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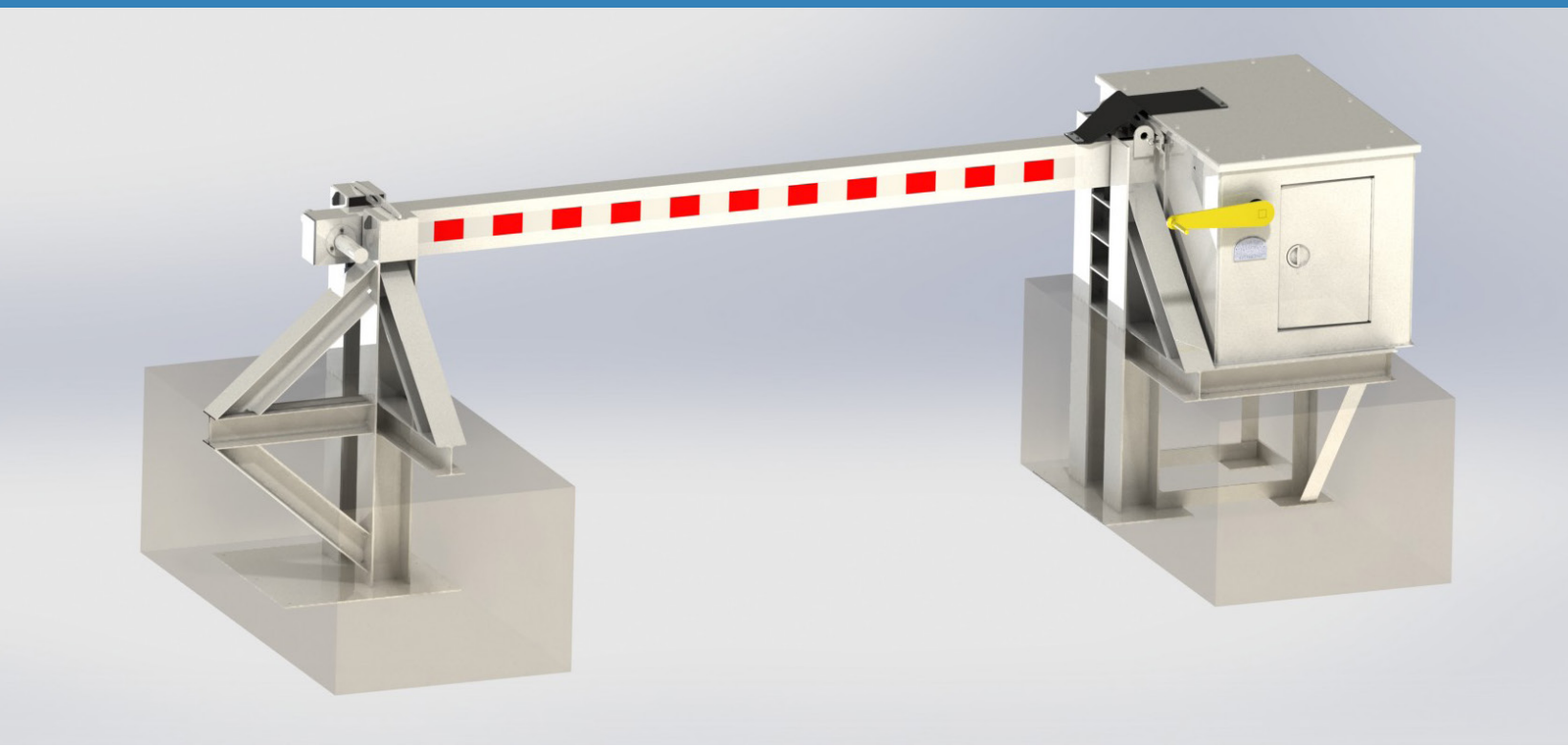
Global Lines of Defense®
301-868-0300

NMSB XII

K12/K8/K4 Vertical Crash Beam



The Nasatka Maximum Security Barrier NMSB XII (pronounced 12) crash beam barrier is available in a DOS K12, engineer rated K12 or engineer rated K4 range of security solutions. The NMSB XII series is ideal for high to 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 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, and other roadway obstacles. The NMSB XII is DOS K12 crash rated and engineer rated K12/K4 versions are also available. The engineer rated K4 version is referred to by a model designation of NMSB XII-A1.

Nasatka's K-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 crash beam series has a height of 35 inches (889 mm), hot-dipped galvanized steel, features a self-contained, attached housing unit, and standard cycle time is 8-15 seconds depending on the crash beam length and operator type. The NMSB XII crash beam series offers all-electric or electro-hydraulic operators. The NMSB XII crash beam provides vertical pivot open/close options, as well as custom sizes and configurations are available. The crash beam uses a built-in counterweight system allowing manual operation when power is out or not available.

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Features

- **Green:**
  - Available Electric Operator - Integrated Electric Actuator
  - Hydraulic Operator Uses Bio-degradable US Fish & Wildlife and EPA Compliant Fluid
- Multiple Operators – Electric, Hydraulic or Manual Operation
- Cycles in 8-15 Seconds
- Available in Multiple Security Ratings
- DOS K12/L3 (Equivalent to ASTM F2656-07 M50P1)
- Engineer Rated K12 (Equivalent to ASTM F2656-07 M50P1)
- Engineer Rated K4 (Equivalent to ASTM F2656-07 M30) [NMSB XII-A1]
- DOS K12 Security for Less Cost Than a Bollard or Wedge System

Benefits

- Crash Tested and Engineer Rated Models
- 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 Using a Balance of Power and Counterweights

Specifications

CRASH RATING
- DOS K12/L3 – 15,000 lb (6810 kg) at 50 mph (80 kph)/L3 (≤ 3.3 ft/1 m) up to 18 feet (m) clear openings
- Engineer Rated K12 – 15,000 lb (6810 kg) at 50 mph (80 kph) up to 25 feet (7.62 m) clear openings
- K4 – 15,000 lb (6810 kg) at 30 mph (50 kph) up to 32 feet (9.75 m) clear openings

IMPACT ENERGY
- K12 = 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
- Battery option (24 VDC)

CYCLE TIME
- Normal open time is approximately 8-15 seconds
- Normal operating conditions depend on clear opening size and operational speed setting

OPERATORS
- Electric operator with integrated EPU (electric power unit)
- Hydraulic operator with integrated HPU (hydraulic power unit)
- Manual (capability provided by counterweight design)

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 controlled electrically or hydraulically and commands are received via operator input or automation sequence initiation.
- **Emergency:** Barrier normal operation up/down buttons shall be inoperable until the EFO condition is reset.
- **Manual:** Open and close barrier via use of manual lever. (Requires manual release of the operator if barrier is equipped with an electric or a hydraulic 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
- Optional second and third year warranties available

BARRIER DETAILS (P/N)	OPENING (Ft.)	WEIGHT (Lbs.)	FOUNDATION (L-W-D)	NOTES
DOS K12				
1131-1201-0000 1131-1202-0000 1131-1203-0000	12	6,100	8 – 4 – 3	Manual HPU EPU
1131-1401-0000 1131-1402-0000 1131-1403-0000	14	6,800	8 – 4 – 3	Manual HPU EPU
1131-1601-0000 1131-1602-0000 1131-1603-0000	16	7,600	8 – 4 – 3	Manual HPU EPU
1131-1801-0000 1131-1802-0000 1131-1803-0000	18	8,500	8 – 4 – 3	Manual HPU EPU
Engineer Rated K12				
1131-2001-0000 1131-2002-0000 1131-2003-0000	20	9,200	8 – 4 – 3	Manual HPU EPU
1131-2201-0000 1131-2202-0000 1131-2203-0000	22	10,100	8 – 4 – 3	Manual HPU EPU
1131-2401-0000 1131-2402-0000 1131-2403-0000	24	11,100	8 – 4 – 3	Manual HPU EPU
K4				
1132-1201-0000 1132-1202-0000 1132-1203-0000	12	6,100	5 – 5 – 3	Manual HPU EPU
1132-1401-0000 1132-1402-0000 1132-1403-0000	14	6,800	5 – 5 – 3	Manual HPU EPU
1132-1601-0000 1132-1602-0000 1132-1603-0000	16	7,600	5 – 5 – 3	Manual HPU EPU
1132-1801-0000 1132-1802-0000 1132-1803-0000	18	8,500	5 – 5 – 3	Manual HPU EPU
1132-2001-0000 1132-2002-0000 1132-2003-0000	20	9,200	5 – 5 – 3	Manual HPU EPU
1132-2201-0000 1132-2202-0000 1132-2203-0000	22	10,100	5 – 5 – 3	Manual HPU EPU
1132-2401-0000 1132-2402-0000 1132-2403-0000	24	11,100	5 – 5 – 3	Manual HPU EPU
1132-2601-0000 1132-2602-0000 1132-2603-0000	26	12,000	5 – 5 – 3	Manual HPU EPU
1132-2801-0000 1132-2802-0000 1132-2803-0000	28	13,100	5 – 5 – 3	Manual HPU EPU
1132-3001-0000 1132-3002-0000 1132-3003-0000	30	14,200	5 – 5 – 3	Manual HPU EPU
1132-3201-0000 1132-3202-0000 1132-3203-0000	32	15,300	5 – 5 – 3	Manual HPU EPU