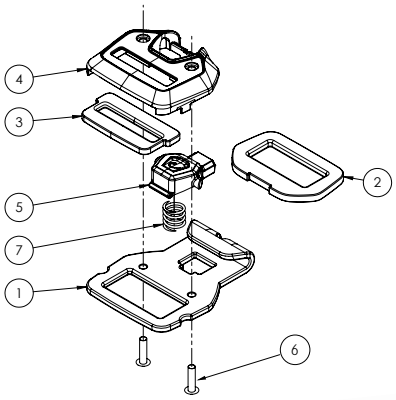
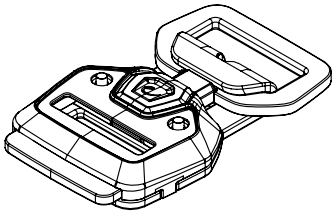
Construction and operation of the Triple Lock buckles

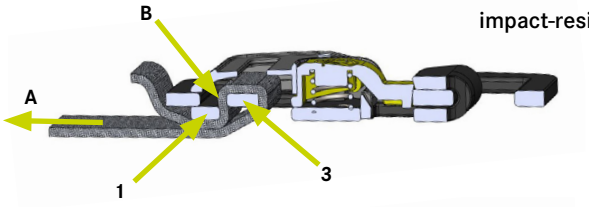
The EDELRID Triple Lock buckle is a PPE harness buckle that can be completely opened and adjusted. The opening mechanism consists of a hook and a frame element, which can be separated from each other by independent movements. This adjustment mechanism is made of a two part slide block element, under a plastic coverage.



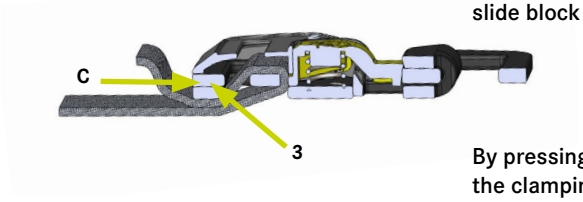
1 - Base plate / hook part
2 - Frame part
3 - Slide block element
4 - Plastic coverage
5 - Push button
6 - Rivets
7 - Compression spring



The metallic elements 1-3 belong to the load-bearing elements of the buckle and are made of a KTL-coated, high-strength steel alloy. The plastic case and the snap fasteners are made of impact-resistant, glass fiber reinforced polyamide.



By pulling on band A it moves the slide block frame 3 and the band is clamped at B, between slide block frame 3 and base plate 1.



By pressing the slide block frame 3 into the plastic coverage C and raising the buckle lightly, the clamping of the belt is released and the belt can be adjusted.

Loosening the tape:

VIDEO

hold the buckle

press slide block frame in the housing

slightly lift the buckle and pull the tape out of the buckle

Wrong:

VIDEO

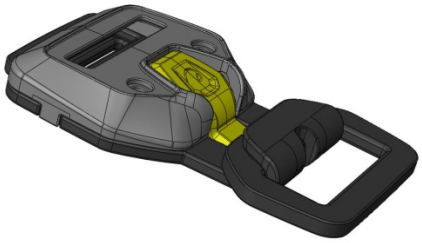
If the he buckle is edged up to the slide block frame only, the clamping of the tape is not undone and the tape cannot be pulled out of the buckle.

This mechanism prevents that the buckle is loosen inadvertently by accidentally getting stuck.

Opening and closing of the Triple Lock buckle

1. hold the buckle

2. press the push button



3. slide and tilt the frame

4. pull the hook out of the frame

VIDEO