

SCORPION™

HIGH SECURITY RAPID SPIKE BARRIER



BoomGate
Systems (PTY) LTD

Reg.No. 98/23505/07 Engineering Access Control



Boomgate Systems **SCORPION™ RAPID SPIKE BARRIER**

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



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 as standard but any size can be manufactured on request.
- Boom arms are Octagonal aluminium.
- Barrier boom arms are manufactured from extruded aluminium tubing with red reflective tape.
- Left and right hand configurations are available.
- The cabinet is an IP54 rated enclosure mild steel powder standard, or 3CR12 stainless steel or 2mm 304/316 stainless brushed stainless steel.
- Cabinets are powder coated in grey, but an 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.
- 2 Ultra long lasting rubber buffers are used for spike dampening to eliminate bouncing.
- Heavy duty industrial bearings.
- Adjustable counter-weight spring system.

SPECIAL FEATURES ON THE SCORPION™ RAPID SPIKE BARRIER



Spike barrier can be configured in the following ways:

Boom stays down on power failure and spikes remain up; or 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 (Optional):

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

Two Alarm Conditions (Optional):

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.
- 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.

SECURITY LEVEL RATING:

LOW	MEDIUM	HIGH	ULTRA SECURE
			X

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.
- 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 nylon nuts, which will shear in case of accidental collision with the boom arm and prevent damage to the barrier and the boom arm.

EMERGENCY EVACUATION MODE:

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

FEATURES:

Speed is adjustable:

1.5 second motor, speed can be adjusted from 1.5 seconds to 3 seconds.

3 second motor, speed can be adjusted from 3 seconds to 6 seconds.
Open & close speed can be different.

Auto boom arm return function:

Built-in sensor can detect when boom arm hits an obstacle and will return to the open position.

Auto slow down function:

Barrier arm will automatically slow down before it is fully closed or open.

Intelligent open close limit

Limit sensor will detect open & close position automatically.
No need to adjust it by hand.

Position memory function:

The motor can remember limit position, so the boom arm will move back to right position even if the motor is cranked manually with a handle.

Operating temperature:

Motor operates with lower working temperature.

High duty cycle:

Estimated at 3 million open and closing cycles.

TECHNICAL SPECIFICATIONS FOR SPIKE BARRIER:

Power:

220V AC \pm 5%

System Integration:

Can integrate with any access control by means of N/O contact that closes and opens again.

Power Consumption:

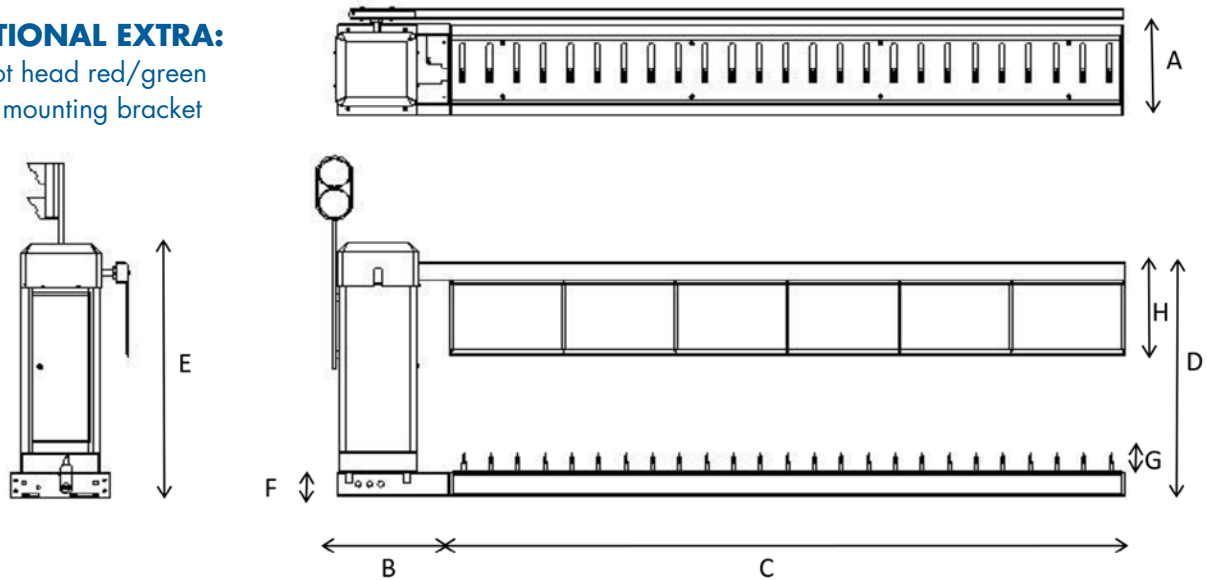
150W (excluding robots)
75W (incandescent with Robots)



SCORPION™ RAPID FLUSH MOUNT SPIKE BARRIER - LEFT HAND

OPTIONAL EXTRA:

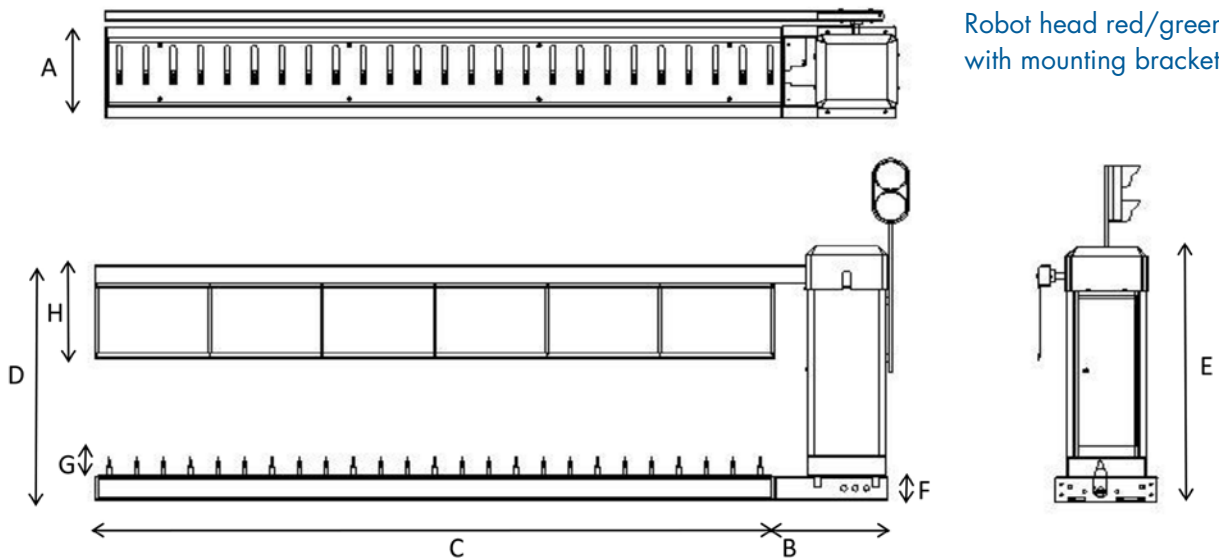
Robot head red/green
with mounting bracket



SCORPION™ RAPID FLUSH MOUNT SPIKE BARRIER - RIGHT HAND

OPTIONAL EXTRA:

Robot head red/green
with mounting bracket

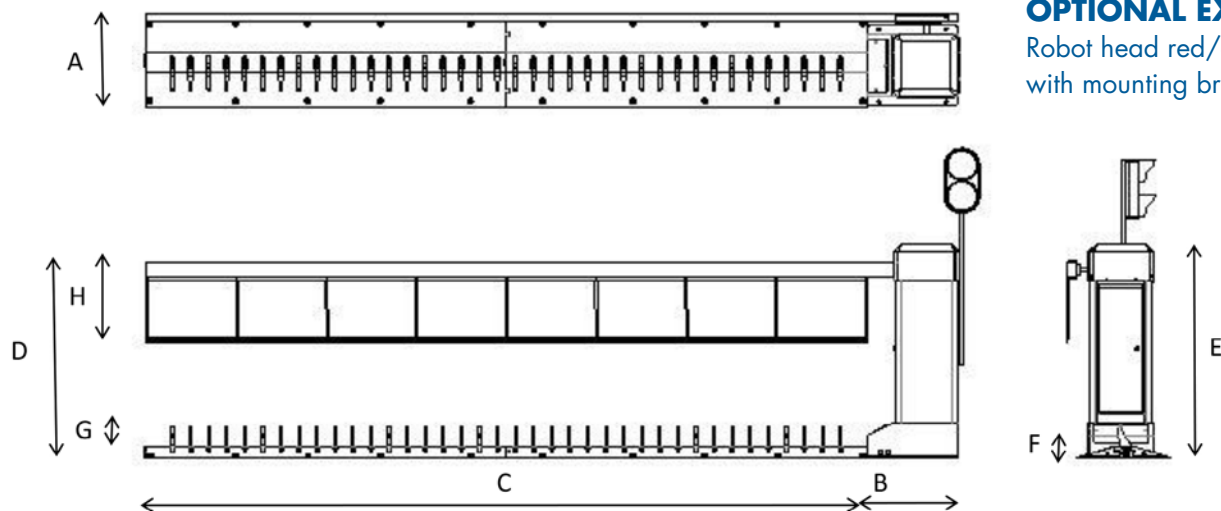


SCORPION™ RAPID FLUSH MOUNT SPIKE BARRIER DIMENSIONS

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

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

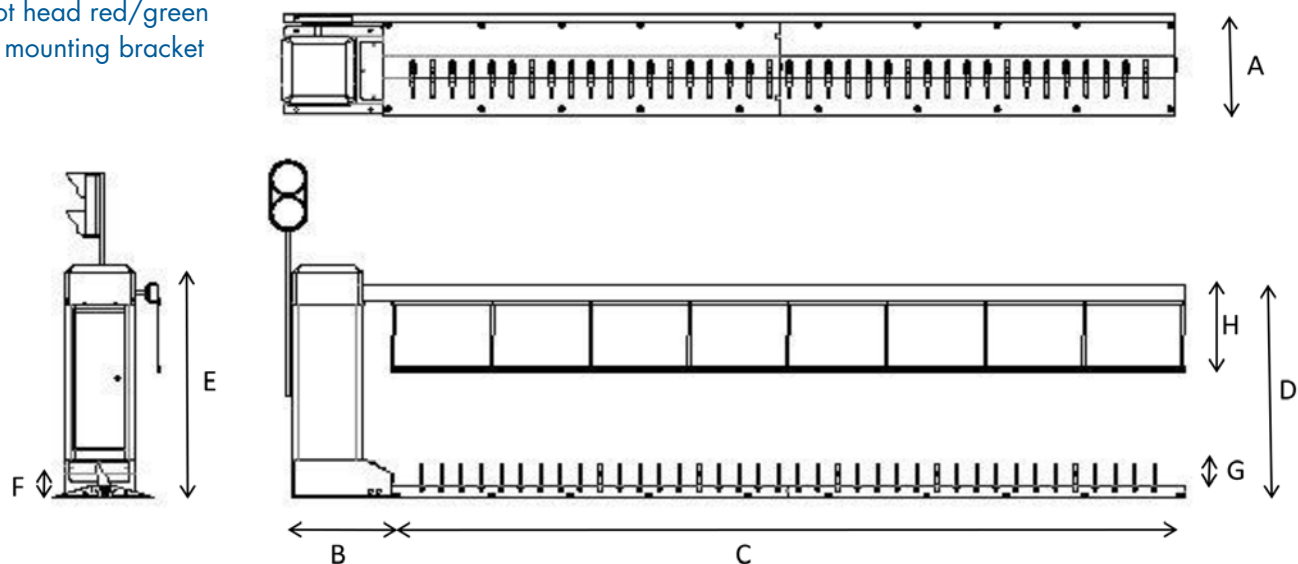
SCORPION™ RAPID SURFACE MOUNT SPIKE BARRIER - RIGHT HAND



SCORPION™ RAPID SURFACE MOUNT SPIKE BARRIER - LEFT HAND

OPTIONAL EXTRA:

Robot head red/green
with mounting bracket



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AVAILABLE OPTIONS:

Tray Options:

- Surface Mount / Flush Mount

Boom Arm:

- Octagonal 86mm x 44mm 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 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.
- 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:

- Right hand is the standard. Left hand on request.

Barrier Housing:

- Mild steel powder coated – standard
- 3CR12 stainless steel powder coated
- 304 / 316 brushed stainless steel
- Other colours available on request.

BARRIER OPENING TIMES:

BOOM ARMS	OPEN IN SECONDS	CLOSE IN SECONDS
3M	1.5	1.5
4M	2	2
5M	3	3.5
6M	5	5
SPIKE	2.5	2.5

ACCESSORIES:



WARNING SIGNS



CARD CAPTURE UNIT



PUSH BUTTONS



GOOSENECK STAND



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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