SCORPION™
HIGH SECURITY SPIKE BARRIER

MARKET LEADER • ALL NEW DESIGNS • QUALITY GUARANTEE • 2 YEAR WARRANTY •

2 YEAR WARRANTY

BoomGate® Systems (PTY) LTD
Reg.No. 98/23505/07 Engineering Access Control

Boomgate Systems
SCORPION™ SPIKE BARRIER

South Africa's **BIGGEST** selling Spike Barrier

NEW PATENTED DESIGN
Patent No: 2010/07389

MARKET LEADER

EXPORTED WORLDWIDE!

APPLICATIONS:

- Parking garages, Golf or Residential Estates.
- Industrial and commercial use.

DESIGNED FOR:

- Ultra high traffic flow.
- Most severe operational conditions.

CONFIGURATIONS:

- From: 2.5m up to 6m with 500mm increment.
- Boom arms are Octagonal or Round aluminium.
- Barrier boom arms are manufactured from extruded aluminium tubing, powder coated in white with red reflective tape.
- The barrier is equipped as standard with an anti-pedestrian aluminium curtain suspended beneath the boom arm to prevent personal injury.
- Left and right hand configurations are available.
- The cabinet is an IP54 rated enclosure 3CR12 stainless steel or 2mm 304/316 brushed stainless steel.
- Cabinets are powder coated in red and white, but any other RAL colours are available on request.

Mechanism:

- Electromechanical designed for extreme conditions .
- Designed for reliability and long lasting high impact.
- Designed to disassemble in small manageable size.

Technology:

- First introduced by Boomgate Systems double drive system, using two 100% duty cycle torque motors.
- The spikes lower before the boom arm opens. This ensures a safe passage for the vehicle to pass through. Electrical interlocked.
- 3 Ultra long lasting rubber buffers are used for boom dampening to eliminate bouncing.
- Heavy duty industrial bearings.
- Adjustable counter weight springs system.

SPECIAL FEATURES ON THE SCORPION™ HIGH SECURITY SPIKE BARRIER

Spike barrier can be configured in the following ways:

Boom stays down on power failure and spikes remain up; or boom opens on power failure and spike will lower on power failure.

New patented special operating features:

Emergency trigger inputs – 2 types

- Spike will raise, boom will close while loop is detecting.
- Spike will rise even if boom arm is in the up position.

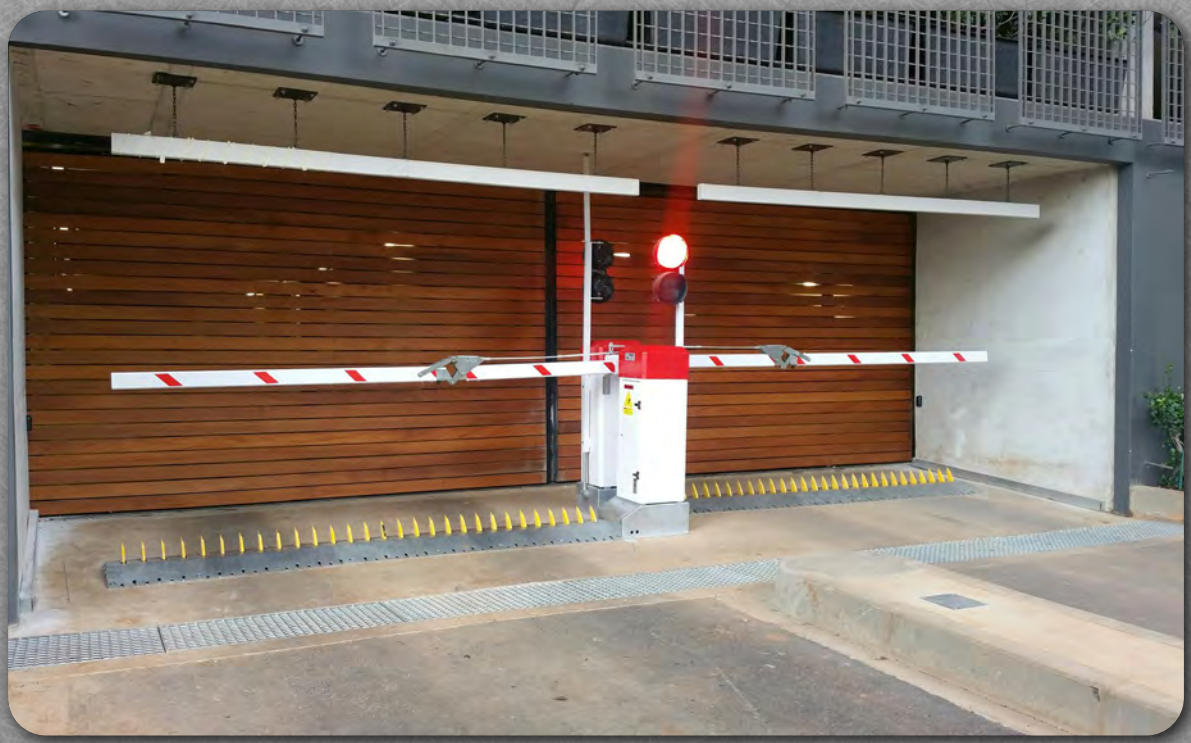
Built-in Robot Controller for Dual Direction

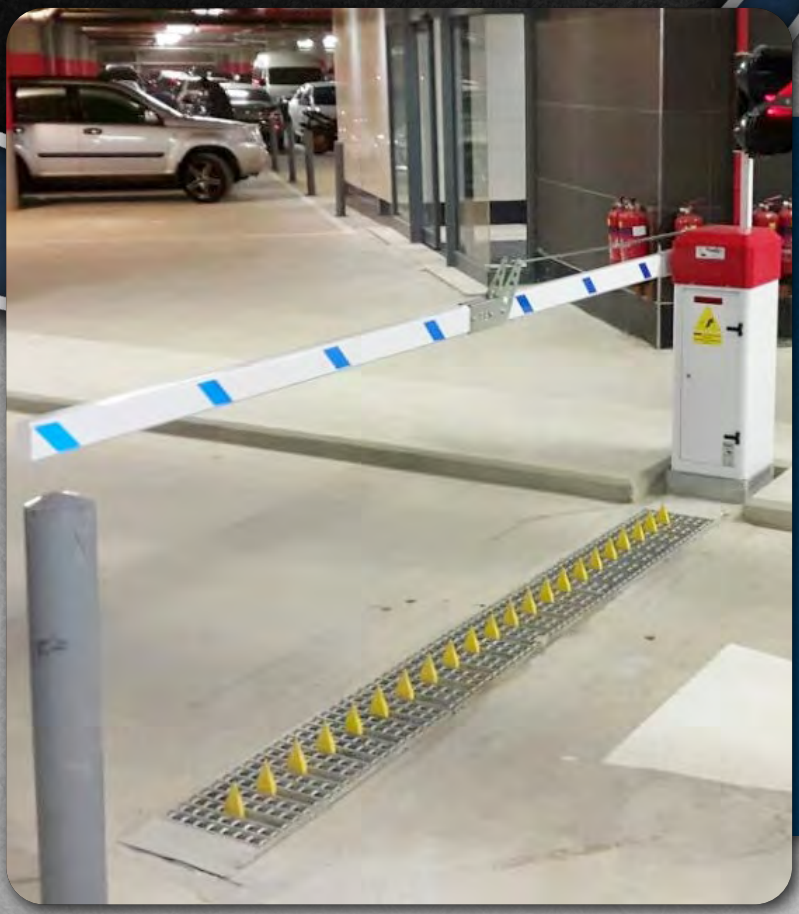
- Robot will turn green for right of way and red for opposite traffic.

Five Alarm Conditions

Alarm outputs, 1 sec n/o pulse output and a permanent close output.

- When boom arm has been knocked off the adaptor – permanent close output.
- When the barrier door is opened – permanent close output.
- When boom is held open after a vehicle has passed over the loop – pulse output.
- When boom arm is forced open – pulse output.
- When the spikes are held down – pulse output.
- This can be used to trigger an alarm. Switch a camera to focus on the spike barrier. Can also be used to raise the spikes by means of an internal triggering device or alert armed response.
- The road spike barrier modular design allows the unit to be stripped down to small manageable sizes for easy transportation and installation.





DID YOU KNOW

- Boomgate Systems supplies 138 Spike Barriers for a NPA Project. Our single biggest order for Spike Barriers in South Africa.
- Boomgate Systems Spike Barriers can handle trucks weighing up to 100 tons.
- Boomgate Systems has supplied over 3000 Spike Barriers local and international.

GENERAL FEATURES:

- New control panel allows for interlocking with other barrier to create a trap barrier.
- Spikes will stay up when boom arm is forced open.
- Spike barrier can be used for reversible lanes.
- Spike barrier will go into a lock down mode when the door is opened.
- Self-diagnostic logic controller.
- Optional Extra: High Security Lock – tamper proof door.
- Return Spring to lower spike on power failure.
- The spike barrier can be interfaced with single or multiple remote triggering devices.
- The spike barrier framework is designed to handle vehicles weighing up to 100 tons (except surface mount).
- The spikes protrude 90mm above the road surface and offer protection from both directions.
- The boom arm is joined to the boom adaptor with 2 nylon nuts, which will sheer in case of accidental collision with the boom arm and prevent damage to the barrier and boom arm.

EMERGENCY EVACUATION MODE:

- To allow emergency evacuation from the premises.
- To allow emergency vehicles into premises in case of an emergency.

TECHNICAL SPECIFICATIONS FOR SPIKE BARRIER:

Power:
220V AC ± 5%

Frequency:
50Hz

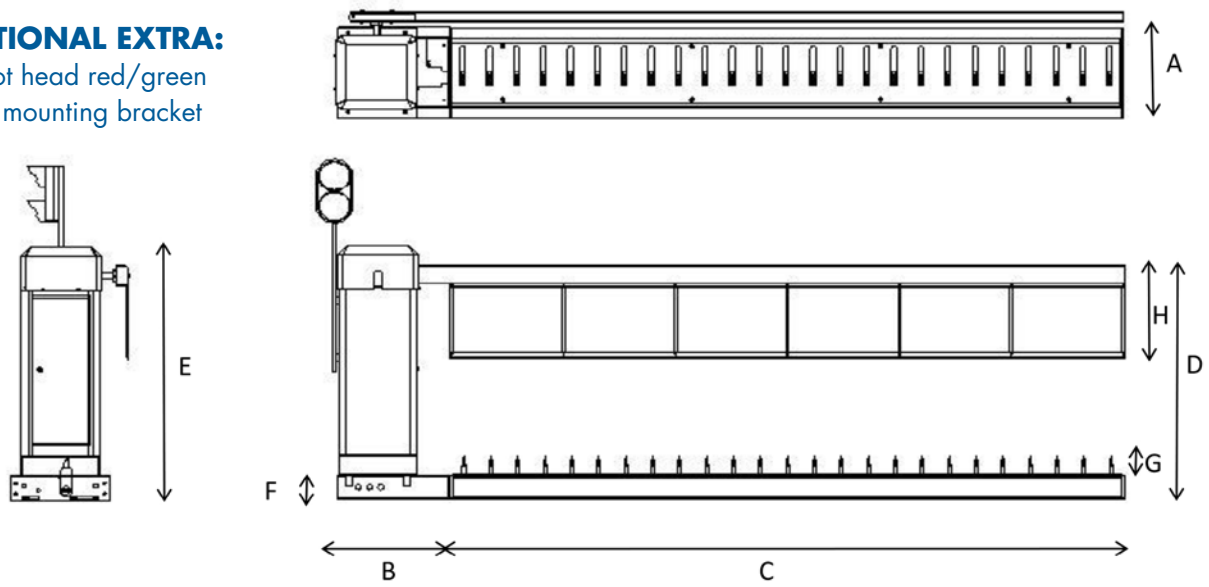
Power consumption:
160W (excluding Robots)
+75W (incandescent with Robots)

System Integration:
Can integrate with any access control by means of n/o contact that closes and opens again.

Package size:
Depending on model ordered.

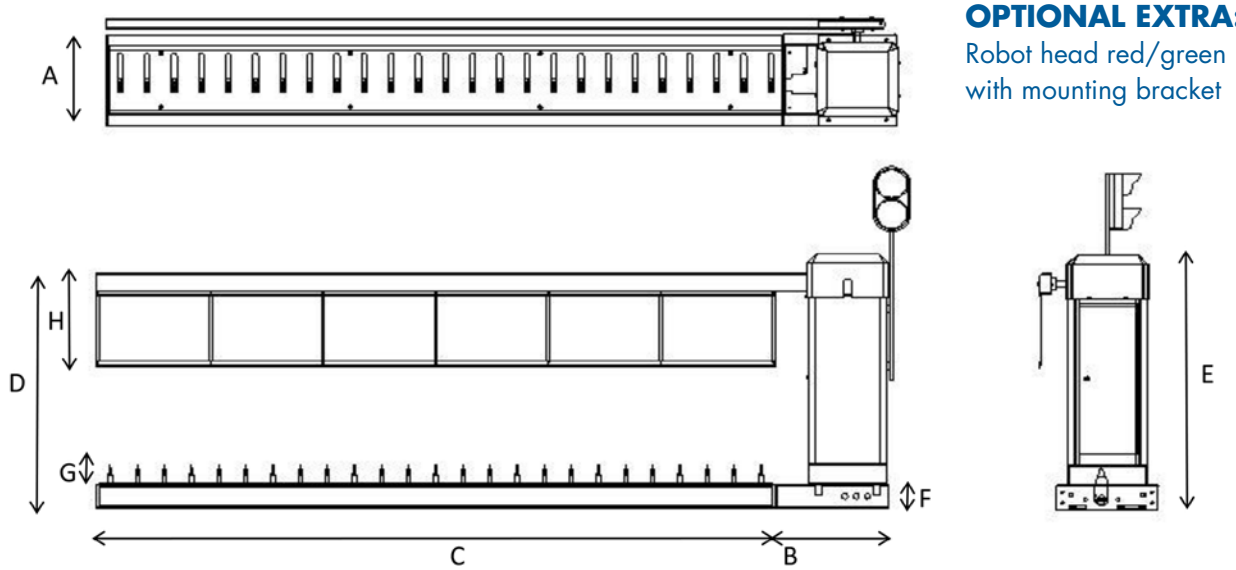
SCORPION™ FLUSH MOUNT SPIKE BARRIER - LEFT HAND

OPTIONAL EXTRA:
Robot head red/green with mounting bracket



SCORPION™ FLUSH MOUNT SPIKE BARRIER - RIGHT HAND

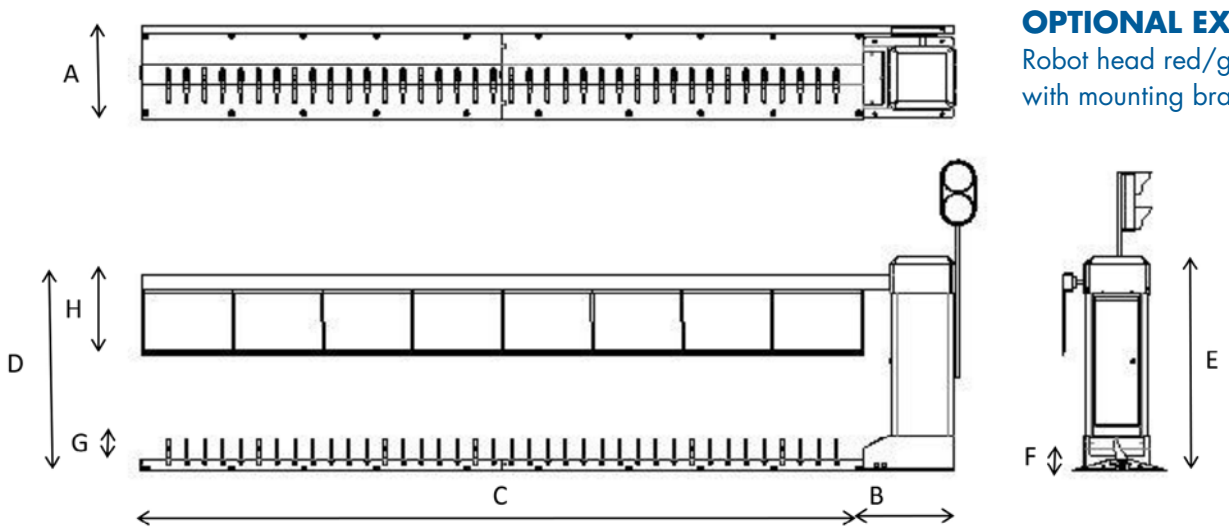
OPTIONAL EXTRA:
Robot head red/green with mounting bracket



A	Spike Tray Width	445mm	E	Spike Barrier Height	1242mm
B	Plinth Box Length	500mm	F	Spike Tray Height	120mm
C	Spike Tray Length	2500 - 6000mm	G	Spike Teeth Height above grid	90mm
D	Boom Arm Height	1147mm	H	Boom Arm with Curtain Height	590mm

Due to continuous improvement, products and design are subject to change without notice.

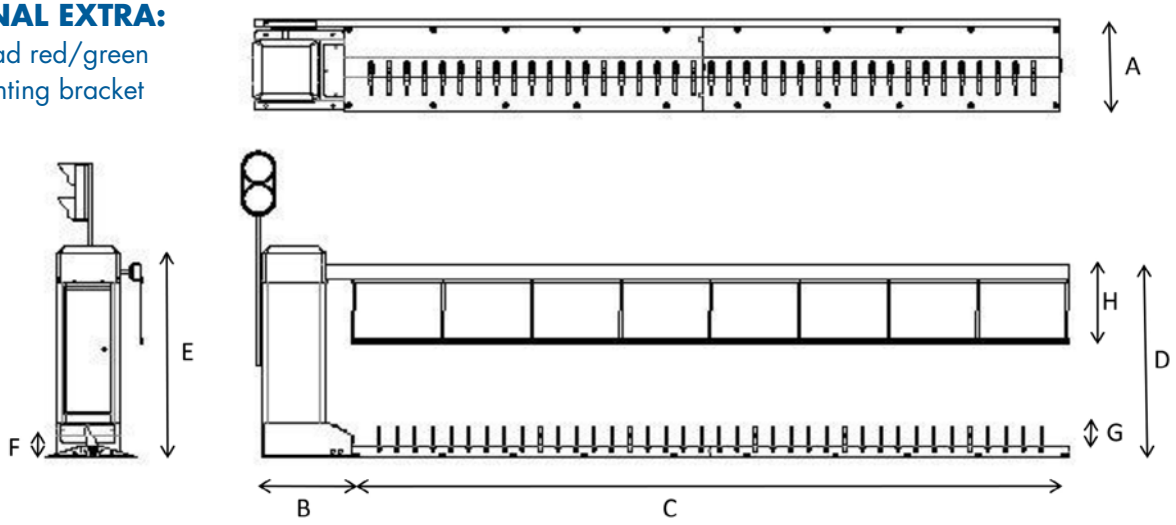
SCORPION™ SURFACE MOUNT SPIKE BARRIER - RIGHT HAND



OPTIONAL EXTRA:
Robot head red/green with mounting bracket

SCORPION™ SURFACE MOUNT SPIKE BARRIER - LEFT HAND

OPTIONAL EXTRA:
Robot head red/green with mounting bracket



SCORPION™ SURFACE MOUNT SPIKE BARRIER DIMENSIONS

A	Spike Tray Width	520mm	E	Spike Barrier Height	1242mm
B	Plinth Box Length	500mm	F	Spike Tray Height	65mm
C	Spike Tray Length	2500 - 6000mm	G	Spike Teeth Height above grid	90mm
D	Boom Arm Height	1147mm	H	Boom Arm with Curtain Height	590mm

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AVAILABLE OPTIONS:

Tray Options:
- Surface Mount / Flush Mount

Boom Arm:
- Octagonal 90mm x 48mm with red reflective UV resistant tape, c/w Boomgate Systems unique break away mechanism to save boom arm from damaging. Round 76mm with red reflective UV resistant tape.

Control Logic:
- Logic with separate loop detector PCB mother board with robot logic, interlock control, 12V output IR beam input, arming loop output for parking control systems.

Boom Arm Accessories:
- Jack-knife kit for Octagonal and Round Boom arms
- Boom Arm curtain comes standard on all Spike Barriers.
- Boom Arms come standard with breakaway mechanism.
- Boom cam kit to monitor boom arm position. Up/down.

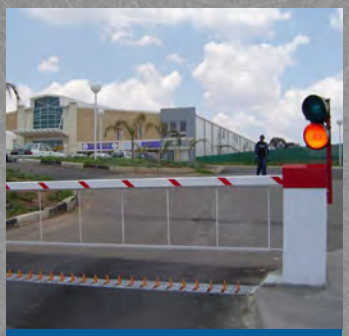
Boom Arm Mounting:
- Left hand is the standard. Right hand on request.
- Take 20 min to change on site.

Barrier Housing:
- 3CR12 stainless steel as standard powder coated, white bottom and red top.
- 304 brushed stainless steel
- 316 brushed stainless steel
- Other colours available on request.

BARRIER OPENING TIMES:

BOOM ARMS	OPEN IN SECONDS	CLOSE IN SECONDS
3M	3	2.2
4M	3	3
5M	5	5
6M	5	5

ACCESSORIES:

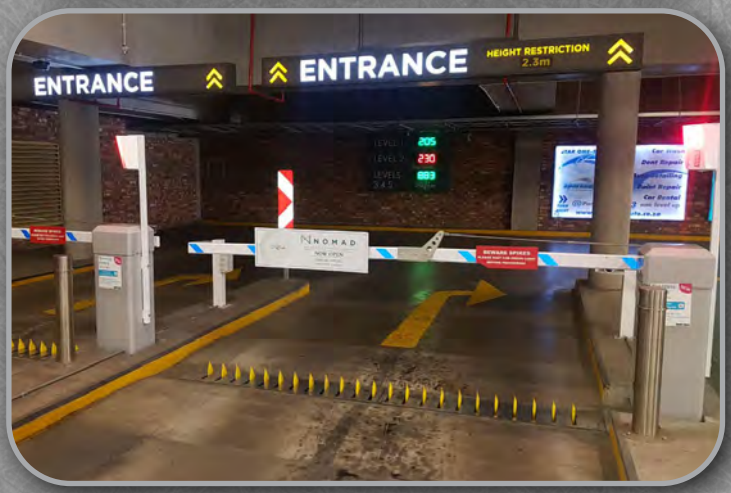

ROBOT

CARD CAPTURE UNIT

PUSH BUTTONS

GOOSENECK STAND

SURFACE MOUNT & FLUSH MOUNT SPIKE BARRIER INSTALLATIONS



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Manufacturers & Suppliers of:

• Traffic Barriers • High Security Spike Barriers • Road Blockers • Turnstiles • Security Booths • Pedestrian Barriers
• Paraplegic Gates • Speed Gates • Bollards • Goosenecks • Magnetic Locks • Metal Enclosures • Rubber Islands

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