

2018



*Campagnolo*<sup>®</sup>

Technology and emotion





# WHEELS

CAMPAGNOLO® WHEEL ADVANTAGE

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# DISC BRAKE PROJECT

## CAMPAGNOLO® DISC BRAKE WHEELS

With the arrival of disc brakes into the ranks of not only the professional peloton but also amongst competitive and passionate cyclists all over the world, the demand for a disc brake wheelset truly worthy of the Campagnolo® name made the development of such a wheel a necessity.

**As a result, Campagnolo® engineers have worked tirelessly to create wheels those will come to represent the same standard for quality and performance as its rim-brake counterpart.**

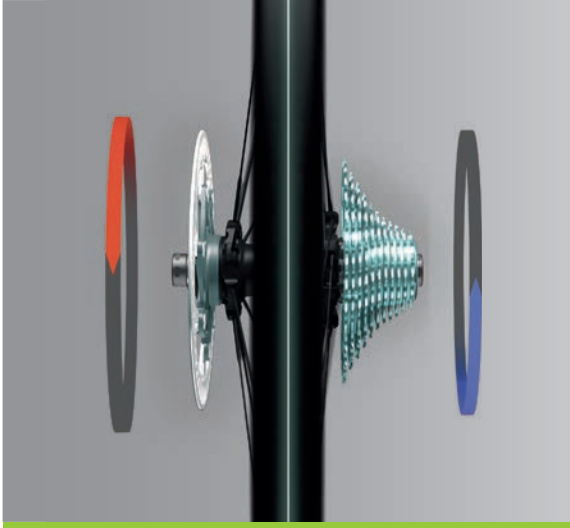
As disc brake transmissions become ever more popular, many brands have rushed to improvise disc brake wheelsets by simply taking the rims from their rim-brake offering and lacing them to disc brake hubs. Campagnolo® regards this as a compromise in performance, reliability and product integrity.

In fact, for the front wheel the braking forces on the disc side require an additional structural design. Just as occurs in the rear wheel, the asymmetric forces are combatted by using the G3™ spoke design. The front wheel utilises the double spokes on the disc side.

With the incorporation of Mega-G3™ spoke pattern, the hub manages the asymmetric forces generated by the disc brakes.



Modified version of the famous G3™ spoke pattern on the rear wheel



One piece solid construction to compensate for asymmetric forces from disc brakes



Modified version of the famous G3™ spoke pattern on the front wheel



## AC3™ (ALL CONDITIONS CARBON CONTROL) RIM TECHNOLOGY

It is a general consensus of opinion within the cycling world is that one of the major drawbacks of the carbon fibre racing rim is the reduced rim braking performance in the wet.

To combat this problem Campagnolo® has developed the All Conditions Carbon Control, or AC3™ Technology. The introduction of the meticulously researched textured design of the rim brake area creates a surefooted stopping power that is reliable and potent no matter what the weather will throw at you.

On the Campagnolo® Bora™ rim brake wheelset range, under dry conditions, the new technology increases braking performance by 3% compared to the previous Bora™ while increasing the distance from its closest competitor by over 6%.

However, it is when the weather conditions deteriorate that the AC3™ technology permits the Bora™ to excel increasing braking performance an astonishing 43% over previous Campagnolo® models. **The powerful braking of AC3™ represents a nearly 55% performance gap over that of its closest competitor making for a significant advantage when the heat of the race is on.**



## CULT™: CERAMIC ULTIMATE LEVEL TECHNOLOGY

A truly efficient wheel is not only aerodynamically efficient but also must roll as smoothly as possible.

Technologically advanced superior quality ceramic bearings in addition to the precision machining of the cup/cone structure and absence of grease drastically reduce friction and increase the smoothness of the wheel by as much as 9 times when compared to standard bearings. An outstanding result achieved by using cutting-edge technologies in the field of materials processing. Laboratory tests prove the efficiency of CULT™ technology. Spinning a wheel with CULT™ technology at 500 RPM and allowing it to decelerate show the Campagnolo® wheel to continue its motion for a full 45 minutes. **In other words, CULT™ ceramic bearings are 9 times more efficient than standard bearings, allowing you to waste less energy, increase your speed and push your limits even farther.**



## USB™: CERAMIC ULTRA SMOOTH BEARINGS

Campagnolo® has a long-standing reputation for the extremely high performance of its hubs in terms of smoothness and reliability. In fact, all the projects are entirely developed in our R&D department and we have put obsessive care into taking care of every detail. The hubs with USB™ ceramic bearings (ULTRA SMOOTH BEARINGS) increase smoothness, decrease rolling resistance, reduce weight and reduce the need for maintenance. **Comparative tests have shown that USB™ bearings are 50% smoother than standard bearings.** Now improving your performance during the race or simply going for a ride with your friends will be easier.





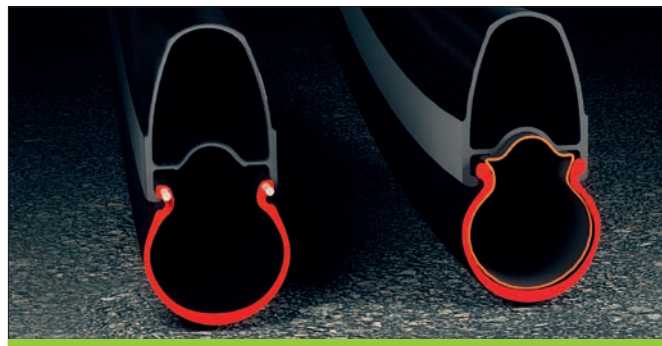
### 2-Way Fit™ technology makes it possible to mount either tubless or clincher tires on the same rim.

With 2-Way Fit™ Campagnolo® customers can decide on any given day to use either clincher or tubless tires as the wheel is perfectly compatible with both systems.

With no doubt tubeless tires are the future of road cycling. Apart from greater comfort, the advantages are many: using a tubeless tire you can exploit the greater smoothness due to the absence of friction between the tire and the tube. There are no risks of sudden deflation when a tubeless tire is punctured, a great advantage in terms of safety.

The lack of tubes eliminates puncture risks.

And what if the tubeless tire has a puncture? The Campagnolo® 2-Way Fit™ system allows you to use a traditional inner tube by simply removing the hermetic closure valve to ride home with no problem.



The tubeless tire does not have an inner tube and consequently there is no risk of sudden deflation due to punctures.



The tubeless tire rolls more smoothly thanks to the absence of friction between tire and inner tube.

## MoMag™

### What is MoMag?

A technology that offers several advantages to the structural integrity of the wheel as well as eliminating the need for rim tape. The name derives from "Mounting Magnet" system, shortened to MoMag™.

### How does it work?

The nipples, once inserted inside the rim via the valve hole, are "guided" to the point of connection with the spoke by means of the magnet. This simple but ingenious system makes it possible to have a wheel without holes on the upper bridge, but with spokes tensioned by traditional nipples!

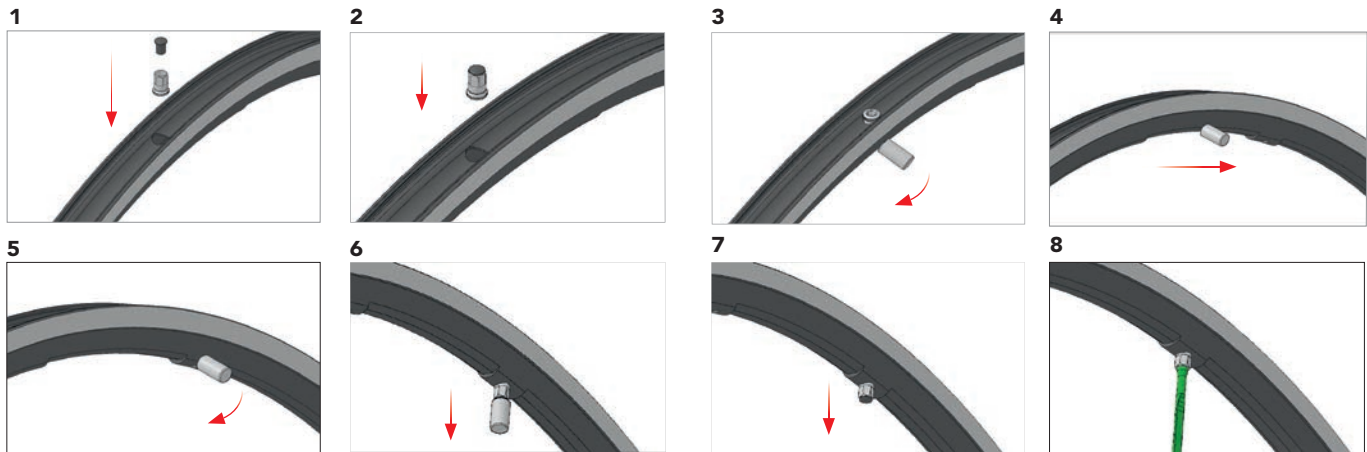
### Advantages

No holes on the rim means that the rim is uniform at every point, free from stress points or zones of weakness and, for the clincher profiles no rim tape is required, to the benefit of weight reduction.

The advantages are immediately clear: greater rim lifetime, greater resistance to fatigue, the possibility to give the spokes greater tension, and greater stiffness which, in terms of performance, mean greater reactivity and acceleration.

But that's not all. The advantages also include extremely quick and simple maintenance and spoke replacement.

All to the benefit of cyclists who choose Campagnolo®.



### G3™ geometry: we have reinvented the wheel ... not just its look.

Campagnolo® has developed an assembly architecture which, compared with a traditional wheel, makes it possible to improve energy transfer, reduce the stress on the spokes on the right and increase transverse rigidity. This is achieved because in G3™ geometry the right-hand side of the rear wheel is fitted with twice as many spokes as the left.

The results of G3™ system are truly extraordinary: better transfer of the driving torque, better lateral rigidity, reduction of the stress in the rear wheel spokes. And thanks to the G3™ system that compensates for the forces acting on the 2 sides of the wheel, there are no more wheel vibrations, even for heavier people.

In 2014 G3™ becomes Mega-G3™ thanks to the oversize flange and an increase in lateral and torsional stiffness results.



## SPOKE ANTI-ROTATION SYSTEM

The Campagnolo® Bora™ Ultra, Bora™ One, Bullet™ Ultra, Bullet™, Shamal™, Eurus™, Zonda™ and Scirocco™ wheels feature a spoke antirotation system patented by Campagnolo® that raises spoke performance to an unprecedented level.

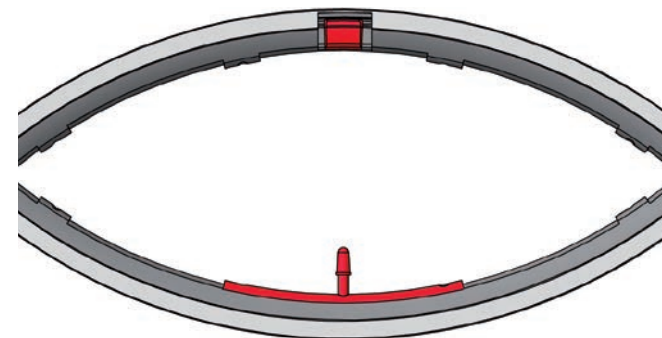
Campagnolo® designers studied the spoke-hub interface from the ground up to create a coupling system that would keep the spokes always in the exact identical position. This means that the spokes of Campagnolo® wheels do not rotate, so there is no loss of tension during use and the aerodynamic penetration is not compromised.



## DYNAMIC BALANCE™

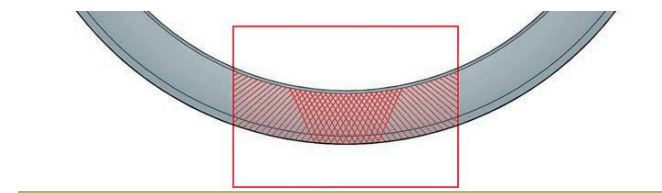
### RIM DYNAMIC BALANCE™ – ALUMINUM WHEELS

The concept is simple and elegant: balance the weight of the gasket, with an item of similar weight placed on the exact opposite side. For top models, this is obtained by a special operation on the section of the rim opposite the rim joint.



### RIM DYNAMIC BALANCE™ – CARBON WHEELS

For carbon wheels the principle is the same, but applied using a different technology. When making carbon rims, the pieces of carbon fabric are aligned in such a manner that the resulting rim is always balanced.





## CAMPAGNOLO<sup>®</sup> AND CERTILOGO<sup>®</sup> AGAINST COUNTERFEITING: A TANGIBLE ANSWER THAT PROTECTS OUR CLIENTS' SAFETY AND PURCHASES.

Top-end Campagnolo<sup>®</sup> wheels are considered by the market and by aficionados to be reference products and as such are highly desirable. They have therefore also become appetizing to counterfeiters who have cloned some of our models (especially those in carbon fiber) releasing considerable numbers onto the international markets.

The wheel is a performance product, but also a safety component. This aspect means that those who purchase a fake product, while saving money on something that clearly costs much less than the going market price, puts their personal safety at great risk. The materials and production processes that together help to achieve a safe performing product are obviously not the same.

With the aim of fighting and combating these counterfeiters, Campagnolo<sup>®</sup> is the first in the cycling sector to have put in place, thanks to the support of Certilogo<sup>®</sup>, a control system that enables our clients to authenticate the product simply and immediately.

Starting with the products in the 2015 catalogue, each pair of Campagnolo<sup>®</sup> wheels in the Bora™ and Hyperon™ lines (see details) comes with an individual ID code (the Certilogo<sup>®</sup> Code or CLG Code) on a swing tag attached to a spoke of the wheel.

The tag will comprise a Certilogo<sup>®</sup> Code (in both numerical and QR code) that allows anyone, before or after purchase to check that the product is authentic. To authenticate Campagnolo<sup>®</sup> wheels, just visit [www.certilogo.com](http://www.certilogo.com), insert the CLG Code given on the tag or download the Certilogo APP free from Apple Store.

The tag will also have a Security Code covered by a silver stripe (technology similar to that used on mobile top-up cards). In certain circumstances, the end user (and only the end user) may be required to enter this code by Certilogo<sup>®</sup>. This countercheck may be useful, for example, in the case of online sales (when the client has no guarantee that the product viewed is the same one supplied).

We suggest you keep the Campagnolo<sup>®</sup> Original Wheels tag even after product authentication for possible future use and, if necessary, to confirm ownership of the product.

**Warning: wheels without a tag bearing a CLG Code should be considered NOT ORIGINAL. Used wheels bought without their original tag bearing a CLG Code should be considered of uncertain origin.**

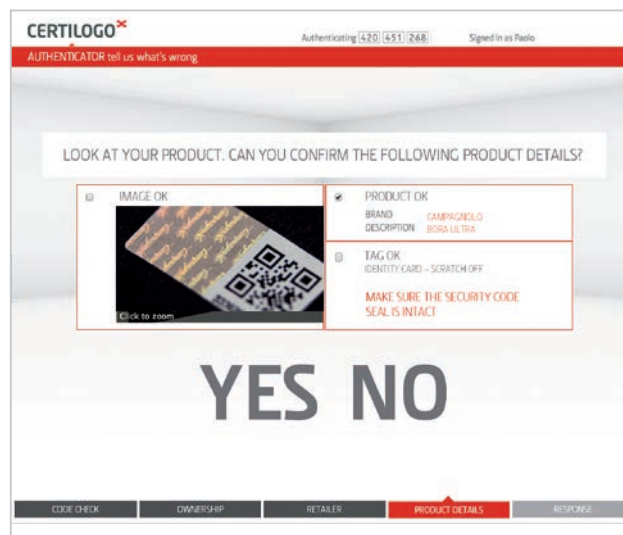


### PRODUCTS COVERED BY THE AUTHENTICATION SERVICE

The Campagnolo<sup>®</sup> Original Wheels tag is present on a spoke of the following wheels starting from the 2015 range:

**Bora™ Ultra 35, Bora™ One 35, Bora™ Ultra 50, Bora™ One 50, Bora™ Ultra 80, Hyperon™ Ultra** (released from the Campagnolo warehouse from 1st October 2014)

Should you not find a Campagnolo<sup>®</sup> Original Wheels tag on the above listed wheels, immediately notify your nearest Pro-Shop™ or Campy Code™ store or Campagnolo Srl directly (addresses at [www.campagnolo.com](http://www.campagnolo.com))



Since its birth over 80 years ago Campagnolo<sup>®</sup> has been dedicated to continuous innovation in order to produce the best, most competitive and reliable products possible. To continually push the limits in this way is the work of the engineers of the Campy Tech Lab™.

Even the smallest details and material choices are painstakingly scrutinized in an effort to produce what is often to become the newest performance standard. As a result, our testing department is one of the most important areas of the entire operation and each and every product must go through strenuous and extreme testing before it earns the right to bear the Campagnolo<sup>®</sup> name. We test at levels above and beyond anything required and as a result produce products that are a step ahead.

- **Fatigue test:** before the manufacturing stage, each wheel and each of its components are subjected to long and very challenging tests that ensure the durability and performance over time.
- **Crash test:** simulates the impact of the wheel in differing situations. Campagnolo<sup>®</sup> crash tests have successfully passed all requirements stipulated by the UCI.
- **Tyre burst test:** all Campagnolo<sup>®</sup> wheels are tested at inflation pressures well above those indicated on the tyre.
- **Environment test:** exposure to UVA and UVB rays, salt attack and exposure to moisture: these are the tests that all Campagnolo<sup>®</sup> wheels must pass to ensure maximum performance and reliability over time.



## HOLOGRAM CAMPAGNOLO<sup>®</sup>



Campagnolo<sup>®</sup> carbon fibre wheels are among the most highly sought-after components of their kind in the racing cycle world, and this inevitably attracts the attention of counterfeiters.

Starting from 2013 to defend its image and quality, and to protect the end customer, Campagnolo<sup>®</sup> applies a hologram decal to every wheel in its Bora range to certify that it is an original Campagnolo<sup>®</sup> product.

Demanding proof that you have purchased an original Campagnolo<sup>®</sup> product is your right as a consumer, and also offers the peace of mind of knowing that you can make full use of the superlative performance these wheels were designed to deliver. Proof of originality also certifies that the wheel was built to Campagnolo's stringent standards and has passed all of our quality control tests.

Please note that the manufacturer's guarantee and all the support services offered are only valid for original products.

## TRACEABILITY



**The keyword for our products is: traceability.**

If you find a little label affixed to Campagnolo<sup>®</sup> products, don't remove it. This is because it is there to provide you with a guarantee that in the event of the ascertained defectiveness of a production batch your component or wheel will be traceable. All this because, faithful to its mission, Campagnolo<sup>®</sup> demands absolute perfection and safety for its customers.



Because finding the perfect wheel means having the correct information. Campagnolo®, in collaboration with professional racers as well as amateur enthusiasts, has identified and developed the five most significant indicators that will allow you to choose the best wheel for your riding style and your needs.

What does S.H.A.R.C. stand for?

SMOOTHNESS:

this indicator helps you understand the degree of smoothness of one wheel with respect to another thanks, for example, to the use of high performance the CULT™ ceramic ball bearings, or the USB™ ceramic ball bearings, or thanks to other technologies applied to the wheel such as 2-Way Fit™.

HANDLING:

no race course in cycling is a straight line and dealing with curves or changing directions quickly can often times make a difference in race results. Many factors determine how well a wheel handles and to evaluate this indicator we take into consideration the geometry of the spokes, lacing patterns, hub design, cross section of the rim, materials employed and even the type of tire to be used.

AERODYNAMICS:

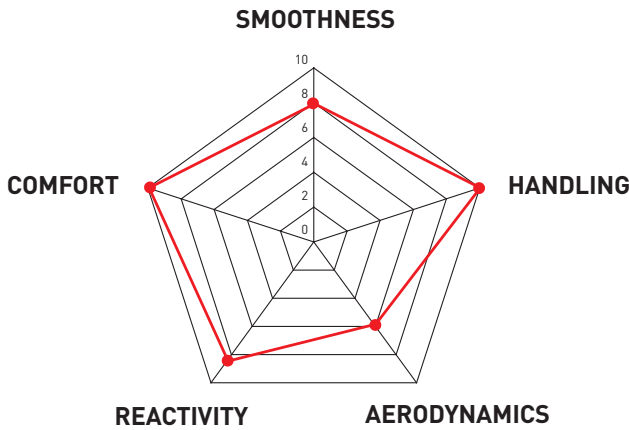
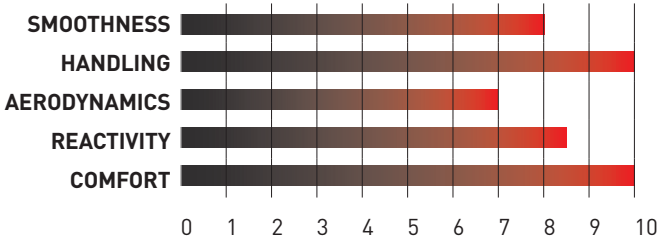
indicates the performance features of the wheel in terms of its propensity to penetrate the air. This factor depends on the height and profile of the rim, the section and form of the spokes, and the degrees of camber of the wheel.

REACTIVITY:

how “ready” and quick is the wheel in response to your change of pace on the pedals? The reactivity index of the wheel refers precisely to this concept. Reactivity depends on the weight of the rim and of the wheel in its entirety, on the torsional stiffness (i.e. how much the wheel deforms around the hub at the moment in which the cyclist pushes on the pedals), the flexional stiffness (i.e. the extent to which the wheel maintains its shape along its axis when it is shifted, due to the push on the pedal, from the vertical axis), and on inertia.

COMFORT:

do you prefer a wheel that can absorb the ruggedness of the terrain or an absolutely rigid wheel with no compromise? It depends on your driving style and your particular needs. The comfort index aims to help you to understand the behaviour of the wheel in the case of roads that are not perfectly smooth, and in any case to help you understand the extent to which the wheel transmits the vibrations of your bike.



		SMOOTHNESS	HANDLING	AERODYNAMICS	REACTIVITY	COMFORT
CARBON WHEELS						
BORA™ ULTRA™ TT	Rim Brake	10	6	10	7,5	5
BORA™ ULTRA™ 80	Rim Brake	10	7	10	9	8
BORA™ ULTRA™ 50	Rim Brake	10	9,5	9,5	10	9
BORA™ ULTRA™ 35	Rim Brake	10	9,5	9	9	9
BORA™ ONE 50	Disc Brake	9	7,5	9,5	9,5	7
BORA™ ONE 50	Rim Brake	9	9,5	9,5	9,5	9
BORA™ ONE 35	Disc Brake	9	8	9	9	10
BORA™ ONE 35	Rim Brake	9	9,5	9	9	9
ALUMINIUM/CARBON WHEELS						
BULLET™ ULTRA™	Rim Brake	10	8	9,5	7,5	8
BULLET™	Rim Brake	8,5	8	9,5	7,5	8
ALUMINIUM WHEELS						
SHAMAL™ MILLE™	Rim Brake	9	9,5	8,5	9,5	8
SHAMAL™ ULTRA™	Disc Brake	9	9	8,5	8,5	8
SHAMAL™ ULTRA™	Rim Brake	9	9,5	8,5	9,5	8
EURUS™	Rim Brake	8	9	8,5	8,5	8
ZONDA™	Disc Brake	8	8,5	8,5	8,5	8,5
ZONDA™	Rim Brake	8	9	8,5	8	8,5
SCIROCCO™	Rim Brake	7,5	9,5	9	7,5	7
KHAMSIN™ ASYMMETRIC	Rim Brake	7,5	8,5	7,5	6,5	8,5
CALIMA™	Rim Brake	7,5	8,5	7	7	7
NEUTRON™ ULTRA™	Rim Brake	8	10	6	8,5	10

What is the Campagnolo® Quick Release?

The Campagnolo® Quick Release is more than just a wheel retention system that acts as an axle. It is highly symbolic as it is the single piece from which the long and glorious history of Campagnolo® was born. The company’s objective of continuously innovating to improve the cycling experience started with the quick release and it remains a a funtional and necessary symbol to this creed even now. Maximum performance in terms of assembly/disassebly ease, wieght and smoothness of the wheel without compromising safety in any way. The patented Campagnolo® mechanism is the one that best meets these needs. The lever is positioned centrally with respect to the axis of the hub axle, i.e. in the best position to put both ends of the axle in traction without differences in load between the sides. The axle is in the form of a cam and applies the closure traction on the axis of the quick release. Starting a few years ago, for the Bullet™ Ultra™ family and full-carbon wheels Campagnolo® incorporates a more aerodynamic version of the quick release. The mechanics and the design are those of the well-tested Campagnolo® patent, and the lever has been designed for the maximum aerodynamic penetration.

Advantages

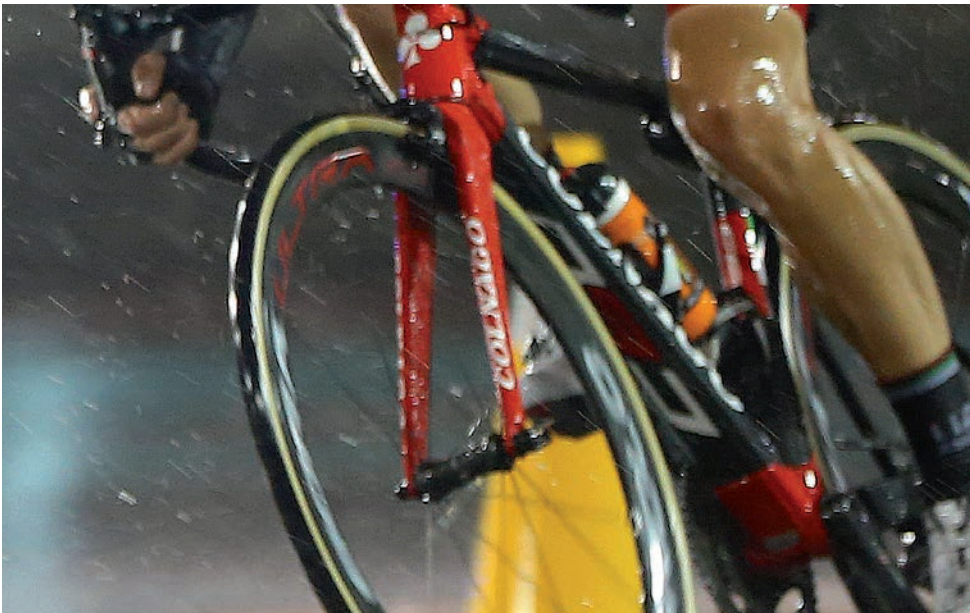
Thanks to the cam axle closure, it is simple and intuitive to understand the force to be applied for correctly closing the quick release and, even more importantly, the cam creates a mechanical impediment to the opening of the release, making it extremely safe during road use. The fork positioned symmetrically with respect to the sides of the lever and centrally with respect to the axis of the skewer, enables an even distribution of the loads and forces at each point of the skewer, thus avoiding critical breakage points and at the same perfect closure the fork of the frame and the wheel. The symmetry of the lever and the special shape of the cam make locking and releasing the wheel extremely easy, fluid, and safe. The new aerodynamic form, moreover, considerably improves the aerodynamic coefficient of the range of wheels dedicated to time trial disciplines.

				
CARBON WHEELS				
BORA™ ULTRA™ TT				•
BORA™ ULTRA™ 80				•
BORA™ ULTRA™ 50				•
BORA™ ULTRA™ 35				•
BORA™ ONE™ 50				•
BORA™ ONE™ 35				•
ALUMINIUM/CARBON WHEELS				
BULLET™ ULTRA™				•
BULLET™		•		
ALUMINIUM WHEELS				
SHAMAL™ MILLE™			•	
SHAMAL™ ULTRA™			•	
EURUS™			•	
ZONDA™ Disc Brake		•		
ZONDA™ Rim Brake		•		
SCIROCCO™		•		
KHAMSIN™ ASYMMETRIC	•			
CALIMA™	•			
NEUTRON™ ULTRA™				•





# CARBON WHEELS



In 2018, the Bora™ family sees yet another technological breakthrough applied to its 50mm, 35mm and lenticular profiles with the introduction of a new braking track treatment. AC3™ (All Conditions Carbon Control) technology guarantees an increased high-performance braking capacity in any weather, bringing stopping times in the wet close to those in dry conditions. The quality of Bora™ is no longer limited to rim brakes as Campagnolo® has now introduced both 50 and 35mm solutions specifically designed around the unique structural needs that disc brake technology represents. Now for quality, high-performance, reliable race-winning wheelsets, whether you choose rim or disc brake, there is but one choice: BORA.

BORA™ ULTRA™ TT	Rim Brake	64
BORA™ ULTRA™ 80	Rim Brake	65
BORA™ ULTRA™ 50	Rim Brake	66
BORA™ ULTRA™ 35	Rim Brake	67
BORA™ ONE™ 50	Disc Brake - Rim Brake	68 - 69
BORA™ ONE™ 35	Disc Brake - Rim Brake	70 - 71



Since its introduction, the Bora™ Ultra™ TT has accompanied cyclists of the highest caliber in winning international medals in time trials. In 2017, despite such success, the Campagnolo® road lenticular wheel was innovated even further, improving upon its main characteristics of low weight and extreme stiffness. The new Bora™ Ultra™ TT in fact weighs nearly 111 g less than the previous model and is 8% stiffer than the stiffest competitor’s wheel. The Campy Tech Lab™ has focused additionally on creating a product that meets the needs of time trial bike braking systems and the results are impressive. The 2018 range sees the addition of the new AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions.

RIGHT SIDE

LEFT SIDE



Tubular: 864 g



**WHEEL DEVELOPED FOR THE TIME TRIAL FRAME:**

extremely stiff structure further eliminates flex near the bottom bracket, namely where the rear brake is positioned on most time trial frames, thus avoiding any possible friction with the brake itself.

**FULL HIGH MODULUS CARBON RIM FOR TUBULAR**

**AC3™ (ALL CONDITIONS CARBON CONTROL) BRAKING SURFACE TECHNOLOGY:**

improves the braking performances on dry and, above all, on wet conditions.

**BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS:**

the special blend increases the brake performance on both dry and wet surfaces without increasing the wear and tear on the pad or wheel.

**FULL CARBON DISC IN A SPECIALLY DEVELOPED WEAVE**

**PROFILE:**

extreme new design reduces profile on both drive and non-drive sides for an even slimmer and more aerodynamic design.

**GRAPHICS FEATURING THE “WINGED WHEEL”:** the legendary Campagnolo® “Winged Wheel” logo identifies Campagnolo® lenticular wheels that use the very latest carbon fiber technologies.



**BEARINGS WITH CULT™ TECHNOLOGY:**

the combination between the highest quality ceramic bearings and housing in special steel. CULT™ makes the wheel nine times smoother than the standard system of steel bearings.

**CUP AND CONE BEARINGS:**

easy bearing adjustment – reduces the possibility bearing play – precision operation – maintains performance over time.

**LIGHTWEIGHT AND EXTREMELY RIGID ALUMINIUM HUB CONSTRUCTION**

**CASSETTE:**

compatible with Campagnolo® 10 and 11 speed cassettes as well as Shimano Inc. 9, 10, and 11 speed cassettes.

The Bora name is synonymous not only with a famous wind but also with the highest performing wheels in the professional peloton. The relatively new 80mm rim profile is yet another high performance option from the Bora™. Extremely light, lightning quick reactivity and highly aerodynamic the Bora™ Ultra™ 80 is a wheel that commands respect. Add CULT™ bearings that make it 9 times smoother than a traditional system and this wheel strikes fear into its adversaries. Designed for professionals, available to everyone. The Bora™ Ultra™ 80 becomes even lighter thanks to the water transfer graphics that also gives this wheel the elegance it deserves.

REAR WHEEL

Bright label

FRONT WHEEL

Dark label



Tubular: 1520 g



**FULL CARBON HIGH PROFILE FOR 80mm TUBULAR:**

provides the maximum aerodynamic penetration. Extremely high lateral wheel stiffness and reactivity.

**EXCLUSIVE PRESSING SYSTEM FOR THE RIM IN UNPAINTED CARBON:**

elegant polished finish is result of advanced and patented production technique. Eliminating need for paint keeps weight lower.

**BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS:**

the special blend increases the brake performance on both dry and wet surfaces without increasing the wear and tear on the pad.

**RDB™ RIM DYNAMIC BALANCE**

**SPOKES WITH AERODYNAMIC PROFILE:**

provides the maximum aerodynamic penetration. Reduces aerodynamic drag saving rider energy.

**EXCLUSIVE G3™ SPOKE PATTERN:**

perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. G3™ eliminates vibrations even with “heavy” cyclists.

**SELF-LOCKING ALUMINIUM NIPPLES**



**BALL BEARINGS WITH CULT™ TECHNOLOGY:**

the combination between the highest quality ceramic bearings and housing in special steel. CULT™ makes the wheel nine times smoother than the standard system of steel ball bearings.

**CARBON FIBRE HUB:**

provides a high degree of lateral stiffness and reduces weight to the minimum.

**OVERSIZED FLANGE:**

greater torsional stiffness and greater reactivity.

**CUP AND CONE BEARINGS**

**ALUMINIUM AXLE**



Innovating the wheel that has become perhaps the benchmark for quality, performance and race victories at the highest level of cycling was certainly an arduous task but one that the Campy Tech Lab™ engineers met with enthusiasm. The result of their labor was the 2015 range Bora™ Ultra™ 50 which maintains the positive performance aspects of the preceding version while incorporating new solutions and technologies to build further upon its race-winning potential. The wider stance brings forth a more efficient, comfortable and sharp handling wheelset without additional weight. Add the super reactive construction, smooth rolling CULT™ bearings, aerodynamic profile it is no wonder why the Bora™ has become one of the winningest wheels in history. The 2018 range sees the addition of the new AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions.

REAR WHEEL  
Bright label

FRONT WHEEL  
Dark label



Tubular: 1215 g  
Clincher: 1435 g



**FULL-CARBON RIM, 24.2mm WIDE, FOR TUBULARS AND CLINCHERS:**  
handbuilt and technologically advanced carbon fiber rim. New wider profile increases rigidity and comfort without adding weight. Wider stance improves tire/rim interface, thus improving handling and aerodynamics.

**EXCLUSIVE RIM PRINTING SYSTEM:**  
rim painting no longer required. The weight is greatly reduced and the surface is free from imperfections.

**AC3™ (ALL CONDITIONS CARBON CONTROL) BRAKING SURFACE TECHNOLOGY:**  
improves the braking performances on dry and, above all, on wet conditions.

**BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS**

**RDB™ RIM DYNAMIC BALANCE**

**SPOKES WITH AERODYNAMIC PROFILE:**  
provides the maximum aerodynamic penetration. Reduces aerodynamic drag saving rider energy.

**EXCLUSIVE G3™ SPOKE PATTERN:**  
perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. G3™ eliminates vibrations even with "heavy" cyclists.

**SELF-LOCKING ALUMINIUM NIPPLES**

**CULT™:**  
the combination of the highest quality ceramic bearings with housing in special steel. Nine times smoother than the standard system. Eliminates oxidation and maintains performance over time.

**CARBON FIBRE HUB:**  
provides a high degree of lateral stiffness and reduces weight to the minimum.

**CUP AND CONE BEARINGS:**  
easy bearing adjustment.

**OVERSIZED FLANGE:**  
greater torsional stiffness and greater reactivity.

**ALUMINIUM AXLE**  
reduces the weight of the wheel.



The Bora™ Ultra™ 35 has been welcomed with open arms by the strongest professional riders in the World Tour since its introduction and has now become a wheel that they cannot do without. Available in both clincher and tubular versions the 35mm profile Bora™ Ultra™ 35 is perhaps the most versatile wheelset ever offered by Campagnolo®. Light enough to be considered a climber's wheel but with an aerodynamic profile that aids on the flats and is plenty rigid for the most hotly contested sprint finish. This is a wheelset that represents no compromise and excels in any condition and over any course. The 2018 range sees the addition of the new AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions.

REAR WHEEL  
Bright label

FRONT WHEEL  
Dark label



Tubular: 1170 g  
Clincher: 1360 g



**FULL-CARBON RIM, 24.2mm WIDE, FOR TUBULARS AND CLINCHERS:**  
handbuilt and technologically advanced carbon fiber rim. New wider profile increases rigidity and comfort without adding weight. Wider stance improves tire/rim interface, thus improving handling and aerodynamics.

**AC3™ (ALL CONDITIONS CARBON CONTROL) BRAKING SURFACE TECHNOLOGY:**  
improves the braking performances on dry and, above all, on wet conditions.

**BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS**

**RDB™ RIM DYNAMIC BALANCE**

**SPOKES WITH AERODYNAMIC PROFILE IN STEEL:**  
ensuring the maximum aerodynamic penetration and, thanks to the material employed, lower weight and greater reactivity.

**EXCLUSIVE G3™ SPOKE PATTERN:**  
perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. G3™ eliminates vibrations even with "heavy" cyclists.

**SELF-LOCKING ALUMINIUM NIPPLES**

**CULT™:**  
the combination of the highest quality ceramic bearings and housing in special steel. Nine times smoother than the standard system.

**CARBON FIBRE HUB:**  
provides a high degree of lateral stiffness and reduces weight to the minimum.

**OVERSIZED FLANGE:**  
greater torsional stiffness and greater reactivity.

**CUP AND CONE BEARINGS**

**ALUMINIUM AXLE**





The Bora™ One 50 disc brake is the perfect answer for cyclists searching for deep profiles capable of offering significant aerodynamic advantages while remaining lightweight and reactive for even the steepest climbs. Its extremely sophisticated carbon fiber rim and its 24.2 mm width offers a rim/tire interface optimized for the use of both 25 and 28mm tires by creating a more aerodynamic complete unit and a more efficient and surefooted structure. The Bora™ One 50 disc brake wheelset represents the same quality, performance and reliability that made its rim-brake predecessor such an iconic wheel. While it incorporates many technologies used in the rim brake version it is a completely new project and has been specifically designed in its entirety for the unique demands that come with disc brake construction. Only a wheel whose every single part has been functionally designed around its use with disc brakes can boast complete compatibility: accept no compromises.

REAR WHEEL  
Bright label

FRONT WHEEL  
Dark label



DISC BRAKE  
PROJECT

Tubular: 1348 g



**RIM DESIGN:**  
Full Campagnolo-carbon rim, 24.2 mm wide and 50 mm deep for both front and rear.

AVAILABLE IN TUBULAR VERSION ONLY

**RDB™ RIM DYNAMIC BALANCE:**  
when manufacturing carbon rims, the carbon fibre is aligned in such a manner that the resulting rim is perfectly balanced.

**ADVANCED RESIN AND CARBON FIBRE TECHNOLOGY:**  
the carbon fibre is held in place in the mould using a resin formula that guarantees a superior finish, durability and withstands UV rays over time.

**BLACK ANODIZED SELF-LOCKING NIPPLES TO ELIMINATE SPOKE ROTATION**

**MODIFIED VERSION OF THE FAMOUS G3™ SPOKE PATTERN ON THE REAR WHEEL**

**MODIFIED VERSION OF THE FAMOUS G3™ SPOKE PATTERN ON THE FRONT WHEEL:**  
asymmetric forces are combatted by using the G3™ spoke design, permitting improved equal spoke tension. This ensures extremely good stiffness and reactivity, reinforcing the disc side and so increasing braking torque resistance.



**USB™ ULTRA SMOOTH BEARINGS:**  
top quality ceramic bearings create a perfectly smooth, resistance and maintenance free rolling.

**ADJUSTING LOCKING WITH MICRO-SETTING:**  
for precision hub adjustment.

**ALUMINIUM HUB SHELL:**  
permits an improved torque transfer across hub during the braking phase.

**NEW FLANGE ROAD DESIGN:**  
allows integration with the AFS rotor on the braking force, transmission side.

The Bora™ One™ 50 uses the same rim as its Ultra™ bretheren and thus brings along with it all of the performance that is afforded to that top end wheelset. The new wider profile brings forth a more efficient tire/rim interface, better handling, increased aerodynamics, additional comfort and optimization for use with 25/28mm tires. The 2018 range sees the addition of the new AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions. The same race-day technologies interpreted with different materials in the hub and bearings make this one wheelset capable of propelling you to the top-step of the podium at a more modest price point.

REAR WHEEL  
Bright label

FRONT WHEEL  
Dark label



Tubular: 1265 g  
Clincher: 1485 g



**FULL-CARBON RIM, 24.2mm WIDE, FOR TUBULARS AND CLINCHERS:**  
handbuilt and technologically advanced carbon fiber rim. New wider profile increases rigidity and comfort without adding weight. Wider stance improves tire/rim interface, thus improving handling and aerodynamics.

**EXCLUSIVE RIM PRINTING SYSTEM:**  
rim painting no longer required. The weight is greatly reduced and the surface is free from imperfections.

**AC3™ (ALL CONDITIONS CARBON CONTROL) BRAKING SURFACE TECHNOLOGY:**  
improves the braking performances on dry and, above all, on wet conditions.

**BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS**

RDB™ RIM DYNAMIC BALANCE

**SPOKES ANTI-ROTATION SYSTEM™:**  
allows the spokes to maintain the best aerodynamic position.

**EXCLUSIVE G3™ SPOKE PATTERN:**  
perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. G3™ eliminates vibrations even with "heavy" cyclists.

**SPOKES WITH AERODYNAMIC PROFILE:**  
provides the maximum aerodynamic penetration.



**USB™ CERAMIC BALL BEARINGS:**  
reduces friction, provides greater smoothness, and maintains performance over time.

ALUMINIUM HUB BODY

**CONE/CUP BEARINGS SYSTEM:**  
high-performance ceramic bearings teamed with the cone/cup system ensure long-lasting performance, make adjustment easier, reduce possible play and improve smoothness.

**ALUMINIUM AXLE:**  
reduces the weight of the wheel.

**OVERSIZED FLANGE:**  
greater torsional stiffness and greater reactivity.



Campagnolo® has developed the Bora™ One Disc Brake wheelset, a completely new interpretation, extracting our rim brake version know-how and expertise and injecting new logic and technology to achieve some exciting results. The Bora™ One is possibly the most sophisticated carbon fibre wheel currently available on the market and one of the few that have been designed specifically for disc brakes. Extreme lightness while ensuring stiffness, resistance to impacts and perfect wheel balancing, available in Clincher and Tubular versions, in 35mm rim height, creating a wheel that is versatile for every road profile.

REAR WHEEL  
Bright label

FRONT WHEEL  
Dark label



Tubular: 1276 g  
Clincher: 1483 g



**RIM DESIGN:**

Full-carbon rim 23,5 mm width for the clincher version and 24,2 mm for tubular, with manual positioning of the carbon fibre textures, creating a perfect balance between weight and performance, when matched with 25 mm tyres the Bora™ One reaches new levels of comfort.

**AVAILABLE IN CLINCHER AND TUBULAR VERSIONS:**

versatile use and easy replacement of the inner tube in the event of a puncture for the clincher version. Maximum smoothness and handling performance for tubulars.

**RDB™ RIM DYNAMIC BALANCE:**

when manufacturing carbon rims, the carbon fibre is aligned to create a perfectly balanced rim.

**ADVANCED RESIN AND CARBON FIBRE TECHNOLOGY:**

the carbon fibre is held in place in the mould using a resin formula that guarantees a superior finish, durability and withstands UV rays over time.

**BLACK ANODIZED SELF-LOCKING NIPPLES TO ELIMINATE SPOKE ROTATION**

**MODIFIED VERSION OF THE FAMOUS G3™ SPOKE PATTERN ON THE REAR WHEEL**

**MODIFIED VERSION OF THE FAMOUS G3™ SPOKE PATTERN ON THE FRONT WHEEL:**

asymmetric forces are combatted by using the G3™ spoke design, permitting improved spoke tension equilibrium. This ensures extremely good stiffness and reactivity, reinforcing the disc side to increase braking torque resistance.



**USB™ ULTRA SMOOTH BEARINGS:**

top quality ceramic bearings create a perfectly smooth, resistance and maintenance free rolling.

**ADJUSTING LOCKING WITH MICRO-SETTING:**

for precision hub adjustment.

**ALUMINIUM HUB SHELL:**

permits an improved torque transfer across hub during the braking phase.

**NEW FLANGE ROAD DESIGN:**

allows integration with the AFS rotor on the braking force transmission side.

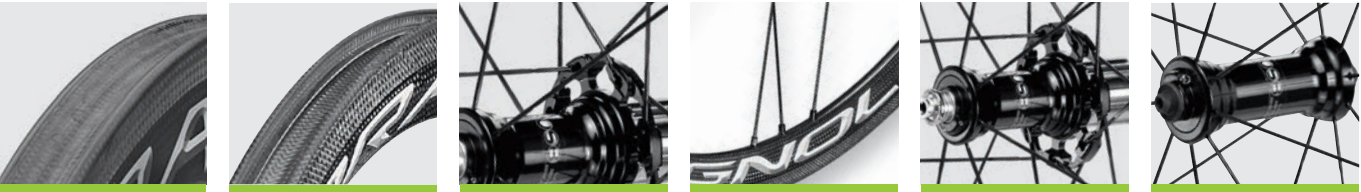
The same 35mm rim as found on the Ultra™ version, the Bora™ One™ 35 offers fantastic performance technologies such as the Campagnolo® quality carbon construction and a new wider and more efficient stance. Super smooth USB™ ceramic bearings and a solid and reactive aluminum construction hub laced to aerodynamic spokes this most versatile of wheelsets is ready to take on anything you can put in front of it. The 2018 range sees the addition of the new AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions.

REAR WHEEL  
Bright label

FRONT WHEEL  
Dark label



Tubular: 1215 g  
Clincher: 1405 g



**FULL-CARBON RIM, 24.2mm WIDE, FOR TUBULARS AND CLINCHERS:**  
handbuilt and technologically advanced carbon fiber rim. New wider profile increases rigidity and comfort without adding weight. Wider stance improves tire/rim interface, thus improving handling and aerodynamics.

**EXCLUSIVE RIM PRINTING SYSTEM**

**AC3™ (ALL CONDITIONS CARBON CONTROL) BRAKING SURFACE TECHNOLOGY:**  
improves the braking performances on dry and, above all, on wet conditions.

**BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS**

**RDB™ RIM DYNAMIC BALANCE**

**SPOKES ANTI-ROTATION SYSTEM™:**  
allows the spokes to maintain the best aerodynamic position.

**EXCLUSIVE G3™ SPOKE PATTERN:**  
perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. G3™ eliminates vibrations even with "heavy" cyclists.

**SPOKES WITH AERODYNAMIC PROFILE:**  
allows for the high degree of air penetration.



**USB™ CERAMIC BALL BEARINGS:**  
reduces friction, provides greater smoothness, and maintains performance over time.

**ALUMINIUM HUB BODY**

**CONE/CUP BEARINGS SYSTEM:**  
high-performance ceramic bearings teamed with the cone/cup system ensure long-lasting performance, make adjustment easier, reduce possible play and improve smoothness.

**ALUMINIUM AXLE:**  
reduces the weight of the wheel.

**OVERSIZED FLANGE:**  
greater torsional stiffness and greater reactivity.





# ALU/CARBON WHEELS

Aerodynamic advantages aren't only for professional athletes. They give benefits to all cyclists. With Campagnolo's alu-carbon line of wheels you too can take advantage of aero and use it to slip by the competition. The performance profiles are derived from the world-class and widely coveted BORA™ full carbon line but offer the benefit of an aluminum braking surface.

BULLET™ ULTRA™  
BULLET™

73  
74

Campagnolo® performance and quality in an Aluminum- Carbon construction. The Bullet™ Ultra™ offers serious performance advantages for the expert rider while including an aluminum braking surface. Special aluminum-carbon construction method coupled with an oversize hub, G3™ spoke lacing pattern and DRSC™ (Directional Rim-Spoke Coupling) system makes for an explosive wheelset that is both responsive and precise. Superior quality bearings also ensure efficiency and smooth functionality. Available in both "Dark" and "Bright" versions.

REAR WHEEL  
Bright label



FRONT WHEEL  
Dark label



Clincher: 1590 g



EXCLUSIVE MOLDING SYSTEM FOR THE RIM  
ELIMINATES THE NEED FOR PAINT

RDB™ RIM DYNAMIC BALANCE

INTEGRATED ALUMINIUM/CARBON RIM  
STRUCTURE:  
the exclusive coupling system of the aluminium rim and carbon structure makes the rim extremely rigid, it allows for excellent responsiveness levels and durability of the wheel.

MOMAG™:  
allows the external profile of the rim to be free of holes – increases structural integrity – makes rim tape unnecessary and reduces the weight of the wheel.

G3™ SPOKE PATTERN

SELF-LOCKING OVERSIZE ALUMINIUM  
NIPPLES

SPOKES ANTI-ROTATION SYSTEM:  
keeps the spokes in the position of maximum aerodynamic penetration.

DRSC™  
(DIRECTIONAL RIM-SPOKE COUPLING):  
exclusive rim/spoke coupling system. It allows the rim, spokes, nipples and hub to align properly with the same tensioning value in all areas.

AERODYNAMIC PROFILE IN STEEL



BEARINGS WITH CULT™ TECHNOLOGY:  
the combination between the highest quality ceramic bearings and housing in special steel. CULT™ makes the wheel nine times smoother than the standard system of steel bearings.

OVERSIZED FLANGE ON THE DRIVE SIDE:  
increases the torsional stiffness, increasing reactivity at each change in rhythm of the pedal stroke.

ALUMINIUM AXLE

ALUMINIUM HUB BODY



Quality Campagnolo® Carbon construction mated with a fantastic aluminum milled braking surface make for a competition-ready wheelset that brings the best of both carbon and aluminum construction methods. Highly aerodynamic thanks to the easily moldable properties of carbon fiber make this wheelset ready to slice through the wind while adding very few grams to the overall unit. The aluminum braking track offers reliable and sound braking performance and allows you to swap between raceday hoops and training wheels without the need to change brakepads.

REAR WHEEL

FRONT WHEEL



Clincher: 1755 g



#### INTEGRATED ALUMINIUM/CARBON RIM STRUCTURE:

the exclusive coupling system of the aluminium rim and carbon structure makes the rim extremely rigid, it allows for excellent responsiveness levels and durability of the wheel.

#### EXCLUSIVE MOLDING SYSTEM FOR THE RIM ELIMINATES THE NEED FOR PAINT

#### RDB™ RIM DYNAMIC BALANCE

**MOMAG™:** allows the external profile of the rim to be free of holes – increases structural integrity – makes rim tape unnecessary and reduces the weight of the wheel.

#### SPOKES ANTI-ROTATION SYSTEM™

##### SELF-LOCKING NIPPLES:

it allows to maintain the right tension of the spokes and does not require any maintenance.

#### G3™ SPOKE PATTERN

##### DRSC™

##### (DIRECTIONAL RIM-SPOKE COUPLING):

exclusive rim/spoke coupling system. It allows the rim, spokes, nipples and hub to align properly with the same tensioning value in all areas.

#### AERODYNAMIC PROFILE IN STEEL

#### ALUMINIUM HUB BODY:

gives the wheel a high degree of lateral stiffness and reduces weight to the minimum.

#### OVERSIZED FLANGE ON THE DRIVE SIDE:

increases the torsional stiffness, increasing reactivity at each change in rhythm of the pedal stroke.







# ALUMINIUM WHEELS

From the iconic, range-leading Shamal™ Ultra to the newest member of the family Calima™, the Campagnolo® range of aluminum wheels is without equal in the cycling marketplace. Incorporating advanced technologies and sophisticated performance solutions for both rim and disk brake specific uses alike makes for a range that offers the perfect solution for any cyclist. Dynamic Balance™, G3™ spoke design, MoMag™ construction and a cornucopia of other technologies make the Campagnolo® aluminum wheelsets the obvious choice for the discerning cyclist looking for something more under his or her frame.

SHAMAL™ MILLE™	Rim Brake	77
SHAMAL™ ULTRA™	Disc Brake - Rim Brake	78 - 79
EURUS™	Rim Brake	80
ZONDA™	Disc Brake - Rim Brake	81 - 82
SCIROCCO™	Rim Brake	83
KHAMSIN™ ASYMMETRIC™	Rim Brake	84
CALIMA™	Rim Brake	85
NEUTRON™ ULTRA™	Rim Brake	86

The gold standard of performance aluminum racing wheels goes by the name of Shamal™. The stealth version of this performance wheelset goes by the name of Shamal Mille™ and the sophisticated surface treatment that gives this wheelset its sleek and elegant dark look also represents a significant performance advantage. This treatment permits surefooted and strong braking power, above and beyond that of normal aluminium rims, in both wet and dry conditions. New is a C17 rim that ensures a better rim/tire interface and thus improved performance especially when using 25 and 28mm tires. The already elegant wheelset gets a facelift in the form of black anodized nipples, to complete its understated dark look 100%. The Shamal Mille™ is sure to turn heads of both the competition on race day as well as those next to you at the stoplight.

REAR WHEEL

FRONT WHEEL



Clincher: 1459 g



**PLASMA ELECTROLYTIC OXIDATION:**  
it offers elegant finish and enhances braking power and modularity.

**TOROIDAL MILLING**

**SPIRAL GROOVE ON THE BRAKING TRACK:**  
reduces braking distance while maintaining silent braking.

**DIFFERENTIATED RIM HEIGHT**  
FRONT (24 - 27 mm) AND REAR (27 - 30 mm)

**DYNAMIC BALANCE**

**MOMAG™:**  
allows the external profile of the rim to be free of holes.

**AERODYNAMIC SPOKES IN ALUMINUM:**  
maximum air penetration, less weight and greater reactivity.

**DIFFERENTIATED SPOKES:**  
16 radial spokes for the front, 21 spokes for the rear, doubled on the right and exclusive Mega-G3™ spokes to reduce vibration, increase stiffness and transmission of power to the wheel.

**BLACK NIPPLES:**  
black Oxidation Finishing self-locking aluminum nipples outside the rim. Allows easy maintenance and less truing over the wheel lifetime.

**SPOKES ANTI-ROTATION SYSTEM:**  
it keeps the spokes in a position of maximum aerodynamics.



**CERAMIC USB BEARINGS WITH DIFFERENTIATED DIAMETERS:**  
28 mm for the front, 30 mm for the rear. Less friction, less weight, greater smoothness and the same performance over time.

**HUB BODY IN CARBON:**  
high lateral stiffness, reducing weight to a minimum.

**AXLE IN ALUMINUM:**  
low weight, high stiffness.

**OVERSIZED FLANGE:**  
it increases torsional stiffness, increasing its reactivity at every change in the cyclist's pace.



The Shamal™ wheel is already an industry reference point for high end aluminium wheelsets. Now for 2018 Campagnolo® have taken their know how and expertise to introduce the new disc brake version. Campagnolo® engineers have worked tirelessly to create a wheel that will come to represent the same standard for quality and performance as its rim-brake counterpart

REAR WHEEL

FRONT WHEEL



DISC BRAKE PROJECT

2-Way Fit™: 1557 g



**2-WAY FIT™ VERSION:**  
permits the cyclist to use the same rim to choose the best of both worlds – traditional clincher tyres or innovative tubeless.

**22 mm RIM WIDTH:**  
creates a perfect balance between weight and performance, matching 25mm tyres to reach high levels of comfort.

**DIFFERENTIATED FRONT RIM HEIGHT:**  
the 27 mm profile on the front rim allows for maximum stiffness at the nipple contact point and the toroidal milling achieves a 25 mm height in those areas where the rim does not require extra material, saving weight and increasing the handling of the wheel.

**DIFFERENTIATED REAR RIM HEIGHT:**  
the 30mm profile on the rear rim allows the maximum stiffness at the nipple contact point and the toroidal milling achieves the 27 mm height in those areas where the rim does not require extra material, saving weight and increasing the handling of the wheel.

**FRONT WHEEL SPOKES:**  
14 aluminum aero spokes are used on the braking side, and 7 aluminum aero spokes section 2/1,6/2 mm on the drive side.

**REAR WHEEL SPOKES:**  
7 aluminum aero spokes are used on the braking side, and 14 aluminum aero spokes on the drive side. This ensures aerodynamics and reactivity, whilst strengthening the disc side to increase braking torque resistance.

**BLACK ANODIZED SELF-LOCKING NIPPLES:**  
combats possible spoke rotation during wheels lifecycle.

**HH 12/100 FRONT AND HH 12/142 REAR THRU AXLES:**  
uses a single specification in order to achieve “Campagnolo performance” also in the transfer of forces to the frame. QR and 12/135 axles are offered as accessories.

**CERAMIC USB™ ULTRA SMOOTH BEARINGS:**  
Top quality ceramic bearings create a perfectly smooth, resistance and maintenance free rolling.

**ADJUSTING LOCKING WITH MICRO-SETTING:**  
for precision hub adjustment.

**REAR ALUMINUM BODY WITH MEGA-G3™ SYSTEM:**  
ensures extremely efficient aerodynamics and reactivity, with reinforcing on the braking side to promote torque resistance under braking phase.

**FRONT ALLOY HUB FLANGES AND CARBON FIBRE SPACER:**  
helps to create an extremely light and strong front wheel.

**NEW FLANGE ROAD DESIGN:**  
for greater integration with the AFS rotor, enhancing the braking forces.



The SHAMAL™ ULTRA™ C17 represents the same fantastic performance that has made it THE go to aluminum race wheel for the better part of two decades while adding even more versatility and performance. The wider profile meets the C17 standard and is perfect for use with the increasingly popular 25/28mm tire sizes. This rim/tire interface proves to be more aerodynamic when compared to the same size tires mated to a C15 rim. The C17 also allows for a more surefooted grip in addition to increased comfort while increasing rigidity and thus reactivity at the same time thanks to its wider stance and optimized material usage.

REAR WHEEL

FRONT WHEEL



2-Way Fit™: 1475 g  
Clincher: 1449 g



**TOROIDAL MILLING:**  
reduces the peripheral weight of the rim – makes the wheel extremely reactive.

**DYNAMIC BALANCE™**

**2-WAY FIT™ PROFILE:**  
allows you to use either the classic clincher or the innovative tubeless tire.

**ULTRA-FIT™:**  
easy tire mounting – maximum safety – less friction – less energy dispersion – improved performance.

**MOMAG™:**  
allows the external profile of the rim to be free of holes.

**DIFFERENTIATED RIM HEIGHT FRONT (24 - 27 mm) AND REAR (27 - 30 mm)**

**SPOKES ANTI-ROTATION SYSTEM™:**  
keeps the spokes in the position of maximum aerodynamic penetration.

**SELF-LOCKING NIPPLES:**  
allow the ideal spoke tension to be maintained at length, eliminating friction on the rim. All this translates into constant high performance throughout the life of the product.

**EXCLUSIVE MEGA-G3™ SPOKE PATTERN:**  
perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. Mega-G3™ eliminates vibrations even with “heavy” cyclists.

**AERO SPOKES IN ALUMINIUM:**  
maximum aerodynamic penetration - lower weight and greater reactivity.



**USB™ CERAMIC BALL BEARINGS:**  
reduces friction, provides greater smoothness, and maintains performance over time.

**CARBON FIBRE HUB BODY:**  
high degree of lateral stiffness – reduces the weight to the minimum.

**ALUMINIUM AXLE**  
low weight, high stiffness.

**OVERSIZED FLANGE:**  
increases the torsional stiffness, increasing reactivity at each change of pace of the cyclist.

**DIFFERENTIATED HUB DIAMETER FRONT AND REAR:**  
optimized for structural integrity and performance. Small front hub aids in aerodynamic efficiency.



The Eurus™ wheel was designed to be both extremely durable and high performance. Lightweight design ready for any course and sturdy construction ready for the toughest terrain make this wheelset an easy choice. Thanks to the oversized flange and innovative Mega-G3™ technology, Eurus™ wheels have made a true leap to become, alongside the Shamal™, a reference point for top end aluminum wheels.

REAR WHEEL

FRONT WHEEL



2-Way Fit™: 1485 g  
Clincher: 1465 g



**TOROIDAL MILLING**

**DIFFERENTIATED RIM HEIGHT:**  
26mm at the front; 30mm at the rear.

**2-WAY FIT™ PROFILE:**  
allows you to use either the classic clincher or the innovative tubeless tire.

**ULTRA-FIT™:**  
easy tire mounting – maximum safety – less friction – less energy dispersion – improved performance.

**MOMAG™:**  
allows the external profile of the rim to be free of holes – increases structural resistance – makes rim tape unnecessary and reduces the weight of the wheel.

**DYNAMIC BALANCE™**

**SPOKES ANTI-ROTATION SYSTEM:**

keeps the spokes in the position of maximum aerodynamic penetration.

**EXCLUSIVE MEGA-G3™ SPOKE PATTERN:**  
perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. Mega-G3™ eliminates vibrations even with “heavy” cyclists.

**AERO SPOKES IN ALUMINIUM**

**ALUMINIUM NIPPLES**

**REAR HUB WITH OVERSIZED FLANGE:**

increases the torsional stiffness, increasing reactivity at each change of pace of the cyclist.

**ALUMINIUM AXLE:**  
low weight, high stiffness.

**ALUMINIUM HUB BODY:**  
provides a high degree of lateral stiffness.

The very first Campagnolo® branded wheelset developed specifically for disc brake equipped road bikes comes at a time where the market has plenty of solutions for road disc wheelsets but lacks many solutions that offer a level of performance, reliability, safety and integrity that has been associated with Campagnolo® wheels for traditional rim brakes. The Zonda™ disk brake wheelset is not only more reactive when compared to the rim brake version but it is also 25 grams lighter than its closest competitor. Adding more tech and more componentry to a wheel while increasing its performance, lowering its weight and ensuring that same Campagnolo® reliability cyclists have come to expect make a wheelset that should be at the top of any disc brake riding athlete in the market for a serious upgrade. It is available with QR and HH12 with 135 and 142 OLD.

REAR WHEEL

FRONT WHEEL



Clincher: 1675 g



**NEW ASYMMETRIC RIMS PROFILE (26 – 28 mm)**

**MILLED RIM:**  
this machining makes possible to reduce the peripheral weight of the rim and makes the wheel extremely reactive.

**RDB™ - RIM DYNAMIC BALANCE:**  
the concept is simple and elegant: balance the weight of the gasket, with an item of similar weight placed on the exact opposite side.

**MOMAG™:**  
allows the external profile of the rim to be free of holes to benefit of both stiffness and weight.

**SPOKES:**  
G3™ technology applied also to the front wheel to better perform at high braking power.

**FRONT WHEEL SPOKES:**  
14 spokes in stainless steel section diameter 2/1,6/2 mm (left side - braking side)  
7 spokes in stainless steel section diameter 2/1,6/2 mm (right side).

**REAR WHEEL SPOKES:**  
7 spokes in stainless steel section diameter 2/1,6/2 mm (left side - braking side)  
14 spokes in stainless steel section diameter 2/1,6/2 mm (right side - cassette side).

**NIPPLES:**  
black anodized self-locking nipples outside the rim allows for easy maintenance.

**CUP AND CONE BEARINGS:**  
easy bearing adjustment that reduces possible bearing play, maintaining performances over time and keeping the optimal contact angle between ball and track.

**ADJUSTING LOCKING WITH MICRO-SETTING TECH:**  
for an accurate adjustment of the hub that prevents the creation of any play.

**TWO DIFFERENT INTERFACES WITH THE ROTOR: 6 BOLTS AND AFS™:**  
for allowing the full compatibility with every rotor available in the market.

**21 SPOKES IN STAINLESS STEEL WITH MEGA-G3™ SYSTEM:**  
ensures extremely good stiffness and reactivity, reinforcement on braking side at the front and cassette side at the rear. It gives a very race design to the wheelset.



The universally lauded Zonda™ get an update for 2017 range and the best-selling Campagnolo® wheelset incorporated a C17 class rim. The highly respected Zonda™ with its new 22,5 mm wide rim accepts larger clincher tires making for increased performance, comfort and a more efficient tire/rim interface. A new rim coupled with the same technologies that put the Zonda™ in a league apart from the rest of the wheels in its segment make this wheelset one that punches far above its weight. And while speaking of weight, the Zonda™ offers this added performance and wider profile while reducing its overall weight more than 10 grams.

REAR WHEEL

FRONT WHEEL



Clincher: 1540 g



**MOMAG™:**  
allows the external profile of the rim to be free of holes – increases structural resistance – makes rim tape unnecessary and reduces the weight of the wheel.

**MILLED RIM**

**DIFFERENTIATED RIM HEIGHT**  
**FRONT (24 - 27 mm) AND REAR (27 - 30 mm)**

**DYNAMIC BALANCE™**

**SPOKES ANTI-ROTATION SYSTEM**  
keeps the spokes in the position of maximum aerodynamic penetration.

**EXCLUSIVE MEGA-G3™ SPOKE PATTERN:**  
perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. Mega-G3™ eliminates vibrations even with “heavy” cyclists.

**SPOKES WITH AERODYNAMIC PROFILE:**  
Front: 16 spoke variable profile Aero radials in stainless steel.  
Rear: 21 spoke variable profile Aero in stainless steel with doubling on the cassette side.

**SELF-LOCKING NIPPLES:**  
allow the ideal spoke tension to be maintained at length, eliminating friction on the rim. All this translates into constant high performance throughout the life of the product.

**REAR HUB WITH MEGA-G3™ OVERSIZED FLANGE:**  
increases the torsional stiffness, increasing reactivity at each change of pace of the cyclist.

**ALUMINIUM HUB BODY:**  
provides a high degree of lateral stiffness.

**ALUMINIUM AXLE:**  
low weight, high stiffness.

**DIFFERENTIATED HUB DIAMETER FRONT AND REAR:**  
optimized for structural integrity and performance. Small front hub aids in aerodynamic efficiency.

**NEW ADJUSTING LOCK RING WITH MICRO-SETTING:**  
for an accurate adjustment of the hub that prevents the creation of play.

With the easily recognizable 35mm profile height, the Scirocco™ is a versatile wheelset solution that offers strengths in every field. From aerodynamics and handling, weight and stiffness. It is predictable, reactive and light. The Scirocco™ is an all round wheelset aimed at passionate cyclists and professionals alike. The 35 mm profile is perhaps the perfect wheel to take on any challenge that the road or race presents.

REAR WHEEL

FRONT WHEEL



Clincher: 1654 g



**35 mm AERODYNAMIC PROFILE IN A MID-END ALUMINUM RIM:**  
aerodynamics in a mid-end aluminum rim. Advanced aero efficiency while being extremely easy to handle even in cross winds.

**DYNAMIC BALANCE™:**  
every point of the rim is counter-balanced by an equal weight on the opposite side. Maximum stability of the wheel even at high speeds.

**WELDED RIM:**  
to increase stiffness and braking surface precision allowing a smoother progressive braking.

**AERODYNAMIC PROFILE:**  
radial spokes in stainless steel. 16 spoke radial configuration on the front wheel, 21 spokes with double spoke pattern on the cassette side.

**EXCLUSIVE MEGA-G3™ SPOKE PATTERN:**  
the Mega-G3™ creates a perfect spoke tension balance on both sides of the wheel. This helps to reduce spoke stress, increases transversal rigidity and as a consequence improved power to wheel transmission.

**INTERNAL RIM NIPPLE SUPPORT TABS:**  
as used in high end carbon wheels. The support tabs are used to guarantee a longer life of the wheel by distributing tension more efficiently.

**ALUMINUM HUB AND AXLE:**  
saves weight and increases lateral stiffness.

**MEGA-G3™ OVERSIZE FLANGE ON THE REAR WHEEL (CASSETTE SIDE):**  
this is used to increase torsional stiffness, creating greater reactivity with each change in the pace.

**HI-END FREE HUB BODY:**  
the Scirocco™ hubs uses the same construction components normally reserved for high end hubs. Available in two options: Campagnolo (aluminum) and HG11 (in aluminum with the Plasma Electrolytic Oxidation treatment) low weight, high stiffness.



The redesigned Khamsin<sup>™</sup> Asymmetric represents the entry level for Campagnolo<sup>®</sup> wheels only because of its fantastic pricing. With advanced characteristics such as Mega-G3<sup>™</sup> spoke lacing patterns, oversized flange and Spoke Dynamic Balance<sup>™</sup> technology it is clear that this wheel is a step above its competition. Campy Tech Lab<sup>™</sup> engineers have pushed the quality of this wheel even further incorporating an asymmetric rear rim that, when coupled with Mega-G3<sup>™</sup> lacing provides increased performance in terms of lateral and torsional rigidity as well as reactivity. The Khamsin<sup>™</sup> Asymmetric permits all cyclists with the opportunity to experience Campagnolo<sup>®</sup> quality and performance.

REAR WHEEL  
MEGA-G3<sup>™</sup>

FRONT WHEEL



Clincher: 1790 g



**DIFFERENTIATED RIM HEIGHT:**

24 mm at the front to provide optimal handling; 27,5 mm at the rear for transmitting all your power to the wheel.

**ASYMMETRIC RIM PROFILE:**

asymmetrical rear rim profile allows for better balancing of spoke tensions between drive and non drive side, giving better symmetry to an asymmetric component. Increased efficiency and reactivity are sure to be noted.

**DYNAMIC BALANCE<sup>™</sup>:**

every point of the rim is counter-balanced by an equal weight on the opposite side. Maximum stability of the wheel even at high speeds.

**EXCLUSIVE MEGA-G3<sup>™</sup> SPOKE PATTERN:**

perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. Mega-G3<sup>™</sup> eliminates vibrations even with “heavy” cyclists.

**STRAIGHT-HEAD SPOKE (LEFT SIDE):**

maximum stiffness of the wheel – maintains the spoke tension and long-lasting performance.

**OVERSIZED FLANGE:**

increases the torsional stiffness, increasing reactivity at each change of pace of the cyclist.

**ALUMINIUM AXLE:**

low weight, high stiffness.

**SEALED BEARINGS:**

maintains performance over time – longer bearing life.

A wheel that is requested by passionate cycle lovers to seasoned professionals alike. Light enough to tackle the steepest of climbs yet strong and flexible enough to affront the roughest of roads. The Calima<sup>™</sup> wheelset offers to all cyclists the possibility to experience the renowned quality and technology of Campagnolo<sup>®</sup>.

REAR WHEEL

FRONT WHEEL



Clincher: 1826 g



**24mm PROFILE:**

a 24mm symmetrical low profile rim that creates a front wheel that is precise in directional changes and a rear wheel that is reactive to power transfer and changes in pace.

**C17 CLASS FOR CLINCHER TYRES:**

to permit the fitting of a wider tyre (25 mm minimum) allowing for easier tyre fitting.

**GLUED RIM:**

glued rim for increased precision on the braking surface allowing smoother progressive braking.

**MACHINED PRECISE SPOKE SEAT:**

permitting a longer spoke life.

**ED (ELECTRODEPOSITION) BLACK SPOKES:**

Front: 18 radial spokes in stainless steel. Rear: 27 spokes in stainless steel with double spoke count on the cassette side.

**EXCLUSIVE G3<sup>™</sup> SPOKE PATTERN:**

creating a perfect balance of the spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel.

**ALUMINIUM HUBS:**

for increased lateral stiffness.

**G3<sup>™</sup> FLANGE ON THE REAR WHEEL:**

to increase torsional stiffness and greater reactivity with each change of pace.

**STEEL AXLE:**

increases wheel stiffness permitting a wheel geometry that allows the use of different free hub bodies. Hi-end free hub body using the same construction components normally reserved for high end hubs. Available in two options: Campagnolo (aluminum) and HG11 (steel).



Classic. And never skips a beat.

The Neutron™ Ultra™ are now a well-established symbol of success for Campagnolo® wheels.

Sought after by professionals and amateur cyclists alike, its characteristics are inimitable. Super lightweight on inclines and extremely reliable; they can be responsive when called upon, or comfortable against the hard pavement, even after hours in the saddle.

The Neutron™ Ultra™ encompasses everything a cyclist requires.

REAR WHEEL

FRONT WHEEL



Clincher: 1470 g



**EXCLUSIVE GEOMETRY OF THE POLYGONAL RIM:**

allows for an elastic rim, which is both comfortable and extremely responsive at the same time.

**REAR RIM WITH AN ASYMMETRICAL DRILLING:**

allows for a perfect alignment of the nipples and hub for better spoke tension, leaving no weak points.

**MILLED, LOW-PROFILE RIM:**

reduces the peripheral weight of the rim, and makes the wheel responsive and fast, especially in up-hill rides.

**STRAIGHT-HEAD STEEL SPOKES IN VARIABLE SECTIONS:**

maximum wheel torsional stiffness. Spoke tension is maintained and guaranteed performance with the best aerodynamics. Stability even at high speeds.

**CARBON FIBRE HUB BODY:**

high degree of lateral stiffness – reduces the weight to the minimum.

**OVERSIZED FLANGE:**

increases the torsional stiffness, increasing reactivity at each change of pace of the cyclist.

**CUP AND CONE BEARINGS:**

easy bearing adjustment – reduces possible bearing play – precision operation – maintains performance over time.













# TECH DATA

Over the course of the previous pages in this catalog you can find a great deal of general information regarding every Campagnolo® product. However, if you need more specific information and technical data we have compiled an even greater resource in the following section.

Should you need yet more information please visit: [www.campagnolo.com](http://www.campagnolo.com)

Please note that we reserve the right to change products, surface finish and specifications at any moment without prior notice.



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ROAD - RIM BRAKE

CARBON WHEELS

	NOMINAL WEIGHT [g]*	RIM MATERIAL	RIM SECTION: HEIGHT/WIDTH - mm (NOMINAL)	ULTRA-FIT™	LABELS	REQUIRES RIM TAPE	RIM FINISHING	NUMBER OF SPOKES		DYNAMIC BALANCE	SPOKES MATERIAL	SPOKE TYPE	DIFFERENTIAL SPOKES R/L	NUT/NIPPLE MATERIAL	O.L.D. [mm]	HUB BODY MATERIAL	CUPS & CONES BEARINGS	BEARINGS VERSION	HUB FINISHING	SPOKE ANTI-ROTATION SYSTEM	COMPATIBILITY
BORA™ ULTRA™ TT rear tub.	864	carbon	D/20		B		carb			carbon					130	alu	•	C	black		9/10/11
BORA™ ULTRA™ 35 rear tub.	480	carb	35/24,2		B/D		carb	18		RDB	SS	AE DB	alu	100	carb	•	C	blk/carb	•		
BORA™ ULTRA™ 35 rear tub.	690	carb	35/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	C	blk/carb	•		9/10/11
BORA™ ULTRA™ 35 rear tub. (HG)	690	carb	35/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	C	blk/carb	•		9/10/11
BORA™ ULTRA™ 50 front tub.	520	carb	50/24,2		B/D		carb	18		RDB	SS	AE DB	alu	100	carb	•	C	carb	•		
BORA™ ULTRA™ 50 rear tub.	695	carb	50/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	C	blk/carb	•		9/10/11
BORA™ ULTRA™ 50 rear tub. (HG)	695	carb	50/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	C	blk/carb	•		9/10/11
BORA™ ULTRA™ 80 front tub.	705	carb	80/20		B/D		carb	16		RDB	SS	AE DB	alu	100	carb	•	C	blk/carb	•		
BORA™ ULTRA™ 80 rear tub.	815	carb	80/20		B/D		carb	18/G3™		RDB	SS	AE DB	alu	130	carb	•	C	blk/carb	•		9/10/11
BORA™ ULTRA™ 80 rear tub. (HG)	854	carb	80/20		B/D		carb	18/G3™		RDB	SS	AE DB	alu	130	carb	•	C	blk/carb	•		9/10/11
BORA™ ONE 35 front tub.	505	carb	35/24,2		B/D		carb	18		RDB	SS	AE DB	alu	100	alu	•	U	black	•		
BORA™ ONE 35 rear tub.	710	carb	35/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	alu	•	U	black	•		9/10/11
BORA™ ONE 35 rear tub. (HG)	710	carb	35/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	alu	•	U	black	•		9/10/11
BORA™ ONE 50 front tub.	545	carb	50/24,2		B/D		carb	18		RDB	SS	AE DB	alu	100	alu	•	U	black	•		
BORA™ ONE 50 rear tub.	720	carb	50/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	alu	•	U	black	•		9/10/11
BORA™ ONE 50 rear tub. (HG)	720	carb	50/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	alu	•	U	black	•		9/10/11
BORA™ ULTRA™ 35 front cl.	575	carb	35/24,2		B/D		carb	18		RDB	SS	AE DB	alu	100	carb	•	C	blk/carb	•		
BORA™ ULTRA™ 35 rear cl.	785	carb	35/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	C	blk/carb	•		9/10/11
BORA™ ULTRA™ 35 rear cl. (HG)	785	carb	35/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	C	blk/carb	•		9/10/11
BORA™ ULTRA™ 50 front cl.	630	carb	50/24,2		B/D		carb	18		RDB	SS	AE DB	alu	100	carb	•	C	carb	•		
BORA™ ULTRA™ 50 rear cl.	805	carb	50/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	C	blk/carb	•		9/10/11
BORA™ ULTRA™ 50 rear cl. (HG)	805	carb	50/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	C	blk/carb	•		9/10/11
BORA™ ONE 35 front cl.	600	carb	35/24,2		B/D		carb	18		RDB	SS	AE DB	alu	100	alu	•	U	black	•		
BORA™ ONE 35 rear cl.	805	carb	35/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	alu	•	U	black	•		9/10/11
BORA™ ONE 35 rear cl. (HG)	805	carb	35/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	alu	•	U	black	•		9/10/11
BORA™ ONE 50 front cl.	655	carb	50/24,2		B/D		carb	18		RDB	SS	AE DB	alu	100	alu	•	U	black	•		
BORA™ ONE 50 rear cl.	830	carb	50/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	alu	•	U	black	•		9/10/11
BORA™ ONE 50 rear cl. (HG)	830	carb	50/24,2		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	alu	•	U	black	•		9/10/11

ALU/CARBON WHEELS

BULLET™ ULTRA™ front cl.	727	alu/carb	50/20,5		B/D		carb	18		RDB	SS	AE DB	alu	100	alu	•	U/C	black	•		
BULLET™ ULTRA™ rear cl.	863	alu/carb	50/20,5		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	alu	•	U/C	black	•		9/10/11
BULLET™ ULTRA™ rear cl. (HG)	902	alu/carb	50/20,5		B/D		carb	21/G3™		RDB	SS	AE DB	alu	130	alu	•	U/C	black	•		9/10/11
BULLET™ front cl.	785	alu/carb	50/20,5		B		carb	18		RDB	SS	AE DB	BR	100	alu		S	black	•		
BULLET™ rear cl.	970	alu/carb	50/20,5		B		carb	21/G3™		RDB	SS	AE DB	BR	130	alu		S	black	•		9/10/11
BULLET™ rear cl. (HG)	1009	alu/carb	50/20,5		B		carb	21/G3™		RDB	SS	AE DB	BR	130	alu		S	black	•		9/10/11

KEY

**DB**=Butted - **AE**=Aero - **UAE**=Ultra Aero - **SS**=Stainless steel - **BR**=Brass - **S**=steel - **U**=USB™ - **C**=CULT™ - **SDB**=Spoke Dynamic Balance - **RDB**=Rim Dynamic Balance  
**B**=Bright - **D**=Dark - **BLK SAT**=black satinized

\* Average weight - does not include the quick-release and the rim-tape - wheel weight may vary depending on the tolerance of the production process.



ROAD - RIM BRAKE

ALUMINIUM WHEELS

	NOMINAL WEIGHT [g]*	RIM MATERIAL	RIM SECTION: HEIGHT/WIDTH - mm (NOMINAL)	ULTRA-FIT™	LABELS	REQUIRES RIM TAPE	RIM FINISHING	NUMBER OF SPOKES		DYNAMIC BALANCE	SPOKES MATERIAL	SPOKE TYPE	DIFFERENTIAL SPOKES R/L	NIPPLE MATERIAL	O.L.D. [mm]	HUB BODY MATERIAL	CUPS & CONES BEARINGS	BEARINGS VERSION	HUB FINISHING	SPOKE ANTI-ROTATION SYSTEM	COMPATIBILITY
SHAMAL™ MILLE™ front cl.	638	alu	24-27/22		D	blk sat	16		RDB	alu	AE DB		alu	100	alu/carb	•	U	blk/carb	•		
SHAMAL™ MILLE™ rear cl.	821	alu	27-30/22		D	blk sat	21/G3™		RDB	alu	AE DB		alu	130	alu/carb	•	U	blk/carb	•		9/10/11
SHAMAL™ MILLE™ rear cl. (HG)	821	alu	27-30/22		D	blk sat	21/G3™		RDB	alu	AE DB		alu	130	alu/carb	•	U	blk/carb	•		9/10/11
SHAMAL™ ULTRA™ front cl.	623	alu	24-27/22		B	black	16		RDB	alu	AE DB		alu	100	alu/carb	•	U	blk/carb	•		
SHAMAL™ ULTRA™ rear cl.	826	alu	27-30/22		B	black	21/G3™		RDB	alu	AE DB		alu	130	alu/carb	•	U	blk/carb	•		9/10/11
SHAMAL™ ULTRA™ rear cl. (HG)	826	alu	27-30/22		B	black	21/G3™		RDB	alu	AE DB		alu	130	alu/carb	•	U	blk/carb	•		9/10/11
SHAMAL™ ULTRA™ 2-Way Fit™ front	641	alu	24-27/22	•	B	black	16		RDB	alu	AE DB		alu	100	alu/carb	•	U	blk/carb	•		
SHAMAL™ ULTRA™ 2-Way Fit™ rear	834	alu	27-30/22	•	B	black	21/G3™		RDB	alu	AE DB		alu	130	alu/carb	•	U	blk/carb	•		9/10/11
SHAMAL™ ULTRA™ 2-Way Fit™ rear (HG)	834	alu	27-30/22	•	B	black	21/G3™		RDB	alu	AE DB		alu	130	alu/carb	•	U	blk/carb	•		9/10/11
EURUS™ front cl.	640	alu	24-27/20		B	black	16		RDB	alu	AE DB		alu	100	alu	•	S	black	•		
EURUS™ rear cl.	825	alu	27-30/20		B	black	21/G3™		RDB	alu	AE DB		alu	130	alu	•	S	black	•		9/10/11
EURUS™ rear cl. (HG)	864	alu	27-30/20		B	black	21/G3™		RDB	alu	AE DB		alu	130	alu	•	S	black	•		9/10/11
EURUS™ 2-Way Fit™ front	645	alu	24-27/20	•	B	black	16		RDB	alu	AE DB		alu	100	alu	•	S	black	•		
EURUS™ 2-Way Fit™ rear	840	alu	27-30/20	•	B	black	21/G3™		RDB	alu	AE DB		alu	130	alu	•	S	black	•		9/10/11
EURUS™ 2-Way Fit™ rear (HG)	879	alu	27-30/20	•	B	black	21/G3™		RDB	alu	AE DB		alu	130	alu	•	S	black	•		9/10/11
ZONDA™ front cl.	678	alu	24-27/22		B	black	16		RDB	SS	AE DB		BR	100	alu	•	S	black	•		
ZONDA™ rear cl.	862	alu	27-30/22		B	black	21/G3™		RDB	SS	AE DB		BR	130	alu	•	S	black	•		9/10/11
ZONDA™ rear cl. (HG)	862	alu	27-30/22		B	black	21/G3™		RDB	SS	AE DB		BR	130	alu	•	S	black	•		9/10/11
SCIROCCO™ front cl.	746	alu	35/22		B	•	black	16		SS	AE DB		alu	100	alu		S	black	•		
SCIROCCO™ rear cl.	908	alu	35/22		B	•	black	21/G3™		SS	AE DB		alu	130	alu		S	black	•		9/10/11
SCIROCCO™ rear cl. (HG)	908	alu	35/22		B	•	black	21/G3™		SS	AE DB		alu	130	alu		S	black	•		9/10/11
KHAMSIN™ ASYMMETRIC front cl.	815	alu	24/20,5		B	•	black	18		S			BR	100	alu		S	black			
KHAMSIN™ ASYMMETRIC G3™ rear cl.	975	alu	27,5/20,5		B	•	black	24/G3™		S/SS			BR	130	alu		S	black			9/10/11
KHAMSIN™ ASYMMETRIC G3™ rear cl. (HG)	1014	alu	27,5/20,5		B	•	black	24/G3™		S/SS			BR	130	alu		S	black			9/10/11
CALIMA™ front cl.	789	alu	24/22		B	•	black	18		S			BR	100	alu		S	black			
CALIMA™ rear cl.	1037	alu	24/22		B	•	black	27/G3™		S			BR	130	alu		S	black			9/10/11
CALIMA™ rear cl. (HG)	1089	alu	24/22		B	•	black	27/G3™		S			BR	130	alu		S	black			9/10/11
NEUTRON™ ULTRA™ front cl.	630	alu	18/20,5		B	•	black	22		SS	AE DB		alu	100	alu/carb	•	S	blk/carb			
NEUTRON™ ULTRA™ rear cl.	840	alu	18/20,5		B	•	black	24		SS	AE DB	•	alu	130	alu/carb	•	S	blk/carb			9/10/11
NEUTRON™ ULTRA™ rear cl. (HG)	879	alu	18/20,5		B	•	black	24		SS	AE DB	•	alu	130	alu/carb	•	S	blk/carb			9/10/11

KEY

DB=Butted - AE=Aero - UAE=Ultra Aero - SS=Stainless steel - BR=Brass - S=steel - U=USB™ - C=CULT™ - SDB=Spoke Dynamic Balance - RDB=Rim Dynamic Balance  
B=Bright - D=Dark - BLK SAT=black satinized

\* Average weight - does not include the quick-release and the rim-tape - wheel weight may vary depending on the tolerance of the production process.



ROAD - DISC BRAKE

CARBON WHEELS

	NOMINAL WEIGHT [g]*	RIM MATERIAL	RIM SECTION: HEIGHT/WIDTH - mm [NOMINAL]	ULTRA-FIT™	LABELS	REQUIRES RIM TAPE	RIM FINISHING	NUMBER OF SPOKES		DYNAMIC BALANCE	SPOKES MATERIAL	SPOKE TYPE	DIFFERENTIAL SPOKES R/L	NIPPLE MATERIAL	O.L.D. [mm]	HUB BODY MATERIAL	CUPS & CONES BEARINGS	BEARINGS VERSION	HUB FINISHING	SPOKE ANTI-ROTATION SYSTEM	COMPATIBILITY
BORA™ ONE 35 front cl. BORA™ ONE 35 rear cl. BORA™ ONE 35 rear cl. (HG)	690	carb	35/23,5		B/D		carb	24/G3™		RDB	SS	AE DB		alu	100	alu	•	U	black	•	
	793	carb	35/23,5		B/D		carb	24/G3™		RDB	SS	AE DB		alu	130	alu	•	U	black	•	9/10/11
	793	carb	35/23,5		B/D		carb	24/G3™		RDB	SS	AE DB		alu	130	alu	•	U	black	•	9/10/11
BORA™ ONE 35 front tub. BORA™ ONE 35 rear tub. BORA™ ONE 35 rear tub. (HG)	585	carb	35/24,2		B/D		carb	24/G3™		RDB	SS	AE DB		alu	100	alu	•	U	black	•	
	691	carb	35/24,2		B/D		carb	24/G3™		RDB	SS	AE DB		alu	130	alu	•	U	black	•	9/10/11
	691	carb	35/24,2		B/D		carb	24/G3™		RDB	SS	AE DB		alu	130	alu	•	U	black	•	9/10/11
BORA™ ONE 50 front tub. BORA™ ONE 50 rear tub. BORA™ ONE 50 rear tub. (HG)	622	carb	50/24,2		B/D		carb	24/G3™		RDB	SS	AE DB		alu	100	alu	•	U	black	•	
	726	carb	50/24,2		B/D		carb	24/G3™		RDB	SS	AE DB		alu	130	alu	•	U	black	•	9/10/11
	726	carb	50/24,2		B/D		carb	24/G3™		RDB	SS	AE DB		alu	130	alu	•	U	black	•	9/10/11

ALUMINIUM WHEELS

SHAMAL™ ULTRA™ 2-Way Fit™ front SHAMAL™ ULTRA™ 2-Way Fit™ rear SHAMAL™ ULTRA™ 2-Way Fit™ rear (HG)	715	alu	24-27/22	•	B		black	21/G3™		RDB	alu	AE DB		alu	100	alu/carb	•	U	blk/carb	•	
	842	alu	27-30/22	•	B		black	21/G3™		RDB	alu	AE DB		alu	130	alu	•	U	blk/carb	•	9/10/11
	842	alu	27-30/22	•	B		black	21/G3™		RDB	alu	AE DB		alu	130	alu	•	U	blk/carb	•	9/10/11
ZONDA™ DB front cl. ZONDA™ DB rear cl. ZONDA™ DB rear cl. (HG)	786	alu	26-28/22		B		black	21/G3™		RDB	SS	AE DB		alu	100	alu	•	S	black	•	
	889	alu	26-28/22		B		black	21/G3™		RDB	SS	AE DB		alu	135-142	alu	•	S	black	•	9/10/11
	889	alu	26-28/22		B		black	21/G3™		RDB	SS	AE DB		alu	135-142	alu	•	S	black	•	9/10/11

TRIATHLON - TIME TRIAL

BORA™ ULTRA™ TT rear tub.	864	carbon	D/20		B		carb				carbon				130	alu	•	C	black		9/10/11
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PISTA

GHIBLI™ front tub. track GHIBLI™ rear tub. track	800	carb	D/20												100	alu	•	C			
	825	carb	D/20												120	alu	•	C			
PISTA™ front tub. track PISTA™ rear tub. track	995	alu	38/20		B		black	20			SS	AE		alu	100	alu	•	S	black		
	1040	alu	38/20		B		black	24			SS			alu	120	alu	•	S	black		
BORA™ ULTRA™ 80 front tub. track	705	carb	80/20		B		carb	16		RDB	SS	AE DB		alu	100	carb	•	C	blk/carb	•	

KEY  
DB=Butted - AE=Aero - UAE=Ultra Aero - SS=Stainless steel - BR=Brass - S=steel - U=USB™ - C=CULT™ - SDB=Spoke Dynamic Balance - RDB=Rim Dynamic Balance  
B=Bright - D=Dark - BLK SAT=black satinized  
\* Average weight - does not include the quick-release and the rim-tape - wheel weight may vary depending on the tolerance of the production process.



The Service Center is the reference point for all Campagnolo® dealers and its aim is to provide an adequate after-sales service to Campagnolo® users. Service Centers are a territorial extension of Campagnolo srl and work exclusively with dealers, no exceptions made. The Service Centers handle two activities: After-sales Service and Spare Parts Service.

The After-sales Service provides technical assistance for products under guarantee or otherwise, enabling cyclists to enjoy the first-class characteristics of Campagnolo® products for long, without forfeiting safety, performance and endurance. The Spare Parts Service handles the distribution of spare parts. Campagnolo® possesses a large inventory of spare parts and is able to replenish its distribution system adequately in relatively short times.

We therefore advise you to refer to your Campagnolo® dealer for any expert action required by your bikes - these dealers are the only ones supported by the constant, skilled collaboration of Campagnolo® Service Centers.

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