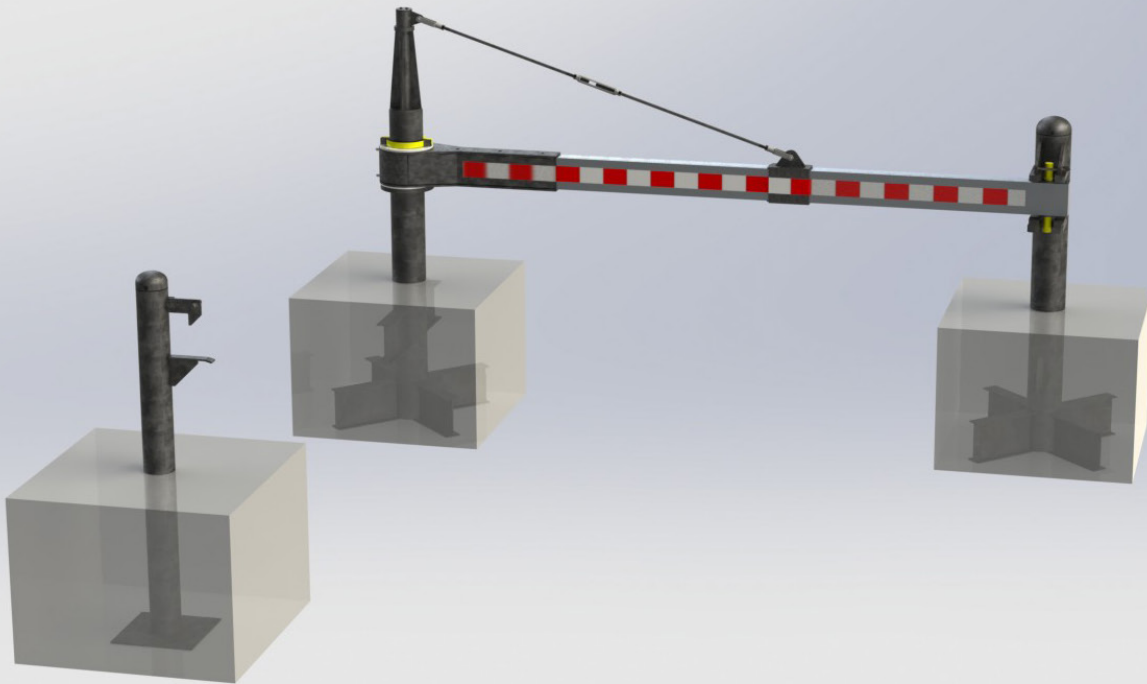


## NMSB XII-HOR

### Horizontal K12/K8/K4 Swinging Crash Beam



The Nasatka Maximum Security Barrier NMSB XII-HOR (pronounced 12 horizontal) swing crash beam barrier is available as an engineer rated M50 (K12 equivalent) or NMSB XII-A1-HOR engineer rated K4 security solution. The NMSB XII-HOR is ideal for high or medium security access control scenarios with low to medium vehicle traffic. The NMSB XII-HOR is perfect for cities and sites that require minimal excavation. The NMSB XII-HOR seamlessly installs on entrances up to 32 feet (9.75 m) of clear opening, making it a much more cost effective solution compared to multiple bollards or wedges. The NMSB XII-HOR also overcomes harsh terrain issues, snowplows, weight restrictions, and other roadway obstacles. The NMSB XII-HOR is engineer rated M50. The NMSB XII-A1-HOR is engineer rated K4/L3.

Nasatka's engineer rated crash beams are typically used for entry/exit control points at military and civilian government installations,

nuclear power plants, chemical plants and other high security facilities where the threat of vehicle-borne improvised explosive devices (IED) is an every-day reality.

The NMSB XII-A1-HOR has a top of crash beam height of 34 inches (863 mm)  $\pm$  1 inch, and beam construction of U.S. ASTM B-317, 6061-T6 aluminum with a yield strength of 25 ksi. The NMSB XII-HOR features hot-dipped galvanized steel frames. The NMSB XII-HOR crash beam offer manual operation and an optional electric-hydraulic operator. The optional, self-contained, remote electric-hydraulic power unit provides typical cycle time of 10 to 30 seconds depending on the crash beam length. The NMSB XII-HOR crash beam provides horizontal swinging open/close, as well as custom sizes and multiple configurations are available. The crash beam provides manual only operation for locations where power is not available or manual override for electric-hydraulic powered locations in the event of a failure.

## Features

- **Available in Multiple Security Ratings:**
  - Engineer Rated M50/P1 (equivalent to K12/L3) [NMSB XII-HOR]
  - Engineer Rated K4/L3 [NMSB XII-A1-HOR]
- Multiple Operators – Electrico-Hydraulic or Manual Operation
- Cycles in 10 – 30 Seconds (Manually in 4 – 10 s)
- Horizontal Swing
- M50 (K12)/K4 Security for Less Cost Than a Bollard or Wedge System

## Benefits

- Capable of Securing Clear Openings Up to 32 Feet (9.75 m)
- Works as Stand-Alone System or With Other K12 Barriers
- Ideal for Manual Traffic Control

## Specifications

### ENGINEER RATING

- Engineer Rated M50 (15,000 lb/6810 kg at 50 mph/80 kph) / P1 penetration ≤ 3.3 ft (1 m)
- Engineer Rated K4 (15,000 lb/6810 kg at 30 mph/50 kph) / L3 penetration ≤ 3 ft (1 m)

### IMPACT ENERGY

- M50 = 1,250 ft-kips/1,680 kJ
- K4 = 550 ft-kips/610 kJ

### BEAM MATERIAL

- U.S. ASTM B-317, 6061-T6; Yield Strength: 25 ksi

### BARRIER MATERIAL

- All other materials are A36 structural grade steel

### BEAM HEIGHT

- 34 inches (863 mm) +/- 1in. grade to top of beam at center of span
- 30 inches (762mm) +/- 1in. grade to center of beam at center of span

### POWER REQUIREMENTS

- 208, 230, or 460 (1 or 3 Phase), 50/60 Hz

### CYCLE TIME

- Normal open time is approximately 4-10 seconds

- Normal operating times for electric-hydraulic operator depend on clear opening size and operational speed setting (10-30 s typical).

### OPERATORS

- Electric-Hydraulic operator
- Manual

### FINISHES

- All of the steel barrier components are hot dipped galvanized.
- Beam is Aluminum with Red and White reflective stripes.

### OPERATING MODES

- **Normal:** Barrier opens and closes at normal speeds. Barrier is electric-hydraulic operated and commands are received via operator input or automation sequence initiation.
- **Emergency:** Barrier closes to secure position. Barrier retains position until commands are received via operator input.
- **Manual:** Open and close barrier by hand after manual release of operator.

### SYSTEM CONTROLLER

- As an option, a secure, 128-bit AES encrypted communications capable, standard-based end-to-end architecture, utilizing a real time active vehicle barrier micro-processor to control all input and output, data logging, device enrollment and validation.

### CONTROL PANEL

- Standard push button controls
- Optional controller with standard menu uses a 5.7 inches (144.78 mm) color touchscreen.
- Custom user interface running on 8, 10, 12, or 17-inch (203.2, 254.0, 304.8, or 431.8 mm) touchscreens (with optional background site map).

### WARRANTY

- One Year
- Optional second and third year warranties available

BARRIER DETAILS (P/N)	OPENING (Ft.)	WEIGHT (Lbs.)	FOUNDATION (L-W-D)	NOTES
<b>K12</b>				
1133-1201-0000 1133-1203-0000	12	6,100	6 - 4 - 3 (Pivot & Rcvr) 4 - 4 - 3 (Stop)	Manual Electric-Hydraulic
1133-1401-0000 1133-1403-0000	14	6,800	6 - 4 - 3 (Pivot & Rcvr) 4 - 4 - 3 (Stop)	Manual Electric-Hydraulic
1133-1601-0000 1133-1603-0000	16	7,600	6 - 4 - 3 (Pivot & Rcvr) 4 - 4 - 3 (Stop)	Manual Electric-Hydraulic
1133-1801-0000 1133-1803-0000	18	8,500	6 - 4 - 3 (Pivot & Rcvr) 4 - 4 - 3 (Stop)	Manual Electric-Hydraulic
1133-2001-0000 1133-2003-0000	20	9,200	6 - 4 - 3 (Pivot & Rcvr) 4 - 4 - 3 (Stop)	Manual Electric-Hydraulic
1133-2201-0000 1133-2203-0000	22	10,100	6 - 4 - 3 (Pivot & Rcvr) 4 - 4 - 3 (Stop)	Manual Electric-Hydraulic
1133-2401-0000 1133-2403-0000	24	11,100	6 - 4 - 3 (Pivot & Rcvr) 4 - 4 - 3 (Stop)	Manual Electric-Hydraulic
1133-2601-0000 1133-2603-0000	26	12,000	6 - 4 - 3 (Pivot & Rcvr) 4 - 4 - 3 (Stop)	Manual Electric-Hydraulic
1133-2801-0000 1133-2803-0000	28	13,100	6 - 4 - 3 (Pivot & Rcvr) 4 - 4 - 3 (Stop)	Manual Electric-Hydraulic
1133-3001-0000 1133-3003-0000	30	14,200	6 - 4 - 3 (Pivot & Rcvr) 4 - 4 - 3 (Stop)	Manual Electric-Hydraulic
1133-3201-0000 1133-3203-0000	32	15,300	6 - 4 - 3 (Pivot & Rcvr) 4 - 4 - 3 (Stop)	Manual Electric-Hydraulic
<b>K4</b>				
1133-1201-0000 1133-1203-0000	12	6,100	4 - 4 - 4 (Pivot, Stop & Rcvr)	Manual Electric-Hydraulic
1133-1401-0000 1133-1403-0000	14	6,800	4 - 4 - 4 (Pivot, Stop & Rcvr)	Manual Electric-Hydraulic
1133-1601-0000 1133-1603-0000	16	7,600	4 - 4 - 4 (Pivot, Stop & Rcvr)	Manual Electric-Hydraulic
1133-1801-0000 1133-1803-0000	18	8,500	4 - 4 - 4 (Pivot, Stop & Rcvr)	Manual Electric-Hydraulic
1133-2001-0000 1133-2003-0000	20	9,200	4 - 4 - 4 (Pivot, Stop & Rcvr)	Manual Electric-Hydraulic
1133-2201-0000 1133-2203-0000	22	10,100	4 - 4 - 4 (Pivot, Stop & Rcvr)	Manual Electric-Hydraulic
1133-2401-0000 1133-2403-0000	24	11,100	4 - 4 - 4 (Pivot, Stop & Rcvr)	Manual Electric-Hydraulic
1133-2601-0000 1133-2603-0000	26	12,000	4 - 4 - 4 (Pivot, Stop & Rcvr)	Manual Electric-Hydraulic
1133-2801-0000 1133-2803-0000	28	13,100	4 - 4 - 4 (Pivot, Stop & Rcvr)	Manual Electric-Hydraulic
1133-3001-0000 1133-3003-0000	30	14,200	4 - 4 - 4 (Pivot, Stop & Rcvr)	Manual Electric-Hydraulic
1133-3201-0000 1133-3203-0000	32	15,300	4 - 4 - 4 (Pivot, Stop & Rcvr)	Manual Electric-Hydraulic