

Portable Crash Barriers

4 models / 2 versions—
Hundreds in use throughout the world

MP5000—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 & disable a 15,000 lb (66.7 kN) G.V.W. vehicle moving at 40 mph (64 kph)



DSC1000—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 ... stops a 5,000 lb (2300 kg) vehicle going 40 mph (64 kph)

| MODEL | LENGTH | RATINGS |
|----------------|-------------------|--|
| MP5000 | 20 feet (16.10 m) | ASTM M40 (DOS K8 equivalent) |
| MP5000 | 16 feet (4.88 m) | ASTM M30/P3-ASTM M40 (DOS K4/K8 equivalent) |
| MP5000 | 12 feet (3.66 m) | DOS K4/L1 |
| DSC1000 | 12 feet (3.66 m) | ASTM P40 |



The MP5000 was built for U.S. Federal government security specialists wanting a system that could be rapidly deployed and operated as a regular security gate or barrier system.

Demonstrated in a full-scale crash test—stops & disables a 15,000 lb G.V.W. (66.7 kN) vehicle moving at 40 mph (64 kph).

Following the certification test, the system was fully functional and sustained only minor distortion of the barrier ramp (approximately .75 inches).



Created to be quickly deployed to secure roadways and provide positive control of authorized traffic and stop & destroy an attacking vehicle

Once positioned, the Delta mobile barricade is separated from its transporter and lowered into position by means of a Battery-Operated Hydraulic Power System, which is then used to raise or lower the barrier for normal or emergency tasks.

The controls to run the barrier can be located on the barrier, at a fixed secure post, or from a hand-held push button controller. The guard need not go to the barrier to raise or lower it from its guard position.

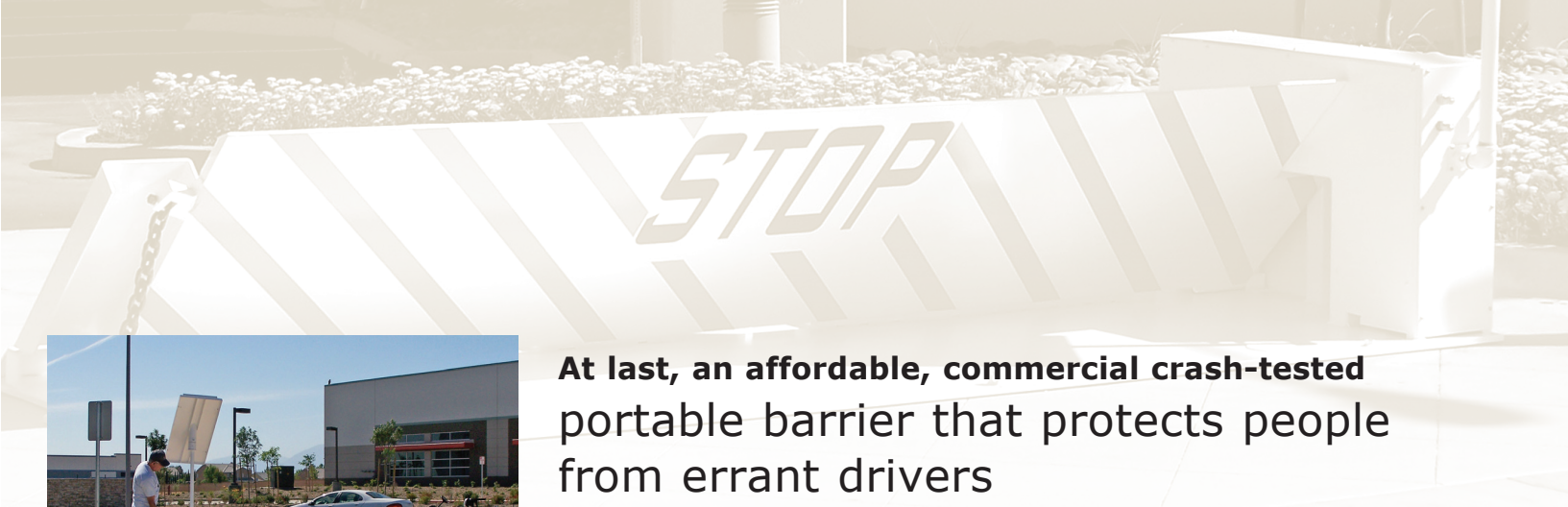
**Start installation at 9:00...
have protection at 9:15!**



Within 15 minutes of being sited, the Delta mobile crash barrier lowers itself into position with built-in hydraulic jacks. There is no hand cranking. Wheels are stored at the sides and then the vehicle ramps are folded out, 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 available recharging methods employed.



At last, an affordable, commercial crash-tested portable barrier that protects people from errant drivers

The DSC1000 is the commercial extension of the MP5000. Many municipalities, event organizers and others that stage temporary events, ranging from farmers’ markets to concerts and sporting events, have requested a commercial barrier that can be towed into place and protect attendees from errant drivers. Using Delta’s Soft Stop technology, the DSC1000 stops such drivers from inflicting harm.

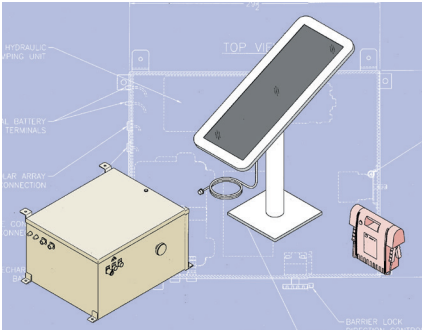
With no foundation or electrical hook-up needed, two people can set up and take down the DSC1000 barrier in minutes. The barricade’s self-contained power system provides all the power necessary to raise and lower the unit onto its trailer and open and close the barrier. This battery-powered system re-charges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

In many cases, the tragedies that the DSC1000 will negate are accidents. 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.



MP5000 Battery-Powered Hydraulic Barricade Operator

Filling the gap between low-duty cycle manually-operated and high-duty cycle systems, the MP5000 incorporates a heavy-duty rechargeable internal battery, charger, solar panel and rechargeable, portable booster battery pack. It provides up to 200 cycles per day of powered operation, up to 40 cycles in a one-hour period on direct battery. On trickle charge, it handles 1,000 cycles a day. It’s perfect for rapidly upgrading manually operated systems. Recharging options for most duty and operating rates are available.



DSC1000 Summary Features

- Fully portable system—highway rated—throughput rate of 4 vehicles per minute
- Controls a standard 12 ft (3.65 m) lane with single buttress design
- Right or left hand versions available
- Operates locally or remotely with hand-held control module on a plug-in umbilical cord
- No excavation or sub-surface preparation required
- Crash tested & certified, U.S. Department of State
- Significantly less costly than manually deployed units
- All hydraulic operation
- Deployment, retrieval & operation—manually deployable in total power outage
- Built-in vehicle ramps
- Quiet operation
- Battery, when fully charged, operates for up to 400 cycles. Can be supplemented with:
 - Any 12V automobile battery with standard internal battery connections
 - Solar array
 - Battery booster packs
 - Internal battery charger—standard—takes 110V input
 - Special jumper cable
 - Recharge from power outlet on auto or truck cigarette lighter plug
 - 12VDC external source, such as engine generator



MP5000 Summary Features

- Portable system:
 - Fully highway rated transporter system
 - G.V.W. less than 14,000 lbs
 - Doesn't require Class 'A' Driver's license
- Operated locally or remotely so guards not exposed to hostile attack
- Crash tested & certified, U.S. Department of State
- All hydraulic operation
- Deployment, retrieval & operation—manually deployable in total power outage
- Vehicle Identification Number: National Transportation Safety Board VIN 1D9BU20233C503
- Battery can be supplemented with:
 - Any 12V auto battery with standard internal connections
 - Solar array
 - Battery booster packs, charged elsewhere, have built-in battery charger, indicator of status and plug directly into HPU; will run the barrier 50 cycles on a single charge
 - Internal Battery Charger—standard
 - Special jumper cable
 - Recharge from power outlet on auto or truck cigarette lighter plug
 - 12VDC external source, such as engine generator
- Designed to adapt to many road conditions without screw jacks or shims
- Quiet Operation
- Galvanized, if desired
- Attractive appearance



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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