

Unique Automations

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Email: fareed@uniqueautomations.in

Web: www.uniqueautomations.in

1-8-510, Opp. Begumpet Airport,
Vikar Nagar, Prakash Nagar, Hyderabad - 500 0

We Specialise in: • Automatic Rolling Shutters • Automatic Boom Barriers • Gate Automations • Door Automations
• Concealed Traffic Bollards • Parking Management Systems • Accessories

To,
Modi Properties,
M.G. Road,
Sec-bad-500003.

Date:04-05-2019
GSTIN No:36ABH1PU9994K1ZH

Kind Attn: "Mr.Sitaramjaneyulu"

Sub: Price list for FAC Automatic Hydraulic Boom Barrier			
S.No.	Particulars	Qty	Amount
1.	Hydraulic boom barrier 630 4-7mtr (opening/closing time:2-3 seconds)	1	148465*2
2.	Electronic MPS card	1	
3.	Balancing springs	1	
4.	Securing pocket	1	
5.	Foundation plate	1	
6.	Push Button	2	
7.	Photocells	4	
8.	Beam stand	2	
9.	Transportation & Installation charges included		
	Total		296930

RFID READER

1.	Long Distance RFID Reader (Range 15-20 meter)	88000*2
2.	UHF Reader	
3.	RFID car stickers Rs.250/- each	
4.	Stand for Mounting RFID Reader	
	Total	176000
	Grand Total	472930

(Four lakh seventy two nine hundred thirty rupees only)

TERMS & CONDITIONS :

1. Electrical points & wiring must be done by you
2. Order once accepted cannot be cancelled or altered
3. work will be completed within 1 week after receiving advance and PO
4. One year warranty on Boom Barrier against manufacturing defect
5. 70% of payment in advance and balance 30% after installing Boom Barrier
6. Service will be given within 24 hours after break down 24/7
7. GST Extra.

ABOVE ORDER IS ACCEPTED

Yours faithfully
UNIQUE AUTOMATION

SIGNATURE

(FAREED)
Proprietor

Subject: Unique Automation Reputated Services
From: syed fareed <uniquefareed7@gmail.com>
Date: 06-05-2019, 11:30
To: sitaram@modiproperties.com

Greetings,

This is fareed from Unique Automations from Hyderabad, we are here since 2000 have completed quality assured sites at Pride Constructions, Alexendria, MN Constructions, Chemo, Mohammed khan Jewellers, Forum Atmosphere, Tanishq, World of Titan, Legend Constructions, Ayyanna Constructions, Golkunda Hotel Residence, Span Designers Banglore, GVK and many residendial and independent Houses. We have 24/7 service for our products for our Valuable customers.

Thanks & Regards

Unique Automation
Fareed 9849431406
E-mail: uniquefareed7@gmail.com
Website: www.uniqueautomations.in

— Attachments: —

Unique Automation Broucher 1.pdf	860 KB
Unique Automation Broucher 2.pdf	796 KB

Unique Automations

Parklite-The Parking Management System

Parklite is the system based on latest stat of the Art technology
- Bar coded tickets for Paid users, cards for regular / VIP users.

Wonderful Features :

The System Helps :

1. Create a smooth flow of parking traffic and increase footfall.
2. Minimizing entry & exit traffic blockages.
3. Provide occupancy availability status with online reports.
4. Help collect payment with online reports.
5. Simplified and customized programmable ticket printing.



How does it work ?

Parking Availability Status : User can get the status whether the parking full or empty, by using Occupancy indicating light.

Entry : user enters the Parking lot, if the light is green, A green loop helps activate the ticket Dispenser to issue Tickets.

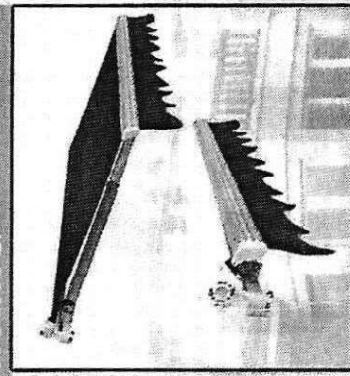
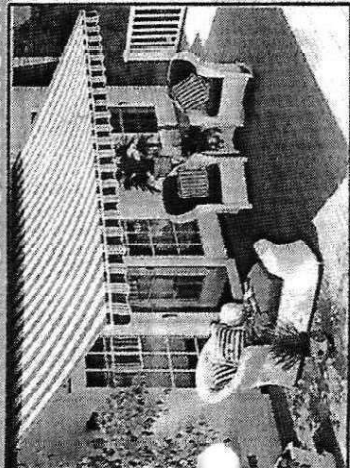
Bar Coded ticket is given out by pressing button on Ticket Dispenser. Bar code carries details of in time etc.

Payment : The cashier verified ticket with Bar code scanner, fee to be collected is displayed on Toll Fee Display. Report is automatically updated on computer.

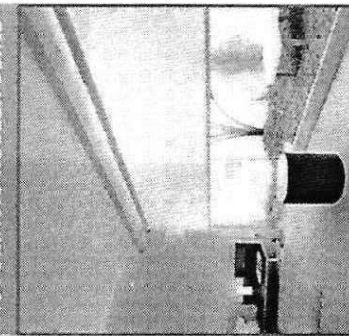
Receipt is issued for customers.

Exit : Receipt printing simultaneously issues another command to open Barrier for vehicle to exist. VIP / Regular user : Regular user can show the card to the Card reader placed at Entry. Barrier is activated to open for entry upon verification. While leaving user again verifies his card at the exist reader, and exists as the Barrier opens.

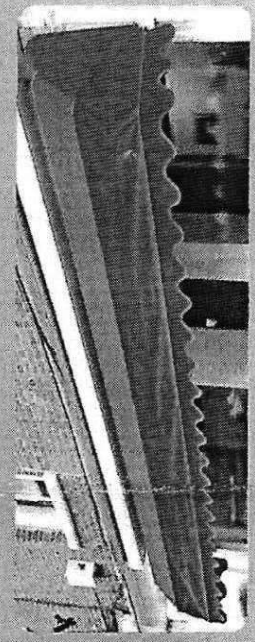
AUTOMATIC AWAIING



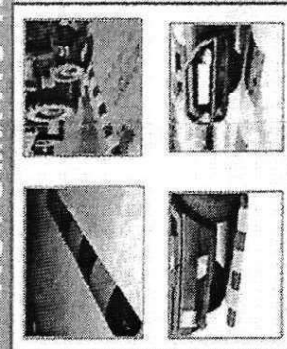
AUTOMATIC ROLLER BLIND



AUTOMATIC CANOPIES



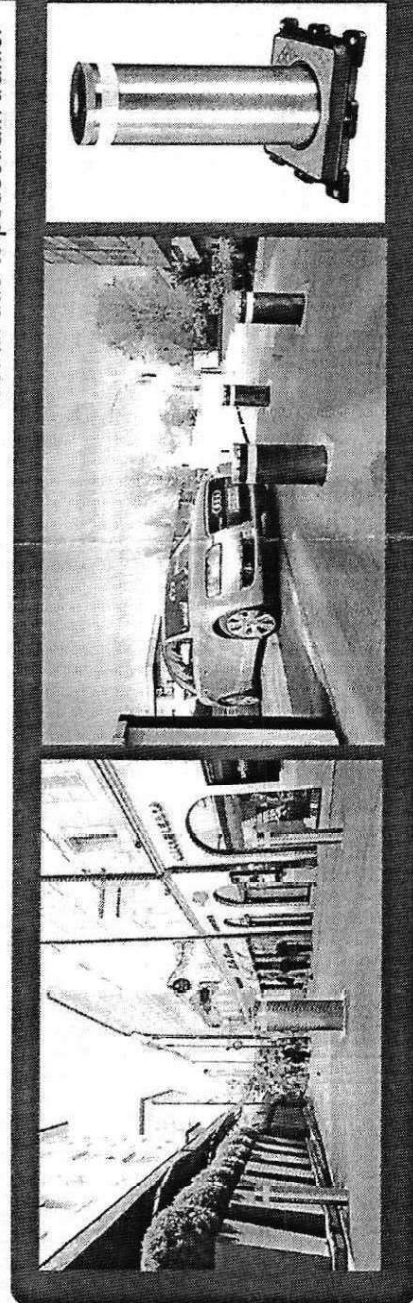
AUTOMATIC ROAD BREAKER



Automatic Road Breaker

Automatic Concealed Traffic Bollard

Unique Automations is a metal cylinder & position mechanism arrangement. It can be lowered and raised by command for operation. it is highly resistant against impact & crash. Traffic Bollard are very suitable for High Security areas, where restricted entry is to be allowed. Also it can be used by large housing condominiums, commercial places and industry to restrict the flow of heavy footfall due to pedestrian traffic.



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Ph.: 040-65890120, Cell: 9849431406.



Unique Automations

ENTRANCE AUTOMATION SYSTEMS

FOR FREE DEMO CONTACT
Ph.: 040-65890120, Cell: 9849431406

Automatic Swing Gate Operators

- Underground as well External Operators.
- Latest Hydraulic Technology for highly maintenance free Duty Cycles.
- Various electromechanical operators available.
- Wide range with duty cycles as high as 70 cycles/Hr.
- Models available for leaf width from 1.8 Mtrs. to 7 Mtr. (Each)

Automatic Sliding Gate Operators

- Wide range of Models for Gates weighing from 300 Kg. - 3500 Kg.
- Highly Compact Dimensions
- Models available with use cycles as high as 70%

Automatic traffic Control boom barriers

- Latest Hydraulic Technology based for highly maintenance free, noise free movements.
- Available for boom lengths from 2 Mts up to 8 Mts
- Models available with use cycles as high as 70%
- Built in Anti - Crushing Safety.

Automatic Doors

Sliding Doors :

- Continuous Duty Sliding Doors for Single Leaf, Double Leaf & Bi-folding doors.
- Models for door weight ranging from 80Kg up to 180 Kg each leaf for Double Door & 120 Kg up to 250 Kg each leaf for Single Door.
- 2 Millions Maintenance Free Duty Cycles.,

Swing Doors :

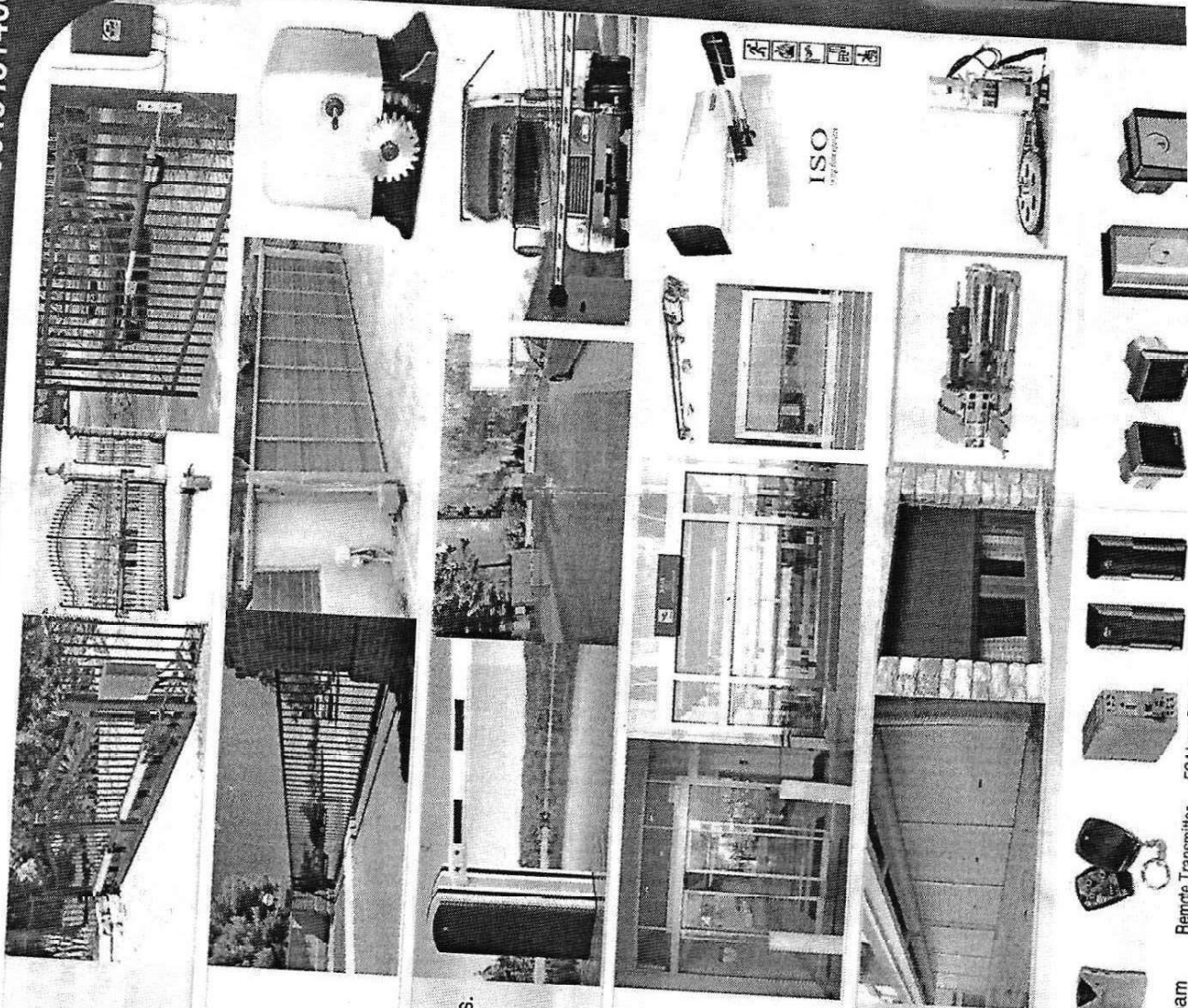
- Automated System for Single / Double leaf Swing doors. Extremely silent.

Automatic Rolling Shutters

- Models available for Shutters Weighing from 105Kg to 2000 Kg.
- Simple, Rapid Installation - for Existing & New rolling shutters.
- Non Reversing facility.

Accessories :

WE UNDERTAKE AMC'S & REPAIR WORKS
Web : uniqueautomations.in



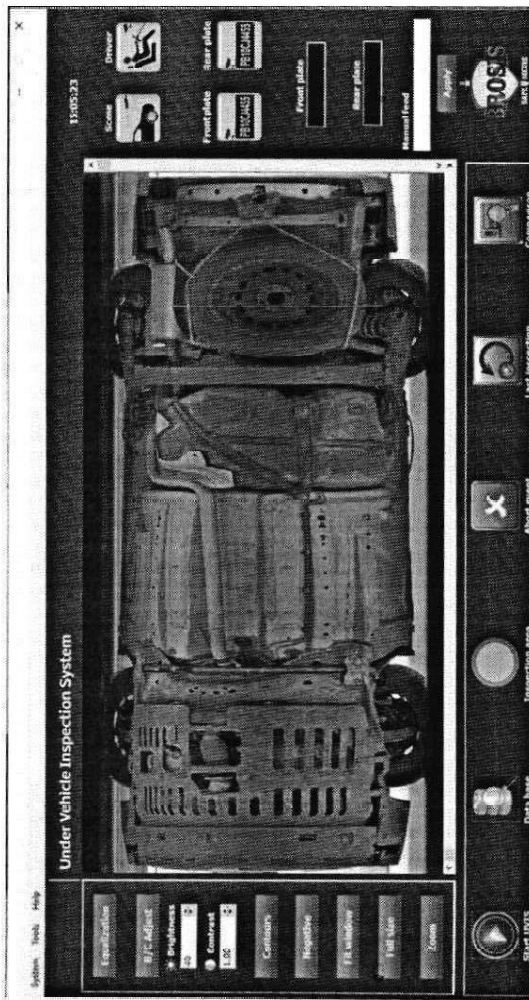
Safe Beam

Remote Transmitter

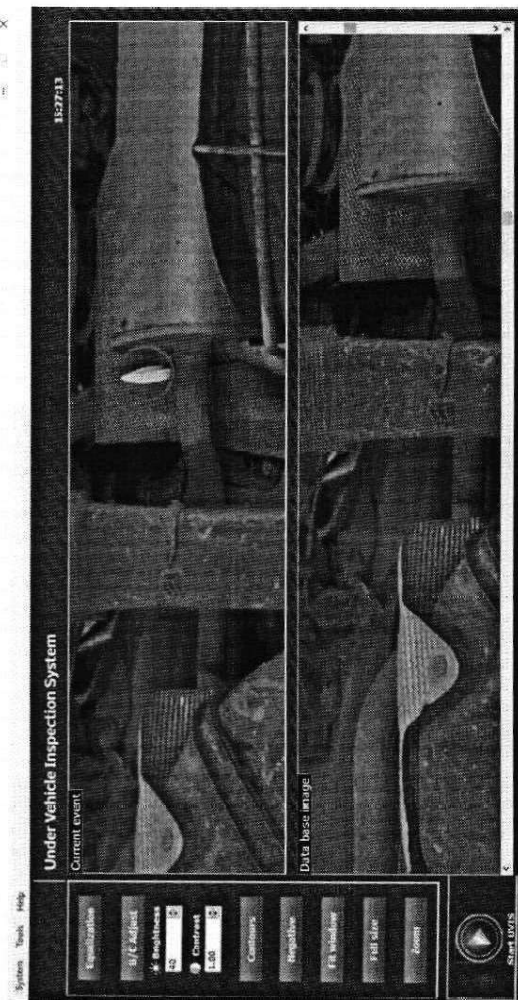
ISO



4. Adjust the picture to screen size: The button "ADJUST WINDOW" adjusts the vehicle image to the size of the main display window. In this way, the user can inspect the entire image of the car at once.



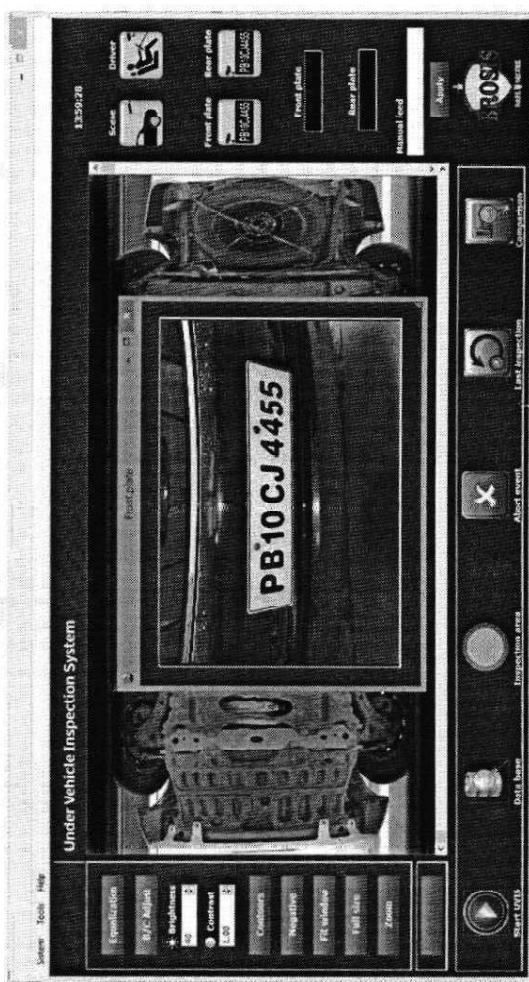
5. AUTO COMPARISON OF ZOOMED IMAGE: It compares current generated image with database image.



6. ZOOM: The zoom function is designed to carry out a further inspection of the smallest parts of the vehicle structure. This tool allows the user to increase up to 16 TIMES THE IMAGE VIEW in two different operating modes: decoupled window and detail view window.



7. Vehicle's license plate image (Front / Rear plate): This image is acquired by the license plate recognition (LPR) camera that integrates the BROSIS UVSS system. The image provided is, among other things, very useful to visually confirm that the plate's number corresponds to the number (text string) the LPR camera



UVSS (Under Vehicle Surveillance System)

BI-3rd Eye

Hardware Specifications

Embedded Frame

Unit mounts flush with the road surface and extends 35.5cm below grade. The embedded unit includes drainage and conduit exit point. Our UVSS is tested and certified for IP68 and IP44 for water proof and dust proof respectively from NABL (Govt. of India).

Scanner Specifications

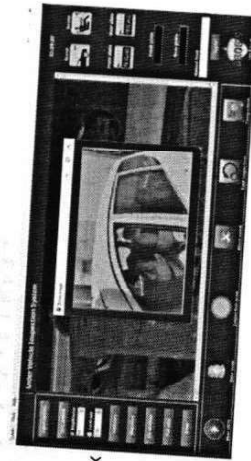
- Length: 910mm x Width 610mm x depth 21mm
- Power Supply: 230 VAC
- Frequency: 50/60 Hz
- Consumption: 500 W
- Camera resolution: 1600 x 1200
- Image resolution: 4 MP
- Sensor: Progressive Scan CCD/CMOS
- Video Format: GIGE
- Environmental: Sealed unit to protect against heat, dust, water and vibration.
- Temperature range: -20°C to + 60°C
- Operating Humidity: 100%
- Illumination system: white super bright LED
- Number of LEDs: 18
- Expected life time: 7 years
- Operating system: Windows 7 or better
- RAM: 16 GB
- Hard disk: 1TB
- CPU: Intel core i7 3.6 Ghz
- Impact Proof: Yes
- Shock Proof: Yes
- Zoom capability: 16X
- Image width: 6000 pixels

Anpr Camera Specifications

- Camera resolution - 3MP
- Image Resolution- 2048(H) x 1536(V)
- Scanning System- Progressive CCD/CMOS
- Range - 40m
- Lens Type - 11x, automatic, motorized lens
- Focus Distance Range - 10 - 40m
- Day/night mode: Light sensor configurable auto- switching day/night mode, automatic brightness control
- Communication protocols: ARP, ICMP, TCP/IP, DHCP, NTP, FTP, HTTP, SMTP, RTP
- Wavelength: 850nm (Infrared)
- Illumination modes: Synchronized flash or continuous
- Power requirement: 24 Vdc
- Connectivity Binder M12 circular: Ethernet (8 pin), Power (4 pin), User (8 pin), User (12 pin)
- IP & I/K rating: IP67 & IK10

Driver Image Camera Specifications

- Imaging Device: 1/2.9" 2.19MCMOS
- Effective Pixels: 1,984(H) x 1,105(V)
- Scanning System: Progressive
- Min. Illumination: Color: 0.095Lux (30IRE), B/W: 0Lux
- IR Viewable Length: 50m (98.43ft)
- Day & Night: True Day & Night
- White Balance: ATW/AWC/Manual/Indoor/Outdoor
- Backlight Compensation: Off/BLC/WDR
- Wide Dynamic Range: 120dB
- Digital Noise Reduction: SSNR (Off/On)
- Electronic Shutter Speed Minimum/Maximum/Anti flicker
- Flip/Mirror: Flip/Mirror/Hallway view
- Intelligent Video Analytics: Motion detection with metadata, Tampering, Defocus detection
- Alarm I/O: Input 1/Output 1
- Alarm Triggers: Motion, Tampering, SD card error, NAS error, Alarm input, Defocus detection.

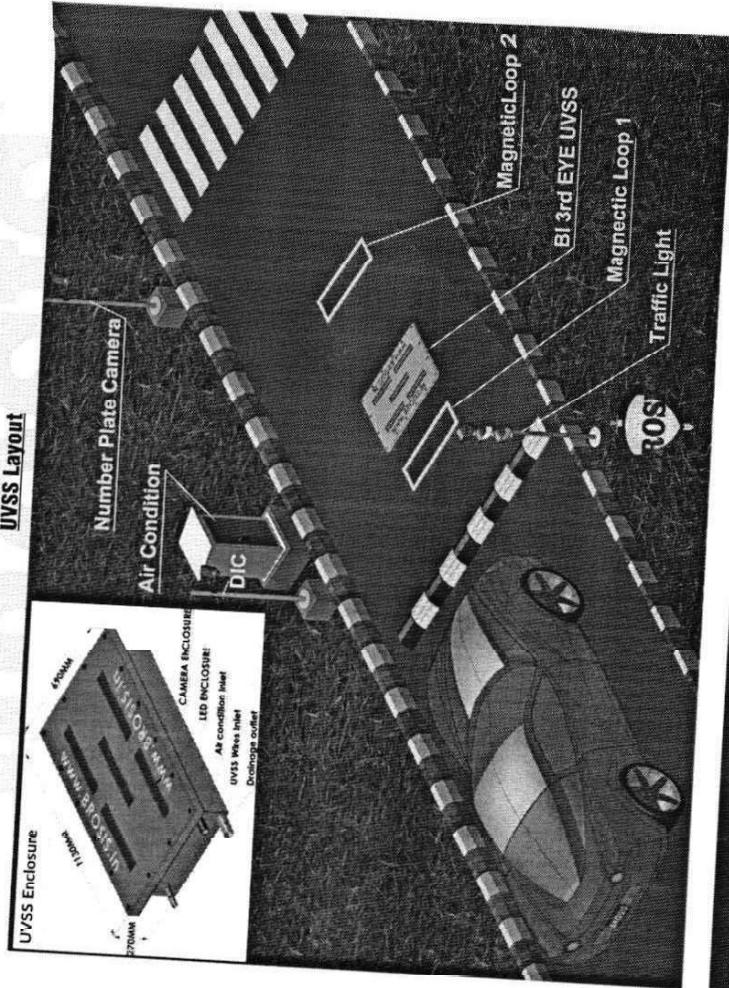


UVSS (Under Vehicle Surveillance System)

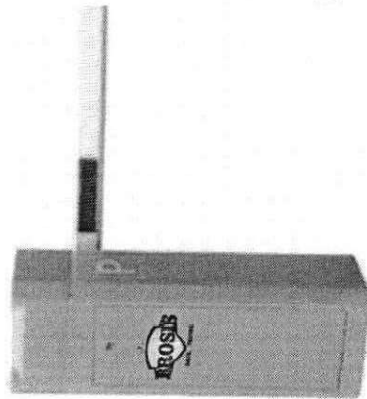
BI-3rd Eye

- Alarm Events: File upload via FTP and E-mail, Local storage recording at event, Notification via E-mail, External output
- Ethernet: RJ-45 (10/100BASE-T)
- Video Compression Format: H.265, H.264, MJPEG
- Resolution: 1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 720x576, 720x480, 640x480, 320x240
- Max. Frame rate: H.265/H.264: Max. 30fps at 2M all resolutions, MJPEG: 15fps
- Smart Codec: Wise Stream
- Video Quality Adjustment: H.265/H.264: Target bitrate level control, MJPEG: Quality level control
- Bitrate Control Method: H.265/H.264: CBR or VBR, MJPEG: VBR
- Streaming Capability: Multiple streaming (Up to 3 profiles)
- Audio I/O: Line in
- Audio Compression Format: G.711 u-law / G.726 selectable, G.726 (ADPCM) 8KHz, G.711 8KHz, G.726: 16Kbps, 24Kbps, 32Kbps, 40Kbps
- Audio Communication: Uni-directional audio
- IP: IPv4, IPv6
- Protocol: TCP/IP, UDP/IP, RTP (UDP), RTP (TCP), RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, PPPoE, FTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3 (MIB-2), ARP, DNS, DDNS, QoS, PIM-SM, UPnP, Bonjour

UVSS Layout



Boom Barrier BAR SERIES



2 – 8 m Boom length	0.9-6 sec Operating time	Versatile application
100 % Duty rating	>500 Vehicles per hour	Enhanced security

The Most Versatile & Secure Boom Gate

Brosis BAR SERIES boom barrier can be used to control entrances upto 8 meters. Barrier is designed & constructed entirely by Brosis in compliance with current safety standards, and with IP 54 protection rating. These barriers are cherished for their simple functionality, easy installation and cost effectiveness. Powerful drive unit performs flawlessly even in the most demanding operating and weather conditions.

Low Operating Costs

Thanks to their high energy efficiency, extremely long service lives, and simple maintenance, barriers from BROSIS are particularly cost-effective - an investment that will certainly pay off.

Significant Security Enhancement

BAR Series automatic barrier by BROSIS provides a significant enhancement to perimeter security, especially when combined with top & bottom skirt, electromagnetic lock, broken arm signalization and other security features.

High Speed

BROSIS BAR 3T is specially designed model with 0.9 sec opening / closing time and for very intensive use. It is designed for toll plazas where very fast opening and closing is required with reliable product.

Ultra Safe

All automatic barriers are designed with maximum safety in mind. Should you need auto reverse function, safety photocells kit, break-away arm mechanism, flashing light, and boom LED lights or even more, your wish is granted. Search no more.

High Capacity

BROSIS automatic barrier gate has a high throughput rate ranging from 300 to more than 500 vehicles per hour, depending on boom length.

Intelligent

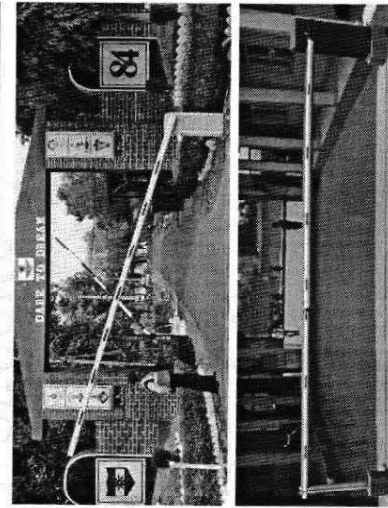
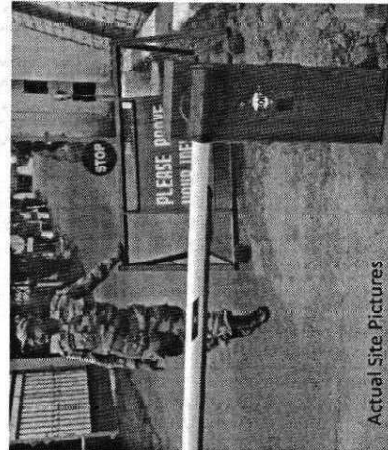
Automatic barrier gates by BROSIS are not only efficient but also intelligent. With dual channel vehicle detector besides vehicle presence they are able to detect vehicle direction, which is extremely useful for vehicle counting upon integration with VMS software.



Boom Barrier BAR SERIES

Technical Specification

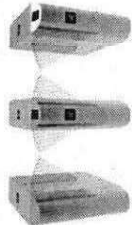
MODEL	BAR 3T	BAR 6	BAR 8
Drive unit	Gear operated electromechanical		
Power supply	220 VAC ± 10%, 50/60 Hz, 1 phase		
Bcom length	3m	6m	8m
Bcom Type	Round	Octagonal	Round
Operating time	0.9 sec	4-6 sec	6 sec
Housing finish	Hot dip galvanizing followed by anti-UV rays epoxy powder coated		
Housing material	Galvanized plate or Cold roll plate, 2.0mm thickness sheet, 3 years without rust, shedding and fading		
Bcom	Aluminum with red reflective strips		
Installation	Both left & right assembly		
Control Unit	Microprocessor		
Swing away flange	Available	—	—
Duty Cycle	100%		
Spring and bearing	Heat treatment: more durable		
Protection class	IP 54		
Operating temperatures	-30° C to +70° C		
MTBF	50,00,000		
Certification	ISO & CE certified		
Integration	NO/NC dry relay contact, RS485 and can be integrated with access control		
Color Options	Yellow/Red/Grey		
SAFETY	Available in case it meets any obstacle in its movement.		
Reverse Back Option	Photo sensors		
Safety against humans	Traffic lights (Red/Green) - optional		
Driver Alert	Self Locked in any position to avoid unauthorized person to manually operate arm.		
Lo'k			
POWER FAILURE			
Manual	Manual release keys		
Back up	Batteries - optional		



Actual Site Pictures

Flap Barriers

BFB 550/900

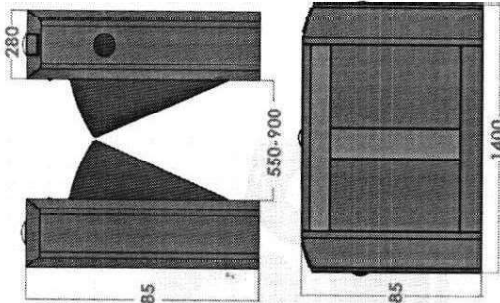


Brosis BFB 550/900 Flap Barrier is a waist-high pedestrian flap barrier system available as a single or multiple-lane set up designed for smooth and silent operation and draws very little power. It is made of AISI 304 stainless steel grade which makes BFB 550/900 highly durable and reliable. It is compatible with most access control systems, such as biometric, proximity readers, RF readers, to prevent unauthorized access pedestrian safety has also been taken into account.

BFB 550/900 is an ideal indoor solution for railway platform, passenger terminal, metro entrances and exits, airports, checkpoints, factories, stadium, industrial or Government buildings. Flap barrier gives a more premium and organized entrance to your building.

Special Features

- AISI 304 stainless steel housing ensure long lasting durability.
- Low power consumption, energy conservation and environment protection.
- Flap barrier provides wide opening and making it comfortable passage for pedestrian of any size as compare to turnstile.
- Users on wheel chair can also pass.
- Fast opening/closing time upto 0.8 sec thus allow fast passages and hence reduce long queue in front of entrance / exit during peak hours.
- 6 (six) IR sensors for safety of pedestrians / users.
- Flap wings will pause if any pedestrian / user is detected by IR sensors instead of getting reverse and will resume closing when passage is clear. This will effectively discourage tailgating.
- Flap wings will close only when passage is clear thus avoid crushing onto the users / pedestrians.
- Automatic opening of flaps to allow free passage in case of any emergency (power failure).
- Flaps will automatically reverse if something block the passage to avoid motor overload and damage itself.
- Flaps will automatically close if there is no pedestrian / users passing through after the delay time elapsed.
- Built in high sensitive infrared photocell to detect unauthorized access. Alarm will sound and help guard for immediate response. It will sound if there is unauthorized user attempting to enter from opposite direction or when user is staying inside the passage for too long time.



Technical Specification

MODEL	BFB 550/900
Material	Housing made of AISI 304 stainless steel (Optional in M.S. powder coating)
Passage width	550 MM (standard), 900 MM available on request (for users on wheel chair)
Power supply	220 VAC $\pm$ 10%, 50/60 Hz
Maximum power consumption	60 W
Opening / closing time	0.8 sec
Maximum flow rate	30 - 40 persons per minute
LED indicator	Yes
Drive unit	Electro - magnetic DC
Dimensions	1400 MM x 280 MM x 985 MM
Duty cycle	100%
Protection rating	IP 44



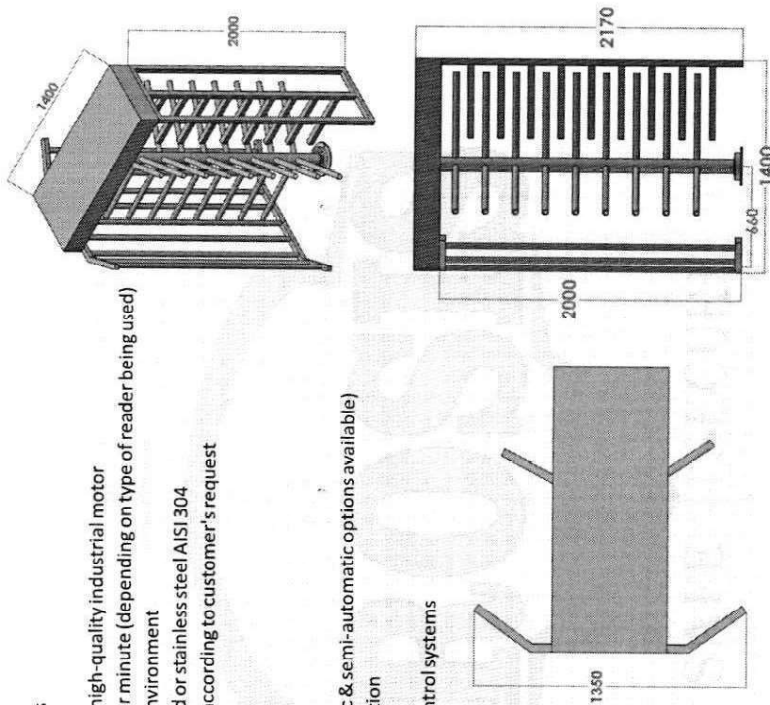
Full Height Turnstile

BFT 590

Brosis BFT 590 is bi-directional full height turnstile designed for intensive pedestrian movement sites such as industrial parks, sports complexes, stadiums, schools & universities, exam halls, factories etc. It consists 3 or 4 arms that rotate to allow only one person to pass per rotation. It can be easily integrate with access control and computer, turnstiles can help to maintain attendance record, entry and exit timings of staff and visitors.

Special Features

- Prevents unauthorized access
- Ensures one passage at a time
- Powerful drive unit featuring high-quality industrial motor
- Flow rate ~20-25 passages per minute (depending on type of reader being used)
- Designed for harsh outdoor environment
- Available in hot-dip galvanized or stainless steel AISI 304
- Complimentary color design according to customer's request
- Durable composite top cover
- Vandalism-proof design
- Long service life
- Smooth and quiet operation
- Bi-directional (both automatic & semi-automatic options available)
- Fail-lock or fail-safe configuration
- Self-centering mechanism
- Compatible with all access control systems
- Battery backup (optional)
- 24/7 continuous operation
- No staff necessary
- 100% factory tested



Technical Specification

MODEL	BFT 590
Material	Housing made of AISI 304 stainless steel (Optional in M.S. powder coating)
Passage width	590 MM
Passage height	2000 MM
Passage lanes	Single or double lane (as per customer requirement)
Power supply	220 VAC $\pm$ 10%, 50/60 Hz
Maximum flow rate	20 - 25 persons per minute (depend on type of reader being used)
LED indicator	Yes
Duty cycle	100%
Nc. of arms	3 (120°) or 4 (90°)
Operating temperature	-20°C to +60°C

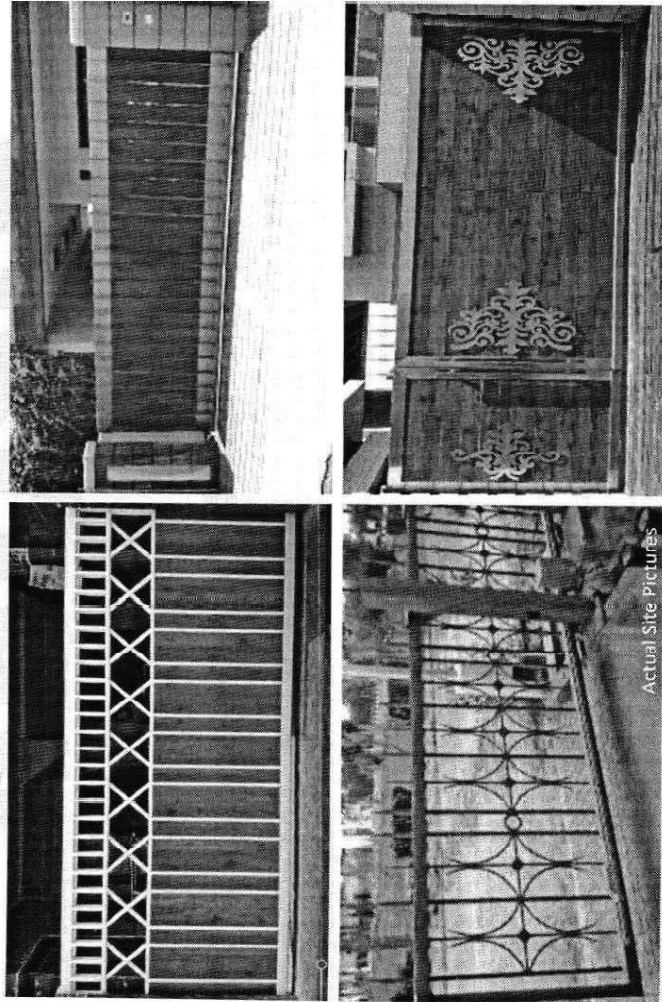
Cantilever Sliding Gate



Brosis cantilevered sliding gate system is based on the principles of counter balancing. The gate slides on carriages, which are fixed on a concrete block located on the push back side. According to the opening position of the gate, the carriages are in contact with either the upper or the lower part of the track to ensure a perfect balance.

Features & Advantages

- No steel track on the ground.
- No concrete tie-beam is required to install or support the track.
- The only construction work consists in the concrete block located on the push back side.
- No risk of wear or deformation of the track due to the passage of lorries.
- No risk of ground deformation due to the weather changes.
- No obstruction of the track trough dust, gravel, stone chips.
- Polyamide nylon rollers hold the gate vertically and support movement of gate to run in line and reduce noise and vibration during operation.
- The gate can be installed on a non-stabilized ground (grass, gravel, mould...) and unsealed surfaces, and are extremely reliable.
- Compared to sliding gates, minimal disruption is caused to the site during installation.
- They are easier to safeguard when automating and can be set up to completely avoid closing on an obstruction
- They are aesthetically appealing; their efficient design will impress owners, visitors and customers visiting your property.
- The gate is available in variable heights, clear opening / widths, in fill types as per requirement.



Actual Site Pictures

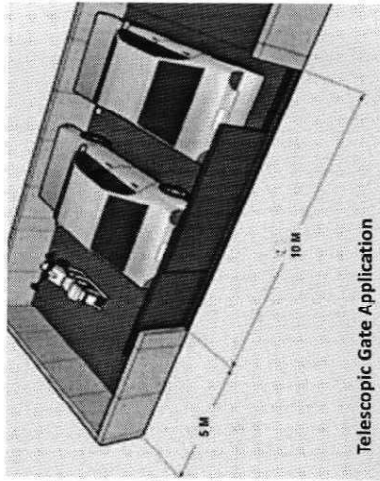
Telescopic Sliding Gate



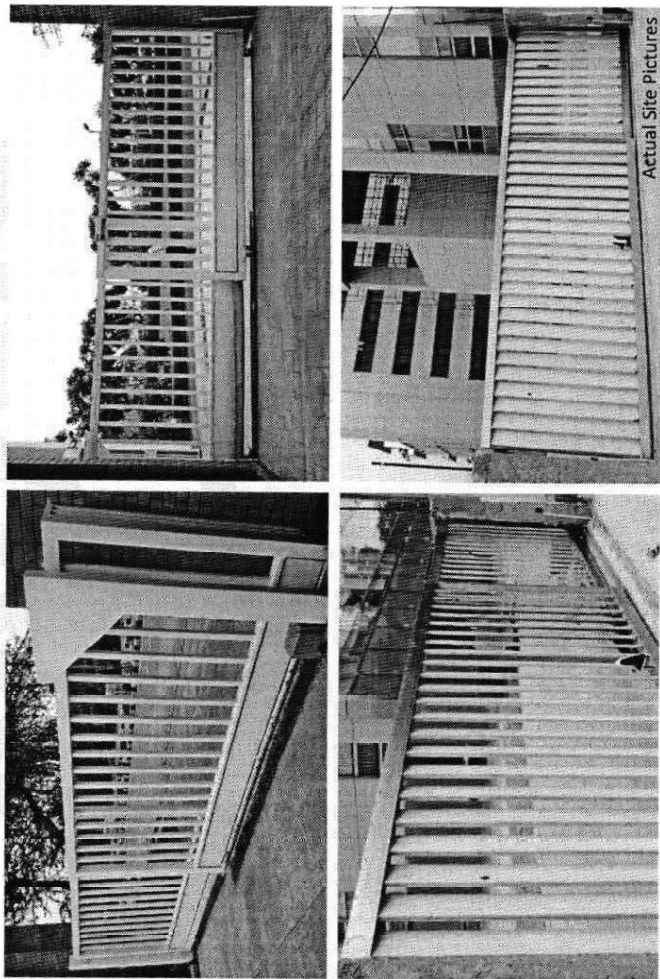
Brosis provide options where space is limited and a sliding gates is required. The gates are manufactured so that two or three leafs of sliding gates are installed onto the one side and slide in a staggered format towards the closing position. A telescopic sliding system is the perfect solution for gates where the run-back area is less to install a double swing gate or where the side space is less for a standard sliding gate. Our concept is the easiest and cheapest solution to build a reliable telescopic automatic sliding gate. Telescopic sliding gates use a block and rail guide system, required two tracks and one automatic operator.

Features & Advantages

- High opening and closing speed as compared to other sliding gates.
- Long life with minimum maintenance.
- Suitable for very large openings.
- Perfect for the sites where there is little run back space available than opening of gate.
- Reliable and economical electrical drive units with almost silent operation.
- Bottom wheels of gate and bottom rail are made of special EN series high quality for good ductility and shock resistance.
- The gate is available in variable heights, clear opening / widths, in fill types as per requirement.



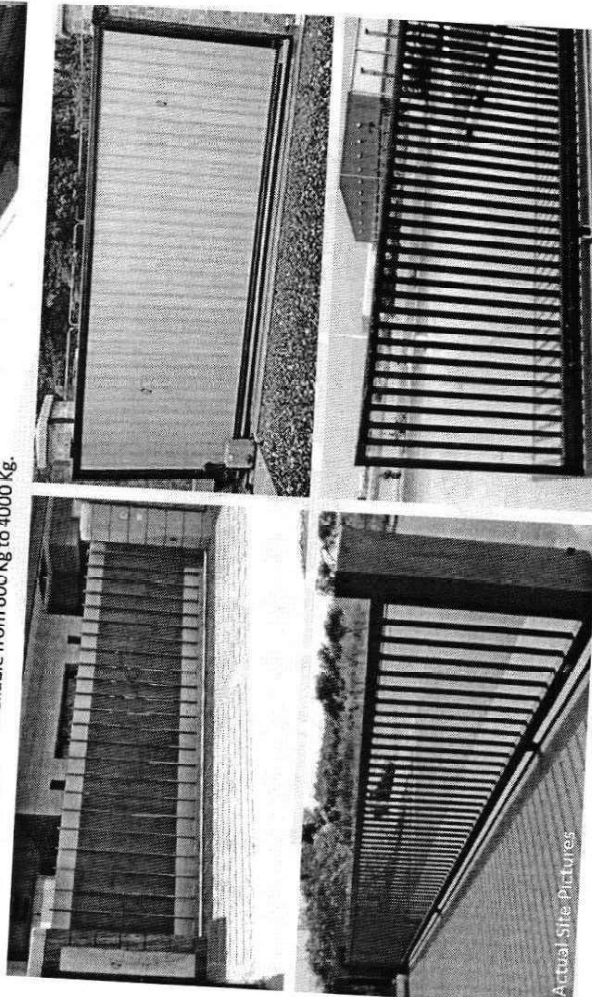
Telescopic Gate Application



Actual Site Pictures

Automatic Sliding Gate

- Sliding gate operate on bottom wheels that run on metal track which is concreted into a concrete footing.
- Wind pressure effect is minimum on these gates due to top and bottom support.
- Complete driveway space available as the gate slide along the wall.
- Galvanized heavy duty wheels used which does not require lubrication and nylon roller support kit provided for smooth and sound free operation.
- German or Italian make automation options available.
- Hot tempered rail track used for smooth running of wheels.
- All gates supplied with two coat grey epoxy primer.
- Available in mild steel, stainless steel and aluminum.
- A gate may slide to the left or right.
- Sliding gate operators are available from 600 Kg to 4000 Kg.



Actual Site Pictures

Automatic Swing Gate

- Swing gates are ideal where driveway access is critical. Swing gates open on their axes so that they swing towards or away from individuals. We manufacture automatic swing gates in architectural/customized designs and are easy to install. These can be manufactured in mild steel, stainless steel, hot dip galvanized steel or cast iron.
- These are provided with self-locking electromechanical operator or hydraulic operator depend on the weight and size of gate. Ideally our all automatic swing gates are set up on a structural metal frame, good quality pivots (hinges) or wheels.



Swing Gate Motors

Raider 2500

- Low-voltage, electromechanical operator for swing gates. Residential use.



Technical Specification

Power supply	230 V(AC); 50/60 Hz
Motor power supply	24 Vdc
Absorbed power	100 W
Absorbed current	5 A (max.)
Max. thrust force	2500 N
Piston stroke	400 mm
LINEAR SPEED	16 mm/sec.
Operating temperature	-20°C to +70°C
Max. leaf width without electric lock	1.8 m
Max. leaf width with electric lock	3.0 m
Max. LEAF weight	300 kg (for leaf 3 m), 500 kg (for leaf 2 m)
Anti-crush safety device	Electronic
EMERGENCY RELEASE	Manual
Protection class	IP44

AP350

- Operator for swing gates. Residential use for wings up to 3m 350Kg.



Technical Specification

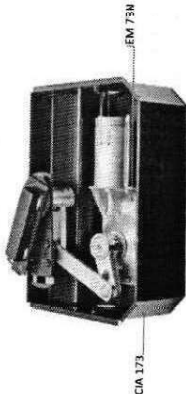
Power supply	230 V (AC); 50/60 Hz
Power Input	280 W
Current consumption	1.8 A
Stroke rate	1.8 cm/sec
Maximum stroke length	400 mm
Maximum wing size	3m
Maximum wing weight	350 Kg
Protection rating	IP 44
Thermal protection	150 p
Operating cycles/hr	25
Operating temperature	-20°C to +70°C
Condenser capacity	8 uF
Clutch	Electronic clutch with easy and quick travel adjustment, With possibility to adjust the delay time of the second gate
Engine weight	6 Kg
Control Unit	Microprocessor
Receiver	Built - in 433 Mhz

Swing Gate Motors



EM73N

- Underground electromechanical operator for swing gates. Residential use.



CIA 173

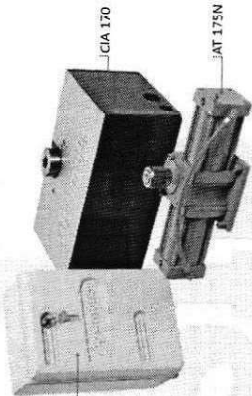
REM 73N



Main Power Supply	230 V (AC); 50/60 Hz
Motor Power Supply	24 Vdc
Wing Opening Angle	110°, 140°, 180°
Width / Weight	1,8 m / 400 kg, 3,5 m / 200 kg*
Protection Degree	IP67
Absorbed Power	200 W
Absorbed Current	10 A
Nominal Torque	280 Nm
Operating Temperature	-20°C to +70°C
110° Opening Time	20 s
Slowdown	Optional
Weight Operator	9kg

ZT 70

- Underground swing gate hydraulic operator. Residential and condominium use.



ZT 70

ICIA 170

AT 175N

Hydraulic Control Unit ZT 70	B4
Single-phase Power Supply	230 V (AC); 50/60 Hz
Absorbed Power	250 W
Max. Wing Width (m)	2.0
Pump Capacity (Lt/min)	0.6
Protection Degree	IP54
Operating Temperature	-20°C to +70°C
Max. Operating Pressure	40 Bar
Oil Quantity	1 Lt
Oil Type	Aprim Oil
Weight With Oil	5 kg
JACK	AT 175
Max. Useful Operating Angle	110° max.
Max. Wing Weight	800 kg
Protection Degree	IP67
Angular Pump Speed From 0.6 Lt/min.	6°/s
Angular Pump Speed From 0.75 Lt/min.	7°/s
Nominal Torque	410 Nm
Weight With Oil	12 kg
Oil Quantity	1 Lt
Oil Type	AprimOil

Sliding Gate Motors



ONDA Series

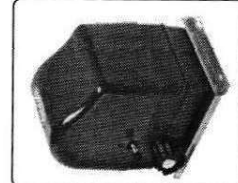
Gear Motors in 24 V(DC) and 230 V (AC) to automate residential, commercial or industrial gates of all types i.e. conventional sliding gate, cantilever gate or telescopic gate from 400 Kg to 2000 Kg. These motors have built-in electromechanical lock and can be integrated with any access control system. These can be operated with remote control, push button, GSM receiver (for operation through mobile), key switch etc..

DESCRIPTION	ONDA 624	ONDA 800	ONDA 2000
Main Power Supply	230 V (AC); 50/60 Hz	230 V (AC); 50/60 Hz	230 V (AC); 50/60 Hz
Motor Power Supply	24 Vdc		
Max. Wing Weight	600 kg	800 kg (Z16)	2000 kg
Cycle Number	100 cycles/day	100 cycles/day	1000 cycles/day
Protection Degree	IP44	IP44	IP44
Max. Absorbed Power	80 W	260 W	700 W
Max. Thrust Force	650 N	1250 N (Z16)	2570 N (Z16)
Max. Linear Speed	10 m/min	9,5 m/min (Z16)	9,5 m/min
Operating Temperature	-20°C to +55°C	-20°C to +70°C	-20°C to +70°C
Height Of Pinion From Ground	55 mm	70 mm	85MM
Weight Operator	7 Kg	11 Kg	18 Kg

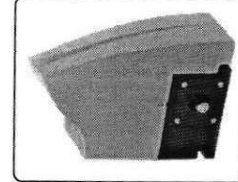
AT Series

Gear Motors in 3 phase for industrial use if gate weight range from 2000 kg to 8000 kg. Intensive use.

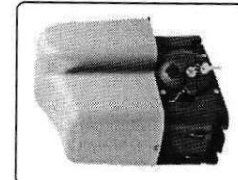
DESCRIPTION	AT 88T	AT 90T
Main Power Supply	Three-phase 230/400 V - 50/60 Hz	Three-phase 230/400 V - 50 Hz
Max. Gate Weight	4000 Kg	8000 Kg
Protection Degree	IP44	IP44
Motor Power	0,96 kW	1,5 kW
Max Absorbed Current	2,6 A	3,5 A
No. Of Motor/Pinion Revs g/1'	1400/33	1400/23
Drive Speed m/1'	9	8
Pinion Module	4 mm	5 mm
Operating Temperature	-15°C to +60°C	-15°C to +60°C
Lubricant Brand	API DT SINT 320	DTSINT 320
Weight Operator	50 kg	70 kg



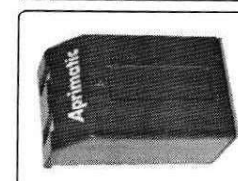
ONDA 624



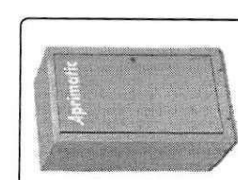
ONDA 800



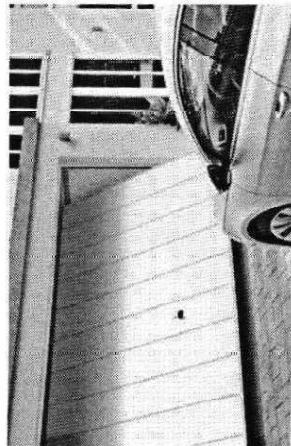
ONDA 2000



AT 88T



AT 90T



- ◆ Brosis Garage doors are developed to accommodate automobiles and other vehicles. Garage doors are made in a single panel that tilts up and back across the garage ceiling.
- ◆ The operating mechanism is spring-loaded or counterbalanced to offset the weight of the door and reduce human or motor effort required to operate the door.
- ◆ Door with counterweight balancing system. During opening and closing the door can remain completely flush or partially protrude.
- ◆ Doors are manufactured in sectional steel frame clad with HPL, Wood, ACP in customised designs.
- ◆ Hydraulic operator for up-and-over doors. Residential, condominium and intensive use.

Maximum anti-crushing safety thanks to the sensitive edges (optional) combined with maximum pressure relief valves that limit the maximum value of the hydraulic pressure in the presence of obstacles (adjustable during installation).

Ideal for heavy workloads in the presence of large-sized up-and-over doors.

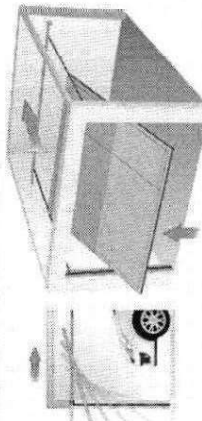
Locks on opening and closing (double lock) the door remains shut without installing further locks

AT 50 can be easily installed without modifying the up-and-over doors.

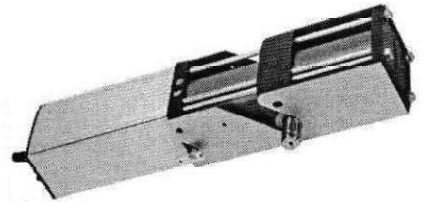
Very high resistance to shocks and stress during operation thanks to the ductile cast iron body.

Great hydraulic sealing thanks to internal scrapers.

Silent and regular performance guaranteed by polyurethane seals and P.T.E. guide rings.



Main Power Supply	230 V (AC); 50/60 Hz
Nominal Torque At 40 Bar	320Nm
Sheet Dimension	3,5 x 3 m single motor, 5 x 3 m double motor
Protection Degree	IP54
Absorbed Power	250 W
Nominal Torque at 40 Bar	320 Nm
Operating Temperature	-20°C to + 60°C
Opening Time	13 - 15 sec.
Max. Operating Pressure	40 bar
Pump Capacity	1 Lt/min
Oil Quantity	1,3 Lt
Weight With Oil	13 kg
Oil Type	AprimOil
Slowdown	With T3E unit
Weight Operator	10 Kg



Manage your access control with TOTAL BA

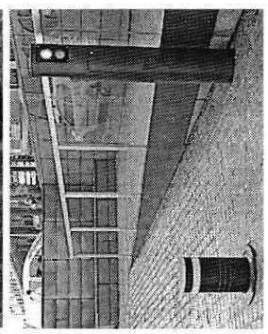
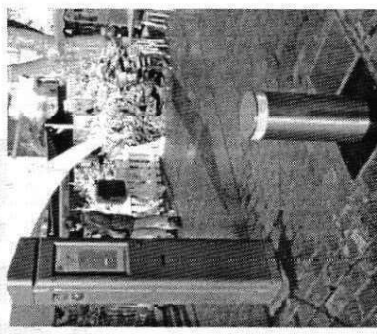
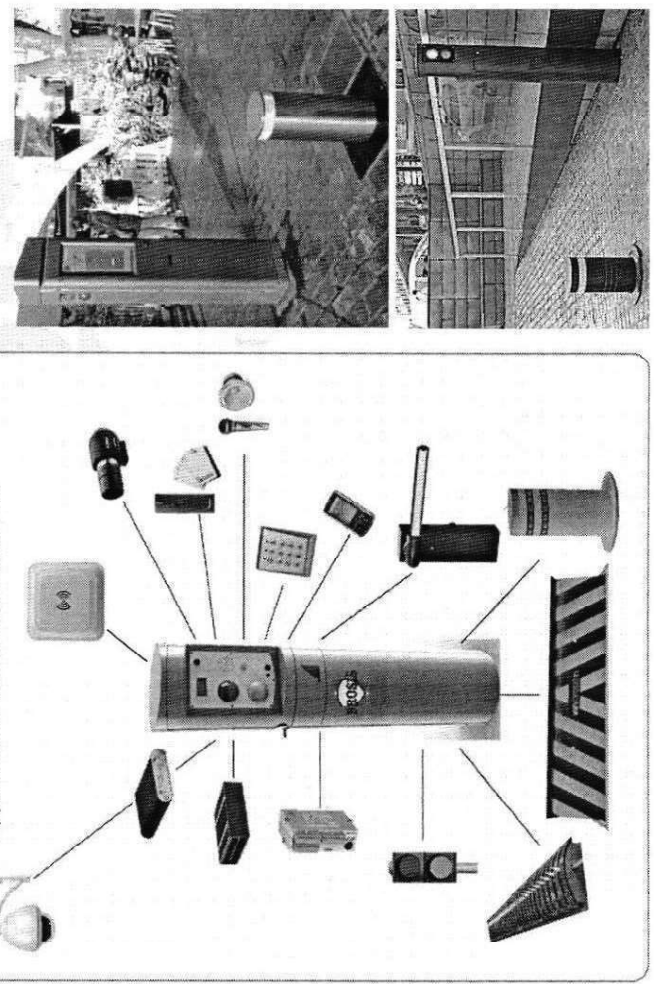
Brosis TOTAL BA is a technical access control tower designed & developed to host the various equipment, control and safety devices, necessary for the operation of retractable barriers.

It allows the integration of control for access management equipment (controller for tag reader, printer, HF receiver etc for barriers like road blockers, bollards and tyre killer, ANPR.

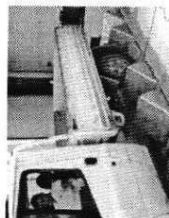
Special features

- ◆ AISI 304 stainless steel or M.S. galvanized epoxy powder coated body
- ◆ Ventilated heating to prevent condensation
- ◆ Removable top part for raising options
- ◆ Locking the door with an anti-vandal lock
- ◆ Protection Rating: IP 67
- ◆ Access control equipment: intercom, camera, badge reader, code keypad, remotes etc.
- ◆ Extension, single or double sided, fixed or adjustable, equipped with a red light or several traffic lights, buzzer, emergency alarm, walkie talkie, controllers, key switch.

Applications Possible with TOTAL BA



Truck Wheel Stopper / Vehicle Restraint HALT ST



BROSIS HALT ST represents a new system for safety of vehicles docked at loading bays during loading / unloading operations. Easy to use, BROSIS guarantees a safe and continuous function and is at the forefront when it comes to comply with standards in force. This system consists of a series pneumatically lifted wedges which are placed near the back wheels of the vehicle already in loading / unloading position.

This prevents any accidental movement which would create danger for people handling the goods.

Avoid Risk

- Unexpected departure of the truck
- Progressive movement of the trailer
- Unexpected departure of the truck and falling over of the forklift driver
- Cause to No communication between the bay operator and the truck driver
- Progressive movement of the lorry and fall over of the forklift driver

Main Advantages

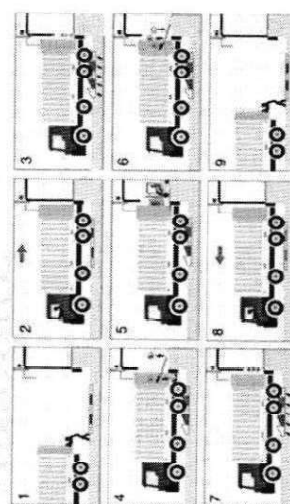
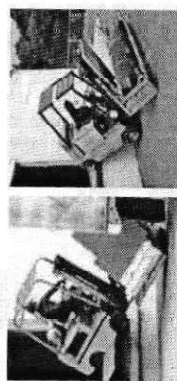
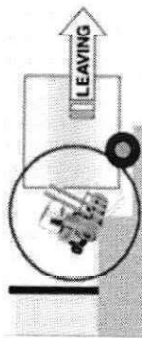
- Immobilize all types of trailers
- Simple and reliable
- Make the operation automatic
- Can be installed in any conditions (new building, existing levelers and wheel guides, ...)
- Simple preventive and curative maintenance
- Enslavement with the loading bay door.
- Load capacity - 40 tons.

Operations

- Principle: loading bay door "open", chocks raised, loading bay door "closed", chocks in lowered position

The Usual Working Procedure

- 1-2. The lorry arrives and reverse over the lowered chocks.
3. The bay operator open the door/barrier lifting up automatically the chocks. The lorry is immobilized.
- 4-5. Once the chocks are raised, the forklift driver is allowed to position the dock leveler. The loading and unloading operations can proceed with minimal risk.
6. At the end of the loading / unloading operation, the dock leveler is retracted.
- 7-8-9. The bay operator close the door / barrier, that lowers the chocks automatically. The chocks, when fully lowered allow the lorry to leave.



JSR TECHNO SOLUTIONS

Off: -Plot No 792/1, Vivekanada Nagar colony, Kukatpally, Hyderabad -500 072, Telagana.

Reg off: - Flat No 402, Divya sri, V.V Nagar, HYD-72.

Mob: +919849612359, e-mail: jsrtechnosolutions@gmail.com

Date: 07-05-2019

Ref No: JSRTS/2019-20/003

To,
M/s Modi Properties
Secunderabad

Kind Attn:- Mr.Sitaram.

Dear Sir,

Sub: - Quotation for Boom Barrier as per your requirement -Reg.

QUANTITY	DESCRIPTION	HSN CODE	UNIT PRICE	TOTAL PRICE
4 NOS	BOOM BARRIER MODEL BAR 6 LENGTH OF BARRIER UPTO 6 METER (BOTH FOR 4 METER & 6 METER) ELECTROMECHANICAL BARRIER PHOTOCELLS INCLUDED PUSH BUTTON INCLUDED FIXED BOOM REST FOUNDATION PLATE FOR MOUNTING BARRIER	8530	66,000/-	2,64,000/-
2 NOS	LONG RANGE READER WIEGAND INTERFACE (UPTO 12 METER READ RANGE) – MODEL B1106 – ONE FOR ENTRY/ONE FOR EXIT	8530	46800/-	93,600/-
1 NOS	DOUBLE DOOR IP CONTROLLER	8530	30,000/-	30,000/-
1 NOS	"TAG FOR VEHICLE – ALIEN H3 860~960MHZ STANDARD: EPC CLASS 1 GEN2 CHIP; PROTOCOL: ISO 18000-6C; LABEL SIZE: 76.2MM*101.6*0.35MM; MATERIAL : PAPER DESTRUCTIBLE DESIGN; ANTENNA MATERIAL: ALUMINUM ETCHING; STORAGE MEMORY: 96 BITS EPC NUMBER & 512 BITS USER MEMORY; DATA STORAGE : 10 YEARS; READ/WRITE:100,000 TIMES"	8530	99	AS PER REQUIRED QUANTITY
1 NOS	SOFTWARE FOR UHF RFID READER (VMS) - CUSTOMISED	8530	42000/-	42000/-
2 NOS	POLE FOR RFID READER	8530	2400/-	4800/-
1 PROJECT	INSTALLATION & COMMISSIONING (WITHOUT CIVIL & ELECTRICAL WORK)	8530	EXTRA	EXTRA
Payment terms and conditions: 1. Payment: 100% advance. 2. Freight: Extra as actual.		SUBTOTAL (EX GST)		4,34,400/-

JSR TECHNO SOLUTIONS

Off: -Plot No 792/1, Vivekanada Nagar colony, Kukatpally, Hyderabad -500 072, Telagana.

Reg off: - Flat No 402, Divya sri, V.V Nagar, HYD-72.

Mob: +919849612359, e-mail: jsrtechnosolutions@gmail.com

Terms & conditions: -

1. Payment: - 100% advance for supply.
2. Warranty: - 14 Months from invoice date.
3. Taxes: - 18% GST Extra.
4. Freight: - Extra as actuals.
5. Delivery: -2 to 3 weeks from the date of confirmed order & Advance.
6. Validity: - Valid for 30 days from the date of Offer.

Looking for your favorable Order.

Your's faithfully.

For JSR Techno Solutions

Authorized Signatory.

List of clients:

1. Airforce Station, Halwara, Punjab
2. Airforce Station, Zirakpur
3. Airforce Station, NAL, Rajasthan
4. Dream Park International, Bangladesh
5. Walton HI-tech Limited, Bangladesh
6. Bharat Electronics Limited, Bangalore
7. Shaheed-E-Azam Sardar Bhagat Singh Museum, Kapurthala, Punjab
8. CRPF, Jalandhar
9. HCL, Gurgaon
10. Jindal Steel, New Delhi
11. Bharti Airtel, New Delhi
12. BMW, Ludhiana, Punjab
13. AUDI, Ludhiana, Punjab
14. International Tractors (Sonalika), Jalandhar, Punjab
15. Hindustan zinc limited, Rajasthan
16. Vedanta Group, Rajasthan
17. Trident group, Barnala, Punjab
18. Marico limited, Baddi, H.P.
19. ITC, Manesar, Haryana
20. L & T, Surat, Gujarat
21. Ambuja cements, Ropar, Punjab
22. Hero group, Gurgaon, Haryana
23. Siemens, Bangalore
24. Hotel Ritz Carlton, Bangalore
25. Nitesh Residency, Bangalore
26. DRDO Ponta Sahib, H.P.
27. DRDO, Nagaon, Assam

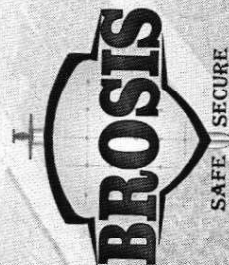
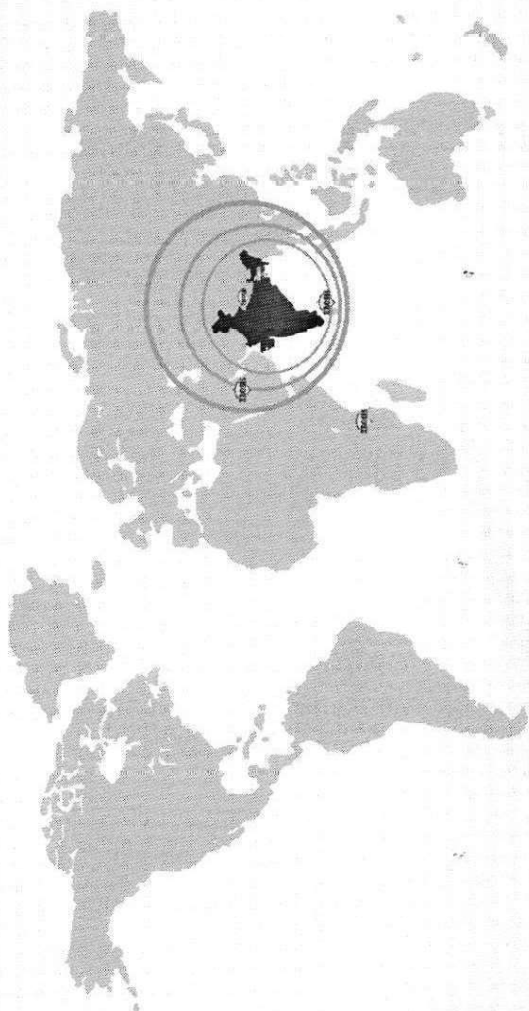
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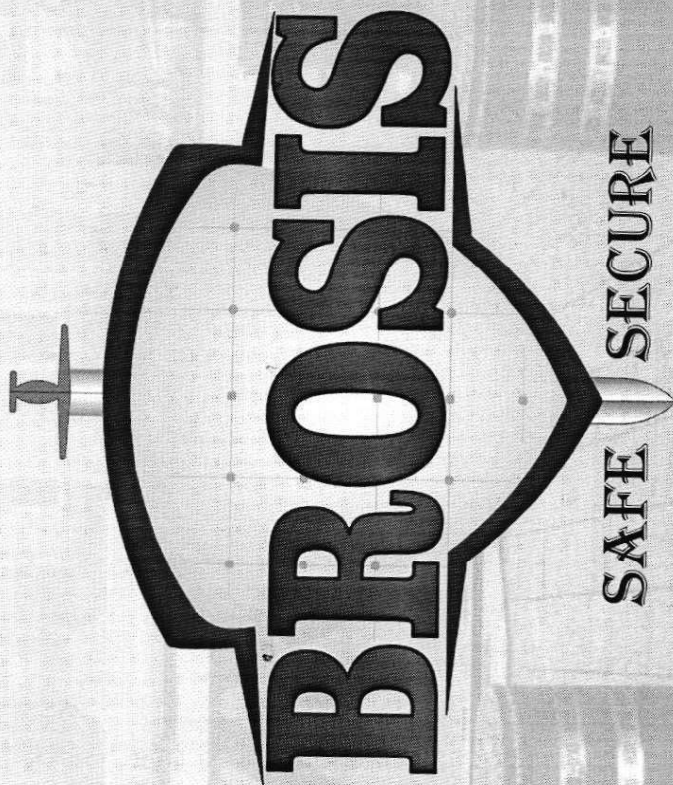
Mob: +919849612359, e-mail: jsrtechnosolutions@gmail.com

28. Kingdom of Saudi Arabia, Chanakyapuri, New Delhi
29. Asian Development Bank (ADB), Chanakyapuri, New Delhi
30. Railway Station, Paharganj, New Delhi
31. Airforce Station, Udampur, J&K
32. Airforce Station, Pathankot, Punjab
33. Airforce Station, Bhatinda, Punjab
34. Airforce Station, Dharmshala, H.P.
35. NTPC, Dadri
36. Indian Oil Corporation, Manesar, Haryana
37. CPWD, Chandigarh
38. IFFCO, Chandigarh
39. NTPC Singrauli, M.P.
40. Northern Railway, Jaipur
41. ONGC, Mangalore
42. GMR, Bangalore
43. Mumbai Aviation fuel farm facility Pvt. Ltd, Mumbai
44. Jaipur Metro, Jaipur
45. International Airport, Mangalore
46. International Airport, Coimbatore
47. Birla Hospital, Jaipur
48. Fortis Hospital, New Delhi
49. Fortis Hospital, Ludhiana, Punjab
50. Dayanand Medical College & hospital, Ludhiana, Punjab
51. Shiv Nadar School, Gurgaon, Haryana
52. IIT, Indore, M.P.
53. DLF, Manaser, Haryana
54. Domestic Airport, VIP entry, Mumbai
55. IREO, Ludhiana, Punjab
56. Vipul World, Ludhiana, Punjab
57. Vardhman, Ludhiana, Punjab
58. Montecarlo, Ludhiana, Punjab
59. Oswal, Ludhiana, Punjab
60. Unitech, Gurgaon, Haryana
61. TDI, Kundli, Haryana
62. GPL Eden Heights, Gurgaon, Haryana
63. Omega City, Kharar
64. Eldeco, Ludhiana, Punjab
65. AGI Infra, Jalandhar, Punjab
66. Simplex Infrastructures Limited, Calcutta
67. Astrum, Faridabad, Haryana
68. Supertech, Meerut
69. HSIL, Gurgaon, Haryana
70. ANSAL API, Ajmer



Brosis International

Corp. Off. : 536/25, Bock 29, Sua Roac, Industrial Area-C, Ludhiana - 141 010 ☎ +91 161 5034455
✉ info@brosis.in • mittal@brosis.in 🌐 www.brosis.in
GST No. : 03AKGPM8732K1ZY



ANTI TERRORIST | DEFENCE | COMMERCIAL | RESIDENTIAL



14th Year
in Service



Our Logo

SHIELD with SWORD signifies form of safety & defense, the very nature of a shield is to protect from something from attacking you enclose or reduce impact of threat and to provide safeguard & security.

WE BROSIS

Brosis International are manufactures /exporters/suppliers & installers for **AUTOMATED ACCESS CONTROL TECHNOLOGIES** in India since 2005, we manufacture high security products in strict compliance as per International Crashtest Standards.

We have developed infrastructure, which sprawls over area of 32000 square feet, and segregated into various departments like research & development, quality control, manufacturing, sales & marketing and administrative.

We believe in innovation & research of new products to cater security risks demand for high secure locations like **EMBASSIES, GOVERNMENT BUILDINGS, COURTS, BANKS, POWER STATIONS, MILITARY SITES, CRITICAL SITES AND AIRPORTS** etc. thus our strength is in its wide range of products to meet high security demands.

Our Products

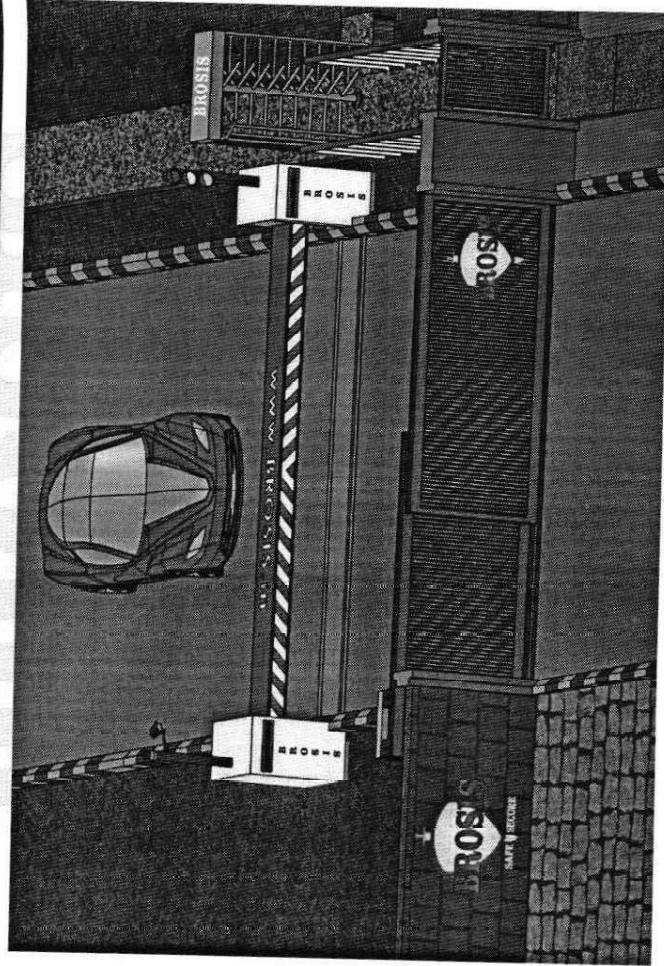
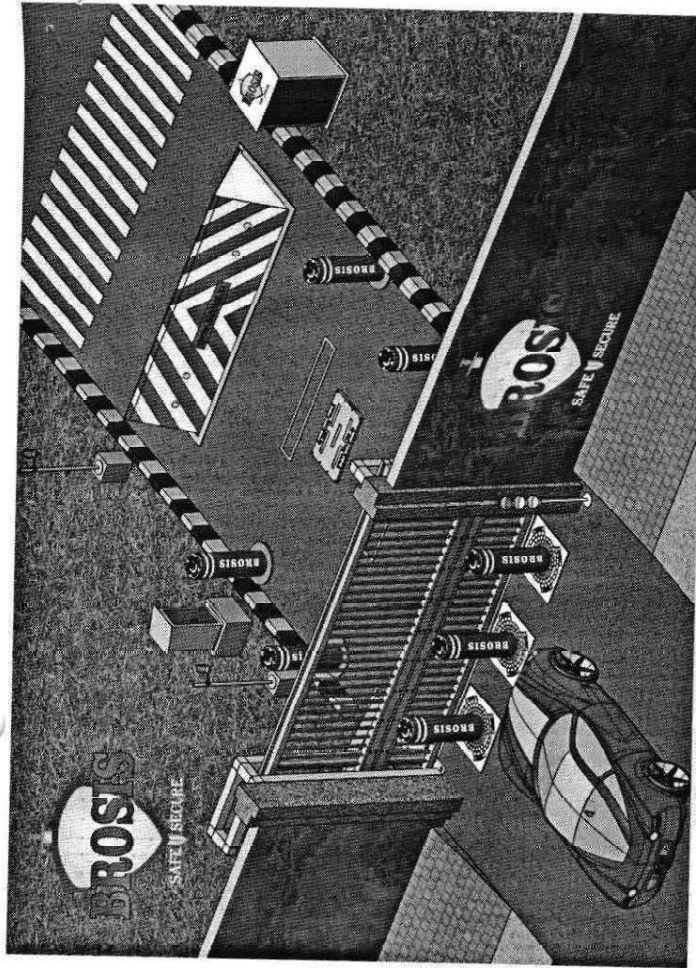
Anti-Terrorist / Defence

- Anti-Ram Road Blockers
- Shallow Mounted Road Blockers
- Anti-Ram Bollards
- Shallow Mounted Bollards
- Anti-Ram Fixed Bollards
- One Way Barrier
- Anti-Ram Barrier/Drop Arm Barrier
- Anti-Ram Sliding Gate
- Axle Breaker
- Tyre Killer / Spike Barrier
- UVSS Area (Under Vehicle Surveillance System)

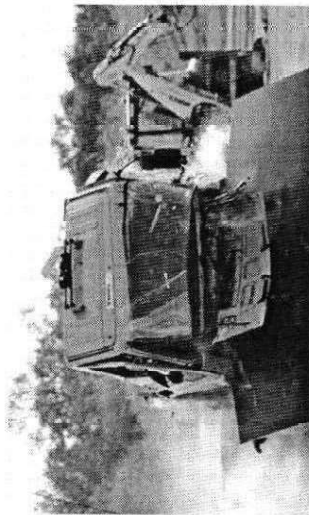
Commercial / Residential

- Boom Barriers
- Flap Barriers
- Turnstiles
- Cantilever Sliding Gates
- Telescopic Sliding Gates
- Automatic Sliding Gates
- Automatic Swing Gates
- Swing & Sliding Gates Motors
- Automatic Overhead Garage Doors
- Column of Control and Management
- Truck Wheel Stopper/Vehicle Restraint

Registered with:



Anti-Ram Road Blockers SHIELD B12



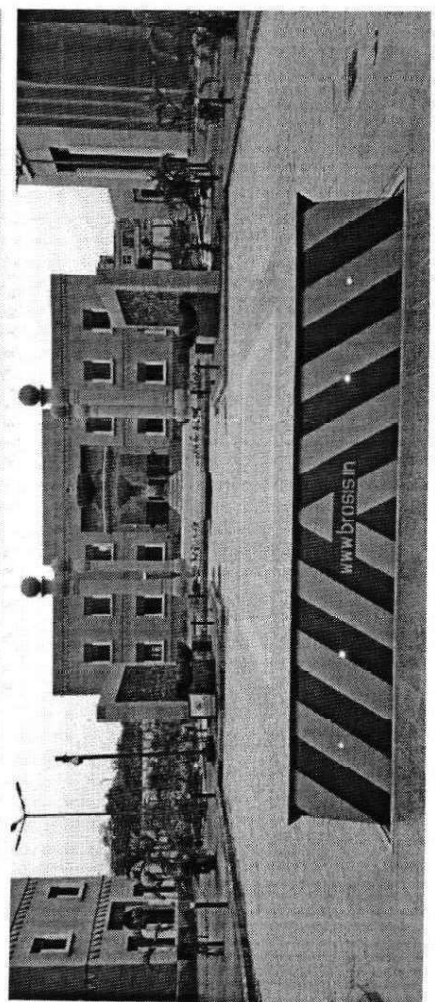
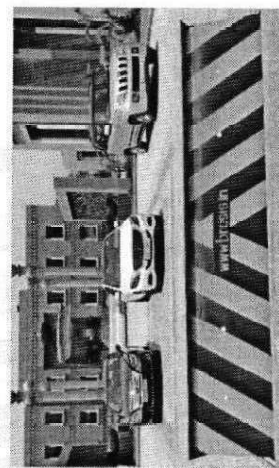
Brosis SHIELD B12 hydraulic road blockers are rated as most secure solution to minimize the destruction of the suicide truck bombings. It offers maximum security for highly sensitive entry points against unauthorized vehicles of all sizes and weights.

It is able to stop vehicle of 7.2 ton travelling at the speed of 50mph (80km/hr) and met requirements for M50: P1 rating as per ASTM F2656 (2013) standard equivalent to D/6800/88/90/2032 of BSI PAS 68 (2013) and D/6800/(N2B)/88/90:0.00 of ISO IWA 14-2 (2013).

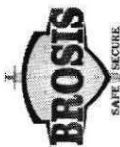
Drainage system is provided so that accumulated dirt and water can be drained out and hence does not affect the mechanism of road blocker and its working efficiency for years.



ACTUAL SITE PICTURES



Anti-Ram Road Blockers SHIELD B12

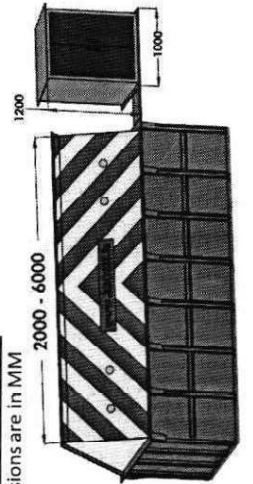


Technical Specification

MODEL	SHIELD B12
Anti-Ram class / Crash rating	Designed to stop 7.2 ton loaded vehicle @80km/hr known as K12 (M50-P1)
Drive unit	B12-H (Hydraulic - external)
Rising height	1000 mm
Width of blocked driveway	2000 mm - 6000 mm
Material	High tensile structural steel
Axle Load	50 Tons
Structure & finish	Galvanized against resist to corrosion followed by epoxy paint
Top plate	Anti-slip
Hinges	Heavy duty high tensile steel
Input Voltage	440 VAC $\pm$ 10%, 50/60 Hz, 3 phase or 220 VAC $\pm$ 10%, 50/60 Hz, 1 phase
Raise /lower time	3 - 6 sec, in emergency 1.5 sec
Oil tank	100 lt. - 350 lt.
Protection on class	IP 67
Coating	Signal yellow-black/yellow-red or customize color options available
Blocking in raised position	Hydraulic lock
Duty Cycle	100%
Breakout resistance	16,80,000 J
Operating temperatures	-20°C to + 60°C
MTBF	70,00,000
SAFETY	
Safety against: vehicles	Loop detector
Safety against: humans	Photo sensors
Control unit	PLC/microprocessor based control unit with readily available integration with all access control devices
Visual & Sound	4 nos. of LED lights on front face & buzzer for operational alert
Driver alert	Traffic light (Red/Green) - optional
Smart integration	Can be integrated with TOTAL BA
POWER FAILURE	
Power failure	Manual hand pump
Manual	Mechanical manual release device
Accumulator (optional)	Accumulator for 04 cycles up/down operations in case of power failure in emergency

Dimensions For Reference

All dimensions are in MM



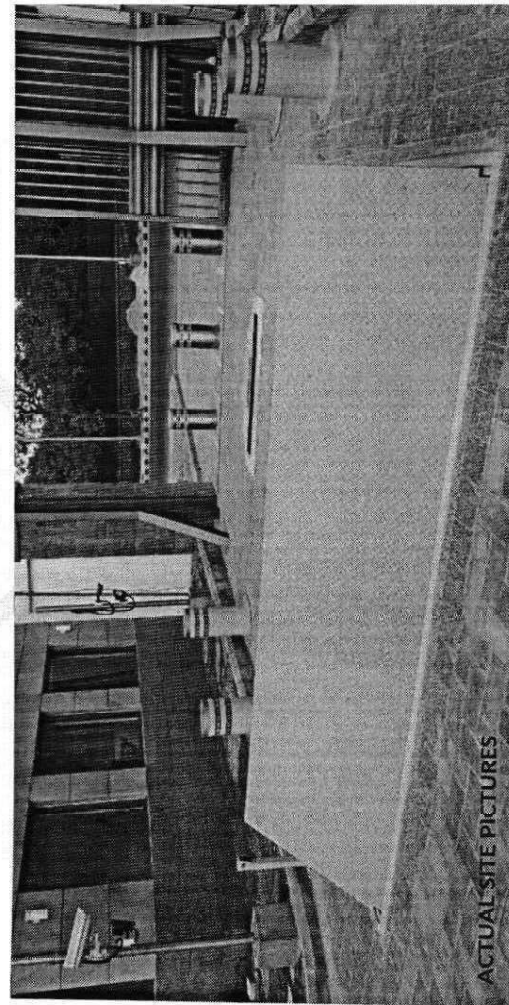
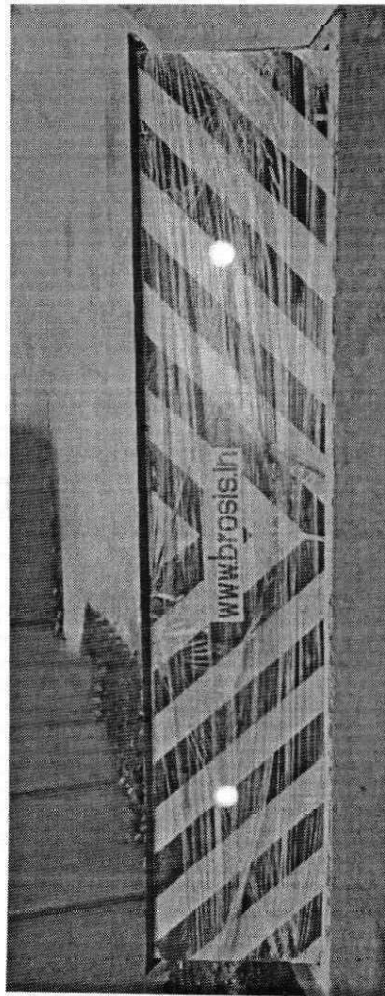
Anti-Ram Road Blockers SHIELD B4



Brosis SHIELD B4 hydraulic road blockers are rated as most secure solution to minimize the destruction of the suicide truck bombings.

It offers maximum security for highly sensitive entry points against unauthorized vehicles of all sizes and weights.

Drainage system is provided so that accumulated dirt and water can be drained out and hence does not affect the mechanism of road blocker and its working efficiency.



ACTUAL SITE PICTURES



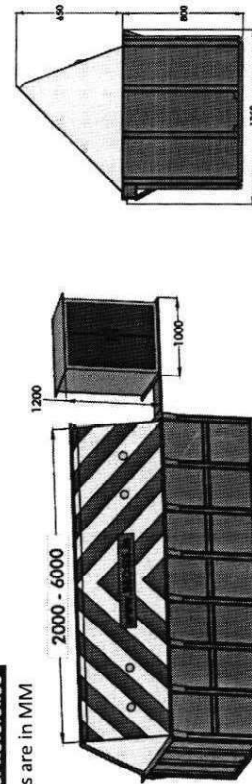
Anti-Ram Road Blockers SHIELD B4

Technical Specification

MODEL	SHIELD B4
Anti-Ram class / Crash rating	Designed to stop 7.2 ton loaded vehicle @48km/hr known as K4 (M30-P1)
Drive unit	B4-H (Hydraulic - external)
Rising height	650 mm
Width of blocked driveway	2000 mm - 6000 mm
Material	Heavy duty structural steel
Axle Load	40 Tons
Structure & finish	Galvanized against resist to corrosion followed by epoxy paint
Top plate	Anti-slip
Hinges	Heavy duty hardened steel
Input Voltage	440 VAC $\pm$ 10%, 50/60 Hz, 3 phase or 220 VAC $\pm$ 10%, 50/60 Hz, 1 phase
Raise /lower time	3 - 5 sec, in emergency 1.5 sec
Oil tank	100 lt. - 300 lt. ()
Protection class	IP 67
Coating	Signal yellow-black/yellow-red or customize color options available
Blocking in raised position	Hydraulic lock
Duty Cycle	100%
Breakout resistance	7,20,000 J
Operating temperatures	-20°C to + 60°C
MTBF	70,00,000
SAFETY	
Safety against vehicles	Loop detector
Safety against humans	Photo sensors
Control unit	PLC/microprocessor based control unit with readily available integration with all access control devices
Visual & Sound	4 nos. of LED lights on front face & buzzer for operational alert
Driver alert	Traffic light (Red/Green) - optional
Smart integration	Can be integrated with TOTAL BA
POWER FAILURE	
Power failure	Manual hand pump
Manual	Mechanical manual release device
Accumulator (optional)	Accumulator for 04 cycles up/down operations in case of power failure in emergency

Dimensions For Reference

All dimensions are in MM



Shallow Mounted Road Blockers SHIELD B12 SM

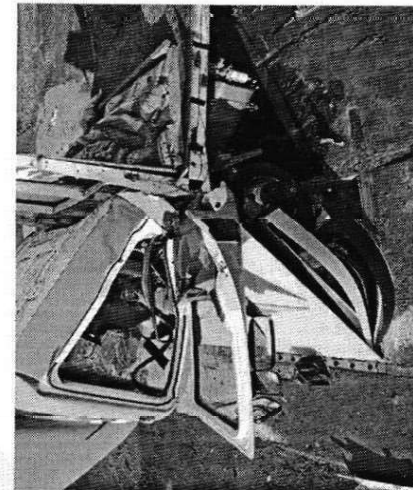
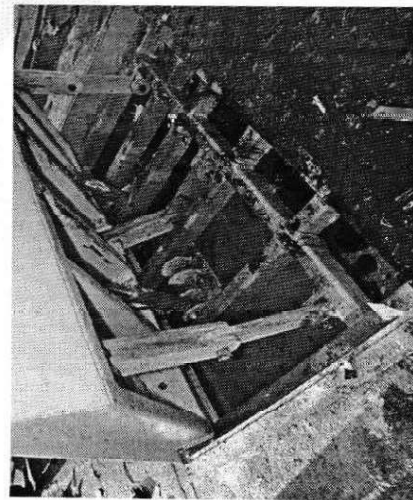
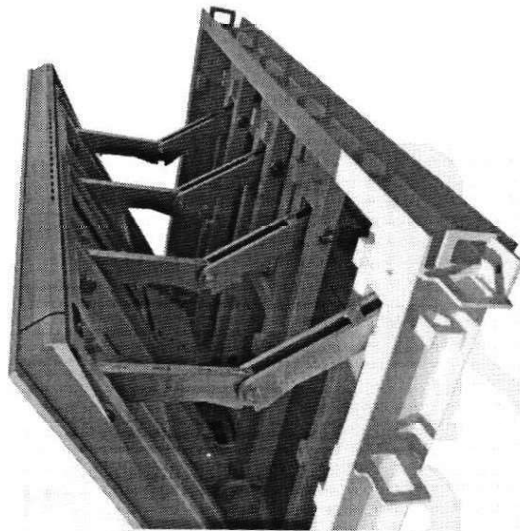


Brosis Shield B12 SM is a shallow Mount type hydraulically driven road blocker which requires maximum 400 mm excavation depth for shallow Mount installation. SHIELD B12 SM uses clever linkage to open and close, not only does this provide much smoother, quieter operation than chain driven blockers. It also protects the potentially vulnerable hydraulic ram during impact.

Drainage system is provided so that accumulated dirt and water can be drained out and hence does not affect the mechanism of road blocker and its working efficiency.

Features

- Substantially reduces installation time, cost and disruption.
- Can be installed where foundation depths cause problems.
- Made from finest material and built to highest standards.
- Due to its folding design, these can be installed with very little civil work.
- Easily serviceable.
- Housing and body is galvanised followed by anti-UV raise epoxy paint which makes it corrosion resistant.
- Manufactured and designed for intensive use.
- Will serve many years of trouble free service when used in accordance with manufacturer's instructions.



Shallow Mounted Road Blockers SHIELD B12 SM

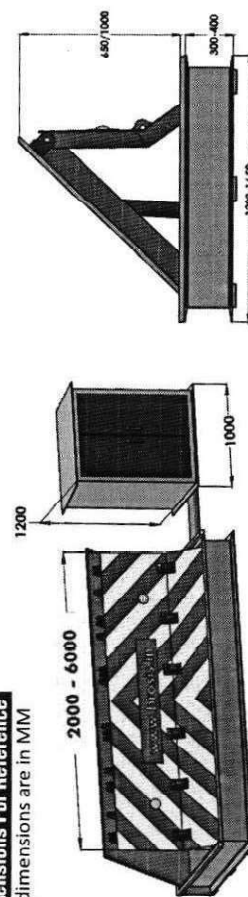


Technical Specification

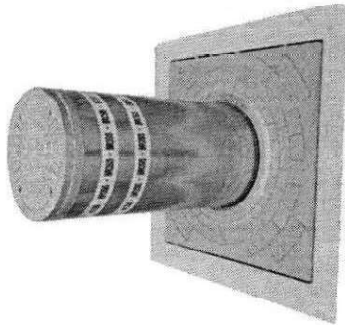
MODEL	SHIELD B12 SM
Anti-Ram class / Crash rating	Designed to stop 7.2 ton loaded vehicle @80km/hr known as K12 (M50-P1)
Drive unit	B12-H (Hydraulic - external)
Rising height	650 - 1000 mm
Width of blocked driveway	2000 - 6000 mm
Depth of unit	300 - 400 mm
Material	High tensile structural steel
Axle Load	30 Tons
Structure & finish	Galvanized against resist to corrosion followed by epoxy paint
Top plate	Anti-slip
Hinges	Heavy duty hardened steel
Input Voltage	440 VAC ± 10%, 50/60 Hz, 3 phase or 220 VAC ± 10%, 50/60 Hz, 1 phase
Raise /lower time	3 - 6 sec, in emergency 1.5 sec
Oil tank	100 lt. - 350 lt.
Protection class	IP 67
Coating	Signal yellow-black/yellow-red, or customize color options available
Blocking in raised position	Hydraulic lock
Duty Cycle	100%
Breakout resistance	15,80,000 J
Operating temperatures	-20°C to + 60°C
MTBF	50,00,000
SAFETY	
Safety against vehicles	Loop detector
Safety against humans	Photo sensors
Control unit	PLC/microprocessor based control unit with readily available integration with all access control devices
Visual & Sound	4 nos. of LED lights on front face & buzzer for operational alert
Driver alert	Traffic light (Red/Green) - optional
Smart integration	Can be integrated with TOTAL BA
POWER FAILURE	
Power failure	Manual hand pump
Manual	Mechanical manual release device
Accumulator (optional)	Accumulator for 04 cycles up/down operations in case of power failure in emergency

Dimensions For Reference

All dimensions are in MM



Anti-Ram Bollards FORCE B12

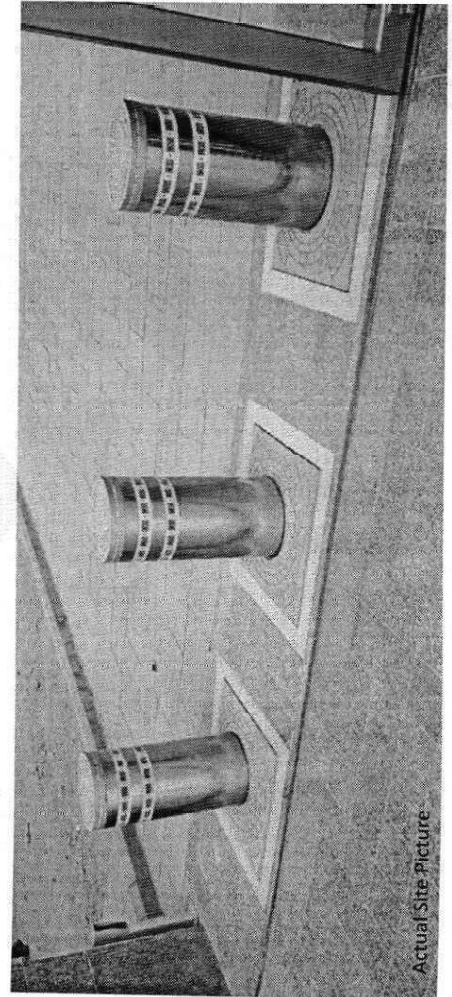
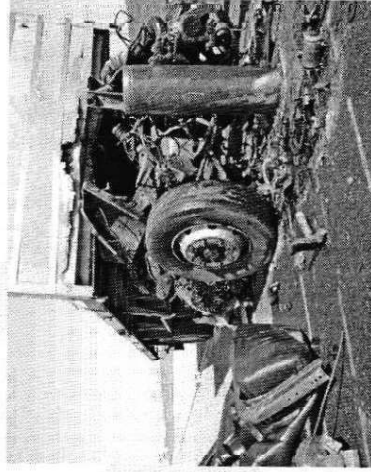


Brosis FORCE B12 retractable hydraulic bollard offer outstanding security and aesthetics. Our single FORCE B12 is able to stop vehicle of 7.2 ton travelling at the speed of 50mph (80km/hr) and meet requirements for M50: P1 rating as per ASTM F2656 (2018) standard equivalent to D/6800/88/90/2032 of BSI PAS 68 (2013) and D/6800/(N2B)/88/90:0.00 of ISO IWA 14-2 (2013).

Drainage system is provided so that accumulated dirt and water can be drained out and hence does not affect the mechanism of bollard and its working efficiency.

Special Features

- ◆ Reliable and durable.
- ◆ Hot dip galvanized body followed by anti - UV epoxy powder coating for corrosion free surface.
- ◆ Low operating & maintenance cost.
- ◆ Embedded LED lighting.
- ◆ Composite die casting anti-slip Aluminum moving cylinder top & load bearing plate.
- ◆ Operating in harsh environments.
- ◆ Readily available configuration in control unit for integration will all access control system.
- ◆ Manual operation in case of power breakdown.
- ◆ Use environmentally friendly hydraulic oil.



Actual Site Picture



Anti-Ram Bollards FORCE B12

Technical Specification

MODEL	FORCE B12
Anti-Ram class / Crash rating	Designed to stop 7.5 ton loaded truck @ 80 Km/h known as K12 (M50 - P1)
Drive unit (External)	B12 - H (Hydraulic), B12 - P (Pneumatic)
Rising height	700 - 1200 mm
Diameter of bollard	270 - 354 mm
Material	Superior quality high tensile structural steel
Cylinder thickness	25 mm
Cylinder top plate	Anti-slip die cast aluminum
Input Voltage	440 VAC $\pm$ 10%, 50/60 Hz, 3 phase or 220 VAC $\pm$ 10%, 50/60 Hz, 1 phase
Rising time	4-6 sec, emergency 1.5 sec
Lowering time	3-4 sec, emergency 1 sec
Oil tank	100 lt. - 350 lt. (depend on number of bollards to operate at a time)
Protection class	IP 67
Finish	Anti-UV epoxy powder coating or SS chrome finish
Blocking in raised position	Hydraulic lock/Pneumatic lock
Breakout resistance	16,80,000 J
Duty cycle	100%
Operating temperatures	-20°C to +60°C
MTBF	70,00,000
SAFETY	
Safety against vehicles	Loop detector
Safety against humans	Photo sensors
Control unit	PLC/microprocessor based control unit with readily available integration with all access control devices
Visual & Sound	Embedded LED lights on the top of aluminum head & buzzer for operational alert with Red/Yellow/Redium reflective strips
Driver alert	Traffic light (Red/Green) - optional
Smart integration	Can be integrated with TOTAL BA
POWER FAILURE	
Power failure	Manual hand pump
Manual	Mechanical manual release device/Pressure relief valve
Accumulator (optional)	Accumulator for 04 cycles up/down operations in case of emergency

Dimensions For Reference

All dimensions are in MM

