

# Maximum Security RoadBlade System

RB 4300

A rise in terrorist threats against chemical plants, government facilities, intermodals, ports, and more has resulted in an increased demand for adequate physical security products that are reliable, durable, and efficient. The RoadBlade tyre shredding system prevents unauthorised vehicles from entering restricted locations. The RoadBlade slices each tyre on the targeted vehicle, stopping them from proceeding into controlled areas.

The Maximum Security RoadBlade is a complete package that includes everything you need to use in both portable or permanent applications. It is ideal for facilities that are planning changes to their access roads or will frequently change the location of the system. The system provides the integration of a permanent unit but with the mobility of a portable unit.

The Maximum Security RoadBlade can provide understaffed locations additional security at their perimeter. While the blades are active, the RoadBlade provides personnel with additional time to verify identification or perform a vehicle check. Should a vehicle attempt to flee the RoadBlade will stop it by slicing 3 to 4 7.62 cm gashes in all four tyres. The retractable blades will defend against traffic approaching in either direction.

## RoadBlade International



### » Maximum Security RoadBlade Package

#### Contains:

1 - Actuator box , 1 - Daisy chain cable , 1 - Logic box , 1 - Control connection cable , 1 - Power cable , 7 - 50.8 cm modules , 1 - Portable power supply , 1 - DC neoprene power cable , 1 - AC neoprene power cable , 1 - 4 Button pendant control , 4 - MIL-SPEC cases (63.5cm x 50.8cm x 30.48cm)

The Maximum Security RoadBlade system has a standard length of 3.66 meters and can be extended to a maximum of 7.62 meters, per control box. Traction spikes attach to the underside of each module to keep the system in place on dirt or asphalt surfaces. If deployed on concrete surfaces bolting the system to the concrete is required. The Maximum system is designed to handle heavy traffic loads. Multiple systems can be integrated to operate as one by using the daisy chain cable and remote logic box. The Maximum system is unique because it was designed for both permanent and portable deployments. Remove the traction spikes and it can be anchored to the road surface and left in place for extended periods of time.



### » Benefits & Features

- The logic box **removes the electronics from the ground** and can integrate multiple systems together.
- Features **both AC and DC power options**, enabling the system to be deployed under any conditions.
- The daisy chain cable **connects multiple Maximum Security RoadBlade systems** together.

# Maximum Security RoadBlade system Technical Specifications

## » *Electronics*

- Power requirement: 120 Volts 3 Amps per system, 240 Volts 2 Amps per system
- 12 Volt DC battery back-up, standard for each system, is capable of over 6,000 operations on a full charge.
- Battery housing has flanges to provide capability to mount to a wall or pole.
- Control cable wire - 7 strand 18 gauge with an outside diameter total of 1.3 cm.
- Power cable wire - 3 strand 12 gauge with an outside diameter total of 1.1 cm.
- System can be run off of either AC or DC power.
- MIL SPEC plugs are used to connect cables to the system.

## » *Logic Box*

- Housing contains flanges to allow capability to mount the box to either a wall or pole.
- Sealed lid to prevent unauthorized users from tampering with the box.
- Contains clearly marked MIL-SPEC plugs for proper connections
- Enables integration with other manufacturers security systems to allow both systems to operate in unison.
- Removes the electrical components from the actuator box, enabling the actuator box to be placed in standing or running water without harm to the RoadBlade system.
- Sealed to a NEMA 4 equivalent rating.
- Daisy chain cable connects two logic boxes together to allow one operator to operate two separate systems at the same time.
- Capable of sending verification up and down to other systems, such as computers.



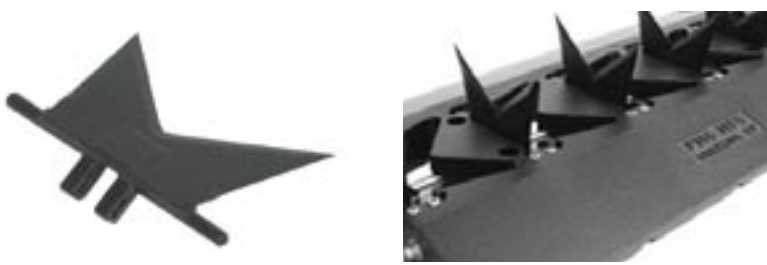
## » *Individual Module*

- Individual modules are 50.8 cm long, 29.53 cm wide, and 3.18 cm high.
- Each module contains five individual retractable stainless steel blades.
- Each module contains four 1.91 cm mounting holes.
- Each module has two 1.91 cm locking connections to connect to the next module.
- Each module is able to withstand over 52 tons of direct pressure when placed on a flat surface.
- Modules are powder coated per customers request; black color is standard when no request is made.
- Module casting material is comprised of 356 T51 Aluminum, weighing 17 pounds.
- The underside of each module has 5 tunnels to allow dirt and water to wash out from underneath.
- Connecting .625 cm ball screws are stainless steel.



## » Individual Blade

- Blade height is 6.99 cm; width is 9.84 cm.
- Mounted to the module using two 2.86 cm mounting plates and four screws to lock the blades in.
- When retracted, the blades sit recessed in the module to allow vehicles to pass over unharmed.
- When active, the blades are spaced 10.16 cm apart.
- While activated, vehicles will not be able to pass over the system in either direction without severe tire damage.
- Blades are field serviceable and replaceable.
- Each blade has 4 separate angles for insertion into tires; two outside angles 77 are degrees, and the two inside angles are 48.5 degrees.
- Comprised of 17-4PH Stainless Steel, CB7Cu1, ASTM A747.
- Solution annealed and aged (H925 condition) to a hardness of RC38 Min.
- Measurement of connecting ears to shaft require a distance of 2.28 - 2.33 cm.
- Finish of blades are 125 RMS.
- Blades are power coated per customers request; black color is standard when no request is made.
- Center shafts connecting the blades are comprised of stainless steel.



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