



CATALOG 2024

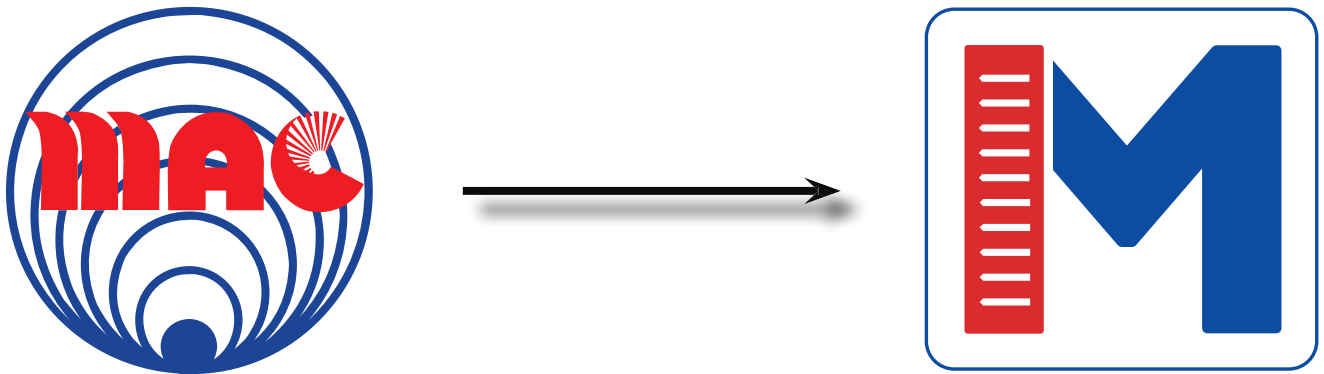


MAC SRL

MADE IN ITALY

GBR

NEW LOGO, SAME BRAND



Dear readers,

As you already know, innovation has always been a core value of our brand: we work constantly to develop new ways and new technologies to improve our products.

In that spirit, we decided to also renew our brand's image by adopting a new logo.

The inspiration behind the realization of our new logo comes from one of our most popular products: the *Tyre Killer*.

Its shape is in fact the main element of our logo.

The new logo is already present on our company documents and in our emails.

Concerning our products, it will appear following a more gradual approach.

THE FOUNDER

MAC srl, with its related products, is the result of years and years of experience in the field and experiments by its CEO Fausto Mezzanotti.

It all began in the early 1970s when Fausto, just over the age of 18, founded, together with two other partners, a company that dealt with electrical systems, thus starting to work as an installer.

In 1984 he decided to start his own business and opened a company that deals with automation, surveillance and access control systems.

Later, in the early 1990s, he began working internationally, personally installing automations around the world. Among the various projects, there are several embassies, banks and tourist complexes.

These projects, in addition to the alarm systems, also included the installation of bollards: it is precisely during those trips that Fausto, not satisfied with the quality of the products installed, began to think about designing his own bollard.

During the early 2000s, he decided to work mainly in Italy, collaborating with organizations and industries until the 2008 crisis.

At that point, Fausto decides to reinvent his company and start from scratch with the design of road bollards and anti-terrorism products.

Finally, in 2010, after various experiments, the actual construction of the bollards began: high quality products with attention to the smallest detail, designed and manufactured aiming for perfection.

THE COMPANY

FROM CENTRAL ITALY TO THE CENTER OF TRAFFIC MANAGEMENT SYSTEMS

MAC is the result of the merger between two companies: the "Manufacturer Automation Company" and "Mezzanotti Fausto Automazioni".

Our company is located in the Marche region and is made up of two floors: the ground floor is dedicated to production and our showroom, while the upper one is reserved for offices.

Anyone who would like to visit our company and see with their own eyes the love and dedication we put into our products is welcome.

We will recommend the product best suited to your needs and will lead you to discover the totally Made in Italy production.



ENVIRONMENT

Sustainability has always been one of the focal points of our company policy.

In fact, our commitment to building high quality products means that they require few spare parts over time and are completely replaced only after several decades.

Furthermore, we try to use the same component for multiple models, in order to have the same spare part and, therefore, allow the customer to have a minimum stock in case of repair or replacement of the part regardless of the model purchased.

What's more, we only use biodegradable oils for our hydraulic products.

Upon request, it is possible to configure the chosen model with an Ecolabel oil.



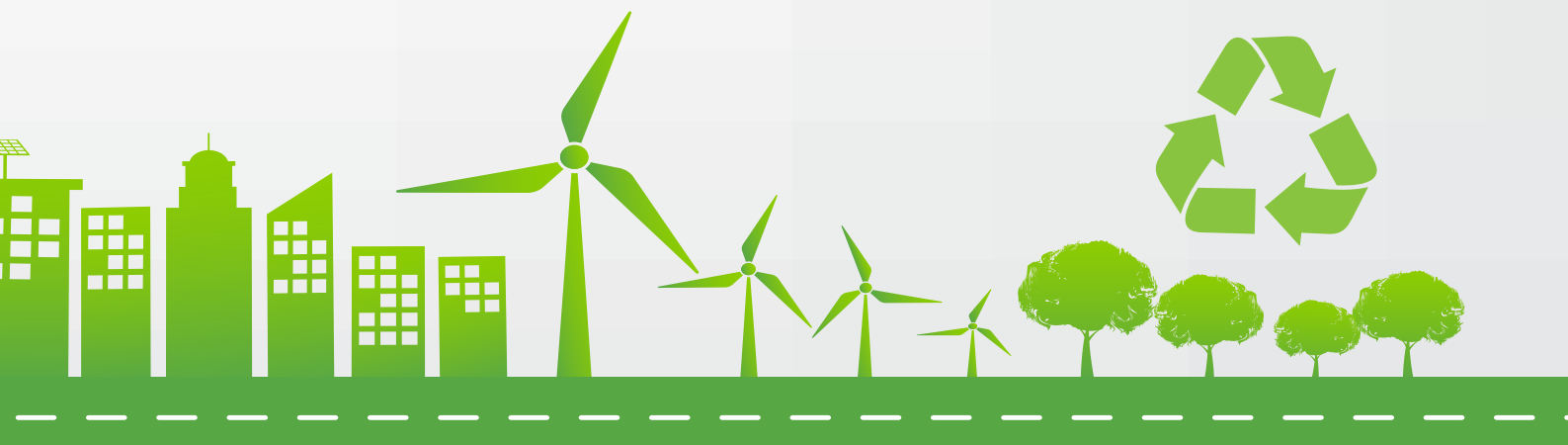
SUSTAINABILITY

In addition, all our LEDs have a maximum consumption of 20 mA, in order to avoid energy waste.

As regards transport, we are committed to collaborating with couriers who care about the environmental issue and are also committed to reducing and offsetting CO₂ emissions.

Finally, within the company, we pay particular attention to separate waste collection and print production documents on recycled paper.

We hope that our commitment and attention towards the environment, even if they are drops in an ocean, can one day make the difference for future generations.



MAC INSTALLATIONS



WORLDWIDE



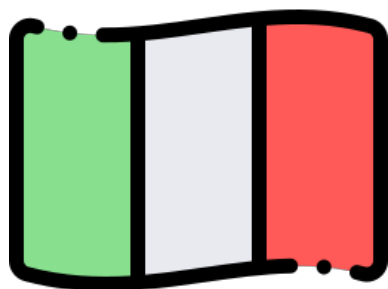
MAC INSTALLATIONS



WORLDWIDE

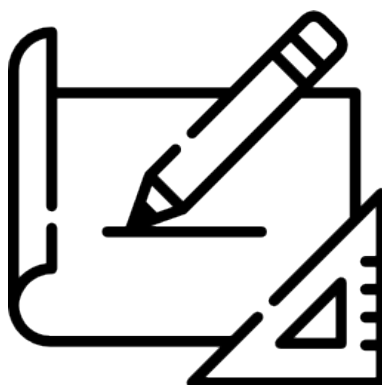


WHY



MADE IN ITALY

Our products are entirely designed, built and assembled in our company.



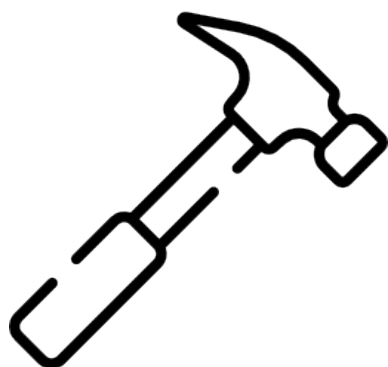
CUSTOM PROJECTS

We transform our customers' ideas into tailor-made products.



CUSTOM CONFIGURATION

Customized configuration according to customer needs.



HOT DIP GALVANIZATION

Various parts of our products are hot-dip galvanized. This treatment extends the life of the product and limits the formation of rust.



HYDRAULIC RELEASE

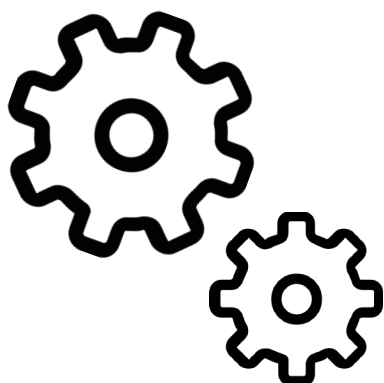
Our patent. If you remove the cap and install an electrical valve, it is possible to convert the purpose of the bollard from private use to public use.



PROTECTION RING

We have designed a ring welded to the base of the tube which prevents the latter from being scratched during the raising and lowering of the bollard, ensuring that the paint lasts for a long time.

CHOOSE US?



GEAR PUMP

The oil flow rate is constant despite the temperature.

The pump operates at a temperature between -20°C and $+80^{\circ}\text{C}$.

For lower temperatures, it is recommended to install a thermal resistor.



NON-SLIP EMBOSSING

The head and the platform of the bollard have an anti-slip embossing in order to avoid the deposit of rain and debris and, consequently, slipping accidents.



SENSITIVE HEAD

Our patent. The sensitive head detects a weight starting from 3kg and reverses the movement of the bollard.

It is recommended for pedestrian areas and, in general, for public areas.



CHECKS BEFORE SHIPPING

We test each product for three days, ensuring that the tests are successful before organizing the shipment. In this way, we minimize the risk of defects and possible problems that the customer might encounter once the product is received.



REAL-TIME CUSTOMER SERVICE

Specialized technicians and sales office at the customer's service from consultancy to after-sales assistance in Italian, English, Spanish and French on the main communication channels. We also offer both on-site and video training courses.



*LIFETIME WARRANTY

We offer lifetime warranty* for our automatic products. (*excluding parts subject to wear)

LIFETIME WARRANTY EXTENSION

MAC SRL OFFERS, TO ITS LICENSED DISTRIBUTORS, A FREE* LIFETIME WARRANTY EXTENSION ON ALL AUTOMATIC MODELS.

*(EXCLUDING PARTS SUBJECT TO WEAR)

NECESSARY DOCUMENTS

1. STATUS OF LICENSED DISTRIBUTOR ISSUED BY MAC SRL ON LETTERHEAD PAPER
2. MAINTENANCE SHEETS DULY FILLED FOR EACH MAINTENANCE CARRIED OUT, WITH PERIODICITY ACCORDING TO THE REGULATIONS IN FORCE (AVAILABLE IN THE INSTALLATION MANUAL)
3. MAINTENANCE INVOICES ISSUED TO THE CUSTOMER
4. ANNUAL MAINTENANCE SUBSCRIPTION SIGNED BY THE CUSTOMER
(COSTS, TERMS AND CONDITIONS AT THE DISCRETION OF THE DISTRIBUTOR)

NOTES AND RESTRICTIONS

- THE LEGAL WARRANTY OF EACH PRODUCT IS 24 (TWENTY-FOUR) MONTHS STARTING FROM THE DATE OF THE INVOICE
- THE (FREE) WARRANTY EXTENSION IS POSSIBLE YEAR BY YEAR, UPON SENDING THE DOCUMENTATION LISTED ABOVE
- THE WARRANTY EXTENSION EXCLUDES PARTS SUBJECT TO WEAR AND IT IS NOT IMPLEMENTED IN THE CASES INDICATED AT THE POINTS 7.4, 7.7, 7.9 AND 7.10 OF TERMS AND CONDITIONS
- THE WARRANTY EXTENSION EXCLUDES COSTS OF TRANSPORTATION AND LABOUR FOR ANY REPAIRS, ONLY THE INDIVIDUAL SPARE PARTS
- IF THE WARRANTY EXTENSION IS NOT APPLICABLE, TERMS AND CONDITIONS ARE IN FORCE

OUR CERTIFICATIONS

- ELECTROMAGNETIC COMPATIBILITY (2004/108/CE)
- D400 COMPRESSION (EN 124:1995)
- DURABILITY
- ELECTRICAL SAFETY (60204-1)
- ISO 9001:2015
- CRASH TEST M50 (V/7500[N3]/80/90:10.70)

SECO CERTIFICAZIONI

RAPPORTO DI PROVA
N. 308.91.E.1 del 02/04/2008

prove di compatibilità elettromagnetica in conformità alla Direttiva 2004/108/CE

Richiedente: **MEZZANOTTI FAUSTO AUTOMAZIONI**
Via Enrico Mattei, 9/11
61022 Morciola di Colbordolo (PU)

Nome dell'EUT: **Dissuasore Stradale**

Fase di progetto: **Prototipo finale**

Risultato del test: **POSITIVO**

Data inizio prove: 02/04/2008
Data fine prove: 02/04/2008

Il Responsabile Tecnico
Ing. Gianluca Campanesi

Il Tecnico Esecutore
Ing. Serafino Frongia

SECO CERTIFICAZIONI S.p.A. - Via Margutta, 228
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E-mail: info@seco.it - www.seco.it
C.A.P. 00187 Roma - P.IVA 01210580963

SECO CERTIFICAZIONI

RAPPORTO DI PROVA
N. 308.91.C.1 del 24/04/2008

Verifica della resistenza a compressione secondo la norma UNI EN 124:1995

Richiedente: **Mezzanotti Fausto Automazioni**
Via Enrico Mattei, 9/11
61022 MORCIOLA di COLBORDOLO (PU)

Prodotto: **Dissuasore retrattile idraulico**

Modello: **CSA 300**

Costruttore: **Mezzanotti Fausto Automazioni**
Via Enrico Mattei, 9/11
61022 MORCIOLA di COLBORDOLO (PU)

Risultato del test: **POSITIVO**

Il Responsabile Tecnico
Ing. Gianluca Campanesi

Il Responsabile Pratica
Ing. Roberto Ravasoli

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SECO CERTIFICAZIONI

RAPPORTO DI PROVA
N. 308.91.D.1 del 14/04/2009

TEST DI DURABILITA' Prove cicliche di durabilità

Richiedente: **Mezzanotti Fausto Automazioni**
Via Enrico Mattei, 9/11
61022 MORCIOLA di COLBORDOLO (PU)

Prodotto: **Dissuasore retrattile idraulico**

Modello: **CSA 300**

Costruttore: **Mezzanotti Fausto Automazioni**
Via Enrico Mattei, 9/11
61022 MORCIOLA di COLBORDOLO (PU)

Risultato del test: **CONFORME**

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SECO CERTIFICAZIONI

RAPPORTO DI PROVA
N. 308.91.I.1 del 19/02/2008

verifica delle sicurezza elettriche secondo la norma CEI EN 60204-1

Richiedente: **Mezzanotti Fausto Automazioni**
Via Enrico Mattei, 9/11
61022 MORCIOLA di COLBORDOLO (PU)

Prodotto: **Dissuasore retrattile idraulico**

Modello: **CSA 300**

Costruttore: **Mezzanotti Fausto Automazioni**
Via Enrico Mattei, 9/11
61022 MORCIOLA di COLBORDOLO (PU)

Risultato del test: **CONFORME**

Il Responsabile Tecnico
Ing. Gianluca Campanesi

Il Tecnico Esecutore
P.J. Serrano Longanesi

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IMQ
www.imq.it

CERTIFICATO N. 0647.2023

SI CERTIFICA CHE IL SISTEMA DI GESTIONE PER LA QUALITÀ DI
ME HEREBY CERTIFY THAT THE QUALITY MANAGEMENT SYSTEM OPERATED BY

MAC SRL

VIA ENRICO MATTEI COLBORDOLO 9 - 61022 VALLEFOGLIA (PU) Italy

UNITÀ OPERATIVE / OPERATIVE UNITS

VIA ENRICO MATTEI COLBORDOLO 9 - 61022 VALLEFOGLIA (PU) Italy

È CONFORME ALLA NORMA / IS IN COMPLIANCE WITH THE STANDARD

ISO 9001:2015

PER LE SEGUENTI ATTIVITÀ / FOR THE FOLLOWING ACTIVITIES

Progettazione e realizzazione di dissuasori stradali, barriere road blocker e tyre killer
Design and construction of road bollards, road blockers and tyre killer

SECO CERTIFICAZIONI S.p.A. - Via Margutta, 228
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ACCREDITED LABORATORY

CRASH TEST REPORT # IWA14-1/041/19

Test type: **IWA 14-1:2013 VSB system V/7200 [N3]/80/90:10.98**
PAS 68:2013 VSB system V/7500[N3]/80/90:10.70
ASTM F2656/F2656M-18a standard: Barrier Rating C750 - P3

Test item: **Antiterrorism hydraulic bollard mod. K275A-M50**

Client: **MAC S.r.l.**

Date of test: **2019/11/20**

Reference Standard
ISO 1684 24.3.2013
ISO PAS 68:2013
ASTM F2656/F2656M-18a

Official test report language
English

Number of pages including annex
78

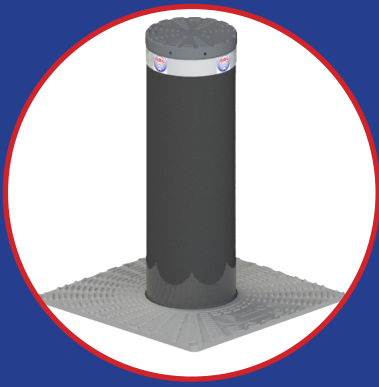
Date of report
2019/12/09

Test Scheme Responsible
Eng. Stefano Campanesi

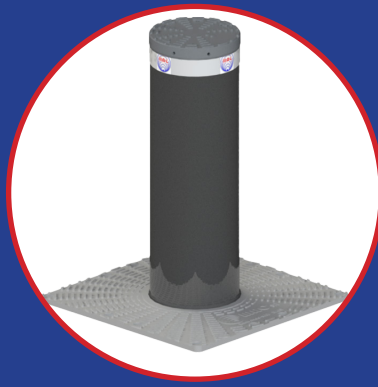
Test House Director
Eng. Stefano Campanesi

SUMMARY

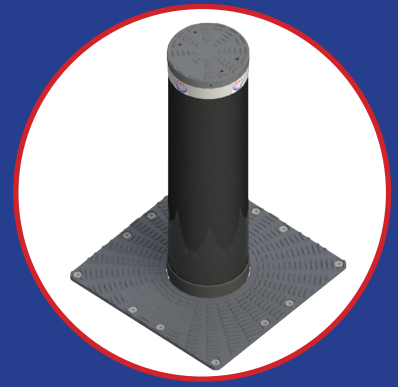
AUTOMATIC ANTI-TERRORISM BOLLARDS	19
FIXED ANTI-TERRORISM BOLLARDS	25
AUTOMATIC BOLLARDS	31
SEMI-AUTOMATIC BOLLARDS	41
MANUAL BOLLARDS	49
FIXED BOLLARDS	53
REMOVABLE BOLLARDS	67
ROAD BLOCKER	75
TYRE KILLER	87
BARRIERS	99
ELECTRIFIED COCKPITS	105
TRAFFIC LIGHTS	113
PARKING SYSTEMS	119
ACCESSORIES	125
ACCESSORIES KITS	135



K275A-M30



K275A-M40



K275A-M50

AUTOMATIC ANTI-TERRORISM BOLLARDS

SUITABLE FOR:

- PROTECTING SENSITIVE SITES SUCH AS EMBASSIES AND MILITARY AREAS
- HIGH SECURITY
- INTENSIVE USE

K275A-M50

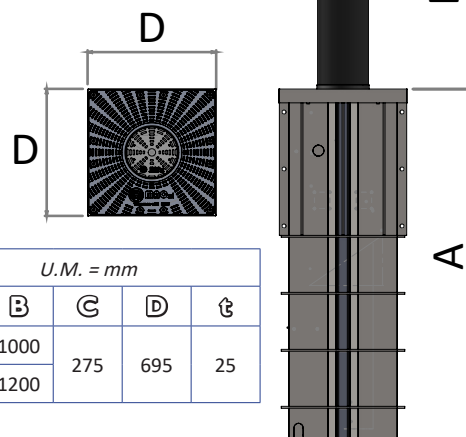


CRASH RATED



M50 CERTIFIED AUTOMATIC BOLLARD

- HYDRAULIC MOVEMENT
- BUILT-IN HYDRAULIC UNIT
- FORMWORK AND STRUCTURE HOT DIP GALVANIZED
- LED INCLUDED
- SQUARE LOCK 10X10
- 600 mm BURIED TUBE
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION



M50	U.M. = mm				
	A	B	C	D	ϕ
	1732	1000	275	695	25
	1932	1200			

		K275A-M50	K275A-M50 EFO	K275A-M50 I	K275A-M50 I EFO
THICKNESS OF THE TUBE	mm	25			
DIAMETER OF THE TUBE	mm	275			
MATERIAL OF THE TUBE		S335JRC		AISI 304	
TREATMENT AND FINISH OF THE TUBE		GALVANIZATION + POWDER PAINT		BRUSHED	
TREATMENT FORMWORK AND STRUCTURE		HOT DIP GALVANIZATION			
REFLECTIVE STRIP		•			
RESISTANCE TO BREAKAGE	J	2.000.000			
RESISTANCE TO DEFORMATION	J	750.000			
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000			
DAILY CYCLES INTENSIVE USE (INTERMITTENT CYCLE S3)	N°	2.400			
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	3.500.000			
MAXIMUM PRESSURE OF WORK	bar	140			
CAPACITY OF THE PUMP	L	14			
DEGREE OF PROTECTION OF THE PUMP	IP	67			
POWER ABSORBED	W	2 x 1.250			
POWER SUPPLY	Vac	230 / 380			
POWER SUPPLY OF THE LED	Vdc	24			
TEMPERATURE OF WORK (FROM -10 USE HEATER)	°C	-20 / + 80			
ROHS REQUIREMENTS		•			

• = standard equipment

K275A-M50 H1000		030562517	030562517E	030562557	030562557E
HEIGHT FROM THE GROUND	mm	1.000			
RAISING TIME	sec	5			
LOWERING TIME	sec	2 - 5			
RAISING TIME WITH EFO	sec	1 - 1,2			
WEIGHT	Kg	820	850	815	845
K275A-M50 H1200		030562518	030562518E	030562558	030562558E
HEIGHT FROM THE GROUND	mm	1.200			
RAISING TIME	sec	7			
LOWERING TIME	sec	2 - 6			
RAISING TIME WITH EFO	sec	1 - 1,2			
WEIGHT	Kg	890	920	885	915

K275A-M40

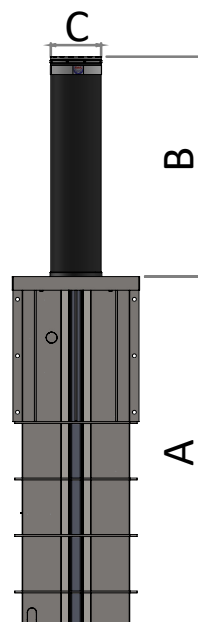
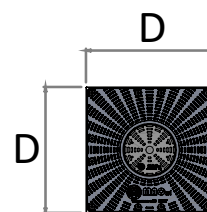


DESIGNED ACCORDING TO



M40 COMPLIANT AUTOMATIC BOLLARD

- HYDRAULIC MOVEMENT
- BUILT-IN HYDRAULIC UNIT
- FORMWORK AND STRUCTURE HOT DIP GALVANIZED
- LED INCLUDED
- SQUARE LOCK 10X10
- 500 mm BURIED TUBE
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION



M40	U.M. = mm				
	A	B	C	D	ϕ
	1532	900	275	695	16
	1632	1000			

		K275A-M40	K275A-M40 EFO	K275A-M40 I	K275A-M40 I EFO
THICKNESS OF THE TUBE	mm	16			
DIAMETER OF THE TUBE	mm	275			
MATERIAL OF THE TUBE		S335JRC		AISI 304	
TREATMENT AND FINISH OF THE TUBE		GALVANIZATION + POWDER PAINT		BRUSHED	
TREATMENT FORMWORK AND STRUCTURE		HOT DIP GALVANIZATION			
REFLECTIVE STRIP		•			
RESISTANCE TO BREAKAGE	J	1.200.000			
RESISTANCE TO DEFORMATION	J	700.000			
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000			
DAILY CYCLES INTENSIVE USE (INTERMITTENT CYCLE S3)	N°	2.400			
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	3.500.000			
MAXIMUM PRESSURE OF WORK	bar	140			
CAPACITY OF THE PUMP	L	7			
DEGREE OF PROTECTION OF THE PUMP	IP	67			
POWER ABSORBED	W	1.250			
POWER SUPPLY	Vac	230 / 380			
POWER SUPPLY OF THE LED	Vdc	24			
TEMPERATURE OF WORK (FROM -10 USE HEATER)	°C	-20 / + 80			
ROHS REQUIREMENTS		•			

• = standard equipment

K275A-M40 H900		030462016	030462016E	030462056	030462056E
HEIGHT FROM THE GROUND	mm	900			
RAISING TIME	sec	5			
LOWERING TIME	sec	2 - 5			
RAISING TIME WITH EFO	sec	1 - 1,2			
WEIGHT	Kg	650	680	660	690
K275A-M40 H1000		030462017	030462017E	030462057	030462057E
HEIGHT FROM THE GROUND	mm	1.000			
RAISING TIME	sec	6			
LOWERING TIME	sec	2 - 5			
RAISING TIME WITH EFO	sec	1 - 1,2			
WEIGHT	Kg	700	730	710	740

K275A-M30

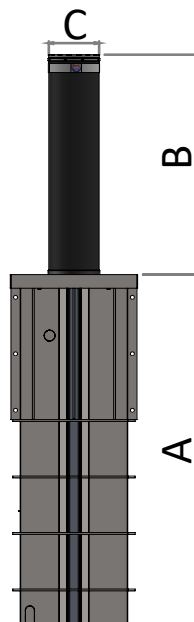
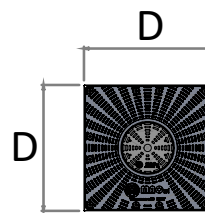


DESIGNED ACCORDING TO



M30 COMPLIANT AUTOMATIC BOLLARD

- HYDRAULIC MOVEMENT
- BUILT-IN HYDRAULIC UNIT
- FORMWORK AND STRUCTURE HOT DIP GALVANIZED
- LED INCLUDED
- SQUARE LOCK 10X10
- 400 mm BURIED TUBE
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION

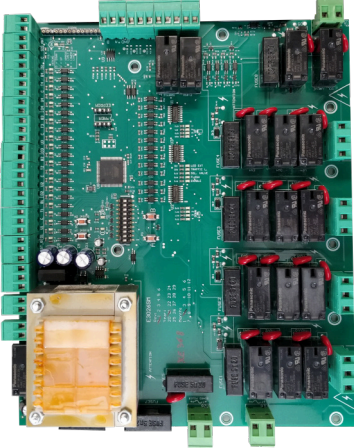
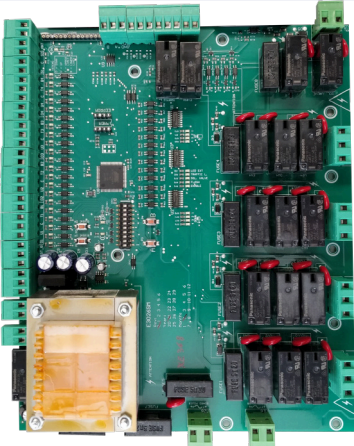


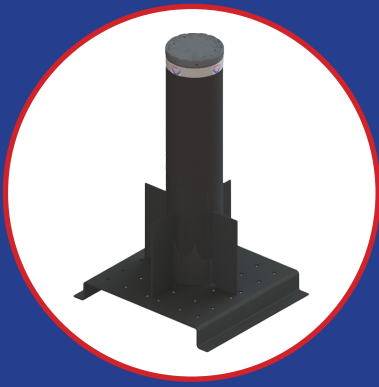
M30	U.M. = mm				
	A	B	C	D	ε
	1332	800	275	695	12,5
	1532	1000			

		K275A-M30	K275A-M30 EFO	K275A-M30 I	K275A-M30 I EFO
THICKNESS OF THE TUBE	mm	12,5			
DIAMETER OF THE TUBE	mm	275			
MATERIAL OF THE TUBE		S335JRC		AISI 304	
TREATMENT AND FINISH OF THE TUBE		GALVANIZATION + POWDER PAINT		BRUSHED	
TREATMENT FORMWORK AND STRUCTURE		HOT DIP GALVANIZATION			
REFLECTIVE STRIP		•			
RESISTANCE TO BREAKAGE	J	760.000			
RESISTANCE TO DEFORMATION	J	255.000			
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000			
DAILY CYCLES INTENSIVE USE (INTERMITTENT CYCLE S3)	N°	2.400			
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	3.500.000			
MAXIMUM PRESSURE OF WORK	bar	140			
CAPACITY OF THE PUMP	L	7			
DEGREE OF PROTECTION OF THE PUMP	IP	67			
POWER ABSORBED	W	1.250			
POWER SUPPLY	Vac	230 / 380			
POWER SUPPLY OF THE LED	Vdc	24			
TEMPERATURE OF WORK (FROM -10 USE HEATER)	°C	-20 / + 80			
ROHS REQUIREMENTS		•			

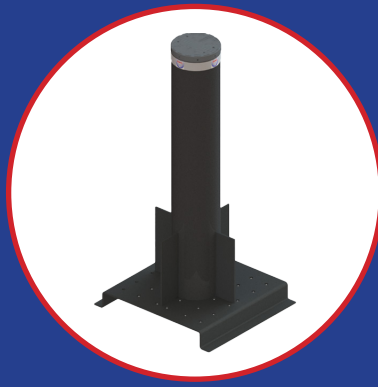
• = standard equipment

K275A-M30 H800		030361215	030361215E	030361255	030361255E
HEIGHT FROM THE GROUND	mm	800			
RAISING TIME	sec	4,5			
LOWERING TIME	sec	2 - 4,5			
RAISING TIME WITH EFO	sec	1 - 1,2			
WEIGHT	Kg	524	548	528	552
K275A-M30 H1000		030361217	030361217E	030361257	030361257E
HEIGHT FROM THE GROUND	mm	1.000			
RAISING TIME	sec	6,5			
LOWERING TIME	sec	2 - 5			
RAISING TIME WITH EFO	sec	1 - 1,2			
WEIGHT	Kg	655	685	660	690

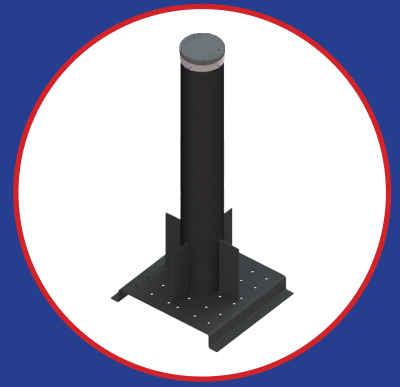
	BRAIN4SER electronic control unit for the management of three-phase bollards + FC repeater Electrical valve management relay Traffic light management relay Head light management relay Limit switch status duplicating card management 433 Mh radio included IP56 box included	1	5932271	
		2	5932272	
		3	5932273	
		4	5932274	
		5	5932275	
	BRAIN4SER electronic control unit for the management of three-phase bollards + FC repeater + EFO Electrical valve management relay Traffic light management relay Head light management relay Limit switch status duplicating card management 433 Mh radio included IP56 box included	1	5932281	
		2	5932282	
		3	5932283	
		4	5932284	
		5	5932285	
	Stainless steel coating INOX316 for K275A	H800	030569765	
		H900	030569766	
		H1000	030569767	
		H1200	030569768	
	Surcharge for color change of an- ti-terrorism bollard's tube. RAL of your choice Matte finish = OP Semi-gloss finish = SL Gloss finish = LU	OP	5051000306	
		SL	5051000307	
		LU	5051000308	



K275F-M50



K275F-M40



K275F-M30

FIXED ANTI-TERRORISM BOLLARDS

SUITABLE FOR:

- PROTECTING SENSITIVE SITES SUCH AS EMBASSIES AND MILITARY AREAS
- PROHIBITING THE TRANSIT OF VEHICLES IN PEDESTRIAN AREAS
- HIGH SECURITY

K275F-M50



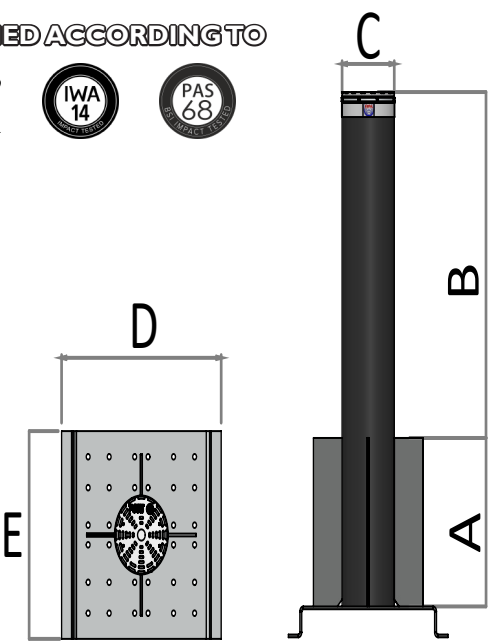
DESIGNED ACCORDING TO



M50 FIXED COMPLIANT BOLLARD

▫ 600 mm BURIED TUBE

M50	U.M. = mm					
	A	B	C	D	E	t
	600	1000 1200	275	835	740	25



K275F-M50		K275F-M50 I	
THICKNESS OF THE TUBE	mm	25	
DIAMETER OF THE TUBE	mm	275	
MATERIAL OF THE TUBE		S335JRC	AISI 304
TREATMENT OF THE TUBE		HOT DIP GALVANIZATION	
FINISH OF THE TUBE		POWDER PAINT	BRUSHED
REFLECTIVE STRIP		•	
RESISTANCE TO BREAKAGE	J	2.000.000	
RESISTANCE TO DEFORMATION	J	750.000	

• = standard equipment

K275F-M50 H1000		034562517		034562557	
WEIGHT	Kg	330		335	
K275F-M50 H1200		034562518		034562558	
WEIGHT	Kg	392		397	

K275F-M40



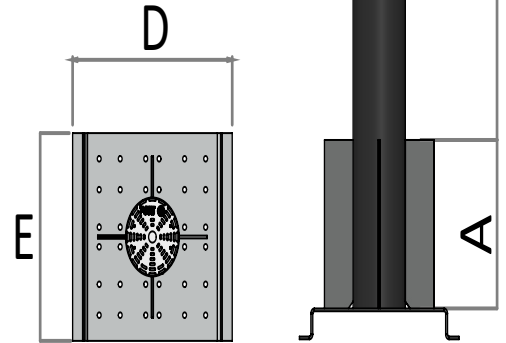
DESIGNED ACCORDING TO



M40 FIXED COMPLIANT BOLLARD

▫ 500 mm BURIED TUBE

M40	U.M. = mm					
	A	B	C	D	E	t
	500	900 1000	275	835	740	16



K275F-M40		K275F-M40 I
THICKNESS OF THE TUBE	mm	16
DIAMETER OF THE TUBE		275
MATERIAL OF THE TUBE		S335JRC
TREATMENT OF THE TUBE		HOT DIP GALVANIZATION
FINISH OF THE TUBE		POWDER PAINT
REFLECTIVE STRIP		•
RESISTANCE TO BREAKAGE		1.200.000
RESISTANCE TO DEFORMATION		700.000

• = standard equipment

K275F-M40 H900		034962016	034962056
WEIGHT	Kg	295	300
K275F-M40 H1000		034962017	034962057
WEIGHT	Kg	315	320

K275F-M30



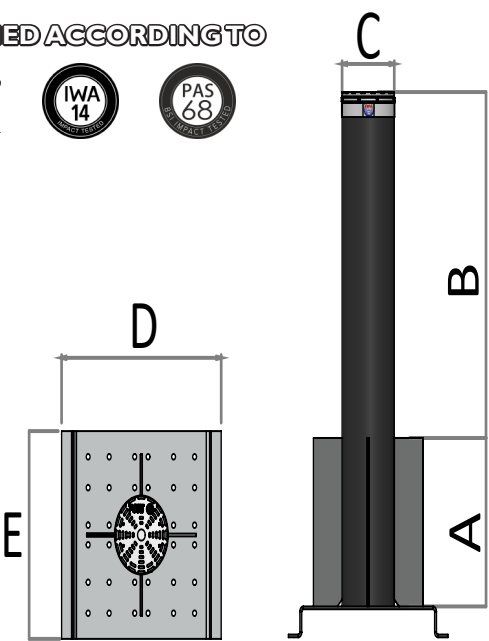
DESIGNED ACCORDING TO



M30 FIXED COMPLIANT BOLLARD

▫ 400 mm BURIED TUBE

M30	U.M. = mm					
	A	B	C	D	E	t
	400	800 1000	275	835	740	12,5



		K275F-M30	K275F-M30 I
THICKNESS OF THE TUBE	mm	12,5	12
DIAMETER OF THE TUBE	mm	275	
MATERIAL OF THE TUBE		S335JRC	AISI 304
TREATMENT OF THE TUBE		HOT DIP GALVANIZATION	
FINISH OF THE TUBE		POWDER PAINT	BRUSHED
REFLECTIVE STRIP		•	
RESISTANCE TO BREAKAGE	J	760.000	
RESISTANCE TO DEFORMATION	J	255.000	

• = standard equipment

K275F-M30 H800		034461215		034461255	
WEIGHT	Kg	265	270		
K275F-M30 H1000		034461217		034461257	
WEIGHT	Kg	298	303		



Surcharge for color change of anti-terrorism bollard's tube.
RAL of your choice

Matte finish = OP
Semi-gloss finish = SL
Gloss finish = LU

OP	5051000306	
SL	5051000307	
LU	5051000308	



J275A
C275A



J200A
C200A



C140A

AUTOMATIC BOLLARDS

SUITABLE FOR:

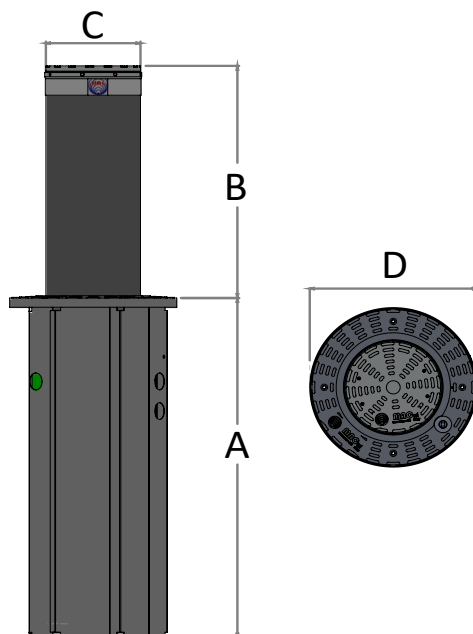
- DELIMITING TRANSIT IN PEDESTRIAN AREAS
- PARKING ACCESS CONTROL
- DRIVEWAY ACCESS CONTROL

J275A



AUTOMATIC BOLLARD

- HYDRAULIC MOVEMENT
- BUILT-IN HYDRAULIC UNIT
- FORMWORK AND STRUCTURE HOT DIP GALVANIZED
- LED INCLUDED
- SQUARE LOCK 10X10
- 400 mm BURIED TUBE
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION



U.M. = mm			
A	B	C	D
1231	800	275	484
1431	1000		

		J275A	J275A I
THICKNESS OF THE TUBE	mm	12,5	12
DIAMETER OF THE TUBE	mm	275	
MATERIAL OF THE TUBE		S335JRC	AISI 304
TREATMENT AND FINISH OF THE TUBE		GALVANIZATION + POWDER PAINT	BRUSHED
TREATMENT FORMWORK AND STRUCTURE		HOT DIP GALVANIZATION	
REFLECTIVE STRIP		•	
RESISTANCE TO BREAKAGE	J	760.000	770.000
RESISTANCE TO DEFORMATION	J	255.000	265.000
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000	
DAILY CYCLES INTENSIVE USE		2.400	
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE		1.500.000	
MAXIMUM PRESSURE OF WORK	bar	30	
CAPACITY OF THE PUMP	L	4	
DEGREE OF PROTECTION OF THE PUMP	IP	67	
POWER ABSORBED	W	550	
POWER SUPPLY	Vac	230V 50HZ	
POWER SUPPLY OF THE LED	Vdc	24	
TEMPERATURE OF WORK	°C	-20 / + 80	
ROHS REQUIREMENTS		•	

• = standard equipment

J275A H800		030961215	030961255
HEIGHT FROM THE GROUND	mm	800	
RAISING TIME	sec	8,4	
LOWERING TIME	sec	7,2	
WEIGHT	Kg	210	220
J275A H1000		030961217	030961257
HEIGHT FROM THE GROUND	mm	1.000	
RAISING TIME	sec	10,5	
LOWERING TIME	sec	9,4	
WEIGHT	Kg	245	260

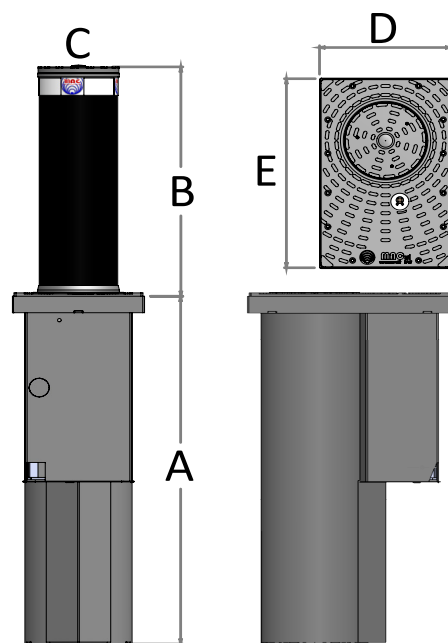
J200A



AUTOMATIC BOLLARD

- HYDRAULIC MOVEMENT
- BUILT-IN HYDRAULIC UNIT
- FORMWORK AND STRUCTURE HOT DIP GALVANIZED
- LED INCLUDED
- SQUARE LOCK 10X10
- 400 mm BURIED TUBE
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION

U.M. = mm				
A	B	C	D	E
1254	800	200	328	508
1454	1000			



J200A		
THICKNESS OF THE TUBE	mm	12.5
DIAMETER OF THE TUBE	mm	200
MATERIAL OF THE TUBE		S335JRC
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT
TREATMENT FORMWORK AND STRUCTURE		HOT DIP GALVANIZATION
REFLECTIVE STRIP		•
RESISTANCE TO BREAKAGE	J	380.000
RESISTANCE TO DEFORMATION	J	115.000
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000
DAILY CYCLES INTENSIVE USE		2.400
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE		1.500.000
MAXIMUM PRESSURE OF WORK	bar	30
CAPACITY OF THE PUMP	L	5
DEGREE OF PROTECTION OF THE PUMP	IP	67
POWER ABSORBED	W	500
POWER SUPPLY	Vac	230V 50HZ
POWER SUPPLY OF THE LED	Vdc	24
TEMPERATURE OF WORK	°C	-20 / + 80
ROHS REQUIREMENTS		•

• = standard equipment

J200A H800		030951215
HEIGHT FROM THE GROUND	mm	800
RAISING TIME	sec	8,4
LOWERING TIME	sec	7,2
WEIGHT	Kg	165
J200A H1000		030951217
HEIGHT FROM THE GROUND	mm	1.000
RAISING TIME	sec	10,5
LOWERING TIME	sec	9,4
WEIGHT	Kg	190

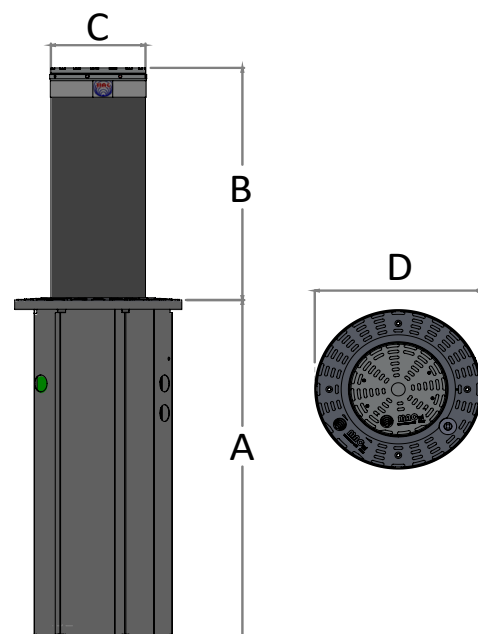
C275A



AUTOMATIC BOLLARD

- HYDRAULIC MOVEMENT
- BUILT-IN HYDRAULIC UNIT
- FORMWORK AND STRUCTURE HOT DIP GALVANIZED
- LED INCLUDED
- SQUARE LOCK 10X10
- 200 mm BURIED TUBE
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION

U.M. = mm			
A	B	C	D
731	500	275	484
931	700		
1031	800		



		C275A	C275A	C275A I	C275A I
THICKNESS OF THE TUBE	mm	12,5	4	12	4
DIAMETER OF THE TUBE	mm	275			
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI 304	
TREATMENT AND FINISH OF THE TUBE		GALVANIZATION + POWDER PAINT		BRUSHED	
TREATMENT FORMWORK AND STRUCTURE		HOT DIP GALVANIZATION			
REFLECTIVE STRIP		•			
RESISTANCE TO BREAKAGE	J	482.000	327.000	482.000	327.000
RESISTANCE TO DEFORMATION	J	60.000	55.000	60.000	55.000
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000			
DAILY CYCLES INTENSIVE USE	N°	2.400			
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	1.500.000			
MAXIMUM PRESSURE OF WORK	bar	30			
CAPACITY OF THE PUMP	L	4 - 5			
DEGREE OF PROTECTION OF THE PUMP	IP	67			
POWER ABSORBED	W	500			
POWER SUPPLY	Vac	230V 50HZ			
POWER SUPPLY OF THE LED	Vdc	24			
TEMPERATURE OF WORK	°C	-20 / + 80			
ROHS REQUIREMENTS		•			

• = standard equipment

C275A H500		030161212	030160402	030161252	030160452
HEIGHT FROM THE GROUND	mm	500			
RAISING TIME	sec	4,2			
LOWERING TIME	sec	3,7			
WEIGHT	Kg	123	87	133	93
C275A H700		030161214	030160404	030161254	030160454
HEIGHT FROM THE GROUND	mm	700			
RAISING TIME	sec	5,7			
LOWERING TIME	sec	4,8			
WEIGHT	Kg	160	104	170	108
C275A H800		030161215	030160405	030161255	030160455
HEIGHT ON THE GROUND	mm	800			
RAISING TIME	sec	6,6			
LOWERING TIME	sec	5,3			
WEIGHT	Kg	170	117	180	125

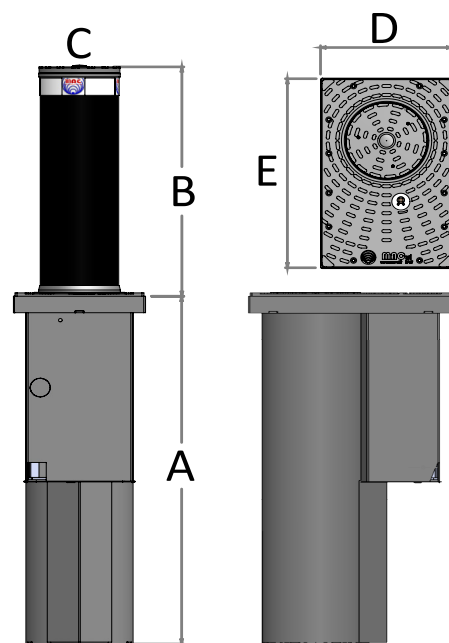
C200A



AUTOMATIC BOLLARD

- HYDRAULIC MOVEMENT
- BUILT-IN HYDRAULIC UNIT
- FORMWORK AND STRUCTURE HOT DIP GALVANIZED
- LED INCLUDED
- SQUARE LOCK 10X10
- 200 mm BURIED TUBE
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION

U.M. = mm				
A	B	C	D	E
731	500	200	328	508
931	700			
1031	800			



		C200A	C200A	C200A I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	200		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
TREATMENT FORMWORK AND STRUCTURE		HOT DIP GALVANIZATION		
REFLECTIVE STRIP		•		
RESISTANCE TO BREAKAGE	J	242.000	111.000	180.000
RESISTANCE TO DEFORMATION	J	20.000	7.000	10.000
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000		
DAILY CYCLES INTENSIVE USE	N°	2.400		
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	1.500.000		
MAXIMUM PRESSURE OF WORK	bar	30		
CAPACITY OF THE PUMP	L	4 - 5		
DEGREE OF PROTECTION OF THE PUMP	IP	67		
POWER ABSORBED	W	500		
POWER SUPPLY	Vac	230V 50HZ		
POWER SUPPLY OF THE LED	Vdc	24		
TEMPERATURE OF WORK	°C	-20 / + 80		
ROHS REQUIREMENTS		•		

• = standard equipment

C200A H500		030151212	030150402	030150452
HEIGHT FROM THE GROUND	mm	500		
RAISING TIME	sec	4,2		
LOWERING TIME	sec	3,7		
WEIGHT	Kg	98	68	74
C200A H700		030151214	030150404	030150454
HEIGHT FROM THE GROUND	mm	700		
RAISING TIME	sec	5,7		
LOWERING TIME	sec	4,8		
WEIGHT	Kg	117	74	80
C200A H800		030151215	030150405	030150455
HEIGHT ON THE GROUND	mm	800		
RAISING TIME	sec	6,6		
LOWERING TIME	sec	5,3		
WEIGHT	Kg	125	77	83

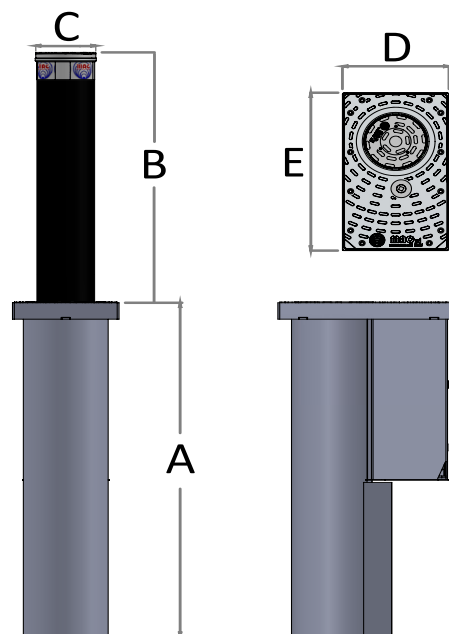
C140A



AUTOMATIC BOLLARD

- HYDRAULIC MOVEMENT
- BUILT-IN HYDRAULIC UNIT
- FORMWORK AND STRUCTURE HOT DIP GALVANIZED
- LED INCLUDED
- SQUARE LOCK 10X10
- 200 mm BURIED TUBE
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION

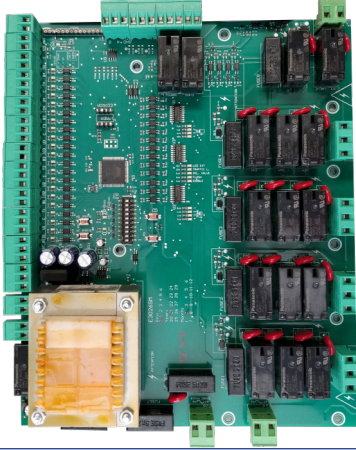
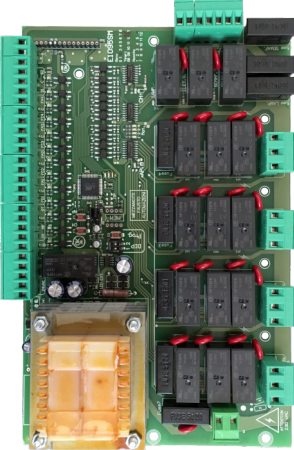
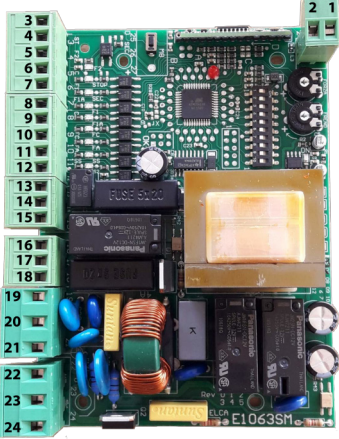
U.M. = mm				
A	B	C	D	E
731	500	140	260	443
931	700			



		C140A	C140A	C140A I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	140		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
TREATMENT FORMWORK AND STRUCTURE		HOT DIP GALVANIZATION		
REFLECTIVE STRIP		•		
RESISTANCE TO BREAKAGE	J	112.000	56.000	70.000
RESISTANCE TO DEFORMATION	J	5.000	3.000	4.000
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000		
DAILY CYCLES INTENSIVE USE	N°	2.400		
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	1.500.000		
MAXIMUM PRESSURE OF WORK	bar	30		
CAPACITY OF THE PUMP	L	4 - 5		
DEGREE OF PROTECTION OF THE PUMP	IP	67		
POWER ABSORBED	W	500		
POWER SUPPLY	Vac	230V 50HZ		
POWER SUPPLY OF THE LED	Vdc	24		
TEMPERATURE OF WORK	°C	-20 / + 80		
ROHS REQUIREMENTS		•		

• = standard equipment

C140A H500		030141212	030140402	030140452
HEIGHT FROM THE GROUND	mm	500		
RAISING TIME	sec	4,2		
LOWERING TIME	sec	3,7		
WEIGHT	Kg	75	51	56
C140A H700		030141214	030140404	030140454
HEIGHT FROM THE GROUND	mm	700		
RAISING TIME	sec	5,7		
LOWERING TIME	sec	4,8		
WEIGHT	Kg	86	63	68

	BRAIN4SER electronic control unit that can manage n. 4 BRAIN4SER in RS485 (1 master + 3 slaves) max 16 bollards simultaneously. Separate power supply power / electronics 433 Mh radio included Box 46x38x13 cm IP56 included		5050008500	
	BRAIN4 electronic control unit for the management of 4 bollards 433 Mh radio included 38x30x12 cm IP56 box included		5050008602	
	BRAIN1 electronic control unit for the management of 1 bollard 433 Mh radio included Box 19x14x7 cm IP56 included		5050008615	
	Patent for obstacle detection system starting from 3 Kg: the bollard, once the obstacle is detected, reverses its movement. Modification to be requested at the time of order.	C140	50651335009	
		C200	50651336009	
		C275	50651338009	

	Closing cap of the buried formwork, useful when the bollard comes extracted for maintenance or other	C140	5050220000	
		C200	5050210000	
		C275	5050300009	
	316 Stainless Steel Coating for C275	H500	5050300302	
		H700	5050300304	
		H800	5050300305	
	Cylinder lock to protect manual release. Available single or in groups.	1	5050001827-01	
		2	5050001827-02	
		3	5050001827-03	
		4	5050001827-04	
		5	5050001827-05	
	Key for square lock 10x10		7000051	

	Cylinder lock with security card for key reproduction to protect manual release. Available single or in groups.	1	5050001830-01	
		2	5050001830-02	
		3	5050001830-03	
		4	5050001830-04	
		5	5050001830-05	
	Additional key for cylinder lock. To be requested when ordering.		6910000113330	
	Triangular lock 11M Firefighters Standard France		5050001811	
	Key for triangular lock 11M Firefighters Standard France		7000070	



C275G



C200G



C140G

SEMI-AUTOMATIC BOLLARDS

SUITABLE FOR:

- DELIMITING TRANSIT IN PEDESTRIAN AREAS
- PLACES WHERE THERE IS NO ELECTRICAL POWER
- NON-INTENSIVE USE

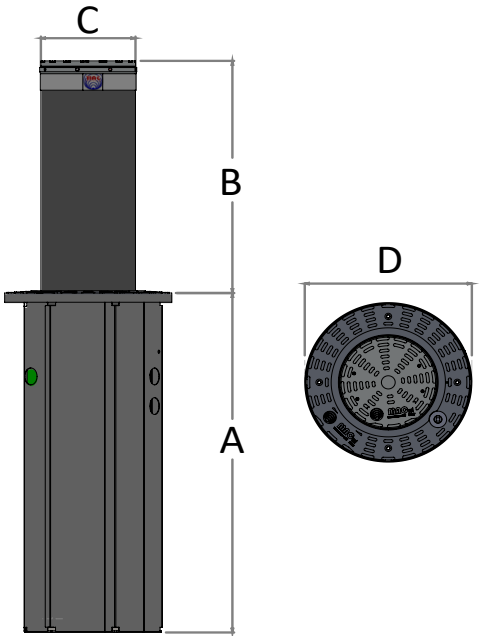
C275G



SEMI AUTOMATIC BOLLARD

- GAS SPRING MOVEMENT
- FORMWORK AND STRUCTURE HOT DIP GALVANIZED
- HEXAGONAL LOCK
- 200 mm BURIED TUBE
- CUSTOM CONFIGURATION

U.M. = mm			
A	B	C	D
731	500	275	484
931	700		
1031	800		



		C275G	C275G	C275G I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	275		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
TREATMENT FORMWORK AND STRUCTURE		HOT DIP GALVANIZATION		
REFLECTIVE STRIP		•		
RESISTANCE TO BREAKAGE	J	482.000	270.000	290.000
RESISTANCE TO DEFORMATION	J	60.000	30.000	50.000
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000		

• = standard equipment

C275G H500		033161212	033160402	033160452
WEIGHT	Kg	100	72	78
C275G H700		033161214	033160404	033160454
WEIGHT	Kg	140	94	74
C275G H800		033161214	033160405	033160455
WEIGHT	Kg	160	106	74

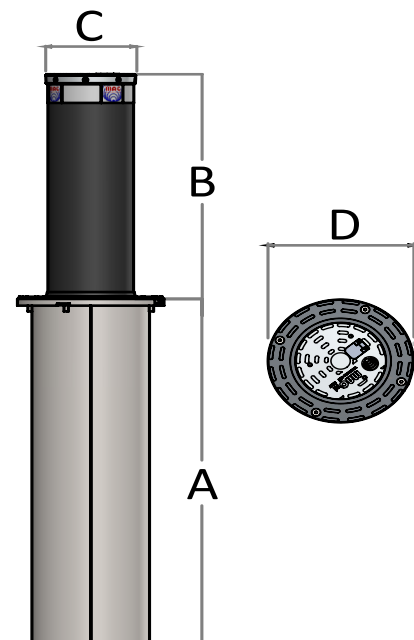
C200G



SEMI AUTOMATIC BOLLARD

- GAS SPRING MOVEMENT
- FORMWORK AND STRUCTURE HOT DIP GALVANIZED
- HEXAGONAL LOCK
- 200 mm BURIED TUBE
- CUSTOM CONFIGURATION

U.M. = mm			
A	B	C	D
749	500	200	337
949	700		



		C200G	C200G	C200G I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	200		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
TREATMENT FORMWORK AND STRUCTURE		HOT DIP GALVANIZATION		
REFLECTIVE STRIP		•		
RESISTANCE TO BREAKAGE	J	242.000	111.000	180.000
RESISTANCE TO DEFORMATION	J	15.000	5.000	10.000
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000		

• = standard equipment

C200G H500		033151212	033150402	033150452
WEIGHT	Kg	90	43	48
C200G H700		033151214	033150404	033150454
WEIGHT	Kg	110	51	56

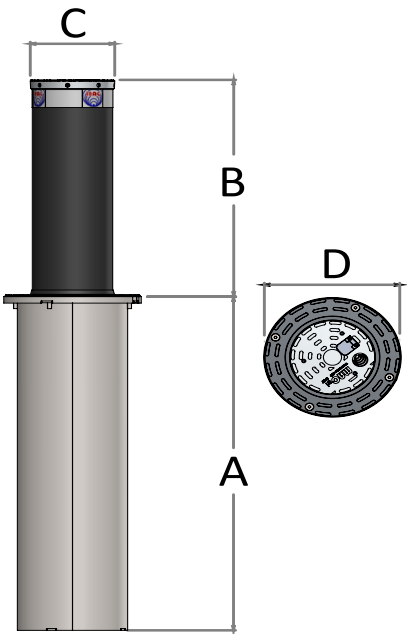
C140G



SEMI AUTOMATIC BOLLARD

- GAS SPRING MOVEMENT
- FORMWORK AND STRUCTURE HOT DIP GALVANIZED
- HEXAGONAL LOCK
- 200 mm BURIED TUBE
- CUSTOM CONFIGURATION

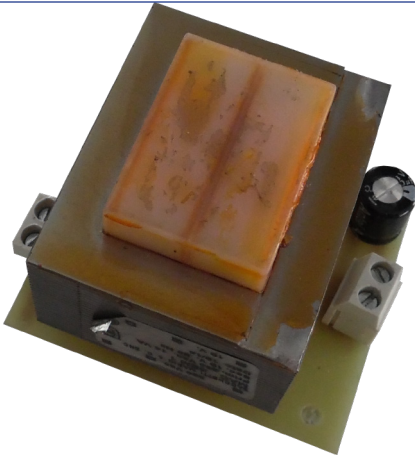
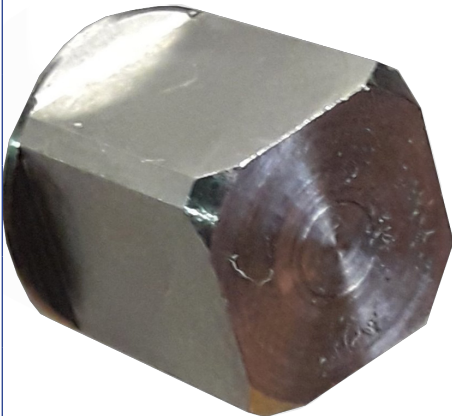
U.M. = mm			
A	B	C	D
749	500	140	278
949	700		



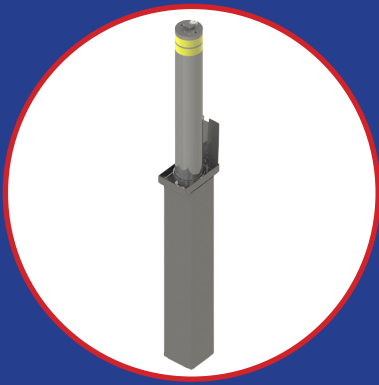
		C140G	C140G	C140G I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	140		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
TREATMENT FORMWORK AND STRUCTURE		HOT DIP GALVANIZATION		
REFLECTIVE STRIP		•		
RESISTANCE TO BREAKAGE	J	112.000	56.000	70.000
RESISTANCE TO DEFORMATION	J	5.000	3.000	4.000
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000		

• = standard equipment

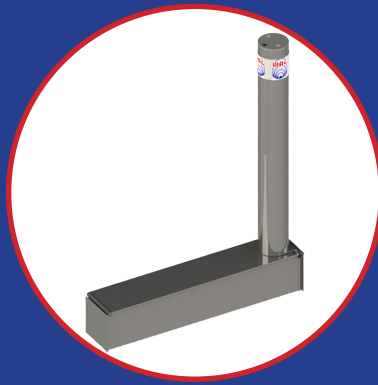
C140G H500		033141212	033140402	033140452
WEIGHT	Kg	70	31	37
C140G H700		033141214	033140404	033140454
WEIGHT	Kg	81	39	44

	220 Vac power supply 24Vdc 300 mA output Max 1 power supply every 3 bollards		5050000670	
	Kit of 8 resin-coated LEDs Consumption 20 mA		5050000662	
	11M triangular lock Firefighters standards France		5050001810	
	Square lock 10x10		5050001809	

	11M triangular lock key Firefighters standards France		7000070	
	Square lock key 10x10		7000051	
	Lock with pin cylinder supplied with 3 keys		5050001814	



C80M



C80M-RIB

MANUAL BOLLARDS

SUITABLE FOR:

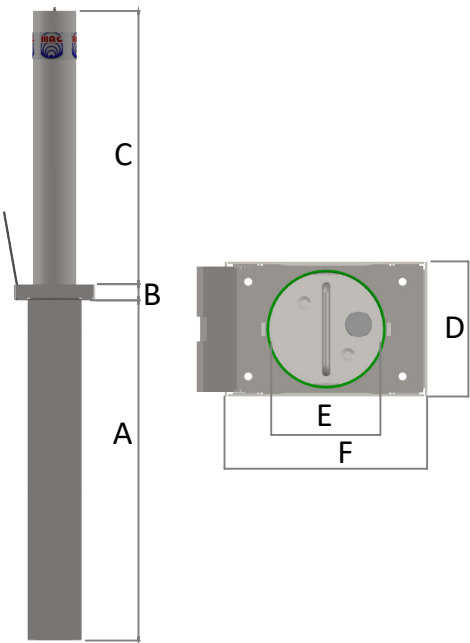
- PROHIBITING THE TRANSIT OF VEHICLES IN PEDESTRIAN AREAS
- PLACES WHERE THERE IS NO ELECTRICAL POWER
- DELIMITING PUBLIC AND PRIVATE BUILDINGS

C80M



MANUAL BOLLARD

- AVAILABLE IN GROUPS OF 10 PIECES
- LOCK
- CUSTOM CONFIGURATION



U.M. = mm					
A	B	C	D	E	F
630	30	505	100	Ø 80	150

C80M I		
THICKNESS OF THE TUBE	mm	2,5
DIAMETER OF THE TUBE	mm	80
MATERIAL OF THE TUBE		AISI304
TREATMENT AND FINISH OF THE TUBE		BRUSHED
REFLECTIVE STRIP		•
BREAKOUT RESISTANCE	J	20.000
IMPACT RESISTANCE	J	2.500

• = standard equipment

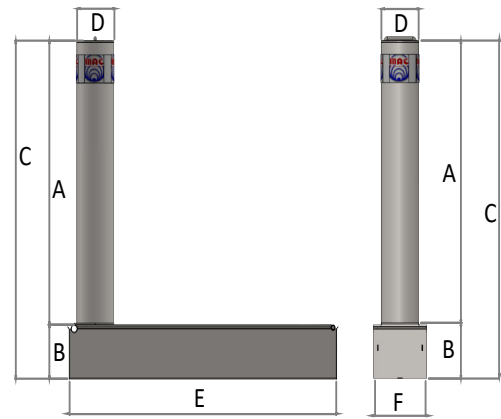
C80M H500		033920252
WEIGHT	Kg	10

C80M-RIB



MANUAL BOLLARD

- AVAILABLE IN GROUPS OF 10 PIECES
- LOCK
- CUSTOM CONFIGURATION



U.M. = mm					
A	B	C	D	E	F
500	100	600	Ø 80	572	112

C80M-RIB I		
THICKNESS OF THE TUBE	mm	2,5
DIAMETER OF THE TUBE	mm	80
MATERIAL OF THE TUBE		AISI304
TREATMENT AND FINISH OF THE TUBE		BRUSHED
REFLECTIVE STRIP		•
BREAKOUT RESISTANCE	J	20.000
IMPACT RESISTANCE	J	2.500

• = standard equipment

C80M-RIB H500		033820252
WEIGHT	Kg	10



C275F / F-I



C200F / F-I



C140F / F-I



C275F-E



C200F-E



C140F-E

FIXED BOLLARDS

SUITABLE FOR:

- PROHIBITING THE TRANSIT OF VEHICLES IN PEDESTRIAN AREAS
- DELIMITING AND PROTECTING PUBLIC BUILDINGS
- INTEGRATION WITH URBAN FURNISHINGS

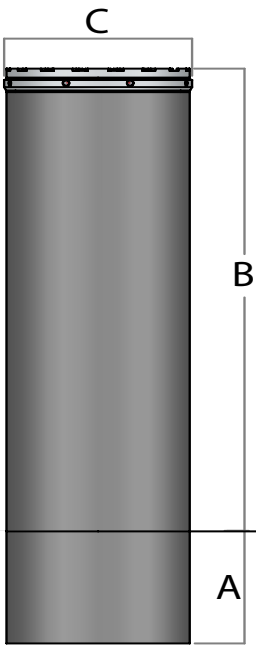
C275F



FIXED BOLLARD BY BRICKWORK

- 200 mm BURIED TUBE
- CUSTOM CONFIGURATION

U.M. = mm		
A	B	C
200	500	275
	700	



		C275F	C275F	C275F I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	275		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
REFLECTIVE STRIP		•		
BREAKOUT RESISTANCE	J	482.000	270.000	290.000
IMPACT RESISTANCE	J	60.000	30.000	50.000

• = standard equipment

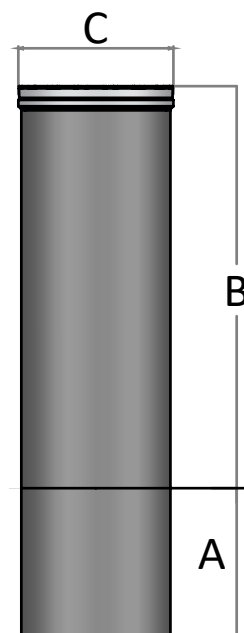
C275F H500		034861212	034860402	034860452
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	28	19	23
C275F H500		034361212	034360402	034360452
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	61	22	26
C275F H700		034861214	034860404	034860454
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	75	26	31
C275F H700		034361214	034360404	034360454
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	78	29	34

C200F



FIXED BOLLARD BY BRICKWORK

- 200 mm BURIED TUBE
- CUSTOM CONFIGURATION



U.M. = mm		
A	B	C
200	500	200
	700	

		C200F	C200F	C200F I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	200		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
REFLECTIVE STRIP		•		
BREAKOUT RESISTANCE	J	242.000	111.000	180.000
IMPACT RESISTANCE	J	15.000	5.000	10.000

• = standard equipment

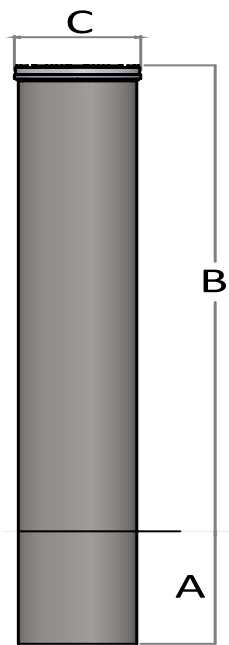
C200F H500		034851212	034850402	034850452
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	32	11	13
C200F H500		034351212	034350402	034350452
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	35	14	16
C200F H700		034851214	034850404	034850454
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	48	16	18
C200F H700		034351214	034350404	034350454
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	51	19	21

C140F



FIXED BOLLARD BY BRICKWORK

- 200 mm BURIED TUBE
- CUSTOM CONFIGURATION



U.M. = mm		
A	B	C
200	500	140
	700	

		C140F	C140F	C140F I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	140		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
REFLECTIVE STRIP		•		
BREAKOUT RESISTANCE	J	112.000	56.000	70.000
IMPACT RESISTANCE	J	5.000	3.000	4.000

• = standard equipment

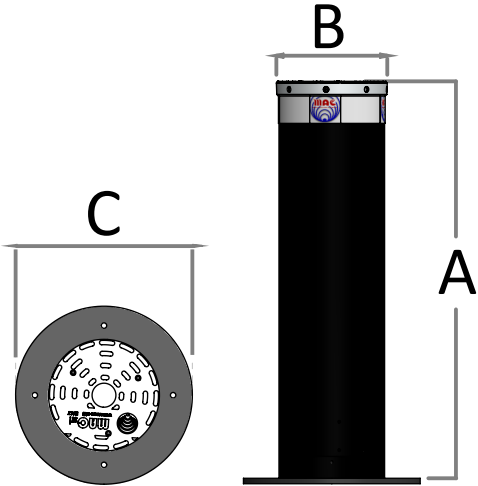
C140F H500		034841212	034840402	034840452
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	23	5	10
C140F H500		034341212	034340402	034340452
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	26	8	13
C140F H700		034841214	034840404	034840454
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	35	10	15
C140F H700		034341214	034340404	034340454
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	38	13	18

C275F-E



FIXED BOLLARD BY EXTERNAL FLANGE

▫ CUSTOM CONFIGURATION



U.M. = mm		
A	B	C
500	275	471
700		

		C275F-E	C275F-E	C275F-E I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	275		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
REFLECTIVE STRIP		•		
BREAKOUT RESISTANCE	J	386.000	180.000	200.000
IMPACT RESISTANCE	J	20.000	9.000	10.000

• = standard equipment

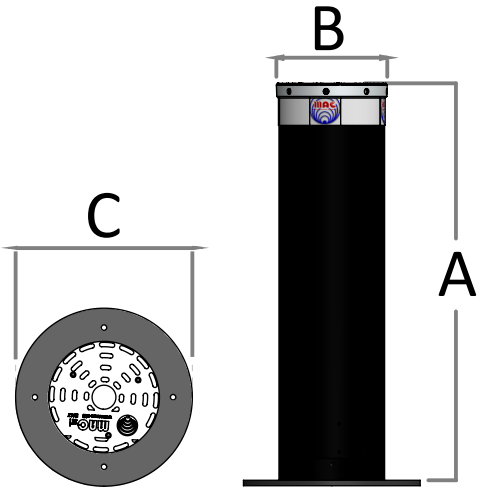
C275F-E H500		034761212	034760402	034760452
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	58	19	22
C275F-E H500		034261212	034260402	034260452
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	61	22	24
C275F-E H700		034761214	034760404	034760454
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	77	28	26
C275F-E H700		034261214	034260404	034260454
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	80	31	33

C200F-E



FIXED BOLLARD BY EXTERNAL FLANGE

▫ CUSTOM CONFIGURATION



U.M. = mm		
A	B	C
500	200	326
700		

		C200F-E	C200F-E	C200F-E I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	200		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
REFLECTIVE STRIP		•		
BREAKOUT RESISTANCE	J	194.000	89.000	93.000
IMPACT RESISTANCE	J	12.000	4.000	7.000

• = standard equipment

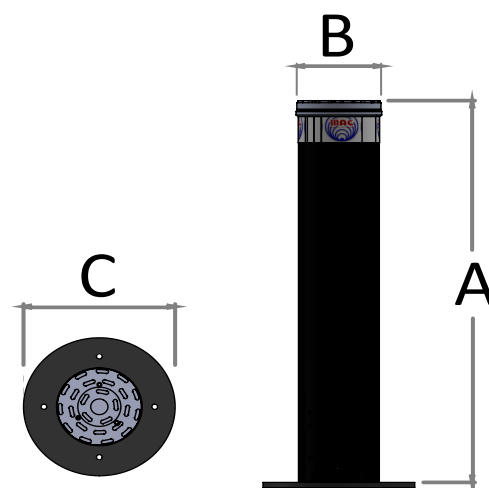
C200F-E H500		034751212	034750402	034750452
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	32	11	13
C200F-E H500		034251212	034250402	034250452
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	35	14	16
C200F-E H700		034751214	034750404	034750454
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	48	17	19
C200F-E H700		034251214	034250404	034250454
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	51	20	22

C140F-E



FIXED BOLLARD BY EXTERNAL FLANGE

▫ CUSTOM CONFIGURATION



U.M. = mm		
A	B	C
500	140	264
700		

		C140F-E	C140F-E	C140F-E I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	140		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
REFLECTIVE STRIP		•		
BREAKOUT RESISTANCE	J	90.000	45.000	79.000
IMPACT RESISTANCE	J	4.000	2.000	3.000

• = standard equipment

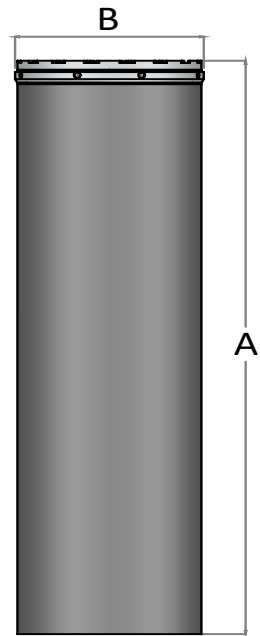
C140F-E H500		034741212	034740402	034740452
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	23	7	9
C140F-E H500		034241212	034240402	034240452
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	26	8	10
C140F-E H700		034741214	034740404	034740454
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	32	11	13
C140F-E H700		034241214	034240404	034240454
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	35	14	16

C275F-I



FIXED BOLLARD BY INTERNAL FLANGE

▫ CUSTOM CONFIGURATION



U.M. = mm	
A	B
500	275
700	

		C275F	C275F-I	C275F-I I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	275		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
REFLECTIVE STRIP		•		
BREAKOUT RESISTANCE	J	337.000	157.000	175.000
IMPACT RESISTANCE	J	18.000	8.000	10.000

• = standard equipment

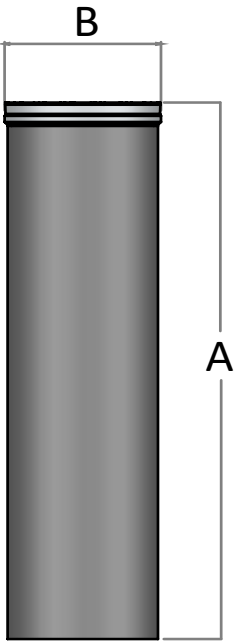
C275F-I H500		034661212	034660402	034660452
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	58	19	23
C275F-I H500		034161212	034160402	034160452
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	61	22	26
C275F-I H700		034661214	034660404	034660454
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	75	26	31
C275F-I H700		034161214	034160404	034160454
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	78	29	34

C200F-I



FIXED BOLLARD BY INTERNAL FLANGE

▫ CUSTOM CONFIGURATION



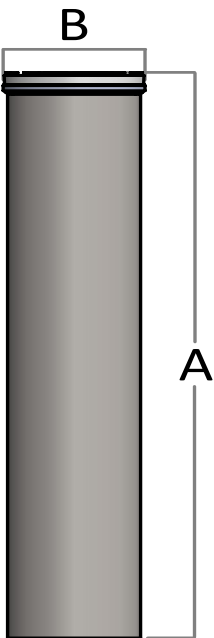
U.M. = mm	
A	B
500	200
700	

		C200F-I	C200F-I	C200F-I I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	200		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
REFLECTIVE STRIP		•		
BREAKOUT RESISTANCE	J	169.000	72.000	85.000
IMPACT RESISTANCE	J	10.000	3.000	5.000

• = standard equipment

C200F-I H500		034651212	034650402	034650452
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	32	11	13
C200F-I H500		034151212	034150402	034150452
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	35	14	16
C200F-I H700		034651214	034650404	034650454
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	51	19	25
C200F-I H700		034151214	034150404	034150454
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	54	22	24

C140F-I



FIXED BOLLARD BY INTERNAL FLANGE

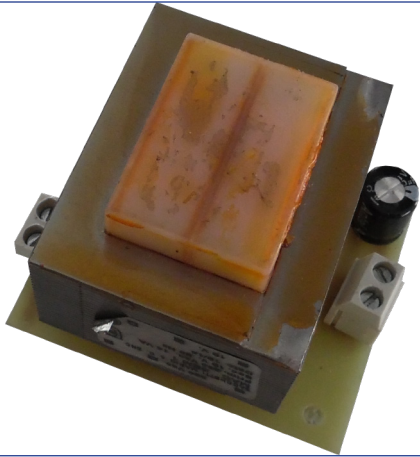
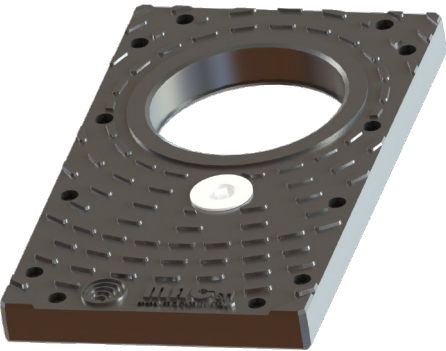
▫ CUSTOM CONFIGURATION

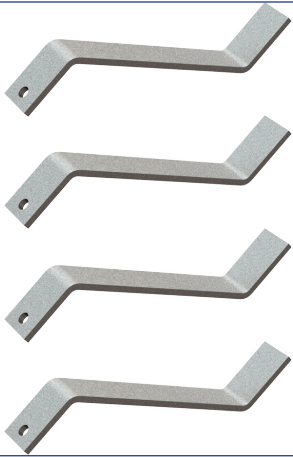
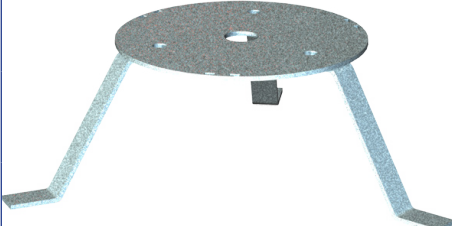
U.M. = mm	
A	B
500	140
700	

		C140F-I	C140F-I	C140F-I I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	140		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
REFLECTIVE STRIP		•		
BREAKOUT RESISTANCE	J	79.000	39.000	50.000
IMPACT RESISTANCE	J	4.000	2.000	3.000

• = standard equipment

C140F-I H500		034641212	034640402	0346640452
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	23	5	7
C140F-I H500		034141212	034140402	034140452
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	26	8	10
C140F-I H700		034641214	034640404	034640454
WEIGHT OF THE BOLLARD WITH FLAT HEAD	Kg	32	9	11
C140F-I H700		034141214	034140404	034140454
WEIGHT OF THE BOLLARD WITH ALUMINIUM HEAD	Kg	35	12	14

	220 Vac power supply 24Vdc 300 mA output Max 1 power supply every 3 deterrents		5050000670	
	Kit of 8 resin-coated LEDs Consumption 20 mA		5050000662	
	Round aluminum platform. Ideal for making fixed bollards aesthetically the same as automatic or semi-automatic models	140	5050050451	
		200	5050060451	
		275	5050110451	
	Rectangular aluminum platform. Ideal for making fixed bollards ae- sthetically the same as automatic or semi-automatic models	140	5050220451	
		200	5050210453	

	Useful clamps for fixing the fixed bollards, as well as increasing their resistance.		5050000203	
	Formwork for F-E models Base to be walled in The platform remains level with the floor, without protrusions.	140	5050090006	
		200	5050100006	
		275	5050110005	
	Formwork for F-E models Base to be walled in The platform protrudes 2 cm above ground level	140	5050090004	
		200	5050100004	
		275	5050110004	
	Formwork for F-I models Base to be walled in	140	5050090003	
		200	5050100003	
		275	5050110002	



C275R



C200R



C140R

REMOVABLE BOLLARDS

SUITABLE FOR:

- PROHIBITING THE TRANSIT OF VEHICLES IN PEDESTRIAN AREAS
- DELIMITING AND PROTECTING PUBLIC BUILDINGS
- NON-PERMANENT INSTALLATIONS

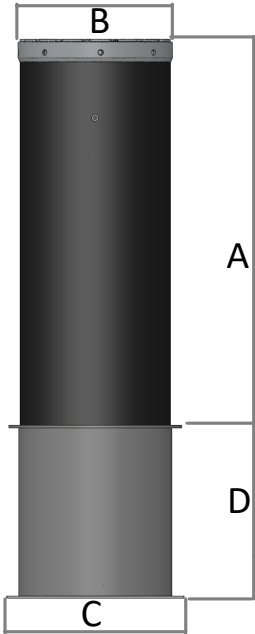
C275R



REMOVABLE BOLLARD

- HEXAGONAL LOCK
- ALUMINIUM HEAD
- FORMWORK INCLUDED
- CUSTOM CONFIGURATION

U.M. = mm			
A	B	C	D
500	275	315	314
700			



		C275R	C275R	C275R I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	275		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
REFLECTIVE STRIP		•		
BREAKOUT RESISTANCE	J	482.000	327.000	327.000
IMPACT RESISTANCE	J	60.000	55.000	55.000

• = standard equipment

C275R H500		032461212	032460402	032460452
WEIGHT	Kg	61	22	24
C275R H700		032461214	032460404	032460454
WEIGHT	Kg	78	29	31

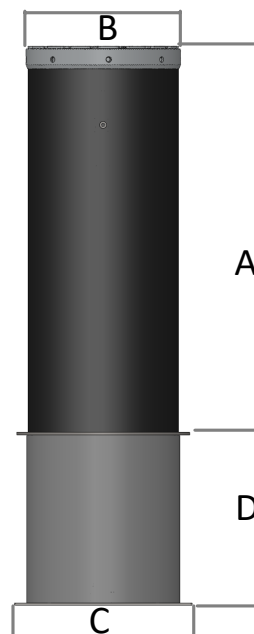
C200R



REMOVABLE BOLLARD

- HEXAGONAL LOCK
- ALUMINIUM HEAD
- FORMWORK INCLUDED
- CUSTOM CONFIGURATION

U.M. = mm			
A	B	C	D
500	200	245	314
700			



		C200R	C200R	C200R I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	200		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
REFLECTIVE STRIP		•		
BREAKOUT RESISTANCE	J	242.000	111.000	180.000
IMPACT RESISTANCE	J	30.000	10.000	10.000

• = standard equipment

C200R H500		032451212	032450402	032450452
WEIGHT	Kg	35	14	16
C200R H700		032451214	032450404	032450454
WEIGHT	Kg	51	19	21

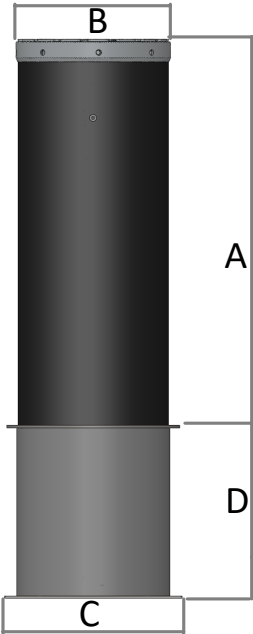
C140R



REMOVABLE BOLLARD

- HEXAGONAL LOCK
- ALUMINIUM HEAD
- FORMWORK INCLUDED
- CUSTOM CONFIGURATION

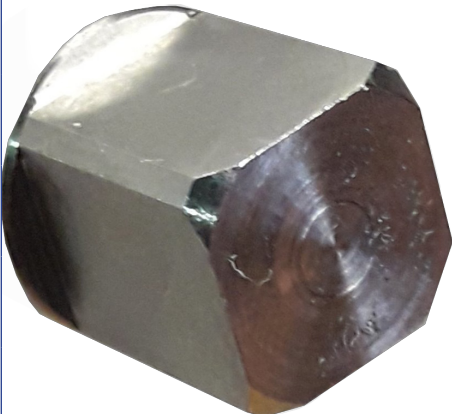
U.M. = mm			
A	B	C	D
500	140	185	314
700			



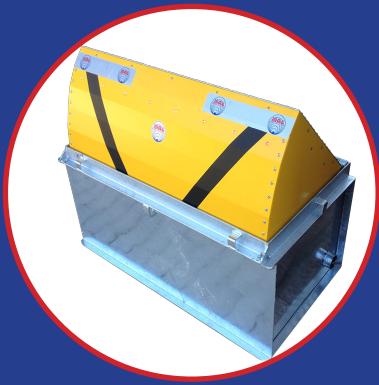
		C140R	C140R	C140R I
THICKNESS OF THE TUBE	mm	12,5	4	4
DIAMETER OF THE TUBE	mm	140		
MATERIAL OF THE TUBE		S335JRC	S235JRC	AISI304
TREATMENT AND FINISH OF THE TUBE		HOT DIP GALVANIZATION + POWDER PAINT		BRUSHED
REFLECTIVE STRIP		•		
BREAKOUT RESISTANCE	J	112.000	56.000	70.000
IMPACT RESISTANCE	J	7.500	5.000	5.000

• = standard equipment

C140R H500		032441212	032440402	032340452
WEIGHT	Kg	26	8	10
C140R H700		032441214	032440404	032440454
WEIGHT	Kg	35	10	15

	11M triangular lock key Firefighters standards France		7000070	
	Square lock key 10x10		7000051	
	11M triangular lock Firefighters standards France	H500	5050001805-C5	
		H700	5050001805-C7	
	Square lock 10x10	H500	5050001804-C5	
		H700	5050001804-C7	

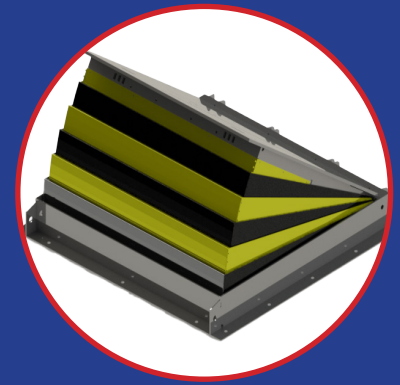
	Lock with pin cylinder supplied with 3 keys	H500	5050001806-C5	
		H700	5050001806-C7	
	Lock to protect manual release. Available single or in groups	H500	5050001807-C5	
		H700	5050001807-C7	
	Additional key for cylinder lock. To be requested at the moment of the order.		6910000113330	



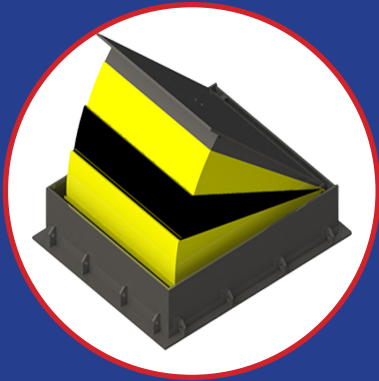
TITANO



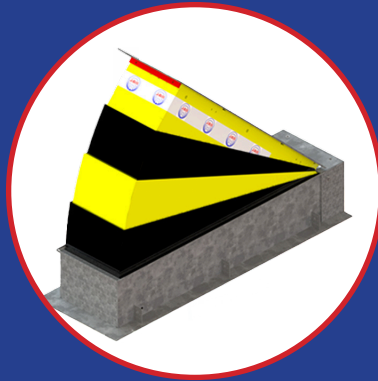
CRONO P300



CRONO P115



MRB600



MRB300

ROAD BLOCKER

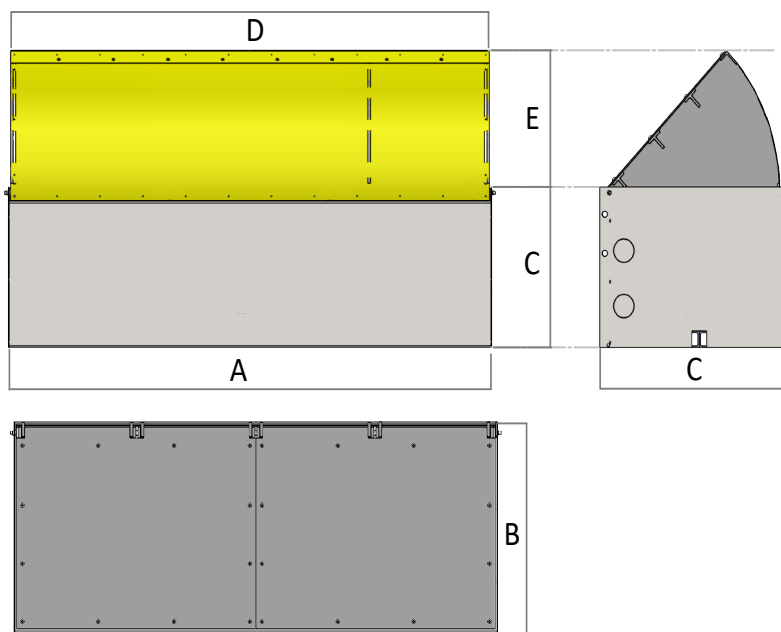
SUITABLE FOR:

- PROTECTING SENSITIVE PLACES SUCH AS EMBASSIES AND MILITARY SITES
- PROTECTING PUBLIC AND PRIVATE BUILDINGS
- HIGH SECURITY



AUTOMATIC ROAD BLOCKER

- HYDRAULIC MOVEMENT
- HYDRAULIC PISTON INCLUDED
- LED
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION



U.M. = mm				
A	B	C	D	E
L+26	1176	815	L-36	700
L+26	1650	1200	L-36	1000

		H700	H1000
MATERIAL OF MOVING PLATE		S235JRC	
TREATMENT OF FORMWORK, STRUCTURE AND MOVING PART		HOT DIP GALVANIZATION	
FINISH OF MOVING PLATE		POWDER PAINT	
REFLECTIVE STRIP		•	
BREAKOUT RESISTANCE	J	1.800.000	2.200.000
IMPACT RESISTANCE	J	200.000	
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000	
DAILY CYCLES INTENSIVE USE	N°	2.400	
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	1.500.000	
MAXIMUM PRESSURE OF WORK	bar	40-80	
BUILT-IN HYDRAULIC PUMP		OPTIONAL	
DEGREE OF PROTECTION OF THE PUMP	IP	55	
POWER ABSORBED	W	1.100 - 3.000	
POWER SUPPLY	Vac	380V 50 HZ 3F+N	
POWER SUPPLY OF THE LED	Vdc	24	
TEMPERATURE OF WORK	°C	-20 +80	
ROHS REQUIREMENTS		•	
RAISING TIME	sec	10	
LOWERING TIME	sec	7	

• = standard equipment

L 2.000 mm		0352401120	0352701120
Kg		725	1.035
L 3.000 mm		0352401130	0352701130
Kg		1.085	1.550
L 4.000 mm		0352401140	0352701140
Kg		1.175	1.678
L 5.000 mm		0352401150	0352701150
Kg		1.825	2.607
L 6.000 mm		0352401160	0352701160
Kg		2.170	3.100

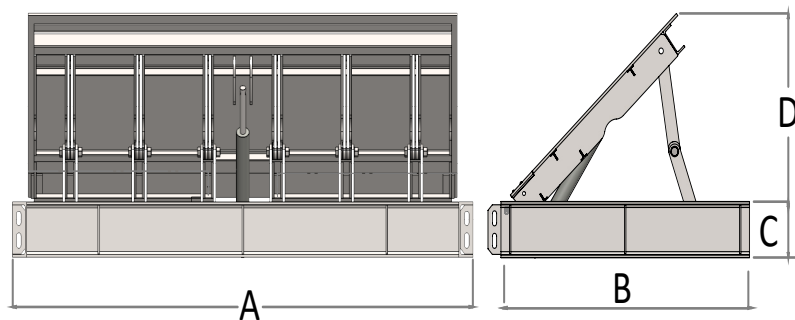
CRONO P300



AUTOMATIC ROAD BLOCKER

- HYDRAULIC MOVEMENT
- HYDRAULIC PISTON INCLUDED
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION

MODULAR PRODUCT



U.M. = mm			
A	B	C	D
2200	1520	298	800
3200	1820		1000

		H800	H1000
MATERIAL OF MOVING PLATE		S235JRC	
TREATMENT OF FORMWORK, STRUCTURE AND MOVING PART		HOT DIP GALVANIZATION	
REFLECTIVE STRIP		•	
BREAKOUT RESISTANCE	J	2.000.000	2.400.000
IMPACT RESISTANCE	J	200.000	
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000	
DAILY CYCLES INTENSIVE USE	N°	2.400	
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	1.500.000	
MAXIMUM PRESSURE OF WORK	bar	40-80	
POWER ABSORBED	W	1.100 - 3.000	
POWER SUPPLY	Vac	380V 50 HZ 3F+N	
TEMPERATURE OF WORK	°C	-20 +80	
ROHS REQUIREMENTS		•	
RAISING TIME	sec	7	8
LOWERING TIME	sec	6	7

• = standard equipment

L 2.000 mm	0352504120	0352704120
Kg	1.136	1.420
L 3.000 mm	0352504130	0352704130
Kg	1.680	2.100

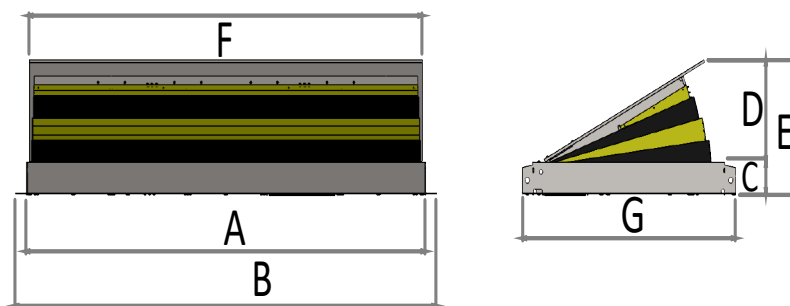
CRONO P115



AUTOMATIC ROAD BLOCKER

- HYDRAULIC MOVEMENT
- BUILT-IN HYDRAULIC SYSTEM
- LED
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION

MODULAR PRODUCT



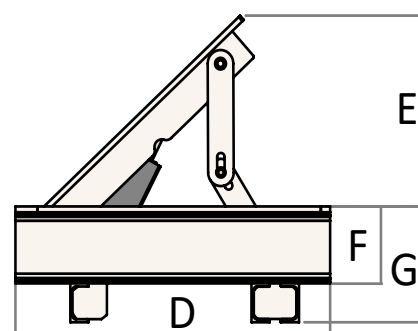
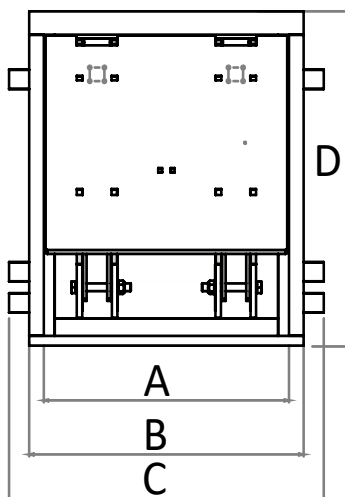
U.M. = mm						
A	B	C	D	E	F	G
960	1060	115	500	615	923	1040
1960	2060		700	815	1923	1390
2960	3060				2923	

CRONO P115 H500		CRONO P115 H700	
MATERIAL OF MOVING PLATE		S235JRC	
TREATMENT OF FORMWORK, STRUCTURE AND MOVING PART		HOT DIP GALVANIZATION	
FINISH OF MOVING PLATE		POWDER PAINT	
REFLECTIVE STRIP		•	
BREAKOUT RESISTANCE	J	850.000	1.000.000
IMPACT RESISTANCE	J	250.000	
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000	
DAILY CYCLES INTENSIVE USE	N°	2.400	
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	1.500.000	
MAXIMUM PRESSURE OF WORK	bar	30	
BUILT-IN HYDRAULIC PUMP		•	
DEGREE OF PROTECTION OF THE PUMP	IP	67	
POWER ABSORBED	W	550	
POWER SUPPLY	Vac	220V / 380 V 50 Hz	
POWER SUPPLY OF THE LED	Vdc	24	
TEMPERATURE OF WORK	°C	-20 +80	
ROHS REQUIREMENTS		•	
RAISING TIME	sec	7	8
LOWERING TIME	sec	6	7

• = standard equipment

L 1.000 mm	0353211110	0353411110
Kg	200	270
L 2.000 mm	0353211120	0353411120
Kg	385	515
L 3.000 mm	0353211130	0353411130
Kg	570	762

MRB600



AUTOMATIC MINI ROAD BLOCKER

- HYDRAULIC MOVEMENT
- HYDRAULIC PISTON INCLUDED
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION

U.M. = mm						
A	B	C	D	E	F	G
670	750	860	860	500	198	298

MRB600 H500		
MATERIAL OF MOVING PLATE		S335JRC
TREATMENT OF FORMWORK, STRUCTURE AND MOVING PART		HOT DIP GALVANIZATION
REFLECTIVE STRIP		•
BREAKOUT RESISTANCE	J	1.200.000
IMPACT RESISTANCE	J	250.000
STATIC RESISTANCE (CERTIFIED D400)	Kg	15.000
DAILY CYCLES INTENSIVE USE	N°	2.400
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	1.500.000
MAXIMUM PRESSURE OF WORK	bar	30
POWER ABSORBED	W	550
POWER SUPPLY	Vac	220V 50 Hz
TEMPERATURE OF WORK	°C	-20 / + 80
ROHS REQUIREMENTS		•

• = standard equipment

MRB600 H500		0351202206
HEIGHT FROM THE GROUND	mm	500
RAISING TIME	sec	2,5
LOWERING TIME	sec	1,5
WEIGHT	Kg	286

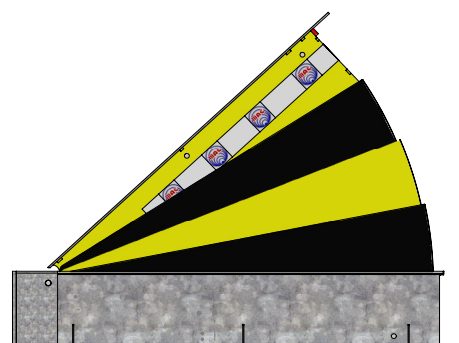
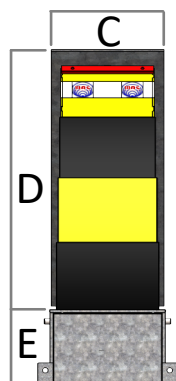
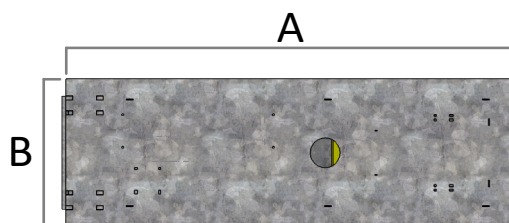
MRB300



AUTOMATIC MINI ROAD BLOCKER

- HYDRAULIC MOVEMENT
- LED
- BUILT-IN HYDRAULIC SYSTEM
- ELECTRONIC CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION

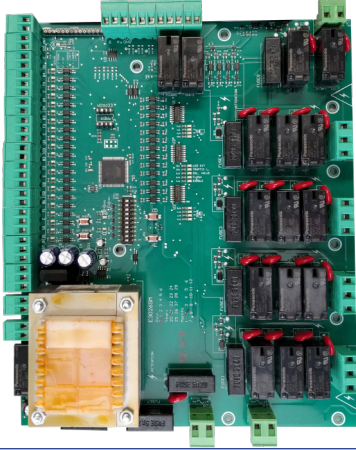
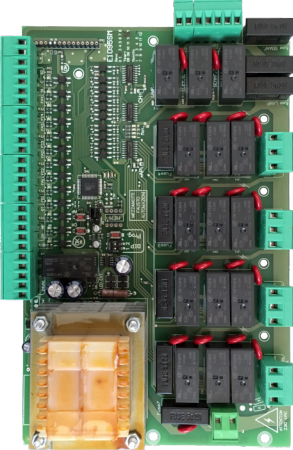
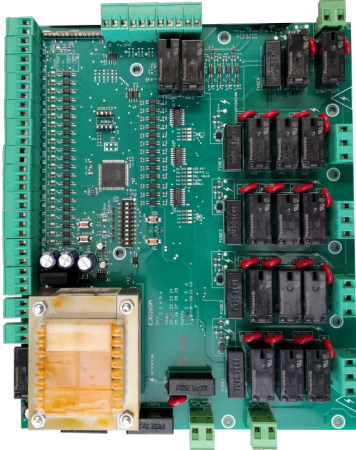
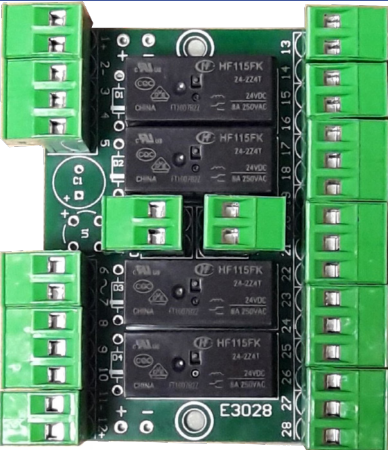
U.M. = mm				
A	B	C	D	E
1200	400	300	700	210

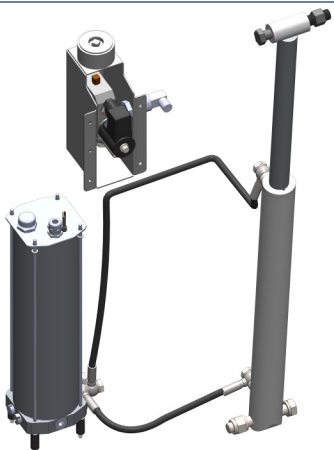


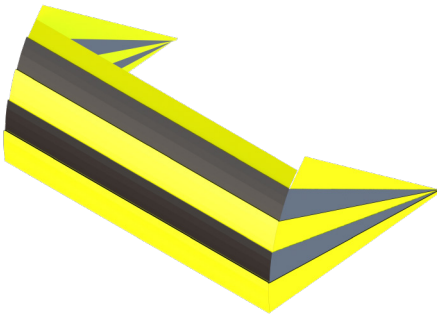
MRB300 H700		
MATERIAL MOVING PLATE		S335JRC
THICKNESS OF THE MOVING PLATES	mm	10
TREATMENT OF FORMWORK, STRUCTURE AND MOVING PART		HOT DIP GALVANIZATION
FINISH OF MOVING PLATE		POWDER PAINT
REFLECTIVE STRIP		•
BREAKOUT RESISTANCE	J	480.000
IMPACT RESISTANCE	J	5.000
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000
DAILY CYCLES INTENSIVE USE	N°	2.400
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	1.500.000
MAXIMUM PRESSURE OF WORK	bar	40
BUILT-IN HYDRAULIC PUMP		•
DEGREE OF PROTECTION OF THE PUMP	IP	67
POWER ABSORBED	W	550
POWER SUPPLY	Vac	220V 50 Hz
POWER SUPPLY OF THE LED	Vdc	24
TEMPERATURE OF WORK	°C	-20 / + 80
ROHS REQUIREMENTS		•

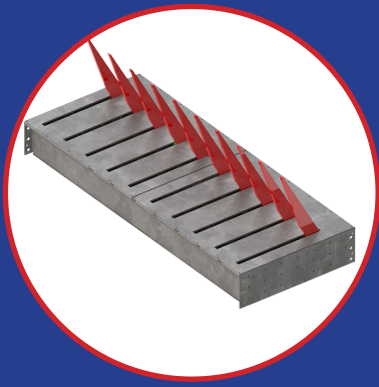
• = standard equipment

MRB300 H700		0351402203
HEIGHT FROM THE GROUND	mm	700
RAISING TIME	sec	4,8
LOWERING TIME	sec	4,4
WEIGHT	Kg	130

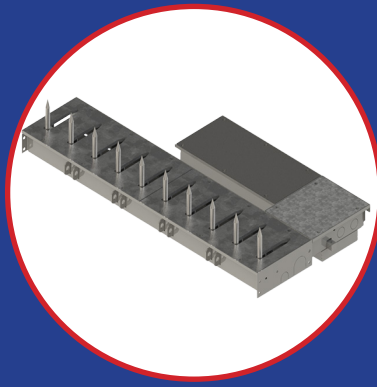
	BRAIN4SER electronic control unit for the management of three-phase bollards + FC repeater Electrical valve management relay Traffic light management relay Head light management relay Limit switch status duplicating card management 433 Mh radio included IP56 box included		5050008500	
	BRAIN4 electronic control unit for the management of n. 4 bollards 433 Mh radio included 38x30x12 cm IP56 box included		5050008602	
	BRAIN4SER electronic control unit for the management of three-phase road blockers 433 Mh radio included Circuit breaker Pump management contactor Box 46x38x13 cm IP56 included		1 5050008608-01	
			2 5050008608-02	
			3 5050008608-03	
			4 5050008608-04	
	Electronic card that duplicates the status of 4 limit switches (2 road blocker) or 2 limit switches + EFO (1 road blocker) to monitor the status of the road blockers (up or down) 24 Vdc power supply		1 1502220	
			2 1502250	

	Complete hydraulic system for Titano composed of: 14L hydraulic pump 3-way unlock release Hydraulic cylinder Pipes and fittings		0255607214901	
	Cabinet 120x100x40 cm including: Complete hydraulic system BRAIN4SER three-phase Release with electrical valve Int. Diff. MT 4x16A 30 mA 4.5 Ka Double loop detector		5935240384035	
	Manual pump for raising the road blocker in absence of power		035106000	
	EFO pressure accumulator (Emergency Fast Operation)	H700 H800	035148000	
		H1000	035178000	

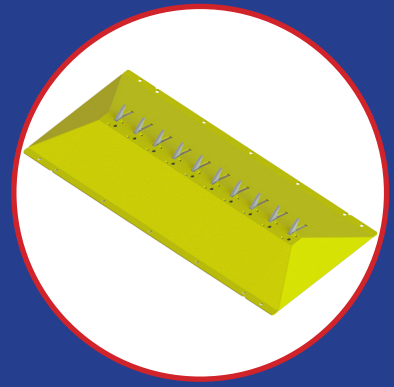
	Protective plate kit for Crono road blocker	H800 2M	0351570102	
		H800 3M	0351570103	
		H1000 2M	0351770102	
		H1000 3M	0351770103	
	Kit of n. 2 resin LEDs red light for Crono		5050000642	



TK45A-I



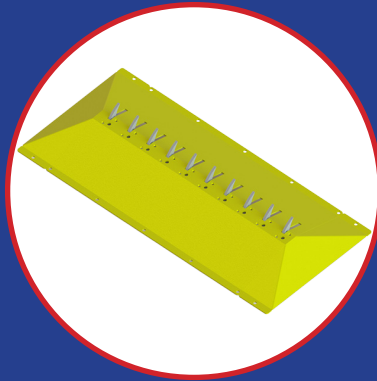
TK08A-I



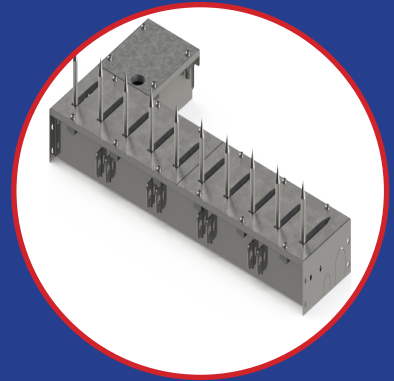
TK10A-E



TK10SA-I



TK10SA-E



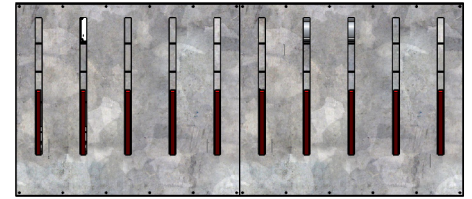
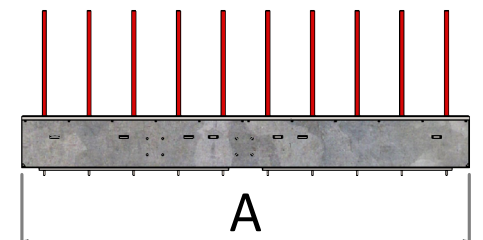
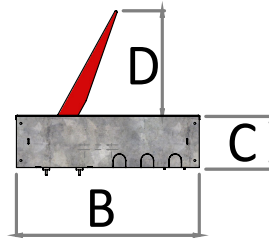
TK10M-I

TYRE KILLER

SUITABLE FOR:

- PROTECTING SENSITIVE PLACES SUCH AS EMBASSIES AND MILITARY SITES
- ACCESS CONTROL
- HIGH SECURITY

TK45A-I



BUILT-IN AUTOMATIC TYRE KILLER

- HYDRAULIC MOVEMENT
- 450 mm SPURS
- BUILT-IN HYDRAULIC SYSTEM
- CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION

MODULAR PRODUCT

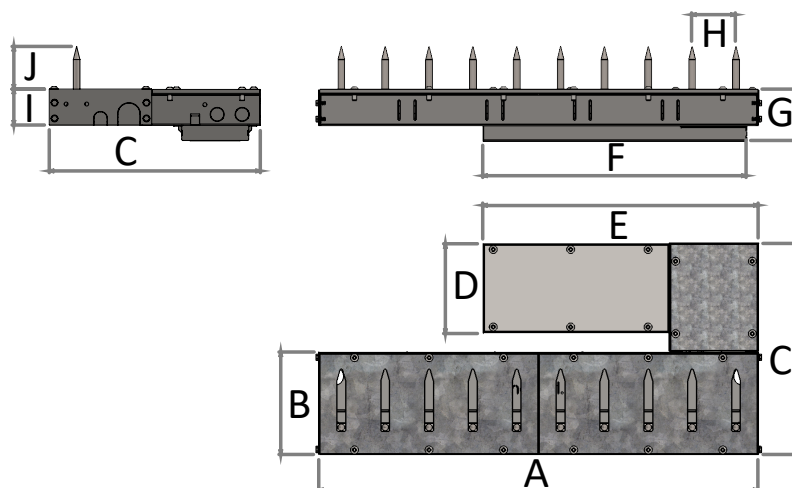
U.M. = mm			
A	B	C	D
2036	820	220	450
3036			

TK45A-I		
HEIGHT OF SPURS	mm	450
MATERIAL OF THE SPURS		S235JRC
TREATMENT OF THE FORMWORK, SPURS AND COVER		HOT DIP GALVANIZATION
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000
DAILY CYCLES INTENSIVE USE	N°	2.400
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	1.500.000
MAXIMUM PRESSURE OF WORK	bar	30
DEGREE OF PROTECTION OF THE PUMP	IP	67
POWER ABSORBED	W	550
POWER SUPPLY	Vac	230V 50HZ
TEMPERATURE OF WORK	°C	-20 / +80
ROHS REQUIREMENTS		•

• = standard equipment

L	Kg	COD.	
TK45A-I L2000	315	039208152	
TK45A-I L3000	470	039208153	

TK08A-I



BUILT-IN AUTOMATIC TYRE KILLER

- HYDRAULIC MOVEMENT
- 80 mm SS SPURS
- HYDRAULIC SYSTEM: OPTIONAL
- CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION

MODULAR PRODUCT

U.M. = mm									
A	B	C	D	E	F	G	H	I	J
1003	234	482	205	623	602	117	100	82	80

TK08A-I		
HEIGHT OF THE SPURS	mm	80
THICKNESS OF COVER PLATES	mm	10
MATERIAL OF THE FORMWORK AND SPURS		AISI304
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000
DAILY CYCLES INTENSIVE USE		2.400
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	1.500.000
MAXIMUM PRESSURE OF WORK	bar	30
DEGREE OF PROTECTION OF THE PUMP	IP	67
POWER ABSORBED	W	550
POWER SUPPLY	Vac	230V 50HZ
TEMPERATURE OF WORK	°C	-20 / +80
ROHS REQUIREMENTS		•

• = standard equipment

	Kg	COD.	
MASTER L1000	32	039203531-10M	
SLAVE L1000	32	039203531-10	
SLAVE L500	16	039203531-05	
FORMWORK + CYLINDER + LIMIT SWITCHES	18	039204531-CF	
FORMWORK + PUMP + CYLINDER	30	039204531-CPA	
JOINT	1	039204531-GR	
TERMINAL	1	039204531-TR	

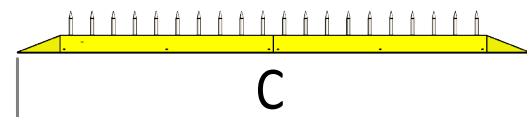
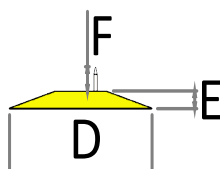
COMPOSITION EXAMPLE.

039204531-CPA	+	039204531-TR	+	039203531-10M	+	039204531-GR	+	039203531-10	+	039204531-TR	+	5050008602	5050008615	1503510
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COMPOSITION EXAMPLE (NO BUILT-IN PUMP):

039204531-CF	+	039204531-TR	+	039203531-10M	+	039204531-GR	+	039203531-10	+	039204531-TR	+	5935230103014	5935230103015	5935230103017
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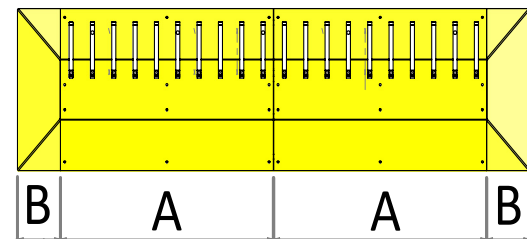
TK10A-E



EXTERNAL AUTOMATIC TYRE KILLER

- HYDRAULIC MOVEMENT
- 10 mm SS SPURS
- HYDRAULIC SYSTEM: OPTIONAL
- CONTROL BOARD: OPTIONAL
- CUSTOM CONFIGURATION

MODULAR PRODUCT



U.M. = mm					
A	B	C	D	E	F
1000	201	2400 3400	670	75	100

TK10A-E		
HEIGHT OF THE SPURS	mm	100
MATERIAL OF THE SPURS		AISI304
TREATMENT OF THE PLATES		HOT DIP GALVANIZATION
FINISH OF THE PLATES		POWDER PAINT
DAILY CYCLES INTENSIVE USE	N°	2.400
AVERAGE LIFE CYCLES WITHOUT MAINTENANCE	N°	1.500.000
MAXIMUM PRESSURE OF WORK	bar	30
POWER ABSORBED	W	550
POWER SUPPLY	Vac	230V 50HZ
TEMPERATURE OF WORK	°C	-20 / +80
ROHS REQUIREMENTS		•

• = standard equipment

	Kg	COD.	
L2000	130	039104552	
L3000	193	039104553	
TERMINAL	7,5	039804000	
JOINT	0,5	0390202	
CYLINDER + LIMIT SWITCH	8	039160050	

COMPOSITION EXAMPLE:

039804000	+	039104552	+	0390202	+	039104553	+	039160050	+	039804000	+	5935230103014	5935230103015	5935230103017
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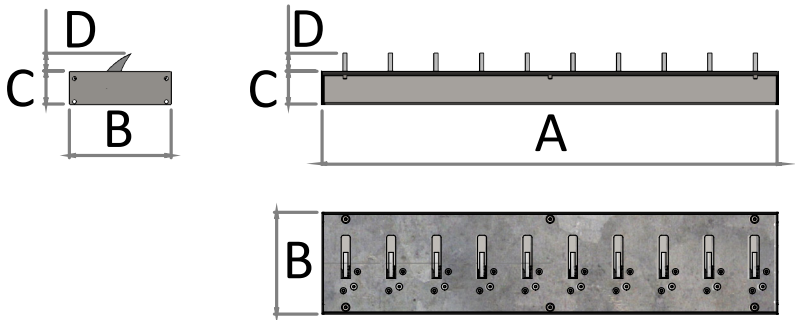
TK10SA-I



BUILT-IN SEMI-AUTOMATIC TYRE KILLER

- SPURS WITH SPRING
- CUSTOM CONFIGURATION

MODULAR PRODUCT



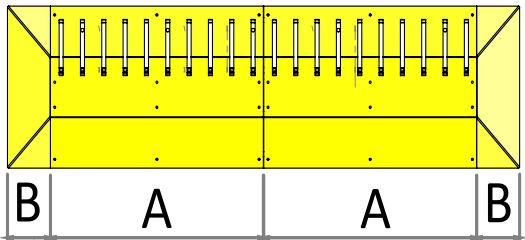
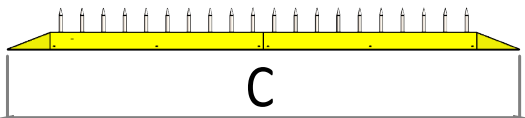
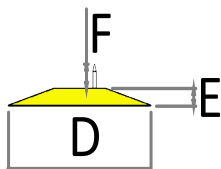
U.M. = mm			
A	B	C	D
998	224	73	40

		TK10SA-I	TK10SA-I INOX
HEIGHT OF THE SPURS	mm	40	
MATERIAL OF THE SPURS		S335JRC	AISI304
TREATMENT FORMWORK AND STRUCTURE		HOT DIP GALVANIZATION	
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000	

		039504071	039504571
L1000			

JOINT	0390202	
TERMINAL	0390201	

TK10SA-E



EXTERNAL SEMI-AUTOMATIC TYRE KILLER

- SPURS WITH SPRING
- CUSTOM CONFIGURATION

MODULAR PRODUCT

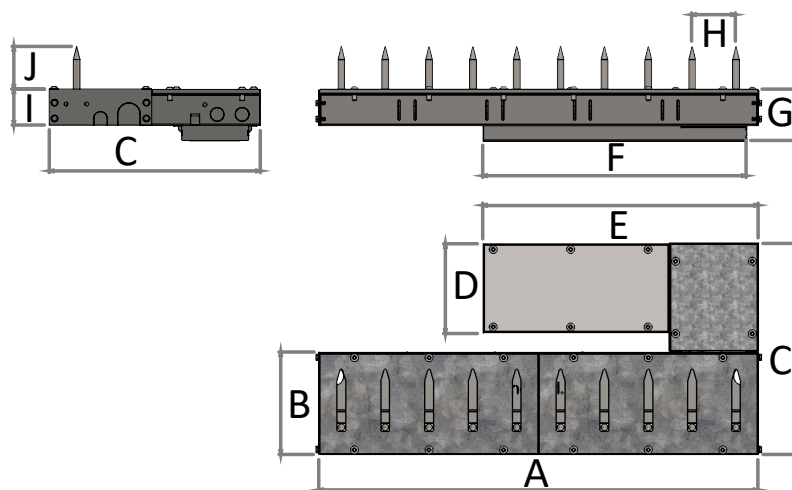
U.M. = mm					
A	B	C	D	E	F
1000	201	2400 3400	670	75	100

TK10SA-E			TK10SA-E INOX
HEIGHT OF SPURS	mm	100	
MATERIAL OF THE SPURS		S235JRC	AISI304
TREATMENT OF THE PLATES		HOT DIP GALVANIZATION	
FINISH OF THE PLATES		POWDER PAINT	
LEFT AND RIGHT TERMINALS		OPTIONAL	
WEIGHT	Kg	70	73

039404071			039404571
L1000			

Kg		
TERMINAL	7,5	039804000

TK08M-I



BUILT-IN MANUAL TYRE KILLER

- 80 mm SS SPURS
- OPERATION WITH SQUARE KEY
- CUSTOM CONFIGURATION

MODULAR PRODUCT

U.M. = mm								
A	B	C	D	E	F	G	H	I
1003	230	480	250	204	799	82	100	80

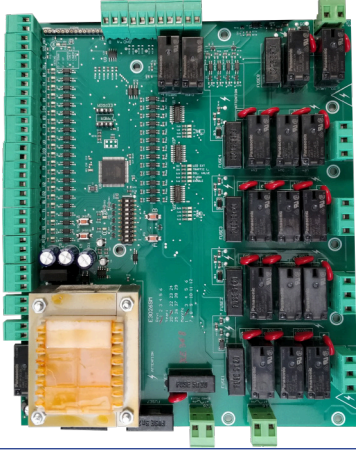
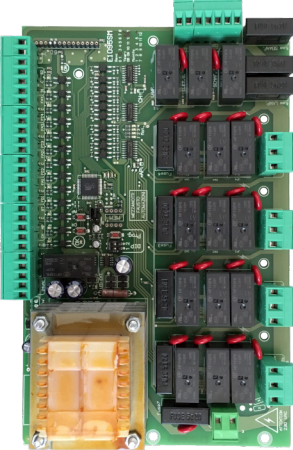
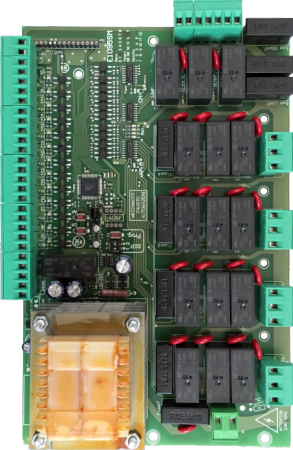
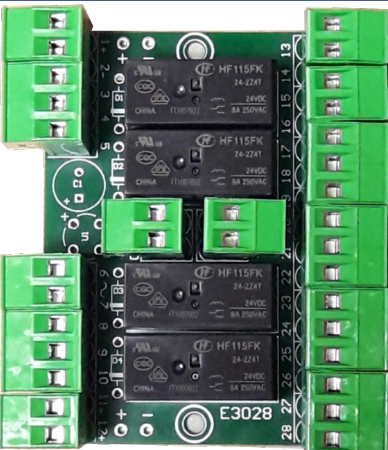
TK08M-I		
HEIGHT OF THE SPURS	mm	80
THICKNESS COVER PLATES	mm	10
MATERIAL OF THE FORMWORK AND SPURS		AISI304
STATIC RESISTANCE (CERTIFIED D400)	Kg	40.000

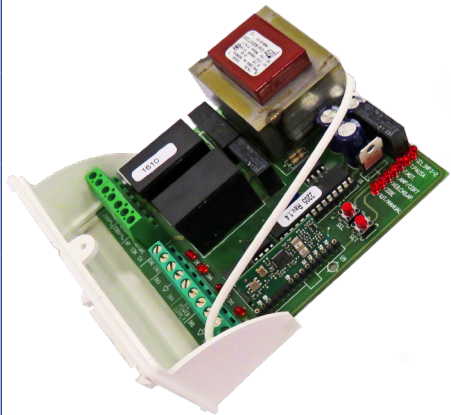
• = standard equipment

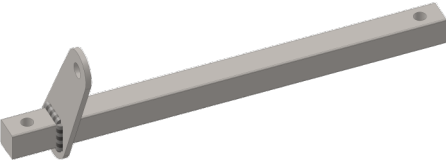
	Kg	COD.	
MASTER L1000	32	039203531-10M	
SLAVE L1000	32	039203531-10	
SLAVE L500	16	039203531-05	
FORMWORK WITH MANUAL LOCK	7	039204531-SR	
JOINT	1	039204531-GR	
TERMINAL	1	039204531-TR	

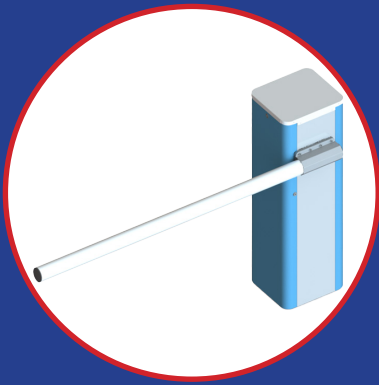
COMPOSITION EXAMPLE:

039204531-SR	+	039204531-TR	+	039203531-10M	+	039204531-GR	+	039203531-10	+	039204531-TR
--------------	---	--------------	---	---------------	---	--------------	---	--------------	---	--------------

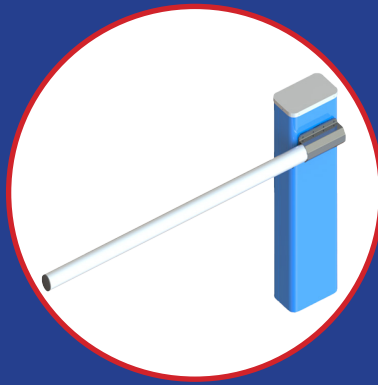
	BRAIN4SER electronic control unit that can manage n. 4 BRAIN4SER in RS485 (1 master + 3 slaves) max 16 bollards simultaneously. Separate power/electronics supply 433 Mh radio included 46x38x13 cm IP56 box included		5050008500	
	BRAIN4 electronic control unit for the management of n. 4 bollards 433 Mh radio included Box 38x30x12 cm IP56 included		5050008602	
	BRAIN4SER electronic control unit for the management of three-phase road blockers 433 Mh radio included Circuit breaker Pump management contactor Box 46x38x13 cm IP56 included	1	5050008608-01	
		2	5050008608-02	
		3	5050008608-03	
		4	5050008608-04	
	Electronic card that duplicates the status of 4 limit switches (2 bollards) or 2 limit switches + EFO (1 bollard) to monitor the status of the bollards (up or down) 24 Vdc power supply	1	1502220	
		2	1502250	

	Electronic control unit for the management of n. 1 TK 19x14x7 cm IP56 box included		1503510	
	Cabinet 60x40x25 cm including: 4L hydraulic pump Electronic control unit Hydraulic release Int. Diff. MT 2x5A 30 mA 4.5 Ka B1 = BRAIN 1 B4 = BRAIN4 TK = BRAIN1TK	B1	5935230103015	
		B4	5935230103014	
		TK	5935230103017	
	Manual pump for raising the TK in absence of power		035106000	
	EFO pressure accumulator (Emergency Fast Operation)	H500	035128000	
		H800	035148000	
		H1000	035178000	

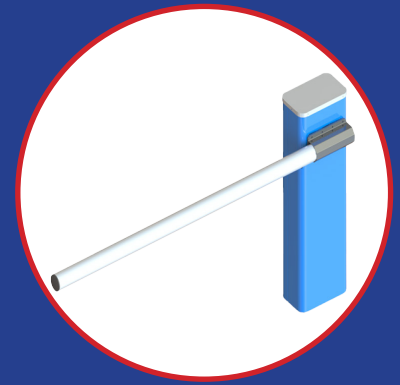
	Movement mechanism that connects the TKs to the SBM408 barrier. The movement of both is managed by the barrier, without the hydraulic system. TK-I = FOR BURIED TK TK-E = FOR SURFACE TK	TK-I	039970070	
		TK-E	039870070	



SBM408



SBM206



SBM206M

BARRIERS

SUITABLE FOR:

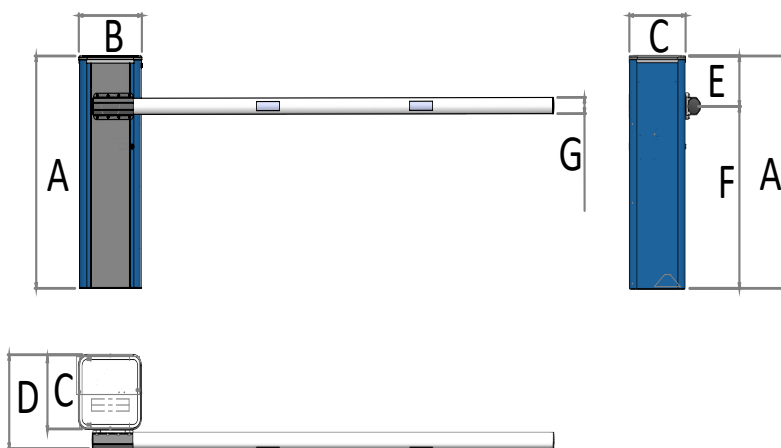
- DELIMITING AND MANAGING ACCESS TO PUBLIC AND PRIVATE AREAS
- INTENSIVE USE
- NON-INTENSIVE USE

SBM408



AUTOMATIC BARRIER

- INVERTER
- CONTROL BOARD
- THREE-PHASE MOTOR
- LED INCLUDED
- CUSTOM CONFIGURATION



U.M. = mm						
A	B	C	D	E	F	G
1151	412	368	265	250	901	Ø 80

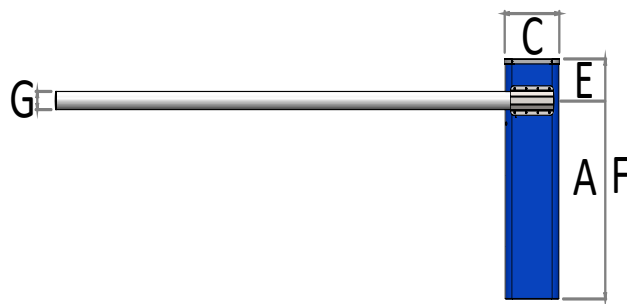
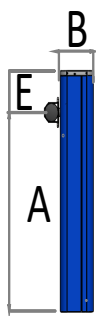
SBM408		
MATERIAL OF THE STRUCTURE		S335JRC
TREATMENT OF THE STRUCTURE		HOT DIP GALVANIZATION
FINISH OF THE PLATES		POWDER PAINT
DAILY CYCLES BOOM UP TO 3M	N°	9.000
DAILY CYCLES BOOM FROM 4 TO 6M	N°	4.500
TENSION MONO-PHASE INPUT	Vac	220
INVERTER WITH THREE-PHASE OUTPUT	Vac	220
LED POWER SUPPLY	Vcc	24
OPEN/CLOSE SPEED	sec	1 - 6
TEMPERATURE OF WORK	°C	-20 / + 60
WEIGHT	Kg	110
ARM ROTATION		LIMIT SWITCH OR ENCODER
ROHS REQUIREMENTS		•

• = standard equipment

BARRIER	046114080	
FIXED SUPPORT	046810010	
MOVING SUPPORT	046810000	
PHOTOCELL	1630026	
GROUND MOUNTING BASE + THREADED RODS	046834080	

		L2000	L3000	L4000	L5000	L6000
BOOM		046780802	046780803	046780804	046780805	046780806
SPRING		04710600703450	04710600703450	04710700703450	04710700703450	04710800703450
	Q.	1	1	1	2	2

SBM206



AUTOMATIC BARRIER

- CONTROL BOARD
- MONO-PHASE MOTOR
- LED INCLUDED
- CUSTOM CONFIGURATION

U.M. = mm						
A	B	C	D	E	F	G
875	205	330	298	184	1059	Ø 80

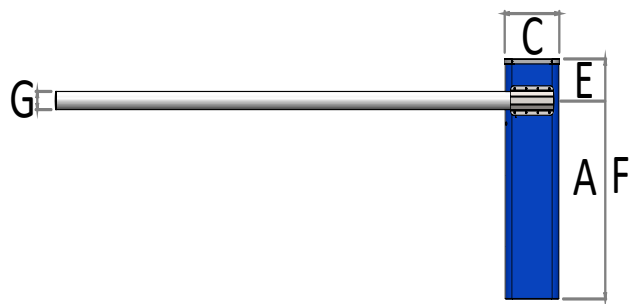
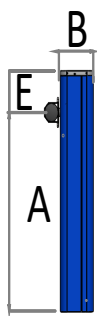
SBM206		
MATERIAL OF THE STRUCTURE		S235JRC
FINISH OF THE PLATES		POWDER PAINT
DAILY CYCLES BOOM UP TO 3M	N°	300
DAILY CYCLES BOOM FROM 4 TO 6M	N°	100
POWER ABSORBED	W	250
POWER SUPPLY	Vac	220
LED POWER SUPPLY	Vcc	24
OPEN/CLOSE SPEED	sec	6
TEMPERATURE OF WORK	°C	-20 / + 60
WEIGHT	Kg	45
ROHS REQUIREMENTS		•

• = standard equipment

BARRIER	046212060	
FIXED SUPPORT	046810010	
MOVING SUPPORT	046810000	
PHOTOCELL	1630026	
GROUND MOUNTING BASE + THREADED RODS	046832060	

	L2000	L3000	L4000	L5000	L6000
BOOM	046780802	046780803	046780804	046780805	046780806

SBM206M



MANUAL BARRIER

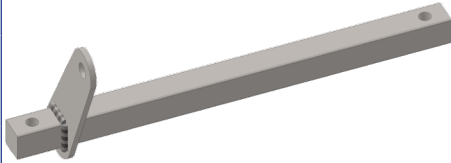
U.M. = mm						
A	B	C	D	E	F	G
875	205	330	298	184	1059	Ø 80

		SBM206M FE	SBM206M INOX
MATERIAL OF THE STRUCTURE		S235JRC	AISI304
FINISH OF THE PLATES		POWDER PAINT	BRUSHED
WEIGHT	Kg	31	33

• = standard equipment

BARRIER IN STEEL	046612060	
GROUND MOUNTING BASE FOR STEEL + THREADED RODS	046832060	
BARRIER IN STAINLESS STEEL	046652060	
GROUND MOUNTING BASE FOR STAINLESS STEEL + THREADED RODS	046852060	
FIXED SUPPORT	046810010	
MOVING SUPPORT	046810000	

	L2000	L3000	L4000	L5000	L6000
BOOM	046780802	046780803	046780804	046780805	046780806



Movement mechanism that connects the TKs to the SBM408 barrier.

The movement of both is managed by the barrier, without the hydraulic system.

TK-I = FOR BURIED TK
TK-E = FOR SURFACE TK

TK-I	039970070	
TK-E	039870070	



TORM



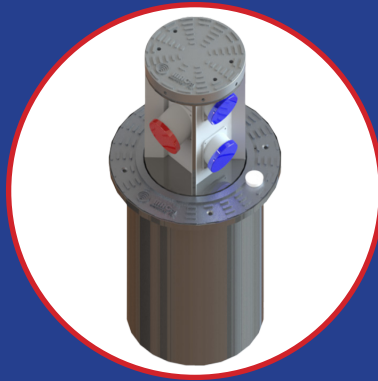
TORM-RIB



TORM EXPO 63



TORM EXPO 150



CELLAR 280

ELECTRIFIED COCKPITS

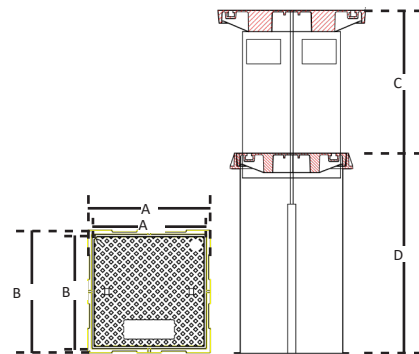
SUITABLE FOR:

- FAIRS, EVENTS AND EVENTS OF ALL KINDS
- PUBLIC AND PRIVATE USE



ELECTRIFICED COCKPIT

- STRUCTURE IN STAINLESS STEEL
- CAST IRON OR STAINLESS STEEL FILLABLE MANHOLE
- AVAILABLE EMPTY OR WITH CUSTOM CONFIGURATION



(U.M. = mm)					
A	B	a	b	C	D
600	600	500	500	650	1000
800	800	700	700	650	1000

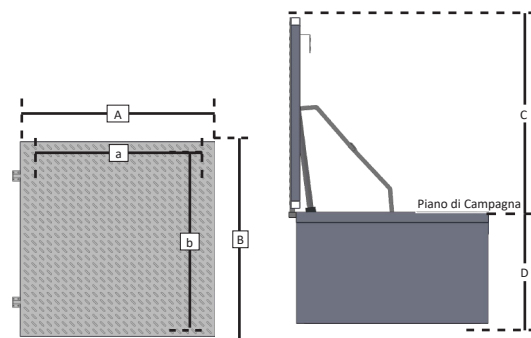
LOADING CLASS	B125	C250	D400	E600	F900
CAST IRON MANHOLE	•	•	•	•	•
SS FILLABLE MANHOLE	•				

LOADING CLASS	B125	C250	D400	E600	F900
CAST IRON MANHOLE 600x600	0900201-B125	0900201-C250	0900201-D400	0900201-E600	0900201-F900
SS FILLABLE MANHOLE 600x600	0900201IR				
CAST IRON MANHOLE 800x800	0900202-B125	0900202-C250	0900202-D400	0900202-E600	0900202-F900
SS FILLABLE MANHOLE 800x800	0900202IR				



ELECTRIFICED COCKPIT

- STRUCTURE IN STAINLESS STEEL
- CAST IRON OR STAINLESS STEEL FILLABLE MANHOLE
- AVAILABLE EMPTY OR WITH CUSTOM CONFIGURATION



(U.M. = mm)					
A	B	A	B	C	D
800	800	700	700	700	600

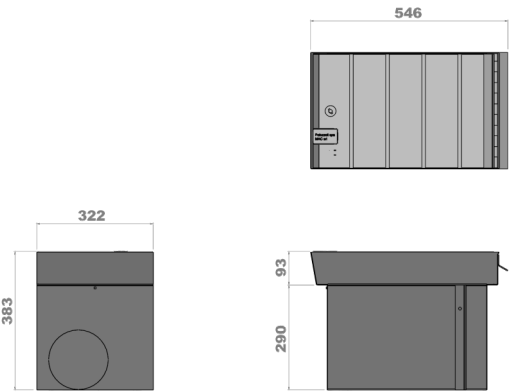
LOADING CLASS	B125	C250	D400	E600	F900
CAST IRON MANHOLE	•	•	•	•	•
SS FILLABLE MANHOLE	•				

LOADING CLASS	B125	C250	D400	E600	F900
CAST IRON MANHOLE 800x800	0900406-B125	0900406-C250	0900406-D400	0900406-E600	0900406-F900
SS FILLABLE MANHOLE 800x800	0900406IR				

TORM EXPO 63

ELECTRIFICED COCKPIT

- STRUCTURE IN STAINLESS STEEL
- STAINLESS STEEL FILLABLE MANHOLE
- AVAILABLE EMPTY OR WITH CUSTOM CONFIGURATION

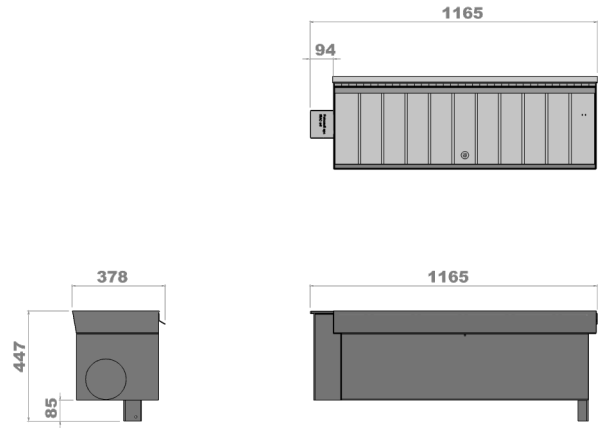


LOADING CLASS		B125			
SS FILLABLE MANHOLE	0900812				

TORM EXPO 150

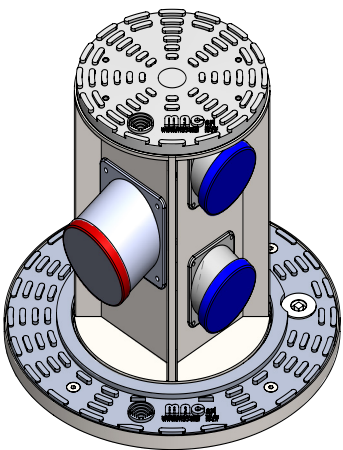
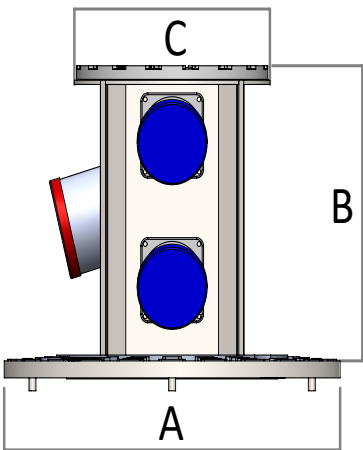
ELECTRIFICED COCKPIT

- STRUCTURE IN STAINLESS STEEL
- STAINLESS STEEL FILLABLE MANHOLE
- AVAILABLE EMPTY OR WITH CUSTOM CONFIGURATION



LOADING CLASS	B125				
SS FILLABLE MANHOLE	0900829				

CELLAR280



ELECTRIFIED COCKPIT

- HEAD AND PLATFORM IN ALUMINIUM
- STRUCTURE IN STAINLESS STEEL
- LIFTING WITH DRILL OR BY KEY
- LED: OPTIONAL

U.M. = mm		
A	B	C
481	420	280

CELLAR280		
THICKNESS OF THE PLATES	mm	10
DIAMETER OF THE COCKPIT	mm	280
DIAMETER OF THE PLATFORM	mm	481
MATERIAL OF THE STRUCTURE		AISI304
MATERIAL HEAD AND PLATFORM		ALUMINIUM
LOADING CLASS		C250

• = standard equipment

CELLAR280	0903000	
KIT A	0903000-A	
KIT B	0903000-B	
KIT C	0903000-C	
KIT D	0903000-D	

KIT A	KIT B	KIT C	KIT D
SIDE 1: (16 MODULES) 1 PURE DIFF. SWITCH 4X63A 0,003A 1 MAGN. SWITCH 4X32A 6KA 4 MAGN. SWITCH 2X16A 6KA SIDE 2: 2 SOCKETS 2X16A+T IP67 SIDE 3: 1 THREEP. SOCKET 3X32A+N+T IP67 SIDE 4: 2 SOCKETS 2X16A+T IP67	SIDE 1: (16 MODULES) 1 PURE DIFF. SWITCH 4X63A 0,003A 1 MAGN. SWITCH 3X32A 6KA 4 MAGN. SWITCH 2X16A 6KA SIDE 2: 2 SOCKETS 2X16A+T IP67 SIDE 3: 1 THREEP. SOCKET 3X32A+T IP67 SIDE 4: 2 SOCKETS 2X16A+T IP67	SIDE 1: (16 MODULES) 1 PURE DIFF. SWITCH 4X63A 0,003A 2 MAGN. SWITCH 4X16A 6KA 4 MAGN. SWITCH 2X16A 6KA SIDE 2: 2 SOCKETS 2X16A+T IP67 SIDE 3: 2 THREEP. SOCKETS 3X16A+N+T IP67 SIDE 4: 2 SOCKETS 2X16A+T IP67	SIDE 1: (16 MODULES) 1 PURE DIFF. SWITCH 4X63A 0,003A 2 MAGN. SWITCH 3X16A 6KA 4 MAGN. SWITCH 2X16A 6KA SIDE 2: 2 SOCKETS 2X16A+T IP67 SIDE 3: 2 THREEP. SOCKETS 3X16A+T IP67 SIDE 4: 2 SOCKETS 2X16A+T IP67



SEM140



SEM100



SEM1PL

TRAFFIC LIGHTS

SUITABLE FOR:

- REGULATING TRAFFIC
- ADJUSTING THE ROAD DIRECTIONS

SEM140

TRAFFIC LIGHT IN BRUSHED STAINLESS STEEL

▫ AVAILABLE WITH 1 OR 2 SIDES



SEM140		
THICKNESS OF THE TUBE	mm	2
DIAMETER OF THE TUBE	mm	140
MATERIAL OF THE TUBE		AISI304
FINISH OF THE TUBE		BRUSHED
HEIGHT	mm	1.500
LENS DIAMETER	mm	90
REFLECTIVE STRIP		•
ABSORBED POWER	mA	90
POWER SUPPLY	Vcc	24
WEIGHT	Kg	13

• = standard equipment

MOD.	SIDES	COD.	
SEM140 1L	1	1650001	
SEM140 2L	2	1650002	

SEM100



OXIDIZED ALUMINUM TRAFFIC LIGHT

▫ AVAILABLE WITH 1 OR 2 SIDES

SEM100		
THICKNESS	mm	2
DIMENSIONS	mm	100x100
MATERIAL		ALUMINIUM
FINISH OF THE TUBE		OXIDIZED
HEIGHT	mm	1.500
LENS DIAMETER	mm	90
REFLECTIVE STRIP		•
ABSORBED POWER	mA	90
POWER SUPPLY	Vcc	24
WEIGHT	Kg	3,6

• = standard equipment

MOD.	SIDES	COD.	
SEM100 1L	1	1650005	
SEM100 2L	2	1650006	

SEM1PL

WALL-MOUNTED TRAFFIC LIGHT IN PLASTIC MATERIAL

- TRANSFORMERS INCLUDED



SEM1PL		
DIMENSIONS	mm	160x180
MATERIAL		PLASTIC
HEIGHT	mm	320
LENS DIAMETER	mm	120
INSULATION DEGREE	IP	65
POWER SUPPLY	Vcc	24
WEIGHT	Kg	1,5

- = standard equipment

MOD.	SIDES	COD.	
SEM1PL	1	1650042	



EB170



SB100



AB200

PARKING SYSTEMS

SUITABLE FOR:

- AIRPORTS, STATIONS AND LARGE PARKING
- PUBLIC AND PRIVATE USE

EB170

ENTRY TERMINAL FOR PARKING

- TICKET WITH BARCODE
- MANAGEMENT OF 10.000 TICKET
- REMOVABLE SIDE PANELS FOR MAINTENANCE
- CUSTOM CONFIGURATION



EB170		
MATERIAL OF THE PLATES	mm	AISI 304
FINISH OF THE PLATES		POWDER PAINT
TICKET DIMENSIONS	mm	54x86
TEMPERATURE OF WORK	°C	-25 / +60
POWER SUPPLY	V	230V AC
DIMENSIONS	mm	400x370x1370 mm
WEIGHT	Kg	65

• = standard equipment

ENTRY TERMINAL	05011010	
GROUND MOUNTING BASE	05050012	

SB100

EXIT TERMINAL FOR PARKING

- BARCODE READER
- MANAGEMENT OF 10.000 TICKET
- REMOVABLE SIDE PANELS FOR MAINTENANCE
- CUSTOM CONFIGURATION



SB100		
MATERIAL OF THE PLATES	mm	AISI 304
FINISH OF THE PLATES		POWDER PAINT
TEMPERATURE OF WORK	°C	-25 / +60
POWER SUPPLY	V	230V AC
DIMENSIONS	mm	400x370x1370 mm
WEIGHT	Kg	59

• = standard equipment

EXIT TERMINAL	05021010	
GROUND MOUNTING BASE	05050012	

AB200

AUTOMATIC PARKING CASH MACHINE

- 19" COLOR SCREEN
- ENTRY FOR COIN
- ENTRY FOR CASH
- PAYMENTS BY CARD (OPTIONAL)
- MULTILINGUAL
- REMOVABLE SIDE PANELS FOR MAINTENANCE
- CUSTOM CONFIGURATION



AB200		
MATERIAL OF THE PLATES	mm	AISI 304
FINISH OF THE PLATES		POWDER PAINT
TEMPERATURE OF WORK	°C	-25 / +60
POWER SUPPLY	V	230V AC
DIMENSIONS	mm	850x640x1970 mm
WEIGHT	Kg	152

• = standard equipment

CASH MACHINE	05050011	
GROUND MOUNTING BASE	05050013	

ACCESSORIES



Emergency button
"Break glass" IP67

1630202



Double loop magnetic detector
24V AC/DC

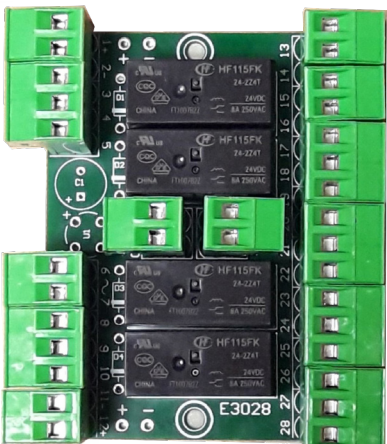
1630079



Electronic board for series
connection of max. n. 4
bollards with sensitive head + n. 1
double loop magnetic detector

1

1502221



Electronic card that duplicates the
status of 4 limit switches
(2 bollards)
or 2 limit switches + EFO (1 bollard)
to monitor the status of the bollards
(up or down)
24 Vdc power supply

1

1502220

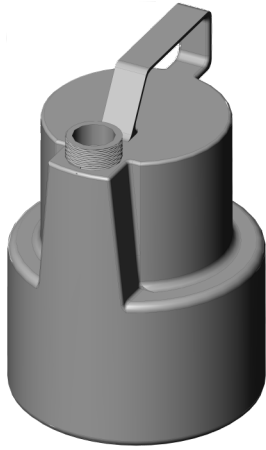
2

1502250

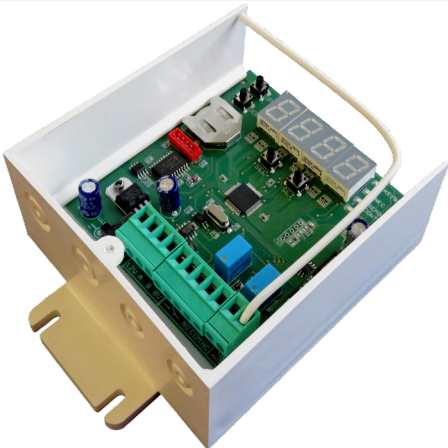
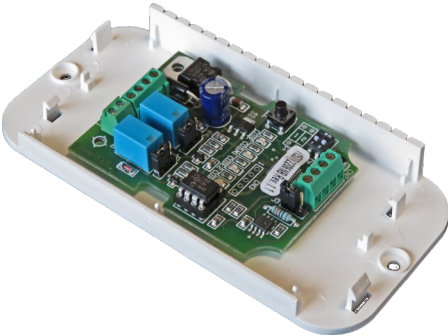
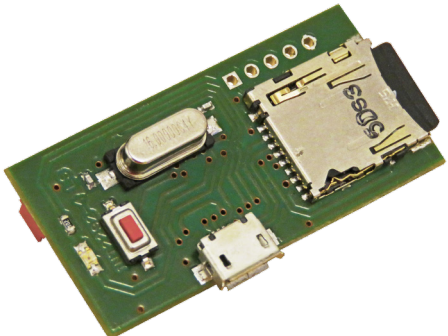
	Round stainless steel traffic light with two LED lights (red and green) Pipe diameter: 140 mm Height: 1.500 mm Lens diameter: 90 mm Weight: 13 kg 24V or 220V power supply 1L = 1 SIDE 2L = 2 SIDES	1L	1650001	
		2L	1650002	
	Square aluminum traffic light with two LED lights (red and green) Dimensions: 100x100 mm Height: 1.500 mm Lens diameter: 90 mm Weight: 3.6 kg 24V or 220V power supply 1L = 1 SIDE 2L = 2 SIDES	1L	1650005	
		2L	1650006	
	Wall traffic light with two LED lights (red and green). Dimensions: 160x320x180 mm Lens diameter: 120 mm Weight: 1.5 kg 230 Vac power supply		1650042	
	Flashing LED 230 Vac power supply		1655025	

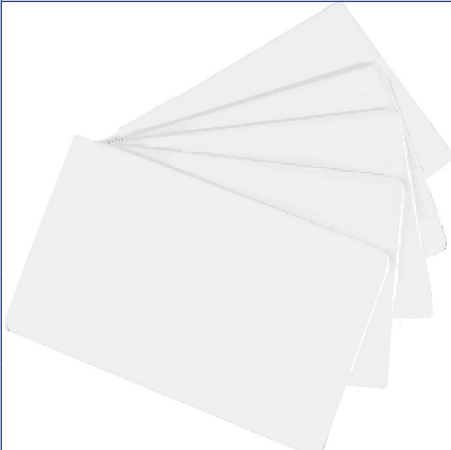
	230V N.O. electrical valve for automatic lowering in absence of power + cable for the transformation of use from private to public use		5050001251	
	250W self-regulating 230V IP67 anti-condensation heater resistance complete with bracket and cable (internal installation)		5050001854	
	Accessory for protecting the live parts of the control panel Brain4 electronics. Made of plexiglass and complete with support for fixing the capacitors		5050008620	
	General circuit breaker fixed on din bar (internal installation in the Brain4 electronic control unit box)		5050008621	

	Voltage release coil for auxiliary contacts for signaling lack of network on din bar (internal installation in the Brain4 electronic control unit box) for emergency button		5050008622	
	Weekly clock for managing time slot openings (installation on Brain1, Brain4 or Brain4 SER electronic control unit)		5050008630	
	Sound recognizer of emergency vehicles with sirens approved in Europe. IT = ITALY DE = GERMANY F1 = FRANCE POLICE AND FIREFIGHTERS F2 = FRANCE AMBULANCE BT = BITONAL SPAIN	IT	5050008651	
		DE	5050008652	
		F1	5050008653	
		F2	5050008654	
		BT	5050008656	
	Alarm contact with magnets to be positioned under the platform and at the base of the bollard tube. It must be connected to an alarm system. It sounds in case of a tampering attempt.		5050008801	

	Road sign warning "Attention retractable bollards when moving" complete with pole. Aluminum sign 60x90 cm. Galvanized pole D60 H3,3 Mt., S2 mm. 60 mm galvanized bridge bracket.		5050008901	
	230V IP67 acoustic signal Danger warning during the raising and lowering of the bollard (internal installation)		5050008910	
	Submersible pump with float for rainwater drainage		030099100	
	Biodegradable hydraulic oil Nils Antares ES22	2L	6964008	
		5L	6964009	
		10L	6964010	

	Biodegradable hydraulic oil Ecolabel HLP SYNTH E22	2L	6964018	
		5L	6964019	
		10L	6964020	
	Supplement for bollard tube color change. RAL of your choice Matte finish = OP Semi-gloss finish = SL Gloss finish = LU	OP	5051000302	
		SL	5051000303	
		LU	5051000304	
	External key selector with 2 contacts		1560003	
	4-channel 433 MHz remote control (To be purchased together with the antenna) DP = DIP SWITCH RC = ROLLING CODE	DP	1540004	
		RC	1540024	

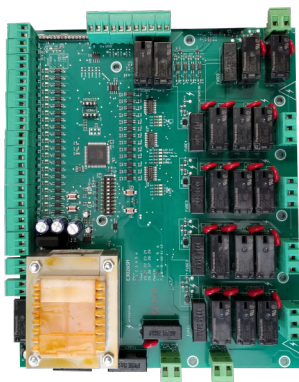
	433 MHz antenna with stainless steel bracket and 7m cable		1540100	
	PRO1010 access control unit with RS485: - Integrated radio module - Connection with PRO1121, PRO1212 and PRO1213. - Clock with backup battery - Memory of 15,000 transits - Power supply 12-24 Vac 6W - Max. 1,000 devices - Dim. 110x121x47 mm		1591010	
	PRO1001 dual-channel interface for the connection with PRO1121, PRO1212 and PRO1213. (Max. two devices per type) - RS485 standard - 24 Vac power supply - Max. 120 memorized codes		1591001	
	PRO1011 interface Allows the storage of data relating to transits recorded by the PRO1010 on an SD card (included). It also allows the PRO1010 to be connected to a PC via USB connector and the specific application for transit control and access control management.		1591011	

	PRO1031 key fob transponder with NFC technology. Also available standard version without NFC. Pack of 10 or 100 pieces.	10	1591031-10	
		100	1591031-100	
	PRO1035 card-type transponder with NFC technology. Also available standard version without NFC. Pack of 10 or 100 pieces.	10	1591035-10	
		100	1591035-100	
	PRO1121 12-key, 2-channel digital selector for use with PRO1001 and PRO1010. RS485 standard Dim. 90x65x30 mm		1591121	
	NFC reader for Smartphone (PRO1212) or card (PRO1213) for use with PRO1001 and PRO1010. RS485 standard Dim. 80x54x38 mm S = FOR SMARTPHONE C = FOR CARD AND KEY	S	1591212	
		C	1591213	

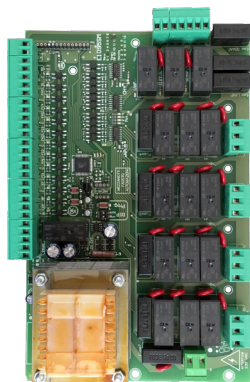
ACCESSORIES KITS

PRIVATE

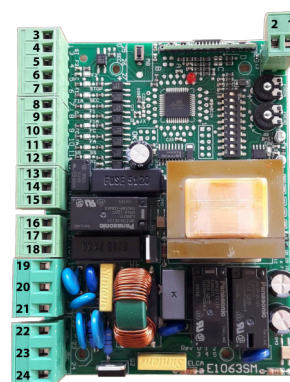
RECOMMENDED ACCESSORIES FOR THE INSTALLATION OF AUTOMATIC BOLLARDS ON PRIVATE LAND:



CONTROL BOARD
BRAIN4SER



CONTROL BOARD
BRAIN4



CONTROL BOARD
BRAIN1



PROTECTION OF LIVE PARTS
FOR CONTROL BOARD



INT. MAGNETOTHERMAL
GENERAL



TWO LOOP MAGNETIC
DETECTOR



ROLLING CODE
REMOTE CONTROL



ANTENNA FOR REMOTE
CONTROL



TWO CONTACTS
SELECTOR

LAND



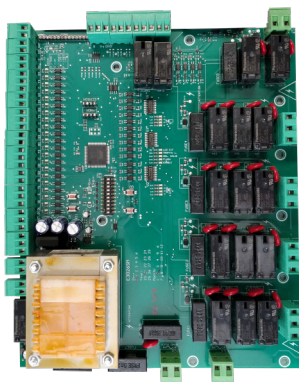
ALARM CONTACT KIT



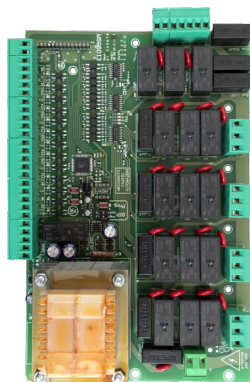
CYLINDER LOCK

PRIVATE LAND

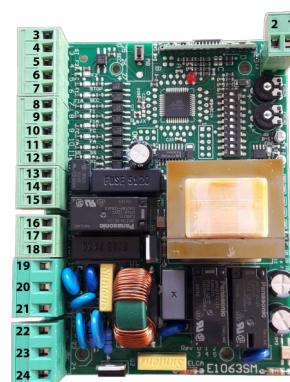
RECOMMENDED ACCESSORIES FOR THE INSTALLATION OF AUTOMATIC BOLLARDS ON PRIVATE LAND FOR PUBLIC USE:



CONTROL BOARD
BRAIN4SER



CONTROL BOARD
BRAIN4



CONTROL BOARD
BRAIN1



PROTECTION OF LIVE PARTS
FOR CONTROL BOARD



INT. MAGNETOTHERMAL
GENERAL



TWO LOOP MAGNETIC
DETECTOR



ROLLING CODE
REMOTE CONTROL



ANTENNA FOR REMOTE
CONTROL



TWO CONTACTS
SELECTOR

FOR PUBLIC USE



WARNING SIGN
MOVING BOLLARDS



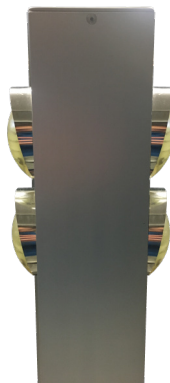
ACOUSTIC SIGNAL FOR
BOLLARD MOVEMENT



ELECTRICAL VALVE FOR LOWE-
RING IN ABSENCE OF POWER



STAINLESS STEEL
TRAFFIC LIGHT



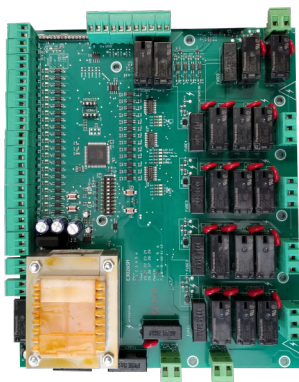
ALUMINIUM
TRAFFIC LIGHT



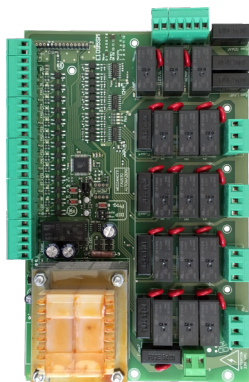
WALL MOUNTING
TRAFFIC LIGHT

PUBLIC

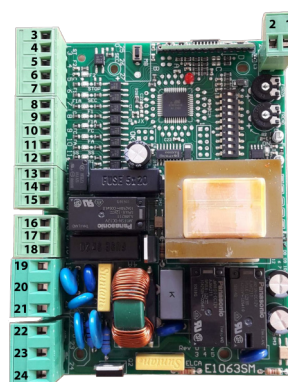
RECOMMENDED ACCESSORIES FOR THE INSTALLATION OF AUTOMATIC BOLLARDS ON PUBLIC LAND:



CONTROL BOARD
BRAIN4SER



CONTROL BOARD
BRAIN4



CONTROL BOARD
BRAIN1



PROTECTION OF LIVE PARTS
FOR CONTROL BOARD



INT. MAGNETOTHERMAL
GENERAL



RELEASE COIL FOR
LIVE PARTS



TWO LOOP MAGNETIC
DETECTOR



“BREAK THE GLASS”
EMERGENCY BUTTON



TWO CONTACTS
SELECTOR

LAND



ELECTRICAL VALVE FOR LOWERING IN ABSENCE OF POWER



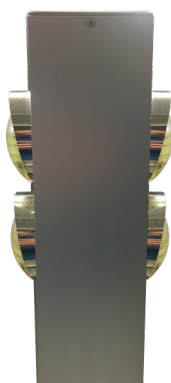
ACOUSTIC SIGNAL FOR BOLLARD MOVEMENT



SOUND RECOGNIZER EMERGENCY VEHICLES



STAINLESS STEEL TRAFFIC LIGHT



ALUMINIUM TRAFFIC LIGHT



WALL MOUNTING TRAFFIC LIGHT



WARNING SIGN MOVING BOLLARDS



SENSITIVE HEAD

GENERAL TERMS AND CONDITIONS

1. MODE OF APPLICATION - These General Conditions of Sale replace the previous ones and are applied to all orders relating to "MAC SRL" brand products. They form an integral part of the Order Confirmation and prevail over any purchase conditions prepared by the Customer (as Buyer).

1.1 This Price List is reserved exclusively for direct customers of MAC SRL (as Seller). Where commercial agreements and / or individual product supply contracts are already in force between the Parties, these General Conditions of Sale are to be considered an integration of these. In case of conflict, the general conditions of sale prevail. In no case can this Price List bind MAC SRL towards the final buyers (users) of the products, as it is reserved exclusively for direct MAC SRL customers.

2. PRICES - The sale of MAC SRL products is carried out according to the Price List in force at the time of the order. MAC SRL reserves the right to modify its Price List without notice at any time, if changes in costs not attributable to it occur.

2.1 The prices in this Price List do not include packaging costs and must be intended for goods ex works in Via Enrico Mattei 9, Morciola di Vallefoglia (PU), 61022, Italy.

The packaging costs are to be calculated on the net value purchased and are equal to 1% (minimum 10 euros). As for special packaging requested by the customer or fumigated pallets, the cost will be calculated on the price paid for such packaging by MAC SRL. The prices shown are in Euro currency and do not include VAT. The last Price List issued by MAC SRL cancels all the previous ones.

3. QUOTATIONS AND ORDERS - The offers made by MAC SRL, unless otherwise agreed, are valid for 60 days from the date of dispatch. Orders must be sent in writing by the Customer to MAC SRL with an indication of the product code, the article and the quantity ordered, as well as their complete, exact and truthful tax data.

3.1 Any changes or additions to the order are subject to the Seller's express acceptance and must be communicated promptly, in order to avoid delays in delivery.

3.2 The sales contract for MAC SRL products is considered concluded after 5 (five) working days from the date of sending the Order Confirmation to the Customer, without any written communication from the Customer having occurred: the latter is required to check the correspondence and promptly report any omissions or errors, and return these General Conditions of Sale signed for acceptance.

The sales contract replaces any other commitment, contract or understanding, written or verbal, previously intervened between the parties.

3.3 Orders can be modified or cancelled no later than 5 (five) working days after sending the Order Confirmation. In the event of modification or cancellation after this deadline, MAC SRL reserves the right to request compensation of an amount as a percentage of the value of the original Order Confirmation, to be calculated based on the progress of the order at the time of the request to modify / cancel the order by the customer.

3.4 For orders with custom projects, what is stated in points 3.2 and 3.3 applies

4. TERMS OF PAYMENT - Payments must be made in currency, terms and conditions indicated in the proforma invoice / final invoice or Order Confirmation.

4.1 In case of non-payment within the agreed term, legal default interests will be charged to the Customer to the extent established by Legislative Decree no. 231/2002 as amended by Legislative Decree no. 192/2012. In the event of payment irregularities, MAC SRL reserves the right to block all shipments and orders in progress, without prior notice and is not required to pay any damages.

4.2 In no case, any defects and / or defects of the products, even if expressly recognized by MAC SRL, as well as any delays with respect to the agreed delivery dates or the failure or delayed collection of the same by the Customer, will give the latter the right to suspend the related payments, and / or any other payment due to MAC SRL under the contract or other contractual relationships.

5. TITLE RETENTION - In the event of deferred payments, the delivered products remain the property of MAC SRL until full payment of the price; the Customer therefore assumes the obligation to keep the products in perfect condition.

5.1 Failure to pay a single instalment exceeding the legal limits of tolerance, entitles the termination of the contract by MAC SRL, pursuant to art. 1526 of the Italian Civil Code. In any case, the Parties agree that the instalment(s) paid will remain acquired by MAC SRL as fair compensation for the use of the products. MAC SRL reserves the right to take legal action for compensation for the greater damage suffered. Products not fully paid for must be returned to MAC SRL at the expense of the customer.

6. TERMS OF DELIVERY - Unless otherwise agreed at the time of the order, the goods are intended as delivered ex-factory MAC SRL – Morciola di Vallefoglia – Italy and travel at the customer's risk. MAC SRL is released from the obligation to deliver the goods and from any material and moral liability in all cases of unforeseeable circumstances, force majeure, strikes, socio-political unrest or the impossibility of supplying raw materials. The Customer waives in advance to raise any dispute or claim in this regard.

6.1 The cost of shipments made by courier agreed with MAC SRL will be charged on the invoice.

6.2 The delivery date indicated in the order confirmation is only indicative. Any delays with respect to the indicated deadline will not constitute a sufficient title for claims for damages or other claims.

7. WARRANTY - All the products in the Price List are tested in the MAC SRL factory, in compliance with current CE standards and are free from defects in normal operating conditions and have a 24 (twenty-four) month warranty from the date of purchase certified by the invoice. of sale / purchase, which also reports the details of the products supplied. This guarantee period is to be considered firm and cannot be extended.

7.1 The warranty treatment cannot be recognized in the absence of the purchase documentation and in the event that the product is not subject to routine maintenance, as indicated in the maintenance sheets in the product manual. These maintenance sheets must be duly completed, dated and signed by the customer and the maintenance technician and exhibited together with the relative invoice for the maintenance.

7.2 MAC SRL's guarantee consists in restoring the original conformity, by repairing or replacing the components or materials recognized as defective.

The goods to be repaired must arrive at the MAC SRL headquarters properly packaged and free of transport. Return shipping will be done by MAC SRL, without any charge to the Client.

7.3 If MAC SRL should receive a product under warranty to be repaired which works, it will apply the basic fee of 50 euros as a contribution for the checks and inspections carried out on the product and the cost of return transport will be carried out by the Client.

7.4 The MAC SRL guarantee cannot be applied in the following cases / reasons: burning of any component or accessory caused by events external / external to normal operation; failures due to external factors: electrical discharges, even accidental impacts, tampering, including accidental, exposure to humidity or steam, use in extreme thermal conditions, floods or other natural disasters; unauthorized tampering or repairs of parts or products; use of non-original spare parts; defects caused by chemical agents and / or atmospheric phenomena; failures caused by a system not performed according to the instructions provided by the company; breakdowns caused by improper use or neglect of use; damage caused by transport.

7.5 Repairing or replacing parts during the original warranty period does not extend the warranty expiration period. The repaired product remains under warranty for the remaining period, up to the expiry of 24 months, from the date of the original supply invoice.

7.6 Obsolete or out of production products or components will be replaced with others having similar characteristics.

7.7 The validity and applicability of the warranty is subject to compliance with the technical characteristics and installation methods expressly indicated in the technical manuals. The guarantee becomes invalid in cases where MAC SRL products are integrated with products and / or accessories that are not authorized or unrelated to this Price List.

7.8 The warranty does not cover the cost of returning the defective products by the customer.

7.9 The warranty does not include the cost of consumables, installation, maintenance, alleged defects or convenience checks, etc. It does not include any compensation for the period of inactivity of the place where the products are installed.

7.10 MAC SRL is not liable for any damage, direct or indirect, caused to people, things or animals by damage, from non-compliant use, from incorrect installation, from use exceeding the technical limits of the product (capacity, frequency, use, etc.). The customer cannot request or claim compensation for indirect damage, lost profits or loss of production.

8. OUT OF WARRANTY REPAIR - The goods to be repaired must arrive at the MAC SRL headquarters properly packaged and free of transport.

8.1 Upon receipt of goods out of warranty to be repaired by MAC SRL, this will submit the repair estimate to the Customer, who will be free to decide whether to proceed with the repair or not. In the event of a negative outcome, the goods will be returned to the customer with transport charged to him/her.

8.2 In case of positive response, the repair will proceed. The costs of repair, replacement of parts and

transport (if organized by MAC SRL) are charged on the invoice.

8.3 If MAC SRL should receive an out of warranty product to be repaired which is functioning, it will apply the basic fee of 50 euros as a contribution for the checks carried out on the product.

9. RETURNS AND COMPLAINTS - When the customer receives the goods, he is required to verify their integrity and correspondence with the data indicated in the accompanying delivery note. In the event of irregularities or obvious damage to the packaging or goods, the Customer is required to inform MAC SRL via email, attaching the relative photographic and sales documentation within 24 hours of delivery, risk of forfeiture of the right to complain. Complaints are not accepted without immediate notification to the carrier, to whom the buyer must issue a note of "acceptance of the goods with reserve".

9.1 Any returns of new goods will be accepted upon written agreement between MAC SRL and the Client, in original packaging and carriage paid.

10. FORCE MAJEURE - Force majeure means any unforeseeable act or event, independent of the will of MAC SRL, which cannot be promptly remedied (e.g. embargo, turmoil, economic restrictions, war, strikes, natural disasters, impossibility of finding raw materials, energy, transport, etc.). No type of compensation or penalty to be paid by MAC SRL can be requested in these cases.

11. BRAND AND INTELLECTUAL PROPERTY - MAC SRL is a registered trademark.

11.1 MAC SRL expressly forbids the Client to use, exploit, advertise the trademark affixed to its products for purposes unrelated to this contract, unless expressly authorized in writing by the same.

11.2 MAC SRL expressly prohibits the removal or alteration of trademarks and other distinctive signs or acronyms of any kind originally affixed to the products. Likewise, it is not possible to affix new or any other marks.

11.3 MAC SRL reserves the right to inhibit the use of its trademark in the event of violation of this prohibition and / or in the event of non-payment of the price by the Customer and, in any case in which it deems it illegal to use it by of the Customer, both in offline and online mode.

11.4 MAC SRL reserves the right to take legal action to request compensation for damage by counterfeiting the trademark and subject to any other action to protect its rights.

12. PROHIBITION OF ACTS OF REGULATION - The Customer undertakes not to resell, sell to third parties or to guarantee the products without having first paid the full price to MAC SRL, unless otherwise agreed.

12.1 If any executive procedures, however named, at the request of third parties affect the delivered products, the Customer must immediately notify MAC SRL via email or registered mail. Failing that, MAC SRL will have the right to terminate the Contract with immediate effect, withholding the amounts already paid as a penalty and without prejudice to further damages.

13. RESELL - In respect of the contractual freedom of the customer, MAC SRL suggests to the customer to follow the price list recommended by MAC SRL.

13.1 Due to the technical and operational characteristics of its products and the legislation on their installation, maintenance and safety, MAC SRL draws the customer's attention to the opportunity to ensure that third parties who come into contact with the products are provided with suitable professional qualification. Otherwise, MAC SRL will not be held responsible for any third party claim or action.

14. SURCHARGE - Any extra of orders are considered governed by these General Conditions of Sale. The delivery of the products relating to the order supplement will take place according to the return conditions agreed with the Customer. The supplements requested after 5 working days from the sending of the Order Confirmation by MAC SRL could lead to delays in delivery.

15. TAXES AND DUTIES - Any taxes, duties, taxes, licenses, authorizations, permits and / or other charges of a fiscal and / or customs and / or administrative nature, however denominated, provided for by the legislation of the State of importation of the products and / or by the legislation of the State in to which the products will be resold, are entirely and exclusively borne by the Customer, except as provided for by the agreed delivery deadline.

16. AUTHENTIC TEXT - This contract is drawn up in Italian, to be understood as the only authentic text. In case of translation into other languages, the relative texts must be considered as mere working documents.

17. WAIVERS - In the event that MAC SRL does not assert, at any time, the rights recognized by one or more clauses of the Contract cannot be understood as a general renunciation of these rights, it will prevent MAC SRL from subsequently demanding their punctual and rigorous compliance.

18. INDISSOLUBILITY - In the eventual nullity or ineffectiveness of one of the clauses of these General Conditions of Sale, for whatever reason this occurs, the Contract will remain valid in its entirety.

19. JURISDICTION - For any dispute relating to the interpretation, execution and / or termination of the Contract, the court of Pesaro (Italy) will have exclusive jurisdiction.

19.1 In any case, MAC SRL has the right to take legal action, even on a precautionary or provisional basis, in front of the forum where the Customer's home is located, according to art. 63 of Regulation (EU) no. 1215/2012 of the European Parliament and of the Council of 12 December 2012 concerning jurisdiction, the recognition and execution of decisions in civil and commercial matters, and subsequent amendments.

20. APPLICABLE LAW - The law applicable to the Contract is Italian law, meaning in any case excluding the application of the United Nations Convention on the International Sale of Movable Goods to the Contract (Vienna Convention 11 April 1980).

21. TECHNICAL INFORMATION – QUALITY SYSTEM - The Customer is aware that the range of goods supplied by MAC SRL is made up of mechanical, automatic, electronic products and their accessories, whose manufacture, marketing, installation and maintenance are subject to specific regulations; therefore, their distribution and installation requires the intervention of qualified and specialized professionals, who guarantee the customer complete information on the technical and operational characteristics of the products, their correct installation and safety in use. The customer is aware that all automations fall within the scope of the Machinery Directive 2006/42 / CE and subsequent amendments, with all legal consequences for dealers and installers, and with the obligation to keep the product's technical file and maintenance and CE declaration of conformity.

21.1 In consideration of the above, the customer must be qualified in the sale or installation of the products and, as such, must:

- have previous experience with a minimum duration of one (1) year in the sector of the sale and / or installation of products similar to those of MAC SRL;
- provide the end user with the consultancy service to guide him in choosing and purchasing the most suitable product for the intended use, in order to reduce the risk of misuse;
- be able to provide the end user with the most accurate and complete information on the products (including the applicable rules for their installation), according to the questions asked by the end user.

It is expressly understood that, in light of the above, and to ensure the safety of end users in the use of MAC SRL products, the Client is authorized to resell the products to the following categories:

- any professional buyer, distributor and / or installer;
- to each end user, after appropriate verification that the installation of MAC SRL products is carried out by a professional installer.

CONDIZIONI GENERALI DI VENDITA

1. MODALITÀ DI APPLICAZIONE - Le presenti Condizioni Generali di Vendita sostituiscono le precedenti e si applicano a tutti gli ordini relativi a prodotti a marchio "MAC SRL". Esse costituiscono parte integrante della Conferma d'Ordine e prevalgono su qualsiasi condizione di acquisto predisposta dal Cliente (in qualità di Compratore).

1.1 Il presente Listino Prezzi è riservato esclusivamente ai clienti diretti della MAC SRL (in qualità di Venditore). Laddove siano già in vigore tra le Parti accordi commerciali e/o singoli contratti di fornitura dei prodotti, le presenti Condizioni Generali di Vendita sono da considerarsi un'integrazione di questi. In caso di contrasto, prevalgono le condizioni generali di vendita.

In nessun caso il presente Listino Prezzi può impegnare MAC SRL verso gli acquirenti (utenti) finali dei prodotti, in quanto riservato esclusivamente ai clienti diretti di MAC SRL.

2. PREZZI - La vendita dei prodotti MAC SRL si effettua secondo il Listino Prezzi in vigore al momento dell'ordine. MAC SRL si riserva il diritto di modificare il proprio Listino Prezzi senza preavviso in qualsiasi momento, qualora si verificassero mutamenti di costi non imputabili a essa.

2.1 I prezzi del presente Listino non includono le spese di imballaggio e devono intendersi per merce franco stabilimento di Via Enrico Mattei 9, Morciola di Vallefoglia (PU), 61022, Italia. I costi di imballaggio sono da calcolarsi sul valore netto acquistato e sono pari al 1% (minimo 10 euro). Per quanto riguarda imballi speciali richiesti dal Cliente o bancali fumigati, il costo sarà calcolato sul prezzo pagato per tali imballi da MAC SRL. I prezzi indicati sono in valuta Euro ed non comprensivi di IVA. L'ultimo Listino emesso da MAC SRL annulla tutti i precedenti.

3. PREVENTIVI E ORDINI - Le offerte formulate da MAC SRL, salvo diversi accordi, hanno validità di 60 giorni dalla data dell'invio. Gli ordini devono essere inviati in forma scritta dal Cliente a MAC SRL con l'indicazione del codice prodotto, dell'articolo e della quantità ordinata, nonché dei propri dati fiscali completi, esatti e veritieri.

3.1 Eventuali modifiche o integrazioni all'ordine sono soggette a espressa accettazione del Venditore e devono essere comunicati tempestivamente, al fine di evitare ritardi nella consegna.

3.2 Il contratto di vendita dei prodotti MAC SRL si intende concluso trascorsi 5 (cinque) giorni lavorativi dalla data di invio della Conferma d'Ordine al Cliente, senza che sia intervenuta alcuna comunicazione scritta da parte del Cliente: quest'ultimo è tenuto a controllare la propria corrispondenza e a segnalare tempestivamente eventuali omissioni o errori, e a restituire le presenti Condizioni Generali di Vendita firmate per accettazione. Il contratto di vendita sostituisce ogni altro impegno, contratto o intesa, scritta o verbale, intervenuto in precedenza tra le parti. 3.3 Gli ordini potranno essere modificati o annullati entro e non oltre 5 (cinque) giorni lavorativi successivi all'invio della Conferma d'Ordine. In caso di modifica o annullamento dopo tale termine, MAC SRL si riserva il diritto di richiesta di indennizzo di un importo in percentuale rispetto al valore della Conferma d'Ordine originaria, da calcolare in base allo stato di avanzamento dell'ordine al momento della richiesta di modifica / annullamento dell'ordine da parte del cliente.

3.4 Per gli ordini con progetti su misura vale quanto dichiarato ai punti 3.2 e 3.3

4. CONDIZIONI DI PAGAMENTO - I pagamenti devono essere effettuati in valuta, termini e modalità indicati nella fattura proforma / fattura finale o Conferma d'Ordine.

4.1 In caso di mancato pagamento entro il termine pattuito, si darà luogo ad addebito di interessi legali di mora a carico del Cliente nella misura stabilita dal D. Lgs. n. 231/2002 come modificato dal D.Lgs. n. 192/2012. In caso di irregolarità di pagamento, MAC SRL si riserva il diritto di bloccare tutte le spedizioni e gli ordini in corso, senza alcun preavviso e non è tenuta al risarcimento di alcun danno.

4.2 In caso di cassa, eventuali vizi e/o difetti dei prodotti, quando anche espressamente riconosciuti da MAC SRL, nonché eventuali ritardi rispetto alle date di consegna convenute o il mancato o ritardato ritiro delle stesse da parte del Cliente, conferiranno a quest'ultimo la facoltà di sospendere i relativi pagamenti, e/o qualsiasi altro pagamento dovuto a MAC SRL in forza del contratto o di altri rapporti contrattuali.

5. RISERVA DI PROPRIETÀ - In caso di pagamenti dilazionati, i prodotti consegnati restano di proprietà di MAC SRL fino all'integrale pagamento del prezzo; il Cliente assume quindi l'obbligo di mantenere i prodotti in perfetto stato di conservazione.

5.1 Il mancato pagamento di una sola rata eccedente i limiti legali di tolleranza, dà diritto alla risoluzione del contratto da parte di MAC SRL, ai sensi dell'art. 1526 c.c. In ogni caso, le Parti convengono che la/e rata/e pagata/e resti/no acquisite a MAC SRL a titolo di indennità ed equo compenso per l'uso dei prodotti. È espressamente fatta salva la riserva di MAC SRL di agire in giudizio per il risarcimento del maggior danno subito. I prodotti non integralmente pagati dovranno essere restituiti a MAC SRL a carico del Cliente.

6. TERMINI DI CONSEGNA - Salvo diversamente concordato al momento dell'ordine, la merce si intende resa franco stabilimento MAC SRL – Morciola di Vallefoglia – Italia e viaggia a rischio e pericolo del Cliente. MAC SRL è liberata dall'obbligo di consegna della merce e da ogni responsabilità materiale e morale in tutte le ipotesi di caso fortuito di forza maggiore, di scioperi, disordini socio-politici o di impossibilità di approvvigionamento delle materie prime. Il Cliente rinuncia preventivamente a sollevare qualsiasi contestazione o pretesa a tal proposito.

6.1 Il costo delle spedizioni effettuate a mezzo corriere convenzionato con MAC SRL sarà addebitato in fattura.

6.2 La data di consegna indicata nella conferma d'ordine ha valore esclusivamente indicativo. Eventuali ritardi rispetto al termine indicato non costituiranno titolo sufficiente per richieste risarcitorie o altre rivendicazioni.

7. GARANZIA - Tutti i prodotti presenti nel Listino Prezzi sono collaudati e testati nello stabilimento di MAC SRL, in conformità alle norme vigenti CE e sono esenti da difetti nelle normali condizioni di funzionamento e hanno una garanzia di 24 (ventiquattro) mesi dalla data di acquisto certificata dalla fattura di vendita/acquisto, la quale riporta anche gli estremi dei prodotti forniti. Detto periodo di garanzia è da ritenersi fermo e improrogabile.

Il trattamento di garanzia non potrà essere riconosciuto in mancanza della documentazione di acquisto e nel caso in cui il prodotto non è sottoposto alla manutenzione ordinaria, come indicato nelle schede di manutenzione presenti nel manuale del prodotto. Tali schede di manutenzione dovranno essere debitamente compilate, datate e firmate dal cliente e dal manutentore ed esibite congiuntamente alla relativa fattura dell'avvenuta manutenzione.

7.1 Il compratore decade dalla garanzia se non denuncia per iscritto i vizi entro 30 giorni dalla scoperta. Resta a carico del compratore fornire tutti gli elementi che dimostrino i vizi dei prodotti MAC SRL.

7.2 La garanzia di MAC SRL consiste nel ripristino della conformità originaria, mediante riparazione o sostituzione dei componenti o dei materiali riconosciuti difettosi. La merce da riparare deve pervenire presso la sede di MAC SRL adeguatamente imballata e franca di trasporto.

Il trasporto di ritorno sarà a cura di MAC SRL, senza alcun addebito al Cliente.

7.3 Se MAC SRL dovesse ricevere un prodotto in garanzia da riparare il quale risultasse funzionante, questa applicherà la tariffa base di 50 euro come contributo per i controlli e le verifiche effettuate sul prodotto e il costo del trasporto di ritorno sarà a carico del Cliente.

7.4 La garanzia di MAC SRL non potrà essere applicata nei seguenti casi/motivi: bruciatura di qualsiasi componente o accessorio causati da eventi estranei/esterni al normale funzionamento; guasti dovuti a fattori esterni: scariche elettriche, urti anche accidentali, manomissioni anche accidentali, esposizione all'umidità o al vapore, utilizzo in condizioni termiche estreme, inondazioni o altre calamità naturali; manomissioni o riparazioni non autorizzate di pezzi o prodotti; impiego di pezzi di ricambio non originali; difetti causati da agenti chimici e/o fenomeni atmosferici; guasti determinati da un impianto non eseguito secondo le istruzioni fornite dall'azienda; guasti determinati da un uso improprio o da incuria nell'uso; avarie o danni causati dal trasporto.

7.5 La riparazione o sostituzione dei pezzi durante il periodo di garanzia originaria non comporta un prolungamento del termine di scadenza della garanzia stessa. Il prodotto riparato rimane in garanzia per il periodo restante, fino alla scadenza dei 24 mesi, a scalare dalla data della fattura originaria di fornitura.

7.6 I prodotti o componenti obsoleti o fuori produzione verranno sostituiti con altri aventi caratteristiche simili.

7.7 La validità e l'applicabilità della garanzia è subordinata al rispetto delle caratteristiche tecniche e delle modalità di installazione espressamente indicate nei manuali tecnici che accompagnano i prodotti. La garanzia perde validità nei casi in cui i prodotti MAC SRL siano integrati con prodotti e/o accessori non autorizzati o estranei al presente Listino Prezzi.

7.8 La garanzia non copre le spese di reso dei prodotti difettosi da parte del Cliente.

7.9 La garanzia non comprende il costo per i materiali di consumo, per le attività di installazione, di manutenzione, per vizi presunti o verifiche di comodo, ecc. Non comprende eventuali indennizzi per il periodo di inoperatività dell'impianto dove i prodotti sono installati.

7.10 MAC SRL non risponde di eventuali danni, diretti o indiretti, causati a persone, cose o animali da avarie, da un utilizzo non conforme, da un'errata installazione, da un impiego eccedente i limiti tecnici del prodotto

(portata, frequenza, utilizzo, ecc.). Il Cliente non potrà richiedere o pretendere il risarcimento di danni indiretti, mancati profitti o perdita di produzione.

8. RIPARAZIONI FUORI GARANZIA - La merce da riparare deve pervenire presso la sede di MAC SRL adeguatamente imballata e franca di trasporto.

8.1 Al momento del ricevimento di merce fuori garanzia da riparare da parte di MAC SRL, questa sottoporà il preventivo della riparazione al Cliente, il quale sarà libero di decidere se procedere con la riparazione o meno. In caso di esito negativo, si procederà al ritorno della merce al Cliente a suo carico.

8.2 In caso di esito positivo, si procederà con la riparazione. I costi di riparazione, sostituzione pezzi, manodopera e trasporto (se organizzato da MAC SRL) sono addebitati in fattura.

8.3 Se MAC SRL dovesse ricevere un prodotto fuori garanzia da riparare il quale risultasse funzionante, questa applicherà la tariffa base di 50 euro come contributo per i controlli e le verifiche effettuate sul prodotto.

9. RESI E RECLAMI - Nel momento in cui il Cliente riceve la merce è tenuto a verificarne l'integrità e la corrispondenza rispetto ai dati indicati nel DDT di accompagnamento. In caso di irregolarità o danni evidenti all'imballo o alla merce, il Cliente è tenuto a informare MAC SRL via email, allegando la relativa documentazione fotografica e di vendita entro 24 ore dall'avvenuta consegna, rischio decadenza del diritto al reclamo. Non si accettano reclami senza segnalazione immediata al trasportatore, al quale il compratore dovrà rilasciare nota di "accettazione della merce con riserva".

9.1 Eventuali resi di merce nuova saranno accettati previo accordo scritto tra MAC SRL e il Cliente, in imballo originale e in porto franco.

10. FORZA MAGGIORE - Per forza maggiore si intende ogni atto o evento imprevedibile, indipendente dalla volontà di MAC SRL, al quale non è possibile tempestivamente porre rimedio (es: embargo, tumulto, restrizioni economiche, guerra, scioperi, calamità naturali, impossibilità di reperimento materie prime, energia, trasporti, ecc.) Nessun tipo di indennizzo o penalità a carico di MAC SRL può essere richiesto in questi casi.

11. MARCHIO E PROPRIETÀ INTELLETTUALE - MAC SRL è un marchio registrato.

11.1 MAC SRL fa espresso divieto al Cliente di utilizzare, sfruttare, pubblicizzare il marchio apposto nei propri prodotti per scopi estranei al presente contratto, salvo espressa autorizzazione scritta da parte della stessa.

11.2 MAC SRL fa espresso divieto di rimuovere o alterare i marchi e altri segni distintivi o sigle di qualsiasi genere apposti in origine sui prodotti. Allo stesso modo, non è possibile apporre marchi nuovi o di qualsiasi altra natura.

11.3 MAC SRL si riserva il diritto di inibire l'utilizzo del proprio marchio in caso di violazione del presente divieto e/o in caso di mancato pagamento del prezzo da parte del Cliente e, in ogni caso in cui ne ritenga illegittimo l'utilizzo da parte del Cliente, sia in modalità offline che online.

11.4 MAC SRL si riserva il diritto di agire in giudizio per richiedere il risarcimento del danno per contraffazione del marchio e con riserva di ogni altra azione a tutela dei propri diritti.

12. DIVIETO DI ATTI DI DISPOSIZIONE - Il Cliente si impegna a non rivendere, cedere a terzi o a costituire in garanzia i prodotti senza averne prima pagato integralmente il prezzo a MAC SRL, salvo diversi accordi.

12.1 Qualora eventuali procedure esecutive, comunque denominate, su istanza di terzi colpissero i prodotti consegnati, il Cliente dovrà darne immediata comunicazione sia via mail che via raccomandata a MAC SRL. In difetto, MAC SRL avrà diritto di risolvere il Contratto con effetto immediato, trattenendo a titolo di penale gli importi già pagati e salvi gli ulteriori danni.

13. RIVENDITA - Nel rispetto della libertà contrattuale del Cliente, MAC SRL suggerisce al Cliente di attenersi al listino consigliato da MAC SRL.

13.1 In ragione delle caratteristiche tecniche e operative dei propri prodotti e della normativa in materia di installazione, manutenzione e sicurezza degli stessi, MAC SRL richiama l'attenzione del Cliente sulla opportunità di assicurarsi che i soggetti terzi che entrano in contatto con i prodotti siano provvisti di idonea qualifica professionale. In caso contrario, MAC SRL non sarà ritenuta responsabile per qualsivoglia pretesa o azione di terzi.

14. SUPPLEMENTI - Eventuali supplementi di ordini si intendono regolati dalle presenti Condizioni Generali di Vendita. La consegna dei prodotti relativi al supplemento d'ordine avverrà secondo le condizioni di resa concordate con il Cliente. I supplementi richiesti dopo i 5 giorni lavorativi dall'invio della Conferma d'Ordine da parte di MAC SRL potrebbero comportare ritardi nella consegna.

15. IMPOSTE E DAZI - Eventuali tasse, imposte, dazi, tributi, licenze, autorizzazioni, permessi e/o altri oneri di natura fiscale e/o doganale e/o amministrativa comunque denominati, previsti dalla normativa dello Stato di importazione dei prodotti e/o dalla normativa dello Stato in cui i prodotti saranno rivenduti, sono interamente ed esclusivamente a carico del Cliente, fatto salvo quanto previsto dal termine di resa concordato.

16. TESTO FACENTE FEDE - Il presente contratto è redatto in lingua italiana, da intendersi come unico testo facente fede. In caso di traduzione in altre lingue, i testi relativi dovranno ritenersi come meri documenti di lavoro.

17. RINUNCIA - Nella circostanza in cui MAC SRL non faccia valere, in un qualsiasi momento, i diritti ad essa riconosciuti da una o più clausole del Contratto non potrà essere intesa come rinuncia generale a tali diritti, né impedirà a MAC SRL di pretendere successivamente la puntuale e rigorosa osservanza.

18. INSCINDIBILITÀ - Nell'eventuale nullità o inefficacia di una delle clausole delle presenti Condizioni Generali di Vendita, per qualsiasi causa questa intervenga, il Contratto resterà valido nella sua interezza.

19. FORO COMPETENTE - Per qualsiasi controversia relativa all'interpretazione, esecuzione e/o risoluzione del Contratto, sarà competente in via esclusiva il foro di Pesaro (Italia).

19.1 È comunque fatta salva la facoltà di MAC SRL di agire in giudizio, anche in via cautelare o provvisoria, davanti il foro dove si trova il domicilio del Cliente, secondo l'art. 63 del Regolamento (UE) n. 1215/2012 del Parlamento Europeo e del Consiglio del 12 dicembre 2012 concernente la competenza giurisdizionale, il riconoscimento e l'esecuzione delle decisioni in materia civile e commerciale, e successive modifiche.

20. LEGGE APPLICABILE - La legge applicabile al Contratto è quella italiana, intendendosi in ogni caso esclusa l'applicazione al Contratto della Convenzione delle Nazioni Unite sulla Vendita Internazionale di beni mobili (Convenzione di Vienna 11 aprile 1980).

21. INFORMATICA TECNICA – SISTEMA DI QUALITÀ - Il Cliente è a conoscenza che la gamma di merce fornita da MAC SRL è costituita da prodotti meccanici, automatici, elettronici e dai loro accessori, la cui fabbricazione, commercializzazione, installazione e manutenzione sono sottoposte a specifica normativa; pertanto, la loro distribuzione e installazione richiede l'intervento di professionisti qualificati e specializzati, che garantiscano al Cliente la completa informazione sulle caratteristiche tecniche e operative dei prodotti, la loro corretta installazione e la sicurezza nell'utilizzo. Il Cliente è consapevole che tutte le automazioni rientrano nel campo di applicazione della Direttiva Macchine 2006/42/CE e successive modifiche, con ogni conseguenza di legge a carico di rivenditori e installatori, e con obbligo di conservazione del fascicolo tecnico del prodotto, di manutenzione e di dichiarazione CE di conformità.

21.1 In considerazione di quanto indicato precedentemente, il Cliente deve essere qualificato nella vendita o installazione dei prodotti e, come tale, deve:

- avere un'esperienza pregressa con una durata minima di un (1) anno nel settore della vendita e/o installazione di prodotti analoghi a quelli di MAC SRL;
- fornire all'utente finale il servizio di consulenza per guidarlo nella scelta e acquisto del prodotto più adatto per la destinazione d'uso prevista, al fine di ridurre il rischio di un uso improprio;
- essere in grado di fornire all'utente finale le informazioni più accurate e complete sui prodotti (comprende le norme applicabili per la loro installazione), in funzione delle domande poste da parte dell'utente finale.

Resta espressamente inteso che, alla luce di quanto sopra, e per garantire la sicurezza degli utenti finali nell'utilizzo dei prodotti MAC SRL, il Cliente è autorizzato a rivendere i prodotti alle seguenti categorie:

- qualsiasi acquirente professionale, distributore e/o installatore;
- a ogni utente finale, previa idonea verifica che l'installazione dei prodotti MAC SRL sia effettuata da un installatore professionista.



MAC SRL

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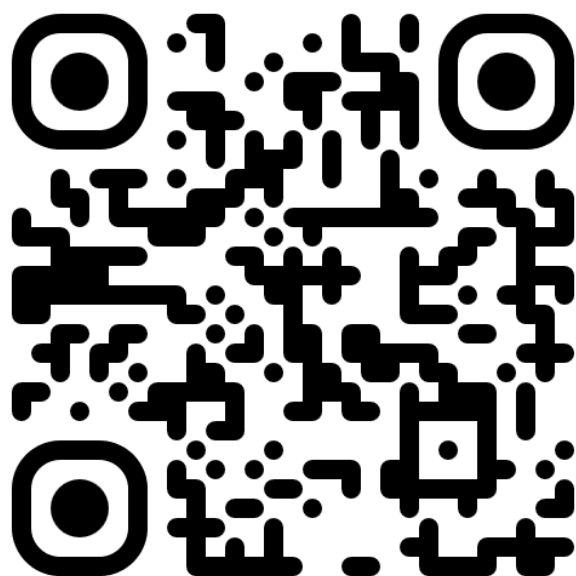
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