

## **carbon fiber crash helmet CE EN1078, carbon half helmet cycling AU-U2**



### ***The description of carbon fiber crash helmet:***

**In-mould Carbon Construction:** The In-mould construction is a technique that directly fuses the shock absorbing EPS liner with the Polycarbonate shells and carbon piece to create a light weight and strong structure. The carbon fiber reinforcement adds additional strength in critical areas due to its great strength and impact distribution properties.

- Well-ventilated, with very cooling air tunnel and reasonable aero shape design.
- Three-dimensional duct design: This design is very aerodynamic drag coefficient is small , in the process of riding , people wear more cool.
- In-mold technology, when the helmet by the impact , the entire helmet uniform force.
- The high quality eco-friendly high temperature resistant PC shell.
- The high density black EPS material is imported from American,
- The bicycle accessories: adjustable chin strap with quick-release buckle; rear lock adjustment; cool insect-proof not comfortable pads;
- Certification: CE-EN1078 certified for impact protection.

### ***The specification of carbon fiber crash helmet :***

Model No.	AU-U2
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Material	EPS (Expanded Polystyrene) + PC (Polycarbonate) Shell + Carbon Fiber Enforcement Piece Bridge
Certification	CE EN1078
Vents	37 air vents
Color	Pantone, customized
size/head circumference	S/M (54-58CM) M/L (58-62CM)
Weight	250g
Sample Time	7 days
MOQ	300pcs
Package details	PP bag+individual color box packing+mastercarton

***The detail pictures of carbon fiber crash helmet :***





## ***The Customized accessories:***

There are four different helmet strap buckle for your freely choice:

- Standard ITW brand Nylon helmet buckle
- Traditional helmet buckle
- Patent self-developed magnetic buckle (the comprehensive safety, functionality and great ease of use of helmets with the "one-hand fastener", with strong magnets make them easy to close and open, very convenient and safe).
- Fidlock brand magnetic buckle.

Customized varieties colors of helmet accessories for your freely choice:

- Available helmet lockable strap divider in varieties color.
- Available helmet strap buckle in varieties colors.
- Available helmet strap holder in varieties colors.

## Buckle Options



B001



ITW standard helmet buckle



Traditional helmet buckle



B002



Patent self-developed magnetic buckle



Fidlock magnetic buckle



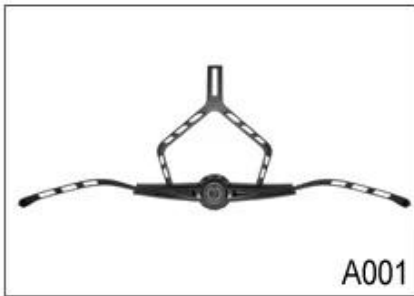
B003



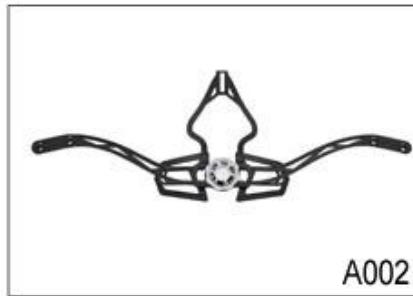
We can also customize various colors buckle.

Don't be surprised! As a factory with 23-year R&D experience, we have developed a series of adjustments for different helmets & comply with different helmet designs! You can find Up & Down adjuster, Y shape adjuster, LED adjuster, full head adjuster, transparent adjuster, integrated adjuster, etc. all at our factory! What's more, in order to satisfy your brand demand, we can add logo stickers or customize your exclusive adjuster according to your design or idea! The multi-color combination of our adjustments is also one of its highlights. We promise every rotating dial adjustment is of well-made & can provide you a comfortable & stable fitting experience!

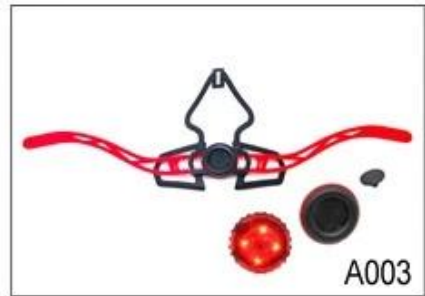
## Adjustment System Options



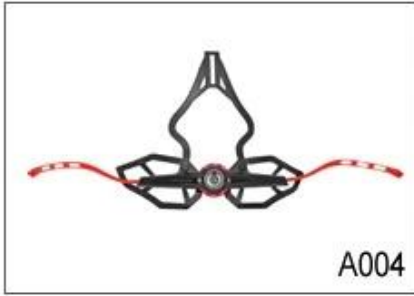
A001



A002



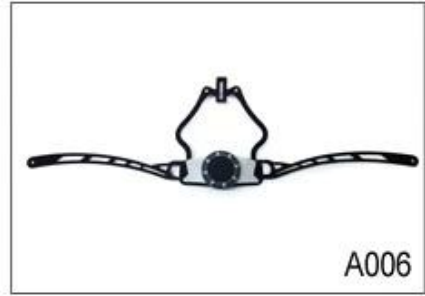
A003



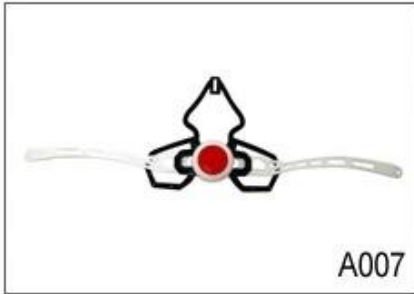
A004



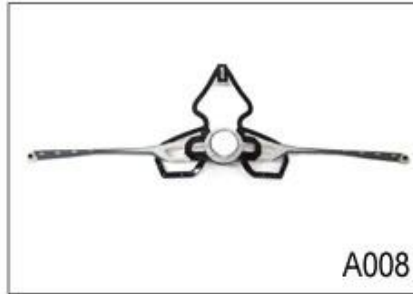
A005



A006



A007



A008



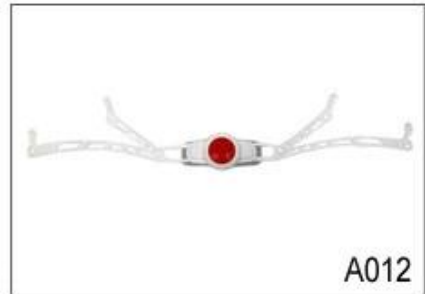
A009



A010



A011



A012

There different kinds of inner padding fabric options.

EVA pads: It is closed cell and impervious to water, has resilient feel.

Mesh pads: it can prevent dust and small insect fly into the helmet during wild riding.

Nylon pads: antibacterial and skin-friendly, easy to clean.

Velvet pads: very soft and comfortable feeling.

Cool max pads: very high-end, can keep the hair dry and cool during riding.

Low quality pads: easy broken after friction with hair, uncomfortable and hot.

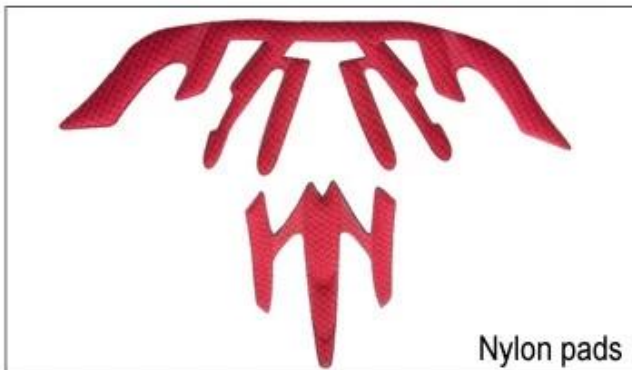
## Inner Padding Fabric Options



EVA pads



Mesh pads



Nylon pads



Velvet pads



Cool max pads



Low quality pads

### **Facility Show:**

1. Carbon Fiber Helmet made by Extrusion blow molding process

## Carbon fiber helmet mold in vacuum forming



2. Autoclave Processing (Vacuum bagged)

## Autoclave Processing (Vacuum bagged)



**Raw Material Show:**

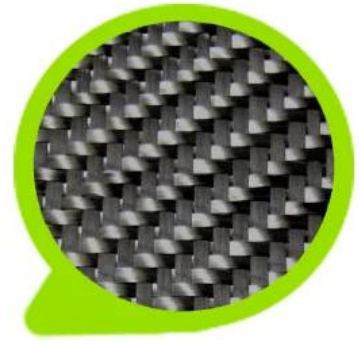




UD Tow



12k Tow



3k Tow



1k Tow



Spread Tow

### ***Certification:***

### ***The head circumference knowledge of carbon fiber icon helmet:***

#### **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 considerably fit for Asians.

# 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 considerably fit for Asians.

## ***Our Test lab:***

In order to manufacture quality helmets, we learn not only from the design theory, but also make progress from testing result! That's why our factory equipped with professional testing lab to ensure every design is practical & amenable! Our testing standard is more strict than the related certificate requirements, that's why we can promise the model that we provide can definitely pass the corresponding test by third-party!

## Our In-house Testing Lab



### ***Certification:***

Below is our certificate :we have ISO9001 ,letters patent ,CE documents ,and we have our own lab to make sure every our product can meet the testing requirements

# CERTIFICATE



## Our factory's profile:

Aurora Sports is a helmet manufacturer, with more than 15 years experience in producing all types of helmets. In-house design and R&D teams with established experience, allows Aurora Sports to quickly answer to demanding requirements and create from scratch whole programs and collections with rigorous quality standards.

## CUSTOMIZE FOR BRAND



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



### ***The helmet production procedure is as below:***

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.

## 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

## WHY US:

### There are several advantages:

- Quality: with strict quality management system and first-class products
- OEM&ODM: We can provide OEM and ODM service for customers
- R&D team: With professional and independent technical development team
- Price: We have our own production line, to reduce the price to a minimum
- Patent: We constantly introduce patented technology products
- Service: Perfect after-sales service, so customer satisfaction