



Fulcrum ROAD 2010

ENG



[www.fulcrumwheels.com](http://www.fulcrumwheels.com)



**FULCRUM**





**Wheels influence the bicycle's behaviour more than any other component.** As they are rotating weight, they are crucial for bike performance: that is why riders are so attentive to their choice of wheels. Fulcrum® designs and assembles rims, spokes, and hubs to obtain optimum efficiency. Our mission is to implement new technologies to optimize performance, a guarantee of excellence which we pursue every day alongside our riders. Here are some examples of our continuous strive towards innovation:

The Two-to-One™ solution which improves the traction of the spokes on the rear wheel. Dynamic Balance™ balances the wheel compensating the weight in the rim joint area. Tubeless versions enhance smoothness and eliminates friction at the tyre level. Finally, we adopted the ceramic ball bearing concept and evolved it.

The riders we sponsor have put all our wheels through the toughest tests.

Now this advanced technology is finally available to everyone.



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# Pro-Teams

## Pro-Teams Fulcrum

Fulcrum® works in direct contact with the pros, and the results have exceeded even our highest expectations in terms of performance. Since our debut in the world of professional racing, Fulcrum® wheels have conquered four world titles on the road in five years of competitions. Tom Boonen in 2005, Paolo Bettini's fabulous double shot in 2006 and 2007, and Alessandro Ballan's victory in 2008 all made Fulcrum's debut incredibly exciting.

The Fulcrum® wheels range faithfully reflects the different competition types, from in-line races to time trials, climbing the most demanding hills, and tackling the toughest weather conditions. Our riders know that they will be able to count on products that guarantee the best performance possible.

The choice of materials is our greatest strength. We carry out extreme and painstaking tests on each of our products to ensure the excellence of every model and the highest performance in all conditions. No one better than us understands that the difference also depends on little details at certain levels: this is why we treat every single component with personalized care. The riders are an integrating part of our philosophy: it is for them that we develop products that are extreme in terms of performance and quality. Thanks to us, they can count on the most advanced technologies present on the market. Since we are ahead of the market and by owning a Fulcrum® product, you are already ahead in the race.

Ourselves and the Fulcrum® Teams: an unbreakable combo in the evolution of perfection.

## 2008

A. Ballan  
(Team Lampre)

## 2007

R. Bettini  
(Team Quick-Step Innergetic)

## 2006

R. Bettini  
(Team Quick-Step Innergetic)

## 2005

T. Boonen  
(Team Quick-Step Innergetic)

# 4 TIMES WORLD CHAMP

## One

world title can be a piece of luck

## Two

are confirmation

## Four

indisputable domination.



Pro-Teams

FULCRUM





### Hirth Joint

### OS-Fit™ for oversize frames

### CULT™

#### Hirth Joint™

The Fulcrum® Racing Torq™ crankset structure consists of two semi-axles fixed to the respective arms and coupled together by means of a frontal joint of the Hirth type.

The Ultra Torque™ axle assembly is inside the bottom bracket shell in order to reduce lateral bulk. Its life over time is increased by the new anodization treatment which also comes with a darker and more aggressive colour. Compatibility with the most common drivetrains is ensured.

#### OS-Fit™ Cups

The Ultra Torq™ OS-Fit™ cups by Fulcrum® have been designed to respond to the growing trend of frames with oversize bottom bracket shell. We developed these cups so that we wouldn't have to modify the distinctive performance features and lightness of the Racing Torq™ crankset. The OS-Fit™ cups simply replace the standard Racing Torq™ cups and have the same bearing seat function. OS-Fit™ cups are available in versions compatible with bottom bracket shells with 86.5 mm diameter and with BB30 bottom brackets, and are 20 grams lighter than the standard cups. A special tool is required for fitting the OS-Fit™ cups.



#### CULT™

Ceramic Ultimate Level Technology, CULT™. It's the technical advancement adopted for the most revolutionary crankset in the Fulcrum® range, the Racing Torq™ RRS, an unprecedented system which guarantees performance at the maximum level. As well as using the best ceramic ball bearings on the market, a new treatment for the races and bearings has been developed with Cronitect® steel, using the "Advanced by FAG" technology by Schaeffler Group. This leads to the maximum level of resistance to corrosion so that no grease is needed for lubrication.



#### Racing Torq™ RRS

There are no compromises in the top of the range crankset in the Fulcrum® series. The use of CULT™ technology and of the High Efficiency Hard-Ox anodization treatment for the chainrings make this model suitable for the toughest and most extreme competitive use. Weight is kept low thanks to Hollow Crank Technology™.



#### RACING TORQ™ RRS

MODEL	OPTIONS	DESCRIPTION	WEIGHT (g)*
<b>crankset</b> RACING TORQ™ RRS CARBON 10s	170, 172.5, 175 mm 39-52, 39-53	Fulcrum® Hollow Crank Technology composite crankarms - light alloy fixing bolts and nuts - CULT™ bearings (Ceramic Ultimate Level Technology) - integrated ULTRA-TORQUE™ semi-axles - requires RACING TORQ™ BB cups	695
<b>crankset</b> RACING TORQ™ RRS CT™ CARBON 10s	170, 172.5, 175 mm 34-50	Fulcrum® Hollow Crank Technology composite crankarms - light alloy fixing bolts and nuts - CULT™ bearings (Ceramic Ultimate Level Technology) - integrated ULTRA-TORQUE™ semi-axles - requires RACING TORQ™ BB cups	695
<b>BB outboard cups</b> RACING TORQ™	ITA, ENG	aluminium	49
<b>integrated cups</b> RACING TORQ™ OS-Fit™	86,5x41, BB30	aluminium - integrated cups for oversize shells	29



## RS standard



The Racing Torq™ RS has been conceived for competitive racing at the maximum level and uses Fulcrum® Hollow Crank Technology which allows cranksets to be made with arms with an internal cavity and therefore achieve weight while maintaining the structural quality intact.



## RS compact



## R standard



The Racing Torq™ R on the other hand is perfect for intense and persistent use, typical of enthusiasts of high calibre even if not necessarily athletes. Fulcrum® cranksets feature the Campagnolo® Ultra Torque™ system, the only one that can guarantee lightness, rigidity, simple assembly and maintenance.



## R compact

### RACING TORQ™ RS

MODEL	OPTIONS	DESCRIPTION	WEIGHT (g)*
<b>crankset</b> RACING TORQ™ RS CARBON 10s	170, 172.5, 175 mm 39-52, 39-53	Fulcrum® Hollow Crank Technology composite crankarms - light alloy fixing bolts and nuts - integrated ULTRA-TORQUE™ semi-axles - requires RACING TORQ™ BB cups	699
<b>crankset</b> RACING TORQ™ RS CT™ CARBON 10s	170, 172.5, 175 mm 34-50	Fulcrum® Hollow Crank Technology composite crankarms - light alloy fixing bolts and nuts - integrated ULTRA-TORQUE™ semi-axles - requires RACING TORQ™ BB cups	699
<b>BB outboard cups</b> RACING TORQ™	ITA, ENG	aluminium	49
<b>integrated cups</b> RACING TORQ™ OS-Fit™	86,5x41, BB30	aluminium - integrated cups for oversize shells	29

### RACING TORQ™ R

MODEL	OPTIONS	DESCRIPTION	WEIGHT (g)*
<b>crankset</b> RACING TORQ™ R CARBON 10s	170, 172.5, 175 mm 39-52, 39-53	composite crankarms - integrated ULTRA-TORQUE™ semi-axles - requires RACING TORQ™ BB cups	751
<b>crankset</b> RACING TORQ™ R CT™ CARBON 10s	170, 172.5, 175 mm	34-50 - composite crankarms - integrated ULTRA-TORQUE™ semi-axles - requires RACING TORQ™ BB cups	751
<b>BB outboard cups</b> RACING TORQ™	ITA, ENG	aluminium	49
<b>integrated cups</b> RACING TORQ™ OS-Fit™	86,5x41, BB30	aluminium - integrated cups for oversize shells	29



Pro-Teams

FULCRUM

Pro-Teams  
cycling





## 2-Way Fit™ Tubeless & Clincher Profile

## Ultra-Fit™ Tubeless

## Dynamic balance™

## Max compatibility



*Campagnolo®  
freewheel body*

### 2-Way-Fit™ Tubeless & Clincher Profile

Tubeless technology was first used by the auto industry, then by motorcycles and now has reached the cycling industry. After its debut with mountain bikes the moment has come to "put it on the road", and that's what we propose to do. We have developed our 2-Way Fit™ technology to ensure the perfect compatibility of our tubeless rims with normal clincher types and tubes. 2-Way Fit™ wheels are perfectly multipurpose for tackling every situation.

Thanks to a special impression in the valve area, the tubes are fitted with the maximum precision while keeping the tube perfectly stable inside the tyre. Housing the valve for tubeless tyres is also risk-free, with the unquestionable advantage that there are never any air infiltrations caused by non-ideal positioning when fitting.

The advantages are indisputable: our tests have highlighted an unique increase in smoothness. Because there is no tube,

the friction caused by rubbing against the tyre is eliminated, while the perfect adherence of the tyre to the rim prevents the dispersion of energy.

Tubeless tyres do not suffer from sudden deflation when punctured which is a great advantage in safety terms. There is also no risk of snake bites as there is no tube to rupture.

### Ultra-Fit™ Tubeless

Here's the interface between the tubeless tyre and the rim. The form we have studied for our rims with Ultra-Fit™ Tubeless technology means that the sides of the tyre mate perfectly with the shoulders of the rim when it is fitted. The result is exceptionally smooth: for whizzing speedily without tubes!

By eliminating every possible movement between the rim and tubeless tyres, all energy dispersion is also eliminated. The Ultra-Fit™ Tubeless wheels well exceed any other wheel fitted with traditional tyres in our tests. The first installing of the tyre is also made with great ease: two special tracks on the rim groove keep the tyre perfectly in position.

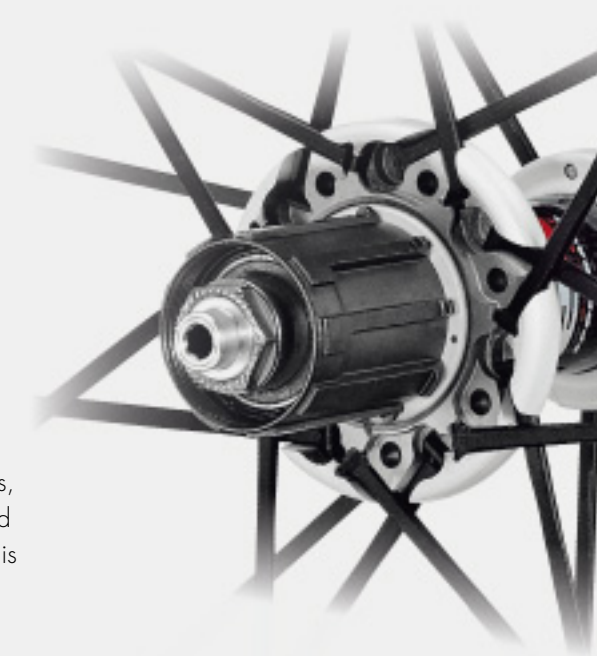
### Dynamic Balance™

Unlike carbon rims, **all the aluminium rims** are joined. The joint, though indispensable, entails a concentration of material in a single point and creates an annoying "jump" effect at speed. Fulcrum® has eliminated this annoying problem with the Dynamic Balance™ patent. The concept is simple and elegant: balance the mass of the joint with a mass of the same weight. For top models, this is obtained by a special operation on the section of the rim opposite the rim joint. For entry-level models, Dynamic Balance™ is obtained by using two oversized spokes in the section opposite the joint. The result is a wheel with perfectly balanced rotational dynamics.

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.

### Maximum Compatibility

Thanks to the two versions of the freewheel body, all Fulcrum® 2010 wheels are compatible with all Campagnolo® drivetrains, with Shimano Inc. 8, 9 and 10-speed systems and with the Sram Co. 10-speed system.



*Shimano Inc.  
freewheel body*



### CULT™

### USB™

### NEW!

### Spoke anti-rotation system

### NEW!

### Quick release

### MoMag™

### 2:1 Two-to-One™ Spoke Ratio



### CULT™

It stands for Ceramic Ultimate Level Technology. But, above all, it is the technology we have developed, fine-tuned, and then adopted exclusively for the realization of the bearings with ceramic balls.

Behind CULT™ is the exclusiveness of Cronitect® steel, using the "Advanced by FAG" technology by Schaeffler Group., for the bearing races.

This is a stainless steel with exceptional hardness and resistance to corrosion, exalted by a thermo-chemical treatment of the surface layer.

Extremely high resistance to corrosion: Cronitect® has achieved exceptional results in the salt spray fog test and stands out on top from the other stainless steels.

### USB™

The high quality smoothness of Fulcrum® wheels is a universally recognised fact. The decision to produce our own bearings rather than using standard ones has resulted in performance and service life unequalled on the market.

This year, for the Racing Zero model, we decided to make further improvements and introduced the ceramic USB™ (Ultra Smooth Bearings).

For this technological solution Fulcrum® chose the best ceramic balls available on the market - Silicon Nitride (Si<sub>3</sub>N<sub>4</sub>) – so compared to the already extraordinary quality of the steel ball bearings normally used by Fulcrum®, USB™ bearings have truly astonishing features:

- 30% lighter
- 40% more resistant

### New spoke anti-rotation system

The new Fulcrum® Racing Speed™ and Racing 3 2-Way Fit™ wheels are equipped with the new spoke anti-rotation system patented by Fulcrum®. This new system raises the concept of spoking to new heights of performance.

The Fulcrum® engineers have redesigned the spokes and the hub housings to create a solid and unmoveable whole.

The result is that the spokes  
a) will never lose their initial tension, thus keeping the wheel perfectly reactive and centred, and  
b) will remain in the position that was found in wind tunnel tests to ensure the best aerodynamic penetration possible.

### New quick releases

Though at first glance the new Fulcrum® quick releases may seem identical to the previous version, if you take a closer look you'll see that they've been significantly modified, especially in terms of operation. Modifications that translate into even more effective and secure locking.

The Fulcrum® engineers worked assiduously to improve the cam effect, and they were successful. Thanks to the new modifications, there is an increased cam effect that you can sense when closing the skewer. When operating it, you perceive an intermediate step that lets you know that closure is accomplished, followed by a softening of the lever that leads to the completion of the operation.

### MoMag™

Though they have no holes in the rim bed, rims have spokes tensioned by traditional nipples. This makes tensioning and changing the spokes extraordinarily easy, and does away with questionable anchoring systems on the rim.

This solution was made possible thanks to the Fulcrum® MoMag™ patent which exploits magnetic power and a good dose of ingenuity to guide the nipples to the correct rim holes.

### 2:1 Two-to-One™ Spoke Ratio

When you push on the pedals, the rotational force on the sprocket induces a slackening of the freewheel spokes with a consequent loss of rim tension. This results in undesirable flex of the whole wheel and an unavoidable loss of energy. Fulcrum® has solved this classic cycling problem with its 2:1 Two-to-One™ Spoke Ratio patent, by doubling the spokes in the critical zones.

As a result there are two spokes which carry out the function of one, slackening and torsion are limited and the transfer of the athlete's power is much more effective.

Also, thanks to this system, spoke tensions are balanced more evenly between drive and non-drive sides and the fatigue life of the rim, hub and spokes is lengthened.



racing cycling





# Racing Zero 2-Way Fit™

New!

2-Way Fit™

Ultra-Fit™ Tubeless

MoMag™

USB™

New Quick Release



**Racing Zero 2-WayFit™** Red spokes, black rims: wheels that are absolutely unmistakable in the middle of the peloton. Two powerful colours and exclusive technology stand out from the crowd and make these wheels unique in terms of performance and personality. Racing Zero wheels are at the top of the Fulcrum® range. The 2-Way Fit™ (Tubeless & Clincher) version is fitted without tubes, mostly to the advantage of safety and comfort but also in terms of performance.



Front wheel

This is an advantageous product which offers a double choice, allowing you to choose the benefits of tubeless or the practicality of clincher tyres.

Thanks to **Ultra-Fit™ Tubeless technology**, the use of the tubeless tyres drastically improves smoothness and reduces the risk of snake biting on rough roads. The release of air is also gradual in the event of puncturing: there is no risk of sudden deflation.

The rim is made using a **special extrusion procedure which thins the walls**. At the same time, the 26 millimetre thickness is a guarantee of strength. A rim of this type is excellent in terms of resistance and weight. Further lightening has been obtained by milling the material between the spoke anchoring points while the rim is perfectly balanced thanks to Dynamic Balance™ technology.

The spokes are made of aluminium with an aerodynamic profile. There are 16 in the front wheel, radially laced; 21 in the rear: 7 on the left and 14 on the right, in accordance with Two-to-One™ technology.

The hubs with carbon body and alloy axle are now equipped with **USB™ ceramic bearings** that increase smoothness, prolong service life, and further reduce the weight of the wheels.

Racing Zero 2-Way Fit™ wheels are compatible with Campagnolo®, Shimano Inc. and Sram Co. drivetrains and are supplied with the new Fulcrum® quick releases.



New quick release





# Racing 1 2-WayFit™

2-Way Fit™

Ultra-Fit™ Tubeless

MoMag™

New Quick Release

New!



New quick release

Thanks to 2-Way Fit™ it is also possible to fit traditional clincher tyres with tubes.

The application of tubeless technology guarantees excellent smoothness. The aluminium rims have a 24 millimetre profile for the front and 28 for the rear and are lightened by milling between the spoke coupling points.

There are 16 aluminium spokes for the front wheel and 21 for the rear. They are fitted in accordance with a well-tried Fulcrum® solution, which has now been upgraded to enhance their performance on rims differentiating front and rear profiles. The arrangement is radial on the front and with doubling spokes on the freehub side on the rear (Two-to-One™).

The spokes have an aerodynamic and tapered profile but are strengthened close to the hub and nipples.

The oversize hubs contribute to the rigidity of the wheel, both the hub and axle are made of aluminium and take straight-head spokes. They are enhanced with the new Fulcrum® quick releases.

The diameter of the right-hand flange on the rear hub is oversized. The freehub body that houses the sprockets can be selected from Campagnolo®, Shimano Inc., or Sram Co. versions.



**Racing 1 2-WayFit™** These are top of the range wheels which are also suitable for everyday use. Even if Racing 1 2-Way Fit™ wheels have been conceived for racing, it is also ideal for everyday training. The new version of the Racing 1 2-Way Fit™ has been slimmed down by a full 50 grams, thanks to the introduction of **new spokes in aluminium** with aerodynamic profile and aluminium nipples. Ultra-Fit™ Tubeless technology ensures perfect tightness between the tyre and rim and the inflation pressure remains constant over time.

Front wheel

New spokes and aluminium nipples





# Racing 3 2-Way Fit™

New!

2-Way Fit™

Ultra-Fit™ Tubeless

MoMag™

Anti-rotation

New Quick Release



The rim thicknesses have been reduced externally, with the characteristic milling for lightening developed by Fulcrum®, and internally, reducing to the maximum the thickness of the aluminium extrusion so that it is as light as possible but equally strong. Here, too, Fulcrum Dynamic Balancer™ keeps the Racing 3 2-Way Fit™ wheels perfectly stable even at high speed. Incredible efforts were also made in designing the spokes to reduce every single gram without compromising performance and strength. In this case, Fulcrum® maintained the same spoke pattern (16 radial for the front and 21 with 2:1 ratio for the rear), but intervened on the thicknesses: 2.2/2/1.5/2 for the front spokes and left side rear and 2/1.8/2 on the cassette side. Also regarding the spokes, Fulcrum® has introduced the **new spoke anti-rotation system** that keeps them perfectly in position and facilitates servicing operations. The oversize hubs have an aluminium body and axle and adjustable high precision bearings for the maximum performance. Racing 3 2-Way Fit™ wheels are compatible with the Campagnolo®, Shimano Inc. and Sram Co. drivetrains and are supplied with the new Fulcrum® quick releases.



## Racing 3 2-Way Fit™

The Racing 3 2-Way Fit™ wheels have a more marked competitive nature, as demonstrated by the 65 grams of difference that separate them from the Racing 3 model. Starting from the same design, Fulcrum® found a way to make them even more high performance by improving even the tiniest detail. As the name clearly denotes, the rim has the 2-Way Fit™ profile that makes it possible to use both tubeless and standard clincher tires on the same wheel, thereby obtaining the best from both technologies.



Front wheel

New spoke anti-rotation system





Pro-Teams





# Racing Zero clincher & tubular **New!**

FIDIS  
MoMag™

USB™

New Quick Release

Zero



## Racing Zero Clincher

Racing Zero is the top wheel of the Fulcrum® aluminium range. Its extraordinary performance features and high impact aesthetics make it stand out from the crowd.

The rims are made of extremely high precision aluminium extrusions that make it possible to eliminate all the excess material, so they are ultra-light but at the same time very strong. The front and rear wheel profiles are differentiated: the 26 mm height for

the front guarantees excellent aerodynamic penetration, while the 30 mm of the rear wheel means extremely effective transmission of your pedalling power. Both rims feature the special Fulcrum lightening between the anchoring points of the spokes and the patented Dynamic Balance™ system that guarantees the maximum stability of your bike even at high speeds.

The hubs have a carbon fibre body and aluminium flange; the special bearings combined with a larger number of balls compared to the standard version place the Zero at the top in terms of smoothness and service life. But we wanted more, so we decided to substitute the high quality steel ball bearings with **the ceramic USB** (Ultra Smooth Bearing) specially developed by Fulcrum®. This solution significantly increases the smoothness of the wheels, reduces servicing needs, and further decreases the weight.

The spokes are aluminium aero spokes arranged in a radial pattern on the front wheel for better aerodynamic penetration and in the Fulcrum® 2:1 pattern on the rear wheel for immediate transmission of pedal stroke with no dissipation of energy. The nipples are also aluminium, further reducing the peripheral mass of the wheels and thereby increasing their performance.

Racing Zero wheels are compatible with Campagnolo®, Shimano Inc. and Sram Co. drivetrains and are supplied with the new Fulcrum® quick releases.

Front wheel



Racing Zero Tubular





# Racing 1 clincher

New!

MoMag™

Alu-Nipples

New Quick Release



Both rims feature the characteristic Fulcrum® toroidal milling between the anchoring points of the spokes. The fact that the rim grooves do not have holes translates into greater torsional stiffness and greater vertical elasticity.

The spokes are in aluminium with aero profile and a central section of 2.6 mm, 16 radial for the front wheel and 21 for the rear wheel distributed according to the famous Fulcrum® 2:1 spoking, with double the number of spokes on the cassette side. The nipples are in aluminium, too, which reduces the important peripheral mass of the wheel, thereby increasing its performance in acceleration.

The oversize hubs are in aluminium. Smoothness is guaranteed by special bearings designed and produced by Fulcrum® that have many more balls than normal industrial bearings and hence produce unparalleled smoothness.

Racing 1 wheels were born to be fast, so Fulcrum has equipped them with the patented Dynamic Balance™ system that makes them stable and precise even at high speed.

Racing 1 wheels are compatible with Campagnolo®, Shimano Inc. and Sram Co. drivetrains and are supplied with the new Fulcrum® quick releases.



## Racing 1 Clincher

Racing 1 wheels have competition in their DNA. If you're looking for a lightweight wheel that gives the best performance under any condition and has a marvellously aggressive look, you've found it. The aluminium rims have a differentiated profile front and rear. The front wheel height is 26 mm to achieve perfect aerodynamic penetration, while the rear increases to 30 mm to provide all the stiffness necessary to transmit every watt of your power.

Front wheel



New quick release





# Racing 3 clincher

MoMag™

Aero Spokes

New Quick Release



New quick release



## Racing 3 Clincher

Racing 3 wheels are ideal for both racing and for everyday training. The aluminium rim, with a height of 26 mm, features special milling for lightness, an exclusive Fulcrum® patent. The rim bed is not drilled. Therefore, in addition to the weight advantage provided by the elimination of the need for rim tape, the undrilled rim bed also features a mechanical advantage: greater torsional rigidity and greater vertical elasticity for the wheel.



Front wheel

The oversize hubs, with an aluminium body and axle, feature adjustable high-precision bearings to achieve the best performance every time.

The 2 mm steel spokes have an aerodynamic profile which enhances aerodynamic penetration and reduces the formation of vortices.

There are 16 spokes for the front and 21 for the rear wheel. The spoking is of the radial type for the front wheel and of the crossed type with doubling of the righthand spokes for the rear.

Racing 3 wheels incorporate an exclusive Fulcrum® feature: Dynamic Balance™. The wheel is balanced during rotation thanks to a special rim design that counterbalances the joint section.

Racing 3 wheels are compatible with Campagnolo®, Shimano Inc. and Sram Co. drivetrains and are supplied with the new Fulcrum® quick releases.





# 34 **Racing 5** clincher

Dynamic Balance™

Aero Spokes

New!



**Racing 5** wheels are designed for everyday use and training. An optimum proposal from Fulcrum® which guarantees excellent quality. **The hubs** are oversized and provided with flanges for blade hammer-head spokes. Smoothness is ensured by sealed high-quality bearings and they have a new single-piece body which incorporates the freewheel body and pawl carrier in a single component with a considerable reduction of weight.



Front wheel

**The spokes** have blade hammer-heads of the Aero type and differentiated thickness, 24 in the front wheel and 27 in the rear wheel. There is radial spoking for the front wheel and the patented Fulcrum® 2:1 Two-to-One™ Spoke Ratio for the rear wheel. Also unchanged is the presence of Dynamic Balance™ which, thanks to two oversized spokes, balances the concentration of the rim joint material during wheel rotation.



**The rim** is a medium-sectioned one with a height of 24 mm with reinforcing eyelets for the spokes and turned braking surfaces. The new Racing 5 wheels have a **deeper upper bridge** of the rim to facilitate clincher tire fitting. Racing 5 wheels are compatible with Campagnolo®, Shimano Inc. and Sram Co. drivetrains.





# <sup>36</sup> Racing 7 clincher

New!

2:1 Two-to-One™

Red Hub option



Racing 7 wheels have an aluminium rim with a height of 24 mm and aerodynamic profile and machined braking surfaces with wear indicator. Hubs are oversize, flanged, and turning on sealed cylindrical bearings.

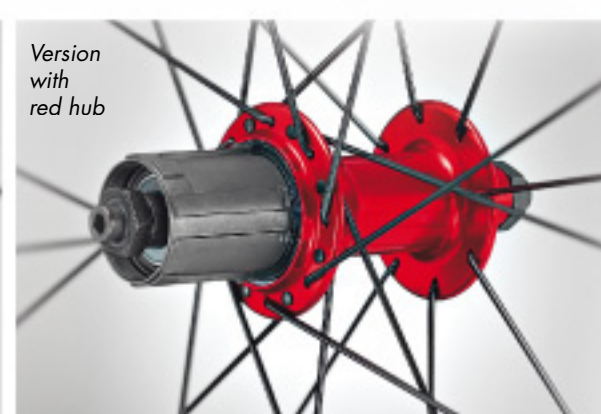
Twenty 2 mm spokes are radially laced on the front wheel to improve the bike's aerodynamics. The rear wheel, on the other hand, has 24 spokes laced according to Fulcrum's renowned 2:1 Two-to-One™ geometry to improve transmission of the athlete's power.

Racing 7 wheels are available in black or black & red colour versions and are compatible with Campagnolo®, Shimano Inc. and Sram Co. drivetrains.

**Racing 7:** high-quality wheels at an affordable price. With Racing 7, Fulcrum® offers light, high-performance wheels which are reliable over time.



Front wheel



Version with red hub



Pro-Teams

FULCRUM

riding  
racing  
racing





# Racing Light™ XLR

## clincher & tubular

CULT™

Full-Carbon

New Quick Release



**Racing Light™ XLR** wheels are ideal for climbers and others too. In this version they are enhanced by carbon fibre hub bodies which act on Cronitec®\* stainless steel bearing races with CULT™ ceramic ball bearing technology.

*Clincher*



*Tubular*



Exemplary results: they improve the lightness, the rotation fluidity of the hubs and their life over time.

The low profile rim is available for tubular or clincher tyres. It is fitted with 22 radial spokes on the front wheel and 24 on the rear with doubling of the spokes on the freehub side (Two-to-One™ technology) to obtain a snappy response during sprints and uphill.

The carbon rims are made using a particular technique by which the carbon fabric is aligned so that the resulting rim is always balanced.

The carbon hub is strong and makes it possible to save weight compared with the aluminium version. Compatibility with Campagnolo®, Shimano Inc., or Sram Co. drivetrain systems and are supplied with the new Fulcrum® quick release.



# Racing Speed™ XLR

## tubular

CULT™

Full Carbon

High-Profile

New Quick Release



### Racing Speed™ XLR

Racing Speed™ wheels are much loved by professional cyclists. Their widespread diffusion is due to the wheel's many features: the high rim profile combined with lightness make this model particularly suitable for the most varied racing situations.



Front wheel



In the Racing Speed™ XLR version the hub body is made of carbon. The balls of the bearings implement CULT™ technology with its super-high strength and smoothness thanks to Cronitect®\* stainless steel with thermo-chemically treated surface layer. The rim has a 50 millimetre profile and is supported by 18 radially-laced spokes in the front wheel and 21 in the rear with doubling on the freehub side using Two-to-One™ technology. The carbon rims are made using a particular technique by which the carbon fabric is aligned so that the resulting rim is always balanced. The use of pads for special brakes is necessary. The Racing Speed™ XLR are supplied with the new Fulcrum® quick release.



New quick release





# Racing Speed™ tubular

High-Profile

Carbon Fiber Rim

New Quick Release

Anti-rotation

New!

# SR



The rim is entirely made of carbon fibre, with a height 50 mm.

The carbon rims are made using a particular technique by which the carbon fabric is aligned so that the resulting rim is always balanced.

The spokes are burnished, 18 radial for the front wheel and 21 with Fulcrum® 2:1 spoke ratio for the rear wheel.

The oversize hubs are in aluminium and feature the innovative spoke anti-rotation system created by Fulcrum®, which consistently guarantees the maximum aerodynamic penetration of the aero spokes.

Like the Racing Speed™ XLR model, the Racing Speed™ wheels also require the use of special pads for carbon fibre developed by Fulcrum® and are supplied with the new Fulcrum® quick releases.

## Racing Speed™

With the addition of the Racing Speed™ model to the range, Fulcrum® has democratized the high profile carbon fibre wheel. Racing Speed™ reflects every feature of the design lines of the Racing Speed™ XLR model, becoming the entry level model of the high profile carbon range.



Front wheel



New spoke  
anti-rotation  
system





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# Racing Chrono™

## tubular

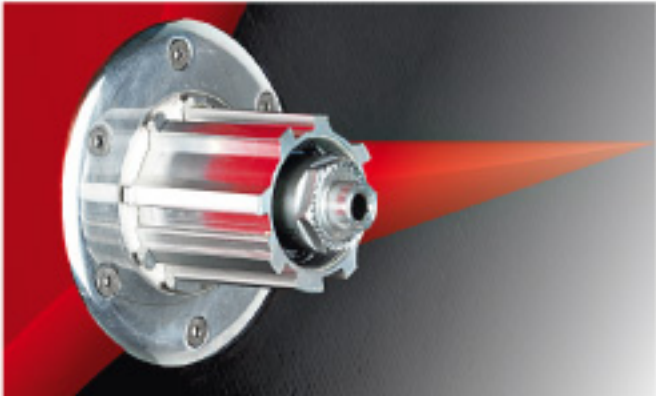
CULT™

Aerodynamic wheel

New Quick Release



The **Racing Chrono™** wheel accepts no compromises: it is dedicated to the most demanding riders, the time trial specialists. The aerodynamic surface is a tensile structure made of polyaramide, a composite which ensures structural strength and aerodynamic penetration. The 2009 upgrades regarded the use of ceramic ball bearings using CULT™ technology which exploits Cronitect®\* steel to improve the wheel's smoothness and performance. Furthermore, the ceramic ball bearings are much more resistant to wear. The braking tracks are made of aluminium. The Racing Chrono™ are supplied with the new Fulcrum® quick release.



Tech info

	Light™ XLR					Speed™					Chrono™	
	RACING LIGHT™ XLR clincher front	RACING LIGHT™ XLR clincher rear	RACING LIGHT™ XLR tubular front	RACING LIGHT™ XLR tubular rear		RACING SPEED™ XLR tubular front	RACING SPEED™ XLR tubular rear	RACING SPEED™ tubular front	RACING SPEED™ tubular rear		RACING CHRONO™ tubular rear	
weight*	595	750	546	680		577	747	590	770		1010	
nominal and ETRTO width	20,5/13	20,5/13	20/-	20/-		20/-	20/-	20/-	20/-		19/-	
CULT™/USB™ bearings	C	C	C	C		C	C	no	no		C	
dynamically balanced (R=rim; S=spokes)	R	R	R	R		R	R	R	R		no	
spoke anti-rotation system	no	no	no	no		no	no	yes	yes		no	
machining	no	no	no	no		no	no	no	no		no	
spoke material	stainless steel	stainless steel	stainless steel	stainless steel		stainless steel	stainless steel	stainless steel	stainless steel		-	
number of spokes	22 radial	8 left 16 right	22 radial	8 left 16 right		18 radial	7 left 14 right	18 radial	7 left 14 right		-	
type of spokes	aero with variable section	aero with variable section	aero with variable section	aero with variable section		aero with variable section	aero with variable section	aero with variable section	aero with variable section		disc	
HUB material (body/axle)	carb-alu/Alu	carb-alu/Alu	carb-alu/Alu	carb-alu/Alu		carb-alu/Alu	carb-alu/Alu	carb-alu/Alu	carb-alu/Alu		Alu/Alu	
compatibility	100mm	130mm CAMPA 9/10/11 HG 8/9/10	100mm	130mm CAMPA 9/10/11 HG 8/9/10		100mm	130mm CAMPA 9/10/11 HG 8/9/10	100mm	130mm CAMPA 9/10/11 HG 8/9/10		132mm CAMPA 9V	
* average weight - does not include the quick-release and it refers to the lightest configuration												

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	Zero 2-Way Fit™		1 2-Way Fit™		3 2-Way Fit™		Zero				1		3		5		7	
	RACING <b>ZERO</b> 2-Way Fit™ front	RACING <b>ZERO</b> 2-Way Fit™ rear	RACING <b>1</b> 2-Way Fit™ front	RACING <b>1</b> 2-Way Fit™ rear	RACING <b>3</b> 2-Way Fit™ front	RACING <b>3</b> 2-Way Fit™ rear	RACING <b>ZERO</b> clincher front	RACING <b>ZERO</b> clincher rear	RACING <b>ZERO</b> tubular front	RACING <b>ZERO</b> tubular rear	RACING <b>1</b> clincher front	RACING <b>1</b> clincher rear	RACING <b>3</b> clincher front	RACING <b>3</b> clincher rear	RACING <b>5</b> clincher front	RACING <b>5</b> clincher rear	RACING <b>7</b> clincher front	RACING <b>7</b> clincher rear
weight*	625	835	645	860	680	915	610	825	615	815	635	850	736	923	775	985	855	1075
nominal and ETRTO width	20,5/15	20,5/15	20,5/15	20,5/15	20,5/15	20,5/15	20,5/15	20,5/15	20/-	20/-	20/15	20/15	20/15	20/15	20/15	20/15	20/15	20/15
CULT™/USB™ bearings	U	U	no	no	no	no	U	U	U	U	no	no	no	no	no	no	no	no
dynamically balanced (R=rim; S=spokes)	R	R	R	R	R	R	R	R	R	R	R	R	R	R	S	S	no	no
spoke anti-rotation system	no	no	no	no	yes	yes	no	no	no	no	no	no	no	no	no	no	no	no
machining	3	3	3	3	1	1	3	3	3	3	3	3	1	1	no	no	no	no
spoke material	aluminium	aluminium	aluminium	aluminium	stainless steel	stainless steel	aluminium	aluminium	aluminium	aluminium	aluminium	aluminium	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel
number of spokes	16 radial	7 left 14 right	16 radial	7 left 14 right	16 radial	7 left 14 right	16 radial	7 left 14 right	16 radial	7 left 14 right	16 radial	7 left 14 right	16 radial	7 left 14 right	20 radial	8 left 16 right	20 radial	8 left 16 right
type of spokes	ultra aero with variable section	ultra aero with variable section	aero with variable section	aero with variable section	aero with variable section	aero with variable section	aero with variable section	aero with variable section	aero with variable section	aero with variable section	aero with variable section	aero with variable section	aero	aero	aero with variable section	aero with variable section	standard 2mm	standard 2mm
HUB material (body/axle)	Carb/Alu/ Alu	Carb/Alu/ Alu	Alu/ Alu	Alu/ Alu	Alu/ Alu	Alu/ Alu	Carb/Alu/ Alu	Carb/Alu/ Alu	Carb/Alu/ Alu	Carb/Alu/ Alu	Alu/ Alu	Alu/ Alu	Alu/ Alu	Alu/ Alu	Alu/ Steel	Alu/ Steel	Alu/ Steel	Alu/ Steel
compatibility	100mm	130mm CAMP 9/10/11 HG 8/9/10	100mm	130mm CAMP 9/10/11 HG 8/9/10	100mm	130mm CAMP 9/10/11 HG 8/9/10	100mm	130mm CAMP 9/10/11 HG 8/9/10	100mm	130mm CAMP 9/10/11 HG 8/9/10	100mm	130mm CAMP 9/10/11 HG 8/9/10	100mm	130mm CAMP 9/10/11 HG 8/9/10	100mm	130mm CAMP 9/10/11 HG 8/9/10	100mm	130mm CAMP 9/10/11 HG 8/9/10

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