

# Product information

**Typical applications:**

Vehicle entry blocking

Access security

Car parking control

Vandal protection and

Pedestrianisation schemes



## ATLAS GROUP

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### The Atlas motorised retracting bollard

- Robust 180mm x 180mm x 10mm thick steel bollard, 650mm high.
- Inherently-safe magnetic drive allows slippage in motion
- Shock absorbing guide rollers reduce damage from light impact.
- Power supply back-up/fail open or fail secure versions available.
- Patented\* quiet and frictionless transmission system for low maintenance.



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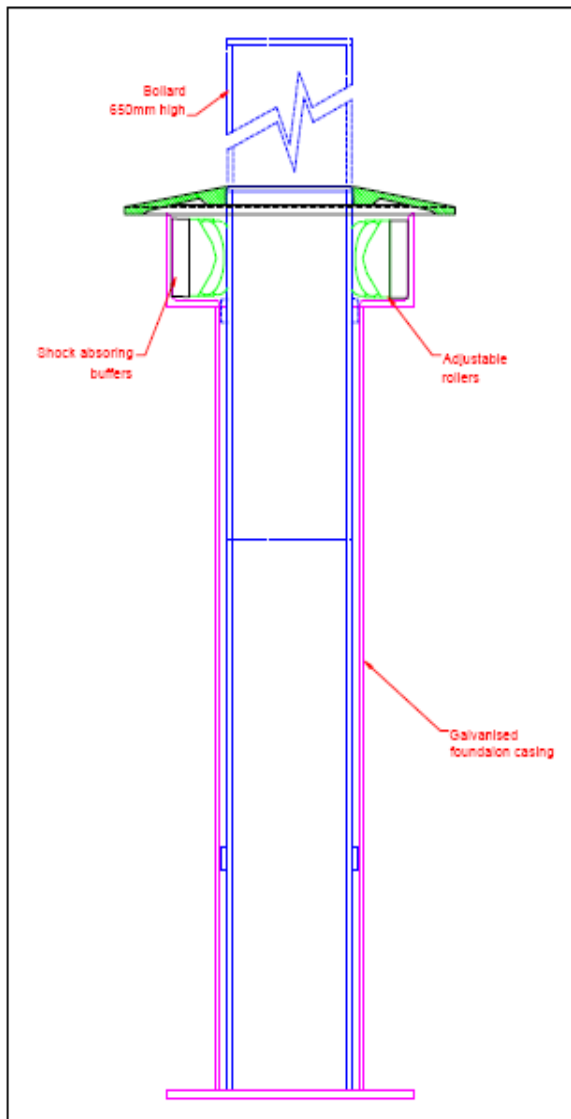
A member of the



British Parking Association

**Description**

The new ATLAS "Sticky Wheel" operated retractable bollard affords the highest level of safety while combining speed with maximum durability at reasonable cost. Constructed in RHS steel, up to 180mm x 180mm, the bollard will raise and lower in 12 seconds and has an operating height of 650mm. Guide rollers are buffered to cushion against impacts and reduce the likelihood of damage. A manual over-ride facility is included which allows the bollard to be both raised and lowered with the appropriate security key. Ingenious unitary design provides for ease of installation and maintenance.



**Installation**

The unitary design of the new ATLAS bollard facilitates rapid and reliable installation. To control an entrance over 3 metres wide, bollards should be arrayed 1.5 metres apart. Each bollard requires an excavation 500mm square by 1200mm deep. The site should be well drained. The mechanism is protected against water damage but performance will be unreliable if operating in standing water. All controls are housed in a separate enclosure, which provides a supervised low voltage supply to the drive motor.

The control logic card requires mains input and provides 24v DC power output in sequence for driving the motor safely. The card can be configured on site to meet individual user's specific requirements:

- Status indicator and warning beacon outputs.
- Open, close and stop commands can be separately activated.
- Power back-up for uninterrupted operation during a mains power failure.
- Proximity card, radio control, token or push button console operation.
- Infrared, induction, and radar detectors for safety or opening on approach or exit.
- Interface to new or existing voice communication, video or traffic control lights.

Control signals from accessories by third parties, if to industry standard, will be accepted by the control card.

Refer to separate technical instruction sheets for induction loop configurations and for supply and interconnecting electrical wiring.

**Applications**

Heavy duty construction provides exceptional robustness, making it ideal for anti-ramraid and high security protection as well as for traffic control applications in vulnerable sites. Employing a low voltage, high torque motor, the Atlas bollard is suitable for intensive industrial and commercial use and is designed to meet the most demanding requirements.

**Operation and Maintenance**

A Parvalux® D.C. permanent magnet electric motor powers dual magnetic drive wheels through a worm screw and multi-spur reduction gear unit. All gearing is enclosed within an aluminium casing containing an oil bath for optimum lubrication and heat dissipation. Shielded ball bearings are used throughout, spring loaded for quiet running. Magnetic drive wheels engage the inside of the bollard to transmit drive motion.

ATLAS bollards can be opened by push button, radio control signal from a keyfob transmitter, card reader, automatic vehicle detector and other devices and operation can be customised to suit individual requirements. In case of power failure a special key is provided that can be used to raise or lower the bollard manually.

Exclusive design improvements permitted by the magnetic drive system ensure low repairs and maintenance costs and reliable service.

The motor and gearbox unit is factory packed with lifetime lubrication and sealed. External installations require annual electrical testing for safety.

**Security and Protection**

The bollard automatically locks in the UP position for maximum security. However, when in motion, the patented magnetic drive unit provides unlimited "slip" if the bollard should meet with an obstruction. This unique feature provides both internal protection for the mechanism and external safety for the user. Components are automatically reset during the next operation without need of user intervention. The motor and drive are combined in one compact unit, which is sheltered in an air pocket within the bollard to assure lifetime sealing.

**Safety**

An adjustable electronic clutch limits the pressure applied should the bollard meet an obstacle. In the event of violent impact, the magnetic wheel will yield. Connections are available to support installation of infra-red beam, induction detector or cushion edge safety systems.

Technical Specification			
<b>Motor:</b>		<u>Model I</u>	<u>Model II</u>
Operating voltage		24v D.C.	24v D.C.
Current Consumption (max.)		8.5 amps	12 amps
Operating Temperature		40° C	40° C
Insulation Class (B.S. 2757)		'F'	'F'
<b>Gearbox:</b>			
Torque	(Nm)	11	11
Reduction Ratio	Worm	91/3:1	200:1
	Spur	24.97:1	-
Lubrication		Factory lubricated for life	Factory lubricated for life
<b>General:</b>			
System power supply	Volts	230±15%	230±15%
"Sticky Wheel" BH <sub>max</sub>	NiFeb	35	35
Maximum Raised Height		600mm	650mm
Operating speed	Secs.	10 – 12	2 – 6
Duty cycle		Continuous	Continuous
Weight		210 Kg	280 Kg
Bollard (L X W X H)	(mm)	150x150x600	180x180x650
Max. dimensions (L x W x D)	(mm)	305x305x1030	335x335x1080