



INTRODUCTION

While establishing Arma Kontrol in 2006, our goal was to ensure that the whole world recognize the name of a Turkish company in the security sector. When we look at our past for 12 years, we can see the logo of Arma Kontrol in different projects not only in Turkey but also in many countries of the world as well. As one of the most prominent companies in the industry, where we have completed our productions, we are constantly working and developing with our security barrier system to make our living spaces more reliable.

We also show our quality with international certifications. We are proud of being the first Turkish company that has been developed by Turkish engineers and has the certificates of Road Blocker and Rising Bollard produced in Turkey. Thousands of projects from public institutions to historical sites, airports to tunnels, banks to shopping centers, from industrial zones in Turkey to the construction sector, our products are shown with the aim of creating more reliable environment. We take our sustainable cooperation not only with our products but also with our aftersales service as our priorities. We are proud of being a Turkish brand and we share with our customers the excitement of being a rapidly growing brand demanded in the global area.

We show you the work we have done to keep up the momentum of success that has been rising since our establishment. We will proceed with our valued business partners step by step to become a brand that makes a name from around the world by adding innovations to our success.



OUR POWER HAS BEEN APPROVED!



Crash Test - M50 Rating
American Certification ASTM F2656-07
Performed at Aisico SRL.
Crash Test Center, Pereto (Aq) - Italy



Crash Test - M40 Rating
American Certification ASTM F2656-07
Performed at Aisico SRL.
Crash Test Center, Pereto (Aq) - Italy



Crash Test - Rating PAS68:2013
British Test Standards
Performed at Aisico SRL.
Crash Test Center, Pereto (Aq) - Italy






Crash Test - Rating IWA 14-1:2013
International Workshop Agreement
Performed at Aisico SRL.
Crash Test Center, Pereto (Aq) - Italy

The Ministry of Transport, Department of Land Transport, The Directorate General of Motors, the Italian agency is responsible for defining the electrical and/or mechanical equipment that is installed on all public roads in Italy.

Arma Kontrol products were the first in Italy to exceed the stringent testing and inspections carried out by the aforementioned Ministry, obtaining two approvals that formalise the installation of Arma Kontrol bollards on all Italian public roads.

PAS68 / K12-ASTM / IWA

Comparing the UK, USA and International Specifications

	<div>BRITISH TEST STANDARDS</div> <div></div> <div>7.5t</div>	<div>USA TEST STANDARDS</div> <div></div> <div>6.8t</div>			<div>INTERNATIONAL TEST STANDARDS</div> <div></div> <div>7.5t</div>
Test Method	PAS68	DOS-K12	ASTM M50		IWA 14-1
Vehicle Category	Truck with 7.5t gross vehicle weight	Truck with 6.8t gross vehicle weight	Truck with 6.8t gross vehicle weight		Truck with 7.5t gross vehicle weight
Vehicle weight in tons, kilograms and pounds	7.5 tons 7500 kg 15000lbs	6.8 tons 6800 kg 15000lbs	6.8 tons 6800 kg 15000lbs		12 tons 12000 kg 24000lbs
Vehicle Speed (km/h)	80	80	80		80
Vehicle Speed (mph)	50	50	50		50
Impact Energy in kJ	1852	1695	1695		2988



IWA 14.1 & 14.2

International Workshop Agreement

A new international ISO International Workshop Agreement that combines and updates elements from PAS68, PAS69, ASTM F 2656 and CWA 16221, as well as new content.

PART 1: PERFORMANCE

The vehicle impact test method and performance rating.

IWA 14-1:2013 is the International Workshop Agreement which specifies the essential impact performance requirement for a vehicle security barrier (VSB) and a test method for rating its performance when subjected to a single impact by a test vehicle not driven by a human being.

PART 2: APPLICATION

IWA 14-2:2013 provides guidance for the selection, installation and use of vehicle security barriers (VSBs) and describes the process of producing operational requirements (ORs). It also gives guidance on a design method for assessing the performance of a VSB.



BSI PAS68

British Standards Institute Publicly Available Specification

BSI PAS68 is the latest BSI's Publicly Available Specification for vehicle security barriers. It has become the UK's standard and the security industry's benchmark for HVM (Hostile Vehicle Mitigation) equipment, and is the specification against which perimeter security equipment is tested as part of the ongoing research to prevent VBIED (Vehicle Bom Improvised Explosive Device) attacks. BSI PAS68 complements this specification by providing guidance on the installation of the tested product.

The ratings and specifications illustrate the different levels of BSI PAS68. The importance of after sales and who should maintain your equipment is another aspect which should be considered. BSI PAS68 should be considered to ensure this equipment is installed correctly.

France and Australia have adopted the British PAS68 specification.



ASTM AND DEPARTMENT OF STATE K12

Standards for the United States of America

ASTM (previously K12 standard) Designation: F 2656-07

Standard Test Method for Vehicle Crash Testing of Perimeter Barriers. This standard superseded the Department of State K ratings, as explained below:

M50-P1 = 6.8t @ 80kph
(K12) (15,000lbs @ 50mph)

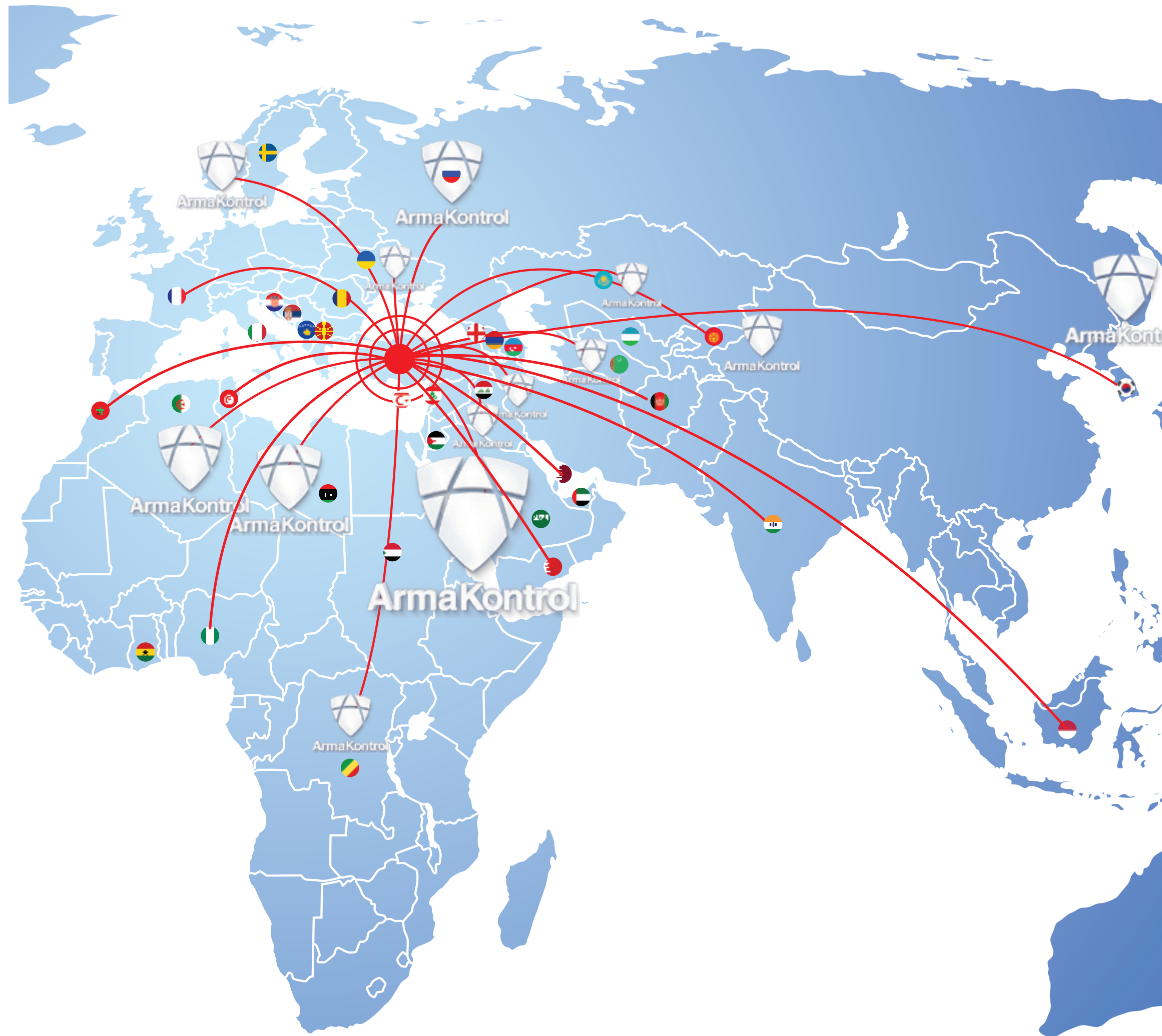
M40-P1 = 6.8t @ 64kph
(K8) (15,000lbs @ 40mph)

M30-P1 = 6.8t @ 48kph
(K4) (15,000lbs @ 30mph)

M	50	P1
Test Vehicle (i.e Medium duty truck 6800kg)	Test Speed (mph)	Penetration (i.e 23-98ft)
M	50	P1 ≤ 1m (3.3ft)
M	40	P2 1.01m to 7m (3.3ft to 23.1ft)
M	30	P3 7.01m to 30m (23.1ft to 98.4ft)
M	20	P4 30m (98ft) or greater



12 YEARS,
42 COUNTRIES,
3385 COMPANIES
**AND THIS IS JUST
THE BEGINNING**



Anti-Terror Barrier Systems
ARMAKONTROL



ANTI-TERROR HIGH SECURITY ROAD BLOCKER

ATRB-3110 Series

Road blocker is the most commonly-used system in the areas such as military facilities, government buildings, embassies, production facilities, oil refineries, hotels, airports and stadiums where the entries-exits must be made in a controlled and safe manner against any vehicle attacks.

The system's case is designed as resistant to hits by vehicles, and all relevant components of the systems are strengthened against any attacks. Arma Kontrol's Blocker Systems work uninterruptedly even at the highest-density places thanks to the hydraulic operation system. This system is synchronized with the rising bollard and other safety systems, and keeps the defense at the maximum level in case of possible attacks, and thus ensures the secure entrance of the vehicles into relevant areas.

Patent No 2012/13979



Technical Specifications

Road Blocker Height	1100mm
Road Blocker Width Options	2000mm to 6000mm
Wall Thickness	30mm
Material of the Moving Part	ST44
Finish	Powder Coated
Drive Movement	Hydraulic Driven
Motor Power	3 to 7.5 Kw
Power Supply	3 Phase 380 V (±10) AC, 50/60 HZ
Rising / Falling Time	8-10 sec.
Axle Load	30 Tons
Impact Resistant (without deformation)	2.988 KJ
Control Panel	PLC (Programmable Logic Controller)
Safety Support	Loop Detector
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Operating Temperature	-25°C - +50°C
Protection Class	IP 67

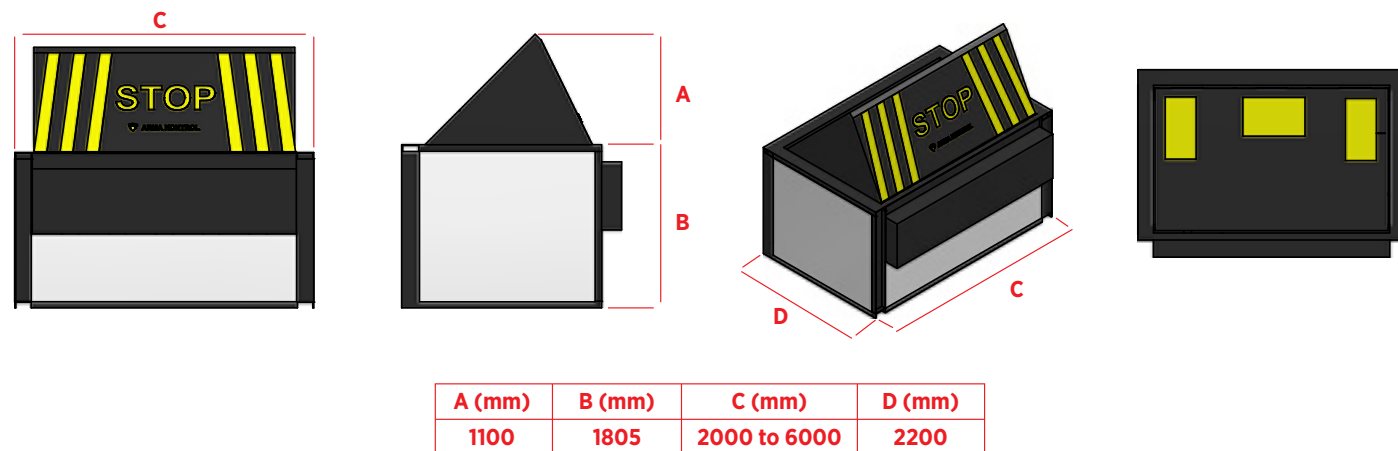
Optional Specifications

Manual Lifting	Hand Pump
Operating Temperature	-40°C to +75°C
Hydraulic System Heating - Cooling	Available
Warning Equipment	Flasher -Traffic Light
EFO (Emergency Fast Operation)	1.5 - 2 sec.
System Security Support	Safety Photocell

Images



Technical Drawing



ANTI-TERROR HIGH SECURITY ROAD BLOCKER

12.000 kg - 80 km/h

Arma Kontrol High Security Road Blocker is specially designed to prevent passage of any unauthorized vehicles with high security system and it is strengthened against attacks.

Anti-terror Road Blocker, 12.000 kg (12 Tons) truck crashed at a speed of 80 Km/h in a crash test in Europe, then stopped the truck and continued to function without any problems afterwards. Therefore it became internationally certificated. Arma Kontrol is the first Turkish company that passed IWA14-1, ASTM, PAS68 crash tests and became entitled to get P1 certificate.

Standards : ASTM F2656-15 C750-K12
PAS68 2013- N3 7500-80
IWA 14-1:2013 N3D 12000- 80



ANTI-TERROR HIGH SECURITY BOLLARD

ATB-7110 Series

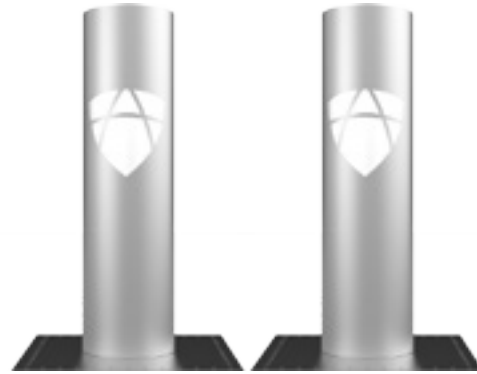
Arma Kontrol High-Security / PAS68 Rising Bollard is a security product specifically designed for risks of any kind of assassination with a vehicle.

Produced specifically for areas with high levels of security, its operation system, impact resistance and use are completely different from other standard products.

License Plate Recognition, Automatic Access System (AAS), Card Readers, etc. can be integrated into the system.

Besides being a producer, Arma Kontrol also provides special solutions to its customers, conducting a risk analysis of the area with its security staff and engineers.

Patent No 2012/12603



Technical Specifications

Bollard Height	1100mm
Bollard Diameter	300mm
Wall Thickness	30mm
Material of the Moving Part and Case	ST44
Finish	Powder Coated
Drive Movement	Hydraulic Driven
Motor Power	2.2 to 7.5 Kw
Power Supply	3 Phase 380 V (±10) AC, 50/60 HZ
Rising / Falling Time	8-10 sec.
Axle Load	30 Tons
Impact Resistant (without deformation)	1902.66 KJ
Control Panel	PLC (Programmable Logic Controller)
Safety Support	Loop Detector
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Operating Temperature	-25° C - +50° C
Protection Class	IP 67

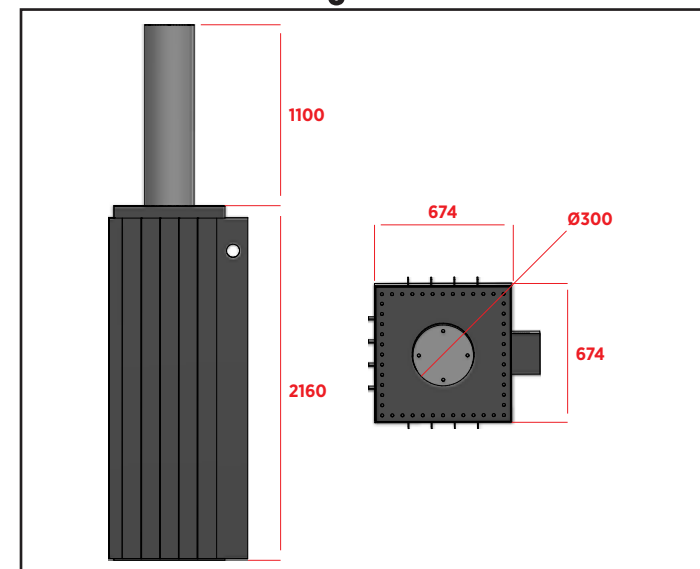
Optional Specifications

Manual Lifting	Hand Pump
Operating Temperature	-40° C - +75° C (heating / cooling)
Warning Equipment	Flasher -Traffic Light
EFO (Emergency Fast Operation)	2 sec.
System Security Support	Safety Photocell

Images



Technical Drawing



ANTI-TERROR HIGH SECURITY BOLLARD

7.500 kg - 80 km/h

Arma Kontrol High Security Anti-Ram Bollard designed specifically to prevent the passage of unauthorized vehicles with high security measures and it is strengthened against shocks.

Anti Terror Bollard crash test in Europe, a truck of 7.500 kg (7.5 tons) hit the road at a speed of 80 km / h. Therefore we have got international certification.

Arma Kontrol is the first TURKISH COMPANY to qualify for the P1 certificate passing the IWA14-1, ASTM, PAS68 crash tests, which is valid worldwide.

Standards: ASTM F2656-15 C740-K12
PAS68 2013- N3 7500-80
IWA 14-1:2013 N3C 7200- 80



HIGH SECURITY TELESCOPIC ROAD BLOCKER

ATTRB Series

Telescopic Road Blocker systems are specially produced and suitable for areas where there is a risk and infrastructure problem.

Telescopic road blockers are preferred in military installations, security units and lodgings, consulates and public buildings, all of which require high security precautions but with infrastructure problems.

As in road blocker systems, telescopic road blocker systems have also been strengthened to prevent unauthorized vehicle entry.



Technical Specifications

Road Blocker Height	1050mm
Road Blocker Width Options	2000mm to 4000mm
Wall Thickness	12-15mm
Material Type of Moving Part	ST44
Finish	Painted
Drive Movement	Hydraulic Driven
Motor Power	3 to 7.5 Kw
Power Supply	3 Phase 380 V (±10) AC, 50/60 HZ
Rising / Falling Time	6-8 sec.
Axle Load	30 Tons
Impact Resistant (without deformation)	1.897 KJ
Control Panel	PLC (Programmable Logic Controller)
Safety Support	Loop Detector
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Operating Temperature	-25° C - +50° C
Protection Class	IP 67

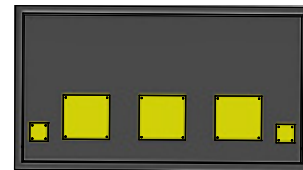
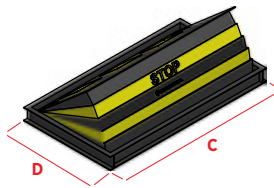
Optional Specifications

Manual Lifting	Hand Pump
Operating Temperature	-40° C to +75° C
Hydraulic System Heating – Cooling	Available
Warning Equipment	Flasher -Traffic Light
EFO (Emergency Fast Operation)	1.5 – 2 sec.
System Security Support	Safety Photocell

Images



Technical Drawing



A (mm)	B (mm)	C (mm)	D (mm)
1050	300	2000 to 4000	2260

HIGH SECURITY TELESCOPIC ROAD BLOCKER

7.500 kg - 80 km/h

Arma Kontrol High Security Telescopic Road Blocker; it is specially designed to prevent the passage of unauthorized vehicles, especially those with high security measures, which is a risky, infrastructure problem, and which is reinforced with a durability. Anti Terror Telescopic Road Blocker has been measured in a crash test in Europe that a 7,500 kg (7.5 tons) truck can stop the truck at 80 km / hour crash and continue to function smoothly afterwards. Therefore we have got international certification.

Arma Kontrol is the first TURKISH COMPANY to be awarded the P1 certificate by passing the IWA14-1, ASTM, PAS68 crash tests, which is valid worldwide.

Standards: ASTM F2656-15 C750-K12
PAS68 2013- N3 7500-80
IWA 14-1:2013 N3C 7200- 80



HIGH SECURITY ANTI-RAM BOLLARD

ATB6590

Arma Hydraulic Bollards resistant to impacts and weather conditions are manufactured from European norm 304 Quality Stainless pipes with advanced technology. The diameter and height of the bollards vary according to the area requirements or desired safety level. The electronic characteristics enable the lowering/raising to be controlled by any entry control system including all types of card readers, remote control, biometric readers recognizing fingerprints, automatic plate recognition system or even a simple control button. Whatsmore, the safety accessories like magnetic loop detectors, photocells, flashing lights or red/green traffic lights might be easily integrated into the system.

Patent No 2012/12603



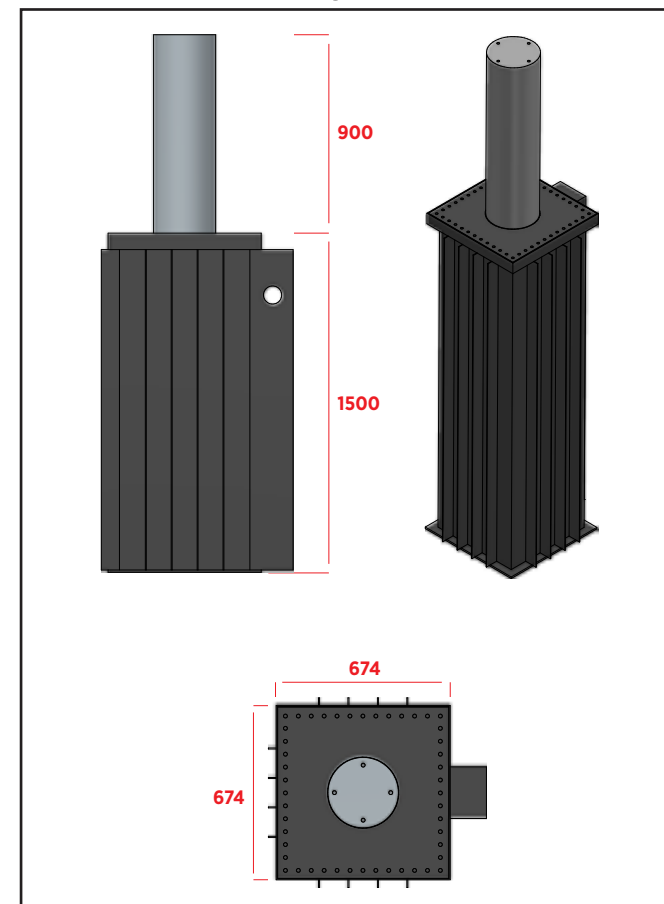
Technical Specifications

Bollard Height	900mm
Bollard Diameter	273mm
Wall Thickness	16mm
Material of the Moving Part and Case	ST44
Finish	Powder Coated
Drive Movement	Hydraulic Driven
Motor Power	1.5 to 7.5 Kw
Power Supply	3 Phase 380 V (±10) AC, 50/60 HZ
Rising / Falling Time	6-8 sec.
Axle Load	20 Tons
Impact Resistant (without deformation)	1224 KJ
Control Panel	PLC (Programmable Logic Controller)
Safety Support	Loop Detector
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Operating Temperature	-25° C - +50° C
Protection Class	IP 67

Optional Specifications

Manual Lifting	Hand Pump
Operating Temperature	-40° C - +75° C (heating / cooling)
Warning Equipment	Flasher -Traffic Light
EFO (Emergency Fast Operation)	2 sec.
System Security Support	Safety Photocell

Technical Drawing



Images



HIGH SECURITY ANTI-RAM BOLLARD

7.500 kg - 65 km/h

Arma Kontrol High Security Bollard designed specifically to prevent the passage of unauthorized vehicles with high security measures and it is strengthened against shocks.

Anti Terror Bollard crash test in Europe, a truck of 7.500 kg (7.5 tons) hit the road at a speed of 65 km / h. Therefore we have got international certification.

Arma Kontrol is the first TURKISH COMPANY to qualify for the P1 certificate passing the IWA14-1, ASTM, PAS68 K12 crash tests, which is valid worldwide.

Standards: ASTM F2656-15 C740-K8
PAS68 2013- N3 7500-65
IWA 14-1:2013 N3C 7200- 64





Road Blocker Systems
ARMAKONTROL

HYDRAULIC ROAD BLOCKER

RB Series

Road blocker is the most commonly-used system in the areas such as military facilities, government buildings, embassies, production facilities, oil refineries, hotels, airports and stadiums where the entries-exits must be made in a controlled and safe manner against any vehicle attacks. The system's case is designed as resistant to hits by vehicles, and all relevant components of the systems are strengthened against any attacks. Arma Kontrol's Blocker Systems work uninterruptedly even at the highest-density places thanks to the hydraulic operation system. This system is synchronized with the rising bollard and other safety systems, and keeps the defense at the maximum level in case of possible attacks, and thus ensures the secure entrance of the vehicles into relevant areas.

Patent No 2012/13979



Technical Specifications

Road Blocker Heights	500-600-700-800-900-1000 mm
Road Blocker Width	2000mm to 6000mm
Wall Thickness	10mm
Moving Part / Sheet Metal Type	ST44
Finish	Electrostatic Paint
Drive Movement	Hydraulic Driven
Motor Power	1.5 to 7.5 Kw
Power Supply	3 Phase 380 V (±10) AC, 50/60 HZ
Rising / Falling Time	6-8 sec.
Control Panel	PLC (Programmable Logic Controller)
Safety Support	Loop Detector
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Operating Temperature	-25° C - +50° C
Protection Class	IP 67

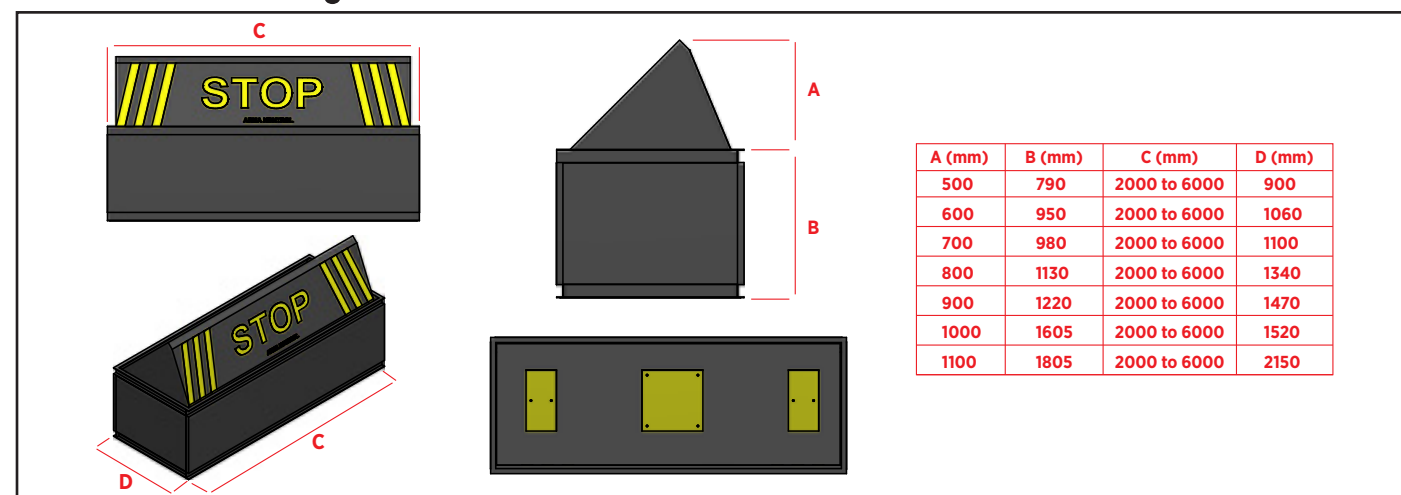
Optional Specifications

Manual Lifting	Hand Pump
Operating Temperature	-40° C to +75° C (heating / cooling)
Warning Equipment	Flasher -Traffic Light
EFO (Emergency Fast Operation)	1.5 - 2 sec.
System Security Support	Safety Photocell
UPS (Back-up Power System)	In case power failure
Power supply	Single Phase 220 V (±10) AC, 50/60 HZ
Road Blocker Steel Construction	Hot Dip Galvanized

Images



Technical Drawing



TELESCOPIC HYDRAULIC ROAD BLOCKER

TRB Series

Telescopic Road Blocker systems are specially produced. Telescopic road blocker systems are especially suitable for areas where there is a risk and infrastructure problem.

Telescopic road blockers are preferred in military installations, security units and lodgings, consulates and public buildings, all of which require high security precautions but with infrastructure problems.

As in road blocker systems, telescopic road blocker systems have also been strengthened to prevent unauthorized vehicle entry.



Technical Specifications

Road Blocker Heights	500-600-700-800-900-1000 mm
Width Options	2000mm to 4000mm
Wall Thickness	10mm
Material Type of Moving Part	ST44
Finish	Electrostatic Paint
Drive Movement	Hydraulic Driven
Motor Power	1.5 to 7.5 Kw
Power Supply	3 Phase 380 V (±10) AC, 50/60 HZ
Rising / Falling Time	4-6 sec.
Control Panel	PLC (Programmable Logic Controller)
Safety Support	Loop Detector
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Operating Temperature	-25° C - +50° C
Protection Class	IP 67

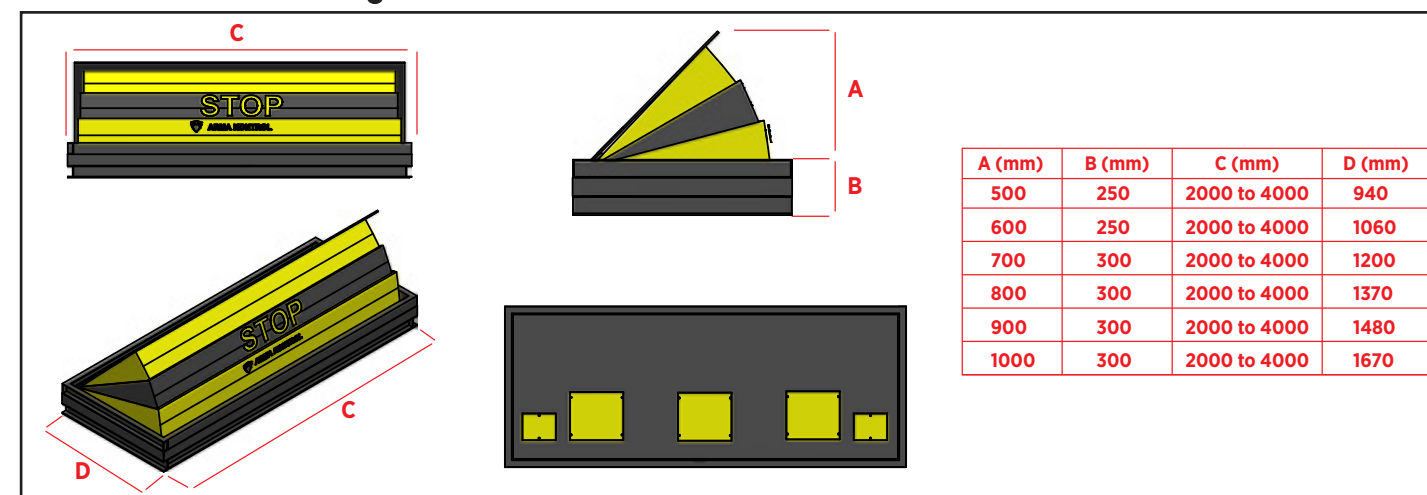
Optional Specifications

Manual Lifting	Hand Pump
Operating Temperature	-40° C - +75° C (heating / cooling)
Warning Equipment	Flasher -Traffic Light
EFO (Emergency Fast Operation)	1.5 - 2 sec.
System Security Support	Safety Photocell
UPS (Back-up Power System)	In case power failure
Power Supply	Single Phase 220 V (±10) AC, 50/60 HZ
Telescopic Road Blocker Steel Construction	Hot Dip Galvanized

Images



Technical Drawing



MINI ROAD BLOCKER

MRB Series

Road blocker is the most commonly-used system in the areas such as military facilities, government buildings, embassies, production facilities, oil refineries, hotels, airports and stadiums where the entries-exits must be made in a controlled and safe manner against any vehicle attacks. The system's case is designed as resistant to hits by vehicles, and all relevant components of the systems are strengthened against any attacks. Arma Kontrol's Blocker Systems work uninterruptedly even at the highest-density places thanks to the hydraulic operation system. This system is synchronized with the rising bollard and other safety systems, and keeps the defense at the maximum level in case of possible attacks, and thus ensures the secure entrance of the vehicles into relevant areas



Technical Specifications

Road Blocker Heights	500mm
Road Blocker Width	620mm
Wall Thickness	10mm
Moving Part / Sheet Metal Type	ST44
Finish	Electrostatic Paint
Drive Movement	Hydraulic Driven
Motor Power	1.5 KW
Power Supply	3 Phase 380 V (±10) AC, 50/60 HZ
Rising / Falling Time	4-6 sec.
Control Panel	PLC (Programmable Logic Controller)
Safety Support	Loop Detector
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Operating Temperature	-25° C - +50° C
Protection Class	IP 67

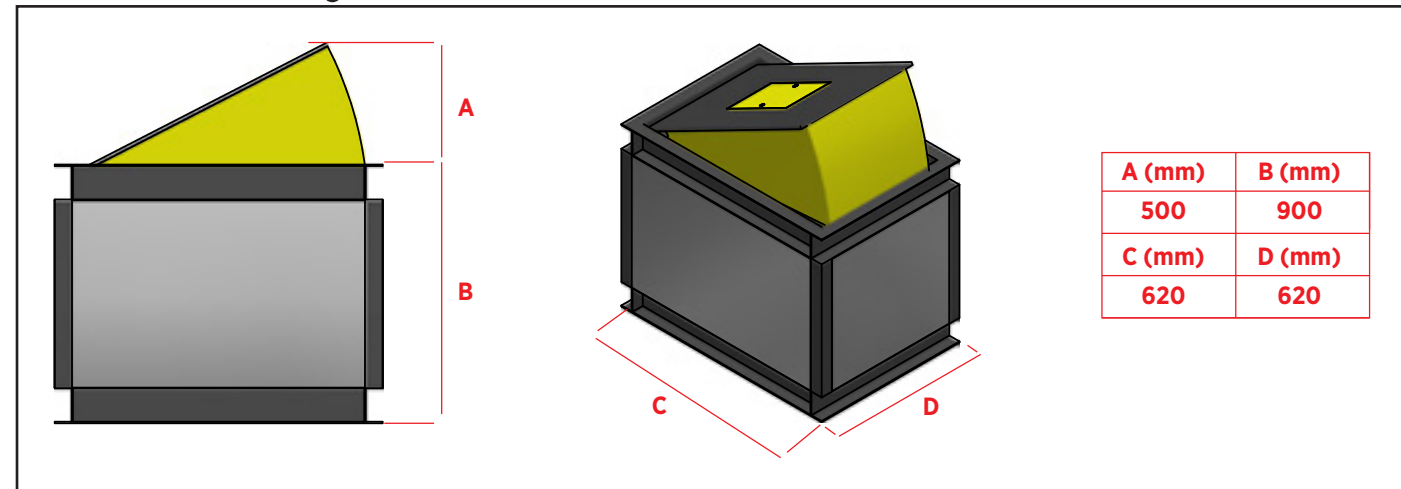
Optional Specifications

Manual Lifting	Hand Pump
Operating Temperature	-40°C +75°C (heating / cooling)
Warning Equipment	Traffic Light
Control Panel	PLC (Programmable Logic Controller)
System Security Support	Safety Photocell
UPS (Back-up Power System)	In case of electrical power failure
Power Supply	Single Phase 220 V (±10) AC, 50/60 HZ

Images



Technical Drawing



Anti-Ram Bollard Systems
ARMAKONTROL



HYDRAULIC ANTI-RAM BOLLARD

HB Series

Arma Hydraulic Bollards resistant to impacts and weather conditions are manufactured from European norm 304 Quality Stainless pipes with advanced technology. The diameter and height of the bollards vary according to the area requirements or desired safety level. The electronic characteristics enable the lowering/raising to be controlled by any entry control system including all types of card readers, remote control, biometric readers recognizing fingerprints, automatic plate recognition system or even a simple control button. Whatsmore, the safety accessories like magnetic loop detectors, photocells, flashing lights or red/green traffic lights might be easily integrated into the system.

Technical Specifications

Bollard Heights	500-600-700-800-900 mm
Bollard Diameters	219mm and 273mm
Bollard Thickness	10mm
Inner Sheet Material	ST44
Type of the Moving Part	
Outer Sheet Material	304 Stainless Steel (Thickness: 2mm)
Type of the Moving Part	
Finish	Stainless Steel
Drive Movement	Hydraulic Driven
Motor Power	1.1 to 7.5 Kw
Power Supply	3 Phase 380 V (±10) AC, 50/60 HZ
Rising / Falling Time	6-8 sec.
Control Panel	PLC (Programmable Logic Controller)
Safety Support	Loop Detector
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Operating Temperature	-25° C - +50° C
Protection Class	IP 67

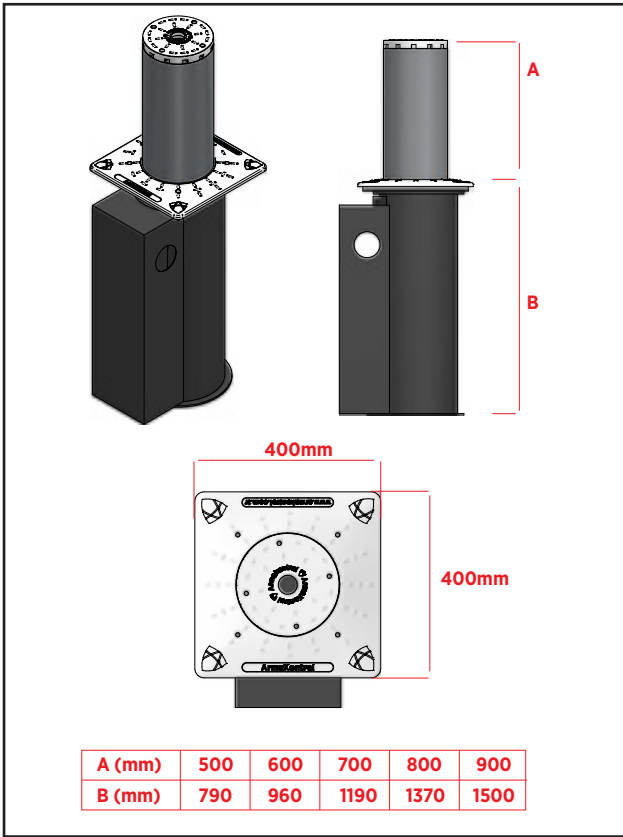
Optional Specifications

Manual Lifting	Hand Pump
Operating Temperature	-40° C - +75° C (heating / cooling)
Outer Sheet Material Type of the Moving Part	316 Stainless Steel (Thickness :2mm)
Warning Equipment	Flasher -Traffic Light
EFO (Emergency Fast Operation)	1.5-2 sec.
System Security Support	Safety Photocell
UPS (Back-up Power System)	In case power failure
Power Supply	Single Phase 220 V (±10) AC, 50/60 HZ

Patent No 2012/12603



Technical Drawing



Images



FIXED ANTI-RAM BOLLARD

FB Series

Resistant to weather conditions and impacts, Fixed Rising Bollards are especially used in public spaces and private property, and can be produced in different diameters and heights in accordance with the requirements of the area.

Production and assembly methods:

Designed to be cemented to the ground, fixed on the surface, or to have a lock-unlock feature. Arma fixed rising bollards do not only contribute to your safety but also adds value to your architectural design.



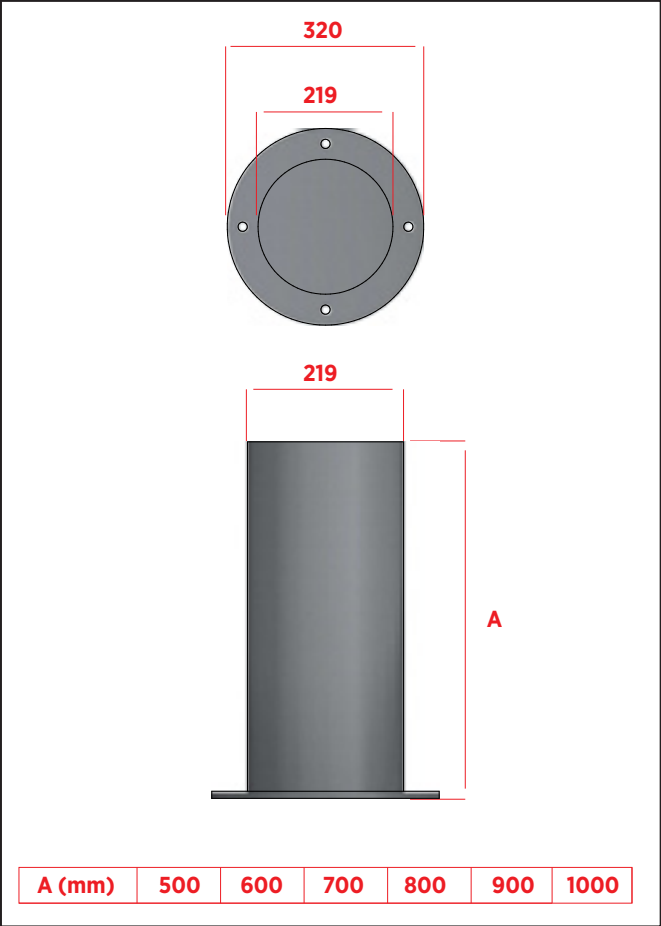
Technical Specifications

Bollard Diameters	114mm - 140mm - 219mm - 273mm
Bollard Heights	500mm to 1000mm
Bollard Wall Thickness	3mm - 4mm - 10mm -12mm – 14mm – 16mm
Bollard Material	ST44 or 304 Stainless Steel (316 stainless as an option)
Finish	Polished for Stainless Steel, Powder Coated for ST44
Connection Points	M8x20 Imbues Bolt (Stainless)
Installation Type	Flanged / Shallow

Images



Technical Drawing



MANUAL ANTI-RAM BOLLARD

MB Series

Arma Kontrol Manual Anti-Ram Bollard made with new production technology ARMA is a product designed for your easy you can use and private parks.

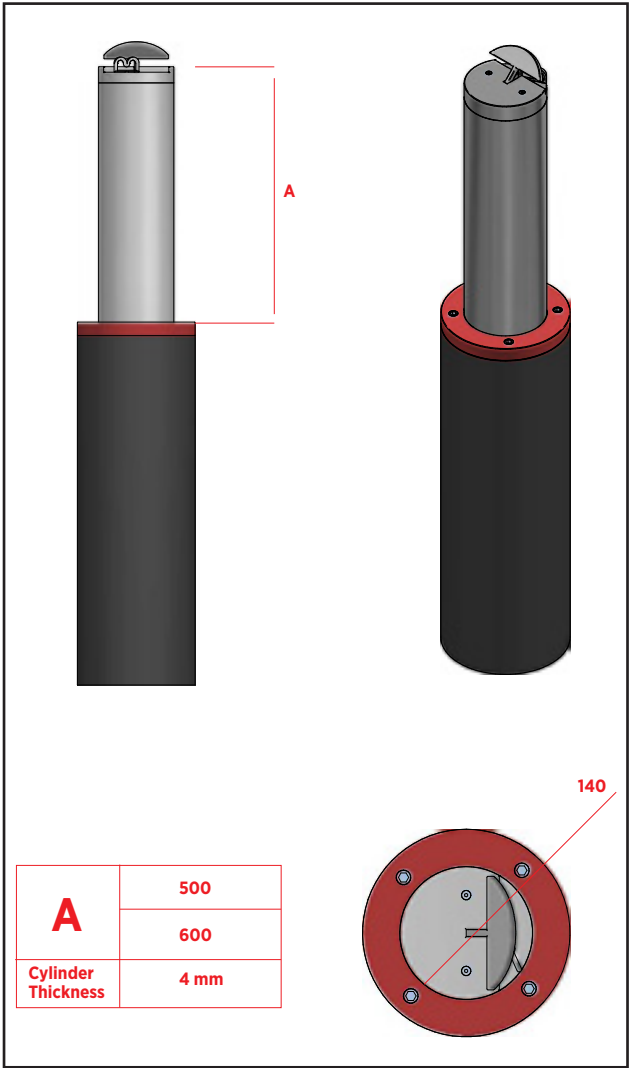
Technical Specifications

Bollard Diameters	139mm - 219mm
Bollard Heights	500mm to 1000mm
Bollard Wall Thickness	4mm - 8mm - 10mm
Bollard Material	ST44 or 304 Stainless (316 stainless as an option)
Finish	Powder Coating
Connection Points	M8x20 Imbues Bolt (Stainless)
Operating Types	Manual Gas Piston (for 500mm and 600mm heights)

Images



Technical Drawing



Arm Barrier Systems
ARMAKONTROL



ARM BARRIER

212 Series - 5 Meters

Arma 212 Arm Barriers are of international standard and quality thanks to their aesthetical appearance, stainless steel outer case not affected by the weather conditions and the powerful engine. The photocells on the barriers prevent the lowering of the barrier arm from the detection until the completion of the vehicle passage. Thus, the possible accidents are prevented.

The operating speed can be adjusted according to the need of the user. The barriers might be controlled with alternate accessories like remote control, manual button, and card reader upon request, and different arm lengths can be used based on the width of the entrance.



Technical Specifications

Arm Length	3000mm to 5000mm
Barrier Cabinet Physical Dimensions	360mm (L) x 250mm (W) x 1080mm (H)
Cabinet Material Details	Q235 Steel Sheet Thickness: 2.2 mm
Underside of Arm	815mm
Arm Height	115mm
Arm Material	Aluminium (Thickness: 1.5mm)
Drive Movement	Electrical Driven
Power Supply	Single Phase 220 V (±10) AC, 50/60 HZ
Operation Cycle Per Day (Up / Down)	8.000 Cycles
Opening / Closing Time	3.5 sec.
Torque	120 Nm
Service Class	4 – Instant
Motor Speed	1400 rpm
Motor Output Power	180W
Noise	≤62dB
Operating Temperature	-25°C~+70°C
Weight	70 Kg

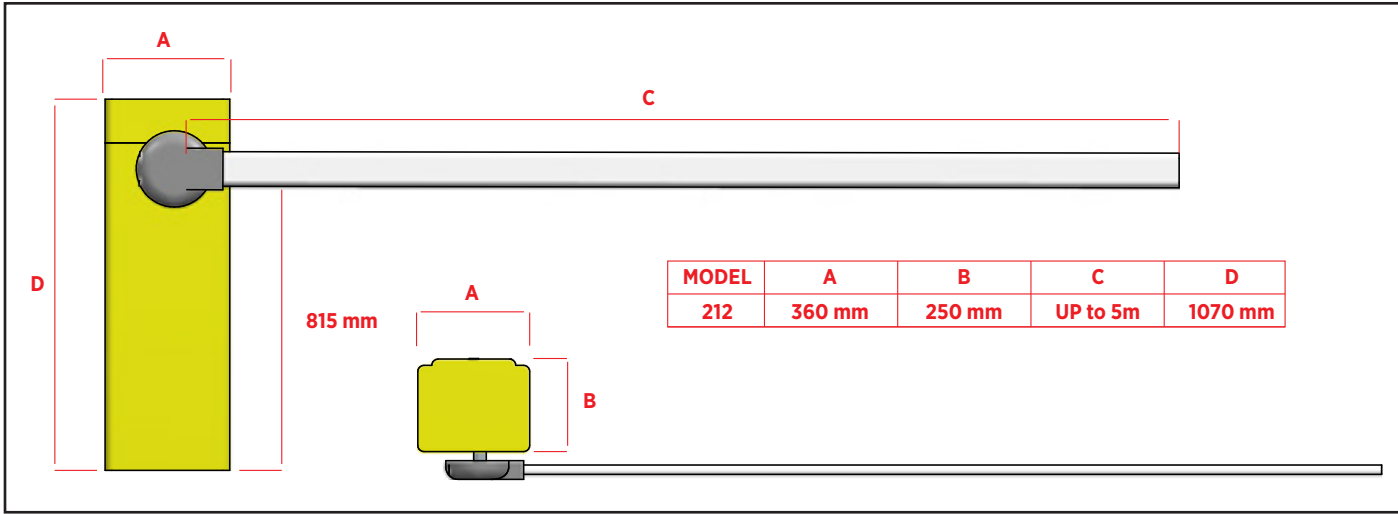
Optional Specifications

Warning Support	Traffic Light, Buzzer, Arm led
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Safety Support	Loop Detector

Images



Technical Drawing



ARM BARRIER

216 Series - 6 Meters

Arma 216 Arm Barriers are of international standard and quality thanks to their aesthetical appearance, stainless steel outer case not affected by the weather conditions and the powerful engine. The photocells on the barriers prevent the lowering of the barrier arm from the detection until the completion of the vehicle passage. Thus, the possible accidents are prevented.

The operating speed can be adjusted according to the need of the user. The barriers might be controlled with alternate accessories like remote control, manual button, and card reader upon request, and different arm lengths can be used based on the width of the entrance.



Technical Specifications

Arm Length	3000 to 6000mm
Barrier Cabinet Physical Dimensions	360mm (L) x 250mm (W) x 1080mm (H)
Cabinet Material Details	Q235 Steel, Sheet Thickness: 2.2 mm
Underside of Arm	815mm
Arm Height	115mm
Arm Material	Aluminium (Thickness: 1.5 mm)
Drive Movement	Electrical Driven
Power Supply	Single Phase 220 V (±10) AC, 50/60 HZ
Operation Cycle Per Day	8.000 Cycles
Opening / Closing Time	5.5 sec.
Torque	120 Nm
Service Class	4 – Instant
Motor Speed	1400 rpm
Motor Output Power	180W
Noise	≤62dB
Operating Temperature	-25°C~+70°C
Weight	75 Kg

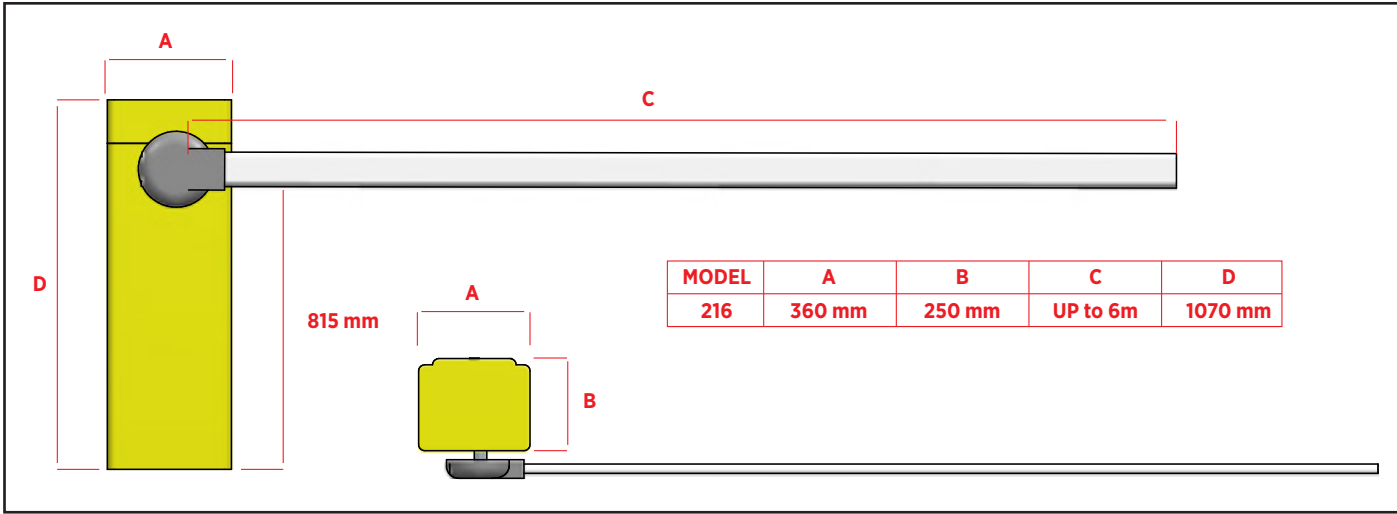
Optional Specifications

Warning Support	Traffic Light, Buzzer, Arm led
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Safety Support	Loop Detector

Images



Technical Drawing



PRO FAST BARRIER

034 Series - 3 Meters - 1.2 sec.

Designed for gates/exits with heavy car traffic. Equipped with a special bar system to prevent the barrier engine from getting damaged in case of car hits. Suitable for all weather conditions.

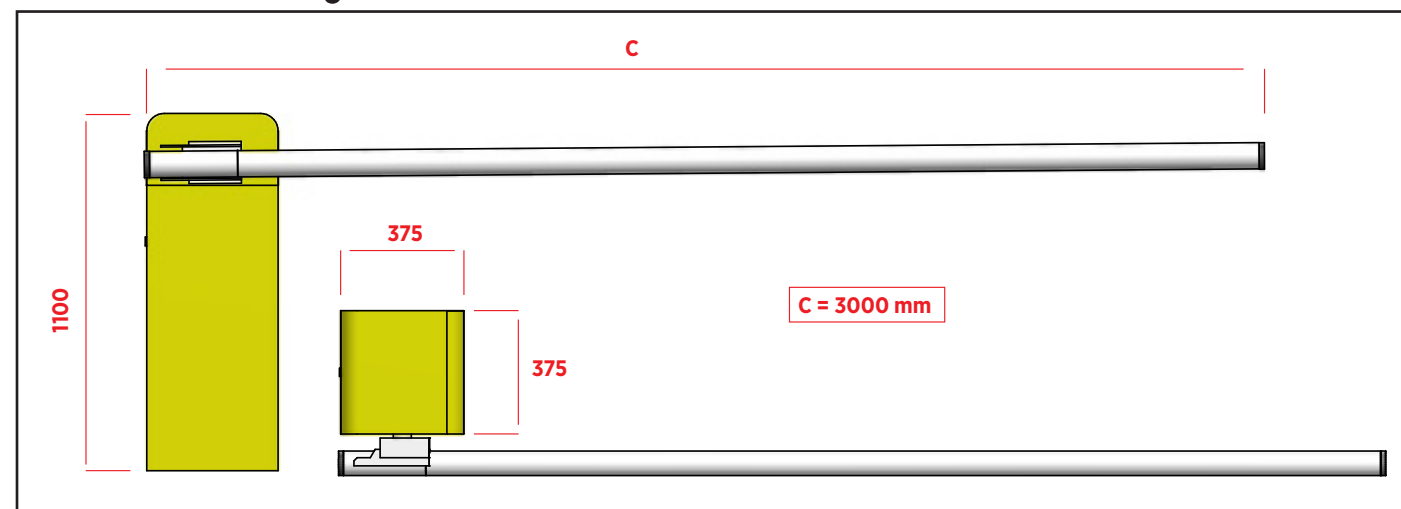
Technical Specifications

Arm Length	3000mm (Crash-proof)
Barrier Cabinet Physical Dimensions	370mm (L) x 370mm (W) x 1100mm (H)
Arm Height	930mm
Arm Material	Aluminum
Arm Diameter	Ø 76mm
Drive Movement	Electrical Driven
Power Supply	Single Phase 220 V (±10) AC, 50/60 HZ
Operation Cycle Per Day	18.000 Cycles
Opening / Closing Time	1.2 sec.
Torque	120 Nm
Motor Speed	960 rpm
Service Class	5 – Extreme Instant
Motor Output Power	380W
Noise	≤62dB
Operating Temperature	-20°C~+50°C
Weight	120 Kg

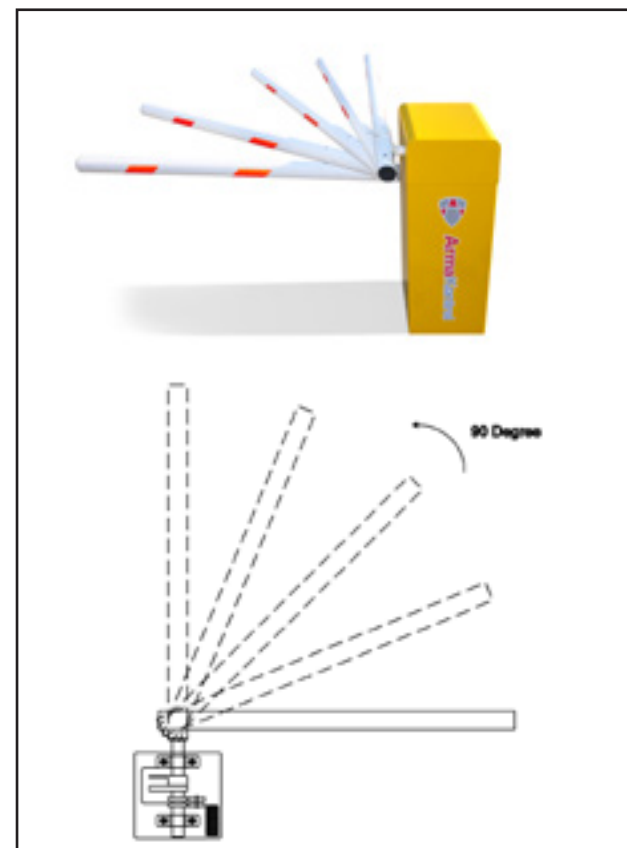
Optional Specifications

Warning Support	Traffic Light, Buzzer, Arm led
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Safety Support	Loop Detector

Technical Drawing



Images



BROKEN ARM BARRIER

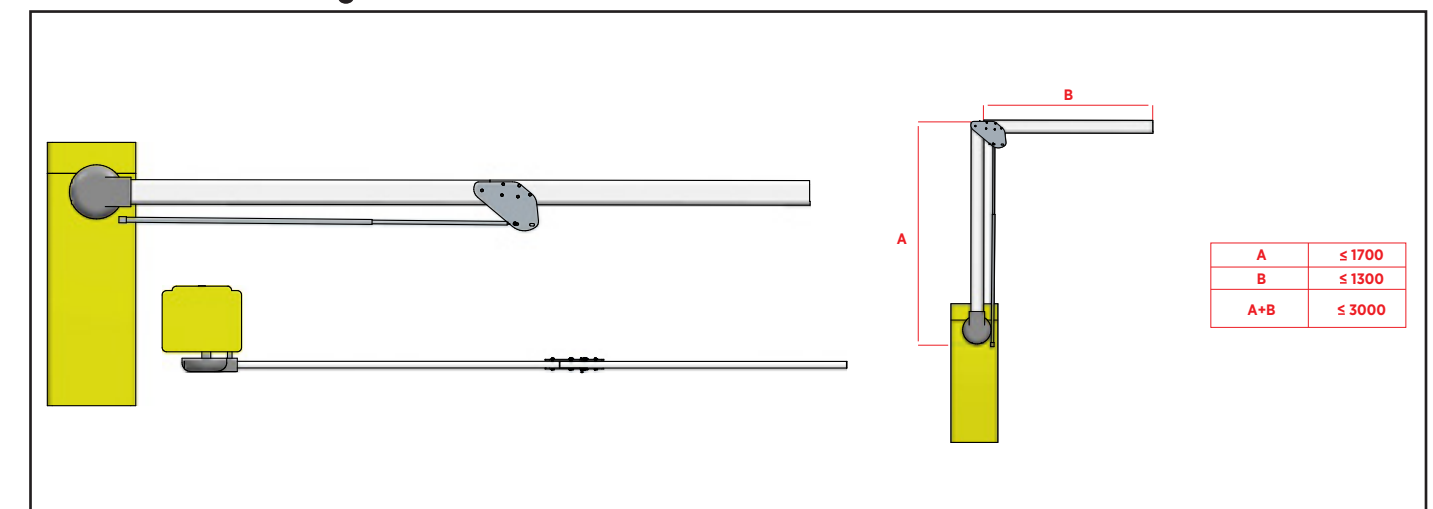
ARMA-BRK

Arma Arm Barriers are of international standard and quality thanks to their aesthetical appearance, stainless steel outer case not affected by the weather conditions and the powerful engine. The photocells on the barriers prevent the lowering of the barrier arm from the detection until the completion of the vehicle passage. Thus, the possible accidents are prevented. The operating speed can be adjusted according to the need of the user. The barriers might be controlled with alternate accessories like remote control, manual button, and card reader upon request, and different arm lengths can be used based on the width of the entrance.

Technical Specifications

Arm Length	Max 3000mm
Barrier Cabinet Physical Dimensions	360mm (L) x 250mm (W) x 1080mm (H)
Cabinet Material Details	Q235 Steel Sheet Thickness: 2.2 mm
Arm Height	815mm underside of arm
Arm Thickness	115mm
Arm Material	Aluminium (Thickness: 1.5mm)
Drive Movement	Electrical Driven
Power Supply	Single Phase 220 V (±10) AC, 50/60 HZ
Operation Cycle Per Day (Up / Down)	8.000 Cycles
Opening / Closing Time	3.5 sec.
Torque	120 Nm
Service Class	4 – Instant
Motor Speed	1400 rpm
Motor Output Power	180W
Noise	≤62dB
Operating Temperature	-25°C~+70°C
Weight	70 Kg

Technical Drawing



Optional Specifications

Warning Support	Traffic Light, Buzzer, Arm led
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Safety Support	Loop Detector

Images





Road Trap Systems
ARMAKONTROL

HYDRAULIC ROAD TRAP

HRT Series

Arms Road Trap creates a fast and safe transit environment by ensuring one-way traffic in vehicle entry-exit points of car parks, shopping centers, building complexes and similar areas. The purpose of this system is to prevent the passage of vehicles in opposite direction. This feature can be disabled when required. The vehicles acting contrary to the existing passage order are blocked by means of independent blades of Arma Automatic Road Trap and thus, any assassination attempt can be prevented thanks to the damage give to the tires. The height of the blades is 14 cm but is possible to make production in special sizes depending on customer's demand. The level of the noise arising from impact to these blades has been reduced with special rubber. Epoxy paint or electrostatic powder coat resistant to the external factor is used as the paint of the product due to our quality understanding. Furthermore, manual arm apparatus has been developed in order to be able to get 100% efficiency from the product in case of any power outage in Automatic Road Trap System.



Technical Specifications

Trap Length	1000mm to 5000mm
Trap Blade Height	140mm
Trap Blade Thickness	10mm
Trap Blade Model	Single
Moving Part Material	ST44 Steel
Drive Movement	Hydraulic Driven
Rising / Falling Time	3-5 sec.
Control Panel	PIC Board
Power Supply	3 Phase 380 V (±10) AC, 50/60 HZ
Safety Support	Loop Detector
Compatibility with Access Control Systems	License Plate Recognition, Card Reader, Finger Print etc.
Operating Temperature	-25°C +50°C

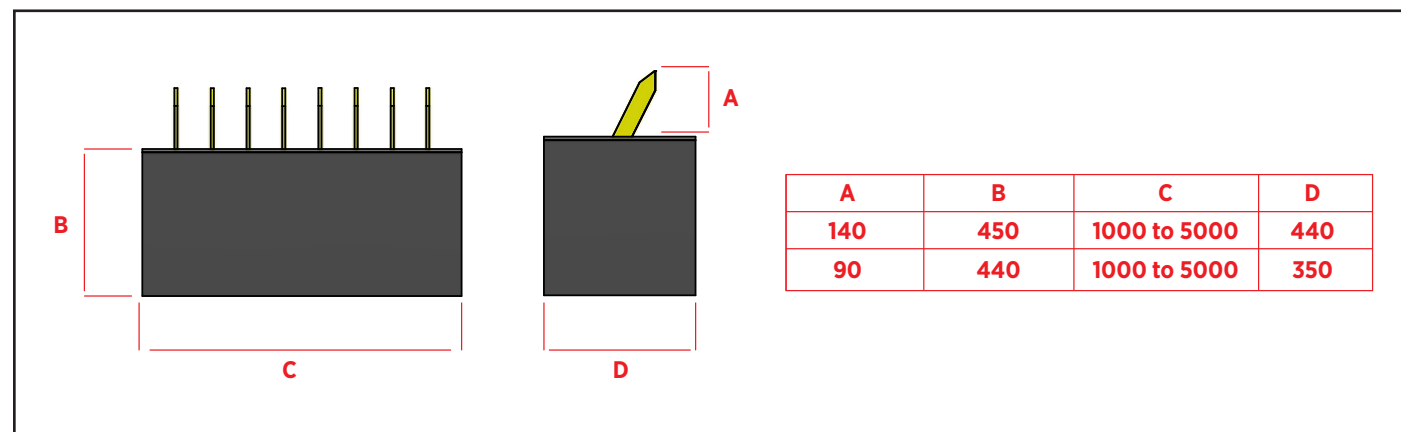
Optional Specifications

Manual Lifting	Hand Pump
Operating Temperature	-40°C +75°C (heating / cooling)
Warning Equipment	Traffic Light
Control Panel	PLC (Programmable Logic Controller)
System Security Support	Safety Photocell
UPS (Back-up Power System)	In case of electrical power failure
Power Supply	Single Phase 220 V (±10) AC, 50/60 HZ

Images



Technical Drawing



DOUBLE BLADE ROAD TRAP

RTD Series

Arms Road Trap creates a fast and safe transit environment by ensuring one-way traffic in vehicle entry-exit points of car parks, shopping centers, building complexes and similar areas. The purpose of this system is to prevent the passage of vehicles in opposite direction. This feature can be disabled when required. The vehicles acting contrary to the existing passage order are blocked by means of independent blades of Arma Automatic Road Trap and thus, any assassination attempt can be prevented thanks to the damage give to the tires. The height of the blades is 7 cm but is possible to make production in special sizes depending on customer's demand. The level of the noise arising from impact to these blades has been reduced with special rubber. Epoxy paint or electrostatic powder coat resistant to the external factor is used as the paint of the product due to our quality understanding. Furthermore, manual arm apparatus has been developed in order to be able to get 100% efficiency from the product in case of any power outage in Automatic Road Trap System.

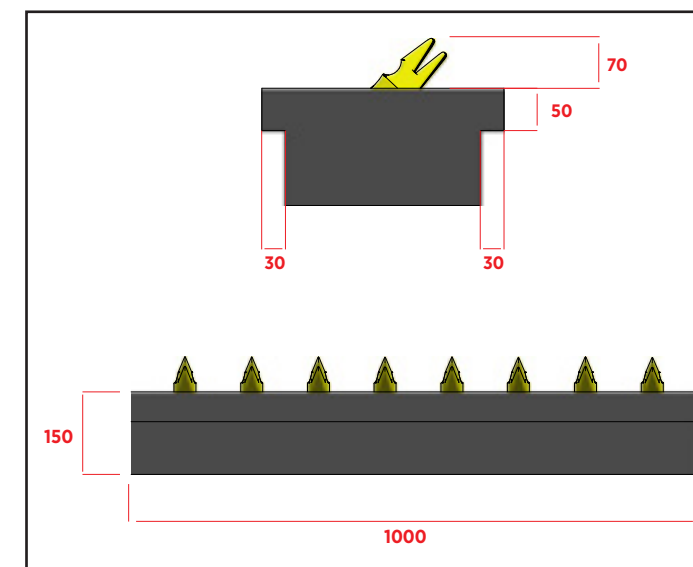
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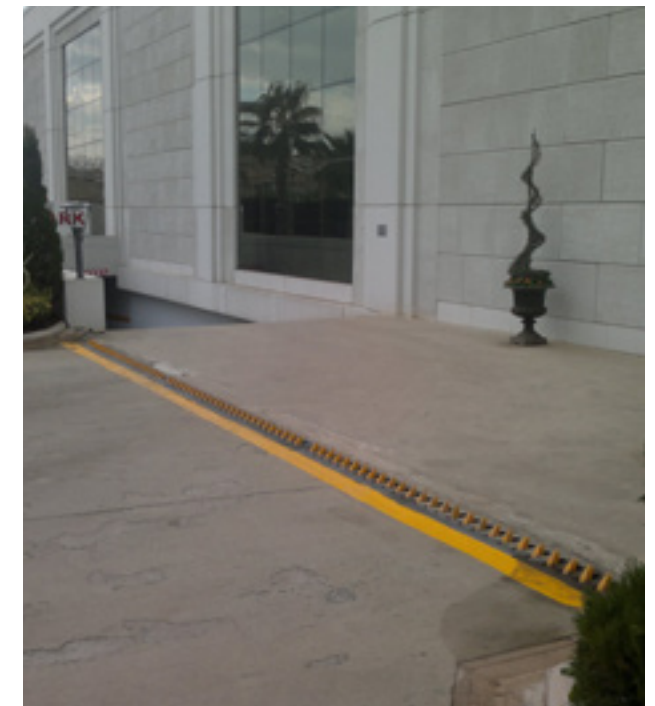
Technical Specifications

Trap Length	1000mm to 5000mm
Trap Blade Height	70mm
Trap Blade Model	Cast Double (Sfero)
Moving Part Material	Cast Steel
Drive Movement	Mechanical Driven
Blade Movement	Independent
Trap Case Dimensions	290mm(W) + 1000mm (L)+150 mm(H)
Reducing Noise	Using rubber with screw (thickness: 20mm)
Finish	Powder Coated
Weight for each 1000 mm	70 Kg
Independent Maximum Car Speed	25 km/h

Technical Drawing



Images



SINGLE BLADE ROAD TRAP

RTS Series

Arma Road Trap creates a fast and safe transit environment by ensuring one-way traffic in vehicle entry-exit points of car parks, shopping centers, building complexes and similar areas. The purpose of this system is to prevent the passage of vehicles in opposite direction. This feature can be disabled when required. The vehicles acting contrary to the existing passage order are blocked by means of independent blades of Arma Automatic Road Trap and thus, any assassination attempt can be prevented thanks to the damage give to the tires. The height of the blades is 7 cm but is possible to make production in special sizes depending on customer's demand. The level of the noise arising from impact to these blades has been reduced with special rubber. Epoxy paint or electrostatic powder coat resistant to the external factor is used as the paint of the product due to our quality understanding. Furthermore, manual arm apparatus has been developed in order to be able to get 100% efficiency from the product in case of any power outage in Automatic Road Trap System.



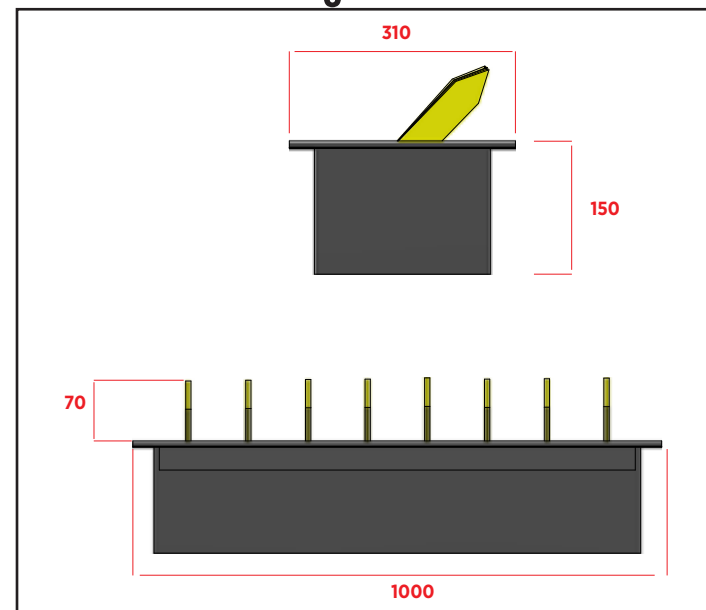
Patent No 2015/14520



Technical Specifications

Trap Length	1000mm to 5000mm
Trap Blade Height	70mm - 90mm
Trap Blade Thickness	10mm
Trap Blade Model	Single
Moving Part Material	Steel
Drive Movement	Mechanical Driven
Blade Movement	Independent
Trap Case Dimensions	360mm(W) + 1000mm (L)+200mm (H)
Reducing Noise	Using rubber with screw (thickness: 20mm)
Finish	Powder Coating
Weight for each 1000 mm	60 Kg

Technical Drawing



Images



SURFACE MOUNTED ROAD TRAP

SRT Series

It is specially designed to prevent the reverse entry of vehicles in one-way roads. It is a product made of steel that can be easily mounted with speed cut-off and traction. Today, in certain regions such as garage entrance, public buildings, private buildings, parking lot and site entrance, the purpose of preventing unauthorized vehicle entry is used with the trap system called the vehicle door. It has shapes and teeth which are suitable for the purpose of use. By means of these teeth it is not possible to cross the vehicle except in the direction that the closing in the designated area allows.



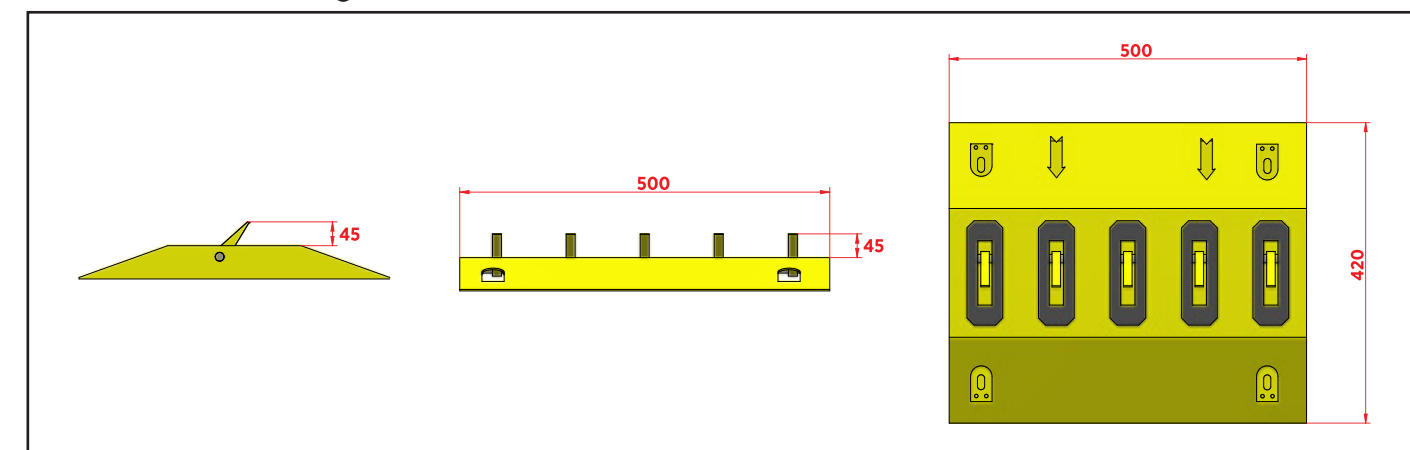
Technical Specifications

Trap Length	500 mm
Trap Width	420 mm
Trap Height	500 mm
Upper Plate	4-5mm checkered plate
Blade Length	40 mm
Blade Type	Synchronized with each other
Blade Thickness	10 mm
Paint	Electrostatic Paint

Images



Technical Drawing



COMPONENTS



Electrical Motor

The electric motor drives the hydraulic pump



Hydraulic Pump

The pump is mechanically connected to the electric motor and provides the required pumping pressure



Directional Control Valve

These solenoids operated directional control valves are for directing and stopping flow at any point in a hydraulic system



Hydraulic Hoses

High pressure hydraulic hose used to connect the HPU the Road Blockers or Bollards



PLC (Programmable Logic Control)

Intelligent relays are designed to simplify electrical wiring.



Proximity Switch

Inductive proximity sensors are used for non-contact detection of metallic objects to limit the opening and closing operation.



Hand Pump

In case of electrical failure, a manual hand pump is provided to enable the system to be pressurized



Pressure Gauge

The pressure gage shows the actual HPU system pressure



Oil Indicator Level

The oil site gauge gives an easy indication of the fluid level



Remote control

Wireless operation command



Safety Loop Detector

Safety device using for parking and vehicle access control application



Emergency Button



Hydraulic Tank

The tank reservoir holds the hydraulic fluid that is not under pressure



Flow Control Valve

The flow control valve(s) are used to control the amount of flow of hydraulic fluid both to and from the blocker under control



Accumulator

The accumulator acts as a pressure reservoir to store pressurized fluid



Cooler



Heater





World-class safety certified

