



2014 ROAD
CYCLOCROSS
OFF-ROAD

 **FULCRUM®**



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2013 FULCRUM® TEAMS - ROAD

The Fulcrum brand is dedicated to developing the fastest wheels that modern technology can produce. A great deal of this work is done by the Fulcrum engineers in the Italian headquarters. However, in order to design and produce a faster wheel they must rely not only on laboratory results but also on feedback from the strongest athletes in the world.



► LAMPRE MERIDA

2013 has witnessed **Lampre Merida** atop the performance wheels from Fulcrum in their bid to put in an even better season than last. The Italian based team has a long history with Fulcrum wheels with several success stories and top podium spots in the most historic races in the world. With excellent riders such as Michele Scarponi, Damiano Cunego, Filippo Pozzatto and Roberto Ferrari the teams tradition of victory is bound to continue.

Product development in Fulcrum is carried out through a close collaboration with athletes competing at the highest level in order to assure that they give tangible advantages under the most extreme conditions. This dedication to excellence has enabled Fulcrum to produce the best components available while allowing athletes using them to achieve numerous victories at the most important races in modern cycling.



► AGR2 LA MONDIALE

AG2R La Mondiale is a new face to the Fulcrum family and has been ready for action above their new high-performance wheels. The French team has relied on the vast range of Fulcrum wheels that offers a solution for any and all conditions they may encounter during the long and demanding professional racing calendar. Jean-Cristophe Peraud and Christophe Riblon have count on the superior technology of CULT™ bearings and Fulcrum profile rims to help them ride with the least resistance possible and achieve memorable results during Tour the France 2013 including the historic win of Riblon at Alpe d'Huez. Newcomers to the team such as Domenico Pozzovivo and Davide Appollonio have brought experience from other top teams to help AG2R make an even bigger impact in 2013.

2013 FULCRUM® TEAMS - ROAD



► ANDRONI GIOCATTOLI

Team Androni Giocattoli has also relied on the technical advantages that Fulcrum wheels provide to give its athletes an edge over the competition during this year's racing season. With Franco Pellizotti and Francesco Reda as their point men, 2013 has seen some exciting finishes. Fabio Feltin also rounds out a stellar line-up full of youthful and promising talent making this year's team one that surely made its impact in several key races this year.

2013 FULCRUM® TEAMS - OFF-ROAD

While Fulcrum is synonymous with victory on the road, it is also well known for its performance off-road line-up and naturally, some of the best athletes in the world ride atop Fulcrum wheels.



► MULTIVAN MERIDA

Since its inception in 2004, the **Multivan Merida Biking Team** has been one of the strongest race teams in professional mountain biking. In an effort to improve even further the team has chosen to use the superior technology of Fulcrum wheels for an added advantage over the competition. For the 2013 season the team has a very strong roster combining stellar returning talent in the form of José Hermida and Gunn-Rita Dahle Flesjå and new but extremely talented riders such as Netherlands's mountain biker of the year Rudi van Houts as well as the under23 World champions of 2011 and 2012, Thomas Litscher and Ondrej Cink.

By combining experienced and talented veteran riders with very promising, young riders, the **Multivan Merida Biking Team** has been very competitive in cross country, cross country eliminator and selected marathon and stage races. In their quest for the top spot on the podium week in and week out during the 2013 season they have been aided by the full line of Fulcrum performance off road wheels giving them the perfect solution no matter the terrain or discipline.



ROAD



Every enthusiast will be able to find the wheel that is best suited for his or her characteristics.

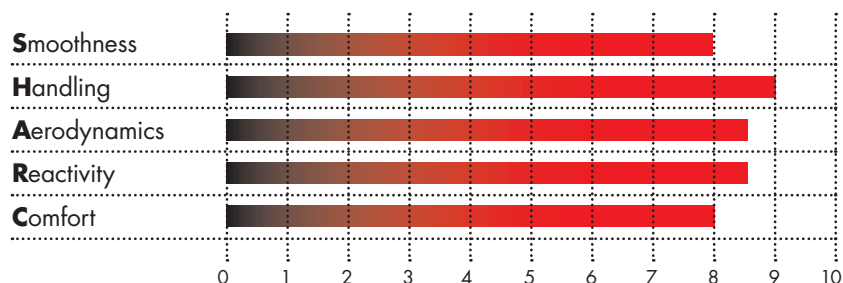
The Fulcrum Road Range offers solutions for every condition course, discipline and budget. From the professional level full carbon wheels to the high performance aluminium line, the Fulcrum range offers a complete selection with two common denominators: **quality and performance**.

Discover their characteristics.

S.H.A.R.C.

No two wheels are alike, and no two riders.

This is why Fulcrum®, 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.



Fulcrum® provides you with all the technical information, but now it's up to you to decide which is the perfect wheel for your needs!

Your passion, your way of riding your bike, and your feeling will enable you to make the best choice.



2-WAY FIT™ WHEELS

RACING ZERO™	9	9	8,5	9	8
RACING 1	8	9	8,5	8,5	8
RACING 3	8	9	8,5	8	8,5

CLINCHER/TUBULAR WHEELS

RACING ZERO™	9	9	8,5	9	8
RACING 1	8	9	8,5	8,5	8
RACING 3	8	9	8,5	8	8,5
RACING QUATTRO	8,5	8,5	9	8	8,5
RACING 5	7,5	8	7,5	7	9
RACING 7	7,5	7,5	7,5	6,5	8,5

ALU/CARBON WHEELS

RED WIND™ XLR	10	8	9	7,5	8
RED WIND™ XLR 80 mm	10	7	9,5	6,5	8
RED WIND™ XLR 105 mm	10	6	10	6	7
RED WIND™	8,5	8	9	7,5	8

CARBON WHEELS

RACING SPEED™ DISC	10	6	10	7,5	5
RACING LIGHT™ XLR	10	10	6	10	9
RACING SPEED™ XLR 35	10	9	9	9	9
RACING SPEED™ XLR	10	9	9	10	9
RACING SPEED™ XLR 80	10	7	10	9	8
RACING SPEED™ 35	8,5	9	9	9	9
RACING SPEED™	8,5	9	9	9,5	9

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 bearings, or the USB™ ceramic bearings, or thanks to other technologies applied to the wheel such as 2-Way Fit™.

HANDLING

Handling refers to the agility and reactivity of the wheel when changing direction or while taking a curve. The way a wheel handles is determined by several factors such as spoke geometry, hub design, material use, rim cross section and tire choice.

AERODYNAMIC

The aerodynamics of a wheel refer to its ability to penetrate the air and reduce drag. The aerodynamic qualities of a given wheel are determined by the height and profile of the rim, design and form of the spokes as well as the number of spokes used.

REACTIVITY

How quickly does the wheel react to input from the rider, both in the form of acceleration and deceleration as well as change of direction? The reactivity of the wheel is dependant on several factors including the weight of the rim, the weight of the entire wheel, rotational mass, torsional stiffness, lateral stiffness and also friction.

COMFORT

Would you rather that your wheel absorb vibrations originating from the road or do you prefer a stiffer, more efficient but perhaps less comfortable ride? The comfort index gives you insight as to just how much vibration and road noise any wheel in our line is capable of cancelling in the event of less than even pavement.

F.I.C. FULCRUM® IDENTIFICATION CARD

Since its inception Fulcrum® has been dedicated to researching, developing, designing, testing, producing and perfecting wheels that live up to the prestigious red "F" that symbolizes the quality standard required of all products that leave our factory.

With an extensive R&D department, Fulcrum® takes pride in producing the most advanced, reliable and highest performing products possible. The studies and development behind all of our products is extensive in order to ensure the maximum in performance and product integrity. To guarantee the same quality and performance in each and every product that leaves the factory a meticulous quality control system has been put in place. Every single product must undergo a series of intense and strict testing at every stage in the production process as well as a post production test in order to confirm that every wheel, spoke and quick release is in line with our stringent quality standards.



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 wheels with possible obstacles. The Fulcrum® tests have successfully passed the tests required by UCI standards.

ENVIROMENT TEST

exposure to UVA and UVB rays, salt attack and exposure to moisture: these are the tests that all Fulcrum® wheels must pass to ensure maximum performance and reliability over time.

100% MANUALLY ASSEMBLED AND ELECTRONICALLY CHECKED

The pre-emptive tests mentioned above may be sufficient. But not for Fulcrum® who wants to ensure the highest quality of each individual wheel, checking the parameters at the end of the production process. This is why Fulcrum® made a clear and conscious choice: to assemble each wheel manually and submit it to a series of final checks that guarantee their quality.

The only way to ensure that each and every wheel that bears the Fulcrum name lives up to our quality standards is by using a completely manual assembly process by trained and specialized personnel. Once every product is produced it must then pass through both manual and digital inspections carried out by qualified Fulcrum® staff.

- **Balancing:** guarantees the absence of vibrations at fast speed.
- **Lateral and radial control:** guarantees the perfect alignment of the wheel to ensure the wheel is true from all angles.
- **Camber:** ensures the perfect symmetry of the wheels with the bicycle.
- **Spokes tension:** ensures optimal balance at every point of the wheel.
- **Rolling torque of the hub:** ensures a perfect adjustment of the hubs.

We must be sure that every wheel we produce is up to our standards, but you, the cyclist and consumer must also be sure. To further ensure the quality and integrity of each and every product we produce Fulcrum® implemented a program that began in 2012 which assigns every single wheel its own Identity Card. This identity card uniquely identifies each wheel and certifies that it has been manually assembled and has passes all tests and controls required by our strict protocol.



ALUMINIUM/CARBON Project

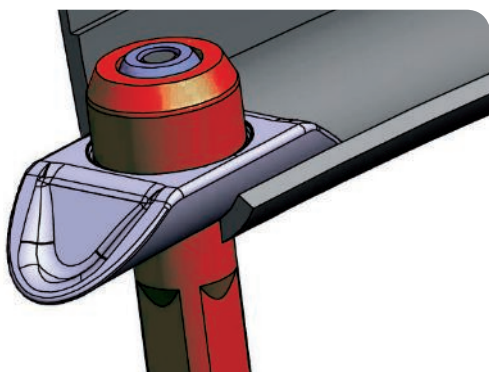
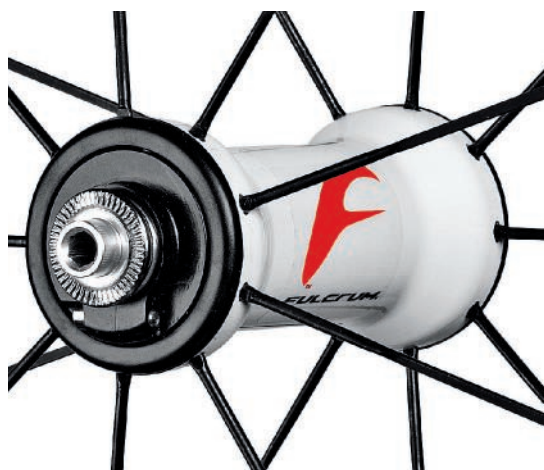
Not all aluminium/carbon wheels are identical. Even for this range of wheels Fulcrum® demanded top performance levels, pursuing clearly challenging project targets.



Maximum technology has also been applied to this new range of wheels. Fulcrum® has indeed designed these wheels by setting 4 clear objectives to be able to achieve maximum performance and reliability:

- Improve **reactivity** and **responsiveness**
- Develop products with extremely low rolling resistance. **Smoothest functionality possible.**
- **Aerodynamics** designed and optimised to minimise the coefficient of air penetration and, at the same time, make the wheel easy to handle and safe even with cross winds.
- Develop wheels with extremely **competitive weight** for their category.

The results of countless hours of research and development along with prototype after prototype made all of the effort worthwhile as both lab testing and consumer feedback confirm that all objectives have been met.



RESPONSIVENESS

The alu/carbon wheel line has been designed and built with technical details that aim to make them incredibly reactive and responsive to the slightest input from the rider.

Upsize Flange

The size of right flange of the rear wheel has been designed in order to maximise the transmission of power to the wheel and to increase the torsional rigidity of the wheel thus making it more reactive.

Innovative Spoke design and Layout

The 2 to 1 system that allows for double the spokes on the drive side of the rear wheel increase both the lateral and torsional stiffness of the wheel. This design increases power transfer making the wheel more efficient and performance oriented. This system also reduces the strain on each individual spoke on the drive side and allows for a more balanced spoke tension between right and left sides offering both increased durability of the wheel as well as heightened stability.

Straight-head spokes

Lack of curvature in spoke design allows for greater tensions which in turn make the wheel more reactive and responsive. Straight head design also maintains spoke tension better over time.

DRSC™: Directional Rim-Spoke Coupling

Allows perfect alignment between rim, spoke, nipples and hub despite angle of entry or profile design. This unique solution permits higher spoke tension while eliminating dangerous stress between components. Higher spoke tension with increased durability translates into greater performance with no reliability issues.



SMOOTHNESS

Fulcrum® wheels have always stood apart from the competition for their extremely low rolling resistance. Red Wind™ wheels have the same ultra smooth and efficient functionality thanks to the leading-edge technology, sophisticated materials and technical solutions developed by the Fulcrum engineers in their development and production.

CULT™ technology

The CULT™ technology used in our higher end wheels represents a bearing system that is 9 times smoother than traditional steel bearings. Special treatment of the cup/cone using CRONITECT® technology developed by Schoeffler in addition to the most advanced and sophisticated ceramic bearings available make for a rolling resistance that makes a huge difference in performance. This particular system eliminates the need for grease and uses only a small amount of oil to ensure optimum performance.

USB™ technology

using the best ceramic bearings allows to reduce friction, increase smoothness and maintain performance over time.

Exclusive bearing adjustment system

the system designed by Fulcrum® to adjust the bearings allows for easy and immediate maintenance; it also allows the races/bearings to always maintain the correct position.

Cone/Cup System

maintains the most efficient angle of contact between the bearings and bearing seat structure.

WEIGHT

Anyone can make a light wheel. However, not everyone can reduce weight while maintaining or increasing performance with no compromises in reliability. Fulcrum's significant experience in both wheel production and cutting edge technologies allows us to do just that and the result is a line of wheels that excell in all areas. Fulcrum's advanced moulding technique allows for production of carbon profiles with no priming and no paint, thus minimizing weight and maximizing grams for structural purposes.

AERODYNAMICS

Aerodynamics are paramount to the efficiency of the cyclist. In many cases the force required to move air is actually greater than the force required to continue momentum. Taking this into account it is of utmost importance to reduce to a minimum the impact that aerodynamic resistance has on the cyclist.

Fulcrum does its part by dedicating engineering resources to optimize the aerodynamic profile of all of its wheels. Countless hours are spent designing the perfect profile but also to develop the wheel as a whole so as to slip through the wind as a complete unit.

Excruciating attention to detail sees engineers optimizing other variables such as spoke profile, nipple design, spoke count and quick release design all to create the most functional complete unit to give you that added aerodynamic advantage come race day.



2-WAY FIT™

2-WAY FIT™
TUBELESS & CLINCHER PROFILE

2-Way Fit™ profile for tubeless and clincher

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.

You may ask, "what do I do if I get a flat with a tubeless tyre?" Not to worry! With Fulcrum® 2-way Fit™ you must simply remove the tubeless valve and use a standard inner tube to get you back home.

ULTRA-FIT™



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 will exceed any other wheel fitted with traditional tyres in our tests.

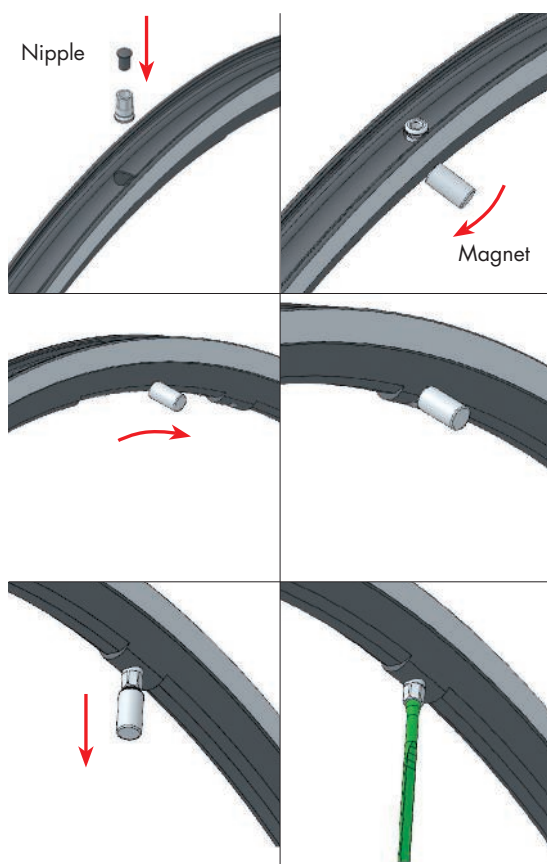
Installing a tubeless tyre with the Ultra-Fit™ Tubeless system is as easy as with traditional tyres. Two special grooves on the inside of the rim keep the tyre perfectly in position.

The exclusive shape of the rim was developed in the Fulcrum® Research & Development department. The rim profile coincides exactly with the negative of the tubeless profile.

Thanks to this feature, rims with the Ultra-Fit™ profile have some important advantages:

- Less friction between rim and tubeless tyre
- Lower rolling resistance
- Easy mounting of the tubeless tyre
- Maximum safety in case of flat tyre

MoMag™



Mounting Magnet

What is MoMag™?

A magnet and lots of ingenuity.

This was what led to the patent for the well-tested "Mounting Magnet" system, or 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

A rim with no spoke holes on the tire side means that the rim is completely uniform and thus eliminating high stress areas or weaker points. It also eliminates the need for rim tape as the sharp edges of the spoke hole are no longer a threat. No rim tape also means less weight.

The advantages are immediately clear

- **greater rim lifetime**
- **greater resistance to fatigue**
- **the possibility to give the spokes greater tension**
- **greater stiffness**

There are countless performance advantages associated with this technology but not to be overlooked are also the ease of maintenance and spoke replacement.

RDB™ Rim Dynamic Balance

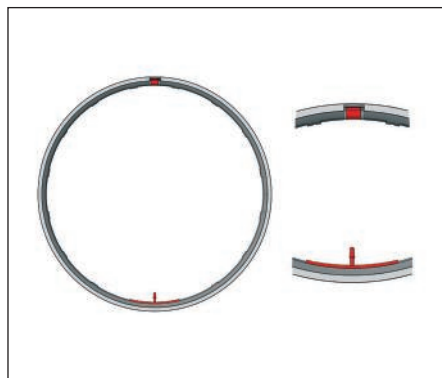
Dynamic Balance™ aluminium rims

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.

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.

Rim Dynamic Balance™ carbon wheels

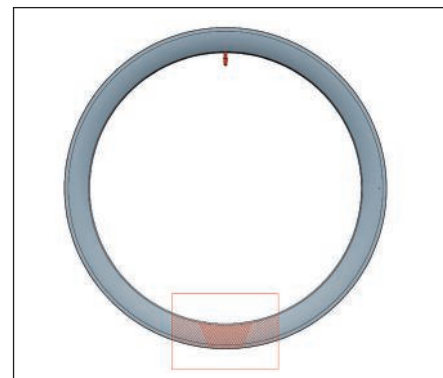
For carbon wheels the principle is the same, but applied using a different technology. When making carbon rims, the pieces of carbon fabric are aligned in such a manner that the resulting rim is always balanced.



The weight of the rim joint is balanced at the opposed end by the unfilled valve seat. The weight is thereby balanced and the rim is stable and balanced even at high speeds.



The principle is always the same: balance the weight at every point of the rim. In this case the rim joint is balanced by 2 spokes with a different weight than the rest.



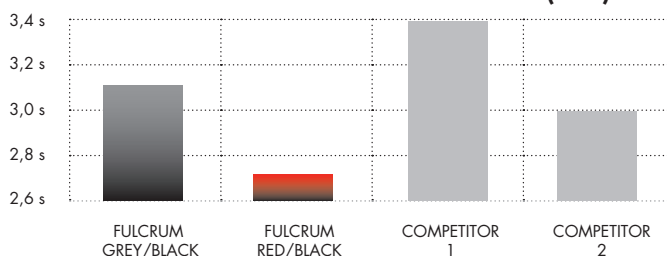
Thanks to a particular study on the positioning of the carbon skins, the rim is balanced at every point.

BRAKE PADS

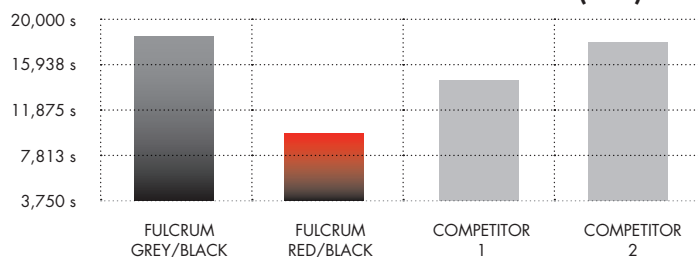


Our engineers dedicate countless hours working on improving every last detail of our wheels and a large part of wheel performance is measured by its stopping distance. To maximize braking performance the Fulcrum R&D department has developed internally brake pads made specifically for our carbon wheels. The special blend that resulted from seemingly unending rounds of testing increases brake performance on both dry and wet surfaces without increasing the war and tear on the pad or the braking surface of the rim.

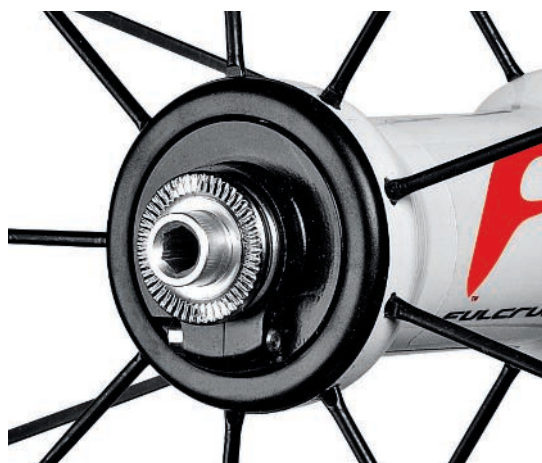
BRAKING TIME ON DRY SURFACE (sec.)



BRAKING TIME ON WET SURFACE (sec.)



Anti-Rotation System



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.

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.



CERAMIC ULTIMATE LEVEL TECHNOLOGY

MAXIMUM SMOOTHNESS FOR MAXIMUM PERFORMANCE

Ceramic Ultimate Level Technology™

There are wheels and there are wheels made with CULT™ technology. Wheels will get you to where you are going with varying levels of fatigue depending on the make and model. Wheels made with CULT™ technology will get you to the finish line faster, with less fatigue and will last considerably longer. Those looking for the fastest, most efficient and durable wheels need look no further as they may simply choose the technology that even the best pro-tour riders have come to demand: CULT™.

You can rest assured that if your wheels are made with CULT™ technology you are sitting on the fastest and most efficient wheels available. So superior is the CULT bearing technology that laboratory tests prove that hubs equipped with CULT™ technology run 9 times longer than standard bearings. Other tests involve spinning the wheel equipped with CULT™ technology at 500RPM and then allowing it to decelerate. The CULT™ equipped wheel continues to spin for a full 45 minutes.

Being able to roll as friction free as possible is of utmost importance as it is one key element in reducing fatigue and increasing efficiency. In other words, smoother and more efficient bearings allow you to ride faster using less energy. CULT™ technology allows the rider to spend less energy on overcoming friction and enabling him or her to be fresher at critical points in the race. At similar power output, CULT™ bearings allow the rider to maintain higher average speeds, thus translating into crucial time savings.





USB™

**USB™ CERAMIC
ULTRA SMOOTH BEARINGS**

Ultra Smooth Bearings™

Fulcrum® has a long-standing reputation for the extremely high performance of its hubs in terms of smoothness and reliability.

In fact, we develop each and every hub in house and place obsessive care into the most minute detail.

With this work ethic and attention to detail in mind we choose to employ USB™ ceramic bearings to further reduce our wheels' rolling resistance, weight and 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.



3DIAMANT™



3Diamant™ - brake surface treatment

Never content to accept good enough as a quality benchmark, Fulcrum® is dedicated to continually raising the standards for performance. Even though the current braking performance on its full carbon wheelsets was of superior quality, Fulcrum® engineers sought to improve even further the stopping power and shorten stopping distance of its products. To ensure optimum performance in all conditions an improved braking surface to work in tandem with the brake pads specifically made for Fulcrum® carbon wheels was studied and developed.

The outcome of this research produced the new 3Diamant™ surface treatment which, using advanced machinery and state of the art diamond tipped precision tools, eliminates imperfections caused by non-homogenous resin deposits and allows the brake pad to work directly atop specially woven carbon fibers. This new process eliminates the “breaking-in” period, improves braking performance under both wet and dry conditions and creates a more linear and smooth overall braking performance.

No need to second guess your wheel choice based on the weather conditions, with 3Diamant™ brake surface treatment from Fulcrum® you can push harder in all conditions.



QUICK RELEASE



What is the Fulcrum® Quick Release?

The Fulcrum® Quick Release is not simply a wheel locking/release system. First and foremost, it is the component that guarantees the cyclist's safety, especially at high speeds, such as in road races. The Fulcrum® Quick Release project started with a very clear objective: the maximum performance in terms of easy assembly/disassembly, weight, smoothness of the wheel, but without compromising safety in any way.

The patented Fulcrum® 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.

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 Fulcrum® 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.



2-WAY FIT™ WHEELS

RACING ZERO				•	
RACING 1				•	
RACING 3				•	

CLINCHER/TUBULAR WHEELS

RACING ZERO				•	
RACING 1				•	
RACING 3			•		
RACING QUATTRO			•		
RACING 5	•				
RACING 7	•				

ALU/CARBON WHEELS

RED WIND™ XLR					•
RED WIND™ XLR 80 mm					•
RED WIND™ XLR 105 mm					•
RED WIND™			•		

CARBON WHEELS

RACING SPEED™ DISC					•
RACING LIGHT™ XLR					•
RACING SPEED™ XLR 35					•
RACING SPEED™ XLR					•
RACING SPEED™ XLR 80					•
RACING SPEED™ 35					•
RACING SPEED™					•

▶ TRACEABILITY



A guarantee of quality

One key factor behind Fulcrum® quality is the fact that each and every product that bears our name and leaves the factory is completely traceable. The traceability program gives advantages all around. First and foremost to our consumers as it proves to them that they have acquired an original product. Secondly it is also a quality control measure for after-sale issues. Should you have any problem whatsoever with your wheel Fulcrum can immediately identify the exact time at which any given product was produced in order to take measures to rectify any problem that may emerge. Fulcrum demands absolute perfection in order to pass it along to cycling consumers.

▶ HOLOGRAM



Fulcrum® 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.

To defend its image and quality, and to protect the end customer, Fulcrum® applies a hologram decal to every wheel in its Racing Speed range to certify that it is an original Fulcrum® product.

Demanding proof that you have purchased an original Fulcrum® 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 Fulcrum'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.



ALUMINIUM WHEELS

RACING ZERO™	23
RACING 1	24
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RACING ZERO™

Available versions:

2-WAY FIT™: 1460 g - CLINCHER: 1435 g - TUBULAR: 1430 g

8% more reactive! The Oversize flange revolutionises the performance of what was already the class-beating aluminium wheel and raises the bar even higher. Greater overall stiffness and more efficient torque transmission. Each pedal stroke is transformed into power and acceleration. Available as the exclusive 2-Way Fit™ version or the classic standard or tubular tyre version, the most competitive wheel in the Fulcrum® range now lets you ride even harder. Racing Zero™ with Shimano Inc. FW body is compatible with 10 and 11 speed sprockets. Racing Zero™ clincher is also available in the "Dark Label" version with black hubs as well as in the new "Red Passion" version with red spokes.



"Red Passion"
Rear wheel



Front wheel (bright version)



Rear wheel (dark version)



2-WAY FIT™

RIM

Three different rim profiles:

clincher, tubular tyre or the exclusive 2-Way Fit™ version.



Ultra-Fit™

Dynamic Balance™

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

Triple milling

Differentiated rim height:

26mm at the front, 30mm at the rear.

SPOKES

Aerodynamic profile in aluminium

Spokes Anti-rotation System™:

keeps the spokes consistently in the position of maximum aerodynamic penetration.



Aluminium nipples

Two-to-One Spoke Ratio™:

on the rear wheel the number of spokes on the drive side is double that of the opposite side. Greater stability of the wheel thanks to the perfect balance between the spoke tensions – greater torsional stiffness and greater reactivity.

HUB

Hub body in carbon:

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



USB™ ceramic bearings:

reduce friction and rolling resistance for a more efficient and smoother ride.

Aluminium axle

Oversize flange: 8% more torsional stiffness.

QUICK RELEASE



RACING 1

Available versions:

2-WAY FIT™: 1485 g - CLINCHER: 1465 g

Two versions for the Racing 1: classic standard clincher version or the exclusive 2-Way Fit that allows you to use either clinchers or tubeless tires. With either version you can count on having a fantastic aluminum wheelset ready for racing. With an oversized flange, beefy spokes, aluminum axle and Dynamic Rim Balance, this wheel is ready for performance at the highest standards. Racing 1 is compatible with Shimano Inc. drivetrains and accepts both 10 and 11 speed cogsets.



2-WAY FIT™

RIM

Two different rim profiles:

clincher, or the exclusive 2-Way Fit™ version.



Ultra-Fit™: rim profile ensures safe fitting of the tubeless tire. (2-Way Fit™ version)

Dynamic Balance™

MoMag™

Triple milling

Differentiated rim height:

26mm at the front, 30mm at the rear.

SPOKES

Aerodynamic profile in aluminium

Aluminium nipples



Spokes Anti-rotation System™

Two-to-One Spoke Ratio™:

on the rear wheel the number of spokes on the drive side is double that of the opposite side. Greater stability of the wheel thanks to the perfect balance between the spoke tensions – greater torsional stiffness and greater reactivity.

HUB

Oversized hub body in aluminium



High grade, top quality steel bearings with cup and cone construction.

Aluminium axle:

reduces the overall weight of the wheel.

Oversize flange:

8% more torsional stiffness. Greater reactivity to each change in pedalling tempo and more efficient power transmission to the wheel.

QUICK RELEASE



Front wheel

RACING 3

Available versions:

2-WAY FIT™: 1565 g - CLINCHER: 1550 g

Lightweight, extreme reliability, oversized flange and aggressive graphics make the Racing 3 a wheelset that is sure to turn heads when you pedal past the competition. Available in two different rim options (traditional clincher or 2-Way Fit™) the Racing 3 is a race wheel ready for the toughest challenges and perfect for all riders. Racing 3 with Shimano Inc. FW body is compatible with 10 and 11 speed cogsets.



2-WAY FIT™

RIM

Two different rim profiles:

clincher or the exclusive 2-Way Fit™ version, which is compatible with both tubeless and standard tyres.



Ultra-Fit™

Dynamic Balance™

MoMag™: allows the external profile of the rim to be free of holes – increases structural resistance.

Milled rim

Differentiated rim height:

26mm at the front, 30mm at the rear.

SPOKES

Double-buttressed steel spokes with aero profile

Spokes anti-rotation System™:

keeps the spokes consistently in the position of maximum aerodynamic penetration.



Two-to-One Spoke Ratio™:

on the rear wheel the number of spokes on the drive side is double that of the opposite side. Greater stability of the wheel thanks to the perfect balance between the spoke tensions – greater torsional stiffness and greater reactivity.

HUB

Oversized hub body in aluminium:

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



High grade, top quality steel bearings with cup and cone construction.

Aluminium axle

Upsize flange:

8% more torsional stiffness. Greater reactivity to each change in pedalling tempo and more efficient power transmission to the wheel.

QUICK RELEASE



Front wheel

RACING QUATTRO

Available versions:

CLINCHER: 1725 g

The Racing Quattro is an extremely versatile wheel at home in almost every situation. Several advanced features give this wheelset a leg up on its competition. However, this lightweight aluminum wheelset is unique as its 35mm profile represents an aerodynamic advantage rarely seen on an aluminum wheelset. Rigid, lightweight, great handling and aerodynamic without being unstable in crosswinds are the qualities that make the Racing Quattro an easy choice to improve your ride. Racing Quattro with Shimano Inc. FW body is compatible with 10 and 11 speed cogsets.



Front wheel



RIM

35mm rim profile:

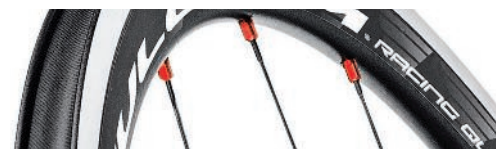
developed to strike the perfect balance between aerodynamic efficiency, handling and lightness. The 35mm rim profile increases torsional and lateral stiffness compared with a conventional profile, for improved high speed stability.



Dynamic Balance™

SPOKES

Double-butted steel spokes with aero profile



Spokes anti-rotation System™:

keeps the spokes consistently in the position of maximum aerodynamic penetration.

Two-to-One™:

on the rear wheel the number of spokes on the drive side is double that of the opposite side.

Aluminium nipples

HUB

Oversized hub body in aluminium



Adjustable bearing system in ultra high quality steel: for reduced friction and maximum performance even after extensive use. Quick and easy to adjust.

Aluminium axle

Oversized flange on the drive side



QUICK RELEASE



RACING 5

Available versions:

CLINCHER: 1645 g

The already best-in-class Racing 5 wheelset goes from high to higher performance thanks to its new design. The same qualities that have made the RACING 5 such a popular wheelset in the past combine with new elements to make an affordable but race ready wheel. The new 20 spoke design in addition to the asymmetric rear rim profile offers notable performance increases in terms of both increased lateral and torsional rigidity as well as increased reactivity. The new design allows for more homogenous spoke tensions and makes for a sturdier, higher performing wheelset that weighs in at over 100 grams less than its previous version.



Front wheel



RIM

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.

New 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.



Spoke Dynamic Balance™

SPOKES

Double-buttressed steel spokes with aero profile:

enable maximum aerodynamic penetration.



HUB

Oversized hubs:

increase wheel stiffness and reactivity.



High grade, top quality steel bearings with cup and cone construction: reduce friction and ensure consistent performance over time.

Oversized flange on the drive side



QUICK RELEASE



RACING 7

Available versions:

CLINCHER: 1750 g

The Racing 7 is an entry level wheel with a race-ready soul. The same Fulcrum® quality and performance as the rest of the line with advanced characteristics such as an oversized flange and Spoke Dynamic Balance™ technology. Fulcrum® engineers have pushed the quality of this wheel even further incorporating an asymmetric rear rim that increases performance in terms of lateral and torsional rigidity as well as reactivity. New technological advancements are added with no compromise in weight savings as the Racing 7 is nearly 90 grams lighter than its predecessor. Improved performance with less weight makes for an excellent choice for your next ride.



Ruota anteriore



RIM

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.

New 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.



Machined braking surfaces:

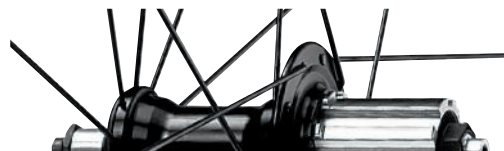
allow for safe, powerful and adaptable braking in all weather conditions.

Rim with oriented drilling of spoke seat

SPOKES

Steel spokes with 2mm cross-section:

provide high levels of tension and stiffness.



HUB

Oversized flange on the drive side: provides greater torsional stiffness, increases reactivity at each change in rhythm of the pedal stroke.



High grade, top quality steel bearings with cup and cone construction:

reduce friction and ensure consistent performance over time.

QUICK RELEASE







ALU/CARBON WHEELS

RED WIND™ XLR	31
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RED WIND™	34

RED WIND™ XLR

Available versions:

CLINCHER: 1590 g

Simply extraordinary. Two-wheel enthusiasts were waiting for the Fulcrum® "aluminium/carbon" wheels and the wait has been rewarded. Indeed the Red Wind™ XLR represent the top-of-the-range wheels in this segment thanks to their outstanding performance: the special aluminium/carbon structure combined with the oversize hub and spokes with the DRSC™ fastening system (Directional Rim-Spoke Coupling) give the wheel incredible responsiveness. Available in the Dark Label with black hubs and Bright Label version.

Red Wind™ XLR with Shimano Inc. FW body is compatible with 10 and 11 speed sprockets.



Front wheel (dark version)



RIM

Integrated aluminum/carbon rim design:

the exclusive coupling system between aluminum rim and carbon profile makes for an extremely solid, rigid and reactive structure that guarantees long term durability and performance.



Exclusive pressing system for the rim in unpainted carbon

Dynamic balancing on the rim

MoMag™

SPOKES

Aerodynamic profile in steel

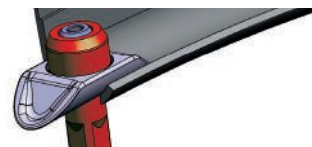
Self-locking oversize aluminium nipples

Spokes Anti-rotation System™

Two-to-One Spoke Ratio™

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.



HUB

Oversized flange on drive side: notable increase in torsional stiffness, thus increasing efficiency and power transfer with each pedal stroke.



Cup and cone bearings

Bearings with CULT™ system

Aluminium axle

QUICK RELEASE



RED WIND™ XLR 80mm



Available versions:

CLINCHER: 1770 g

Long and flat day in a stage race? Granfondo or Century ride on the flats? A quest for the podium in the biggest triathlon of the year? The RED WIND™ XLR 80mm is the perfect choice to give you the wind slicing performance advantage you need to blow by your adversaries. High profile 80mm rim is both aero and stiff and has speed written all over it. The Red Wind™ XLR 80 with Shimano Inc. FW body is compatible with 10 and 11 speed cogsets.



Front wheel (dark version)



RIM

Integrated aluminium/carbon rim structure



Exclusive production process for carbon rim profile:

advanced technique allows for production of profile with no paint, reducing weight and making an extremely smooth surface free of imperfections.

Dynamic balancing on the rim

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

SPOKES

Aerodynamic profile in steel

Self-locking oversize aluminium nipples



Spokes Anti-rotation System™

Two-to-One Spoke Ratio™

DRSC™ (Directional Rim-Spoke Coupling): exclusive rim/spoke coupling system.

HUB

Oversized flange on the drive side



Cup and cone bearings:

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

Bearings with CULT™ system

Aluminium axle

QUICK RELEASE



RED WIND™ XLR 105mm



Available versions:

CLINCHER: 1960 g

The highest rim profile available from Fulcrum® the Red Wind™ XLR 105 is perhaps the fastest alu/carbon addition you can throw under your frame. If you have the legs then the Red Wind™ XLR 105 has the time...the race winning time that is. In your flat stage endeavour or your race against the clock this wheel can either be run as a pair or combined with a lower profile front wheel to make for a more nimble but nevertheless deadly aero combination. Red Wind™ XLR 105mm with SHimano Inc. FW body is compatible with 10 and 11 speed cogsets.



Front wheel (dark version)



RIM

Integrated aluminium/carbon rim structure



Exclusive pressing system for the rim in unpainted carbon

Dynamic balancing on the rim:

thanks to a special operation during the production process, the carbon fiber layup is positioned in such a way as to obtain perfect balancing of the rim even at high speeds.

MoMag™

SPOKES

Aerodynamic profile in steel

Self-locking oversize aluminium nipples



Spokes Anti-rotation System™:

keeps the spokes in the position of maximum aerodynamic penetration.

Two-to-One Spoke Ratio™

DRSC™ (Directional Rim-Spoke Coupling)

HUB

Oversized flange on the drive side



Cup and cone bearings

Bearings with CULT™ system

Aluminium axle:

it reduces the weight of the wheel.

QUICK RELEASE



RED WIND™

Available versions:

CLINCHER: 1755 g

The Red Wind wheelset, with its 50mm rim profile, is perhaps the most versatile in the Fulcrum alu/carbon wheel lineup as it offers a significant aerodynamic advantage on the flats and descents but is light enough to accompany you up even difficult climbs. A performance wheelset that adds an aggressive look to your ride is quite possibly the perfect upgrade for the upcoming season. Red Wind™ with Shimano Inc. FW body is compatible with 10 and 11 speed sprockets.



Front wheel



RIM

Integrated aluminum/carbon rim design:

the exclusive coupling system between aluminum rim and carbon profile makes for an extremely solid, rigid and reactive structure that guarantees long term durability and performance.



Exclusive pressing system for the rim in unpainted carbon

Dynamic balancing on the rim

MoMag™

SPOKES

Aerodynamic profile in steel

Spokes Anti-rotation System™

Two-to-One Spoke Ratio™

DRSC™ (Directional Rim-Spoke Coupling)

Self-locking nipples:

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



HUB

Aluminium hub body



Oversized flange on the drive side

2 different bearings options: it allows to configure the wheel according to your needs:

1. top quality standard bearings
2. USB ceramic bearings

QUICK RELEASE







CARBON WHEELS

RACING SPEED™ DISC	37
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RACING SPEED™ DISC

Available versions:

TUBULAR: 975 g

Whether pedaling against the clock or against other athletes in the bike leg of your triathlon every second counts and every watt saved is of utmost importance. Hard preparation and great condition are only two ingredients for success when race day comes. A technical advantage also plays a pivotal role in being as efficient as possible and the right equipment can often times make the difference between being on the podium or not. The Racing Speed Disc™ represents such a technological advantage with its extremely lightweight construction, efficient and innovative aerodynamics, low rolling resistance and astounding reactivity there is little question as to why professional athletes seek this wheel for their most important competitions.



Rear wheel (left side)



RIM

Full High Modulus Carbon rim for tubular



Braking surface:

newly developed full carbon rim uses carbon braking surface in an effort to add uniform braking performance in addition to saving weight.

Brake pads made especially for carbon wheels

DISC

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



Full carbon disc in a specially developed weave

HUB

Bearings with CULT™ technology



Cup and cone bearings:

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

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

Lightweight and extremely rigid aluminum hub construction

QUICK RELEASE



RACING LIGHT™ XLR

2:1
TWO-TO-ONE
SPOKE RATIO

GOOBI
ADVANCED LIGHTWEIGHT TECHNOLOGY
SERIOUS RADIATORS OF WHEEL PERFORMANCE

Available versions:

CLINCHER: 1345 g - TUBULAR: 1226 g

If a mountain climber could win a 100m sprint then they would call him the Racing Light™ XLR. This wheelset has been universally adored by any athlete wishing to have a performance oriented lightweight climbing wheel but has also been lauded as a great all-conditions wheel thanks to its sleek, stiff and reactive construction. The Racing light™ XLR will take you to the lead at the top of the mountain and keep you in control as you descend. Available in both tubular and clincher versions you can choose which system suits you most. Racing Light™ XLR with SHimano Inc. FW body is compatible with 10 and 11 speed cogsets.



Front wheel



RIM

Two different rim profiles:

Rim with profile for tubular or clincher.



Low profile full carbon

Exclusive pressing system for the rim in unpainted carbon

Dynamic balancing on the rim

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.

SPOKES

Aerodynamic profile in steel

Two-to-One Spoke Ratio™:

on the rear wheel the number of spokes on the drive side is double that of the opposite side.



HUB

Carbon hub body:

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



Oversized flange on the drive side

CULT™ ceramic bearing technology: the highest quality ceramic bearings with exclusive Cronitect steel bearing tract makes for a wheel that is 9 times smoother than traditional bearings.

Cup and cone bearings

Aluminium axle

QUICK RELEASE



RACING SPEED™ XLR 35



Available versions:

TUBULAR: 1235 g

The addition of the new Racing Speed™ XLR 35 completes the Fulcrum® range of high performance road racing wheels. It is perhaps the most versatile wheel in the line-up and offers serious performance advantages in almost every situation. Light enough to climb the steepest gradients, reactive enough to please the strongest sprinter and aerodynamic enough to save precious energy this wheel is the perfect do-it all performance wheel. Working diligently to develop new carbon layup specifically for this profile the engineers were able to produce a lower profile and extremely lightweight rim, whose stiffness rivals that of its higher profile counterparts. Add in the revolutionary new 3Diamant™ surface treatment that ensures exceptional braking performance in both wet and dry conditions and you have a wheelset that is ready for the podium.



Front wheel (dark version)



RIM

High profile for 35mm tubulars

3Diamant™ brake surface treatment:

using advanced machinery and state of the art diamond tipped precision tools, eliminates imperfections. This new process eliminates the "breaking-in" period, improves braking performance under both wet and dry conditions and creates a more linear and smooth overall braking performance.



Full carbon

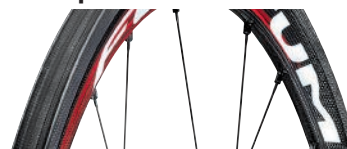
Exclusive pressing system for the rim in unpainted carbon

Dynamic balancing on the rim

Brake pads made especially for carbon wheels

SPOKES

Aerodynamic profile in steel



Front: 16 aero spokes, radially laced in stainless steel with variable cross-section.

Rear: 18 aero spokes in stainless steel with variable cross-section, doubled on the drive side (Two-to-One™).

Two-to-One Spoke Ratio™

HUB

Carbon hub body



Oversized flange on the drive side

Bearings with CULT™ technology

Cup and cone bearings

Aluminium axle

QUICK RELEASE



RACING SPEED™ XLR



Available versions:

TUBULAR: 1324 g

Since its introduction the Racing Speed™ XLR has been a reference point in the professional peloton for performance and reliability. With its 50mm rim it adds an aerodynamic advantage that saves energy and increases average speeds. However, with its full carbon construction and the resulting featherweight build, this aero advantage comes with no weight penalty. Ready for the toughest climbs and also for the strongest sprinters thanks to its excellent power transfer and resistance to lateral and torsional flex this is the perfect wheel not only for the professional rider but also for you in your personal quest for excellence. Racing Speed™ XLR with Shimano Inc. FW body is compatible with 10 and 11 speed cogs.



Front wheel (dark version)



RIM

50mm full carbon rim:

extremely rigid full carbon construction is both lightweight and very reactive.



Full carbon

Exclusive pressing system for the rim in unpainted carbon

Dynamic balancing on the rim

Brake pads made especially for carbon wheels

SPOKES

Aerodynamic profile in steel

Front: 18 aero spokes, radially laced in stainless steel with variable cross-section.

Rear: 21 aero spokes in stainless steel with variable cross-section, doubled on the drive side (Two-to-One™).

Two-to-One Spoke Ratio™



HUB

Carbon hub body:

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



Oversized Flange on drive side:

increases torsional stiffness which gives better power transfer with each pedal stroke.

Bearings with CULT™ technology

Cup and cone bearings

Aluminium axle

QUICK RELEASE



RACING SPEED™ XLR 80

Available versions:

TUBULAR: 1540 g

When the road calls for extreme speed, when the race demands the maximum in aerodynamic penetration you can count on the Racing Speed™ XLR 80 to deliver. The full carbon construction gives a lightweight yet rigid foundation for your ride during the demands of your next competition. Fantastic power transfer, lightweight construction unrivaled smoothness thanks to the CULT™ technology in its bearings there is no better solution for your tough bike leg or race against the stopwatch. Racing Speed™ XLR 80mm with Shimano Inc. FW body is compatible with 10 and 11 speed cogsets.



Front wheel (dark version)



RIM

80mm full carbon rim: extremely rigid full carbon construction is both lightweight and very reactive, while offering the maximum in aerodynamic penetration.



Full carbon: extremely limited weight. Gives the wheel an extremely high level of lateral stiffness and greater reactivity.

Exclusive pressing system for the rim in unpainted carbon

Dynamic balancing on the rim

Brake pads made especially for carbon wheels

SPOKES

Aerodynamic profile in steel



Front: 16 aero spokes, radially laced in stainless steel with variable cross-section.

Rear: 18 aero spokes in stainless steel with variable cross-section, doubled on the drive side (Two-to-One™).

Two-to-One Spoke Ratio™

HUB

Carbon hub body: gives the wheel a high degree of lateral stiffness and reduces weight to the minimum.



Oversized flange on the drive side

CULT™ ceramic bearing technology: the highest quality ceramic bearings with exclusive Cronitect steel bearing tract makes for a wheel that is 9 times smoother than traditional bearings.

Cup and cone bearings

Aluminium axle

QUICK RELEASE



RACING SPEED™ 35



Available versions:

TUBULAR: 1260 g

The Fulcrum® Racing Speed™ 35 is the go-to wheel for the athlete looking for the top in all areas. Extremely versatile, this wheel excels in all situations; extremely lightweight, as reactive if not more so than higher profile wheels, perfect for cross-wind situations and great aerodynamics for both the descents as well as the flats. Not only is it exceptional at increasing speeds climbing, sprinting and descending, this wheelset incorporates the new 3Diamant surface treatment which ensures surefooted braking performance in both wet and dry conditions.



Front wheel

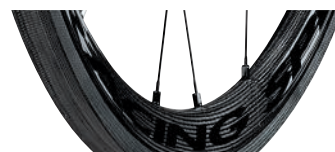


RIM

High profile for 35mm tubulars

3Diamant™ brake surface treatment:

using advanced machinery and state of the art diamond tipped precision tools, eliminates imperfections. This new process eliminates the "breaking-in" period, improves braking performance under both wet and dry conditions and creates a more linear and smooth overall braking performance.



Full carbon

Exclusive pressing system for the rim in unpainted carbon

Dynamic balancing on the rim

Brake pads made especially for carbon wheels

SPOKES

Aerodynamic profile in steel

Spokes Anti-rotation System™



Front: 18 aero spokes, radially laced in stainless steel with variable cross-section.

Rear: 21 aero spokes in stainless steel with variable cross-section, doubled on the drive side (Two-to-One™).

Two-to-One Spoke Ratio™

HUB

Hub in aluminium

Oversized flange on the drive side



Cup and cone bearings

Aluminium axle

QUICK RELEASE



RACING SPEED™



Available versions:

TUBULAR: 1360 g

Performance like a Pro for a wheel available to all cycling enthusiasts. The wheel for tubular tires most beloved by the pros has now become more accessible. The 50mm full carbon rim evolved from the "big brother" XLR and the oversized aluminium hub guarantee the utmost performance at a decidedly "aggressive" price. Racing Speed™ with Shimano Inc. FW body is compatible with 10 and 11 speed sprockets.



Front wheel



RIM

High profile for 50mm tubulars:

enables the maximum aerodynamic penetration, reducing friction. The design of the profile details makes the wheel extremely manageable even in a crosswind.



Full carbon: extremely limited weight. Gives the wheel an extremely high level of lateral stiffness and greater reactivity.

Exclusive pressing system for the rim in unpainted carbon

Dynamic balancing on the rim

Brake pads made especially for carbon wheels

SPOKES

Aerodynamic profile in steel



Spokes Anti-rotation System™: enables the spokes to maintain the best aerodynamic position.

Front: 18 aero spokes, radially laced in stainless steel with variable cross-section.

Rear: 21 aero spokes in stainless steel with variable cross-section, doubled on the drive side (Two-to-One™).

Two-to-One Spoke Ratio™

HUB

Hub in aluminium

Oversized flange on the drive side: provides greater torsional stiffness, increases reactivity at each change in rhythm of the pedal stroke.



Cup and cone bearings

Aluminium axle

QUICK RELEASE





► CYCLOCROSS



Cyclocross is a demanding discipline, hard on both athletes and equipment. Cyclists participating in this rather extreme type of racing need to be free to concentrate on the technical aspects of their race or training, not worried about the durability of their equipment.

It is with this in mind that Fulcrum® presents a line of wheels developed specifically for cyclocross.

The Fulcrum CX wheels offer the same quality and elite performance that even the most demanding professional road riders appreciate while incorporating specific CX construction that withstands the most extreme elements and hard riding associated with cyclocross.

With these new wheels you can concentrate on beating the competition, Fulcrum will take care of the rest.

RACING QUATTRO CX



Available versions:

CLINCHER: 1725 g

Cyclocross demands reliability, lightness and reactivity.

The Racing Quattro CX by Fulcrum has been designed to give that extra edge to athletes competing in extreme conditions. The Quattro does not fear mud, sand or rain, and extreme conditions only highlight its superlative performance. Derived from the Quattro road wheel, the CX with dual hub seals rewards you with superb feel for maximum performance right from the start.

Racing Quattro CX with Shimano Inc. FW body is compatible with 10 and 11 speed sprockets.



Front wheel



RIM

35mm rim:

developed to strike the perfect balance between aerodynamic efficiency, handling and lightness.



Dynamic Balance™

SPOKES

Double-buttressed steel spokes with aero profile



Spokes Anti-rotation System™

Two-to-One Spoke Ratio™:

on the rear wheel the number of spokes on the drive side is double that of the opposite side.

Aluminium nipples

HUB

Oversized hub body in aluminium



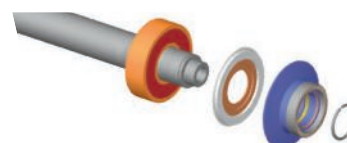
Adjustable bearing system in ultra high quality steel

Aluminium axle

Oversized flange on the drive side

Double gasket:

protects the bearing seats from water and mud, ensures consistent performance over time.



QUICK RELEASE



RACING 5 CX

Available versions:

CLINCHER: 1645 g

The specific cyclocross construction guarantees Fulcrum® quality performance despite the mud and sand frequently found in cross courses as well as a completely new and revolutionary wheel design which provides an even greater performance. The Racing 5 CX has a new 21 spoke design in addition to an asymmetric rear wheel which offer notable performance increases in reactivity as well as lateral and torsional reactivity. A new, higher performing and more resistant cyclocross wheel with a significant weight savings is perhaps the best upgrade available for your cross bike this year.

2014
NEW
MODEL



Front wheel



RIM

New 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.



Spoke Dynamic Balance™

SPOKES

Double-buttaed steel spokes with aero profile



Two-to-One Spoke Ratio™

HUB

Oversized hubs:

increase wheel stiffness and reactivity.



Superior quality steel balls on sealed cylindrical bearings: reduce friction and ensure consistent performance over time.

Oversized flange on the drive side

Double gasket:

protects the ball bearing seats from water and mud, ensures consistent performance over time.



QUICK RELEASE



RACING 7 CX

Available versions:

CLINCHER: 1750 g

The Fulcrum® Racing 7 CX represents a wheel that is accessible to all with the same Fulcrum® quality and performance found in the rest of the line. Using a construction that includes an oversized flange, Spoke Dynamic Balance™ technology as well as a cross specific hub design this wheelset is a step above competitors in its class and ready to take on the rigors of the cyclocross season without any loss of performance. This wheel was further improved by incorporating an asymmetric rear rim that increases performance in terms of lateral and torsional rigidity as well as reactivity all without adding any weight. The new advanced design actually represents an overall weight savings of nearly 90 grams over the previous model.



Front wheel



RIM

New 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.



Machined braking surfaces:

allow for safe, powerful and adaptable braking in all weather conditions.

Rim with oriented drilling of spoke seat

SPOKES

Steel spokes with 2mm cross-section



HUB

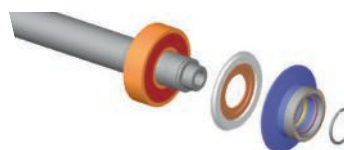
Oversized flange on the drive side: reduce friction and ensure consistent performance over time.



Superior quality steel balls on sealed cylindrical bearings

Double gasket:

protects the bearing seats from water and mud, ensures consistent performance over time.



QUICK RELEASE



29" Off-Road Wheels

Fulcrum® takes pride in providing you the most advanced and up to date solutions for your cycling experience.

In cyclocross the use of disc brakes is now legal and if you happen to have a disc brake compatible cross bike, Fulcrum® has the upgrade for you. With a full line of 29" wheels that are resistant enough for the heavy hits of cross country and endure but with the reactivity and speed of a road wheel, Fulcrum® wheels are your best bet for speeding up your ride. To learn more about Fulcrum 29" wheels have a look at page 70.

RED METAL™ 29 XRP



RED METAL™ 29 XL



RED POWER™ 29 XL



RED POWER™ 29 SL





TECH DATA



Over the course of the previous pages in this catalog you can find a great deal of general information regarding every Fulcrum 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.fulcrumwheels.com

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

	Weight*	nominal and ETRTO width	CULT™/USB™ bearings	Dynamic Balance (R=rim; S=spokes)	
▶ ALUMINIUM WHEELS					
RACING ZERO 2-WAY FIT™ front	625	20,5/15	U	R	
RACING ZERO 2-WAY FIT™ rear	835	20,5/15	U	R	
RACING ZERO CLINCHER front	610	20,5/15	U	R	
RACING ZERO CLINCHER rear	825	20,5/15	U	R	
RACING ZERO TUBULAR front	615	20,5/-	U	R	
RACING ZERO TUBULAR rear	815	20,5/-	U	R	
RACING 1 2-WAY FIT™ front	645	20,5/15	S	R	
RACING 1 2-WAY FIT™ rear	840	20,5/15	S	R	
RACING 1 CLINCHER front	640	20/15	S	R	
RACING 1 CLINCHER rear	825	20/15	S	R	
RACING 3 2-WAY FIT™ front	665	20,5/15	S	R	
RACING 3 2-WAY FIT™ rear	900	20,5/15	S	R	
RACING 3 CLINCHER front	665	20/15	S	R	
RACING 3 CLINCHER rear	885	20/15	S	R	
RACING QUATTRO CLINCHER front	788	20,5/15	S	R	
RACING QUATTRO CLINCHER rear	937	20,5/15	S	R	
RACING 5 CLINCHER front	753	20,5/15	S	no	
RACING 5 CLINCHER rear	892	20,5/15	S	no	

Spoke anti-rotation system	machining	spoke material	number of spokes	type of spokes	HUB material (body/axle)	compatibility
yes	3	aluminium	16 radial	aero with variable section	Carb/Alu/Alu	100mm
yes	3	aluminium	7 left 14 right	aero with variable section	Carb/Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	3	aluminium	16 radial	aero with variable section	Carb/Alu/Alu	100mm
yes	3	aluminium	7 left 14 right	aero with variable section	Carb/Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	3	aluminium	16 radial	aero with variable section	Carb/Alu/Alu	100mm
yes	3	aluminium	7 left 14 right	aero with variable section	Carb/Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	3	aluminium	16 radial	aero with variable section	Alu/Alu	100mm
yes	3	aluminium	7 left 14 right	aero with variable section	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	3	aluminium	16 radial	aero with variable section	Alu/Alu	100mm
yes	3	aluminium	7 left 14 right	aero with variable section	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	1	stainless steel	16 radial	aero with variable section	Alu/Alu	100mm
yes	1	stainless steel	7 left 14 destra	aero with variable section	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	1	stainless steel	16 radial	aero	Alu/Alu	100mm
yes	1	stainless steel	7 left 14 right	aero	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	no	stainless steel	16 radial	aero	Alu/Alu	100mm
yes	no	stainless steel	7 left 14 right	aero	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
no	no	stainless steel	18 radial	aero with variable section	Alu/Alu	100mm
no	no	stainless steel	10 left 10 right	aero with variable section	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11

* Average weight - does not include the quick-release and the rim-tape and it refers to the Campagnolo® FW body version.

*The weight of the rear wheel is increased by 45g in case of wheels with Shimano Inc. e Sram Co. body.

ROAD

	Weight*	nominal and ETRTO width	CULT™/USB™ bearings	Dynamic Balance (R=rim; S=spokes)
--	---------	-------------------------	---------------------	-----------------------------------

RACING 7 CLINCHER front	815	20,5/15	S	no
RACING 7 CLINCHER rear	935	20,5/15	S	no

► ALU/CARBON WHEELS

RED WIND™ XLR CLINCHER front	727	20,5/15	U/C	R
RED WIND™ XLR CLINCHER rear	863	20,5/15	U/C	R
RED WIND™ XLR 80mm CLINCHER front	815	20,5/15	U/C	R
RED WIND™ XLR 80mm CLINCHER rear	955	20,5/15	U/C	R
RED WIND™ XLR 105mm CLINCHER front	910	20,5/15	U/C	R
RED WIND™ XLR 105mm CLINCHER rear	1050	20,5/15	U/C	R
RED WIND™ CLINCHER front	785	20,5/15	S/U	R
RED WIND™ CLINCHER rear	970	20,5/15	S/U	R

► CARBON WHEELS

RACING SPEED™ DISC TUBULAR rear	975	20/-	C	
RACING LIGHT™ XLR CLINCHER front	595	20,5/13	C	R
RACING LIGHT™ XLR CLINCHER rear	750	20,5/13	C	R
RACING LIGHT™ XLR TUBULAR front	546	20/-	C	R
RACING LIGHT™ XLR TUBULAR rear	680	20/-	C	R
RACING SPEED™ XLR 35 TUBULAR front	540	20/-	C	R
RACING SPEED™ XLR 35 TUBULAR rear	695	20/-	C	R

Spoke anti-rotation system	machining	spoke material	number of spokes	type of spokes	HUB material (body/axle)	compatibility
no	no	steel	18 radial	standard 2mm	Alu/Alu	100mm
no	no	steel/ stainless steel	10 left 10 right	standard 2mm	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	no	stainless steel	18 radial	aero with variable section	Alu/Alu	100mm
yes	no	stainless steel	7 left 14 right	aero with variable section	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	no	stainless steel	16 radial	aero with variable section	Alu/Alu	100mm
yes	no	stainless steel	6 left 12 right	aero with variable section	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	no	stainless steel	16 radial	aero with variable section	Alu/Alu	100mm
yes	no	stainless steel	6 left 12 right	aero with variable section	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	no	stainless steel	18 radial	aero with variable section	Alu/St	100mm
yes	no	stainless steel	7 left 14 right	aero with variable section	Alu/St	130mm CAMP 9/10/11 HG 8/9/10/11
					Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
no	no	stainless steel	22 radial	aero with variable section	carb-alu/Alu	100mm
no	no	stainless steel	8 left 16 right	aero with variable section	carb-alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
no	no	stainless steel	22 radial	aero with variable section	carb-alu/Alu	100mm
no	no	stainless steel	8 left 16 right	aero with variable section	carb-alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	no	stainless steel	18 radial	aero with variable section	carb-alu/Alu	100mm
yes	no	stainless steel	7 left 14 right	aero with variable section	carb-alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11

* Average weight - does not include the quick-release and the rim-tape and it refers to the Campagnolo® FW body version.

*The weight of the rear wheel is increased by 45g in case of wheels with Shimano Inc. e Sram Co. body.

ROAD

	Weight*	nominal and ETRTO width	CULT™/USB™ bearings	Dynamic Balance (R=rim; S=spokes)
RACING SPEED™ XLR TUBULAR front	577	20/-	C	R
RACING SPEED™ XLR TUBULAR rear	747	20/-	C	R
RACING SPEED™ XLR 80 TUBULAR front	715	20/-	C	R
RACING SPEED™ XLR 80 TUBULAR rear	825	20/-	C	R
RACING SPEED™ 35 TUBULAR front	550	20/-	S	R
RACING SPEED™ 35 TUBULAR rear	705	20/-	S	R
RACING SPEED™ TUBULAR front	590	20/-	S	R
RACING SPEED™ TUBULAR rear	770	20/-	S	R

CYCLOCROSS

	Weight*	nominal and ETRTO width	STEEL/CULT™/USB™ bearings	Dynamic Balance (R=rim; S=spokes)
RACING QUATTRO CX CLINCHER front	788	20,5/15	S	R
RACING QUATTRO CX CLINCHER rear	937	20,5/15	S	R
RACING 5 CX CLINCHER front	753	20,5/15	S	no
RACING 5 CX CLINCHER rear	892	20,5/15	S	no
RACING 7 CX CLINCHER front	815	20,5/15	S	no
RACING 7 CX CLINCHER rear	935	20,5/15	S	no

Spoke anti-rotation system	machining	spoke material	number of spokes	type of spokes	HUB material (body/axle)	compatibility
no	no	stainless steel	18 radial	aero with variable section	carb-alu/Alu	100mm
no	no	stainless steel	7 left 14 right	aero with variable section	carb-alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
no	no	stainless steel	16 radial	aero with variable section	carb-alu/Alu	100mm
no	no	stainless steel	6 left 12 right	aero with variable section	carb-alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	no	stainless steel	18 radial	aero with variable section	Alu/Alu	100mm
yes	no	stainless steel	7 left 14 right	aero with variable section	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
yes	no	stainless steel	18 radial	aero with variable section	carb-alu/Alu	100mm
yes	no	stainless steel	7 left 14 right	aero with variable section	carb-alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11

Spoke anti-rotation system	machining	spoke material	number of spokes	type of spokes	HUB material (body/axle)	compatibility
yes	no	stainless steel	16 radial	aero	Alu/Alu	100mm
yes	no	stainless steel	7 left 14 right	aero	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
no	no	stainless steel	18 radial	aero with variable section	Alu/Alu	100mm
no	no	stainless steel	10 left 10 right	aero with variable section	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11
no	no	steel	18 radial	standard 2mm	Alu/Alu	100mm
no	no	steel/ stainless steel	10 left 10 right	standard 2mm	Alu/Alu	130mm CAMP 9/10/11 HG 8/9/10/11

* Average weight - does not include the quick-release and the rim-tape and it refers to the Campagnolo® FW body version.

*The weight of the rear wheel is increased by 45g in case of wheels with Shimano Inc. e Sram Co. body.

MAXIMUM OPERATING PRESSURE

		RIM DIMENSION												
TYRE WIDTH			13C		15C		19C		21C		23C		25C	
	mm	in.	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI
	18	0,70	10,0	146										
	20	0,80	9,5	138										
	23	0,90	9,5	138	9,5	138								
	25	1,00	9,0	131	9,0	131								
	28	1,10			8,0	117	8,0	117						
	30	1,20			7,0	103	7,0	103						
	32	1,25			6,7	99	6,7	99						
	35	1,30			6,3	93	6,3	93	6,3	93				
	37	1,40			6,0	88	6,0	88	6,0	88	6,0	88		
	40	1,50					5,7	83	5,7	83	5,7	83		
	42	1,60					5,5	80	5,5	80	5,5	80	5,5	80
	44	1,70					5,2	76	5,2	76	5,2	76	5,2	76
	47	1,80					4,8	71	4,8	71	4,8	71	4,8	71
	50	1,90					4,5	66	4,5	66	4,5	66	4,5	66
	52	2,00					4,3	63	4,3	63	4,3	63	4,3	63
	54	2,10					4,0	59	4,0	59	4,0	59	4,0	59
	57	2,20					3,7	55	3,7	55	3,7	55	3,7	55
	60	2,30					3,4	50	3,4	50	3,4	50	3,4	50
	61	2,40							3,2	47	3,2	47	3,2	47
	63	2,50							3,0	44	3,0	44	3,0	44
	66	2,60							2,8	41	2,8	41	2,8	41
	69	2,70							2,7	39	2,7	39	2,7	39
	71	2,80									2,5	36	2,5	36
	74	2,90									2,4	34	2,4	34
	76	3,00									2,1	30	2,1	30

ADAPTATORS

TYPES OF WHEEL MOUNTING	9x100 Qr	15x100	9/15x 100	20x110	10x135 Qr	12x 135/142	12x150
	FRONT				REAR		
RED CARBON™ XRP (Int)	*				*		
RED METAL™ ZERO XRP (Int/AFS)			*		*		
RED METAL™ 1 XL (Int/AFS)			*	*	*		
RED METAL™ 3 (Int/AFS)			*		*	*	
RED POWER™ XL (Int/AFS)		*	*		*	*	
RED POWER™ SL (Int.)	*	*			*		
RED POWER™ XL 650B (Int.)		*	*		*	*	
RED METAL™ XRP 650B (Int./AFS)			*		*	*	
RED METAL™ 29 XRP (Int/AFS)			*		*	*	
RED METAL™ 29 XL (Int.)			*		*		
RED POWER™ 29XL (Int.)			*		*	*	
RED POWER™ 29SL (Int)	*	*			*		
RED ZONE™ XLR (Int.)		*		*	*	*	
RED HEAT™ (Int.)				*			*
RED FIRE™ (Int.)				*			*

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