



## HEAD RUSH TECHNOLOGIES WHITE PAPER

# QUICKJUMP WEBBING SECONDARY ATTACHMENT POINT

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The QUICKjump/QUICKjump XL free fall device comes with an EN 362 certified triple locking carabiner installed on the primary attachment point of the webbing assembly. The QUICKjump/QUICKjump XL webbing assemblies have a secondary attachment point to accommodate an optional secondary connector. This white paper is meant to help qualified persons when designing a secondary attachment on the QUICKjump/QUICKjump XL webbing assembly and should not be applied to other Head Rush Technologies devices.

## SUGGESTIONS FOR ATTACHMENTS

### The QUICKjump/QUICKjump XL Free Fall Device Operators Manual states:

An optional secondary attachment point is provided on the webbing line above the primary carabiner loop. The secondary attachment point can be used as shown by tying a sling through the secondary attachment point and attaching a second carabiner to the sling. The second carabiner must hang below the primary carabiner to ensure that the secondary attachment point is not loaded during normal operation.



### To further clarify the above, Head Rush provides the following information:

1. Any sling or equivalent textile used (dog bone, rope, etc) must be suitably rated and meet the requirements of the Authority Having Jurisdiction (AHJ) for use in its application.
2. Any connector utilized (carabiner, quicklink, etc) must be suitably rated and meet the requirements of the AHJ for use in its application.
3. All carabiners used in an installation that utilizes a secondary attachment should be double or triple locking and meet the requirements of the AHJ.
4. Connections to the webbing have the potential for additional wear and must be included in daily webbing inspections.
5. The secondary attachment point should not be loaded during standard operation due to the propensity for wear on the two bar tacks directly below the secondary attachment point when subjected to repeated loads. See Figure 4 for an example secondary attachment that is not acceptable.



Figure 1: QUICKjump/QUICKjump XL attachment points

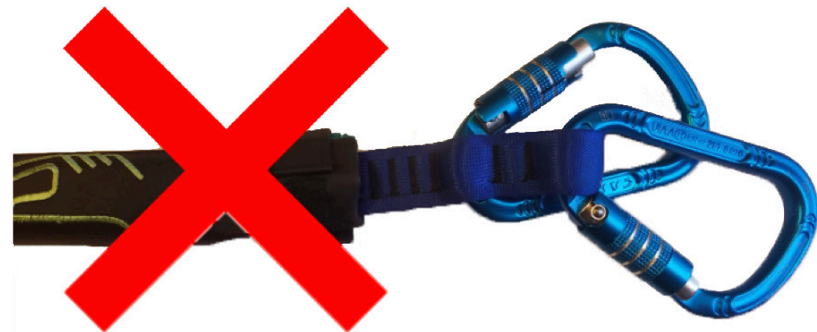
## EXAMPLE CONNECTIONS



*Figure 2: Girth hitched sling to secondary attachment point*



*Figure 3: Sling attached to quicklink on secondary attachment point*



*Figure 4: Improper secondary attachment because secondary will be loaded during standard operation*

## OPERATOR/USER INSTRUCTION

The following items are taken directly from the QUICKjump/QUICKjump XL Free Fall Device Operators Manual in regards to participant attachment to the QUICKjump:

- **WARNING: NEVER DESCEND WITHOUT BEING CORRECTLY ATTACHED.** Ensure carabiner is attached to the designated attachment point of the harness, the latch is fully closed and the gate engaged before use. Failure to do so can result in serious injury or death.
- Ensure that operators are anchored to the platform at all times. Riders must be anchored to the platform AND attached to the QUICKjump UNTIL THEY ARE READY to descend.
- Visually inspect the webbing line, carabiner and the device to ensure that everything is in proper working order.
- Never continue operation if the webbing line fails to fully retract. DO NOT pull out any excess webbing line prior to descent. The webbing line must be fully retracted or under tension prior to operation.
- Check the harness is correctly fitted and tightened.
- Check that the carabiner from the QUICKjump Free Fall Device line is connected to the designated attachment point(s) on the harness and the gates are properly closed.
- **PINCH HAZARD WARNING:** Keep fingers clear of carabiner and harness attachment point when descending. Loading may cause pinch.
- Ensure the carabiner latch gate is facing away from the rider and fully closed and locked.
- Never permit the webbing line to wrap around the legs, arms, neck, other body parts or loose clothing of the rider.
- Allow the [carabiner] latch to snap shut, ensuring the collar has rotated back and is locked. Ensure that no clothing, webbing or other objects are obstructing the gate or latch.
- Double check that the gate on the carabiner is secure.