ATG ACCESS
PROTECTING WHAT MATTERS

CORE RANGE & BESPOKE SOLUTIONS

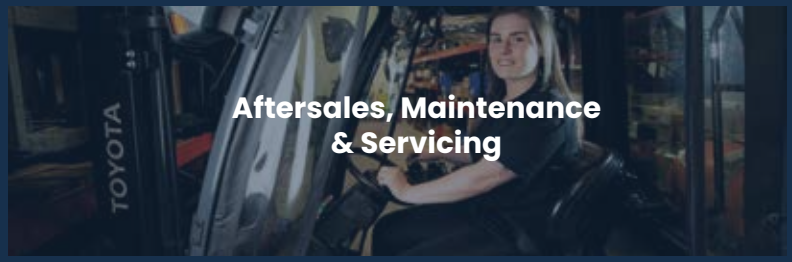
PROTECTING WHAT MATTERS

ATG Access provides intelligent, physical security solutions to both urban and industrial sites around the world, keeping people and places safe.

We have been designing, testing and manufacturing physical security products for over 30 years. In that time, we've protected everything from driveways to palaces, in over 40 countries around the world. With us, you can be sure you are buying the best quality solutions tested to rigorous British, American and international standards.

Our services are designed for customers to choose specific elements where they need a particular area of expertise, or alternatively we can deliver everything as a complete end-to-end service.

Coupled with our extensive crash tested product range - second to none service delivery covering:



ABOUT US

About ATG Access

It's easy to say, but at ATG we really do have a different approach. When the company was started in 1989, it was in direct response to the problem of cars being stolen from driveways.

Fast forward thirty years and over 100 impact tests later, that same passion and engineering expertise is utilised to solve and deliver the most complex vehicle security barrier projects around the world.

That direct approach to tackling issues and problems as we encounter them is stronger than ever, thanks to the experience we have gained. It's what we call everyday innovation, a way to be creative with our problem solving and never giving up on an issue. It's why we're tasked with protecting some of the world's most important landmarks, buildings, and critical national infrastructure sites.

Protecting what matters is what we do. It's what we've always done and the way we do it at ATG is in no small part down to our amazing people.

About us in figures

40+
countries
ATG projects

15+
network of
distributors
around the world

60+
years security
experience in the
engineering team

10%
of our workforce
apprentices

Core Range Bollards

	Bollard Diameter	Height Above Ground	Core Finishes	Security Rating	Sleeved	Minimum Array	Rising Bollard	Shallow Mount Bollard	Removable Bollard	Fixed Bollard	Surface Mounted Bollard	Page number
SP400 Automatic 80	223 mm	1000 mm	SB	IWA-14-1 7200 kg @ 50 mph	●	1	●	×	×	×	×	10
SP400 SM 48, 64 & 80	203/219 mm	800/ 940 mm	G	PAS68 7500 kg @ 30 mph + 40 mph IWA14-1 7200 kg @ 30 mph + 40 mph + 50 mph	●	3	×	●	ES	×	×	12
SP400 Super Shallow	203/219 mm	950 mm	G	IWA 14-1 7200 kg @ 50 mph	●	3	×	●	ES	×	×	14
SP400 Automatic	240/209 mm	1000 mm	SB	PAS68 7500 kg @ 40 mph	●	1	●	×	×	×	×	16
SP400 TT Automatic	209/280 mm	1000 mm	SB	PAS68 7500 kg @ 40 mph	×	1	●	×	×	×	×	18
SP400 Surface Mounted	203 mm	1050 mm	G	PAS68 7500 kg @ 30 mph IWA 14-1 7200 kg @ 30 mph	●	6	×	×	×	×	●	20

SB: Sherardised Black | **G:** Galvanised | **MS:** Manganese Steel | **ES:** Engineered Solution | ●: Available | ×: Not available

CORE RANGE

Core range

The SP400 family of products is the core range offered by ATG Access and is ideally suited to situations where different threat levels and operational types are required on a single site.

The diameter of all the bollards is similarly slim across the range and with a wide range of security ratings, enables you to mix and match bollards to suit threat levels and site constraints. This allows for a consistent aesthetic and can significantly reduce costs.

As with all ATG Rising Bollards, these can be operated manually, without power or cabinets (independent operation) or can be fully automatic with an above ground hydraulic pumping system, within a roadside cabinet, or they may be equipped with an integral pump, which is located within the bollard itself.

SP400 Automatic 80 Bollard	7,200 kg @ 80 kph
SP400 SM 48, 64 & 80 Bollard	7,500 kg @ 48 kph
	7,500 kg @ 64 kph
	7,200 kg @ 48 kph
	7,200 kg @ 64 kph
	7,200 kg @ 80 kph
SP400 Super Shallow Bollard	7,200 kg @ 80 kph
SP400 Automatic Bollard	7,500 kg @ 48 kph
	7,500 kg @ 64 kph
SP400 TT Automatic Bollard	7,500 kg @ 64 kph
SP400 Surface Mounted Bollard	7,500 kg @ 48 kph

Technical Specifications

7,200 kg @ 80 kph

Bollard Diameter	223 mm | 230 mm (Sleeved)
Height Above Ground	1,000 mm
Foundation Depth	1,700 mm
Finishes Available	Supplied galvanised and with technical zinc finishes for excellent corrosion protection. It is then supplied as standard with a Grade 316 Stainless-Steel aesthetic sleeve with two bands. The product has the option of a direct LED lighting lid for additional visibility.
Security Rating	**IWA 14-1:** 2013 V/7200[N2A]/80/90:1.4 *Minimum tested array – 1 unit*
Operations & Speed	Hydraulically operated with either an external or integral pump, with an option for manual operation when required (operated via a hand-held battery drill). EFO function is available to facilitate operation at a speed of two seconds (external HPU).
Safety	Fully compliant with BS EN ISO 13849:2015, safety of machinery - CE Marked. Can also be integrated into a fully compliant TOPAS system.
Optional Extras	Emergency Fast Operation | Battery Back Up | Remote Fault Logging | Multiple Access Control Options
Method of Operation	Rising (Automatic, Integral, Independent)

SP400 Automatic 80 Bollard

Product Overview

The ATG Access SP400 Auto 80 Bollard is a high performing, aesthetically pleasing automatic security bollard, impact rated to the internationally recognised IWA 14-1 certification.

Successfully withstanding impact from a 7,200 kg vehicle travelling at 80 kph (50 mph), this product achieved less than 1.5 meters of penetration on impact in a single-bollard configuration.

Like many other ATG Access hydraulically-operated bollards, the SP400 Auto 80 Bollard has been designed with reliability and serviceability in mind. The inner bollard sits within an integral slide tube which then slides into the ground housing, facilitating easy and quick servicing regimes and minimising site disruption. This also facilitates a straightforward installation.

Supplied with a grade 316 stainless-steel sleeve as standard, this product comes with the option of a direct LED lighting lid to increase visibility (red lights as standard).

The bollard can be part of a large, secure access control scheme or operated as a standalone system. Able to cope with a high number of operations per hour, this product is ideal for sites requiring maximum security and with a high traffic flow. The system can also be supplied with an 'emergency fast operation' function which allows the product to be deployed in just seconds.

Driven by a hydraulic pump, this product is also supplied (depending on operational requirements) with a PLC control board, hand-pump mechanism for use in case of power fail, a control cabinet with an internal IP65 rated enclosure for all electrical components and can be integrated with any access control required.

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Technical Specifications

7,500 kg @ 48 kph
7,200 kg @ 48 kph
7,500 kg @ 64 kph
7,475 kg @ 64 kph
7,500 kg @ 80 kph

Bollard Diameter	203 mm | 219 mm (sleeved)
Height Above Ground	800 mm | 940 mm
Foundation Depth	178 mm
Finishes Available	Galvanised for maximum corrosion protection. May also be accessorised with a range of attractive aesthetic sleeves in a variety of RAL colours as well as stainless steel.
Security Rating	**SP400 SM 48 BOLLARD:** **BSI PAS 68:** 2013 V/7500[N2]/48/90:0.0/0.0 **IWA 14-1:** 2013 V/7200[N2A]/48/90:0.2 *Minimum tested array – 3 units* **SP400 SM 64 BOLLARD:** **BSI PAS 68:** 2013 V/7500(N2)/64/90:5.0/4.0 **IWA 14-1:** 2013 V/7475[N2]/64/90:5.2 *Minimum tested array – 3 units* **SP400 SM 80 BOLLARD:** **IWA 14-1:** 2013 V/7500(N2A)/80/90:10.5 *Minimum tested array – 3 units*
Method of Operation	Shallow Mount | Removable

SP400 SM 48, 64 & 80 Bollard

Product Overview

The ATG Access SP400 SM 48, 64 & 80 Bollard is the latest innovation within an already extensive shallow-foundation bollard portfolio.

Building on the huge success of the original SP400 shallow-mount bollard, this new model introduces the next generation of shallow foundation technology.

The SP400 SM 48, 64 & 80 impact-tested bollard has a slim profile making it aesthetically pleasing and able to be fitted with a multitude of sleeve and street furniture options. Its shallow-foundation depth enables effective perimeter protection to be installed within urban environments which typically have a dense network of underground services that can be very costly to redirect.

The system is incredibly flexible and is able to cope with complex array requirements with ease. This compact modular design delivers this flexibility with fewer components, resulting in more efficient transportation. This, together with the small quantities of concrete required for installation, makes the SP400 SM 48, 64 & 80 Bollard a great choice.

The SP400 SM 48, 64 & 80 Bollard is ideal for the securing of critical national infrastructure and crowded places within the public realm.

The removable operation type is an engineered solution.

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Technical Specifications

7,200 kg @ 80 kph

Bollard Diameter	203 mm 219 mm (sleeved)
Height Above Ground	950 mm
Foundation Depth	128 mm
Finishes Available	Galvanised for maximum corrosion protection. May also be accessorised with a range of attractive aesthetic sleeves in a variety of RAL colours as well as stainless steel.
Security Rating	**IWA 14-1:** 2013 V/7200(N2A)/80/90:3.3 *Minimum tested array – 3 units*
Method of Operation	Shallow Mount | Removable

SP400 Super Shallow Bollard

Product Overview

The SP400 Super Shallow Bollard is the latest innovation within the ATG Access SP400 range.

Building on the huge success of the original SP1000 shallow mount bollard, this new model introduces the next generation of shallow-foundation technology.

The SP400 Super Shallow impact-tested bollard has a slim profile making it aesthetically pleasing and able to be fitted with a multitude of sleeve and street furniture options. Its super shallow-foundation depth enables effective perimeter protection to be installed within urban environments which typically have a dense network of underground services that can be very costly to redirect.

Successfully impact tested to the IWA 14-1 testing standard, this product can arrest a 7,200 kg vehicle travelling at 80 kph (50 mph) with minimal penetration.

The system is incredibly flexible and is able to cope with complex array requirements with ease. This compact, modular design delivers this flexibility with fewer components, resulting in more efficient transportation. This, together with the small quantities of concrete required for installation, makes the SP400 Super Shallow Bollard a great choice for the environment.

The SP400 Super Shallow Bollard is ideal for the securing of critical national infrastructure and crowded places.

The removable operation type is an engineered solution.

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Technical Specifications

7,500 kg @ 48 kph | 7,500 kg @ 64 kph

Bollard Diameter	209 mm | 219 mm (sleeved) | 240 mm (top lid)
Height Above Ground	1,000 mm
Foundation Depth	1,528 mm
Finishes Available	Technical Zinc black finish as standard with the option of two yellow reflective bands. Product can be fitted with an aesthetic sleeve and supplied with a stainless-steel, LED lighting lid if required.
Security Rating	**BSI PAS 68:** 2007 V/7500/48/0.0/0.0 **BSI PAS 68:** 2007 V/7500/64/2.3/2.7 *Minimum tested array – 1 unit*
Operations & Speed	Up to 90 operations per hour | Normal Operation: approximately 6 - 8 seconds. An option for EFO facilitating operation in under two seconds.
Safety	Fully compliant with BS EN ISO 13849:2015, safety of machinery - CE Marked. Can also be integrated into a fully compliant TOPAS system.
Method of Operation	Rising (Automatic, Integral, Independent)

SP400 Automatic Bollard

Product Overview

The ATG Access SP400 Automatic Bollard is available in a multitude of finishes and operation types making this product one of ATG Access's most versatile high-security bollards. This product has been successfully tested to the British BSI PAS 68 impact test standard.

Supplied in a black zinc coated finish as standard (with or without bands) with a stainless-steel lid; this bollard can also be fitted with a decorative sleeve and LED lights if required.

The automatic SP400 high-security bollard is hydraulically operated using an external or integral HPU.

The bollard has been successfully tested twice with a 7,500 kg vehicle travelling at both 64 kph and then 48 kph.

Able to cope with a high number of operations per hour, this product is ideal for sites with high traffic flow. The bollards can be part of a large, secure access control scheme or operated as a standalone system.

The control provided as standard is a PLC control system which ATG Access can design to meet whatever operational requirements you may have (all systems designed in house). An emergency fast operation function is also available if required which raises the system in under two seconds.

The product has been designed and manufactured with serviceability in mind and as a result offers fantastic reliability.

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Technical Specifications

7,500 kg @ 64 kph

Bollard Diameter	209 mm (top section) 280 mm (bottom section)
Height Above Ground	1,000 mm
Foundation Depth	900 mm
Finishes Available	Technical Zinc Black finish as standard. Product can be vinyl wrapped with a bespoke design or advertising copy if required.
Security Rating	**BSI PAS 68:** 2010 V/7500(N2)/64/90:0.53/6.10 *Minimum tested array – 1 unit*
Operations & Speed	Up to 90 cycles per hour | Normal operation in approximately 6 - 8 seconds.
Safety	Fully compliant with BS EN ISO 13849:2015, safety of machinery - CE Marked. Can also be integrated into a fully compliant TOPAS system.
Method of Operation	Rising (Automatic, Integral, Independent)

SP400 TT Automatic Bollard

Product Overview

The ATG Access SP400 TT Automatic Bollard has a unique double retractable design which ensures smooth operation and acts as a depth-saving feature.

Most impact-tested, automatic bollards have a foundation depth of around 1,500 mm+. This innovative product has a foundation depth requirement of just 900 mm - less than a meter.

The product has been successfully impact tested in a single bollard array in accordance with BSI PAS 68:2010, arresting a 7,500 kg vehicle travelling at 64 kph (40 mph) and achieving less than a meter of penetration.

The SP400 TT shallow foundation automatic bollard is unique within the high-security industry and is the shallowest automatic bollard solution to mitigate against the 7,500 kg @ 64 kph threat level in a single bollard array.

This latest innovation in crash-tested technology allows the use of automatic bollards for high-security solutions to be installed within areas where underground services or a lack of space for excavation may cause a problem.

Able to cope with a high number of operations per hour, this product is ideal for sites with high traffic flow.

The bollards can be part of a large, secure access control scheme or operated as a standalone system.

The control provided as standard is a PLC control system which we can design to meet whatever operational requirements you may have. Driven by hydraulics; either utilising an external HPU or an integral pump.

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Technical Specifications

7,500 kg @ 48 kph

Bollard Diameter	203 mm
Height Above Ground	1,050 mm (including surface plate)
Foundation Depth	Surface Mounted – 0 mm
Finishes Available	Galvanised as standard. For any alternative finishes required, please consult with our technical team.
Security Rating	**Bolted at each end of the array** **BSI PAS 68:** V/7500(N2)/48/90:0.0/0.0 **Secured with ballast at each end of the array** **BSI PAS 68:** 2010 V/7500[N2]/48/90:2/0 **Linked to static bollards at each end of the array** **IWA 14-1:** Bollard V/7200[N2A]/48/90:0.9
Method of Operation	Surface Mounted

SP400 Surface-Mounted Bollard

Product Overview

The rapid-deployable, SP400 Surface-Mounted Bollard system is one of the world's first impact-tested surface-mounted bollard systems, providing BSI PAS 68 certified impact protection.

Installation and removal of the product is straightforward and rapid. The array of bollards can be utilised when heightened security measures are needed as a temporary security measure.

The system can either be bolted at each end of the array or anchored using ballast. This could be a planter a temporary fence system, a highway barrier, or a product from the National Barrier Asset stock.

Six bollards can be deployed in just over ten minutes and in this instance, using planters to pin the array at each end.

The temporary security solution can be used to protect an internal or external perimeter. The bollard system can be installed on a more permanent basis if required if site security requirements change.

This product will not only stop vehicle-borne, explosive attacks; it will also provide an intelligent solution for temporary security against attacks where vehicles are used as the weapon.

The surface-mounted bollard configuration has been tested as a stand-alone system and in conjunction with the Hesco Bastian and Highway Care fence technology.

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BESPOKE SOLUTIONS

Bespoke solutions

ATG Access offers unrivalled expertise and capability in the design and production of bespoke HVM solutions.

As pioneers in counter terror protection solutions, our in-house engineering team have designed and built hundreds of products and have commissioned over 100 crash tests to British, American and international standards.

The products we manufacture includes our core range of SP400 bollards as well as a wide variety of crash tested and engineered bollards to provide a solution for any situation.

We also design and deliver many bespoke solutions. Bespoke means not just something that looks different, for example incorporating a crash-rated sculpture into the line of defence, but where complex site issues demand a non-standard engineering approach to solve a problem.

We offer a truly holistic approach from design conception, manufacture, installation and commissioning through to maintenance and servicing.

Our extensive catalogue of existing case study projects is testament to our design skills, engineering strength and manufacturing capability.

Case Study: Westminster Bridge

ATG Access was tasked to design and develop a HVM solution for use on Westminster Bridge.

The project presented considerable constraints including shallow available foundation depth, longitudinal camber on the bridge, expansion joints and cycle lanes. The project site is also extremely busy and high profile, so ease of installation and aesthetics were paramount.

Drawing on our extensive experience in the development of shallow mount bollards, we designed the Westminster Bridge Protection Bollard with a foundation depth of just 40mm.

The bollard protects from attack without creating excess loadings to bridge structure and incorporates adjustments to account for bridge camber and expansion joints ensuring perfect bollard alignment.

In terms of aesthetics we were able to match historic bollard designs – utilizing an exclusive cast process providing high strength and longevity. The system is extremely fast to install with more than 30 bollards being placed per day, minimizing disruption to this highly trafficked and high profile bridge.

Case Study: MCR Sculpture

ATG Access completed HVM bollard installation projects across major Railway Stations in the North West of the UK, including a one-off sculpture which also boasts HVM capabilities.

The sculpture, shaped as the letters MCR (shorthand for Manchester) stands outside Manchester Piccadilly Station as part of a comprehensive line of defensive Hostile Vehicle Mitigation measures. Designed and built by ATG's in-house engineering team, the sculpture pays homage to Manchester's rich industrial and engineering heritage.

Drawing inspiration from industrial elements still present throughout Manchester Piccadilly station and the trains that once graced the Manchester rail line, whilst integrating the sculpture with a modern lighting system, the 'MCR' sculpture shines a new light on Manchester's rich heritage.

Case Study: Paddington Station

This was an ambitious and award-winning architectural transformation of Paddington station – which required protection from both hostile vehicles and accidental impact to internal structures from heavy commercial vehicles that operate at the main station's concourse area level.

ATG designed and tested a new rectangular form bollard which sat in sympathy with the architectural structure of the station and are arranged to sit on Brunel's original 10-foot imperial architectural grid. The bollards also incorporated new patented technology to help restrain an attacking vehicle.

The original internal columns which both support the canopy roof and contain roof drainage have special shock absorbing surround structures which sit within ATG patented shallow mount foundation structure.

Many of the benches around the station also contain energy absorbing technology to restrain up to a 44-tonne commercial vehicle before it can penetrate balustrade glazing which separates the concourse level from the level below at the new Elizabeth Line station.

A SELECTION OF PROJECTS

Schiphol Airport, Netherlands

Changi Airport, Singapore

Disneyland Resort, USA

Le Louvre Museum, UAE

Sydney Opera House, Australia

BBC Headquarters, UK

United Nations HQ, Bahrain

CSIS HQ, Canada

Amazon Data Centre, Sweden

Central Business School, Denmark

ENCO Project, Thailand

EDF Energy Plant, UK

Korean Power Exchange, South Korea

Joao Jacinto Tome, Portugal

Mainzero, Deutsche Bank, Germany

Federal Reserve Bank, USA

Bank Infrastructure Lagos, Nigeria

Canadian Embassy, Palestine

Shanghai Government Building, China

Saudi Embassy, Pretoria, South Africa

Australian High Comission, Malaysia

Marriott Hotel, Egypt

St Pancras Hotel, UK

Royal Palace, Jordan

Royal Kensington Palace, UK

Tepic High Security Prison, Mexico

Guangdong Province Jail, China

Sydney Police Station, Australia

Toronto Dominion Centre, Canada

Misawa Air Base, Japan

NATO Site, Romania

City of Malmo, Sweden

Westminster Bridge, UK

Manchester Victoria Station, UK

Woodland Heights Interchange, Singapore

Tirana Port, Albania

Wembley stadium, UK

Adelaide Oval, Australia

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