optima®

ÜLGEN
INDUSTRIAL GROUP

www.optima-engineering.com

optima®

Content

Optima® started manufacturing operations to provide high-quality products and services with state-of-the-art engineering applications in the physical security sector. **Optima**® has been one of the pioneers in finding specific solutions for its customers and exporting products all over the world. We blend the utmost powerful knowledge with 20+ years of experience and focus on continuous success.

About Company

Optima® Engineering Inc. is mainly dealing with manufacturing, engineering, and R&D business since 2000.

Group Companies

- Ulgen Industrial Systems INC.,
- Optima® Engineering INC.,
- Feridun Ulgen Factory for Hydraulic Gates & Barriers, Riyadh K.S.A
- Autogate Limited S.R.L., E.U.
- Sigma Industrial Systems Ltd., U.K.

Ulgen Industrial Systems Inc. is mainly dealing with sales, marketing, finance, logistics, foreign trade, after-sales and maintenance services, systems integration of security & building automation systems.

KSA Factory, Feridun Ulgen Factory for Hydraulic Gates & Barriers is established mainly to supply faster service, spare parts, and sales for all Gulf countries. The factory can produce high-volume products to produce more cost-effective products. With three technical support teams in the field, the factory can provide emergency response.

Autogate Limited S.R.L was established in the EU (Romania) as a facility to supply Optima® quality and products through Europe. Optima® is also ready to serve all customers in both European countries and worldwide with EUR-1 certification

Sigma Industrial System Ltd. is a UK-based company located in London. The main mission of the company is to provide the best services worldwide including exports, engineering feasibility studies, project execution, and testing&comissioning.

Exported Countries

As of 15.04.2022..

Africa

- Algeria
- Burkina Faso
- Democratic Republic of the Congo
- Djibouti
- Egypt
- Ethiopia
- Gabon
- Ghana
- Israel
- Kenya
- Libya
- Mauritius
- Morocco
- Nigeria
- Republic of Côte d'Ivoire
- Senegal
- Sudan
- Somalia
- Tanzania

Europe

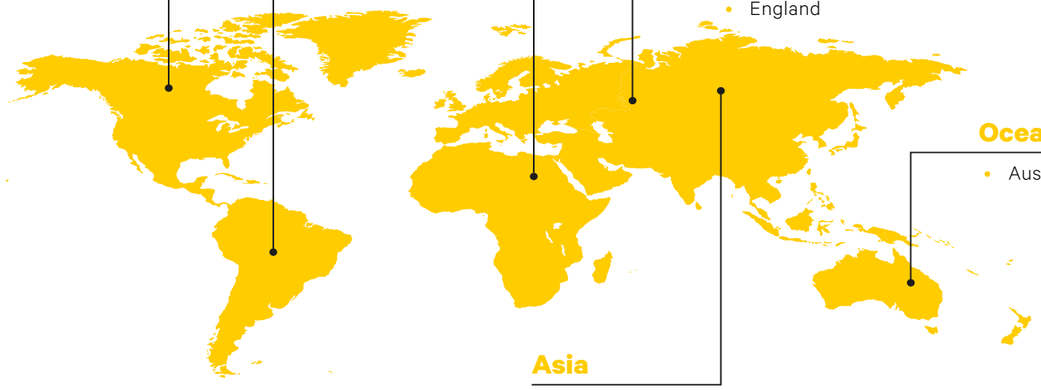
- Latvia
- Lithuania
- Poland
- Belgium
- Ukraine
- Republic of Albania
- Serbia
- Italy
- Kosovo
- Bulgaria
- Cyprus
- Czech Rep.
- Spain
- Germany
- Romania
- Portugal
- England

South America

- Chile

North America

- Dominica Republic
- Mexico
- Honduras
- USA
- Panama



Oceania

- Australia

Asia

- Azerbaijan
- Afghanistan
- Brunei
- Bangladesh
- Bahrain
- Georgia
- India
- Indonesia
- Iran
- Iraq
- Japan
- Jordan
- Kazakhstan
- Kuwait
- Lebanon
- Nepal
- Oman
- Pakistan
- Philippines
- Russia
- Syria
- South Korea
- Singapore
- Saudi Arabia
- Turkmenistan
- UAE
- Vietnam

“

and will continue **increasing day by day**

Business Sectors

- Oil&Gas
- Military / Police Bases
- Government Buildings
- Embassies
- Borders
- Airports / Seaports
- Hotels / Malls
- Stadiums
- Palaces
- Commercial Buildings

18+successful CRASH TESTS

Çarpma Test videolarımızı izlemek için QR okutunuz.

optima®

ROAD BLOCKERS

ROAD BLOCKERS

Road Blockers

OPTIMA® ROAD BLOCKERS

Optima® Road Blockers are designed especially for entrance points which have a threat of vehicle attack or for the ones that have high security requirements. If there is a threat of vehicle attack in addition to the control of vehicle access in high security applications, road blockers are the unique solution and the most secure systems.

The range also includes road blockers for varying terrains and environments, including shallow foundations and surface mounting.

With the help of Optima® PLC, raise / lower function can be achieved by every kind of card readers, biometric readers like fingerprint or hand shape, radio control, on / off key switch, etc. Besides, safety accessories like inductive loop detectors, flashing lights or red / green traffic lights can be integrated into the system very easily.

Most of the Optima® Road Blockers are crashed tested and certified according to International Standards.

SYSTEM FEATURES IN ROAD BLOCKERS

Types	Embedded, Shallow, Surface Mount, Mobile
Crash Tested Models	HRR-HS-CT / HRR-HS-4100 / HRR- CT- SHM
Height Range (mm)	500-1250
Width Range (mm)	2000-6000
Standard Color	RAL1028 traffic yellow / RAL9005 black (can be customized)
Load Resistance	50 tons per axle
Structure	Heavy duty
Top Plate	Plain or checkered (optional), painted yellow with black stripes
Hinges	Special design hardened steel
Electrical Requirements	380 V, three phase, 50-60 Hz (or 220 V / 415 V etc., three phase, 50-60 Hz optional by a transformer)
Power Failure	Manual hand pump, Hydraulic accumulator, DC motor and batteries, UPS
Standard Speed	3-5 seconds, in emergency 1.5 seconds (optional)
Desktop Keyboard	Raise, lower, emergency stop, key operated, keyboard in use light indicator
Environmental Conditions	-15 °C and +65 °C, %95 non-condensing

ACCESSORIES

Dual vehicle safety loop detector
Traffic Light: Red / green LED, 200 mm diameter, Steel post 2 m height
Submersible drainage pump
Uninterrupted power supply (UPS)
DC motor and pump with dry batteries
Hydraulic accumulator
Hot-dip galvanizing
SCADA or any control system: It is possible to change and check the position of road blocker with a touch screen control panel, mobile devices (iOS-Android), computer, etc.

Patent
2014 / 13338

OPTIMA® | HRR-HS-CT
HYDRAULIC ROAD BLOCKER (ZERO PENETRATION)

Hydraulic, Embedded design, Actual PAS68 crash-tested (Zero Penetration), Width: 1500-6000 mm,
Height: 1100 mm

OPTIMA® | HRR-HS-4100
HYDRAULIC ROAD BLOCKER

Hydraulic, Embedded design, Actual PAS68 crash-tested(P2 rated), Width: 1500-6000 mm,
Height: 1000 mm

OPTIMA® | HRR-CT-SHM
SHALLOW MOUNT HYDRAULIC ROAD BLOCKER
(ZERO PENETRATION)

Hydraulic, Shallow design, Actual PAS68 crash-tested (Zero Penetration), Width: 1500-6000 mm,
Height: 1250 mm

OPTIMA® | HRR-SHM
SHALLOW MOUNT HYDRAULIC ROAD BLOCKER

Hydraulic, Shallow design, Heavy-duty design with strong structure, Width: 1500-6000 mm,
Height: 400-1250 mm

Road Blockers

OPTIMA® | HRR-HS
HYDRAULIC ROAD BLOCKER

Hydraulic, Embedded design, Heavy-duty design with strong structure, Width: 1500-6000 mm, Height: 400-1250 mm

OPTIMA® | PRR
PNEUMATIC ROAD BLOCKER

Pneumatic, Embedded design, Heavy-duty design with strong structure, Width: 1500-6000 mm, Height: 400-1100 mm

Road Blockers

OPTIMA® | EMR-HS
ELECTRO-MECHANICAL ROAD BLOCKERS

Electromechanical, Embedded design, Heavy-duty design with strong structure, Width: 1500-6000 mm, Height: 400-1100 mm

OPTIMA® | HRR-TLS
SHALLOW MOUNT TELESCOPIC ROAD BLOCKER

Hydraulic, Telescopic shallow design, Heavy-duty design with strong structure, Width: 1500-6000 mm, Height: 350-800 mm

Road Blockers

OPTIMA® | MHRB
MOBILE HYDRAULIC ROAD BLOCKER

Hydraulic, Mobile Design, Heavy-duty design with strong structure, Width 2500-5200 mm,
Height: 400-1000 mm

Road Blockers

OPTIMA® | HRR-SM
SURFACE MOUNT HYDRAULIC ROAD BLOCKER

Hydraulic, Surface Mount Design, Heavy-duty design with strong structure, Width: 2500-5200 mm,
Height: 400-1000 mm

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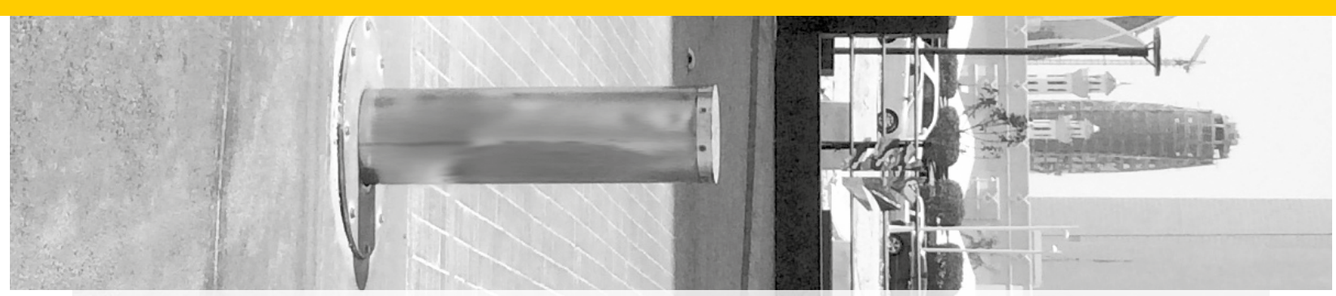
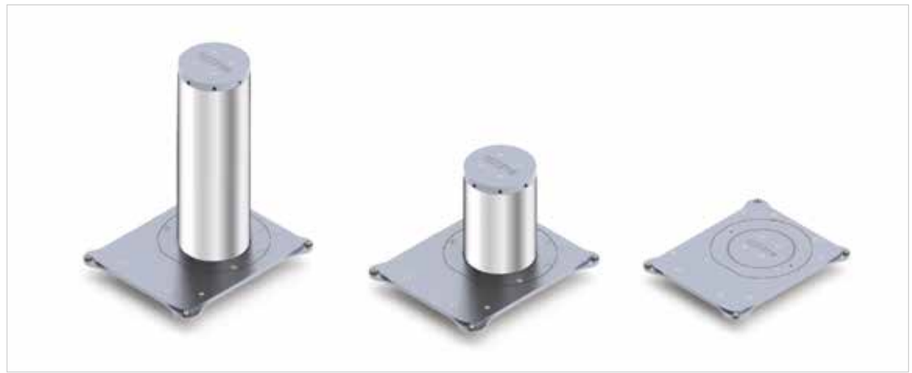


BOLLARDS

BOLLARDS

Bollards



OPTIMA® BOLLARDS

Optima® bollards are designed for high security vehicle entrances, military, industrial, governmental and commercial buildings or streets which are closed to vehicle traffic between certain hours of the day.

Most of the Optima® bollards are crashed tested and certified according to International Standards.

With the help of PLC controlled electronics, raise / lower function can be achieved by every kind of card readers, biometric readers like fingerprint or hand shape, radio control, on / off key switch etc. Besides, safety accessories like photocells, inductive loop detectors, flashing lights or red / green lights can be integrated to the system.

SYSTEM FEATURES IN BOLLARDS

Types	Hydraulic, Pneumatic, Fixed ,Removable, Semi Automatic
Crash Tested Models	HRB-HS-CT / HRB Protector / FRB-01 Crash Tested / FXB-CT / FXB-CT-SHM
Height Range (mm)	500-1250
Diameter Range (mm)	100-355
Bollard Finish	Stainless steel sleeve or epoxy painted
Load Resistance	50 tons per axle
Structure	Heavy duty / Residential
Electrical Requirements (for Hydraulic models)	380 V, three phase, 50-60 Hz (or 220 V / 415 V etc., three phase, 50-60 Hz optional by a transformer)
Power Failure (for Hydraulic models)	Manual hand pump, Hydraulic accumulator, DC motor and batteries, UPS
Standard Speed (for Hydraulic models)	3-5 seconds, in emergency 1.5-2 seconds (optional)
Desktop Keyboard	Raise, lower, emergency stop, key operated, keyboard in use light indicator
Environmental Conditions	-15 °C and +65 °C, %95 non-condensing

ACCESSORIES

Dual vehicle safety loop detector
2 meter height photocell mounting pedestal for high truck detection (required for industrial sites)
Traffic Light: Red / green LED, 200 mm diameter, Steel post 2 m height
Submersible drainage pump
Flashing light on top of bollard
Decorative top flanges
Uninterrupted power supply (UPS)
DC motor and pump with dry batteries
Hydraulic accumulator
SCADA or any control system: It is possible to change and check the position of bollard with a touch screen control panel, mobile devices (iOS-Android), computer, etc.

OPTIMA® | FRB-01
FIZED BOLLARD

Fixed, Embedded design, Actual PAS68 crash-tested (P2 rated), Diameter: 320 mm, Height: 900 mm

OPTIMA® | FXB-CT-SHM
SHALLOW MOUNT FIX BOLLARD
(ZERO PENETRATION)

Fixed, Shallow design, Actual PAS68 crash-tested (Zero Penetration), Diameter 355 mm, Height: 1100 mm

OPTIMA® | FXB-CT
FIXED BOLLARD

Fixed, Embedded design, Actual PAS68 crash-tested (Zero Penetration), Diameter: 320 mm, Height: 1100 mm

OPTIMA® | FXB-CT-R5
FIXED BOLLARD

Fixed, Shallow design, Actual PAS68 crash-tested (P2 rated), Diameter: 355 mm, Height: 900 mm

Patent
2014 / 13340

OPTIMA® | HRB-HS-CT
RETRACTABLE BOLLARD

Hydraulic, Actual PAS68 crash tested (P2 rated), Diameter: 355 mm, Height: 1100 mm

Patent
2017 / 04667

OPTIMA® | HRB-PROTECTOR
HYDRAULIC BOLLARD

Hydraulic, Actual PAS68 crash tested (Zero Penetration), Diameter: 355 mm, Height: 1250 mm

Patent
2017 / 04667

OPTIMA® | HRB-HS
HYDRAULIC BOLLARDS

Hydraulic, Heavy-duty design with strong structure, Diameter: 168-355 mm, Height: 400-1250 mm

Patent
2017 / 04667

OPTIMA® | RAB-800
BUILT-IN HYDRAULIC BOLLARD

Built-In Hydraulic, Heavy-duty design with strong structure, Diameter: 168-355 mm, Height: 400-1250 mm

Bollards

OPTIMA® | RMB
REMOVABLE BOLLARD

Removable can be locked with the help of a key, Diameter: 150-273 mm, Height: 700-900 mm

OPTIMA® | FXB
FIXED BOLLARD

Fixed, designed for closing the gaps permanently, Diameter: 100-355 mm, Height: 500-1250 mm

OPTIMA® | RMB-SM
SURFACE MOUNT
REMOVABLE BOLLARD

Removable, surface mount, can be locked with the help of a key, Diameter: 150-273 mm, Height: 700-900 mm

OPTIMA® | FXB-SM
SURFACE MOUNT FIXED BOLLARD

Fixed, surface mount designed for closing the gaps permanently, Diameter: 100-273 mm, Height: 500-1250 mm

Bollards

OPTIMA® | PRB
PNEUMATIC BOLLARD

Pneumatic, Heavy-duty design with strong structure, Diameter 168-355 mm, Height: 400-1000 mm

OPTIMA® | SAB-100
SEMI AUTOMATIC BOLLARD

Semi-automatic, can be locked with the help of a key Diameter: 215 mm, Height: 585 mm

Patent
2015 / 07993

OPTIMA® | AVF CRASH TESTED ANTI-VEHICLE FENCING SYSTEMS

Fixed Fence, Chained, 12 meters modules, actual PAS68 crash tested

optima®

BARRIERS

Barriers

OPTIMA® BARRIERS

Barrier is designed for high flow traffics. Compare to the standard parking barriers, Optima® Barriers are suitable for harsh environments and intensive usage. With the help of a strong electric motor, the barrier can resist the hottest environmental conditions even it is used continuously.

Another strong advantage of Optima® barriers is a smooth operation by frequency controller which supplies a slow start / slow stop operation. This type of operation increases the mechanism usage of life significantly.

Some of the Optima® barriers are crashed tested and certified according to International Standards. Crash-tested barriers are designed especially for entrances where there is a threat of suicide vehicle attack, or for the entrances that have high-security requirements. If there is a threat of vehicle attack in addition to the control of vehicle access in high security applications, hydraulic drop arm barriers are one of the best and most secure solutions. Even though the attack is from high tonnage vehicles with high speeds, it is not possible for the vehicle to keep on moving forward anymore beyond the arm of the barrier.

SYSTEM FEATURES IN BARRIERS

Types	Hydraulic, Electromechanical, Manual
Crash Tested Models	HDAB-CT / MAB-CT
Arm Length (mm)	2000-8000
Arm Material	Aluminum with a special elliptical like cross-section design / Carbon steel
Structure	Heavy duty / Residential
Time Delay	Between 5 / 10 / 15 seconds
Electrical Requirements	220 V, single phase, 50-60 Hz (for electromechanical barriers) 380 V, three phase, 50-60 Hz (for hydraulic barriers)
Power Failure	Release gear by allen key (for electromechanical barriers) Hand pump (for hydraulic barriers)
Environmental Conditions	-15 °C and +65 °C, %95 non-condensing

ACCESSORIES

Dual vehicle safety loop detector
Traffic Light: Red / green LED, 200 mm diameter, Steel post 2 m height
Flashing Light (flashes when the arm is in motion)
Push button box
Radio receiver & antenna
Radio transmitter
Safety photocell & Photocell mounting pedestal with arm holder
Pendulum arm support
Articulated design for aluminum arms
Pneumatic edge safety sensor
Card reader mounting pedestal in front of the barrier with floor mounting flange, Gooseneck design with sunshade
Aluminum barrier skirt
Stop sign in the middle of barrier arm
Uninterrupted power supply (UPS)
DC motor and pump with dry batteries (for hydraulic barriers only)
Hot-dip galvanizing (for carbon steel models only)
SCADA or any control system: It is possible to change and check the position of barrier with a touch screen control panel, mobile devices (I / Os-Android), computer, etc.

Patent
2019 / 06917

OPTIMA® | B SERIES
CHALLENGER ELECTROMECHANICAL ARM BARRIER

Electromechanical, designed for harsh environment and heavy-use, galvanized cabinet with plastic cap, aluminum elliptical arm

Patent
2019 / 06917

OPTIMA®
CHALLENGER QUICK ELECTROMECHANICAL ARM BARRIER

Electromechanical, designed for harsh environment and heavy-use, galvanized cabinet with plastic cap, aluminum elliptical arm

Patent
2019 / 06917

OPTIMA® | CTY400 / CTY600
ELECTROMECHANICAL ARM BARRIER

Electromechanical, designed for residential usage, galvanized cabinet with plastic cap, aluminum elliptical arm

Patent
2019 / 06917

OPTIMA® CITY-ART
ELECTROMECHANICAL ARTICULATED ARM BARRIER

Same features as CITY series barrier with added articulated kit

Patent
2019 / 06917

OPTIMA® CHALLENGER-ART
ELECTROMECHANICAL ARTICULATED ARM BARRIER

Same features as Challanger B series barrier with added articulated kit

OPTIMA® | MAB-CT
MANUAL DROP ARM BARRIER

Manual, smooth operation, Actual PAS68 crash tested, easy installation, width: 3000-6000 mm

OPTIMA® | MDAB
MANUAL DROP ARM BARRIER

Manual, smooth operation, heavy-duty with strong structure, easy installation, width: 3000-6000 mm

OPTIMA® | HDAB-CT
HYDRAULIC DROP ARM BARRIER (ZERO PENETRATION)

Hydraulic, double piston support, Actual PAS68 crash tested, easy installation, width: 3000-7500 mm

OPTIMA® | HDAB
HYDRAULIC DROP ARM BARRIER

Hydraulic, heavy-duty with strong structure, easy installation, width: 3000-6000 mm

Patent
2019 / 21571

OPTIMA® | VLB
VERTICAL LIFT BARRIER SERIES

Electromechanical, vertical movement, heavy-duty with strong structure, easy installation, width: 3000-6000 mm

OPTIMA® | MB
MANUAL ARM BARRIER

Manual, smooth operation, counterweight design, designed for only control purpose (no crash resistance)

OPTIMA® | HAB-CR
HYDRAULIC ARM BARRIER K4

Hydraulic, heavy-duty with strong structure, K4 rated design, easy installation, width: 3000-6000 mm

OPTIMA® | HAB
HYDRAULIC ARM BARRIER

Hydraulic, designed for harsh windy environment, arm is aluminum (circular design), width: 2000-8000 mm

Barriers

OPTIMA® | PMS 100
MANUAL PERSONAL
PARKING BARRIER

Mechanical, can be locked by a key, material is made of steel for long resistance

OPTIMA® | PAS100
AUTOMATIC PERSONAL
PARKING BARRIER

Electromechanical by 2 option: by battery or by direct power supply, material is made of steel for long resistance

OPTIMA® | CHB CHAIN-BARRIER

Electromechanical, suitable for long parking areas, can close the gaps up to 16 m, 3rd party devices can be integrated

TURNSTILES

TURNSTILES

Turnstiles

OPTIMA® TURNSTILES

Optima® turnstiles / speed gates provide aesthetic and effective control of entry or exit at kinds of toll collection systems like train / metro stations, and access control for commercial centers, stadiums, schools, government, and private sector buildings, etc.

With the help of controlled electronics, a raise / lower function can be achieved by every kind of card reader, a biometric reader like fingerprint or hand shape, radio control, on / off key switch, etc.

Full Height Turnstiles are the unique solution for unmanned entrances with a high level of security requirements. Only one person is permitted to pass on each turn of the turnstile. This is achieved by three / four groups of wings, standing 120/90 degrees apart on the square/triangular cross sectioned rotor beam.

Advanced microelectronics; fine mechanics processed on CNC machines; contactless position sensing technology; hydraulic damper with adjustable damping ratio; self-centering mechanism design and rust preventing precautions are some of the main factors resulting in full height turnstiles' trouble-free, long operation life.

SYSTEM FEATURES IN TURNSTILES

Types	Tripod / Speed Gates / Full Height / Swing

Speed Gates	
Models	HG100 / C100 / SSG100 / DA100
Material	304 Stainless Steel (316 SS optional)
Operation	Electromechanical
Electrical Requirements	220 V, single phase, 50-60 Hz
Power Failure	Fail safe

Tripod Turnstiles	
Models	V100 / V200 / V300 / V400
Material	304 Stainless Steel (316 SS optional)
Operation	Electromechanical / Manual
Electrical Requirements	220 V, single phase, 50-60 Hz
Power Failure	Fail safe / Fail secure

Tripod Turnstiles	
Models	F100 / F100D / F100C / F100G / F100-SDR
Material	304 Stainless Steel (316 SS optional)
Operation	Electromechanical / Manual
Electrical Requirements	220 V, single phase, 50-60 Hz
Power Failure	Fail safe / Fail secure

Swing Turnstiles	
Models	RAG100 / MSW
Material	304 Stainless Steel (316 SS optional)
Operation	Electromechanical / Manual
Electrical Requirements	220 V, single phase, 50-60 Hz
Power Failure	Fail safe

Turnstiles

OPTIMA® | C100S
SWING SPEEDLANE
(SHORT FLAP)

Electromechanical, motor-driven, swing movement, tempered glass wings (short), stainless steel body, handicapped option available

OPTIMA® | SSG100S
SLIDING SPEED GATE
(SHORT FLAP)

Electromechanical, motor driven, sliding movement, tempered glass wings (short), stainless steel body

OPTIMA® | C100L
SWING SPEEDLANE
(LONG FLAP)

Electromechanical, motor-driven, swing movement, tempered glass wings (long), stainless steel body, handicapped option available

OPTIMA® | SSG100L
SLIDING SPEED GATE
(LONG FLAP)

Electromechanical, motor driven, sliding movement, tempered glass wings (long), stainless steel body

Turnstiles

OPTIMA® | HG100
HIDDEN SPEED GATE

Electromechanical, motor driven, sliding movement, tempered glass wings, stainless steel body, handicapped option available

OPTIMA® | DAT100
DROP ARM TURNSTILE

Electromechanical, motor-driven, stainless steel circular arms, stainless steel body

OPTIMA® | V400
TRIPOD TURNSTILE

Electromechanical, selonoid mechanism, stainless steel tripod arms, completely closed stainless steel body, granite on top.

OPTIMA® | V300
TRIPOD TURNSTILE

Electromechanical, selonoid mechanism, stainless steel tripod arms, completely closed stainless steel body

Turnstiles

OPTIMA® | V200
TRIPOD TURNSTILE

Electromechanical, selonoid mechanism, stainless steel tripod arms, stainless steel body

OPTIMA® | V100
TRIPOD TURNSTILE

Electromechanical, selonoid mechanism, stainless steel tripod arms, stainless steel body (designed for narrow spaces)

OPTIMA® | F100G
FULL HEIGHT TURNSTILE
(GLASS TYPE)

Electromechanical, selonoid mechanism, rotating glass arms, full height stainless steel body covered with glasses

OPTIMA® | F100-SDR
AUTOMATIC
REVOLVING DOOR

Electromechanical, motor driven, revolving glass wings, full-height aluminum body covered with glasses

Turnstiles

OPTIMA® | F100
FULL HEIGHT TURNSTILE

Electromechanical, selonoid mechanism, 90 / 120 degree arm design, full height stainless steel body (carbon steel as an option)

OPTIMA® | F100D
FULL HEIGHT TURNSTILE
(DOUBLE)

Electromechanical, selonoid mechanism, 90 / 120 degree arm design, double-sided full height stainless steel body (carbon steel as an option)

OPTIMA® | F100C
FULL HEIGHT TURNSTILE
(CAGE TYPE)

Electromechanical, selonoid mechanism, 90 / 120 degree arm design, full-height cage type stainless steel body (carbon steel as an option)

OPTIMA® | HH100
HALF HEIGHT TURNSTILE

Electromechanical, selonoid mechanism, 90 / 120 degree arm design, half-height stainless steel body (carbon steel as an option)

Turnstiles

OPTIMA® | RAG100
ROTARY AUTOMATIC SWING GATE

Electromechanical, motor-driven, swing movement, glass wings, body made of stainless steel tube

OPTIMA® | MSW
MANUAL SWING TURNSTILE

Mechanical, swing movement, stainless steel arm, body made of stainless steel tube

Turnstiles

OPTIMA® | F100DB BICYCLE TURNSTILE

Electromechanical, two sides full height stainless steel body
(one side is for pedesterians, one side is for bicycle)

optima®

GATES AND GATE OPERATORS

GATES AND GATE OPERATORS

Gates and Gate Operators

OPTIMA® GATES AND GATE OPERATORS

Optima® Gates are designed for residential, commercial, industrial, and military applications.
If there is a threat of vehicle attack in addition to the control of vehicle access in high-security applications, crash-tested sliding gates are the unique solution and the most secure system.
Most of the Optima® gates are crashed tested and certified according to International Standards. Even though the attack is from high tonnage vehicles with high speeds, the vehicle can't keep on moving because the damage is given to the vehicle with the gate's durable structure.
Optima Gate operators are designed for businesses, places such as gardens and private ownership, high traffic, commercial and industrial applications. Any kind of card readers, biometric readers, radio control, key switches, etc. can be used to start or stop the electro-hydraulic swing gate operator, with the help of PLC (Programmable Logical Control) controls.

SYSTEM FEATURES IN GATES & OPERATORS

Types of Gates	Sliding, Swing, Folding, Cantilever, Telescopic Pedestrian
Crash Tested Models	SG-CT / SG-HDCR
Height Range (mm)	1000-4000
Width Range (mm)	2000-12000
Standard Color	RAL1028 traffic yellow / RAL9005 black (can be customized)
Structure	Heavy duty
Environmental Conditions	-15 °C and +65 °C, %95 non-condensing

GATE MOTORS

Types	ESGO 4000, ESGO 600, ESGO 300, SWGO 1000, SWGO1000D
Safety	Safety photocell, Flashing Light
Electrical Requirements	220 V, Single phase, 50-60 Hz (380V, three phase optional)
Power Failure	Release gear by an Allen key
Desktop Keyboard	Raise, lower, emergency stop, key operated, keyboard in use light indicator

ACCESSORIES

Dual vehicle safety loop detector
Traffic Light: Red / green LED, 200 mm diameter, Steel post 2 m height
Radio receiver & antenna
Radio transmitter
Uninterrupted power supply (UPS)
Anti-climb wire mesh
Hot-dip galvanizing
Safety edge sensor
SCADA or any control system: It is possible to change and check the position of gate with a touch screen control panel, mobile devices (iOS-Android), computer, etc.

OPTIMA® | SG-CT
SLIDING GATE (CLOSED TO VISION) (ZERO PENETRATION)

Electromechanical, actual pas68 crash tested, closed to vision , integrated with Optima® ESGO Sliding Motor

OPTIMA® | SG-HDCR
SLIDING GATE (ZERO PENETRATION)

Electromechanical, actual pas68 crash tested, vertical steel bar design , integrated with Optima® ESGO Sliding Motor

OPTIMA® | SG SLIDING GATE

Electromechanical, strong steel structure, vertical steel bar design , integrated with Optima® ESGO Sliding Motor

OPTIMA® | CG CANTILEVERED GATE

Electromechanical, strong steel structure, vertical steel bar design, cantilevered (no rail) operation, integrated with Optima® ESGO Sliding Motor

Gates and Gate Operators

OPTIMA® | **SWG** SWING GATE

Hydraulic, strong steel structure, vertical steel bar design, swing operation with heavy-duty hinges, integrated with Optima® SWGO hydraulic operator

OPTIMA® | **FG** FOLDING GATE

Hydraulic, strong steel structure, vertical steel bar design, folding type with heavy-duty hinges, integrated with Optima® SWGO hydraulic operator

Gates and Gate Operators

OPTIMA® | **TSG** TELESCOPIC SLIDING GATE

Electromechanical, suitable for wide openings, strong steel structure, vertical steel bar design, integrated with Optima® ESGO Sliding Moto

OPTIMA® | **PSG** PEDESTRIAN SECURITY GATE

Manual, hydraulic closer as an option. Designed for subsidy sliding gate and turnstiles

Gates and Gate Operators

OPTIMA® | ESGO 4000
ELECTROMECHANICAL SLIDING GATE OPERATOR

Electromechanical, can drive the gates up to 4 tons, included accessories: flashing light, galvanized rack, push / button box, safety photocell

OPTIMA® | ESGO300
ELECTROMECHANICAL SLIDING GATE OPERATOR

Electromechanical, can drive the gates up to 300kg, included accessories: flashing light, galvanized rack, push / button box, safety photocell.

OPTIMA® | ESGO600
ELECTROMECHANICAL SLIDING GATE OPERATOR

Electromechanical, can drive the gates up to 600kg, included accessories: flashing light, galvanized rack, push / button box, safety photocell

OPTIMA® | SWGO-1000
ELECTRO-HYDRAULIC SWING GATE OPERATOR

Hydraulic, can drive the gates up to 1000kg (double wings), included accessories: flashing light, hydraulic cylinder, push / button box, safety photocell

optima®

TYRE KILLERS

TYRE KILLERS

Tyre Killers

OPTIMA® TYRE KILLERS

Optima® Tyre Killers are a part of vehicle access control systems in which a vehicle cannot enter without permission. Tyres of the unpermitted vehicle split up immediately, therefore the vehicle moves only a few more meters and is stopped. Jaws of the tyre killer move all together. The drive unit is placed to one end of the tyre killer for electro-mechanical type; it stands above the ground level and is a complete assembly with the body. In this way, both smooth transmission of motion and minimum effect of external factors are achieved.

SYSTEM FEATURES IN TYRE KILLERS

Mechanical Tyre Killers	
Types	Embedded, Surface Mount
Width (mm)	1000 mm modules
Spike Height	10 cm embedded / 6 cm surface mount
Color	RAL1028 traffic yellow / RAL9005 black
Spike Movement	Self balanced
Optional Feature	Latch down mechanism

Electromechanical Tyre Killers	
Types	Embedded / Surface Mount
Width (mm)	1000-6000
Spike Height	10 cm embedded / 6 cm surface mount
Color	RAL1028 traffic yellow / RAL9005 black
Electrical Requirements	220 V, single phase, 50-60 Hz

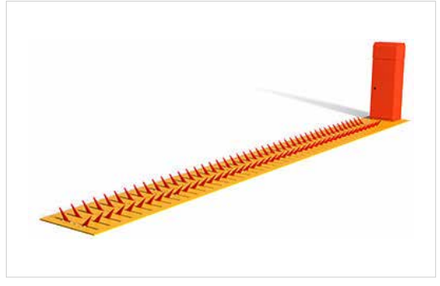
Hydraulic Tyre Killer	
Width (mm)	2000-6000
Spike Height	25-50 cm
Color	RAL1028 traffic yellow / RAL9005 black
Electrical Requirements	380 V, three phase, 50-60 Hz

ACCESSORIES
Dual vehicle safety loop detector
Traffic Light: Red / green LED, 200 mm diameter, Steel post 2 m height
Radio receiver & antenna / transmitter
Safety photocell & Photocell mounting pedestal with arm holder
Uninterrupted power supply (UPS)
DC motor and pump with dry batteries (for hydraulic tyre killer only)
SCADA or any control system: It is possible to change and check the position of road blocker with a touch screen control panel, mobile devices (I / Os-Android), computer, etc.

Tyre Killers

OPTIMA® | ETK-SM
ELECTROMECHANICAL TYRE KILLER (SURFACE MOUNT)

Electromechanical, surface mount double-sided spike design, galvanized for long time outdoor resistance



OPTIMA® | ETK
ELECTROMECHANICAL TYRE KILLER (FLUSH MOUNT)

Electromechanical, embedded double-sided spike design, galvanized for long time outdoor resistance

OPTIMA®
BTK-300SM / BTK-600SM
ELECTROMECHANICAL TYRE KILLER WITH ARM BARRIER (SURFACE MOUNT)

Electromechanical Tyre Killer with integrated arm barrier, surface mount double-sided spike design, galvanized for long time outdoor resistance

OPTIMA® | BTK-300 / BTK-600
ELECTROMECHANICAL TYRE KILLER WITH ARM BARRIER (FLUSH MOUNT)

Electromechanical Tyre Killer with integrated arm barrier, embedded double-sided spike design, galvanized for long time outdoor resistance

Tyre Killers

OPTIMA® | MTK-100SM
MECHANICAL TYRE KILLER (SURFACE MOUNT)

Manual, latch down option is available, surface mount design, galvanized for long time outdoor resistance

OPTIMA® | MTK-100
MECHANICAL TYRE KILLERS (FLUSH MOUNT)

Manual, latch down option is available, embedded structure, galvanized for long time outdoor resistance

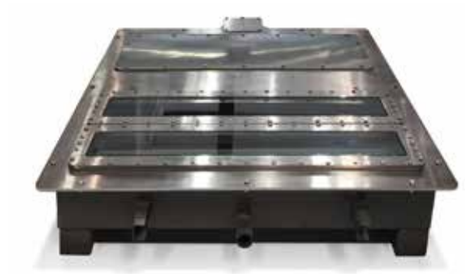
OPTIMA® | HTK
HYDRAULIC TYRE KILLER

Hydraulic, strong design with min 25cm height spike, heavy duty structure, designed for high security requirement.

VEHICLE RECOGNITION SYSTEMS

VEHICLE RECOGNITION SYSTEMS

Vehicle
Recognition Systems



OPTIMA® | VEHICLE RECOGNITION SYSTEMS

Optima® UVIS-100 Under Vehicle Inspection Systems are designed with advanced security technology to scan inspect and record the underside of all vehicles. These systems are used especially for entrances where there is a threat of suicide vehicle attack with explosives or for the entrances that have very high-security requirements like military, industrial, governmental and commercial buildings, sites, complexes etc.

Optima® Plate Recognition Systems read and store vehicle plates with undercarriage images of UVIS System which provides retrieve and search to compare with previous images.

Optima® ALPR100 is the next-generation Automatic License Plate Recognition System providing faster and more reliable solutions. The system recognizes international plate formats and styles. Customized modules are available for maximum performance for different types of license plates in several countries. It has suitable modules for highways, parking lots or facility entrances, and mobile operations. The system offers a detailed, web-based database search and an alarm system for wanted, seized, and stolen vehicles. Optima® ALPR-100 is one of the most user-friendly, fast and sophisticated plate recognition systems available.

SYSTEM FEATURES IN UNDER VEHICLE INSPECTION SYSTEMS

Types	Flush Mount ,Surface Mount
Sensor	Axis sensitivity 1.5 counts / miligauss.
Industrial Area Scan Camera	Color Camera 5Mp
Camera Lens	Focal length f=5 mm, Max. diameter ratio; F= 1:2.8 ~16

Under Vehicle Inspection Systems includes:
Loop Detector, System Processing Unit, Giga Ethernet Switch, Power Led Light, Industrial Area Scanning Camera,Web Interface Operator Concole

SYSTEM FEATURES IN AUTOMATIC LICENSE PLATE RECOGNITION SYSTEMS

Types	ALPR-100
Sensor Type-Resolution	CMOS - 1920 x 1080
Stream Format	MPEG, JPEG, H.264
Frame Rate	24FPS
Lens - Disc	5-50 Varifocal - 120 GB
Processor	O-Internal Processor Unit
Illumination	9 Pieces 850nm High Power Led.
Network Protocol	TCP / IP, UDP, HTTP, FTP, SMTP, NTP, DHCP, RTP.
Operation Temp.-Humidity:	-20°C / 60°C (-4°F / 140°F) / 95% or less (non-condensing).

SYSTEM FEATURES IN FCS DRIVER IMAGE CAPTURE CAMERA

Power Consumption	250 Watt
Shutter	Rolling Shutter
Max Image Circle	1 / 3.7”
Sensor Type - Size	CMOS - 4.2 mm x 2.4 mm
Resolution (HxV)	1920px x 180px
Pixel Size (HxV)	2.2 µm x 2.2 µm

Vehicle
Recognition Systems

OPTIMA® | UVIS-100
UNDER VEHICLE INSPECTION SYSTEM (FLUSH MOUNT)

Optima® UVIS-100 Under Vehicle Inspection System (Flush Mount) are designed with advanced security technology to scan inspect and record underside of all vehicles.

OPTIMA® | UVIS-100SM
UNDER VEHICLE INSPECTION SYSTEM (SURFACE MOUNT)

Optima® UVIS-100SM Under Vehicle Inspection System (Surface Mount) are designed with advanced security technology to scan inspect and record underside of all vehicles.

Vehicle
Recognition Systems

OPTIMA® | ALPR-100
AUTOMATIC LICENSE PLATE RECOGNITION SYSTEM

Optima® ALPR-100 is a next generation Automatic License Plate Recognition System providing faster and more reliable solutions.

OPTIMA® | FCS-100
DRIVER / VEHICLE IMAGE CAPTURE CAMERA

Optima® FCS-100 face Drivers Image Capture Camera is a subside system of Optima® ALPR-100 automatic license plate recognition.

ARMORED PRODUCTS

Armored
Products

OPTIMA® | ARMORED PRODUCTS

Optima® armored products are designed especially for places that have a high threat of terrorist attacks, suicide vehicle attacks or for the ones that have high-security requirements.

Optima® armored products are secure to attacks with machine-gun bullets; full metal jacket, pointed bullet, hardcore, armored piercer (B7 Class). Armor grade B7 is tested and certified by internationally recognized third-party laboratories.

For all our products, different size and protection class options are available. Any kind of accessories can be added according to customer requests.

SYSTEM FEATURES IN ARMORED PRODUCTS

SYSTEM FEATURES IN ARMORED GUARD HOUSE	
Balistic Protection Level	B3 / B4 / B5 / B6 / B7
Room Dimensions (cm)	236 (h) X 225 (w) X 285 (l) (can be customized)
Approximate Room Vol. (m³)	10
Optional Item	360° Shooting Tower Rotation
Tower Dimensions (cm) (if added)	133.5 (h) X 121 (w) X 128.5 (l)
Tower Vol. (m³) (if added)	1

Standard armored guard house includes:
Viewing Armored-Glass Windows
Shooting opening
Opening for passing documents in and out of the guard house
Flashing light and audible alarm on room's top outside
Outer lamps facing left, front and right sides. They can be directed from inside manually. They can be rotated 360 degrees left to right and + / - 45 degrees up and down
Base for wireless communication, Electric sockets, Cable conduits
Room is fully insulated for water, heat transfer and sound

SYSTEM FEATURES IN BULLETPROOF PEDESTRIAN SECURITY GATE	
Balistic Protection Level	B3 / B4 / B5 / B6 / B7
Direction	Single, swing gate
Operation	Manual
Appearence	Completely covered
Standard Height (mm)	2100
Standard Width (mm)	1200

SYSTEM FEATURES IN BULLETPROOF SLIDING/SWING GATE	
Balistic Protection Level	B3 / B4 / B5 / B6 / B7
Operation	Electromechanical / Hydraulic
Appearence	Completely covered
Height (mm)	1500-3500
Width (mm)	2000-10000
Motors	ESGO 4000 Sliding gate motor SWGO 1000 Swing gate motor

SYSTEM FEATURES IN BULLETPROOF WINDOW	
Frame	Bulletproof
Glass	Bulletproof
Dimensions	As per site requirements

Armored Products

OPTIMA® | BPSG
BULLETPROOF PEDESTRIAN SECURITY GATE

B3 / B7 level. Heavy duty hinges. Hydraulic closer. Completely closed but includes space to check visitors.

OPTIMA® | BPSWG
BULLETPROOF SLIDING / SWING GATE

B3 / B7 level. Swing or sliding operation. Completely closed bulletproof design. Electromechanical motor sliding gate / hydraulic system for swing gate. Manual option is available.

Armored Products

OPTIMA® | AGH-10T
ARMORED GUARD HOUSE

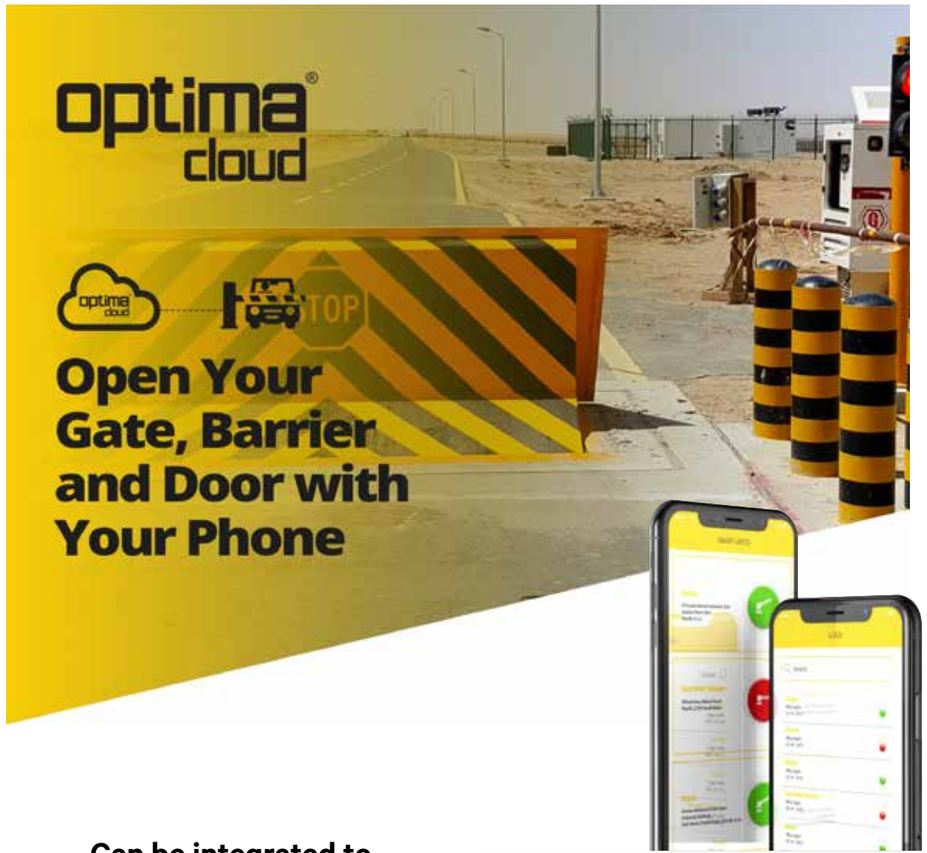
B3 / B7 level. Shooting turret can be added as an option. Spaces for posts, spaces for shooting. Electric sockets. Comfortable area for guards. Customized design is available.

OPTIMA® |
BULLETPROOF WINDOW

B3 / B / level. Glass is certified by supplier. Can be designed as per site requirements. Covered with bullet proof steel profiles.

IOT / SCADA APPLICATIONS

IOT / SCADA APPLICATIONS



Can be integrated to all automation and scurity products of any brand

Control by SMS, Calling, Internet, Web Interface and Bluetooth

You Stay Secure

High and Last Technology

System Architecture

- Go to **cloud.optima.tc**
- Sign in
- Create Site (House,Work etc.)
- Create Barrier
- Create Mobile User
- Integrate mobile user to barrier
- Download Optima App
- Write your caller mobile number on the APP
- Write your authorization code
- Control your barrier

IOT / Scada
Applications

OPTIMA® IOT / SCADA SCADA APPLICATION

Optima® SCADA (Scada Application) System is software that monitors and controls multiple commercial and industrial security equipment like road blockers, barriers, sliding gates, etc. from one central control room. The system collects information, makes necessary analyses and provides control of all equipment and monitors that information on an operator screen.

Thanks to the SCADA System, open / close or raise / lower functions can be achieved and current positions of the equipment can be monitored on line. It is possible to get number of operations, number of vehicles entered and exit, passing information for a person, unauthorized passage information and many more. Besides, an additional IP camera can be integrated to the system to enable monitoring of transition zone in a real time.

Transmission Control Protocol / Internet Protocol called TCP / IP is used in communicating data across networks. Due to this, SCADA System can be controlled from all over the world through a web server on internet.

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