Swing-Arm / Fold-Away
Custom Engineered Systems for Overhead Crane Bays
Bus / Truck / Flatbed

PRODUCT LITERATURE

The CAI Safety Swing Arm System was designed to provide OSHA fall protection that does not interfere with the operation of the overhead crane. The arms simply fold away from the work area when not required to allow the overhead crane full access. When needed the safety system is folded in to position to provide an overhead fall arrest system that allows personnel to work safely and efficiently. Visit Product Page >>

Fall Protection Challenge

Most assembly, maintenance, and loading work is done with the aid of an overhead crane.

Often a person has to be working at heights and exposed to a fall in areas with overhead cranes. Installing a fixed overhead fall protection system is not feasible because of the conflict with the overhead crane.

Fall Protection Solution

The CAI Swing Arm Fall Arrest System provides a system that can be extended to support employees who need fall protection at heights.

The system can easily be retracted away from the work area when you need full access to the overhead crane. Our swing arm system is custom manufactured and OSHA complaint.
Features & Benefits

CUSTOM DESIGN
CAI's freestanding fall protection system is supported from concrete piers. This engineered approach gives you the option of having an outdoor fall arrest system that supports your loading needs.

NO INTERFERANCE WITH OVERHEAD CRANE
To reduce field assembly time, our products are shipped fabricated with detailed assembly instructions. Assembly comprises of steel erection with bolting and clamping of the major components.

ERGONOMIC
Our aluminum truck track has many benefits such as robust construction, light weight and endurance in the outdoor elements. The other major benefit is the long spans we can run between supports. For example we can support a sixty foot track with one anchor; this translates to fewer anchors and footings to the benefit of your bottom line.

RETRIEVAL SYSTEM
We have an in-house team to engineer and manufacture the freestanding fall arrest system. This means we can monitor the QA and QC throughout the process to make sure the product delivered to your doorstep is safe and meets your specification needs.

FALL ARREST CAPABILITY
A self-retracting horizontal lifeline connects users to the fall arrest systems. When users fall, this system retracts the lifeline, with the help of a trolley to make for effective fall arrest.

HORIZONTAL LIFELINE
Movement on top of the structure being worked on is restricted by the length of the lifeline. Otherwise, users can move along freely and productivity is not hindered.
QUALITY MANUFACTURING
CAI is an ASME certified shop utilizing the finest craftsman to work on our fall protection products. All systems are fabricated and tested prior to shipping so that minimal downtime is required during field install.

AUTOMATED OR MANUAL OPTIONS
The ability to swing the system in use position or to foldaway when not in use can now be achieved with manual and electric operated options. The manual system is a two person requirement while the automated system only requires one person to operate. Either option is intended allow the user to move the fall protection system at a pace that will support the productivity of your application.

Extended & Retracted Position

EXTENDED
Fall Protection System in retracted position when overhead crane is in use

RETRACTED
Fall Protection System in extended position when fall protection is required
System Components

- **Swing-Arm:** Allows the system to be extended when fall protection is required and retracted when access is required for overhead crane.
- **Horizontal Lifeline:** This is an aluminum rigid track that runs the desired length to allow the user to have access to the work area.
- **Connecting Means:** A Trolley that is designed to glide over the rigid or cable horizontal lifeline system. This feature keeps the fall arrest system directly above the user to reduce the chances of a swing fall.
- **Fall Arrest Device:** The Self-retracting Lifeline is utilized to reduce the arresting forces of the fall on the user and minimize the fall distance.
- **Full Body Harness:** Only a full body harness can be used in a fall arrest system such as the freestanding fall protection system. The harness reduces the forces of the fall on the body and also keeps the user in an upright position when properly worn.
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 the above information.
Aluminum Rigid Track System (ART)

**ALL ALUMINUM DESIGN**

Foreign Object Debris (FOD) and maintenance costs are reduced using strong aluminum structures. Painting and decoration are optional and do not affect the structure.

**INSTALLATION BENEFITS**

Handle parts with ease; Mounting can be customized; Excessive hardware is removed

**SINGLE & DUAL TRACKS**

Single Tracks can be used for up to 20 feet between supports; Dual Tracks can be used for up to 40 feet between supports.

!! CAUTION !! This is a fall protection system. The system must be used in strict conformance with the manufacturer’s instructions. Failure to do so may result in serious injury or death. Do not use or operate this system unless you are properly trained.
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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