



REBAR CHAIN ASSEMBLY MARS00X



SPECIFICATIONS

Rebar Hook: Alloy Steel or Alloy Aluminum

Connector Hook: Alloy Steel

Chain: ¼ inch (6 mm) Zinc Plated Grade 30 Chain

Minimum Strength: 5,000lbs (22kN)

This product complies with all applicable OSHA Standards and ANSI A10.32– 2004

Instructions for Use

1. APPLICATION

1.1. Purpose:

The rebar chain assemblies are to be used as part of a work positioning system that holds and supports the user at a work location. Applications include concrete rebar assembly and steel erection.

1.2. Limitations

The following limitations must be considered before using this equipment:

1.2.1. Capacity:

Designed for use by one person with a combined weight (including tools, clothing, etc.) of no more than 310 pounds (140 kg)

1.2.2. Free Fall

The potential free fall must be limited to 2 feet (0.6 m).

1.2.3. Fall Clearance

Ensure there is adequate clearance around your fall path to prevent striking an object. The clearance required is dependent on the length and type of lanyard and anchorage location.

1.2.4. Personal Fall Arrest System

Safety Direct recommends the use of a personal fall arrest system with this equipment. The personal fall arrest system will protect the user if the work positioning system disengages from the anchorage point, or when detached from the work positioning system when moving from point to point.

1.2.5. Environmental Hazards:

Using this equipment in areas where environmental hazards are present may require additional precautions to reduce the possibility of injury to the user or damage to the equipment. Hazards may include, but are not limited to; high heat, severe cold, caustic chemicals, corrosive environments, high voltage power lines, explosive or toxic gases, moving machinery, or sharp edges.

1.2.6. Training:

This equipment is intended for use by persons trained in its correct application and use.

1.3. Applicable Standards ANSI Z359, ANSI A30.32.

2. REQUIREMENTS

2.1. Compatibility of Components and Subsystems

This equipment is designed for use with Safety Direct approved components and subsystems. Substitutions or replacements made with non-approved components or subsystems may be incompatible, and may jeopardize the safety and reliability of the complete system.

2.2. Compatibility of Connectors

Connectors are considered to be compatible with connecting elements when they have been designed to work together in such a way that their sizes and shapes do not cause their gate mechanisms to inadvertently open regardless of how they become oriented. Contact Safety Direct if you have any questions about compatibility. Connectors (hooks, carabiners, and D-rings) must be capable of supporting at least 5,000 lbs. (22.2 kN). Connectors must be compatible with the anchorage or other system components. Do not use equipment that is not compatible. Non-compatible connectors may unintentionally disengage. Connectors must be compatible in size, shape, and strength. Self locking snap hooks and carabiners are required by ANSI Z359.3, OSHA, and CSA Z259.

2.3. Anchorage Strength:

Anchorage selected for work positioning systems shall have a strength capable of sustaining static loads applied in the directions permitted by the system of at least: A) 3,000 pounds (13.3kN) for non-certified anchorages or B) Two times the foreseeable force for certified anchorages. When more than one work positioning system is attached

to an anchorage, the strengths previously set forth in (A) and (B) shall be multiplied by the number of systems attached to the anchorage.

2.4. Making Connections: Only use self-locking snap hooks and carabiners with this equipment. Only use connectors that are suitable to each application. Ensure all connections are compatible in size, shape and strength. Do not use equipment that is not compatible. Ensure all connections are fully closed and locked. Safety Direct connectors (snap hooks and carabiners) are designed to be used only as specified in each product's user's instructions.

Snap hooks and carabiners should not be connected:

- A) To a D-ring to which another connector is attached.
- B) In a manner that would result in a load on the gate.
- C) In a false engagement, where features that protrude from the snap hook or carabiner catch on the anchor and without visual confirmation seems to be fully engaged to the anchor point.
- D) To each other.
- E) Directly to webbing or rope lanyard or tie-back (unless the manufacturer's instructions for both the lanyard and connector specifically allows such a connection).
- F) To any object which is shaped or dimensioned such that the snap hook or carabiner will not close and lock, or that roll-out could occur.

3. USING THE EQUIPMENT

Before using this equipment, carefully inspect it according to steps listed

3.1. Plan your work positioning system before using this equipment.

Consider all factors that will affect your safety during use of this equipment.

Consider the following when planning your system:

- **Hazard Evaluation:**
Check the job site for all possible hazards. Ensure the intended path of the user is unobstructed.
- **Body Support:**
Safety Direct recommends the use of a full body harness with this equipment.
- **Back-Up Fall Protection:**
Safety Direct recommends the use of a personal fall arrest system with this equipment.
- **Rescue:**
The authorized person must have a rescue plan and the means at hand to implement it when using this equipment where a suspension could occur (as in the case where self-rescue is not possible following a fall).

3.2. Making Connections:

When using a hook to connect to an anchorage, ensure roll-out cannot occur. Roll-out occurs when interference between the hook and mating connector causes the hook gate to unintentionally open and release. Self-locking snap hooks and carabiners should be used to reduce the possibility of roll-out. Make sure all connectors close and lock and they do so automatically without manual assistance. Do not use hooks or connectors that will not completely close over the attachment object. Do not connect snap hooks or carabiners to each other.

3.3. Connecting the Rebar Chain Assembly to Body Support & Anchorage:

3.3.1. To the harness

Connect one leg of the rebar chain assembly to each side D-ring of your full body harness.

3.3.2. To the Anchorage:

Connect the snap hook or carabiner on the rebar chain assembly to the intersection of the horizontal and vertical rebar.

3.3.3. To the Personal Fall Arrest System:

Connect the personal fall arrest system to the dorsal back D-ring on your full body harness.

4. **TRAINING**

It is the responsibility of the user to assure they are familiar with these instructions, and are trained in the correct care and use of this equipment. User must also be aware of the operating characteristics, application limits, and the consequences of improper use of this equipment

5. **INSPECTION**

5.1. **Frequency:**

- 5.1.1. Before each use inspect according to steps listed in this manual. Remove equipment from service if it has been subjected to damage or has been subjected to a fall arrest force.
- 5.1.2. Annually: This equipment must be inspected according to steps listed in this manual by a competent person, other than the user, at least annually.

5.2. **Inspection Steps:**

- 5.2.1. Inspect rebar chain assembly hardware (snap hooks, carabiners, quick-links, etc.) for damage, distortion, sharp edges, worn parts, or corrosion. The snap hooks or carabiners must work properly. Hook gates must move freely and lock upon closing. Inspect chain for damage, distortion, sharp edges, worn links, or corrosion.
- 5.2.2. Inspect each system component and subsystem according to manufacturer's instructions.
- 5.2.3. Safety Direct recommends that you keep records of the inspection date and results.

5.3. If inspection reveals an unsafe or defective condition, immediately remove rebar chain assembly from service and destroy.

6. **MAINTENANCE, SERVICE, STORAGE**

- 6.1. Clean the rebar chain assembly with water and mild detergent. Wipe off hardware with a clean, dry cloth and hang to air dry. Do not use heat to force dry. An excessive build-up of dirt, paint, etc., may prevent the rebar chain assembly from working properly. If you have questions about the condition of your rebar chain assembly, contact Safety Direct Ltd.
- 6.2. Additional maintenance and servicing procedures must be completed by Safety Direct or authorized parties. Do not disassemble this equipment.
- 6.3. Store the rebar chain assembly in a cool, dry, clean environment, out of direct sunlight. Avoid areas where chemical vapors are present. Thoroughly inspect this equipment after extended storage.

Safety Direct Ltd. reserves the right to modify the specifications of the equipment described in this manual.