

# Portable Barriers & Bollards



**Start Installation at 9:00 AM,  
Have Protection by 9:15 AM**

Delta Scientific's quick deployment, modular portable barriers rapidly set-up on existing concrete or asphalt roads, level compacted soils and other hard surfaces with no excavation or sub-surface preparation required.

**Towable Barriers**—Temporary barricade systems that address a specific threat or secure a facility during special events that set up in 15 minutes.

**Unfilled Buttresses**—Provide pass-through rates suitable for most temporary inspection and identification station requirements that set up in two hours.



# Today—A Wide Selection of Portable Barriers

Protecting people from vehicle attack is no small responsibility; it's becoming mandatory. Carefully researching available options and consulting with experts will ultimately lead to the right solution in helping you protect your location from vehicle-based terrorism.

Installation  
Faster than  
having Lunch

<b>MP5000</b>	20ft (16.1m)	ASTM M40 Certified, Engineer-rated to ASTM M50
	16ft (4.88m)	ASTM M30, ASTM M40, ASTM M50 Certified
	12ft (3.66m)	DOS K4/L1 Certified, Engineer-rated to ASTM M50
<b>DSC1000</b>	12ft (3.66m)	ASTM PU40
<b>DSC1500</b>	16ft (4.8m)	ASTM M30
<b>TB100 Single</b>	Omni-directional	10,000lbs @ 20mph
<b>TB100-5</b>	Omni-directional 15,000lbs @ 30mph (6803kg @ 48kph)	ASTM M30 Certified
<b>TB150-10</b>	Omni-directional 15,000 lbs @ 50 mph (6803kg @ 80.4kph)	ASTM M50 Certified

## Delta MP5000

### The Most Popular Portable Barrier in the Market

The MP5000 is a mobile, crash barrier that can be towed into position by a medium-sized pick-up truck or equivalent and deploys in 15 minutes to stop and disable a 15,000 lb (66.7 kN) G.V.W. vehicle moving at 50 mph (80.4 kph), an M50 ASTM rating. Both M30 and M40 rated barriers are also available. The MP5000 is available in 12-, 16- and 20-foot openings.



Within 15 minutes of being sited, the MP5000 lowers itself into position with built-in hydraulic jacks. There is no hand cranking. The trailer is stored off to the side completing the deployment. To move the barrier, the procedures are simply reversed. Both the operation of the barrier as well as deployment and retrieval are push-button controlled. A standard system includes a battery-operated power unit, replenished from either a solar array or multiple local low voltage sources. Optionally, a Delta Hydraulic Power Unit operated on a locally supplied power or full manual system, or combination, is available. Both the locally powered and battery powered hydraulic pumping unit can be sized to provide pass-through rates suitable for most inspection and identification station requirements. The barricade operates at rates between 10–15 seconds for a full up-down cycle. Sustained rates of 40 cycles per hour can be maintained indefinitely, depending on the recharging methods employed.

### Delta H8050 DC Powered Pump Upgrade Available

A universal voltage DC powered version is available for remote locations that have limited power options but require the functionality that a typical hard-wired pump can achieve including Emergency Fast and multiple control options.



## Delta DSC1000

### Affordable, Commercial Crash-Tested Portable Barrier

The DSC1000 is a commercial, mobile crash barrier that can be towed into position by a golf cart and deploys in 10 minutes to protect people and property at temporary events. It stops a 5,000 lb (2300 kg) vehicle going 40 mph (64 kph). The DSC1000 is the commercial extension of the MP5000. Many municipalities have requested a commercial barrier that can be towed into place and protect attendees from errant drivers.

Authorities want the vehicle stopped but they also want to avoid injury to the driver as much as possible. Therefore, contrary to the "hard stop" created with anti-terrorist crash-tested

barricades, testing of the new DSC1000 demonstrates that the collision did not distort the passenger compartment of the vehicle. Instead, Soft Stop technology decelerates and stops the vehicle over a short distance, technically referred to as "occupant ride down" acceleration.

With no foundation or electrical hook-up needed, two people can set up and take down the DSC1000 barrier in minutes. The barricade's self-contained power system provides all the power necessary to raise and lower the unit onto its trailer and open/close the barrier. This battery-powered system re-charges with a solar panel or external means. Controls can be locked or operated at the barricade or remotely.





## Delta DSC1500

### A Portable Beam Barricade

Delta's new DSC1500 portable beam barricade sets up quickly and temporarily to secure locations during short-term events and anywhere a beam barricade is needed for interim security. With a clear opening of 16 feet (4.8 m), the DSC1500 is able to stop a 15,000 lb (66.7 kN) vehicle going 30 mph (48 kph).

Many organizations have the need for easy to install, temporary drop-arm barriers that can install to temporarily close down a roadway to one or two lanes or block parking lot exits to deter thefts. Previous beam barriers had to be filled with sand, gravel or cement to be operable. To remove the DSC1500 from its temporary site, it is simply repacked in ten (10) minutes.

The DSC1500 tows into position to control vehicle access within ten (10) minutes. No excavation or sub-surface preparation is required. Once positioned, the mobile barricades unpack themselves using manual hydraulics to raise and lower the barriers off their wheels. A self-deploying trailer with integrated lifting device facilitates rapid installation. The process is simply reversed when the event is over or the time comes to deploy the beam barrier at another location.

## Delta TB100

### A Crash-Certified Portable Bollard

Delta's new patent pending TB100 moveable bollards stop terrorists and errant drivers from causing mayhem on roadways as narrow as bike paths or as wide as airport runways. A single TB100 bollard absorbs 400,000 foot pounds of kinetic energy from an impact in any direction. Individual portable bollards provide vehicle barricades in applications such as heavily traveled narrow walkways, roadways or any area that a vehicle can get through.

Use individually or link together five TB100 portable bollards with a cable system. Portable bollards can also be used in conjunction with Delta's popular MP5000 portable barricade to fill in gaps in the road. The combination of the portable barriers with the new portable bollards provides fast controlled vehicle access without the time and labor of installation.

Set TB100's into place onto any stable surface such as concrete, asphalt, compacted soil or vegetation and installation is done. No excavations or sub-surface preparations are required.



## Delta TB150

### M50 Certified Portable Bollard

Certified testing demonstrates that a TB150 portable bollard will stop and disable a 15,000 pound (6,804 kg) vehicle traveling at 50 mph (80.4 kph), resulting in an ASTM M50, P3 rating. Individual portable bollards provide vehicle barricades in applications such as heavily travelled walkways and roadways or any area that a vehicle can get through. Link TB150 portable bollards together with a cable system and place on a road's surface to create immediate protection for a span of 20 feet (6 m) or larger. They can be installed in conjunction with Delta's popular MP5000 portable barricade to fill in any gaps to protect people and critical infrastructures at public events. The combination of the portable barriers with the new portable bollards provides fast controlled vehicle access without the time and labor of installation.

The TB150 marks a new standard in crowd protection containing and stopping 1.2 million foot pounds of attacking truck. The portable bollard array requires no foundation or site preparation and can be used for permanent or temporary vehicle control. The bollards can be set up on any stable surface such as concrete, asphalt, compacted soil or vegetation. No other installation procedures, excavations or sub-surface preparations are required.



# Installation in Less than 2 Hours

<b>DSC1100</b>	K8
<b>DSC900</b>	K4
<b>IP500</b>	K4/L2

## **Delta DSC1100** K8 Crash-Rated Special Event Barricades

The patented DSC1100 portable barrier provides security against vehicle-based terrorism or thefts for high-cycle locations such as the entrances to large office facilities, government agencies and military bases.

Able to be deployed in high traffic locations for full manual or automatic operation within two hours, a phalanx-type rising plate barrier is mounted within multiple inertial pods. The plate barrier lies level to the ground letting vehicles pass and is raised or lowered into position utilizing a hydraulic cylinder driven by a Delta hydraulic power unit or manually operated. The hydraulic pumping unit can be sized to provide pass-through rates suitable for most inspection and identification station requirements.

The unfilled pods weigh less than 700 pounds (318 kg) and consist of a permanent steel housing back-filled with local concrete either on site or remotely. Each pod has fork-lift slots for moving and positioning. Pods can be moved using a small forklift, pallet jack, crane or handcart. They can be set on paved roads and driveways, undisturbed soil or any combination. No excavation or foundation is required. The portable system can be operated using any Delta hydraulic, pneumatic or manual system including fully automatic access or remote control by hard-wire or RF links.

Operating modes include full automatic, remote-hard line, remote-radio, card reader, key switch, Battery Powered H4050 Pump or by local guard push button station and by other means or by combinations.



## **Delta DSC900** K4 Quick Deployment Portable Barricade

The patented DSC900 high security portable barricade provides security against vehicle-based terrorism or thefts for high-cycle locations such as the entrances to large office facilities, government agencies and military bases. Able to be deployed in high traffic locations for full manual or automatic operation within two hours, Delta's quick deployment modular DSC900 portable barricade features a phalanx-type rising plate barrier mounted within multiple inertial pods.

The plate barrier lies level to the ground to allow vehicles to pass and is raised or lowered into position, utilizing a hydraulic cylinder driven by Delta hydraulic power unit or utilizing manual operation. The hydraulic pumping unit can be sized to provide pass-through rates suitable for most inspection and identification station requirements.

The unfilled pods weigh less than 700 pounds (318 kg) and consist of a permanent steel housing back-filled with concrete either on site or remotely. Each pod has fork-lift slots for moving and positioning. Pods can be moved using a small forklift, pallet jack, crane or handcart. They can be set on paved roads and driveways, undisturbed soil or any combination. No excavation or foundation is required. The portable system can be operated using any Delta hydraulic, pneumatic or manual system including fully automatic access or remote control by hard wire or RF links.

Operating modes include full automatic, remote-hard line, remote-radio, card reader, key switch, battery powered H4050 pump or by local guard push-button station, and by other means—or by combinations thereof.

## **Delta IP500** Quick Deployment Drop Arm Barrier

Able to be deployed or relocated for full manual or automatic operation within two hours, Delta's quick deployment drop arm barrier will stop and destroy a 15,000 pound (6,800 kg) truck traveling at 30 mph (48 km/h) in an up to 20 foot (6 m) opening. It secures an entrance roadway 8 to 15 feet in width from vehicle attack. Hydraulic and manual versions are available. Pods are filled with cement once placed. A forklift quickly picks them up and makes this special event barricade movable and reusable. The IP500 is U.S. State Department certified.





# Vehicles are now Weapons



The use of vehicles as tools of destruction have become one of the top security concerns for public spaces. This tactic has grown popular regardless of ideology and is especially alarming when coupled with cars' accessibility. With vehicles increasingly being used as the weapons of choice for "lone wolf" acts of terror, the debate over how to protect vulnerable bodies has turned to design measures security professionals should take.

## Protection in 15 Minutes

To stop attacks, security professionals need to be cognizant of two different types of temporary vehicle access points. The first is in a location where the primary use is pedestrian but, frequently, vehicles need to pass through - a square in which the maintenance truck comes through to clean the square periodically. Other areas could be those locations with restricted parking.

The other access points are those that are even more temporary. At a health fair, traffic may need rerouting. Parking for the football game, an opening ceremony for a new wing, freshman matriculation day and major speeches are all temporary events needing only the temporary solution of portable, towable barriers.



## Protection in 2 Hours

Providing security against vehicle-based terrorism or thefts for high-cycle locations such as the entrances to large office facilities, government agencies and military bases, Delta's easy to install, temporary, unfilled pod barriers block entrances to facilities or roads to structures where there are not setbacks.

No excavation or foundation is required for the portable barrier's support buttresses. They can be set on concrete or asphalt paving, undisturbed soil or any combination. Since the unfilled buttresses, or pods, weigh less than 700 pounds (318 kg), they and the other modular sections are easily moved with a small forklift, pallet jack or handcart. Forklift slots also facilitate moving and positioning of the pods. Assembled in only two hours, the buttresses are then filled with concrete, sand or other materials.





## Easier Purchasing

From a purchasing standpoint, it can be easier to buy portable barricades than permanent solutions which are oftentimes placed into an organization's real assets budget because they are permanently installed into the ground, becoming part of the property. Such budgets can often create complex purchasing scenarios for safety departments. However, purchasing portable beam barricades is no different than buying protective vests for personnel or new sets of wrenches for the maintenance department.

For one time uses, a lease plan has been created where organizations can simply lease the portable barriers, use them, pack them up and return them. Delta always keeps an inventory for purchase and quick delivery at their manufacturing facility in Palmdale, Calif. That's because, in many cases, they are needed for events that come up quickly, such as emergency road or bridge construction or unexpected parking lot requirements.



Delta Scientific Corporation is the leading worldwide manufacturer of vehicle access control equipment with over 260,000 square feet of production facilities in Palmdale, CA. Delta's three product lines consist of high-security vehicle barricade systems, parking control equipment and guard booths.

**Contact us today.**

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