



HEALTH, SAFETY,
& ENVIRONMENTAL



Alert #: SA 17-26

Date: March 18, 2026

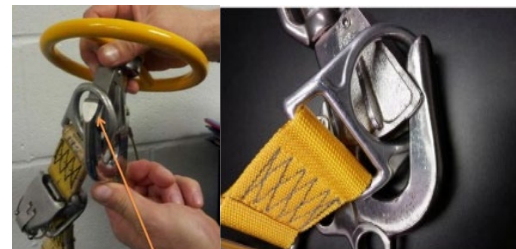
Dynamic Ring Rollout Results in Dropped Object

A recent dropped object incident occurred offshore involving a construction crew (**not GIS**) during the offloading a bottle rack. During the lift, the bottle rack fell approximately 12 inches onto the rear section of the boat deck, resulting in significant damage to both the bottle rack and the deck grating above the hydraulic steering actuators. Fortunately, no personnel were injured during this SIF event.

What Went Wrong:

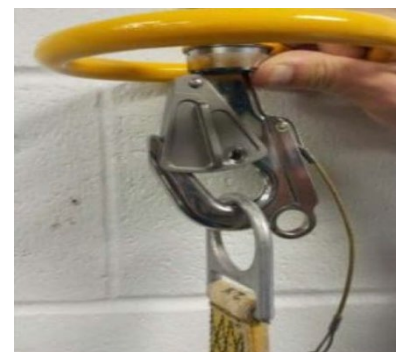
The incident was caused by a **Dynamic Ring Rollout** event. The bottle rack had a 3-foot sling and D-ring. The crane hook was positioned on the side of the rack where the D-ring was attached. As slack was removed, this configuration allowed the D-ring to rotate within the hook and bypass the hook gate. The D-ring remained temporarily engaged, allowing the load to be lifted approximately 12 inches before releasing and dropping.

"Dynamic Ring Rollout" (also known as D-ring reversal) refers to a dangerous phenomenon in hoisting operations where a safety hook's locking mechanism is bypassed, allowing the D-ring to release. This usually occurs when the lifting ring moves, flips, and travels up over the tip of the hook while the load is temporarily relieved.



Prevention Tips:

- **Proper Hook Placement**
Ensure the D-ring is fully seated in the saddle of the hook before lifting.
- **Sling Alignment**
Verify the lifting sling is perpendicular to the hook prior to lifting and while slack is removed.
- **Team Verification**
Any personnel involved in the lift, directly or indirectly, must verify proper attachment before the load is lifted.
- **Training and Awareness**
Reinforce rigging requirements per **LLCP-105-Rigging** and discuss the risk of Dynamic Ring Rollout during toolbox talks and pre-lift briefings.



Note: Double-locking hooks, commonly referred to as "D-Locks", are hooks equipped with a positive locking mechanism that requires manual manipulation to open the gate. These hooks typically lack an exposed hook beak, which reduces the likelihood of D-ring entanglement and dynamic rollout.

Dynamic Ring Rollout is not exclusive to crane operations. This hazard can also occur in personal fall protection or any application where the D-ring can travel over a hook beak.

Proper use of the **GIS LIFE Processes** can help to create a **FAIL-SAFE** Work Environment.



SAFETY ALERT