



Arai
HELMETS

PROFESSION



THE ARAI DIFFERENCE

When you think about how a helmet works to protect the head inside, if you think of absorption of the impact, you are partly correct.

That is, there is a limit to the amount of energy any helmet can manage to absorb. In this regard, it may be worth noting that the impact test speed for absorption by most standards is less than 28 km/h.

As the kinetic energy goes up in proportion to the square of speed, the amount of energy involved in a real crash can be far bigger than the level any make of helmet can manage to absorb.

However, the basic function of a helmet protecting the head from a severe blow of an impact is not only absorption.

As many riding impacts are off center, or come at an angle, the intrusion of energy might be diminished as the helmet may skip or slide over obstacles avoiding some of the energy.

This enhances the chance that energy getting into the helmet stays within the level absorption could handle. We refer to this as Glancing Off.

Did you know Arai is one of very few in the world aware of the importance of Glancing Off?

Witnessing such scenes repeatedly, Arai has come to believe that Glancing Off of the impact energy is a key to the enhanced head protection by helmets, and Arai has been working to elevate its level ever since.

Although there has been no literature or article referring to Glancing Off, we have studied the principles and functions of it through our own experiences and have been working to enhance its effectiveness independently.

The basis of Glancing Off is undoubtedly a Rounder, Smoother and Stronger Shell, but when it comes to designing the structure of it on that basis, there has been no simple solution or magic wand. The real crashes are too unpredictable.

Did you know what Arai has actually done to raise the performance level of Glancing Off?

We at Arai are proud to work for the protection of fellow riders, and feel it has become an important part in the meaning of our existence, but the unpredictable nature of some crash impacts can overwhelm even our helmets.

To live with such a fact, we have been struggling to enhance every aspect of a helmet's ability to protect, no matter how small, and believe there is always some room left for improvement hidden within the many details of Glancing Off, even though we did not know how much each improvement would add.

This accumulating, building and evolving of numerous improvements, for the enhancement of Glancing Off, has been the foundation of the difference of Arai through our long history.

Today, many in the world say that the protection performances shown by Arai are different from others.

There is an old saying; "The whole can be far greater than the sum of its parts." If you consider some extreme performances shown by Arai, you might find some truth in that old saying.

Even though most of those parts may not be readily visible or likely to serve as a sales feature, they contribute to the cost of seeking to improve performance. But we have come to be convinced that this is the way to the enhancement of head protection against severe and unpredictable crash impacts.

Knowing that no one and nothing is perfect, we believe these extra efforts are worth the additional costs, especially considering that what we are seeking to protect is priceless.



Michio Arai
Owner and CEO, Arai Helmet, LTD.

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Helmet



MODELS AT A GLANCE

FEATURES AND BENEFITS

● STANDARD | ○ OPTIONAL

	CORSAIR-X	QUANTUM-X	SIGNET-X	DEFIANT-X	REGENT-X	XD-4	VX-PRO4	RAM-X	CLASSIC-V	XC-W
PB-SNC₂ Shell: the Peripherally Belted Structural Net Composite Square shell is created from Super Fiber and special synthetic fibers assembled by Arai experts, and provides superb tensile strength and flexibility and also features Arai's newly developed resins resulting in even more strength with less weight.	●									
PB-SCL₂ Shell: the new Peripherally Belted Super Complex Laminate Construction shell combines multiple materials and techniques created internally by Arai over more than 6 decades of experience that deliver both performance and affordability.		●	●	●				●		
PB-CLC₂ Shell: the Peripherally Belted Complex Laminate Construction shell features a newly developed AR MAT which allows the Regent-X to achieve a lower cost without compromising weight or protection performance.					●					
PB-CLC Shell: the Peripherally Belted Complex Laminate Construction reinforces Arai's cLc shell for more strength and weight reduction adding more to Arai's accumulation of incremental improvements over decades of experience to pursue gains in protection.						●	●			
PB-CLC₂ Shell: the Peripherally Belted Complex Laminate Construction shell is the accumulation of years of Arai's experience in shell making, handmade with over 25 individual pieces bound by Arai's new proprietary resin and reinforced by the Peripheral Belt.									●	
cLc Shell: the Complex Laminate Construction contains a specially designed felt (AR MAT) that is sandwiched between the two layers of Super Fiber Laminate. The felt acts as a reinforcement layer without adding significantly to the weight of the helmet.										●
VAS Shield Mechanism: the Variable Axis System (VAS) incorporates a moving pivot point allowing for a lower shield mount position. A dual-function lever releases the cover plate and shield pin for quick shield removal.	●	●	●	●	●			●		
VAS Shield Demist Latch: this innovative latch captures and securely holds the shield closed to help resist unexpected opening. The demist function allows the shield to be opened just a bit while still fastened and is larger to allow for intuitive and seamless shield operation.	●	●	●	●	●					
VAS Max Vision BV Shield: this shield features brow vents and a cavity to receive the Pinlock lens insert and provides better visibility for all types of riding.	●	●	●	●	●					
Pinlock Lens Insert: this clear fog mitigating lens insert is made of a special material by Pinlock to absorb moisture and enhance visibility in all conditions.	●	●	●	●	○	○		●		
Pro Shade System: this shield system offers a convenient external shade to block ambient light, while functioning as an aerodynamic peak in the raised position.	○	○	○	○	○			●		
ES Chin Curtain: this curtain accentuates the egg-shaped form of the shell and blocks turbulent air from entering the underside; works with pull-down spoiler.	●	●	●	○						
Pull Down Spoiler: helps to minimize wind noise and turbulence, this movable piece under the chin also aids with the extraction of hot air from the rider's face.	●	●	●			●				
FCS® Cheek Pad Design: Arai's patented Facial Contour System adds just the right amount of support by moving out of the way when putting the helmet on, but once the helmet is on, cradling the rider's face and jaw area.	●	●	●	●	●	●	●			
5mm Peel-Off Layer: this removable layer gives the rider a micro-fitting option to easily adjust the cheek pads to one size thinner cheek pad.	●	●	●	●		●	●	●		
Emergency Release Cheek Pads: these allow for easier access to an injured rider by sliding out via integrated pull tabs built into the cheek pad underside.	●	●	●			●	●			
Removable Neck Roll Pad: this removable pad allows easier cleaning and replaceability along the rider's neck for sound insulation and comfort.	●	●	●	●			●			
Anti Microbial Interior Lining: exclusive liner with anti-microbial material stays fresher between cleanings.	●	●	●	●				●	●	
Dry Cool Interior Lining: for all day comfort this moisture wicking material keeps you cool and minimizes the buildup of sweat.						●	●			
Brushed Nylon Interior Lining: very comfortable soft material provides all day comfort for those long rides.					●					●
Outward-Flaring Hyper Ridge: flares out to provide a larger opening for easier ingress and egress; the reinforcement band circles the bottom of the shell adding strength and lowering the helmet's center of gravity.	●	●	●	●	●			●		
Hyper Ridge: the reinforcement band circles the bottom of the shell adding strength and lowering the helmet's center of gravity.						●	●		●	●
Brow Vents: gives you more cooling air in the temple and forehead area without holes in the critical forehead section of the shell or impact absorbing liner.	●	●	●	●	●	●		●		●
Cowl Exhaust Vent: exhausts heat more efficiently; these vents are sculpted into the rear shell shape for optimal aerodynamic characteristics.	●	●	●			●	●	●		●
Diffuser Type 12: these newly developed air diffusing top vent covers are 20mm longer than the previous design to improve stability and airflow.	●							●		
QVF Series Top Vents: the three-position front intake duct provides optimal cooling and aerodynamics.		●	●	●						
QVR Series Top Vents: this rear exhaust duct features a three position sliding lever and stabilizing aerodynamics for a smoother ride.		●	●	●						
Chin Vent Shutter: this closable gate in front of the center vent allows the rider to block out extreme weather conditions. Can be opened in warmer weather.	●	●	●		●	●	●			
Removable Peak: this adjustable sun-blocking piece shields your eyes from glare.						●	●			●



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Intermediate
Oval

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CORSAIR-X



CORSAIR-X

- 1. INTERNAL AIR CHANNEL:** Improved ventilation with an enhanced air extraction system, pulling hot/moist air from the eye port area through ducted channels behind the cheek pads that exhaust out the side cowl vents. This helps keep the rider cool and helps to reduce fogging.
- 2. PB-SNC² SHELL:** A new resin (Z Resin) developed and blended in house, bonds the many layers and materials of the shell more securely using less resin, improving shell strength as well as reducing weight. The proprietary Super Fiber and special synthetic reinforcing fibers allow Arai to produce a stronger, yet lighter shell with excellent Glancing Off properties. The addition of the internal Structural net and Peripheral belt further strengthen the shell with minimal increase to weight or thickness.
- 3. IC DUCTS:** The center IC Duct5 takes in 11% more air and the Type-12 diffuser intakes each take in 19% more air than the previous designs. All use a three-position slide gate to improve sealing for reduced noise and water intrusion. All Arai vents are lightly mounted to remain frangible, so they easily come off in an impact so as not to snag on obstacles or cause excess rotational force.
- 4. SHIELD LATCH:** The VAS latch captures and securely holds the shield closed to help resist unexpected opening. In addition to the de-mist function, the larger latch allows for intuitive and seamless shield operation, even with heavy gloves. Even in the de-mist position, the shield has a positive stop to resist unintentional opening, but with a slight pull on the lift tab to clear this stop the shield simply lifts with ease.

FOR MORE DETAILS VISIT THE ARAI WEBSITE AT ARAIAMERICAS.com



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NEW

Van Der Mark

XS	09-24443
S	09-24444
M	09-24445
L	09-24446
XL	09-24447
<u>2XL</u>	<u>09-24448</u>

(H)



NEW

Haslam 8

XS	09-24433
S	09-24434
M	09-24435
L	09-24436
XL	09-24437
<u>2XL</u>	<u>09-24438</u>

(H)



Bracket Fl. Yellow

XS	09-22223
S	09-22224
M	09-22225
L	09-22226
XL	09-22227
<u>2XL</u>	<u>09-22228</u>

(H)



Bracket Black Frost

XS	09-22203
S	09-22204
M	09-22205
L	09-22206
XL	09-22207
<u>2XL</u>	<u>09-22208</u>

(H)



Dani Samurai-2 Black

XS	09-2043
S	09-2044
M	09-2045
L	09-2046
XL	09-2047
<u>2XL</u>	<u>09-2048</u>

(H)



Vinales-4

XS	09-24413
S	09-24414
M	09-24415
L	09-24416
XL	09-24417
<u>2XL</u>	<u>09-24418</u>

(H)



CORSAIR-X

P/N Key: XXS-2, XS-3, S-4, M-5, L-6, XL-7, XXL-8 (e.g. 09-245x)



Dani Samurai-2 Blue

09-205x
(H)



Spencer 40th Red

09-206x
(H)



Spencer 40th Silver

09-207x
(H)



Mamola Edge Red

09-208x
(H)



Mamola Edge White

09-209x
(H)



Nakasuga-2

09-2158x
(H)



Rea 5

09-2218x
(H)



Bracket White Frost

09-2221x
(H)



Nakagami-2

09-231x
(H)



Hayden Laguna

09-2421x
(H)



Kiyonari Frost

09-2442x
(H)



CB Black

09-247x
(H)



CB Grey Frost

09-248x
(H)



CB Red

09-249x
(H)



Nakano

09-239x
(H)



Vinales-3

09-244x
(H)



Bracket Fl. Red

09-2219x
(H)



IOM TT

09-223x
(H)



HRC

09-228x
(H)



Ghost Red

09-233x
(H)



Scope Black Frost

09-241x
(H)



Scope White

09-240x
(H)

NOTE: Part numbers in **RED** are Non-current, therefore "while supply lasts".

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Helmet



CORSAIR-X Solid



White

XS	09-2003
S	09-2004
M	09-2005
L	09-2006
XL	09-2007
<u>2XL</u>	<u>09-2008</u>
(H)	



Black

XS	09-2013
S	09-2014
M	09-2015
L	09-2016
XL	09-2017
<u>2XL</u>	<u>09-2018</u>
(H)	



Black Frost

XS	09-2033
S	09-2034
M	09-2035
L	09-2036
XL	09-2037
<u>2XL</u>	<u>09-2038</u>
(H)	



Aluminum Silver

XS	09-2023
S	09-2024
M	09-2025
L	09-2026
XL	09-2027
<u>2XL</u>	<u>09-2028</u>
(H)	

O.E. VAS-V Shields/Options

Shield Max-V, Clear	10-P1057
Shield Max-V, Light Tint	10-P1056
Shield Max-V, Dark Tint	10-P1058
Note: Above require Insert #1057C-120 sold separately	
<u>Pin-Lock Anti-Fog Insert</u>	<u>10-P1057C</u>
<u>VAS Pro Shade System</u>	<u>10-P1070</u>
Mirror Shield Silver*	10-P1095
Mirror Shield Red/Org*	10-P1096
Mirror Shield Blue*	10-P1097
Mirror Shield Green*	10-P1098

(A) **Note:** *Mirror Shields not compatible with Pinlock Inserts

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Helmets