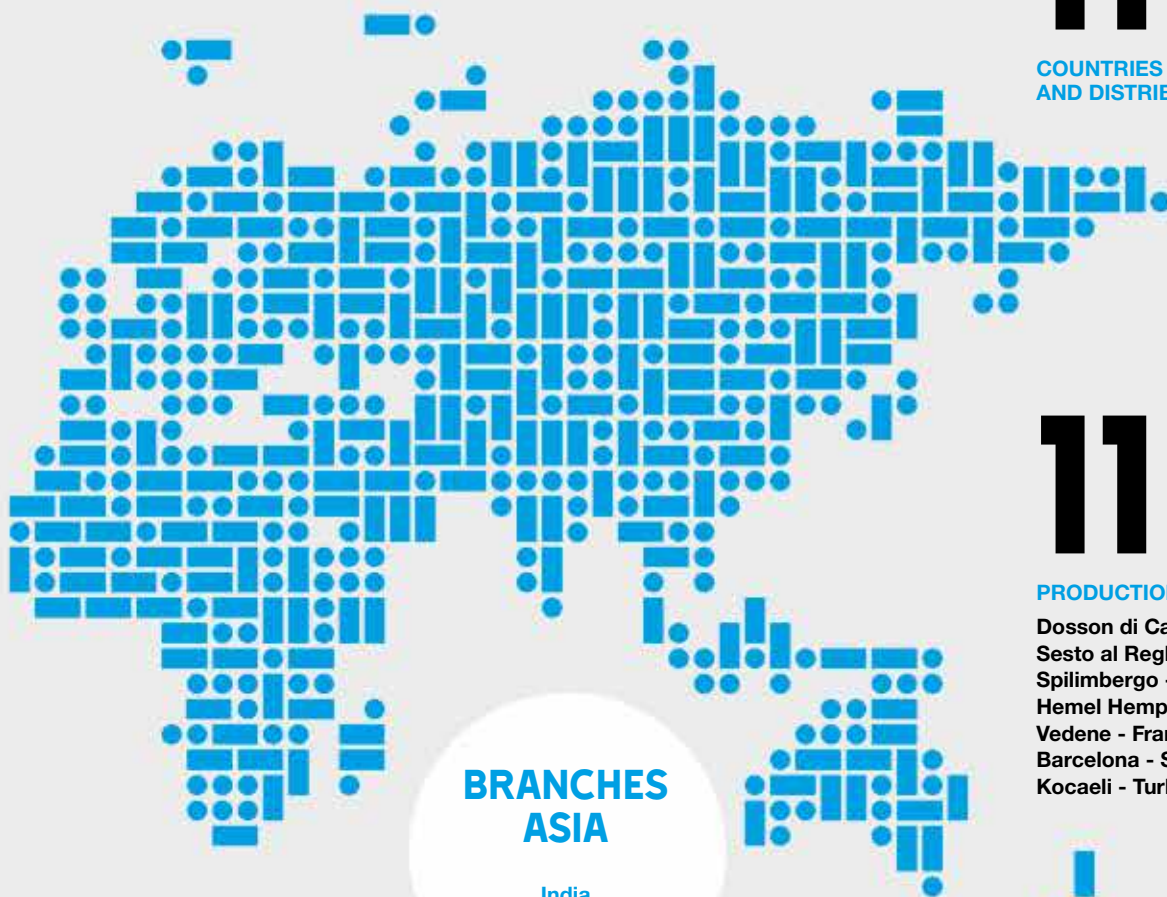
Dosson di Casier - Italy  
Sesto al Reghena - Italy  
Spilimbergo - Italy  
Hemel Hempstead - UK  
Vedene - France  
Barcelona - Spain  
Kocaeli - Turkey

## BRANCHES ASIA

India  
The UAE

# 480

WORLDWIDE DISTRIBUTORS  
AND PARTNERS



# VEHICULAR ACCESS CONTROL

## FIXED AND MOBILE BOLLARDS

For delimitation of traffic routes, parking facilities or areas where access to vehicles is prohibited

## AUTOMATIC BOLLARDS

For urban areas protection and vehicle flow regulation in both public and private areas

## MANAGEMENT AND CONTROL

An integrated system that allows centralized remote management of all accesses with retractable bollards



## HIGH-SECURITY BOLLARDS

For the protection of strategic access points and sensitive facilities against ramming vehicles

## ROAD BLOCKERS

The highest level of burglar-proof security, to prevent access by unauthorized vehicles






Discover the SMART & SAFE solutions at [came.com/urbaco](http://came.com/urbaco)  
Discover the full range on [came.com/ozak](http://came.com/ozak)

**CAME**  **URBACO**  
**CAME**  **ÖZAK**



# CAME URBACO

## PIONEERING, INNOVATIVE ACTIONS

-  The inventor of the retractable bollard
-  1st company in the world to design a centralized technical control system for pedestrian areas
-  1st French manufacturer of high security bollards certified according to the latest international standards
-  1st manufacturer in the world to have performed 2 crash tests on the same bollard
-  A multitude of custom-designed projects for installations around the world

**ORGANIZE AND REGULATE TRAFFIC**

- Secure sensitive areas to meet the challenges of protecting people and buildings
- Direct vehicle traffic flow to protect pedestrians
- Define public/private spaces between pedestrians and vehicles

**CONTROL ENTRANCES AND EXITS : PEDESTRIANIZATION**

- Regulate traffic and control the transit of vehicles
- Limit the risk of traffic accidents
- Reduce the level of congestion and pollution



**ACCESS MANAGEMENT SOLUTIONS:**

- Traffic flow control
- Pedestrianization of the city center
- Safety barriers



**CERTIFIED SECURITY OF INDUSTRIAL AND URBAN SPACES:**

Retractable, removable, fixed crash-tested bollards

- resistant to the impact of a 2.5 T pick-up truck at 48 km/h
- resistant to the impact of a 7.5 T truck traveling at 48 to 80 km/h

# CAME URBACO VEHICLE TRAFFIC FLOW CONTROL SOLUTIONS

As a provider of vehicle access control at all levels, CAME URBACO develops a global management system. Compatible with the various CAME solutions, it offers its technicality and adaptability to installations in industrial and urban environments.



#### MANAGEMENT SYSTEM:

- Access centralized control
- Open and scalable solutions, compatible with third-party hypervisors



#### MANAGEMENT OF ROAD BLOCKERS:

- Crash-tested road blockers
- resistant to the impact of a 7.5 T truck traveling at 80 km/h

# THE RANGE



**SAFE**

## RETRACTABLE BOLLARDS

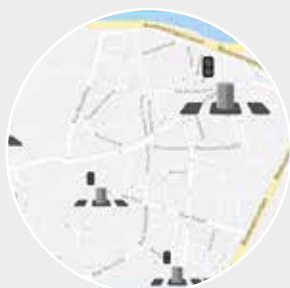
The retractable bollards retract automatically into the ground thanks to a remote control triggering the authorization of a vehicle to pass. They make it possible to regulate the flow of vehicles and to delimit and make pedestrian spaces safe. They can also be retracted [semi-automatically](#) or [manually](#).



**SMART**

## MANAGEMENT TOTEMS

Urban mobility, the totem is the interface with the user. It contains the control devices and the bollard control device: the control board which will communicate with the Sygma 4 supervisor or with an existing hypervisor, in the case of centralized technical control.



**SMART**

## SYGMA 4

SAAS (Software As A Service) Centralized Technical Control Software Package, it allows advanced user management, information feedback and a real-time overview of accesses. It centralizes the management of bollards, road blockers or even barriers.



**PERIMETER SECURITY**

## FIXED & REMOVABLE BOLLARDS

Fixed bollards mark the pedestrian lanes. Installed on the periphery of the retractable bollards, they restrict access and seal off the area around them. A [removable](#) allows not to block an access in a permanent way by releasing the lane punctually.

# DEVICES OF A TYPICAL ACCESS

Combining Safe & Smart solutions, CAME URBACO creates complete access control devices for retractable bollards thus testifying to the extent of the brand's know-how: Retractable bollards, Control totems, Supervision, Fixed and removable bollards.

The complementary designs of the different ranges blend in perfectly with each other and with the urban environment in a balanced way.



## SAFE & SMART SOLUTIONS



Cannes, France, ONE 40<sup>EVO</sup>, retractable and fixed bollards, Totem City 6<sup>EVO</sup>

# GENERAL INDEX AND LEGEND OF THE SYMBOLS



NEW PRODUCTS



CRASH-TESTED models according to the latest international standards



RESISTANCE to vehicle impact



Crash-test certified according to PAS68 and IWA14-1 standards on a 7.5/7.2 ton vehicle traveling at 80 km/h

*Each pictogram indicates the vehicle and the crash test speed, specific to the model.*



REMOTE HYDRAULIC drive



ON-BOARD HYDRAULIC drive



PNEUMATIC drive



Equivalent to the certified crash test on a range model according to PAS68 and IWA14-1 standards on a 7.5/7.2 ton vehicle traveling at 80 km/h

*Each pictogram indicates the vehicle and the crash test speed, specific to the model.*



Drive function optional EFO  
*Emergency Fast Operation*



Drive function optional BATTERY  
*Safety lift in case of power failure*



Drive function optional DRILL  
*Semi-automatic drilling action*

2	GENERAL INDEX AND LEGEND OF SYMBOLS
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## 42 AUTOMATIC ROAD BLOCKERS

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## 48 CONTROL BOX, CONTROL PENAL AND TOTEMS

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## 88 PROJECT SUPPORT | FEASIBILITY STUDY | REFERENCES

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### RESISTANCE OF CAME URBACO BOLLARDS CERTIFICATES

Type	Model	Test method	Results	Standard	kJ
<b>RETRACTABLE</b> 	G6N 550	Dynamic simulation performed by an approved laboratory	STOPS A VEHICLE OF 1,5 T traveling at 48 km/h	IWA 14-1:2013* V/1500[M1]/48/90	133*
	G6N 750	Dynamic simulation performed by an approved laboratory	STOPS A VEHICLE OF 2,5 T traveling at 48 km/h	IWA 14-1:2013* V/2500[N1G]/48/90	238*
	G30	Crash test achieved in physics	STOPS A VEHICLE OF 2,5 T traveling at 48 km/h	IWA 14-1:2013 V/2500[N1G]/48/90:0,6 PAS68:2013 V/2500[N1G]/48/90:0,4/0,0	238
	ONE 30 <sup>EVO</sup>	Crash test achieved in physics	STOPS A VEHICLE OF 7,5 T traveling at 48 km/h	IWA 14-1:2013 V/7200[-N2A]/48/90:0,0 PAS68:2013 V/7500[N2]/48/90:0,0/0,0	681.2
	ONE 40 <sup>EVO</sup>	Crash test achieved in physics	STOPS A VEHICLE OF 7,5 T traveling at 64 km/h	IWA 14-1:2013 V/7200[-N2A]/64/90:2,6 PAS68:2013 V/7500[N2]/64/90:2,4/15,5	1290
<b>FIXED</b> 	ONE 50 <sup>EVO</sup>	Crash test achieved in physics	STOP OF 2 VEHICLES OF 7.5 T consecutively traveling at 80 km/h	CRASH-No.1: IWA 14-1:2013 V/7200[N3C]/80/90:4,2 PAS68:2013 V/7500[N3]/80/90:3,9/22,7 CRASH-No.2: IWA 14-1:2013 V/7200[-N2A]/80/90:2,9	1776 1765
	G30	Dynamic simulation performed by an approved laboratory	STOPS A VEHICLE OF 2,5 T traveling at 48 km/h	PAS68:2013* V/2500(N1G)/48/90	238*
	ONE 30 <sup>EVO</sup>	Dynamic simulation performed by an approved laboratory	STOPS A VEHICLE OF 7,5 T traveling at 48 km/h	IWA 14-1:2013* V/7200[N2A]/48/90 PAS68:2013* V/7500[N2]/48/90	681.2*
	ONE 40 <sup>EVO</sup>	Dynamic simulation performed by an approved laboratory	STOPS A VEHICLE OF 7,5 T traveling at 64 km/h	IWA 14-1:2013* V/7200[N2A]/64/90 PAS68:2013* V/7500[N2]/64/90	1138* IWA 1185* PAS
	ONE 50 <sup>EVO</sup>	Crash test achieved in physics	STOPS A VEHICLE OF 7,5 T traveling at 80 km/h	IWA 14-1:2013 V/7200[N3C]/80/90:5,9 PAS68:2013 V/7500[N3]/80/90:5,6/27,2	1763.2
<b>REMOVABLE</b> 	ONE 30 <sup>EVO</sup>	Equivalent to crash tests carried out on the retractable bollard	STOPS A VEHICLE OF 7,5 T traveling at 48 km/h	IWA 14-1:2013* V/7200[N2A]/48/90 PAS68:2013* V/7500[N2]/48/90	681.2*
	ONE 40 <sup>EVO</sup>	Equivalent to crash tests carried out on the retractable bollard	STOPS A VEHICLE OF 7,5 T traveling at 64 km/h	IWA 14-1:2013* V/7200[N2A]/64/90 PAS68:2013* V/7500[N2]/64/90	1138*
	ONE 50 <sup>EVO</sup>	Equivalent to crash tests carried out on the retractable bollard	STOPS A VEHICLE OF 7,5 T traveling at 80 km/h	IWA 14-1:2013* V/7200[N3A]/80/90 PAS68:2013* V/7500[N3]/80/90	1778* IWA 1852* PAS

# SAFETY CERTIFICATIONS & INTERPRETATIONS

Aware of the **security issues** to which CAME URBACO solutions respond, the brand has chosen the **most recent** and **most demanding** versions of the standards at the international level to carry out the crash tests of its high security bollards.



Each certified crash test can be interpreted using the following line:

**BOLLARD V / 7200 [N3C] / 80 / 90 : 4,2**

**BOLLARD** = TYPE OF "BOLLARD" PRODUCT

**V** = TYPE OF TEST "VEHICLE"

**7200** = WEIGHT OF THE VEHICLE (KG)

**N3C** = TYPE OF VEHICLE

**80** = IMPACT SPEED (KM/H)







**90** = IMPACT ANGLE (°)

**4,2** = VEHICLE PENETRATION (METERS)

## INTERPRETATION TIPS

To provide you with all the information from the crash tests carried out, CAME URBACO provides a simple and transparent interpretation.

To assess the security level of the bollards on the market, it is necessary to pay attention to the following points:

-  Post-impact penetration: must not exceed a dozen meters
-  Post-impact access safety: the ONE<sup>EVO</sup> bollards always ensure safe access after impact
-  Data of the crash test methods: CAME URBACO has certified its bollards with the latest international standards
-  The certifying laboratories: the selected laboratories are accredited and have a worldwide reputation
-  The conditions of the crash test, by viewing it: the weight in the truck must not be ejected, it represents 50% of the energy for a N2A type truck
-  The number of installed bollards: During our crash tests, the impact is always made on a single bollard





# SAFE DEVICES

The **CAME URBACO** retractable bollards are integrated into the core of vehicle flow management solutions. Complementary ranges make it possible to respond to all urban issues depending on the location and the level of security required.

They delimit urban, industrial or commercial areas and are associated with a smart system to ensure access control and site security.

# RETRACTABLE BOLLARDS

The retractable bollards retract into the ground thanks to a remote control triggering the authorization of a vehicle to pass.

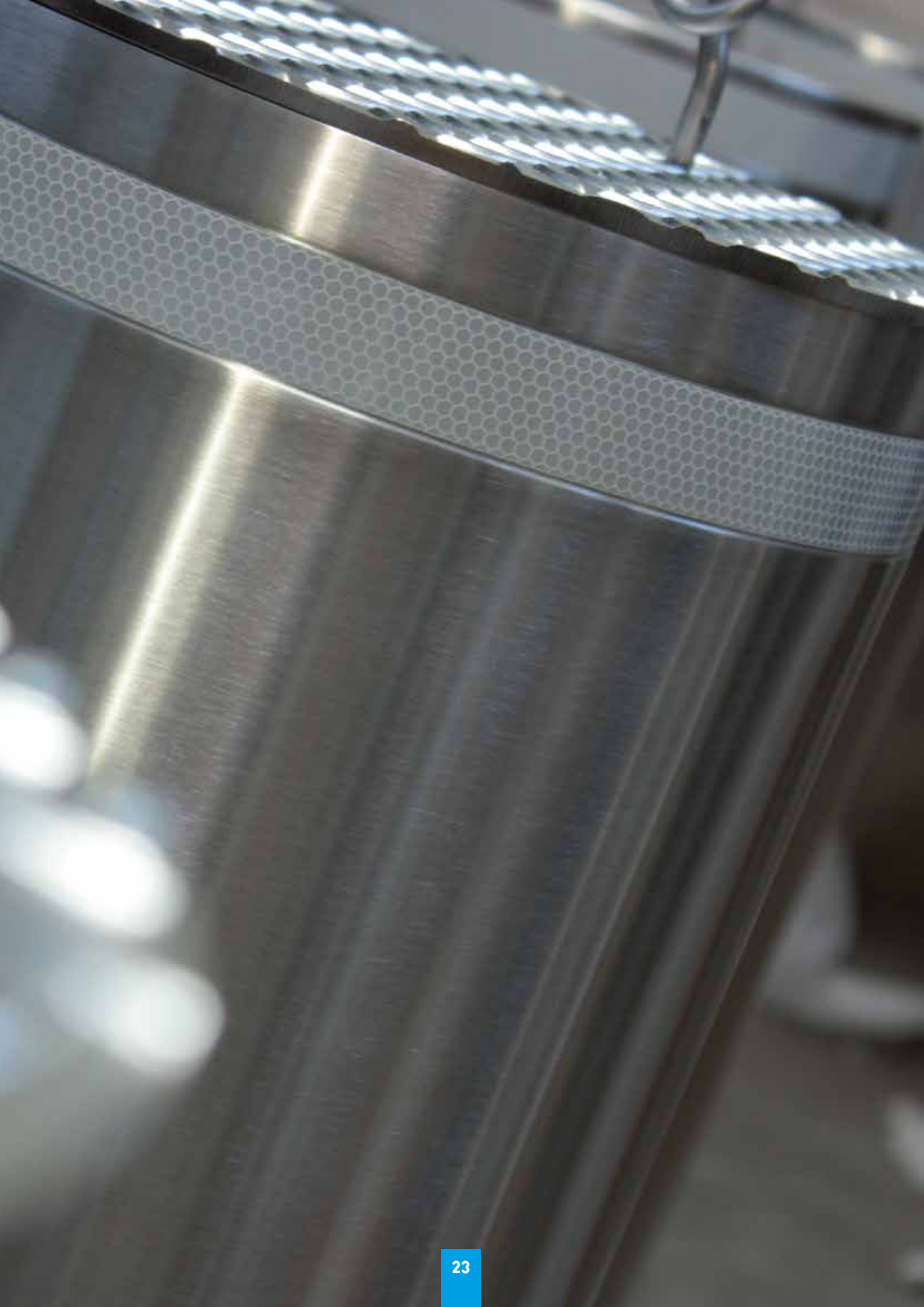
**G6N** RETRACTABLE BOLLARD

**G30** RETRACTABLE BOLLARD



**ONE 30<sup>EVO</sup>** RETRACTABLE BOLLARD

**ONE 40<sup>EVO</sup>** RETRACTABLE BOLLARD

**ONE 50<sup>EVO</sup>** RETRACTABLE BOLLARD







**FEATURES AND OPTIONS**

Model	<b>G6N</b> (H550mm) 	<b>G6N</b> (H750mm) 
<b>Resistance level</b>		
<b>Resistance to impact</b>	1.5 T at 48 km/h	2.5 T at 48 km/h (set of 2 bollards)
<b>Crash-tested IWA-14:2013</b>	Dynamic simulation	Dynamic simulation
<b>Crash-tested PAS68</b>	Dynamic simulation	Dynamic simulation
<b>On-board hydraulic drive</b>	✓	✓
<b>Remote hydraulic drive</b>	✓	✓
<b>Pneumatic drive</b>	✓	✓
<b>Material</b>	Casting	Casting
<b>Thickness</b>	11 mm	11 mm
<b>Bollard diameter</b>	250 mm	250 mm
<b>Bollard height</b>	550 mm	750 mm
<b>Depth of civil works (excluding drain)</b>	930 mm	1130 mm
<b>Voltage (depending on the version)</b>	24 V - 230V	24 V - 230V
<b>Extraction time</b>	5 to 7 seconds	5 to 7 seconds
<b>Retraction time</b>	5 seconds	5 seconds
<b>Retro reflective band</b>	✓	✓
<b>LED light ring</b>	✓	✓
<b>Interchangeable sleeve</b>	✓	✓
<b>EFO option (emergency lift in 1.5 sec.)</b>	-	-
<b>Optional Battery</b>	-	-
<b>Optional Drill</b>	✓	✓
<b>IP67</b>	✓	✓
<b>PMR</b>	✓	✓
<b>ISO EN 124</b>	E600	E600
<b>Available in Fixed version</b>	-	-
<b>Available in Removable version</b>	-	-
<b>Available in Semi-automatic version</b>	✓	✓




# OVERVIEW

## AUTOMATIC RETRACTABLE BOLLARDS

RETRACTABLE BOLLARD RANGE			
G30	ONE 30 <sup>EVO</sup>	ONE 40 <sup>EVO</sup>	ONE 50 <sup>EVO</sup>
			
2.5 T at 48 km/h	7.5 T at 48 km/h	7.5 T at 64 km/h	7.5 T at 80 km/h
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
-	-	-	-
High resistance steel	High resistance steel	High resistance steel	High resistance steel
12.5 mm	20 mm	36 mm	36 mm
250 mm	250 mm	250 mm	325 mm
750 mm	1000 mm	1000 mm	1000 mm
1095 mm	1965 mm	1965 mm	1965 mm
24 V - 230V	24 V - 400V	24 V - 400V	24 V - 400V
5 to 6 seconds	5 to 7 seconds	5 to 7 seconds	5 to 7 seconds
3 to 4 seconds	3 to 5 seconds	3 to 5 seconds	3 to 5 seconds
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
-	✓	✓	✓
-	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
E600	F900	F900	F900
✓	✓	✓	✓
-	✓	✓	✓
-	-	-	-

Three drives are available depending on the model of the removable bollard selected.

### FEATURES AND OPTIONS OF DRIVES

Standard Group	External Hydraulic 	Built-in Hydraulic 	Pneumatic 
Standard power consumption (kW)	0.55   1.1   1.5	0.33   2.2	0.54   0.92   1.42
Standard working pressure (bar)	50   50   70/90/110*	55   70/90/110*	5.5 to 7
Supply voltage (V)	230V   230V   400V	230 V   400 v	230 V
Standard pump flow rate (L/min)	5.4   8.8   9	4   9	60   105   195
Operating temperature (standard)	-20 to +55°C	-20 to +55°C	+5 to +55°C
Extraction time	5 to 7 seconds	5 to 7 seconds	5 to 7 seconds
Retraction time	3 to 5 seconds	3 to 5 seconds	3 to 5 seconds
Protection class	IP54	IP67	IP54
Compatible with G6 N bollard	✓	✓	✓
Compatible with G30 bollard	✓	✓	✓
Compatible with ONE EVO bollards	✓	✓	✓
Installation in a control unit	✓	-	✓
Installation in the bollard box	-	✓	-
EFO option (emergency lift in 1.5 sec.5 s)	✓ Specific group	✓	-
Optional Battery	✓	✓	-
Optional Drill	✓	-	-
Maximum number of bollards managed per group (depending on version)	1 to 6	1	1 to 10

\* ONE 30 EVO | ONE 40 EVO | ONE 50 EVO

Moreover, there are **three functional variants**:



#### EFO

Emergency Fast Operation, this version allows an emergency lift in 1.5 seconds for the ONE<sup>EVO</sup> high security range.



#### BATTERY

The hydraulic battery is used to raise the bollard in case of a power failure. When the hydraulic pump is running, it charges the battery. When pressurized, the battery will activate the bollard. It ensures the EFO emergency lift for on-board and remote hydraulic drives.



#### DRILL

The Drill system is a semi-automatic hydraulic remote drive, for occasional use, intended for G30 and ONE<sup>EVO</sup> automatic bollards. It allows the bollards to be raised with a screwdriver and lowered using a lever.



# THE AVAILABLE DRIVES



## EXTERNAL HYDRAULIC UNIT

Pressurized oil supply for automatic bollards with hydraulic cylinders.  
Remote installation in a technical control unit (1 hydraulic hose must connect the bollard to the technical control unit).

- SUITABLE FOR HEAVY-DUTY USE**
- COMPATIBLE WITH ALL BOLALRD SIZES**
- SINGLE-ACTING CYLINDER**
- SIMPLIFIED MAINTENANCE AND OPERATIONS**
- OPTIONAL MANUAL LIFT PUMP**



## BUILT-IN HYDRAULIC UNIT

On-board hydraulic drive positioned directly in the bollard box.  
No hydraulic hose between the bollard and the automation system.

- SUITABLE FOR HEAVY-DUTY USE**
- INCREASED CONNECTION DISTANCES**
- SINGLE-ACTING CYLINDER**
- SILENT OPERATION**
- SPACE SAVING AT THE CONTROL UNIT LEVEL**
- EASY CONNECTION**



## PNEUMATIC COMPRESSOR

Compressed air supply for automatic bollards with pneumatic cylinders.  
An electric motor drives a compressor with oil-free technology for operation in all positions.

- SUITABLE FOR HEAVY-DUTY USE**
- ACCESSIBLE SOLUTION**
- LOW MAINTENANCE COST**
- ENVIRONMENTALLY FRIENDLY SYSTEM**
- EASY CONNECTION**
- ENABLES CONTROL OF UP TO 10 BOLLARDS (DEPENDING ON THE SIZE OF THE BOLLARDS)**



# NEW PRODUCT

## G6N



CAME URBACO has evolved its historic G6 model. A version that combines the legendary reliability of the G6 with the innovative customization of the G6<sup>EVO</sup> and the strength of integrated improvements.

Always attentive to feedback, our Research and Development department has re-examined its flagship bollard to propose areas for improvement

Keeping its potential and its assets, the new version of the new **G6** bollard now has new advantages that will appeal to vehicular access control projects where security is not an issue.



## ITS NEW STRENGTHS

- + Improved head stability: No adjustment required | Constant Stability**  
Thanks to a new system, the centering of the bollard head is simple and stable over time.
- + One box: Easy to install and maintain**  
The housing, which is common to all drives, does not undergo any modification before assembly, which ensures consistent quality, ease of assembly and easier maintenance.  
The opening and fixing points necessary for the installation of the various supports are standardized.
- + A common and mobile quick connector: Simplified maintenance**  
All major electrical connections are reduced to a quick connector with common power supply. The cable routing is then simplified and common to all types of “drives” and the maintenance of the entire system is considerably improved. This quick connector is mounted on a bracket that can easily be removed from the housing.
- + Common and interchangeable accessory supports: Optimized handling**  
Regardless of the drive unit, all brackets have the same mounting logic in the housing.
- + LED strip and light ring upgrade: Improved signaling & strength**  
The new design of the light ring improves the aesthetics of the bollard, provides greater luminosity, improves the fit of the sleeve, ensures greater watertightness and allows for quick replacement of the LED strip.
- + A design preserved by a special seal: Long-term aesthetics**  
A brush seal prevents the entry of dust and thus reduces the risk of scratching the sleeves. It can be easily replaced if it becomes worn over time.





Resistance equivalent from a **1.5T** vehicle traveling at **48 km/h\*** to **2.5T** traveling at **48 km/h\*** (per set of 2 bollards)  
**> 133 kJ & 238 kJ**



CHARACTERISTICS	
Raw head material	Casting
Sleeve materials	Stainless steel 304 L   Stainless steel 316 L
Thickness	11 mm
Bollard diameter	250 mm
Bollard height	550 mm   750 mm
Depth of civil works (excluding drain)	930 mm   1130 mm
Voltage (depending on the version)	24V - 230V
Extraction time	5 to 7 seconds
Retraction time	5 seconds
Standard positive security	Lowering the bollard in the event of a power failure
IP67	Dust-tight and immersion-proof

\* Dynamic simulation performed by an approved laboratory

### MONOBLOC® CONCEPT

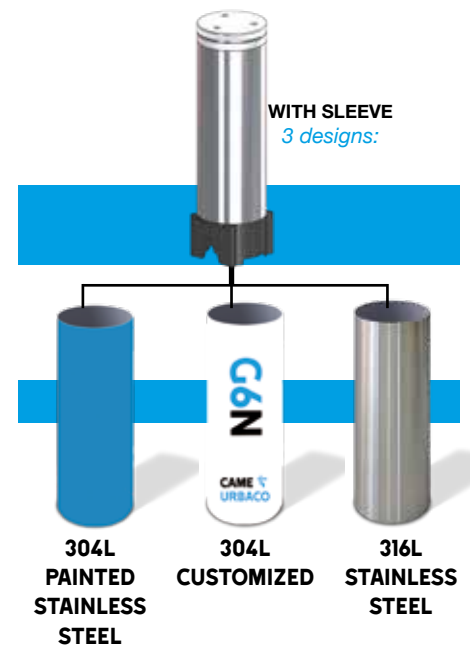
Raw head, casing and cover made of cast iron, with an average thickness of 11mm, each cast in one piece, without welds or wear parts.

### INTERCHANGEABLE SLEEVE CONCEPT

An innovative system of interchangeable sleeves allows the visual aspect of the access to be personalized and damaged bollard heads to be refurbished in less than 5 minutes.

### 10-YEAR WARRANTY\*\*

10-year warranty on cast-iron bollard head, casing and cover\*\*.



## COMPATIBILITY AND OPTIONS

#### DESIGN & SIGNALING

RAL to choose from | Stainless steel  
 316L or customized sleeve  
 Retro reflective band  
 Light ring  
 LED diffuser on the cap

#### DRIVE

External hydraulic  
 Built-in hydraulic  
 Pneumatic compressor

#### OPTIONS

Heater  
 Heated cable and connector  
 Negative security (depending on drive)

#### ACCESS CONTROL SOLUTION

Automation system  
 Function logic  
 Safety loops  
 Equipment: Control boxes/ Panels / Totems



## AUTOMATIC RETRACTABLE BOLLARDS

# G6N

The new **G6** retractable bollard, new version of the original **CAME URBACO** model, with customizable design, fits perfectly into all urban development and access protection projects. With its innovative system of interchangeable sleeves, can be used to customize the installation site, making it unique. It retracts into the ground thanks to a remote control (remote control, contactless card, keypad, etc.), thus leaving the lane free, and rises again automatically when the vehicle passes.










### AVAILABLE DRIVES



### ITS STRENGTHS

AVAILABLE IN  
SEMI-AUTOMATIC



-  10-year warranty\*\*
-  Customized interchangeable sleeve
-  Fast and economical maintenance
-  Resistance to impact : from a 1.5 T at 48km/h to a 2.5 T at 48km/h (set of 2)
-  A new and improved version
-  ISO EN 124 – E600
-  A time-tested bollard that has proven its worth

\*\* See the "Warranty" chapter in our General Terms of Sale



Impact resistance of a **2.5T** pick-up truck traveling at **48 km/h**  
**> 238 kJ**



CHARACTERISTICS	
Materials	High resistance steel
Thickness	12.5 mm
Structure treatment	Hot-dip galvanizing (anti-corrosion)
Bollard diameter	250 mm
Bollard height	750 mm
Depth of civil works (excluding drain)	1095 mm
Voltage (depending on the version)	24V - 230V
Extraction time	5 to 6 seconds
Retraction time	3 to 4 seconds
Standard positive security	Lowering the bollard in the event of a power failure
IP67	Dust-tight and immersion-proof

### CRASH TEST

Demonstrates the safety level of the G30 bollard stopping a **2.5 T pick-up truck** traveling at **48 km/h**.

**Certified according to international standards:**  
**IWA 14-1:2013 & PAS68:2013**

> Penetration after the obstacle **0.6 meters**



### INTERCHANGABLE SLEEVE CONCEPT

An innovative system allowing to customize the visual aspect of the access and to refurbish damaged bollard heads in less than 5 minutes.

### COMPATIBILITY AND OPTIONS

#### DESIGN & SIGNALING

Customized 304L stainless steel sleeve  
 Stainless steel 304L sleeve painted RAL of your choice  
 Stainless steel 316L sleeve  
 + Retro reflective band  
 + Light ring

#### DRIVE

**External hydraulic**  
**Built-in hydraulic**

#### OPTIONS

**Remote hydraulic unit**  
**On-board hydraulic unit**  
 Heater  
 Heated cable and connector  
 Negative security (depending on drive)

#### ACCESS CONTROL SOLUTION

Automation system  
 Function logic  
 Safety loops  
 Equipment: Control boxes/ Panels / Totems



## AUTOMATIC RETRACTABLE BOLLARDS

# G30

The **G30 hybrid bollard** is compatible with stand-alone or centralized access control projects with a safety aspect. Designed to control frequented accesses in urban areas, it is perfectly adapted to protect strategic areas such as schools, shopping centers or hotels where the safety of goods and people is paramount.



### AVAILABLE DRIVES



### FUNCTIONAL OPTION










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### ITS STRENGTHS

AVAILABLE IN  
FIXED VERSION



-  Crash tested, certified impact resistance
-  Accessible safety solution
-  Impact resistance: a 2.5 T truck at 48km/h
-  Penetration after impact less than 1m
-  ISO EN 124 – E600
-  Customized sleeve
-  Interchangeable sleeve and quick connection: easier maintenance



Impact resistance of a **7.5T** truck traveling at **48 km/h**  
 > **681.2 kJ**



CHARACTERISTICS	
Materials	High resistance steel
Thickness	20 mm
Structure treatment	Hot-dip galvanizing (anti-corrosion)
Bollard diameter	250 mm
Bollard height	1000 mm
Depth of civil works (excluding drain)	1965 mm
Voltage (depending on the version)	24V - 400V
Extraction time	5 to 7 seconds
Retraction time	3 to 5 seconds
Standard negative security	Keeps the bollard in position in the event of a power failure
IP67	Dust-tight and immersion-proof

### CRASH TEST

Demonstrates the high safety level of the ONE30<sup>EVO</sup> bollard stopping a **7.5 T truck** traveling at **48 km/h**.

**Certified according to international standards:**  
**IWA 14-1:2013 & PAS68:2013**

> Penetration after the obstacle **0** meters



### INTERCHANGABLE SLEEVE CONCEPT

An innovative system allowing to customize the visual aspect of the access and to refurbish damaged bollard heads in less than 5 minutes.

### COMPATIBILITY AND OPTIONS

#### DESIGN & SIGNALING

Customized 304L stainless steel sleeve  
 Stainless steel 304L sleeve painted RAL of your choice  
 Stainless steel 316L sleeve  
 + Retro reflective band  
 + Light ring

#### DRIVE

**External hydraulic**  
**Built-in hydraulic**

#### OPTIONS

Emergency lift (E.F.O., in 1.5 sec.)  
 Rainwater pump  
 Audible motion alarm  
 Frost-free system -20°C or -50°C  
 High/low damper (remote)

#### ACCESS CONTROL SOLUTION

Automation system  
 Function logic  
 Safety loops  
 Equipment: Control boxes/ Panels / Totems



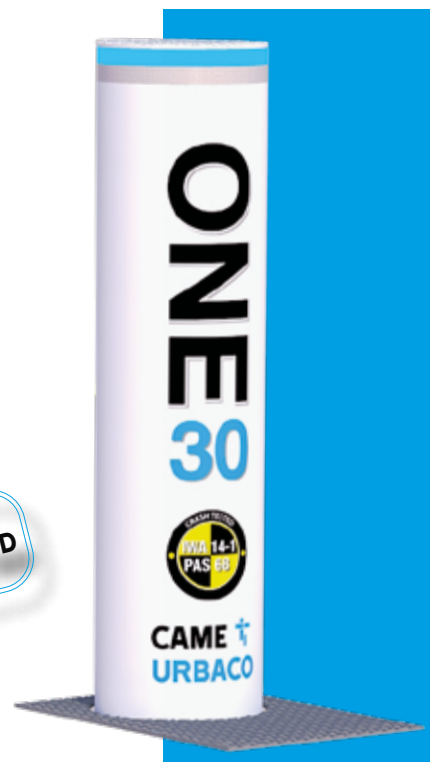
## AUTOMATIC RETRACTABLE BOLLARDS

# ONE30<sup>EVO</sup>

The **ONE30<sup>EVO</sup>** retractable bollard, high security device, is designed to control access to sensitive sites and protect strategic access points from ram-vehicle attacks. It always ensures safe access after impact.



CRASH-TESTED



### AVAILABLE DRIVES



### FUNCTIONAL OPTIONS



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### ITS STRENGTHS

### AVAILABLE IN

REMOVABLE

FIXED VERSION



-  Crash tested, certified impact resistance
-  Certified according to international standards
-  Impact resistance: 7.5 T at 48 km/h
-  Penetration after impact: 0m
-  One bollard is enough to stop the truck
-  Customized/interchangeable sleeve
-  ISO EN 124 - Class F900 (up to 90T)
-  EFO option: emergency lift in 1.5 sec.



Impact resistance of a **7.5T** truck traveling at **64 km/h**  
 > **1.290 kJ**



CHARACTERISTICS	
Materials	High resistance steel
Thickness	36 mm
Structure treatment	Hot-dip galvanizing (anti-corrosion)
Bollard diameter	250 mm
Bollard height	1000 mm
Depth of civil works (excluding drain)	1965 mm
Voltage (depending on the version)	24V - 400V
Extraction time	5 to 7 seconds
Retraction time	3 to 5 seconds
Standard negative security	Keeps the bollard in position in the event of a power failure
IP67	Dust-tight and immersion-proof

### CRASH TEST

Demonstrates the high safety level of the ONE40<sup>EVO</sup> bollard stopping a **7.5 T truck** traveling at **64 km/h**.

**Certified according to international standards:**  
**IWA 14-1:2013 & PAS68:2013**

> Penetration after the obstacle **2.6** meters



### INTERCHANGABLE SLEEVE CONCEPT

An innovative system allowing to customize the visual aspect of the access and to refurbish damaged bollard heads in less than 5 minutes.

### COMPATIBILITY AND OPTIONS

#### DESIGN & SIGNALING

Customized 304L stainless steel sleeve  
 Stainless steel 304L sleeve painted RAL of your choice  
 Stainless steel 316L sleeve  
 + Retro reflective band  
 + Light ring

#### DRIVE

**External hydraulic**  
**Built-in hydraulic**

#### OPTIONS

Emergency lift (E.F.O., in 1.5 sec.)  
 Rainwater pump  
 Audible motion alarm  
 Frost-free system -20°C or -50°C  
 High/low damper (remote)

#### ACCESS CONTROL SOLUTION

Automation system  
 Function logic  
 Safety loops  
 Equipment: Control boxes/ Panels / Totems



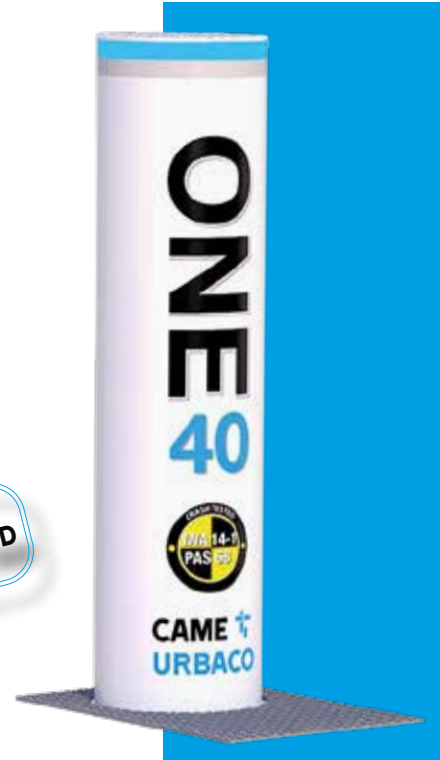
## AUTOMATIC RETRACTABLE BOLLARDS

# ONE40<sup>EVO</sup>

The **ONE40<sup>EVO</sup>** retractable bollard, high security device, is designed to control access to sensitive sites and protect strategic access points from ram-vehicle attacks. It always ensures safe access after impact.



CRASH-TESTED



### AVAILABLE DRIVES



### FUNCTIONAL OPTIONS



H & HE

H & HE

H











### AVAILABLE IN

REMOVABLE

FIXED VERSION



-  Crash tested, certified impact resistance
-  Certified according to international standards
-  Impact resistance: 7.5 T at 64km/h
-  Low penetration after impact
-  One bollard is enough to stop the truck
-  Customized/interchangeable sleeve
-  ISO EN 124 - Class F900 (up to 90T)
-  EFO option: emergency lift in 1.5 sec.



Resistance to the impact of two consecutive **7.5T** trucks traveling at **80 km/h**  
**> 1 776 kJ : 1st crash-test / 1765 kJ : 2nd crash-test**



CHARACTERISTICS	
Materials	High resistance steel
Thickness	36 mm
Structure treatment	Hot-dip galvanizing (anti-corrosion)
Bollard diameter	325 mm
Bollard height	1000 mm
Depth of civil works (excluding drain)	1965 mm
Voltage (depending on the version)	24V - 400V
Extraction time	5 to 7 seconds
Retraction time	3 to 5 seconds
Standard negative security	Keeps the bollard in position in the event of a power failure
IP67	Dust-tight and immersion-proof

### CRASH TEST

Demonstrates the high safety level of the ONE50<sup>EVO</sup> bollard stopping a **7.5 T truck** traveling at **80 km/h**.

**Certified according to international standards:**  
**IWA 14-1:2013 & PAS68:2013**

> Penetration after the obstacle **4.2** meters



### INTERCHANGABLE SLEEVE CONCEPT

An innovative system allowing to customize the visual aspect of the access and to refurbish damaged bollard heads in less than 5 minutes.

### COMPATIBILITY AND OPTIONS

#### DESIGN & SIGNALING

Customized 304L stainless steel sleeve  
 Stainless steel 304L sleeve painted RAL of your choice  
 Stainless steel 316L sleeve  
 + Retro reflective band  
 + Light ring

#### DRIVE

**External hydraulic**  
**Built-in hydraulic**

#### OPTIONS

Emergency lift (E.F.O., in 1.5 sec.)  
 Rainwater pump  
 Audible motion alarm  
 Frost-free system -20°C or -50°C  
 High/low damper (remote)

#### ACCESS CONTROL SOLUTION

Automation system  
 Function logic  
 Safety loops  
 Equipment: Control boxes/ Panels / Totems



## AUTOMATIC RETRACTABLE BOLLARDS

# ONE50<sup>EVO</sup>

The **ONE50<sup>EVO</sup>** retractable bollard, high security device, is designed to control access to sensitive sites and protect strategic access points from ram-vehicle attacks. It always ensures safe access after two consecutive impacts.



**CRASH-TESTED**  
1ST BOLLARD IN THE  
WORLD TO RESIST THE  
IMPACT OF 2 CONSECU-  
TIVE TRUCKS TRAVELING  
AT 80KM/H



### AVAILABLE DRIVES



### FUNCTIONAL OPTIONS



H & HE

H & HE

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### ITS STRENGTHS

### AVAILABLE IN

REMOVABLE

FIXED VERSION



- Resistance to 2 7.5T trucks traveling at 80km/h
- Double crash test by one bollard.
- Certified according to international standards
- One bollard is enough to stop the truck
- Customized/interchangeable sleeve
- ISO EN 124 - Class F900 (up to 90T)
- EFO option :emergency lift in 1.5 sec.

# BMM

## MECHANICAL MANUAL BOLLARDS



The **Mechanical Manual Bollard** is the recommended solution to block an access, while allowing its occasional opening. With no drive or cylinder gas assistance, the BMM is the only manually retractable bollard.

### CHARACTERISTICS


Materials	Steel
Thickness	4 mm
Bollard diameter	200 mm
Bollard height	640 mm
Depth of civil works (excluding drain)	1205 mm
Unlocking wrench	E11



**ITS STRENGTHS**

### OPERATION

The locking and the raising and lowering operations are carried out thanks to a specific E11 wrench with lugs that is inserted on top of the bollard (system compatible with the fireman's spanner wrench).

 Closing or opening an access very occasionally

 Possibility to leave the bollard in low position

 Economical retractable solution

### ACCESSORIES & OPTIONALS

RAL color of your choice	optional
Retro reflective band	optional
Extra handle for handling	optional



## SEMI-AUTOMATIC RETRACTABLE BOLLARDS

# BEM G6N

The **removable semi-automatic** bollard is a system designed to **free up access on a very occasional basis**. Therefore, it is recommended where the access frequency is low.

The semi-automatic bollard is also the ideal access control solution in areas without electrical connections.



### CHARACTERISTICS

Materials	Casting
Thickness	11 mm
Bollard diameter	250 mm
Bollard height	550 mm   750 mm
Depth of civil works (excluding drain)	930 mm   1130 mm
Imprint	T11 (specific optional features)

### ITS STRENGTHS






### OPERATION

The bollard is set in motion by a wrench that unlocks the mechanism.

A push on the bollard head allows the bollard to be lowered into the ground, the lower lock is automatic. Then, by turning the wrench, the bollard rises by itself and locks in the upper position.

### ACCESSORIES & OPTIONALS

RAL color of your choice	optional
Set of 2 lifting rings	optional
Retro reflective band	optional
Specific imprints	optional
Vandal-proof screws	optional

-  Access control without power supply
-  Occasional opening of an access
-  G6N Robustness
-  Monobloc Concept
-  11mm thick cast iron: Non-deformable

# ROAD BLOCKER

The Road Blocker completes the range of CAME URBACO high security solutions. It provides secure access by covering the entire width of the passageway.

## ROAD BLOCKER **HRB SHLW**





Impact resistance of a **7.5T** truck traveling at **80 km/h**  
 > **1879 kJ**



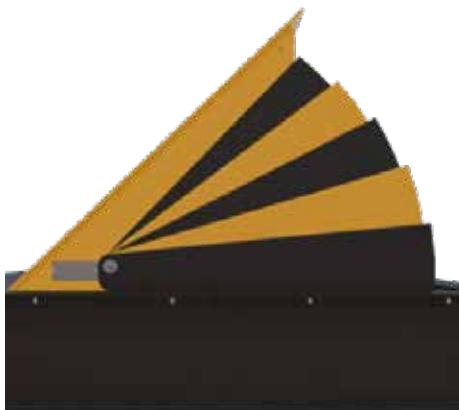
CHARACTERISTICS	
Materials	High resistance steel
Structure treatment	Hot-dip galvanizing (anti-corrosion)
Obstacle width (mm)	1000   1500   2000   2500   3000   3500 4000   4500   5000   5500   6000   6500
Obstacle height	900 mm
Civil works depth	400 mm
Retraction time	3 to 5 seconds
IP68	Dust-tight and immersion-proof

### CRASH TEST

Demonstrates the high degree of security of the HRB30 P90 SHLW road blocker stopping a **7.5 T truck** traveling at **80 km/h**.

**Certified according to international standards:**  
**IWA 14-1:2013 & PAS68:2013 & ASTM 2656-18**

> Penetration after the obstacle **-2.2** meters



### COMPATIBILITY AND OPTIONS

#### DESIGN & SIGNALING

RAL paint (color of your choice)  
 STOP marking on shield

#### DRIVE

Remote hydraulic unit

#### OPTIONS

Emergency lift (E.F.O., in 1.5 sec.)  
 High/low damper

#### ACCESS CONTROL SOLUTION

Automation system  
 Function logic  
 Safety loops  
 Equipment: Control Panels



## ROAD BLOCKER SHALLOW MOUNT

# HRB SHLW

The anti-intrusion **Road blocker** is designed to prevent unauthorized vehicles from entering a secure perimeter. It provides the highest level of ram protection by withstanding the impact of a 7.5T truck at 80km/h. This **shallow mount** model allows an easy installation because of its shallow embedding depth.



### AVAILABLE DRIVES











### FUNCTIONAL OPTIONS



## ITS STRENGTHS

CONTACT US FOR OTHER  
VERSIONS



-  Crash tested, certified impact resistance
-  Certified according to international standards
-  Impact resistance: 7.5 T at 80km/h
-  Low penetration after impact
-  A road blocker is enough to stop a truck
-  Low embedding depth
-  EFO option: emergency lift in 1.5 sec.
-  Optional battery: rise in the case of a power failure



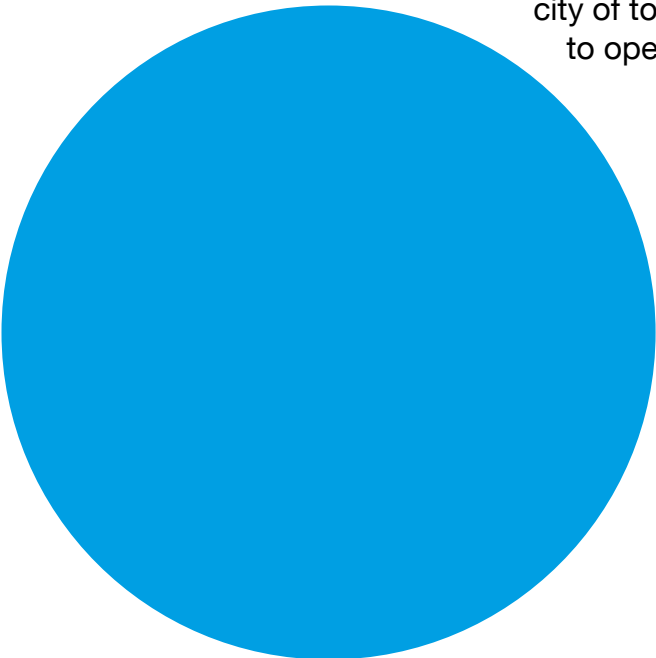


# SMART DEVICES

CAME URBACO designs modular solutions for managing urban access control with a security dimension. A range of complementary [equipment](#) houses the bollard [control systems](#).

The **Sygma 4** management software offers [the centralization of equipped accesses](#).

Its [“intelligent” and evolutionary devices](#) respond to the city of tomorrow: SAFE & SMART, a connected city thanks to open solutions that communicate with each other but also with existing facilities.



# CONTROL PANELS AND TOTEEMS

The control boxes, control panels and totems are street fixtures that integrate the bollard's automation elements (automatic control panel, control devices, signaling devices). Integrating perfectly into the urban environment, they allow the management of several bollards simultaneously or individually.

## CONTROL BOXES AND PANELS

**TOTEM CITY 1**

**TOTEM CITY 2N**

**TOTEM CITY 6<sup>EVO</sup>**



CANNES  
CITY LIGHTS  
WWW.CANNES.COM



RESPECTEZ LES PEUX  
Signal - Démarreur - Stop

CIRCULATION  
PÉDESTRIENNE  
PAR ARRÊTÉ MUNICIPAL





INTERPHONE

Click - Répondeur - Appel

CANAL  
5

**FEATURES AND OPTIONS OF CONTROL EQUIPMENT**

**Key**

	<b>COMPATIBLE</b>
	<b>COMPATIBLE WITH YOUR CHOICE (LIMITED SPACE)</b>
	<b>NOT COMPATIBLE</b>

**Model**

**CONTROL BOX**



**CONTROL PANEL**



**Capacity level**

**Material (standard)**

Steel

Aluminum

**Compatible PLCs**

U20T



LOGO



COMPUTER PANEL



INDUS COMPUTER



**Integrable Drives**

On-board hydraulic



Remote hydraulic



Pneumatic



**Compatible signaling devices**

One light



Two-tone lights



Supplementary Light models



**Compatible control devices**

Radio receiver Remote control



Badge reader



Bluetooth reader



Intercom system



Code keypad



QR code reader



License plate recognition camera



Push button



GSM / telephone



delivery button



Télétag



**Tactile screen interface**



# OVERVIEW OF CONTROL EQUIPMENT AND TOTEMS

## CONTROL EQUIPMENT AND TOTEMS

CITY 1	CITY 2N	CITY 6 <sup>EVO</sup>
		
Steel	Steel	Steel
✓	✓	✓
✗	✓	✓
✗	✗	✓
✗	✗	✓
✓	✓	✓
✗	✗	✓
✗	✗	✓
✗	✗	✓
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✗	✓	✓
✗	✗	✓
✗	✗	✓

### CONTROLLED ACCESS PARTS

**RETRACTABLE BOLLARDS:** One or more automatic retractable bollards, installed in the vehicle lane, which allow or prohibit access

**MANAGEMENT SYSTEM:** A Technical Control Unit in a control box, a control panel, a City 1 V or City 6<sup>EVO</sup> controller receive the user's instructions

**CONTROL DEVICES:** Devices that deliver the right of way by: radio remote control, contactless badge, push button, code keyboard, license plate recognition, etc.

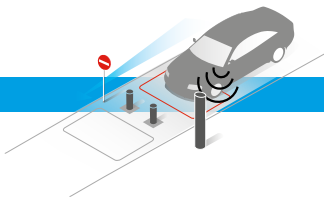
**PLC:** A PLC manages the access operation. It gives the opening or closing command and supplies the necessary energy to the drive to activate the movement of the bollards.

**SAFETY LOOPS:** An electromagnetic detection placed in the ground indicates the presence or absence of vehicles. A loop detects the presence of a vehicle above and validates the request to open the access. A safety loop keeps the passage open until the vehicle has passed.



### SEVERAL OPERATING LOGICS ARE PROPOSED:

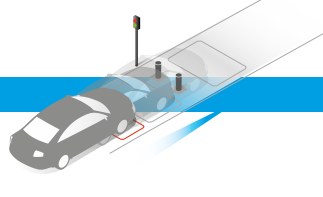
CONTROLLED ENTRY OR EXIT



CONTROLLED ENTRY AND EXIT



AUTOMATIC EXIT



CONTROLLED ENTRY AND AUTOMATIC EXIT



### TWO TYPES OF ACCESS MANAGEMENT:

ACCESS CONTROL OVER **SELF-CONTROLLED SITE:** Access management is done on site.

ACCESS CONTROL OVER **CENTRALIZED SITE:** Access management is done remotely.

### MANAGED PRODUCT LINES, OPEN SOLUTIONS:



CAME URBACO offers customized management compatible with all the brand's ranges. CAME URBACO controllers thus manage bollards, roadblockers and barriers controlled by various control devices. Access control solutions allow to use **open protocols** such as **Modbus (LOGO)**, **ONVIF (INDUS COMPUTER)**, **Web API (INDUS COMPUTER)**.



# ACCESS MANAGEMENT SYSTEM

The CAME URBACO technical control units designed for automatic bollards make it possible to create complete and functional systems, because of their original parts and the maximum possible expansion of the equipment. The electronics are specific to the drive of the bollards. The control units allow the management and control of several bollards simultaneously or individually and are designed to receive any necessary extension, both in terms of control and security.

## EXAMPLES OF TECHNICAL CONTROL UNITS

### SIMPLIFIED SOLUTION

#### ACCESS CONTROL MANAGEMENT

**AUTONOMOUS** on site

PARTS	
<b>Drive</b>	Built-in hydraulic / External hydraulic / pneumatic
<b>PLC</b>	LOGO (configurable industrial PLC) management of loops and controls
<b>or Control Card</b>	U20T (HE) U200 (P)
<b>Control devices</b>	Radio remote control-transmitter



### ADVANCED SOLUTION

#### HIGH SECURITY ACCESS CONTROL MANAGEMENT

**CENTRALIZED** on site

PARTS	
<b>Drive</b>	Built-in hydraulic / External hydraulic / pneumatic
<b>PLC</b>	LOGO (configurable industrial PLC) management of loops and controls
<b>Computer Panel</b>	Industrial computer
<b>Control devices</b>	City 6 EVO options
<b>Modulable</b>	Integration of solutions made to measure





# CONTROL BOX

## EQUIPMENT TECHNICAL CONTROL UNIT





The control box is a wall-mounted piece of equipment that houses the management and control elements of a retractable bollard access system. It is installed in a technical room.



### CHARACTERISTICS

Material	Steel
Thickness	2 mm
Dimensions (mm)	600x400x250   600x600x250   800X600X250   1000X800X400
Mounting	Wall
Protection class	IP54
Locking	Handle
Colors	RAL 7035
Integrable devices	Remote hydraulic On-board hydraulic Pneumatic

### ITS STRENGTHS

-  Compact and robust
-  Key operated lock
-  No civil engineering needed
-  Economical solution

### ACCESSORIES & OPTIONALS

Wall mounting (brackets)	included
30M³ fan	included
Polyester coating	optional



**EQUIPMENT**  
**TECHNICAL CONTROL UNIT**

# CONTROL PANEL

The technical panel is installed on the roadway and contains the automation to control the Came Urbaco bollards.

Provided with a large interior volume, it enables to integrate the automatism, the protective devices, the terminal boards and the control devices on a grid. Depending on the bollard drive system, its interior volume can accommodate the remote hydraulic unit(s), pneumatic compressor(s), etc.



### CHARACTERISTICS





<b>Material</b>	Aluminum
<b>Thickness</b>	2 mm
<b>Dimensions (mm)</b>	800x1000x400   1100x1000x650 1516X800X500   1516X1200X800   1966x1200x1100
<b>Mounting</b>	Ground anchoring
<b>Protection class</b>	IP54
<b>Locking</b>	Key operated lock
<b>Colors (depending on model)</b>	RAL 1015   RAL 7016
<b>Compatible drives</b>	Remote hydraulic On-board hydraulic Pneumatic

**ITS  
STRENGTHS**

### RAL 1015 VERSION

ACCESSORIES & OPTIONALS	
40m <sup>3</sup> or 120m <sup>3</sup> fan	optional



-  Durability and corrosion resistance
-  Large capacity
-  Key operated lock
-  IP54

CHARACTERISTICS	
Material	Steel
Thickness	6 mm
Diameter	194 mm
Height	1425 mm
Locking	Specific lock
Colors	RAL of your choice
Ventilation	Natural
IP54	Protected against dust and water splashes


**COMPATIBLE CONTROL UNITS** OPTIONAL

**RADIO RECEIVER**




Remote control access

**LAPI SYSTEM**



License plate reader camera


**CODE KEYPAD**



Access limited by a security code

**COMPATIBLE SIGNALING UNITS** OPTIONAL

**TWO-TONE LIGHTS**



Red and orange signaling lights

**INTEGRATED CONTROL ELEMENTS**

**ON-BOARD HYDRAULIC PLATE**



Management of up to 2 bollards


**ADDITIONAL OPTIONALS**

**EMERGENCY STOP BUTTON**



Push button

**BOLT CUTTER**



Emergency stop (with clamp)



## MANAGEMENT CONTROLLER TOTEM

# CITY 1

The City 1 controller is used alone or in addition to a City 6<sup>EVO</sup>. It can accommodate lights, a license plate reading sensor (LPR), without automation. The City is designed to be mounted on the ground on a base allowing a 360° rotation.



### FRONT PANEL

Customizable, can integrate the badge reader, intercom, keypad, two-color lights, etc.

### EMERGENCY STOP DOOR OR BOLT CUTTER (OPTIONAL)

With fireman's square wrench imprint lock and mushroom push button (optional)

### TECHNICAL DOOR







With specific anti-vandal lock

### LAPI CAMERA

License plate reader

### BASE PLATE FOR SEALING


## ITS STRENGTHS

-  Made of durable steel
-  Space-saving (on the road)
-  360° swivel
-  Compatible with simple solutions
-  Works alone with bollards on-board hydraulic for 2 bollards
-  Works in conjunction with the City 6<sup>EVO</sup>

CHARACTERISTICS	
Material	Steel
Thickness	2 mm
Dimensions	214 x 260 mm
Height	1551 mm
Locking	3 locks
Finishing	RAL7016 powder coating
Ventilation	41 m³/h fan
IP54	Protected against dust and water splashes

**COMPATIBLE CONTROL UNITS** OPTIONAL

**RADIO RECEIVER**




Remote control access

**BADGE READER**




RFID

**CODE KEYPAD**



Access limited by a security code

**BLUETOOTH READER**



Access management from the phone

**COMPATIBLE SIGNALING UNITS** OPTIONAL

**TWO-TONE LIGHTS**



Red and orange signaling lights  
Front, right and/or left

**INTEGRATED CONTROL ELEMENTS**


**ON-BOARD HYDRAULIC PLATE**



Management of up to 6 bollards


**ADDITIONAL OPTIONALS**

**SPECIFIC SCREEN PRINTING**



Front panel customization

**BOLT CUTTER**



Emergency stop (with clamp)



## MANAGEMENT CONTROLLER TOTEM

# CITY 2N

The CAME URBACO CITY 2N is a cost-effective and aesthetically pleasing management controller solution that offers an integrated user interface. This equipment includes the automation elements such as badge readers, code keypads, front and side signal lights and/or operating logics.



### SIGNALING LIGHTS

(OPTIONAL)

Two-tone lights on the front, right and/or left side of the totem (optional)

### FRONT PANEL

Customizable, can integrate the badge reader, intercom, keypad, two-color lights, etc.

### TECHNICAL DOOR

With specific anti-vandal lock

### BOLT CUTTER (OPTIONAL)

### BASE PLATE FOR SEALING

## ITS STRENGTHS



Made of durable steel



Its ergonomic shape: possible to optimize the interior space to integrate the plates



Compatible with On-board hydraulic G6N and G30 bollards



Double traffic lights on the sides





Management of up to 6 bollards

CHARACTERISTICS	
<b>Material</b>	Steel
<b>Thickness</b>	6 mm
<b>Diameter</b>	323 mm
<b>Height</b>	1860 mm
<b>Locking</b>	3 locks
<b>Colors</b>	RAL of your choice
<b>Insulation</b>	Thermal and sound insulation, thickness 5 mm (with H and P actuators)
<b>Ventilation</b>	At the top and bottom, maintaining the air flow
<b>IP54</b>	Protected against dust and water splashes

### COMPATIBLE CONTROL UNITS OPTIONAL

<b>RADIO RECEIVER</b> Remote control access 	<b>BADGE READER</b> RFID, Mifare (long range) 	<b>QR CODE READER</b> QR code and barcode 
<b>VIGIK READER</b> Access pass badge 	<b>BLUETOOTH READER</b> Access management from the phone 	<b>INTERCOM SYSTEM</b> Audio intercom 
<b>LAPI SYSTEM</b> License plate reader camera 	<b>CAMERA</b> Pinhole color 	<b>TACTILE SCREEN INTERFACE</b> Call button, delivery button, keypad, etc. 




### COMPATIBLE SIGNALING DEVICES OPTIONAL

<b>TWO-TONE LIGHTS</b> Ø100 yellow and red signal lights 	<b>ONE LIGHT</b> Ø200 red signal light 
--	---

### INTEGRATED CONTROL ELEMENTS

<b>REMOTE HYDRAULIC UNIT AND PLATE</b> Management of up to 2 bollards 	<b>ON-BOARD HYDRAULIC PLATE</b> Management of up to 6 bollards 	<b>PNEUMATIC COMPRESSOR AND PLATE</b> Management of up to 2 bollards 
---	---	--

### ADDITIONAL OPTIONALS

<b>ADDITIONAL MODULES</b> Single and double sided different sizes 	<b>BOLT CUTTER</b> Emergency stop (with clamp) 	<b>TICKET PRINTER</b> With collection tray 
---	--	--

### ADDITIONAL MODULES

360° swiveling to enhance signage and ease of access

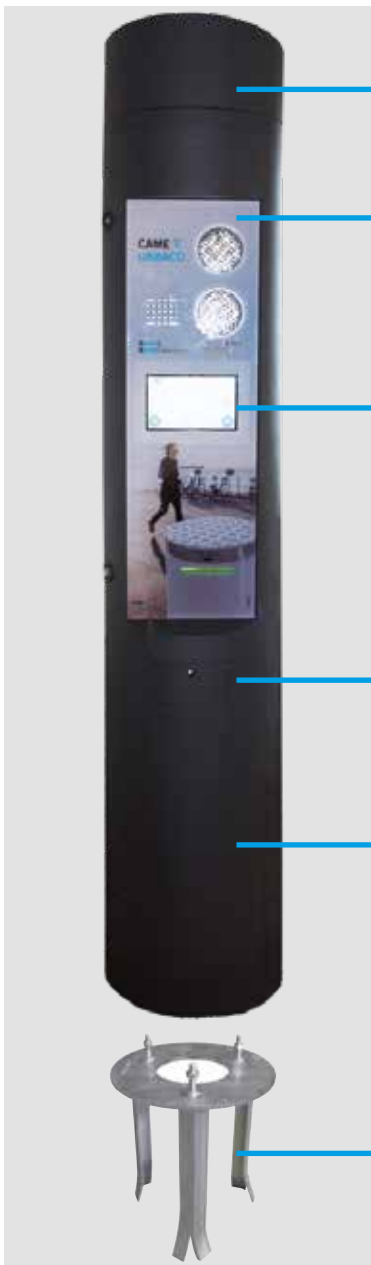




## MANAGEMENT CONTROLLER TOTEM

# CITY 6 EVO

Thanks to its large volume, the City 6<sup>Evo</sup> totem allows to house the automation plate and drive (remote hydraulic unit, pneumatic compressor, etc.). It can also accommodate network hardware. With its modular construction, it offers the freedom to add modules in the upper part, allowing for customized solutions.



**ADDITIONAL MODULES**  
Signage and interface adapted to high vehicles

**FRONT PANEL**  
Customizable, can integrate the badge reader, intercom, keypad, two-color lights, etc.








**TOUCH SCREEN**  
Easy to connect call button, delivery button, keypad, etc.  
Customizable interface

**EMERGENCY STOP DOOR WITH BUTTON OR BOLT CUTTER (OPTIONAL)**  
With fireman's square wrench imprint lock and mushroom push button (optional)

**TECHNICAL DOOR**  
With specific anti-vandal lock

**BASE PLATE FOR SEALING**

## ITS STRENGTHS

-  Made of durable steel
-  360° swivel
-  Suitable for advanced solutions
-  Modulable
-  Compatible with all types of bollards
-  Numerous control devices to choose from
-  Integration study for a customized solution

# CENTRALIZED TECHNICAL CONTROL

The Access Control Management System has been developed for the centralization of retractable bollard access control.

SYGMA 4 enables to manage all the remote control devices on several controlled sites.

**SYGMA 4**



**CHARACTERISTICS**

- ✓ Multi-database
- ✓ Client (WEB) / server architecture
- ✓ Local or Cloud hosting on a Window server
- ✓ Interoperability with other systems
- ✓ Multi-support (Tablet, Smartphone, etc.)
- ✓ E-Identification ( NFC,QRCODE, Bluetooth, etc.)
- ✓ Multi-protocol ( Onvif , WEBAPI, Modbus, etc.)

**GENERAL FUNCTIONS**

- Management of access rights ✓
- Possibility of making statements via a website ✓
- Supervision ✓
- Intervention management ✓
- Dynamic statistics management ✓
- Access management (integrated PC) ✓
- Management configuration (Access control, etc.) ✓

**SYGMA 4 SCREEN VIEW AND FEATURES**



**SUPERVISION**

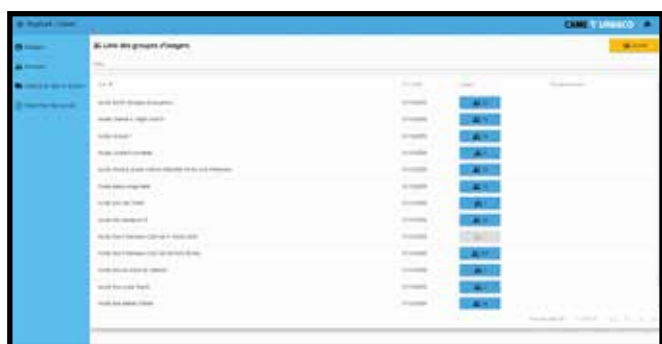
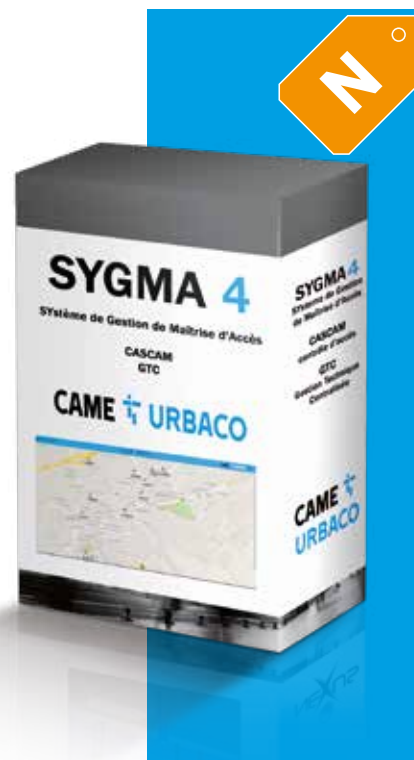
<b>Visualization of the overall access conditions</b>	Open/closed access, faults, loops active or illegal parking...
<b>Remote access control</b>	Simple opening, with ticket, low-level forcing
<b>Direct diagnosis of all access parts.</b>	Bollard, PLC, loops, compressor, lights, emergency mushroom button, clock, reader, connections... Event, alarm and fault logging system
<b>Real-time statistics</b>	Condition graphs: transits and anomalies








## SUPERVISOR REMOTE MANAGEMENT OF ACCESSES

# SYGMA 4

The CAME URBACO access management solution is part of a **global centralization of all Safe & Smart devices** present in a defined perimeter. Hosted on a web server, SYGMA 4 is directly accessible online. Compatible with **open protocols** such as **Modbus**, **ONVIF**, **Web Service**, it can meet the requirements of third-party hypervisors to establish remote management and access reporting.



-  A web-based monitoring solution
-  Traceability and information feedback
-  Accessible anywhere at any time
-  Can be integrated into hypervision systems
-  Compatible with open protocols





CENTRALIZED CONTROL

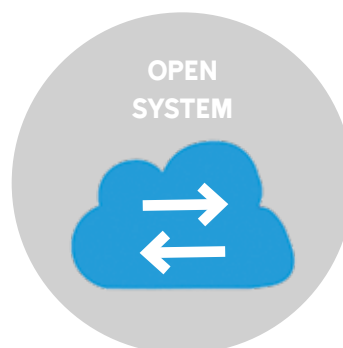
SMART DEVICES

# OPEN SYSTEM

CAME URBACO's access control solutions make it possible to use open protocols such as Modbus, ONVIF, Web Service.

CAME URBACO management systems can also be easily integrated into an existing hypervisor: Milestone, Hyatom, Genetec, Geutebruck...

## MANAGEMENT OF CAME URBACO ACCESSES



## HYPERVERSOR



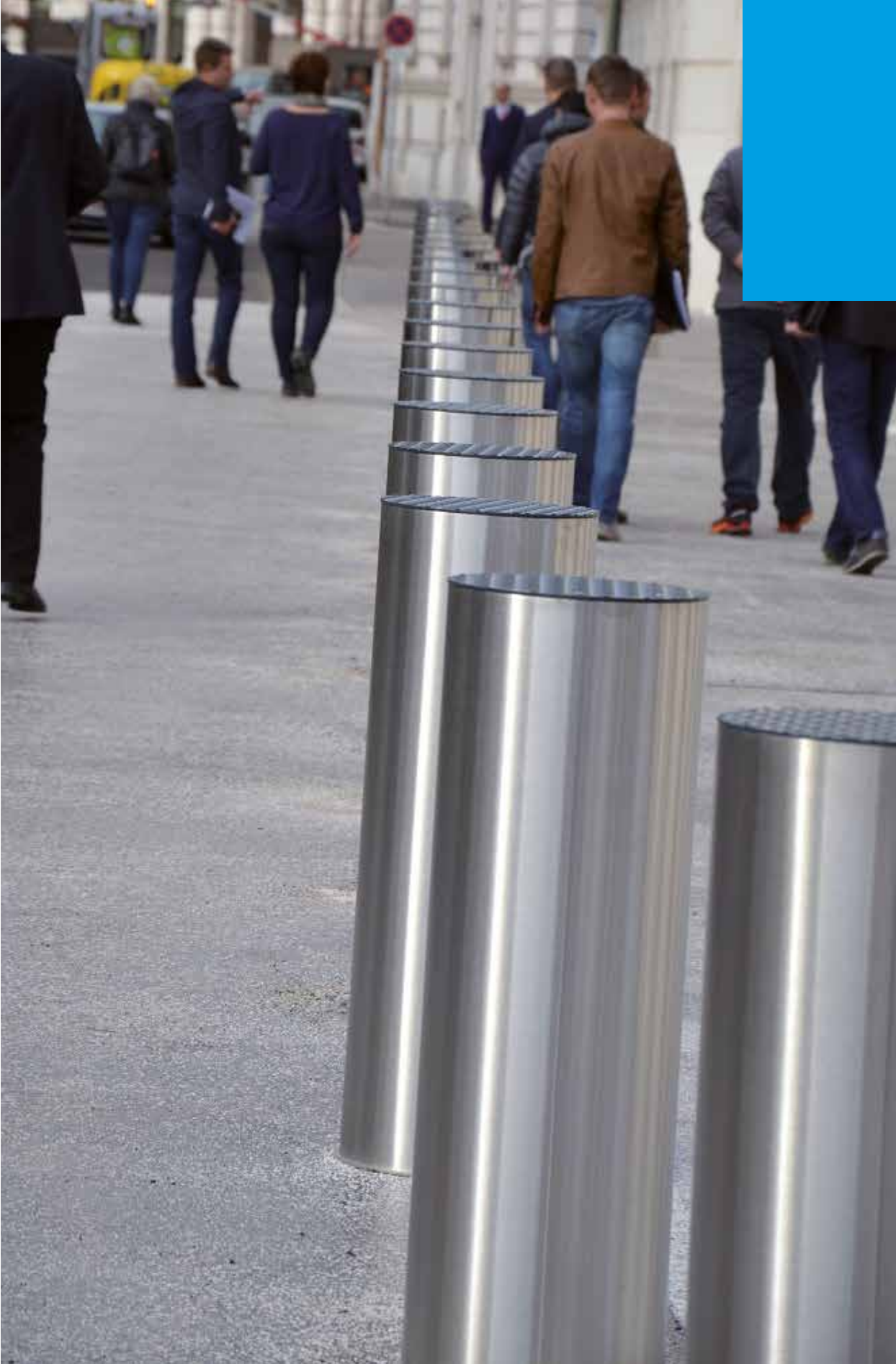
MILESTONE

HYMATOM

GENETEC

GEUTEBRUCK

SUPERVISOR SYGMA 4  
CAME URBACO





# PERIMETER SECURITY

To secure urban, industrial and commercial spaces, **CAME URBACO** offers a complementary range of retractable systems. On the periphery of the vehicular access control zones, fixed and removable bollards delimit the traffic lanes.

# FIXED & REMOVABLE BOLLARDS

Fixed bollards are installed to protect areas where traffic is restricted, on the periphery of a controlled or prohibited access. Removable bollards limit access to authorized vehicles when the frequency of opening is low. They are ideal to complete an installation of retractable bollards while maintaining the same aesthetic.

## **G30** FIXED BOLLARD


**ONE 30<sup>EVO</sup> FIXED & REMOVABLE BOLLARD**

**ONE 40<sup>EVO</sup> FIXED & REMOVABLE BOLLARD**

**ONE 50<sup>EVO</sup> FIXED & REMOVABLE BOLLARD**







		<b>FEATURES AND</b>
	<b>Model</b>	<b>MISTRAL</b> 
	<b>Resistance level</b>	
<b>ONE BOLLARD</b>	<b>Resistance to impact</b>	-
	<b>Crash-tested IWA-14:2013</b>	-
	<b>Crash-tested PAS68</b>	-
	<b>PAS68:2013 Dynamic Simulation performed by an approved laboratory</b>	-
	<b>Civil works depth</b>	200 to 350 mm
	<b>PER SET OF 3 BOLLARDS</b>	<b>Resistance to impact</b>
<b>PAS68:2013 Dynamic Simulation performed by an approved laboratory</b>		-
<b>Civil works depth</b>		-
<b>CHARACTERISTICS</b>	<b>Material</b>	Steel
	<b>Thickness</b>	3 to 6 mm
	<b>Bollard diameter</b>	76 to 250 mm
	<b>Bollard height</b>	500 to 1200 mm
	<b>Retro reflective band</b>	✓
	<b>Interchangeable sleeve</b>	-
	<b>PMR</b>	-
	<b>Available in Retractable version</b>	-
	<b>Available in Removable version</b>	✓

# OVERVIEW FIXED BOLLARDS

## OPTIONS REMOVABLE BOLLARD RANGE

 <p><b>G30</b></p>	 <p><b>ONE 30<sup>EVO</sup></b></p>	 <p><b>ONE 40<sup>EVO</sup></b></p>	 <p><b>ONE 50<sup>EVO</sup></b></p>
2.5 T at 48 km/h	7.5 T at 48 km/h	7.5 T at 64 km/h	7.5 T at 80 km/h
-	Based on the crash test of the retractable version	Based on the crash test of the retractable version	✓
-	Based on the crash test of the retractable version	Based on the crash test of the retractable version	✓
✓	-	-	-
350 mm	650 mm	650 mm	650 mm
-	7.5 T at 48 km/h	7.5 T at 64 km/h	-
-	✓	✓	-
-	400 mm	400 mm	-
High resistance steel	High resistance steel	High resistance steel	High resistance steel
12.5 mm	20 mm	36 mm	36 mm
250 mm	250 mm	250 mm	325 mm
750 mm	1000 mm	1000 mm	1000 mm
✓	✓	✓	✓
✓	✓	✓	✓
✓	✓	✓	✓
-	✓	✓	✓





## FIXED BOLLARDS

# G30

The G30 **fixed bollard** is the recommended solution to delimit and prohibit an access. It is recommended as a complement to retractable bollard access control to secure peripheral spaces while maintaining the same design. It enables to make pedestrian access safe by excluding vehicular traffic. It offers the impact resistance of a 2.5 ton pick-up truck traveling at 48 km/h\*.



### CHARACTERISTICS




Materials	Steel
Treatment	Hot-dip galvanizing (anti-corrosion)
Thickness	12.5 mm
Bollard diameter	250 mm
Bollard height	750 mm
Civil works depth	350 mm
Visual signaling	Retro-reflective band

\* Dynamic simulation performed by an approved laboratory

ITS  
STRENGTHS

### ACCESSORIES & OPTIONALS

RAL color of your choice	included
Customization of the sleeve	optional
LED light ring	optional

-  Definitely delimits and prohibits an access
-  Resistant to a 2.5 T pick-up truck traveling at 48km/h\*
-  Compliant with the French PMR decree



Impact resistance of a **2.5T** pick-up truck traveling at **48 km/h\***  
> **238 kJ**





# ONE30<sup>EVO</sup>

## FIXED BOLLARDS



The ONE30<sup>EVO</sup> fixed bollard is the recommended solution to delimit and prohibit a critical access. It is recommended as a complement to retractable bollard access control to secure peripheral spaces while maintaining the same design. It enables to make pedestrian access safe by excluding vehicular traffic. It offers the impact resistance of a 7.5 ton truck traveling at 48 km/h

### CHARACTERISTICS

Materials	Steel
Treatment	Hot-dip galvanizing (anti-corrosion)--
Thickness	20 mm
Bollard diameter	250 mm
Bollard height	1000 mm
Civil works depth	650 mm   400 mm (per set of 3)

### ITS STRENGTHS

- Definitely delimits and prohibits an access
- Resistant to a 7.5 T truck traveling at 48 km/h\*
- Compliant with the French PMR decree



PER SET OF 3 BOLLARDS\* :  
LOW EMBEDDING DEPTH  
RESISTANCE MAINTAINED

\* Dynamic simulation performed by an approved laboratory

### ACCESSORIES & OPTIONALS

RAL color of your choice	optional
Customization of the sleeve	optional
LED light ring	optional



Impact resistance of a 7.5T truck traveling at 48 km/h\*  
> 681.2 kJ





FIXED BOLLARDS

# ONE40<sup>EVO</sup>

The ONE40<sup>EVO</sup> fixed bollard is the recommended solution to delimit and prohibit a critical access. It is recommended as a complement to retractable bollard access control to secure peripheral spaces while maintaining the same design. It enables to make pedestrian access safe by excluding vehicular traffic. It offers the impact resistance of a 7.5 ton truck traveling at 64 km/h



### CHARACTERISTICS

Materials	Steel
Treatment	Hot-dip galvanizing (anti-corrosion)
Thickness	36 mm
Bollard diameter	250 mm
Bollard height	1000 mm
Civil works depth	650 mm   400 mm (per set of 3)



\* Dynamic simulation performed by an approved laboratory

ACCESSORIES & OPTIONALS	
RAL color of your choice	optional
Customization of the sleeve	optional
LED light ring	optional



- Definitely delimits and prohibits an access
- Resistant to a 7.5 T truck traveling at 64 km/h
- Compliant with the French PMR decree



Impact resistance of a 7.5T truck traveling at 64 km/h > 1,290 kJ







FIXED BOLLARDS

# ONE50<sup>EVO</sup>

The ONE50<sup>EVO</sup> fixed bollard is the recommended solution to delimit and prohibit a critical access. It is recommended as a complement to retractable bollard access control to secure peripheral spaces while maintaining the same design. It enables to make pedestrian access safe by excluding vehicular traffic. It offers the impact resistance of a 7.5 ton truck traveling at 80 km/h

CRASH-TESTED



### CHARACTERISTICS

Materials	Steel
Treatment	Hot-dip galvanizing (anti-corrosion)
Thickness	36 mm
Bollard diameter	325 mm
Bollard height	1000 mm
Civil works depth	650 mm

### ITS STRENGTHS

#### ACCESSORIES & OPTIONALS

RAL color of your choice	optional
Customization of the sleeve	optional
LED light ring	optional

- Definitely delimits and prohibits an access
- Resistant to a 7.5 T truck traveling at 80 km/h
- Compliant with the French PMR decree



Impact resistance of a 7.5T truck traveling at 80 km/h > 1,776 kJ







## REMOVABLE BOLLARDS

# ONE<sup>EVO</sup>

The ONE<sup>EVO</sup> **removable** bollard is a high security system developed to prohibit an access, while allowing its very occasional opening.

The removable system is an excellent solution to complete the closing of an access with one or more automatic bollards (the access can be fully open occasionally).

It allows for impact resistance against a 7.5 ton truck.







### CHARACTERISTICS

Materials	Steel
Treatment	Hot-dip galvanizing (anti-corrosion)
Thickness	20 mm   36 mm
Bollard diameter	250 mm   325 mm (ONE 50 <sup>EVO</sup> MODEL)
Bollard height	1000 mm
Civil works depth	750 mm

### OPERATION

The access is opened by a truck crane which takes the bollard head out of the casing and moves it to the storage area. A rolling cover as well as an armored closing plate are installed in place of the bollard head to allow the circulation of vehicles safely.

### ITS STRENGTHS

-  Very occasional closing/opening of an access
-  Closing plate
-  Resistant to a 7.5 T truck traveling from 48 to 80 km/h
-  Compliant with the French PMR decree

### ACCESSORIES & OPTIONALS

RAL color of your choice	optional
Customization of the sleeve	optional
LED light ring	optional





# MISTRAL

## REMOVABLE STEEL BOLLARDS AND POSTS

PERIMETER SECURITY





The **Mistral post or removable bollard** with a discreet and sober design is a cost-effective and simple solution to create a low-frequency access.

### CHARACTERISTICS

<b>Materials</b>	Steel
<b>Treatment</b>	Anti-corrosion protection with zinc-rich powder primer
<b>Thickness</b>	3 mm   6 mm
<b>Diameter*</b>	76   120   250
<b>Height*</b>	900 - 1200   500 - 550 - 750 - 950 - 1200   500 - 550 - 750

\* Contact us for other dimensions

### ITS STRENGTHS

-  Very occasional closing/opening of an access
-  Ideal as a complement to the G6N (Ø250)

### OPERATION

Combined with the Fixator® (Came Urbaco patent), the bollard can be removed without the need for tools: a simple wrench is all that is required. A locking system prevents unauthorized persons from opening the access. A turn of the wrench and the unlocked bollard can be removed from its housing. A cover put in place of the bollard allows to leave the passage free and the place clear.

Control your access with 3 steps:

- 1 Unlock
- 2 Turn
- 3 Remove





## FIXED STEEL BOLLARDS AND POSTS

# MISTRAL

The **Mistral bollard and post** with its sober, neutral design and its completely smooth surface with a flat head, fits discreetly into any site, whatever the architectural and urban design requirements. Its strong points are the discretion and efficiency in delimiting the ways.






### CHARACTERISTICS

<b>Materials</b>	Steel
<b>Treatment</b>	Anti-corrosion protection with zinc-rich powder primer
<b>Thickness</b>	3 mm   6 mm
<b>Diameter*</b>	76   120   250
<b>Height*</b>	900 - 1200   500 - 550 - 750 - 950 - 1200   500 - 550 - 750

\* Contact us for other dimensions

### ITS STRENGTHS

-  Definitely delimits and prohibits an access
-  Ideal as a complement to the G6N (Ø250)
-  Sober design, compatible with removable bollards

### ACCESSORIES & OPTIONALS

Retro-reflective band optional



# VENDÔME

## REMOVABLE STAINLESS STEEL BOLLARDS AND POSTS




The Vendôme removable post has a polished stainless steel finish, ideal for modern sites with contemporary architecture. A simple and cost-effective solution to create a low-frequency access.



### CHARACTERISTICS

<b>Materials</b>	304 or 326L stainless steel							
<b>Treatment</b>	Polished							
<b>Thickness</b>	2 mm							
<b>Diameter</b>	76	89	104	114	139	154	204	254
<b>Height</b>	500		750		1000		1200	

### ITS STRENGTHS

-  Occasional closing/opening of an access
-  Streamlined design, compatible with the fixed version
-  Simple manual operation

### OPERATION



Control your access with 3 steps:

- 1 Unlock
- 2 Turn
- 3 Remove



## FIXED STAINLESS STEEL BOLLARDS AND POSTS

# VENDÔME




The Vendôme fixed post has a polished stainless steel finish, ideal for modern sites with contemporary architecture. This solution integrates elegantly into the urban environment to delimit pedestrian areas.



CHARACTERISTICS	
Materials	304 or 326L stainless steel
Treatment	Polished
Thickness	2 mm
Diameter	76 89 104 114 139 154 204 254
Height	500 750 1000 1200

ACCESSORIES & OPTIONALS	
Domed head or flat head	to be chosen from
Retro-reflective band	optional
Mounting on a plate	optional
Reinforced: concrete filled rod	optional

### ITS STRENGTHS

-  Definitely delimits and prohibits an access
-  Streamlined design, compatible with removable bollards
-  Various options to choose from



RETRO-REFLECTIVE  
BAND



MOUNTING  
ON A PLATE



CONCRETE FILLED  
ROD

**RANGE**

**G6N**

**G30**

**RESISTANCE LEVEL**



**AUTOMATIC  
RETRACTABLE  
BOLLARDS**



**G6N**

**REMOVABLE  
BOLLARDS**



**MISTRAL\***

**FIXED  
BOLLARDS**



**MISTRAL\***

# OVERVIEW BOLLARD RANGE

## ONE30<sup>EVO</sup>



## ONE40<sup>EVO</sup>



## ONE50<sup>EVO</sup>



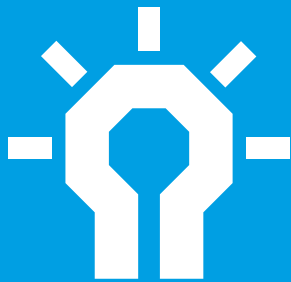
\* Impact resistance not determined

# CUSTOMIZED PROJECT SUPPORT

Experts offer a complete support to answer the most complex requests. Each project is carefully studied to propose the most appropriate solution. According to the specificities required, the development department designs tailor-made equipment.

A customized offer adapted to each individual's needs:

- Team of experts working daily with architects and design offices
- Adaptability to all requests thanks to a unique service, both in terms of development and execution.
- Total project support with a turnkey service
- A new service model that offers a fast and professional solution in a rapidly changing international technological environment.



## CAME URBACO KEY SKILLS



A man in a grey suit is seen from the back, looking at architectural plans on a table in a meeting room. Other people are partially visible in the background. A blue semi-transparent box is overlaid on the right side of the image, containing text and a list of services.

## PROJECT MANAGEMENT

CAME URBACO is specialized in the design and management of building projects and urban areas.

The "project" unit offers solutions adapted to all needs, even the most complex, in areas such as:

- Access control and security
- Management of traffic flows

Support during all phases of the project:

- Technical support and consulting services
- Project design
- Initial operation
- Installation

# TO GUIDE YOU PROJECT FEASIBILITY STUDY

**Document writer:** ..... **Date:** .....

**In the presence of:**

Name and Surname	Company or City	Contact details (e-mail, telephone number, etc.)

## Part1 : PROJECT BACKGROUND

**Project name** (project customer name): .....

**CAME URBACO customer:** .....

**Final Customer:** .....

**Call for Tenders:**

No  Yes, AO detail: .....

**User's budget** (if communicated by the customer): .....

**Confidence level** (% success rate): .....

**Decisive criterion:**

Deadline  Price  Technical solution  Maintenance |

**Start date of work:** .....

**Desired completion time:** .....

**Site:**

- New installation
  - Replacement of an existing installation
  - Updating of an existing installation (revenping)
  - Extension of a CAME URBACO installation
  - Extension of a competitor's installation
- Competitor's name:.....

Site name:.....

Number of accesses on this site: .....

**Service to be provided by CAME URBACO:**

- Civil Engineering
- Fitting
- Connection
- Initial operation
- System Configuration
- Training
- Customer hardware integration
- Technical audit

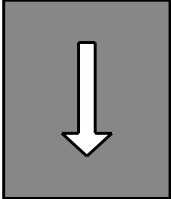
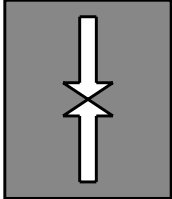
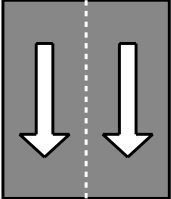
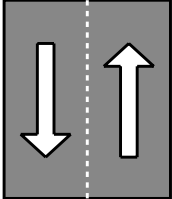
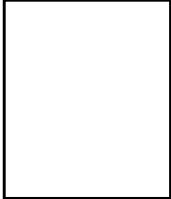
**Need:**

- Installation on:  Private site  Public area
- Purpose of access control:  Management of limited traffic in the area  Protection of people or areas

**PROJECT FEASIBILITY STUDY**

**Part 2 : OPERATION DESIRED BY THE USER**

**1/ Direction of travel:**

1 way 1 direction	1 way 2 directions	2 ways 2 parallel directions	2 ways 2 opposite directions	Other specify
				
<input type="checkbox"/> EOSC <input type="checkbox"/> EOSA	<input type="checkbox"/> ECSC <input type="checkbox"/> ECSA	<input type="checkbox"/> EC <input type="checkbox"/> <input type="checkbox"/> SC <input type="checkbox"/> <input type="checkbox"/> EA <input type="checkbox"/> <input type="checkbox"/> SA <input type="checkbox"/>	<input type="checkbox"/> EC <input type="checkbox"/> <input type="checkbox"/> SC <input type="checkbox"/> <input type="checkbox"/> EA <input type="checkbox"/> <input type="checkbox"/> SA <input type="checkbox"/>	<input type="checkbox"/> EC <input type="checkbox"/> <input type="checkbox"/> SC <input type="checkbox"/> <input type="checkbox"/> EA <input type="checkbox"/> <input type="checkbox"/> SA <input type="checkbox"/>

EOSC: Controlled entry or exit  
 ECSC: Controlled entry and exit  
 EOSA: Automatic entry or exit  
 ECSA: Automatic entry and exit  
 EC: Controlled entry  
 SC: Controlled exit  
 EA: Automatic entry  
 SA: Automatic exit

**2/ Distance between bollards and controller:** .....

**3/ Frequency of use per 24h:**

- < 50 cycles     
  > 50 cycles     
  Intensive use

**4/ Security device:**

- Magnetic loops     
  Bollard position lights     
  Other detection methods:.....

**5/ Bollard operation:**

- Remote hydraulic     
  On-board hydraulic     
  Pneumatic

**Preferred operation:**

Positive safety: in case of power failure, the bollard descends by gravity  
 Negative safety: in case of power failure, the bollard remains in its position or the position it was in before the power failure

- Positive security     
  Negative security     
  Negative security with manual release

**6/ Preferred access control:**

- |   |   |  |
|---|---|--|
| <input type="checkbox"/> Manual               | <input type="checkbox"/> Remote control | <input type="checkbox"/> Badge reader            |
| <input type="checkbox"/> Portable Key         | <input type="checkbox"/> Digicode       | <input type="checkbox"/> Visual / vocal intercom |
| <input type="checkbox"/> License plate reader | <input type="checkbox"/> Other          |  |

**7/ Centralization Project:**

- No   
  Yes   
  Subsequently   
  Immediately   
  Existing GTC (manufacturer: .....)

**8/ Interface:**

- |                                       |                                    |                                       |                             |                             |                                       |
|---------------------------------------|------------------------------------|---------------------------------------|-----------------------------|-----------------------------|---------------------------------------|
| <input type="checkbox"/> Fiber optics | <input type="checkbox"/> RJ45      | If fiber optics, type of connector:   |                             |                             |                                       |
| <input type="checkbox"/> Star         | <input type="checkbox"/> Ring      | <input type="checkbox"/> Other: ..... | <input type="checkbox"/> SC | <input type="checkbox"/> ST | <input type="checkbox"/> Other: ..... |
| <input type="checkbox"/> GSM          | <input type="checkbox"/> ADSL/VDSL |                                       |                             |                             |                                       |



**PROJECT FEASIBILITY STUDY**

Part 3 : **SITE SURVEY - conduct 1 study per site**



**LOCATION MAP MUST BE PROVIDED**

*Name or number of the site with number of accesses and location on the site map*



**Electric characteristics:**

Voltage:  110 V       230 V       380 V       Other: .....

Phase:  single-phase       triple phase with neutral       triple phase with neutral

Frequency:  50 Hz       60 Hz

**Legal constraints:**

Historic site       Commencement Notice       EP Coupling       Other: .....

**Environmental constraints:**

Dust      Suggest the installation of a control box in a technical room

Humidity (greater than 90%)      Using a hygrothermostat with the heater in the controller

Heat (greater than 50°C)      Propose greater ventilation for the controller

Cold (lower than 10°C)      Propose bollard and controller heaters

Saline environments      Propose the metallic option  
Propose stainless steel bollards and Totems if using an aluminium totem or roadside control panel

Homes      If installing the controller in a residential building or near an office, do not mount the control box on the wall

Pedestrian area      Offer the pedestrian safety option in the bollards (BOSECUPIETON)

Other: .....

**Lining:**

Paved       Concrete       Deactivated concrete       Asphalt       Other: .....

**Sloping street:**

Sloping lower than 10%       Sloping greater than 10% (value:.....)

**Subsoil-related constraints:** subject to compatibility with existing underground networks

Rising water *if yes connection to the EP network with pump to be recommended*       Pipes (water / sewer / gas / telephone,etc.)

High-voltage lines *if yes, what is the voltage: .....*       Cellars / Parking lots

**Type of vehicles that will use the access:**

Electrical vehicles       Long vehicles       Heavy vehicles < 7.5T

Heavy vehicles > 7.5T       Heavy vehicles > 3.5T       Other: .....



**RETRACTABLE BOLLARDS  
& FIXED BOLLARDS**

**G30**

HIGH SECURITY

**CITY 6<sup>EVO</sup>**

ACCESS CONTROL, GTC

**LE TOUQUET, FRANCE**



**RETRACTABLE, SEMI-AUTOMATIC  
& FIXED BOLLARDS**

**ONE<sup>EVO</sup> & G6<sup>EVO</sup>**

HIGH SECURITY

**CITY 6<sup>EVO</sup>**

ACCESS CONTROL, GTC

**AIX EN PROVENCE, FRANCE**



**RETRACTABLE  
& FIXED BOLLARDS**

**ONE40<sup>EVO</sup> & ONE50<sup>EVO</sup>**

HIGH SECURITY

**CITY 6<sup>EVO</sup>**

ACCESS CONTROL

**CANNES, FRANCE**

# REFERENCE CAME URBACO

Major player in the retractable bollard and centralized technical control market, **for more than 30 years**, CAME URBACO has seen its solutions deployed [throughout the world](#).

Vehicle access control and security systems for sensitive sites are present [in both small communities and larger areas](#).

TAKE A LOOK AT  
OUR LATEST PROJECTS

**RETRACTABLE,  
REMOVABLE & FIXED BOLLARDS**

**ONE40<sup>EVO</sup>**

HIGH SECURITY

**CITY 6<sup>EVO</sup>**

ACCESS CONTROL

***NICE, FRANCE***



**RETRACTABLE BOLLARDS**

**G6<sup>EVO</sup>**

**CITY 6<sup>EVO</sup> & CITY 1**

**SYGMA 3**

ACCESS CONTROL, GTC

***AMIENS, FRANCE***





**RETRACTABLE,  
DRILL & FIXED BOLLARDS**

**ONE 50 EVO**

HIGH SECURITY

**CITY 6<sup>EVO</sup>**

ACCESS CONTROL

**PARIS, FRANCE**



**RETRACTABLE  
& FIXED BOLLARDS**

**Reinforced G6<sup>EVO</sup>**

SAFETY

**ROME, ITALY**



**FIXED RETRACTABLE BOLLARDS**  
**G6<sup>EVO</sup>**

ACCESS CONTROL

**TROLLHÄTTAN, SWEDEN**

**RETRACTABLE  
& FIXED BOLLARDS**

**G6<sup>EVO</sup>**  
**Control Box**  
ACCESS CONTROL

***SBM MONTE CARLO, MONACO***



**RETRACTABLE BOLLARDS**

**G6<sup>EVO</sup>**  
**CITY 6<sup>EVO</sup>**  
**SYGMA 4**  
ACCESS CONTROL

***MEGÈVE, FRANCE***



**RETRACTABLE  
& FIXED BOLLARDS**

**G6<sup>EVO</sup>**  
**CITY 6<sup>EVO</sup> & CITY 1**  
**SYGMA 3**  
ACCESS CONTROL, GTC

***VIENNA, AUSTRIA***



A photograph of a grand, ornate building, likely a hotel or government building, with a prominent clock tower. The building is surrounded by palm trees and a paved plaza. In the foreground, there are several silver stanchions connected by chains, forming a queue line. A large blue circle is overlaid on the center of the image, containing the text "BE TECHNOLOGY. STAY HUMAN." in white, bold, sans-serif font.

**BE TECHNOLOGY.  
STAY HUMAN.**



## CORPORATE HEADQUARTERS

**CAME S.p.A.**  
Via Martiri della Libertà, 15  
31030 Dosson di Casier  
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