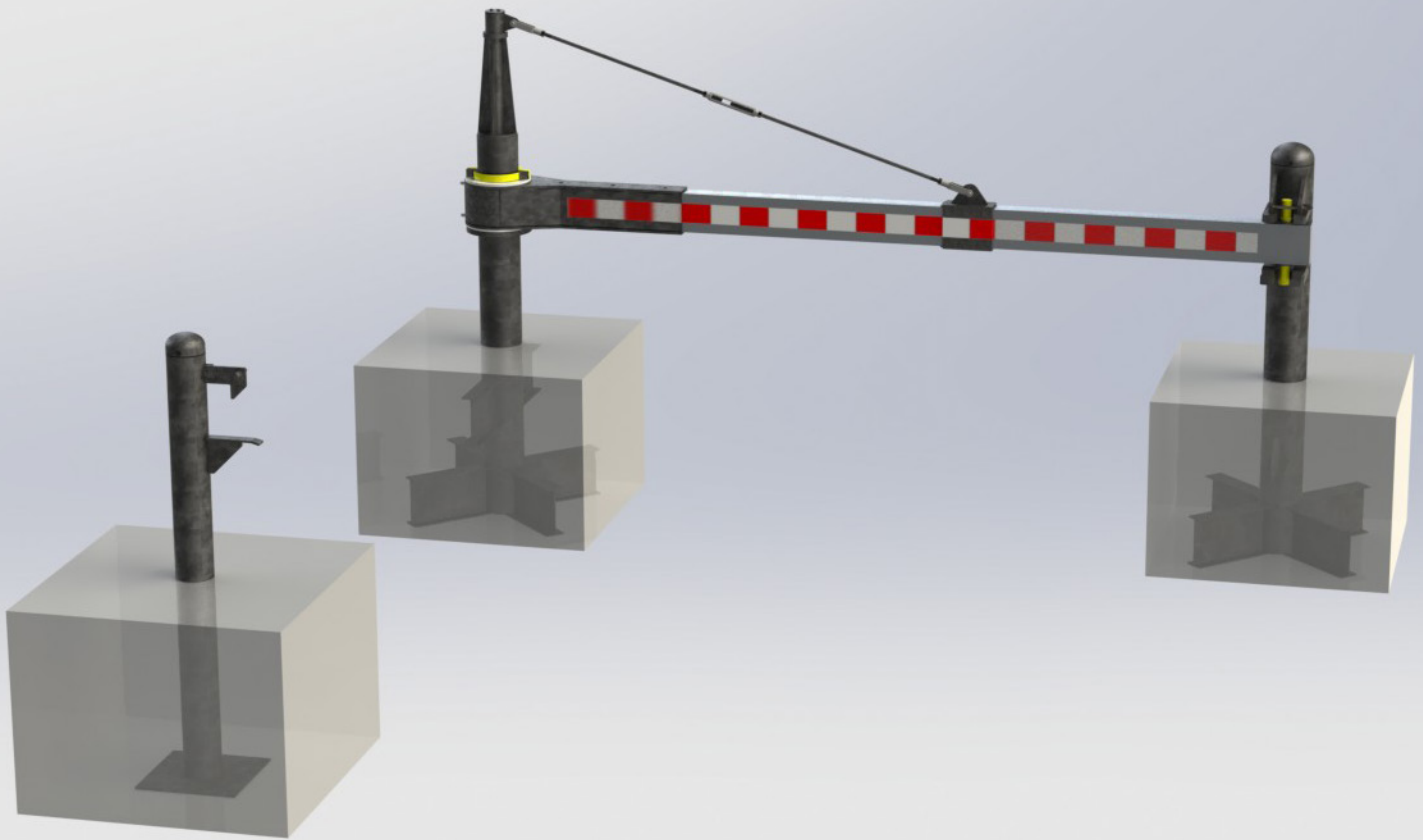


## NMSB XII-Horizontal Swing Crash Beam



The Nasatka Maximum Security Barrier (NMSB XII) (pronounced 12) horizontal swing crash beam barrier (NMSB XII-HOR) is available as an engineer rated M50 (K12 equivalent) or K4 (M30 equivalent) (NMSB XII-A1-HOR) security solution. The NMSB XII series is ideal for high or medium security access control scenarios with low to medium vehicle traffic. The NMSB XII series is perfect for cities and sites that require minimal excavation. The NMSB XII series 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 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/L3.0 (M30/P1 equivalent).

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 series has a crash beam height of 35 inches (889 mm), hot-dipped galvanized steel, features an optional, self-contained, attached housing unit, and standard cycle time is 4-10 seconds depending on the crash beam length and operator type. The NMSB XII series crash beams offer manual operation and an all-electric operator. The NMSB XII crash beam series provides horizontal swinging open/close, as well as custom sizes and configurations are available. The crash beam provides manual operation when electric power is out or a manually operated only crash beam solution for locations where power is not available.

## Features

- **Available in Multiple Security Ratings:**
  - Engineer Rated M50/P1 (equivalent to K12/L3.0) [NMSB-XII-HOR]
  - Engineer Rated K4/L3.0 (equivalent to M30/P1) [NMSB-XII-A1-HOR]
- Multiple Operators – Electric or Manual Operation
- Cycles in 10 – 15 Seconds (Manually in 4 – 10 s)
- Horizontal Swing
- M50 (K12)/K4 (M30) 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  $\leq$  3.3 ft (1 m)
- Engineer Rated K4 (15,000 lb/6810 kg at 30 mph/50 kph) / L3.0 penetration  $\leq$  3 ft (1 m)

### IMPACT ENERGY

- M50 = 1,253 ft-kips/1,699 kJ
- K4 = 611 ft-kips/451 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

- 35 inches (889 mm) grade to top of beam at center of span
- Power Requirements
- 120, 208, or 230 (1 or 3 Phase), 50/60 Hz

### CYCLE TIME

- Normal open time is approximately 4-10 seconds
- Normal operating conditions depend on clear opening size and operational speed setting

### OPERATORS

- All-electric operator with integrated EPU (electric power unit)
- Manual
- Default Position Customer Selectable as:
  - Unsecure (Open)
  - Secured (Closed)

### 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. Operator is controlled electrically or hydraulically and commands are received via operator input or automation sequence initiation.
- **Emergency:** Barrier closes to secure position. Operator retains position until commands are received via operator input.
- **Manual:** Open and close barrier by hand after manual release of operator.

### SYSTEM CONTROLLER

- Uses 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 with multiple modes of operation.
- Standard menu uses a 5.7-inch (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
- operation failure in ordinary use and defects faulty material or workmanship

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