

## ON-RIDER SAFETY SOLUTIONS

# Airbag Motorcycle Helmet



Autoliv and AIROH presented the world's first airbag motorcycle helmet for enhanced head safety at EICMA in 2022.

A conceptual innovation that could become a real turning point in the field, providing the rider with protection far beyond current state-of-the-art motorcycle helmets.

### A collaboration between AIROH & Autoliv

A prototype helmet with an integrated airbag demonstrated that protection improvements could be reached without critically compromising the design, weight or comfort. Testing shows the peak linear head acceleration and hence skull fracture risk can be reduced substantially through this incorporation of airbag technology.

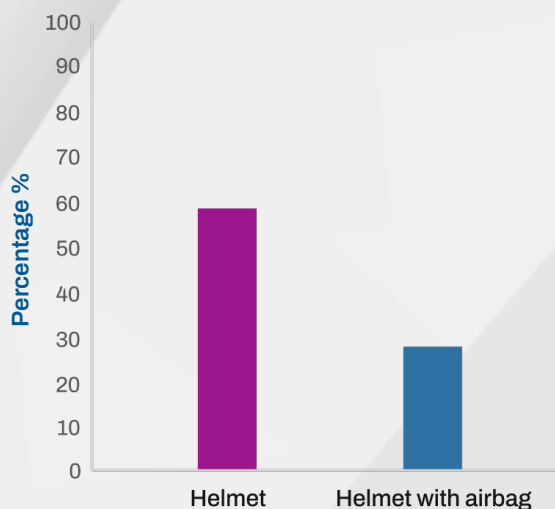
A development boundary being that in situations when the airbag is not deployed the helmet should still meet all the usual safety requirements and provide the rider with levels of protection expected from a conventional helmet.

### Updated concept 2023

The study conducted by Autoliv and AIROH has taken important steps in recent months. The integration of the airbag system into the helmet is refined to support superior craftsmanship, enhanced safety and ability of industrialization.

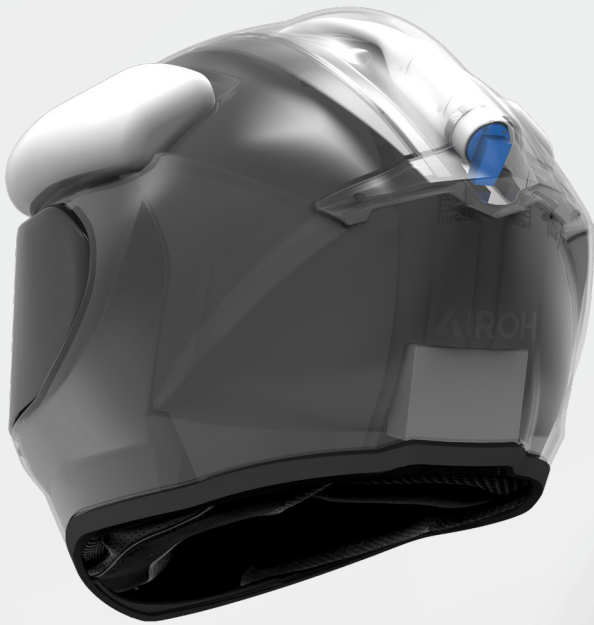
It's now – unlike the initial concept – oriented towards the use of one single cover, detachable during the event of airbag deployment. These updates enable a freedom to streamline the helmet design as well as an optimizing of the airbag towards a larger coverage area and further enhanced safety performance.

Probability of serious injury due to a skull fracture



# AIROH

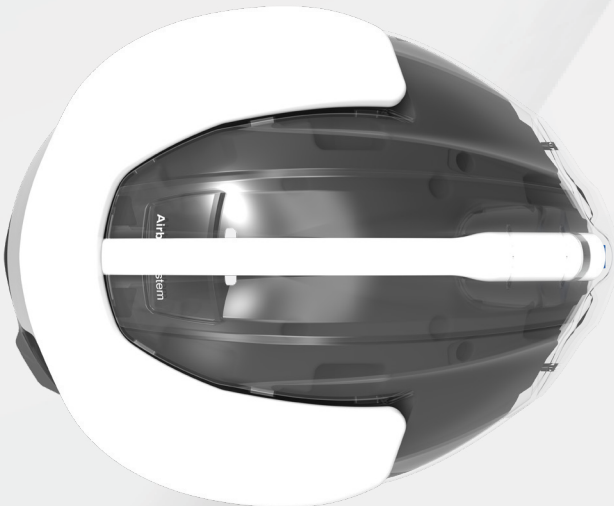
## INFLATED LOOK



Backside with gas generator & ECU/battery  
- transparent view



Backside normal look - uninflated



Top with Airbag inflated  
- transparent view



Top normal look - uninflated



Front with Airbag inflated

# AIROH

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