



OVERHEAD CRANE RAIL

Custom Engineered Systems for Overhead Crane Fall Protection

PRODUCT LITERATURE

CAI provides horizontal lifelines and anchors for fall protection when accessing overhead crane rails. Our OSHA fall arrest systems allow you to safely access your overhead cranes at any point along the crane rail.

CAI horizontal lifelines and anchors are designed to be easy to install, use and maintain. All of our overhead crane fall arrest systems are OSHA and ANSI compliant.



[LINK TO PRODUCT](#)



Fall Protection Challenge

In the middle of production the overhead crane breaks down bringing all work to a halt. The overhead crane is disabled in an area that is not accessible by man lift or platforms.



Fall Protection Solution

Our horizontal lifelines can run the entire length of the crane rail which means a worker can attach to the system at any point and walk the entire length uninterrupted and with fall protection.

Features & Benefits



OSHA CUSTOM DESIGN

Our engineering team will design a fall protection system that utilizes your existing building column structure to meet your safety and access needs. All drawings and design calculations will be stamped by a Qualified person PE as required by OSHA and ANSI.



QUALITY MANUFACTURING

CAI is an ASME certified shop utilizing the finest craftsman to work on our fall protection products. All overhead crane rail fall arrest systems are fabricated and inspected prior to shipping so that minimal downtime is required during field install. Horizontal lifeline components are manufactured from stainless steel to provide durability in the harshest environments.



TIMELY INSTALL

By using brackets that clamp to your existing building column we can complete the install of your overhead crane fall protection system in a timely manner.



FALL IMPACT INDICATOR

CAI uses shock absorbers on the horizontal lifeline for the dual purpose of reducing the loads on your building structure and a visual means to verify if the system has been impacted.



CONTINUOUS FALL PROTECTION

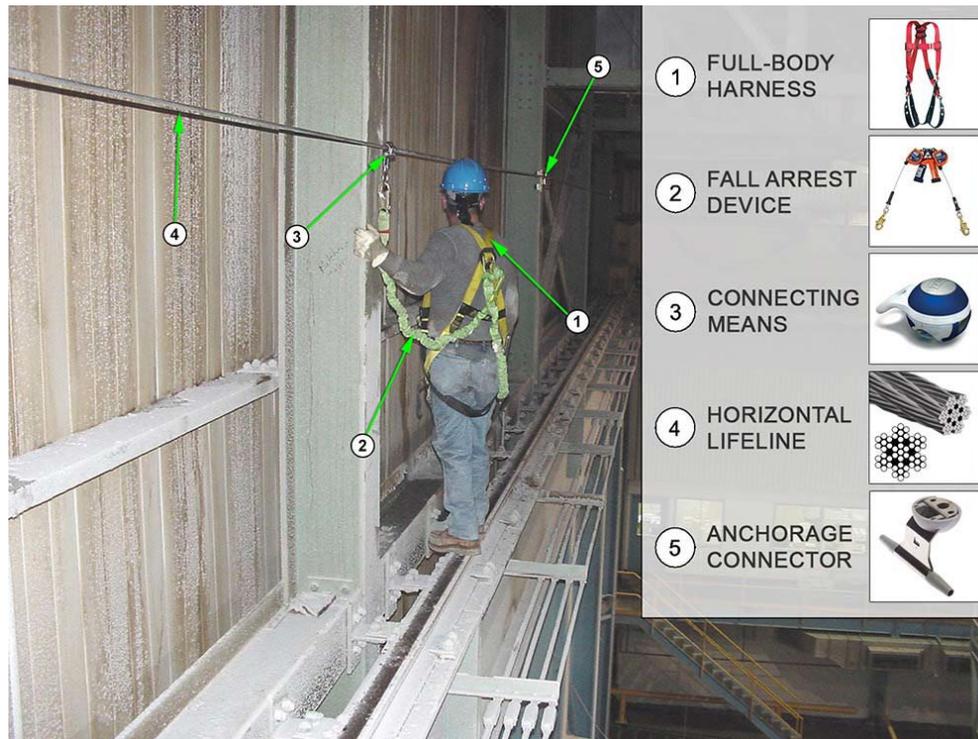
The pass-through features of our horizontal lifelines means that the user can walk uninterrupted the entire span of the crane rail and maintains 100% tie-off.



FALL ARREST CAPABILITY

The user has fall protection by being secured to a self-retracting lifeline or shock absorbing lanyard suspended from a trolley. In the event of a fall the self-retracting lifeline will arrest the fall.

System Components

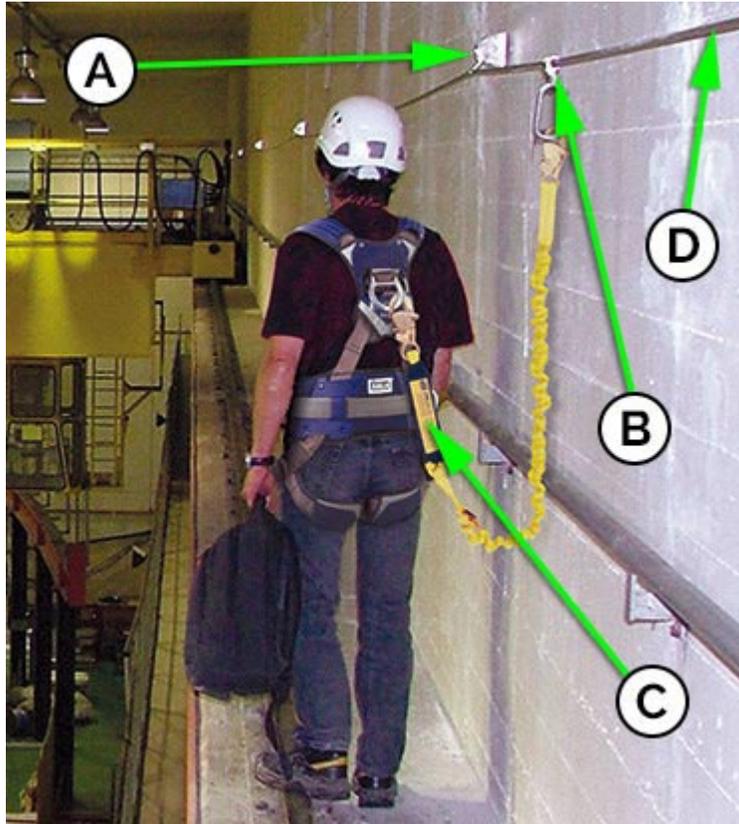


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- 1. Full-Body Harness:** Only a full body harness can be used in a fall arrest system such as this crane rail application. The harness reduces the forces of the fall on the body and also keeps the user in an upright position when properly worn.
- 2. Fall Arrest Device:** The option is to use a self-retracting lifeline or shock absorbing lanyard. Either device is utilized to reduce the arresting forces of the fall on the user.
- 3. Connecting Means:** A trolley that is designed to glide over the brackets of the horizontal lifeline system. This feature keeps the user connected to the fall.
- 4. Horizontal Lifeline:** This is a stainless steel cable lifeline that runs the length of the crane rail to allow the user to attach at any point and walk to the disabled crane bridge.
- 5. Anchorage Connector:** The brackets are designed to have a custom fit to your steel columns in most cases by clamping.

How To Use

A fall protection program must be in place prior to using the crane rail fall protection system. The program must include training, inspection and a rescue system.



(click image to enlarge picture)

- A.** The brackets are positioned as high as possible ideally around 6 to 7 feet from the crane rail to reduce the fall distance.
- B.** Place the removable trolley at any point of the horizontal lifeline and close shut.
- C.** Attach the fall arrest self-retracting lifeline or shock absorbing lanyard to the trolley. The shock absorbing end to be attached to the full body harness.
- D.** The user can now walk the length of the horizontal lifeline while attached to the fall protection system.



****CAUTION WARNING**** This fall protection system is designed to ensure your safety when used correctly. To prevent serious injury or death, it is imperative that you strictly adhere to the manufacturer's instructions. Only operate this system if you have received proper training. In accordance with OSHA regulations, it is mandatory to involve a Qualified Person for the design and installation supervision of all fall arrest and restraint systems, including the product highlighted on this page. To access detailed instructions, please download the system manuals from the 'Downloads' tab on each product page. For any inquiries or clarifications, feel free to **contact us**. Your safety is our top priority!

Information Needed to Quote

By providing some basic information we can provide you with a custom proposal. Pictures and sketches are very helpful and if you prefer to speak with a fall protection expert just call or send us an e-mail. **Fill out our [Request a Quote](#) form to send us your information.**

- Length of coverage area
- Type of vehicle or equipment that you need to work on
- Number of users

After Sales Support Services

CAI Safety Systems will continue to support you after your system has been installed and is in use. We can provide annual inspection, training, updating user equipment and rescue systems.

Visit our [Services](#) and [Training Agenda](#) for more information.



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