



### RuRoc > 2007

#### Full face Snowboard helmet

At Curventa we specialise in helping start-up companies reach their end goal, efficiently, within budget and on time for market, RuRoc is no exception.

#### Problem

Snowboarders suffer wind chill to exposed areas of skin when at altitude or under severe weather conditions. The only device for protection at present is an elasticated piece of fabric called a snood that wraps around the lower face.

#### Solution

Curventa took the initial idea from RuRoc and immediately started to develop further sketch concepts. Using our in-house 3D laser scanning we were able to obtain accurate data of the human head to determine exact dimensions for fit. The sketch concepts were then moved to CAD and combined with the scanned data in order for SLS and blue foam models to be accurately produced.

All RuRoc helmets provide improved head coverage and protection compared to conventional helmets, they also incorporate a unique ventilation system that perpetually circulates and replaces air within the helmet to minimize fogging and sweat inside the helmet when it is being worn.

The basic helmet design uses two main sections made up of an internal liner (EPS) and a hard external shell (ABS). Strategically located air intake apertures provide a constant source of forced air which is increased through motion giving the wearer more ventilation when they need it most.

The goggles have been specifically designed to create a sealed marriage with the helmet. The material is flexible and therefore contours to the shape of the face. It is surrounded by soft foam cushioning.

The mask is also detachable for when the wearer becomes too hot, wants a drink, or wishes to remove the helmet.

**'At every stage you have exceeded my expectations everytime'**

James Semple - Ruroc.



#### Services for RuRoc

- Market Audit
- Sketch Development
- Foam & Card modelling
- 2D rendered visuals
- Supplier research & liaison
- In-house 3D Laser scanning
- Reverse Engineering
- Photorealistic imaging
- CAD 3D Modelling
- Tooling analysis and viability
- Production part & Assembly data
- Reference & Patent drawings
- Partners in UK and Far East
- 2D Artwork & Logo Design