

# X-Marker

## Airport Runway Closure Signal





- Distribution of lights prevents “fireball” effect in the center
- 20 sealed-beam amber lights provide high visibility at night and in adverse weather
- 12 sealed-beam white lights are bright enough for daytime use
- Extremely portable, can be towed by most vehicles
- Can be towed one at a time or in tandem
- Rapid deployment and easy setup
- Vertical or horizontal coverage
- Two independent power circuits to increase reliability
- Lockable control box and engine cage
- Lombardini air-cooled diesel engine with 30-gallon fuel tank
- Up to 176 hours of continuous operation

The Wanco X-Marker Airport Runway Closure Signal efficiently and effectively warns pilots of closed airport runways and taxiways, and protects maintenance crews working in these areas.

Proven technology, the X-Marker has been successfully tested at a major international airport, and is in extensive use at airports today.

The U.S. Federal Aviation Administration (FAA) notes that aircraft have been known to land on runways that were closed, temporarily, for maintenance or snow removal operations.

The likelihood of unintended landings, according to the FAA, increases during periods of reduced visibility and, at night, whenever runway lighting must be on for electrical maintenance or snow removal.

A lighted visual aid for indicating runway closure is intended to eliminate ambiguity concerning the status of the runway, and to reduce instances of aircraft landing on temporarily closed runways.

The X-Marker is suitable for day, night, and adverse weather conditions. Its size and shape recognition are extraordinary, and its ease of deployment is exceptional.

Two 27-foot arms form the X-Marker’s “X” shape. Each arm has two styles of lights to meet conditions on the runway. The white spot lights are for daytime operations, while the amber lights are for nighttime and adverse weather conditions. The flashing rate is adjustable. The “X” frame assembly can pivot from horizontal to completely vertical and beyond, with up to 105 degrees of rotation.

The large X-Marker “X” is distinguishable from other lighted visual devices used on airports. Pilots can see the bright flashing lights on the runway from 3 to 6 miles away, depending on environmental conditions. Pilots can distinguish the flashing light as an “X” at 2 miles, which provides ample opportunity to execute a safe missed approach.



## Specifications

### Dimensions — feet (m)

Traveling length, single	26.5 (8.08)
Traveling length, tandem	42.5 (12.95)
Traveling height	12.5 (3.81)
Trailer width	8.0 (2.44)
Operating height	21.0 (6.40)
Arm length	27.0 (8.23)
X-shape (square), deployed	19.1 (5.82)

### Construction

Frame	MIG-welded steel tubing
Coating	Powder-coated and oven-baked
Axle assembly	2000-lb. capacity Idler hub, 5 on 4.5-inch BC Double eye leaf springs
Tires	P205/75 D15 steel belted trailer tires, load rating C
Standard tow hitch	2-inch ball coupler SAE, Class 2, 3500-lb. capacity

### Lights, amber

Lamp type	Sealed beam with screw terminals PAR 36
Voltage	12.8 V dc
Candle power	26,000
Initial lumens	2068
Beam spread	11.0 degrees horizontal, 4.0 degrees vertical
Configuration	6 lights per section, 5 front and 1 rear 10 lights per arm, 20 lights total

### Lights, white

Lamp type	Sealed beam with screw terminals PAR 46
Voltage	12.8 V dc
Wattage	50 W or 100 W
Candle power	160,000
Initial lumens	12,729
Beam spread	6.5 degrees horizontal, 4.0 degrees vertical
Configuration	3 lights per section, all on front side 6 lights per arm, 12 lights total

### Power system

Diesel engine	Lombardini 6LD-360 6 HP @ 2800 RPM (actual speed) 3-qt. deep oil sump
Fuel tank	Transparent polyethylene, 30-gallon capacity
Fuel consumption	Approx. 1 gallon per 8 hours of use
Battery	12 V dc
Battery capacity	Group 24, 450 CCA

### Deployment

Stability outriggers	Telescoping design, 123-inch (3.12 m) span at full extension
Arm-frame adjustability	105% total pivot angle, adjustable in 5-degree increments
Hand-winch	1500-lb. capacity, friction safety brake, 1/4-inch galvanized 7x19 aircraft cable
Spring tilt	Leaf spring tilts arm-frame assembly off vertical position

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