



KR.KARMOR.COM



KARMOR SHOP



TOUR WITH NANUX

**NANUX**  
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\* Specifications are subject to change for improvement without notice.

2021 EN



 **KARMOR**



Think about the essential value  
of the cycling helmet.

# Brand Story

## **CHALLENGE YOURSELF!**

KARMOR are trying constantly to help passionate riders fully focus on their challenges, who never stops challenging themselves. Go beyond your limits with KARMOR, right now!

## **DEVELOPER**

There's no helmet without considering riders' safety. Safety and Fit is the ultimate goal of KARMOR helmet development to achieve. To be recognized by more cyclists who enjoy riding experiences, KARMOR keeps moving forward pursuing better performance and style.

## **ABOUT CYCLING HELMET**

Ensuring safety is KARMOR's top priority to help passionate riders who never stops challenging themselves with enjoying and focusing on cycling itself.

KARMOR helmet gives you comfort as if you are not wearing it and stability of nice snug fit for your head.



# Mission

Our mission is to contribute to creating a society where everyone can ride a bicycle safely and enjoyably.

# Vision

Our vision is about providing comfort to all riders and making helmets that are recognized by them. Our ongoing challenge is to create a new ideas for helmets and rider needs and innovations.



# Sponsorship

Since 2017, we have been sponsoring professional athletes, testing and researching products and striving to make more complete products. Especially, in 2020, we sponsored the Dutch Junior WWW (Willebrord Wil Vooruit) team and have developed special helmets only for them. Through our sponsorship program, We will keep supporting the passion of athletes and will do their best to develop better products.



LX Cycling Team



Daejeon City Hall Heo Min-ho



Dutch Junior Team WWW



Adventure across  
the city and nature





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# Karmor's R&D Story

All employees involved in the development of the KARMOR helmet are committed to developing products that are light but durable and that maximize the rider's performance.

Our passion for technology is the driving force for questioning and expanding the possibilities. As a result of this helmets with excellent performance were developed and riders broke their limits.

## WHY?

What is the best helmet for us? What is a better fit? What makes it better? If so, let's make our helmet! We started from this idea.

## KARMOR 1.0 1st GENERATION

The helmet must provide as much comfort as possible and ensure the safety of all riders. And in January 2015! The Comer Helmet was officially born.

## KARMOR 2.0 2nd GENERATION

Providing comfort is one of the key points in maximizing riders performance.

It is now showing the result of a step forward through the process of integrating aerodynamic and ventilation functions into the design as well as comfort. It also allows you to create different styles for more enjoyable cycling.



1st GENERATION	ENTRY	MID	HIGH
2nd GENERATION	 <p>ASMA</p>	 <p>FEROX</p>  <p>DITRO</p>	 <p>MELANO</p>  <p>BREEO</p>  <p>FIANZA</p>  <p>PRENDA</p>  <p>VELIANT</p>

# Technology

## More advanced Safety system

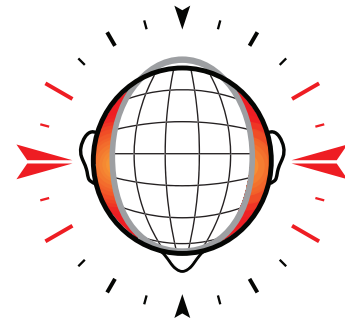
KARMOR helmets was born through collaboration with sponsorship riders, constant testing and verification to develop better products.

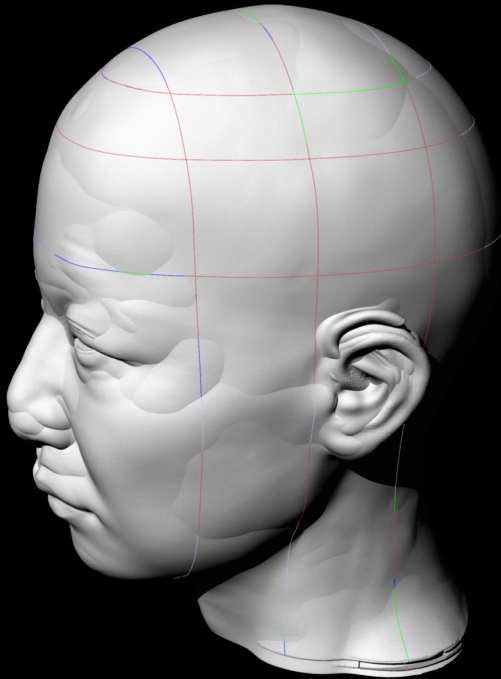
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### KARMOR FIT

Right idea on fit leads to right fit,  
that's where complete performance comes from.

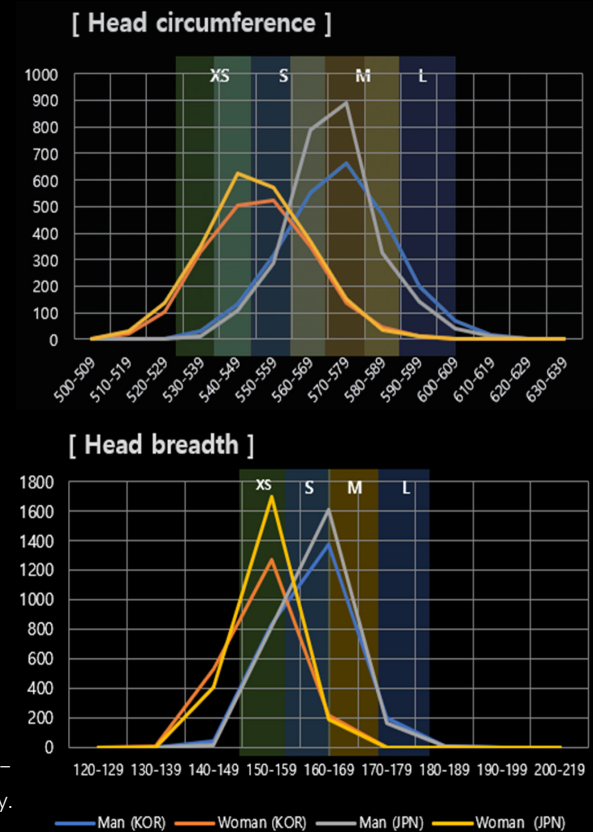
Research and optimization through 3D head shape analysis  
with 13 categories gives you the most ideal comfort





### 3D HEAD GEOMETRY

KARMOR Helmet contains integrated structure of 2D human body size data and 3D overhead scan data. By securing an optimized design foundation for Asians through analysis, We realized KARMOR 3D Head Geometry.





## SHOCK PROTECTION SYSTEM

Application of lightweight shock absorbing materials to protect temporal bones which are most vulnerable to impact among cranial bones.  
With 3 layered structure of PC shell, PORON, EPS, it protects cranial bones more effectively.



\* Colors of products : examples

\*Shock absorbing and mitigation stucture in 3 stages

VELIANT shock absorbing material



VELIANT Exterior



\* Extra pads of slow rebound foam material for better fit

VELIANT Inside



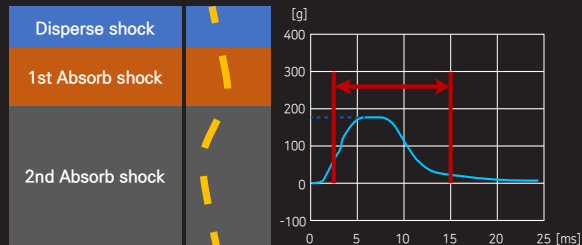
VELIANT exploded view

## SELF IMPACT TEST

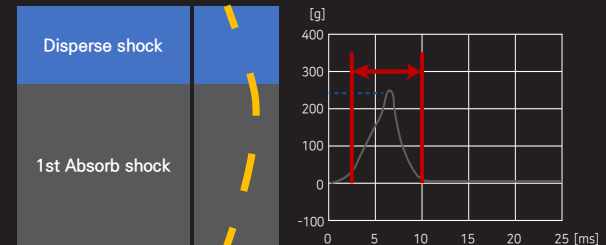
KARMOR helmets verify its reliable safety by means of mechanical tests. We check out energy absorption of our products by dropping a crash test dummy from a 1.5m altitude. Furthermore, we carry out other safety tests under various circumstances.



## SHOCK PROTECTOR PART



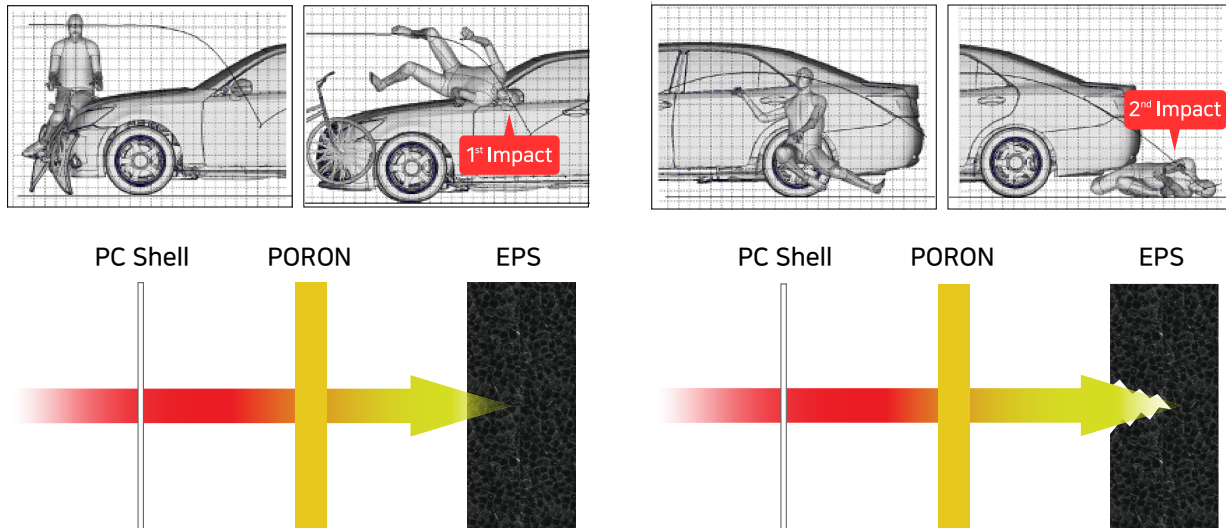
## THE OTHER PART ON HEAD



Safe protection of cranial bones with application of shock absorption structure and material to mitigate and absorb external shock in 3 stages

## SECONDARY SHOCK ABSORPTION (REPEATED SHOCK ABSORBANCE)

Observation on types of bike-car accident shows the possibility of repeated shock on cranium because the primary shock from the collision with the vehicle leads to the secondary shock of riders' falling down to the ground. With its internal PORON materials absorbing repeated impact, SHOCK PROTECTION SYSTEM technology prevents the head injury as much as possible though EPS is damaged due to the primary shock.

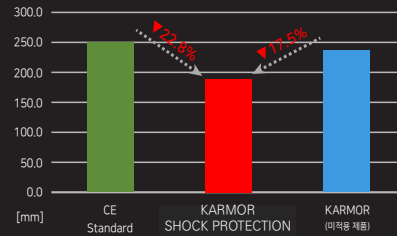




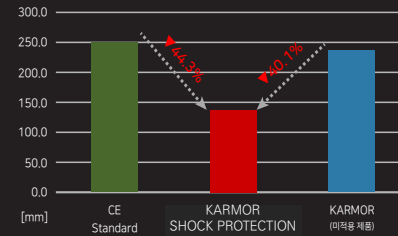
Test Standard	CE EN 1078	Drop Mass	4.7kg
Test Anvil	Plane Anvil	Collision Point of Helmet	Side
Test Height	Primary 1,497.8mm (Bike Speed approximately 40km/h) / Secondary 500.0mm (Bike Speed approximately 14km/h)		



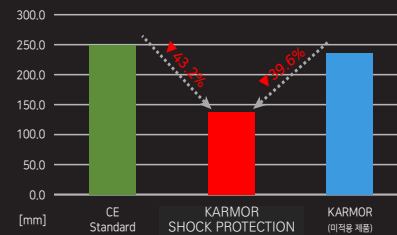
Side Primary Shock Free Fall Height



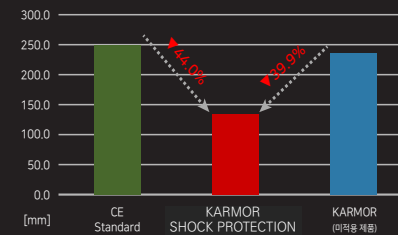
Side Secondary Shock Free Fall Height



Top Primary Shock Free Fall Height



Top Secondary Shock Free Fall Height



WITH THE APPLICATION OF SHOCK PROTECTION TECHNOLOGY, shock absorptiveness is improved up to 24.5% (primary shock) and repeated shock absorptiveness up to 47.3% (secondary shock) compared to other models of ours.

## MATERIALS AND ACCESSORIES

KARMOR uses PORON material\* with excellent shock absorption, ergonomic Fit and BOA dial for safely mounting to put user safety first.



### PORON MATERIAL \*

PORON Technology has comfortable, light, flexible and soft features but also is designed to meet the needs of protective paddings under the condition of strong shock, which is considered as most important when used. PORON Technology is clearly different from other materials, especially at high speed impacts, and when impacted, it quickly disperses damage and absorbs up to 90% of energy.



### BOA FIT SYSTEM

Wire type fit system. Fine-tuning available at the interval of 1 mm and the wire of 2 lines holds larger part and helps you feel more pleasant and tight fit.



### FS1(DIAL)

Low profile, maximum comfort. Designed to enhance helmets to a higher level, FS 1 Dial offers excellent fit of accuracy with little adjustments back and forth. Grip on dial is designed to not slip even when adjusting with wet, oily or sweaty hands.

### CS1(CABLE)

Using stainless steel of 49 strands wrapped with nylon, the bend strength CS1 cable made possible with less force has extreme resistance to abrasion that can be caused by dust, crumbs and water.



## TECHNOLOGY ICON



### KARMOR HEAD GEOMETRY

A thorough 3D analysis of 13 items for Asian heads offers a seamless and comfortable sense of fit



### EVOLVE 3D FIT

We offer two types of pads. Please select and use according to the shape of your head.



### DUAL SHOCK ABSORPTION SYSTEM (SHOCK PROTECTION)

A dual impact system for the protection of the temporal bone, which is the most vulnerable to impact in the skull area. The application of lightweight PORON material makes it both light and safe at the same time



### COMBINATION FRAME

This reduces the impact and strengthens the front structure. It is a frame with a combined function and shows effect that makes the air hole look bigger.



### BOA FIT SYSTEM

It is a wire-type fit system that can be finely adjusted in 1mm intervals, and two lines of wire hold a wide area, providing a comfortable and firm fit.



### ERGONOMIC DIVIDER

Comfortable structure based on ergonomic design. It can be adjusted up and down.



### IMPROVED VENTILATION STRUCTURE

With a larger air hole structure allowing more cold air to flow into the interior, the central air holes are placed at the shortest distance to the main hot spot (crown of the head) where the heat is most accumulated, to quickly lower the temperature.



### 3-SHELL IN-MOLD

Shock absorber PC shell

## EXCHANGE AND PURCHASE SUPPORT PROGRAM (Crash Replacement)

Exchange and Purchase Support Program (Crash Replacement)

This program is a part of KARMOR's campaign to pursue safe riding, as a brand that puts top priority on riders' safety and ensures the safety of its customers as well.

If you purchased a KARMOR helmet and the helmet was damaged for any reason, it is a program that supports the exchange or purchase of replacements from NANUX Networks.

### CRITERIA

#### 1) FREE EXCHANGE

Within one year of purchase date, if the KARMOR helmet distributed by NANUX Networks is damaged,

#### 2) 50% PURCHASE SUPPORT

More than one year from the purchase date, if KARMOR helmet distributed by NANUX Networks is damaged in an accident, you can purchase it at a 50% discounted price. In the case of a purchased replacement, the program is additionally applied on the basis of the purchase receipt issued by the relevant store.



KARMOR Super Warranty





***Veliant***



VELIANT





# ***Veliant***



## **Believe in yourself!**

Totally ready for the race!

A helmet helping you fully rely on yourself, focus on the race

With unparalleled fit through frame and fit system, VELIANT will stay with you till the moment of your victory

## **Find your passion**

Performance: Craving for victory VELIAN, a helmet awakening your passion!

Style(Fit): Confidence in style is for the passion of the rider.

# ***Veliant***

**Believe in yourself!**



## **VELOCITY**

Considering airflow, designed to realize aerodynamics.

## **VENTILATION**

Easy and optimized ventilation system.

## **VISIBILITY**

Impact absorbing concept and fit system Aero effects, integration of design and function Our confidence in style goes for riders' passion

Craving for victory  
**VELIANT**, a helmet awakening  
 your passion!



SUNSET VIOLET

VELIANT	Circumference (mm)	Width (mm)	Weight (g)
S/M	550~580	153~168	260±5g
L	590~600	169~176	290±5g



BOA



IN - MOLD

NEW



SUNSET VIOLET



AURORA



MATT BLACK



WHITE



TITANIUM SILVER BLACK



A male cyclist is shown in a dynamic, low-cadence riding posture on a road bike. He is wearing a black short-sleeved cycling jersey, black shorts, a white and black aerodynamic helmet, and colorful reflective sunglasses. His hands are on the handlebars, which have white tape with black patterns. The background is a blurred city street with a metal railing and greenery, suggesting motion. The word "Fianza" is overlaid in a stylized white font on the left side of the image.

***Fianza***

Daejeon City Hall Heo Min-ho





FIANZA



This image will be produced and may differ from the actual image.

***Fianza***



# ***Fianza***



## **Maximizing the basics, all-round helmet FIANZA**

FIANZA is a finish designed to develop layered products that are the basics that helmets should have: comfort, ventilation and safety. An all-round helmet with a sophisticated design that reinforces safety by applying the helmet side shock absorbing material (Poron) along with the fit that is unique to KARMOR.

## **KARMOR FIT!**

From the early Korean of head KOREAN FIT, research and development of a true ASIAN FIT model is continuing through 3D analysis of head specimens of Asian and European people, and we will try to provide a more comfortable and safe helmet.





***Fianza***

This image will be produced and may differ from the actual image.



Karmor's unique fit, new answer to safety,  
Maximizing the basics, all-round helmet  
**FIANZA**

FIANZA	Circumference (mm)	Width (mm)	Weight (g)
S/M	550~580	153~168	235±5g
L	590~600	169~176	260±5g



BOA



NEW



SUNSET VIOLET

NEW



AURORA

NEW



TITANIUM SILVER BLACK



BLACK



WHITE



BLACK / BLUE



BLACK / WHITE



BLACK / RED





# Prenda

New and trendy design  
KARMOR's unique fit, a new answer to  
safety **PRENDA**

A helmet used for city riding such as going to school or commuting using a bicycle or smart mobility. It can be used when enjoying various bicycles and leisure activities such as City bikes, Mini velo, electric bicycles, and smart mobility.

We have added new experiences and free style that you can feel while commuting on a bicycle through the forest of bicycle roads and urban buildings.

PRENDA	Circumference (mm)	Width (mm)	Weight (g)
S/M	550-580	153-168	263 ±5g
L	590-600	169-176	282 ±5g



BRITISH GREEN



SANDBEIGE / BLACK



MATT BLACK



WHITE





# ***Breco***

Anytime, Anywhere, Anybody!  
BRECO, a sports helmet that adds the style  
to your cycling life **BRECO**

## **Air flow optimization system**

Aerodynamic design with ventilation

## **High safety and durability**

Easy and quick control, ergonomic design

## **Detachable and washable anti-friction chin strap pad**

Hollow strap with open inside for ventilation

BRECO	Circumference (mm)	Width (mm)	Weight (g)
S/M	550~580	153~168	240 ± 5g
L	590~600	169~176	260 ± 5g

BREED



BLACK / WHITE



BLACK



RED / BLACK



WHITE



BLUE / BLACK



***melano***







***melano***



Optimized for racing and time trials  
Lightweight aero helmet **MELANO**



BLACK



WHITE



MELANO is a design that integrates aerodynamic performance, enhancing the speed and flow of air while providing optimal driving for the rider.

MELANO	Circumference (mm)	Width (mm)	Weight (g)
S/M	550~580	153~168	218±5g
L	590~600	169~176	245±5g





# ***ditro***

## Trust that can move without hesitation **DITRO**

Proven performance with ergonomic design and aerodynamic testing with Road Helmet DITRO.

### **Comfortable fit and excellent fit**

The original Y-shaped strap that makes it easy to apply and adjust the 4-step height adjustment BOA system.

### **High safety and durability**

Reinforced frame for durability and application of reflective stickers to support visibility when riding at night.

### **Including basic aero cover**

We provide aero covers according to the color of the helmet.

### **Optimal ventilation, comfortable fit, Antibacterial & sweat-absorbing quick-drying**

Maximized ventilation system and aerodynamic design, independent endothelium provided separately, Quantex inner pad.

Detachable and washable luxury artificial leather chin strap pad.

DITRO	Circumference (mm)	Width (mm)	Weight (g)
S/M	550~580	153~168	230±5g
L	590~600	169~176	260±5g



NAVY



WHITE



WHITE/NAVY



BLACK



WHITE/BLACK



WHITE/RED





# ***FEROX***

## Perfect riding passion, **FEROX**

The ergonomic design for easy and quick control and comfortable fit, and delicate and detailed features enable your riding passion.

### **Sandwich structure**

Pursuing protection performance while being lightweight

### **Apply vertical 8-stages adjustment system**

Comfortable and excellent fit

### **Bilateral Symmetry Divider**

Easy and quick control, ergonomic design

### **Standalone Endothelium Provided Separately, Quantex Inner Pad**

Smooth ventilation, comfortable fit, antibacterial / sweat-absorbing quick-drying function

### **Detachable and washable anti-friction chin strap pad**

Hollow strap with open inside for ventilation

FEROX	Circumference (mm)	Width (mm)	Weight (g)
S/M	550~580	153~168	242 ± 5g
L	590~600	169~176	272 ± 5g



BLACK/BLUE



WHITE



BLACK



BLACK/RED



# ***asma***

Awaken your instinct to run in barren  
everyday life. **ASMA**

It was developed with all our heart and soul so that more riders, regardless  
of age or gender, can enjoy the original fit and safety only for KARMOR.

## **KARMOR-FIT**

Pleasant and comfortable fit

## **Air flow optimization system**

Aerodynamic design with breathability in mind

## **High safety and durability**

Easy and quick control, ergonomic design

ASMA	Circumference (mm)	Width (mm)	Weight (g)
S / M	550~580	153~168	245 ± 5g
L	590~600	169~176	265 ± 5g



BLACK/RED



BLACK



WHITE



WHITE/BLACK



WHITE/ORANGE



LIME



BLACK/PINK

# KARMOR PRODUCT LINE UP

***Veliant***

NEW



***Fianza***

NEW

NEW

NEW



**Prenda**



***Breeo***





***melano***



***ditro***



***FEROX***



***asma***

