

# TURNSTAR



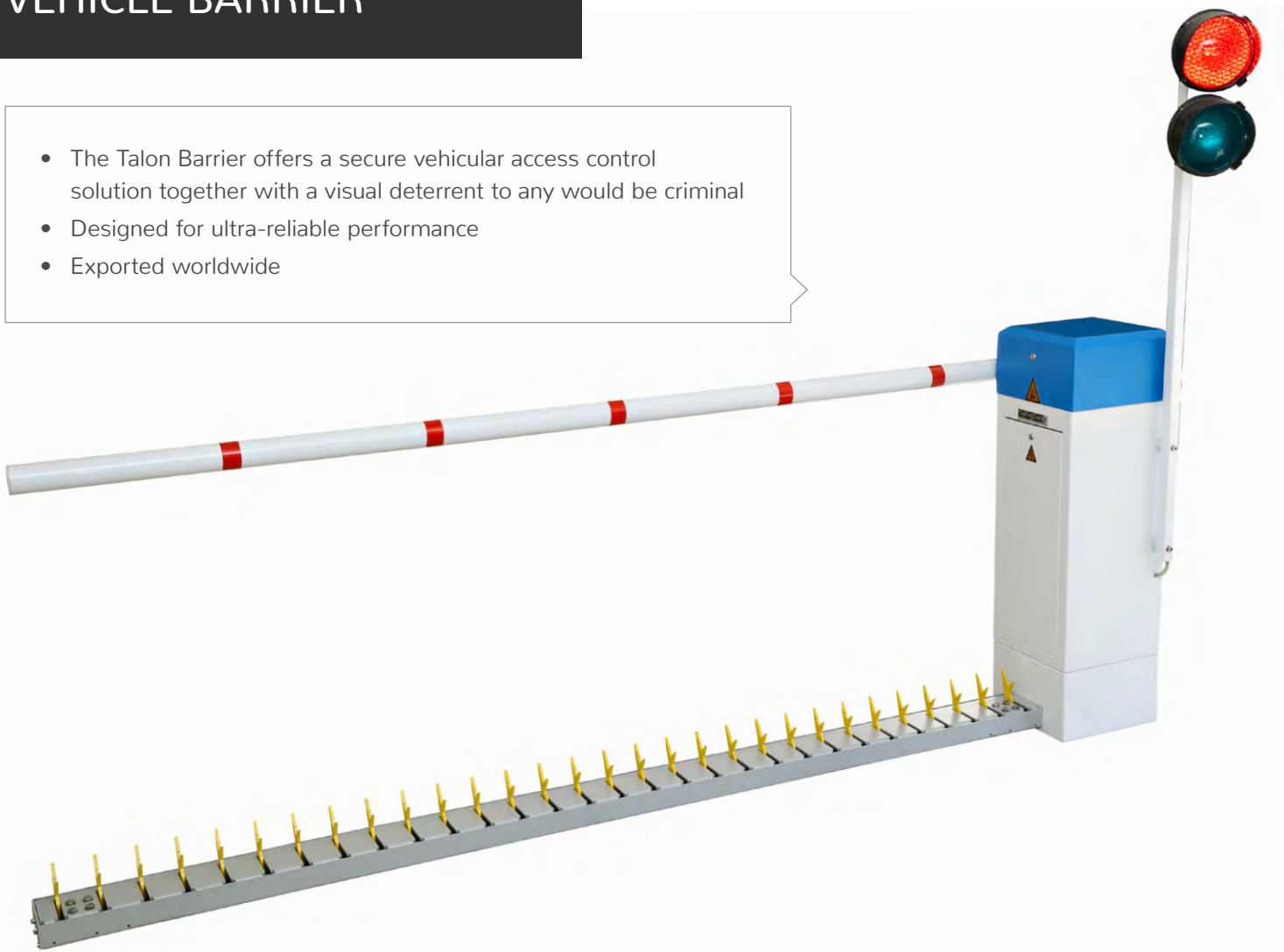
RELIABLE ★ DURABLE ★ GUARANTEED



## TALON

### AUTOMATIC TYRE-SPIKE VEHICLE BARRIER

- The Talon Barrier offers a secure vehicular access control solution together with a visual deterrent to any would be criminal
- Designed for ultra-reliable performance
- Exported worldwide



#### APPLICATIONS

- Suited for applications requiring high volume access and high levels of security
- Used extensively in applications such as parkades, residential estates, office parks, mines and high security installations

#### DESIGNED FOR

- Interior and exterior installations
- Severe operating conditions

#### AVAILABLE CONFIGURATIONS

- With 2.5m, 3m, 3.5m, 4m, 4.5m, 5m, 5.5m and 6m barrier arm and spike rack
- Round or octagonal powder coated aluminium barrier arm
- Recessed and surface mount spike rack design

#### SECURITY RATING



ISO 9001:2015

# UNIQUE FEATURES OF THE TALON TYRE-SPIKE

## XTRALIFE® MECHANISM

- CE certified
- Ultra heavy-duty electromechanical rotation locking mechanism
- Designed by professional engineers
- Tried, tested and perfected over a period of over 20 years

## RELIABLE TECHNOLOGY

- Two 100% duty geared torque motors – consistent and long lasting operation
- Double buffered mechanism lowers mechanical stress which means longer operational life
- Heavy duty deep groove ball bearings
- Tension spring counterweight system with self lubricating industrial plastic bush
- Microprocessor combined logic and loop detector

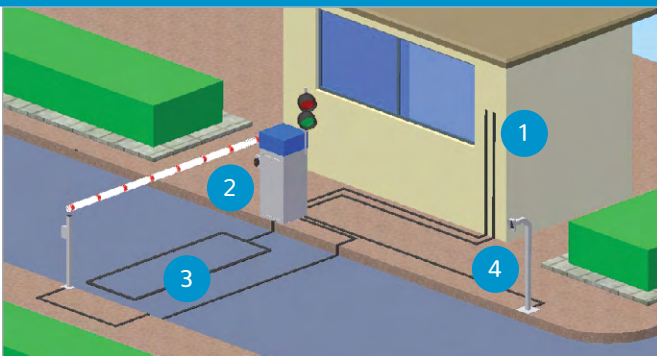
## DURABLE FEATURES

- Barrier arm and spikes are driven by two separate motors – removing the need for long linkages which are prone to failure
- Three stage interlinked opening and closing procedure – preventing mishaps where a vehicle drives underneath the barrier arm before the barrier arm is in the raised position and before the spikes have lowered fully
  - o Opening procedure – the spikes lower, the barrier arm raises and the traffic light changes to green
  - o Closing procedure – the traffic light changes to red, the barrier arm descends and the spikes raise
- Patented unique double sided spike feature – provides protection for traffic in any direction
- Vehicle barrier cabinet, spikes and spike rack supplied in a combination of various coated and uncoated stainless steel materials – offering high levels of corrosion resistance for ultimate longevity
- Factory settings need no further adjustment
- Designed for the harshest of conditions
- Unaffected by dust, dirt and moisture

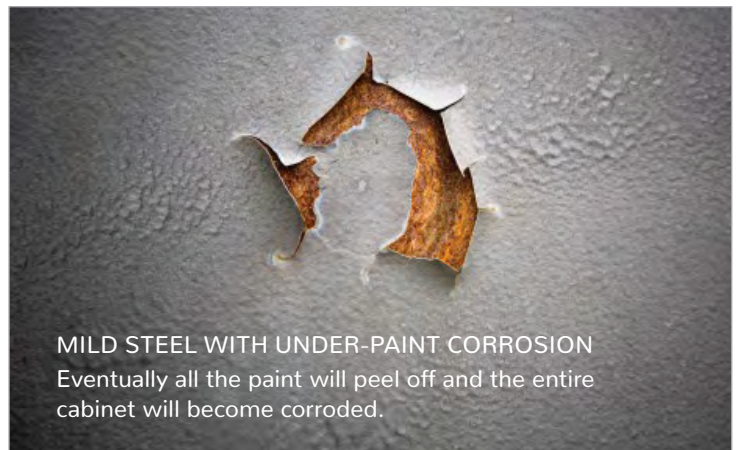
## GUARANTEED MANUFACTURED TO LAST

- 12 month mechanical & electrical guarantee

## TYPICAL INSTALLATION



- 1 Power and data connections
- 2 Infrared beam detector
- 3 Safety / Closing loop in the roadway
- 4 Car gooseneck with rain cover



**MILD STEEL WITH UNDER-PAINT CORROSION**  
Eventually all the paint will peel off and the entire cabinet will become corroded.

### 3CR12 VS MILD STEEL

Turnstar has chosen to manufacture all standard vehicle barrier cabinets from powder coated 3Cr12 stainless steel. 3Cr12 stainless steel is a superior alternative to coated mild steel and atmospheric corrosion testing of 3Cr12 stainless steel has found an improvement of up to 250 times the life of unpainted carbon steel in marine environments. 3Cr12 also minimises under-paint corrosion which can leave you with an eyesore at the entrance to your parking area. **Beware of mild steel cabinets sold by lesser manufacturers.**

# TECHNICAL SPECIFICATIONS

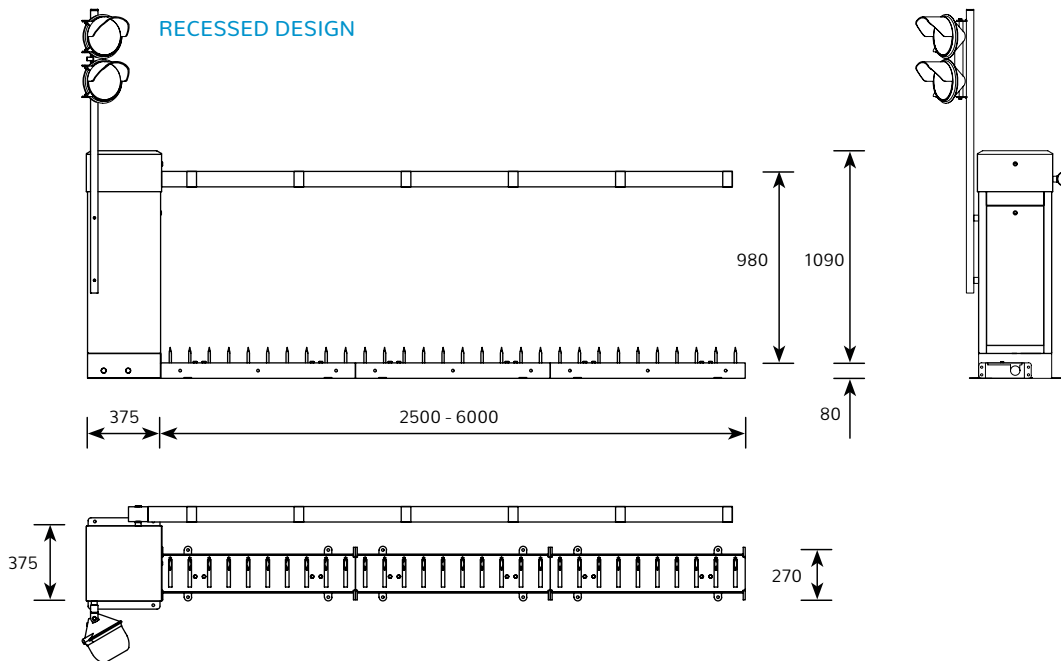
POWER	220 Volt AC		
FREQUENCY	50Hz		
POWER CONSUMPTION	160W		
CABINET WEIGHT	80kg (excluding barrier arm)		
BARRIER ARM WEIGHT	0.9kg per metre		
RACK WEIGHT	Recessed design 30kg per metre   Surface mount design 60kg per metre		
SYSTEMS INTEGRATION	<ul style="list-style-type: none"><li>Integrates with all access control and time &amp; attendance systems</li><li>Triggered through a normally open dry contact</li></ul>		
OPERATING CYCLE TIME	Barrier arm length	Raise (seconds)	Lower (seconds)
	3m	2.2	2.4
	4m	3.2	3.3
	5m	3.3	3.4
	6m	3.4	3.4
SPIKE OPERATING TIME	2.5 seconds		

## MANUFACTURING OPTIONS

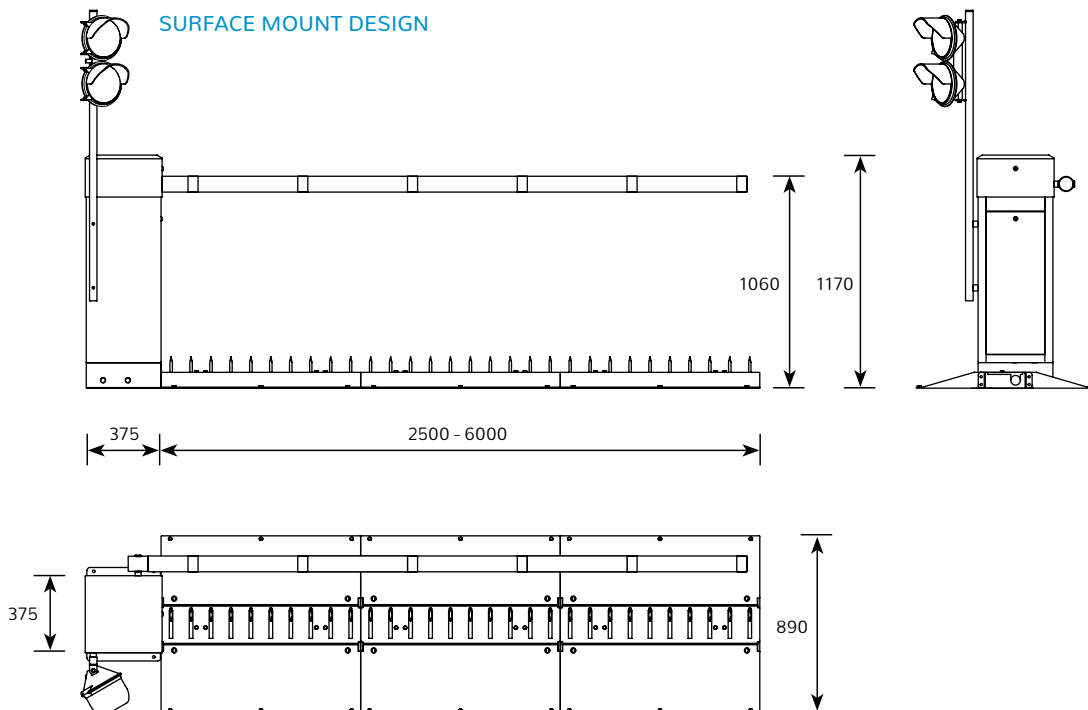
RACK DESIGN OPTIONS	<ul style="list-style-type: none"><li>Recessed design</li><li>Surface mount design</li></ul>
BARRIER ARM OPTIONS	<ul style="list-style-type: none"><li>Round barrier arm 76.2mm outside diameter, 2.5mm wall thickness - with red reflective stripes</li><li>Octagonal barrier arm 90mm x 46mm, 1.5mm wall thickness - with red reflective stripes</li></ul>
LOGIC CONTROLLER OPTIONS	<ul style="list-style-type: none"><li>Combined logic and loop detector (once connected to a loop, it can be connected to an IR beam detector as well)</li><li>Combined logic and IR beam detector</li><li>Loop detector only</li><li>Push-to-open, push-to-close latching control panel</li><li>Selector switch relay control panel</li></ul>
SAFETY ACCESSORIES	<ul style="list-style-type: none"><li>1.5mm<sup>2</sup> single flex wire for the loop installation (100m roll)</li><li>IR beam transmitter and receiver / reflector</li></ul>
ACCESSORIES	<ul style="list-style-type: none"><li>Traffic robot (incandescent light bulb type)</li><li>Traffic robot (LED type)</li><li>Single or double pushbutton in plastic housing</li><li>One button or three button remote control transmitter and receiver</li><li>Card drop box (patent pending design)</li><li>Reader and camera mounting boxes and posts (to customer specifications)</li><li>Multiple coin acceptor for pay-for-entry systems</li><li>LCD transaction counter with reset keyswitch</li></ul>
GOOSENECK OPTIONS	<ul style="list-style-type: none"><li>Car gooseneck with base plate and front mounting plate (1 100mm high)</li><li>Car / Truck gooseneck with base plate and front mounting plates (1 100mm and 1 830mm high)</li><li>Raincovers manufactured to customer specific requirements</li></ul>
BARRIER ARM MOUNTING & SPIKE ORIENTATION	<ul style="list-style-type: none"><li>Left handed (factory standard)</li><li>Right handed</li></ul>
BARRIER ARM ACCESSORIES	<ul style="list-style-type: none"><li>Articulated arm kit (jack-knife) for round and octagonal barrier arms - for low height clearance installation</li><li>Folding aluminium skirt</li><li>Break-away arm for octagonal barrier arm (microswitch can be added for alarm trigger)</li></ul>
CABINET FINISH OPTIONS	<ul style="list-style-type: none"><li>3Cr12 stainless steel with UV resistant exterior powder coat finish (white bottom with blue top) ▲</li><li>304 grade brushed stainless steel</li><li>316 grade brushed stainless steel ■</li></ul> <p>▲ other colours available on request ■ suitable for corrosive environments (details available on request)</p>

# TALON TYRE-SPIKE VEHICLE BARRIER RANGE

## RECESSED DESIGN



## SURFACE MOUNT DESIGN



Right handed option also available. Talon rack may be supplied in other colours.

© Turnstar Systems

**TURNSTAR**   
RELIABLE ★ DURABLE ★ GUARANTEED

info@turnstar.co.za | www.turnstar.co.za

Turnstar Systems (Pty) Ltd | Reg No: 2012/100536/07 | Established in 1990

### JHB FACTORY

18 6<sup>th</sup> Street, Wynberg,  
Sandton, 2090  
T: +27 (0)11 786 1633  
F: +27 (0)11 440 5839

### CAPE BRANCH

Unit 9 Elect Park,  
13 Teejay Road, Brackenfell,  
Cape Town, 7560  
T: +27 (0)21 981 3043

### KZN BRANCH

Unit 5 - 7 Amatuli Industrial Park,  
5 - 7 Eagle Road, Shaka's Head,  
Umhlali, Kwazulu-Natal, 4420  
T: +27 (0)32 947 0391

### POSTAL ADDRESS

PO Box 41,  
Highlands North,  
2037



TurnstarSA



TurnstarSystems



ISO 9001:2015