

## PSA-STRING-WORKAIR

Personal protective equipment for workers at height

The PSA-STRING-WORKAIR is used wherever activities have to be performed in a fall-risk area. The airbag can be used in several ways. Either it is put on under or over everyday clothing or it is worn under the safety harness. In this way, the WORKAIR protects the body (back, chest and adjacent organs) from serious injuries caused by an impact.

Depending on how it is worn, it provides additional safety at low or high fall heights and where it is difficult or impossible to position anchor points. Examples include loading and unloading stations for vehicles, assembly work at low fall heights, scaffolding work etc. The lightweight detects the fall by means of sensors and automatically triggers the airbag in milliseconds. This reduces the risk of injury in the event of a pendulum fall. The technology used is widely used in motorbike and ski racing and has been further developed to meet the requirements of industrial safety.

### BENEFITS

- Optimum protection of the vital organs in the chest area, thanks to automatic accident detection and the rapid reaction of the airbag within 40 milliseconds
- Absolute reliability thanks to many years of research into D-AIR Lab technology, which enable controlled, uniform inflation of the vest
- High user-friendliness thanks to the low intrinsic weight and volume in its unactivated state
- Versatile in use thanks to the option to wear the protective vest in combination with everyday clothing and underneath the safety harness



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# Technical product descriptions

The PSA-STRING-WORKAIR, developed in Italy by D-AIR Lab, consists of high-performance materials which are sewn together into a vest in an intelligent design.

The protective vest contains two gas generators triggered by a sensor. This sensor detects an abrupt change in position, and triggers the inflation of the vest. For this, a change in position of at least 1.2 m is necessary. Falls from this height therefore trigger the airbag mechanism. The vest has magnetic closures, width adjustments at the side, and it can be supplied in various sizes. It includes a lithium ion battery which ensures that the protective vest can be used for 18 hours and then recharged via a USB-C connection. The watertight IP54 connection links the vest to the integrated gas generators. An LED display provides information about the vest's status and operational capability.



## TECHNICAL BENEFITS

### Intelligent activation mechanism

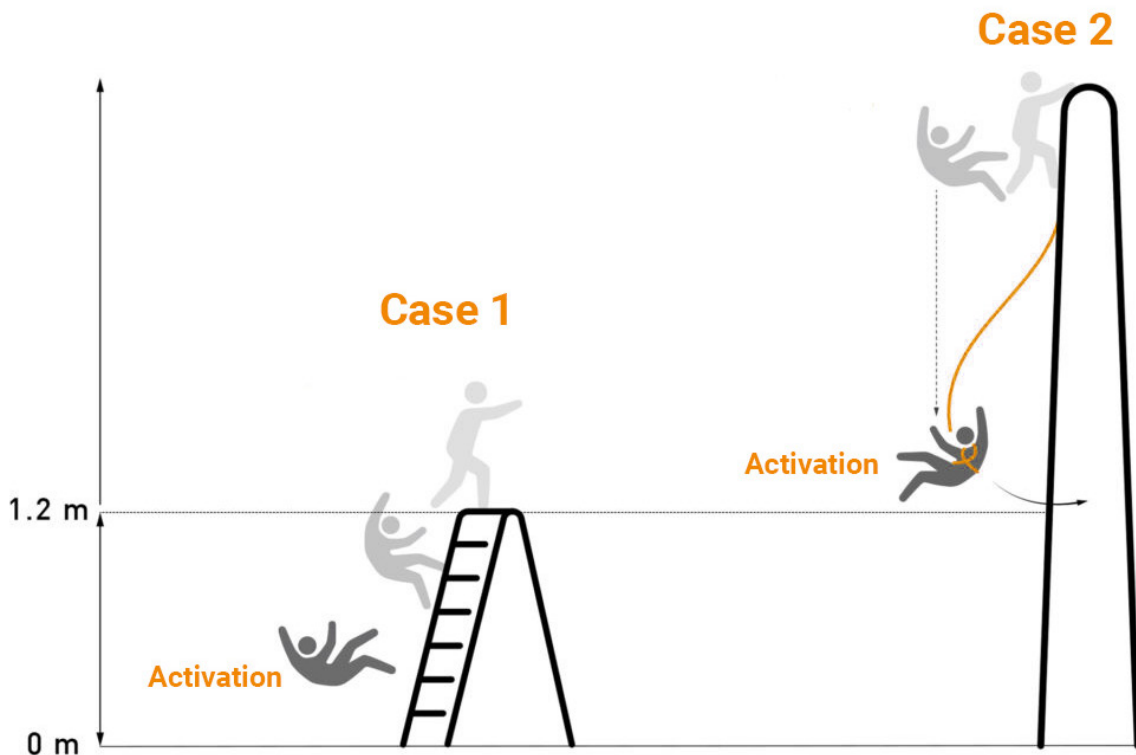
The sensory system built into the protective vest detects exactly when a fall occurs, and activates the inflation of the PSA-STRING-WORKAIR in milliseconds.

### Comfort and convenience through design and technology

By means of FEM-analysis software, the design was optimised in such a way that the vest extends optimally in the event of a fall, and it can be worn comfortably during normal use.

### Extended period of use in any weather

Once fully charged, the vest is ready to be worn for up to 18 hours on top of or underneath the everyday clothing.



### Certification to the latest state of the art:

IP54 certification • CE label 2016/425 • Individual certification as per specification, in collaboration with Dolomiti Cert and the University of Padua • Protects body areas CB and DC a per EN 1621-2:2014



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