

# GUARDIAN

## FALL PROTECTION



## Product Name: O-Torque Beamer

Part #: 00141

### Instruction Manual

**Do not throw away these instructions!**

**Read and understand these instructions before using equipment!**

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## Introduction

Thank you for purchasing a Guardian Fall Protection O-Torque Beamer. This manual must be read and understood in its entirety, and used as part of an employee training program as required by OSHA or any applicable state agency.

This and any other included instructions must be made available to the user of the equipment. The user must understand how to safely and effectively use the O-Torque Beamer, and all fall safety equipment used in combination with the O-Torque Beamer.

| User Information   |       |
|--------------------|-------|
| Date of First Use: | _____ |
| Serial #:          | _____ |
| Trainer:           | _____ |
| User:              | _____ |

## Applicable Safety Standards

When used according to instruction specifications, this product meets or exceeds all applicable OSHA 1926 Subpart M, OSHA 1910, ANSI Z359.1-2007, and ANSI A10.32-2012 standards for fall protection. Applicable standards and regulations depend on the type of work being done, and also might include state-specific regulations. Consult regulatory agencies for more information on personal fall arrest systems and associated components.

## Worker Classifications



Understand the following definitions of those who work near or who may be exposed to fall hazards.

**Qualified Person:** A person with an accredited degree or certification, and with extensive experience or sufficient professional standing, who is considered proficient in planning and reviewing the conformity of fall protection and rescue systems.

**Competent Person:** A highly trained and experienced person who is ASSIGNED BY THE EMPLOYER to be responsible for all elements of a fall safety program, including, but not limited to, its regulation, management, and application. A person who is proficient in identifying existing and predictable fall hazards, and who has the authority to stop work in order to eliminate hazards.

**Authorized Person:** A person who is assigned by their employer to work around or be subject to potential or existing fall hazards.

**It is the responsibility of a Qualified or Competent person to supervise the job site and ensure all applicable safety regulations are complied with.**

## Product Specific Applications



**WARNING** Use of equipment in unintended applications may result in serious injury or death. Maximum 1 attachment per connection point.



**Personal Fall Arrest:** O-Torque Beamer may be used to support a MAXIMUM 1 PFAS for use in Fall Arrest applications. Structure must withstand loads applied in the directions permitted by the system of at least 5,000 lbs. Maximum free fall is 6', or up to 12' if used in combination with equipment explicitly certified for such use. Applicable D-rings: Dorsal.



**Restraint:** O-Torque Beamer may be used in Restraint applications. Restraint systems prevent workers from reaching the leading edge of a fall hazard. Always account for fully deployed length of lanyard/SRL. Structure must withstand loads applied in the directions permitted by the system of at least 1,000 lbs. No free fall is permitted. Restraint systems may only be used on surfaces with slopes up to 4/12 (vertical/horizontal). Applicable D-rings: Dorsal, Chest, Side, Shoulder.



**Rescue/Confined Space:** O-Torque Beamer may be used in Rescue/Confined Space applications. Rescue systems function to safely recover a worker from a confined location or after exposed to a fall. There are various configurations of Rescue systems depending on the type of rescue. Structure must withstand loads applied in the directions permitted by the system of at least 3,000 lbs. No free fall is permitted. Applicable D-rings: Dorsal, Chest, Shoulder.

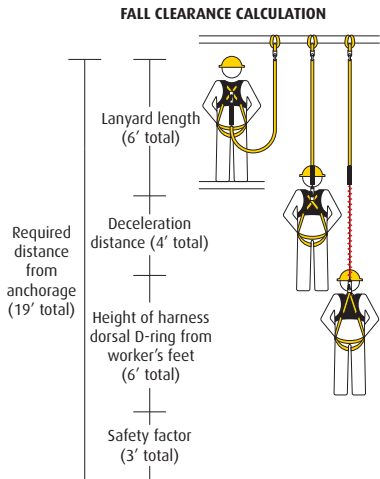
**For all applications: worker weight capacity range (including all clothing, tools, and equipment) is 130-420 lbs.**

## Limitations

**Fall Clearance:** There must be sufficient clearance below the anchorage connector to arrest a fall before the user strikes the ground or an obstruction. When calculating fall clearance, account for a MINIMUM 3' safety factor, deceleration distance, user height, length of lanyard/SRL, and all other applicable factors.

**Diagram shown is an example fall clearance calculation ONLY.**

**Swing Falls:** Prior to installation or use, make considerations for eliminating or minimizing all swing fall hazards. Swing falls occur when the anchor is not directly above the location where a fall occurs. Always work as close to in line with the anchor point as possible. Swing falls significantly increase the likelihood of serious injury or death in the event of a fall.



**Compatibility:** When making connections with O-Torque Beamer, eliminate all possibility of roll-out. Roll-out occurs when interference between a hook and the attachment point causes the hook gate to unintentionally open and release. All connections must be selected and deemed compatible with O-Torque Beamer by a Competent Person. All connector gates must be self-closing and self-locking, and withstand minimum loads of 3,600 lbs. See the following for examples of compatible/incompatible connections:

Connector closed and locked to D-ring. **OK.**



Connector to integral lanyard. **NO.**

Two connectors to same D-ring. **NO.**



Connector directly to webbing. **NO.**

Incompatible or irregular application, which may increase risk of roll-out. **NO.**



Connector directly to horizontal lifeline. **NO.**

Two or more snap hooks or carabiners connected to each other. **NO.**



## Components and Specifications

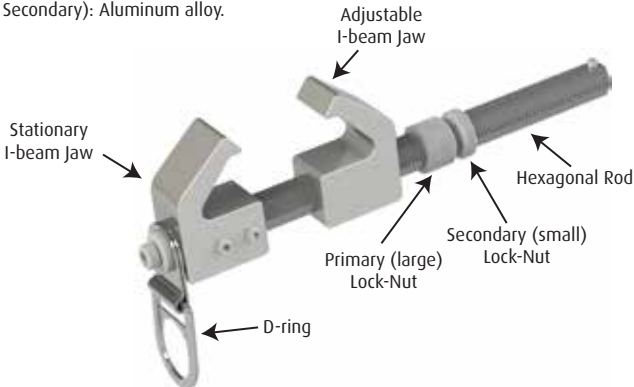
Materials:

Hexagonal Rod: Aluminum alloy.

I-beam jaws (Stationary and Adjustable): Stainless steel.

D-ring: Chrome-plated, forged 45C steel.

Lock-Nuts (Primary and Secondary): Aluminum alloy.



## Installation and Use

### Prior to use, plan your system:

1. Ensure selected I-beam is of compatible size, and is free of any debris, rust, deformation, hazardous materials, or any other condition that may cause O-Torque Beamer to slip or detach.
2. Make considerations for eliminating or minimizing all swing fall hazards.
3. Ensure all PFAS equipment is selected and deemed compatible with O-Torque Beamer by Competent Person.

**Compatible beam width:** 4½" - 12".

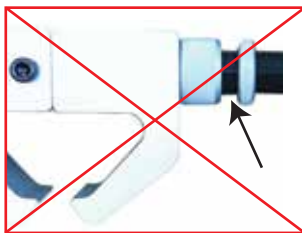
**Compatible flange thickness:** ½" - 2".

### Installation:

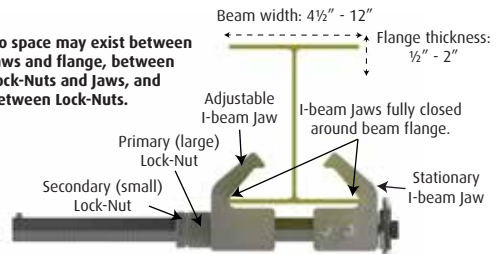
**O-Torque Beamer is suitable for both vertical and horizontal applications.**



1. Loosen both Lock-Nuts and position Adjustable I-beam Jaw so O-Torque Beamer can be placed over selected I-beam flange.
2. Hook Stationary I-beam Jaw over beam flange. Ensure Hexagonal Rod is positioned perpendicular to I-beam, and that D-ring will be positioned in desired location after installation is complete. Then, fit Adjustable I-beam Jaw tightly over beam flange.
3. Tighten Primary Lock-Nut against Adjustable I-beam Jaw until snug. With an adjustable wrench, attempt to tighten Primary Lock-Nut an additional ¼ turn past snug to ensure Primary Lock-Nut is completely secure. No space may be visible between Primary Lock-Nut and Adjustable I-beam Jaw.
4. Tighten Secondary Lock-Nut against Primary Lock-Nut. With an adjustable wrench, attempt to tighten Secondary Lock-Nut an additional ¼ turn past snug to ensure Secondary Lock-Nut is completely secure. No space may be visible between Secondary Lock-Nut and Primary Lock-Nut.
5. Ensure O-Torque Beamer is clamped securely to I-beam. No indications of slippage or movement are permissible.
6. Connect complete and compatible PFAS to O-Torque Beamer D-ring. O-Torque Beamer is suitable for use in combination with horizontal lifelines.
7. The use of a wrench is permitted in the loosening of lock nuts/uninstallation of O-Torque Beamer.



**No space may exist between jaws and flange, between Lock-Nuts and Jaws, and between Lock-Nuts.**



**WARNING**

Ensure O-Torque Beamer is fit tightly to selected beam, and is immobile.

## Maintenance, Cleaning, and Storage

If O-Torque Beamer fails inspection in any way, immediately remove it from service, and contact Guardian to inquire about its return or repair.

Cleaning after use is important for maintaining the safety and longevity of O-Torque Beamer. Remove all dirt, corrosives, and contaminants from O-Torque Beamer before and after each use. If O-Torque Beamer cannot be cleaned with plain water, use mild soap and water, then rinse and wipe dry. NEVER clean O-Torque Beamer with corrosive substances.

When not in use, store equipment where it will not be affected by heat, light, excessive moisture, chemicals, or other degrading elements.

## Inspection

Prior to EACH use, inspect O-Torque Beamer for deficiencies, including, but not limited to, corrosion, deformation, pits, burrs, rough surfaces, sharp edges, cracking, rust, paint buildup, excessive heating, alteration, and missing or illegible labels. IMMEDIATELY remove O-Torque Beamer from service if defects or damage are found, or if exposed to forces of fall arrest.

Ensure that applicable work area is free of all damage, including, but not limited to, debris, rot, rust, decay, cracking, and hazardous materials. Ensure that selected work area will support the application-specific minimum loads set forth in this instruction manual. Work area MUST be stable.

At least every 6 months, a Competent Person other than the user must inspect O-Torque Beamer. **Competent Person inspections MUST be recorded in inspection log in instruction manual and on equipment inspection grid label. The Competent Person must sign their initials in the box corresponding to the month and year the inspection took place.**

During inspection, consider all applications and hazards O-Torque Beamer has been subjected to.

## Inspection Log

Date of First Use: \_\_\_\_\_.

Product lifetime is indefinite as long as it passes pre-use and Competent Person inspections. User must inspect prior to EACH use. Competent Person other than user must complete formal inspection at least every 6 months. Competent Person to inspect and initial.

This inspection log must be specific to one O-Torque Beamer. Separate inspection logs must be used for each O-Torque Beamer. All inspection records must be made visible and available to all users at all times.

|    | J | F | M | A | M | J | J | A | S | O | N | D |
|----|---|---|---|---|---|---|---|---|---|---|---|---|
| YR |   |   |   |   |   |   |   |   |   |   |   |   |
| YR |   |   |   |   |   |   |   |   |   |   |   |   |
| YR |   |   |   |   |   |   |   |   |   |   |   |   |
| YR |   |   |   |   |   |   |   |   |   |   |   |   |
| YR |   |   |   |   |   |   |   |   |   |   |   |   |

**If equipment fails inspection IMMEDIATELY REMOVE FROM SERVICE.**

## Safety Information



Failure to understand and comply with safety regulations may result in serious injury or death. Regulations included herein are not all-inclusive, are for reference only, and are not intended to replace a Competent Person's judgment or knowledge of federal or state standards.

Do not alter equipment. Do not misuse equipment.

Workplace conditions, including, but not limited to, flame, corrosive chemicals, electrical shock, sharp objects, machinery, abrasive substances, weather conditions, and uneven surfaces, must be assessed by a Competent Person before fall protection equipment is selected.

The analysis of the workplace must anticipate where workers will be performing their duties, the routes they will take to reach their work, and the potential and existing fall hazards they may be exposed to. Fall protection equipment must be chosen by a Competent Person. Selections must account for all potential hazardous workplace conditions. All fall protection equipment should be purchased new and in an unused condition.

Fall protection systems must be selected and installed under the supervision of a Competent Person, and used in a compliant manner. Fall protection systems must be designed in a manner compliant with all federal, state, and safety regulations. Forces applied to anchors must be calculated by a Competent Person.

Unless explicitly stated otherwise, the maximum allowable free fall distance for lanyards must not exceed 6'. No free fall allowed for non-LE SRLs. Class A SRLs must arrest falls within 24"; Class B SRLs must arrest falls within 54".

Harnesses and connectors selected must be compliant with manufacturer's instructions, and must be of compatible size and configuration. Snap hooks, carabiners, and other connectors must be selected and applied in a compatible fashion. All risk of disengagement must be eliminated. All snap hooks and carabiners must be self-locking and self-closing, and must never be connected to each other.

A pre-planned rescue procedure in the case of a fall is required. The rescue plan must be project-specific. The rescue plan must allow for employees to rescue themselves, or provide an alternative means for their prompt rescue. Store rescue equipment in an easily accessible and clearly marked area.

Training of Authorized Persons to correctly erect, disassemble, inspect, maintain, store, and use equipment must be provided by a Competent Person. Training must include the ability to recognize fall hazards, minimize the likelihood of fall hazards, and the correct use of personal fall arrest systems.

NEVER use fall protection equipment of any kind to hang, lift, support, or hoist tools or equipment, unless explicitly certified for such use.

Equipment subjected to forces of fall arrest must immediately be removed from use.


Age, fitness, and health conditions can seriously affect the worker should a fall occur. Consult a doctor if there is any reason to doubt a user's ability to withstand and safely absorb fall arrest forces or perform set-up of equipment. Pregnant women and minors must not use this equipment.

Physical harm may still occur even if fall safety equipment functions correctly. Sustained post-fall suspension may result in serious injury or death. Use trauma relief straps to reduce the effects of suspension trauma.

# Labels

**Inspection Grid:**

Inspect prior to each use.  
Competent Person must inspect  
and record at least every 6 months.



|    | J | F | M | A | M | J | J | A | S | O | N | D |
|----|---|---|---|---|---|---|---|---|---|---|---|---|
| YR |   |   |   |   |   |   |   |   |   |   |   |   |
| YR |   |   |   |   |   |   |   |   |   |   |   |   |
| YR |   |   |   |   |   |   |   |   |   |   |   |   |
| YR |   |   |   |   |   |   |   |   |   |   |   |   |

**GUARDIAN**  
FALL PROTECTION

**O-Torque Beamer**

Structural Steel Fall Protection

Part #: 00141




90281  
(Rev. B)

ANSI Z359.1-07, ANSI A10.32-12, OSHA 1910, and OSHA 1926 Subpart M.  
Maximum 1 connection per O-Torque Anchor.  
Capacity range: 130 - 420 lbs.  
Minimum breaking strength: 5,000 lbs.  
Materials: aluminum and stainless steel.  
Always use with compatible equipment, possibly  
including special lanyard for tie-off at foot level.  
**MAKE ONLY COMPATIBLE CONNECTIONS.**  
**FOR USE ON STRUCTURAL STEEL I AND H BEAMS ONLY.**  
Adjust Beamer Anchor at every junction of flange dimension change.

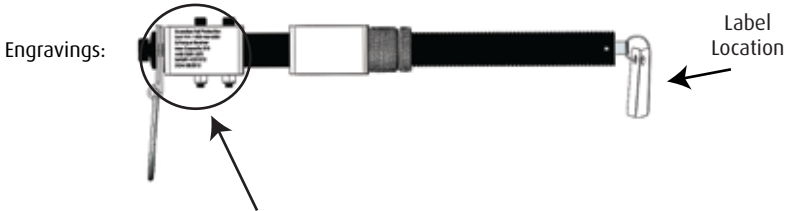


**WARNING! READ CAREFULLY BEFORE USING**

MANUFACTURER'S INSTRUCTIONS INCLUDED AT  
TIME OF SHIPMENT MUST BE FOLLOWED AT ALL  
TIMES FOR PROPER USE, MAINTENANCE, AND  
INSPECTION. ALTERATION, ABUSE, OR MISUSE OF  
THIS PRODUCT MAY RESULT IN SERIOUS INJURY OR  
DEATH. DO NOT REMOVE LABELS.



MADE IN TAIWAN



Guardian Fall Protection  
Kent WA 1-800-466-6385  
O-Torque Beamer  
ANSI Z359.1 (07)  
Serial #: (product specific)  
DOM: (product specific)