POC Helmet Concepts & Technologies
DIFFERENT HELMET CONCEPTS & TECHNOLOGIES FOR SEVERAL DIFFERENT NEEDS

**An in-mold helmet construction** is very lightweight, but lacks penetration resistance due to the thin shell. By molding a sheet of aramid to the core, the low weight is maintained while the protection is radically improved.

**By studying the airflow inside the helmets,** POC has been able to create super ventilated helmets with adjustable and optimized ventilation depending on the conditions. The combination of goggle vents, chimney vents, VDSAP and adjustable vents makes the helmets very ventilated, with a maintained low weight and a high level of protection.

**By molding aramid bridges** to the core of the helmet, the impact forces are spread over a larger surface. At the same time the helmet gains structural stability through the bonding of the unbreakable aramid weave and the EPS liner, which allows for a very lightweight helmet with a high level of protection.

**POC’s patented VDSAP system (Ventilated Double Shell Anti-Penetration)** is built on two ventilated shells that are placed offset for maximum protection against penetration from sharp objects, while maintaining good airflow and ventilation. The safety performance of this construction is amazing and represents a unique take on helmet design.

**MIPS** stands for Multi-directional Impact Protection System and is used to reduce the rotational forces to the brain in the case of an oblique impact. A normal helmet is created to absorb vertical impacts very efficiently, but is not as good at the rotational forces. When subjected to an oblique impact, the MIPS system absorbs these forces by allowing a small rotation of the outer shell relative to the liner.

**Through examining helmets used by World Cup alpine racers,** we identified that they were worn out in the front caused by repeated impacts from the gates. The violence was more severe than we had ever imagined and the discovery led us to developing the Multi-Impact Deflector Panels, featured in the new line of Skull Orbic helmets. Our deflector panels decrease the transmitted force of the impact, and increase the shock absorbing capacity of the helmets. This ensures that the helmet performance remains at the highest level when it’s really needed: in a real crash. In the deflector panel of the Skull Orbic Comp, we integrated our patented VPD 2.0 that has extreme impact absorbing properties, proven very efficient for repeated impacts in our body armor collection. The Skull Orbic X deflector panel is made of multi-impact EPP material.

**MIPS** allows a small rotation of the shell relative to the liner and thereby reduces the rotational energy transmitted to the brain on impact.
ICE stands for In Case of Emergency and is recognized all over the world. POC ICE is a proactive effort to provide emergency personnel with correct medical history such as blood group, allergies and basic information like name and emergency contact, even if the victim is unconscious.

Through POC’s dedication and commitment in developing groundbreaking personal protection, we often end up in new areas of expertise depending on the challenge. Our collaboration with some of the best minds in science, health and technology has allowed us to push the boundaries and be at the forefront of safety. Unfortunately, accidents do happen, and with POC’s mission to do everything we can to possibly save lives and reduce the consequences of accidents, we have looked at new ways to promote safety.

Helmet, body armor and goggle constructions and design are critical elements in accident safety but studies have also shown that if we could intervene the time before the victim receives help and provide information needed for correct medical care, we could potentially limit the consequences of accidents. This innovative approach has led to the two components of POC ICE, promoting the idea of digital safety. We have teamed up with ICEdot to provide a system composed of an identification tag and crash sensor, helping the rider to get immediate and necessary medical care in case of emergency.

ICE TAG
If an accident occurs and the rider is knocked unconscious, scanning the identification tag will allow emergency personnel, or passers-by, to identify the victim and get correct medical information such as blood group or allergies that can be vital for correct medical care.

ICEdot CRASH SENSOR
When paired with the ICEdot smart phone app, the crash sensor is able to detect motion, changes in forces and impacts. In the event of critical forces, the device triggers the app to send a message with your GPS position to your pre-selected contacts, unless you stop it within a user defined time interval. This will let your family or friends know you might need help.

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