

Research and Development



Research and Development (R&D) is a critical phase in the product development process. It involves the systematic application of scientific methods to create new products or improve existing ones. In the context of helmet design, R&D includes the use of CAD Drawing Programs to create detailed 3D models, which are then used to produce physical prototypes. These prototypes are tested against safety standards such as EN1078 and CPSC1203 to ensure they meet the required performance criteria. The R&D process is iterative, allowing designers to refine their designs based on test results and user feedback.

Research and Development

- Research and Development / Design
- Prototyping
- CAD
- 3D Modeling
- Testing
- Safety Standards
- Materials

3D Modeling

- 3D Modeling / CAD
- 3D Modeling / CAD
- 3D Modeling / CAD

Research and Development







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Helmet Shape 101



European Headform

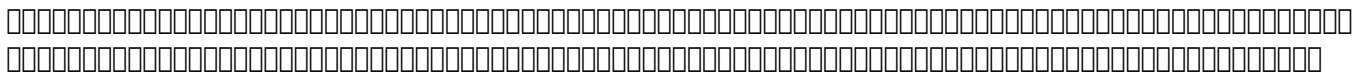
An Oval shaped helmet is designed for a rider's head with a dimension which is considerably fit for Europeans.

Generic headform

A generic headform helmet is designed for a rider's head with a dimension which is slightly longer front-to-back than its side-to-side measurement.

Asian headform

A Round shaped helmet is designed for a rider's head with a dimension which is condierably fit for Asians.



Our In-house Testing Lab



ISO9001 CE

CERTIFICATE



Aurora Sports 15 R&D

CUSTOMIZE FOR BRAND



Logo style: Dome, Metal, UV-Dart sticker, Water decal.



Process Flow

Client Brief → PC Design → PC Production → Mould Design → Mould Production → EPS Production → EPS Production → Mould Production → Mould Production → Mould Production → IQC → Mould Production → Mould Production → Mould Production → Mould Production → Mould Production → Mould Production → Mould Production

Production Procedure



Silk screen



PC blister tooling



PC blister manufacture



Trimming dug hole



Eps raw material by different density



EPS in-mold tooling



Helmet in-mold workshop



In-mold machines



In-mold tooling



In-mold producing process



semi-finished In-mold helmet



IQC inspection



Helmet grinding



Inner padding production



Plastic injection workshop



Assembly line



Inside labeling



Packing



Warehouse



Installed counters



International Express
International Express
International Express

SHIPPING

