OFF-ROAD WHEELS

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When Fulcrum® was born we took on the challenge of building the most durable and reactive wheels in the market. Mission completed! Now our commitment is to spread the technology of Fulcrum® wheels to every off-road World. The 2012 Fulcrum® Off-Road range has been designed for that: a perfect wheel for every terrain.
Team TX Active Bianchi

Team Full-Dynamix
What is the ideal wheel? This is the question that every rider asks before buying a wheel – and Fulcrum® wants to help you find an answer! This is why, in collaboration with professional riders and cycling enthusiasts, we have defined the 3 most important parameters that will enable you to choose the best wheel for your riding style and needs.

What does W.R.S. mean?

Weight
There is little need to describe it. The weight of the wheel is the first question that all riders ask themselves when they buy a wheel.
The weight parameter is extremely important, more than any other bike component.
Indeed the wheel is a rotating mass and as such it follows the laws of physics that determine its acceleration and inertia.
Fulcrum® has always designed its wheels with this aim in mind and, at the same time, combining and adapting it to wheel performance in terms of the stiffness, reactivity and reliability.

Reactivity
How “ready” and fast does the wheel feel every time you change gear? The level of reactivity refers precisely to this concept.
Reactivity depends on the weight of the rim and of the wheel as a whole, on torsional rigidity (i.e. how much the wheel flexes around the hub when the rider pushes on the pedals), on flexional rigidity (i.e. how much the wheel maintains its shape if, because of pedalling, it moves away from its vertical axis) and on inertia.

Smoothness
This will help you understand and compare various wheels degree of smoothness, thanks to, the use of high-performance CULT™ ball bearings or USB™ ball bearings or to other technological solutions applied on the wheel, such as 2-Way Fit™.

Fulcrum® gives you all the technical information, now it’s up to you to choose the perfect wheel for your needs! Your passion, your way of riding the bike and your feel of the bike will help you to make the best choice.

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<th>Weight</th>
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<td>RED METAL ZERO XRP</td>
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<td>RED METAL 1 XL</td>
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<td>RED METAL 3</td>
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<td>RED POWER SL</td>
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<td>RED METAL 29 XL</td>
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<td>RED FIRE</td>
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Imagine the rim and tyre as a single unit composed of two materials. This is what we wanted to achieve conceptually with Ultra-Fit™ Tubeless technology. The rim was developed during the design stage to obtain perfect adherence with the tyre. The consequent elimination of friction makes it possible to improve performance considerably.

Energy dispersion is drastically reduced by the tubeless tyre. The advantages are indisputable even in terms of practicality. Fitting the tyre is facilitated by the form of the rim while two tracks in the rim groove help keep the type perfectly positioned at all times. Ultra-Fit™ Tubeless technology is used in Red Carbon™, Red Fire™, Red Zone™ XLR and Red Zone™ wheels.

Thanks to the rim profile design, ULTRA-FIT™ allows for perfect adherence between the tubeless tire and the rim.

The advantages of ULTRA-FIT™ technologies are:

- easy tire mounting
- maximum safety
- less friction
- less energy dispersion
- improved performance
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: No holes on the rim means that the rim is uniform at every point, free from stress points or zones of weakness. The advantages are immediately clear: greater rim lifetime, greater resistance to fatigue, the possibility to give the spokes greater tension, and greater stiffness which, in terms of performance, mean greater reactivity and acceleration. But that’s not all. The advantages also include extremely quick and simple maintenance and spoke replacement. All to the benefit of cyclists who choose Fulcrum®.
What is Two-to-One™?
A system that is as simple as it is effective, the result of the ingenuity of the Fulcrum® engineers and attentive observation of the results of the tests performed on the wheels on a daily basis.

These tests made it possible to understand that the forces that act on the sides of the wheel, and therefore on the spokes, are extremely different; but what’s more, the differences between the front and rear wheels are also evident and significant. The front wheel, in fact, has to remain stable even during braking of the disk on the left side, and the rear wheel, in addition to making room for the sprocket set, has to compensate for the traction of the force on the chain side.

So how can we keep the wheel perfectly in balance even when it is stressed by braking and acceleration? By doubling the number of spokes and positioning them in such a way that, for each stress on one side of the wheel, there is an equal and opposite force on the other side. This may seem like a simple solution, but especially on harsh and demanding terrains like those of off-road riding, the 2:1 Two-to-One™ system is crucial for ensuring consistent control of your bike even in the most critical situations.

Advantages: The advantages are truly striking. In braking, the front wheel maintains the desired trajectory and does not skid, while the rear wheel, precisely due to this spoking system, reaches a high level of torsional stiffness that enables the optimal transfer of power to the wheel. The 2:1 Two-to-One™ system also makes it possible to reduce the unit load sustained by each spoke, and this minimises mechanical stress, prolonging the life of the wheel.
The hubs designed for Fulcrum® wheels employ a generously dimensioned design for both the central body and for the rotation axis. The diameter of the latter, 20 mm for all the models with disc brakes, guarantees high resistance to transverse and torsional stresses. A contribution is also made to this result by the mechanical architecture of the hub which, in the AFS™ version, is provided with bearings with a double ball-bearing race positioned outside the flange, so that it is aligned with the disc on the respective side. The Red Metal™ Zero and Red Metal™ 1XL models are fitted with precision bearings with cones and cups which make fine adjustment possible and with a double gasket to provide a barrier against the infiltration of dust and mud.
AFS AXLE SYSTEM™

The Axial Fixing System™ is the solution developed by Fulcrum® to fix the disc brake to the hub. The constraint granted by the butt area of the release mechanism, greater than in familiar standard ones, makes it possible to obtain greater structural rigidity and therefore more precise and powerful braking. The availability of the International Standard option ensures full compatibility of Fulcrum® wheels even with the most widespread braking systems that use this assembly plan.

**AFS WHEELS**

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<th>FRONT</th>
<th>REAR</th>
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<tbody>
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<td>QR/HH15</td>
<td>QR</td>
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<tr>
<td>RED METAL 1 XL</td>
<td>QR/HH15</td>
<td>QR</td>
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<td>RED METAL 3</td>
<td>QR/HH15</td>
<td>QR</td>
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<tr>
<td>RED POWER XL</td>
<td>HH15</td>
<td>HH12/135-142</td>
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QR/15 mm THRU-AXLE ADAPTER SYSTEM

The world of “fat wheels” is continually evolving. Mountain bikers are renowned for being keen on trying and experimenting new technical solutions – adapting a bike to the route and to their riding style is normal for off road lovers. And Fulcrum® does not fall behind. On the contrary, it pushes ahead and offers new solutions that don’t force you to make a definitive choice, but leave you the option to change your mind.

The Fulcrum® 2012 range includes the standard modification kit with quick release and 1.5mm thru axle for the front wheel of Red Metal™ Zero, Red Metal™ 1 XL, Red Metal™ 3, Red Power™ XL, Red Metal™ 29 XL, Red Power™ 29 XL wheels and the 2 versions of Red Zone™. A clever solution that will allow you to use the Fulcrum wheels on bikes with front forks with traditional release or thru axle.
SYNTACE X-12 ADAPTER SYSTEM

SYNTACE X-12 ADAPTER SYSTEM
The Syntace X-12 standard, with a 142mm rear O.L.D. and an innovative way of adjusting the wheel to the stay, is the new feature on many branded frames. Fulcrum, which has always kept a close eye on the needs and demands of the market, has found a solution for this: for its 2012 range Fulcrum’s R&D department has designed and developed a special kit that changes 12/135mm thru axle wheels into 12/142mm thru axle wheels thanks to a simple kit included with the wheels. This solution will make your Red Metal™ 1XL, Red Metal™ 3, Red Power™ XL, Red Power™ 29 XL wheels, along with the basic and XLR version of the Red Zone™ wheels, 100% compatible with the German company’s new standard. It is extremely easy to assemble, with no need for any special tools. Just a click and you are ready for a new challenge!
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, in a sport in which the terrain is anything but favourable, as in mountain bike racing.

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 mountain bike 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.
This tubeless wheel is the lightest on the market. But lightness is not everything. Sturdiness, reactivity, reliability and performance are also the salient features of these best-in-class wheels.

Red Carbon™ XRP does not compromise: it was born to win, and keep on winning.
**Weight** 10  
**Reactivity** 10  
**Smoothness** 10  

Weight: 1347 g

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**RIM**

- **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**: enables an extremely limited weight and a smooth surface free from imperfections.
- **Ultra-Fit™**: easy tire mounting - maximum safety - less friction between tyre and rim - less energy dispersion - improved performance.
- **MoMag™**: allows the external profile of the rim to be free of holes – increases structural resistance – makes rim tape unnecessary and reduces the weight of the wheel.

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**SPOKES**

- **Straight-head spokes in steel**: lightweight and greater reactivity.
- **Aluminium nipples**: make it possible to reduce the peripheral mass of the wheel to the minimum, thus increasing its reactivity.
- **2:1 Two-to-One™**: 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. The front wheel spokes have been doubled on the brake side; this allows keeping the wheel steady even when braking.

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**HUBS**

- **Hub body in carbon**: provides a high level of lateral stiffness and reduces the weight to a minimum.
- **FW body in titanium**: reduces the weight of the wheel – increases reactivity.
- **Cup/cone bearing system**: extremely easy ball-bearing adjustment. Reduction of ball-bearing play, increased smoothness, reduction of weight and greater efficiency over time.
- **Aluminium axle**: reduces the overall weight of the wheel.
- **Two versions for the front**: QR or 15mm thru axle: it allows to choose the best solution for your bike.

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**QUICK RELEASE**

- **Steel spine and eccentric, lever with drill lightening and aluminum die**: Eccentric-closure system allows cyclist to modulate the pressure necessary for heightened sensitivity to find the proper closure for the block. Easy to use, with a material resistant to wear and tear, rust, and pressure.
Unrivalled. Red Metal™ Zero XRP is the highest performing aluminium wheel around. Our search for perfection has resulted in this very wheel, which is impressively light: 1470g thanks to the use of proprietary rim manufacturing and highly researched materials such as carbon fiber and titanium. The result is quite remarkable: the XRP accelerates as soon as you put your feet on the pedals, which respond like true stars of the racing track. Put the XRP to the test. The result surpasses all expectations.
**RIM**
- **Triple milled rim in aluminium:** extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.
- **MoMag™:** allows the external profile of the rim to be free of holes – increases structural resistance – makes rim tape unnecessary and reduces the weight of the wheel.

**SPOKES**
- **Straight-head aero spokes in aluminium:** lightweight and greater reactivity.
- **Aluminium nipples:** make it possible to reduce the peripheral mass of the wheel to the minimum, thus increasing its reactivity.
- **2:1 Two-to-One™:** 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. The front wheel spokes have been doubled on the brake side; this allows keeping the wheel steady even when braking.

**HUBS**
- **Hub body in carbon:** provides a high level of lateral stiffness and reduces the weight to a minimum.
- **Oversized flange on the drive side:** provides greater torsional stiffness, increases reactivity at each change in rhythm of the pedal stroke.
- **FW body in titanium:** reduces the weight of the wheel – increases reactivity.
- **Aluminium axle:** reduces the overall weight of the wheel.
- **Set of QR/15mm Thru-Axle front wheel adaptors:** permits use of the same wheel with standard front forks and 15mm link pin.
- **Cup/cone bearing system:** extremely easy ball-bearing adjustment. Reduction of ball-bearing play, increased smoothness, reduction of weight and greater efficiency over time.
- **Industrial bearings with very low friction value and adjustment system:** increased smoothness and high efficiency over time. Extremely easy ball-bearing adjustment.

**QUICK RELEASE**
- **Steel spine and eccentric, lever with drill lightening and aluminum die:** Eccentric-closure system allows cyclist to modulate the pressure necessary for heightened sensitivity to find the proper closure for the block. Easy to use, with a material resistant to wear and tear, rust, and pressure.
The ultimate combination: Performance, lightweight and aesthetics. The Red Metal™ 1 XL stands out above the rest. High performance technology, proprietary materials, such as our round oversize spokes in aluminium along with bold graphics. It is sturdy, suitable for all terrain, while also light for moving fast uphill and over any obstacle: the “XL” is the perfect tubeless wheel for use on any terrain.
<table>
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<th>Feature</th>
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<td><strong>Weight</strong></td>
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<tr>
<td><strong>Reactivity</strong></td>
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<tr>
<td><strong>Smoothness</strong></td>
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</table>

- **RIM**
  - Milled rim: extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.
  - MoMag™: Allows the external profile of the rim to be free of holes – increases structural resistance – makes rim tape unnecessary and reduces the weight of the wheel.

- **SPOKES**
  - Oversized round section straight-pull aluminium spokes: less weight, greater reactivity, aggressive look.
  - Aluminium nipples: make it possible to reduce the peripheral mass of the wheel to the minimum, thus increasing its reactivity.
  - 2:1 Two-to-One™: 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. The front wheel spokes have been doubled on the brake side; this allows keeping the wheel steady even when braking.

- **HUBS**
  - Oversize aluminium hub: permits a higher degree of lateral stiffness and high torque transmission.
  - Oversized flange on the drive side: provides greater torsional stiffness, increases reactivity at each change in rhythm of the pedal stroke.
  - Industrial bearings with very low friction value and adjustment system: increased smoothness and high efficiency over time. Extremely easy ball-bearing adjustment.
  - 20mm aluminium pin: extremely lightweight – very high rigidity. Improves steering precision.
  - Set of QR/15mm Thru-Axle front wheel adaptors: permits use of the same wheel with standard front forks and 15mm link pin.
  - Set of Syntace X-12 135/142mm rear wheel adaptors: the O.L.D. of the 12mm Thru-Axle rear wheel can be increased from 135 to 142 mm.
  - 20mm link pin for front wheels: exceptional rigidity of the front wheel; improved stability at high speeds and when braking.

- **QUICK RELEASE**
  - Steel spine and eccentric, lever with drill lightening and aluminum die. Eccentric-closure system allows cyclist to modulate the pressure necessary for heightened sensitivity to find the proper closure for the block. Easy to use, with a material resistant to wear and tear, rust, and pressure.

Weight: 1650 g
The tubeless wheel for any terrain. Red Metal™ 3 fears nothing. Weighing just 1685g, it can climb anything while the sturdy rim for tubeless covers, the oversize hub and the steel straight-head spokes guarantee easy steering, high manoeuvrability and maximum reliability at all times. Whether racing or training, and whatever the terrain, you can be sure to speed along and enjoy yourself in complete freedom. The Red Metal™ 3 will never let you down.
**RIM**
- **Milled rim**: extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.
- **MoMag™**: Allows the external profile of the rim to be free of holes – increases structural resistance – makes rim tape unnecessary and reduces the weight of the wheel.

**SPOKES**
- **Steel spokes with a variable section**: high spoke tension, maximum stiffness and reactivity.
- **Aluminium nipples**: make it possible to reduce the peripheral mass of the wheel to the minimum, thus increasing its reactivity.
- **2:1 Two-to-One™**: 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. The front wheel spokes have been doubled on the brake side; this allows keeping the wheel steady even when braking.

**HUBS**
- **Oversize aluminium hub**: permits a higher degree of lateral stiffness and high torque transmission.
- **Oversized flange on the drive side**: provides greater torsional stiffness, increases reactivity at each change in rhythm of the pedal stroke.
- **Sealed industrial bearings**: exceptional quality and smoothness; high efficiency over time.
- **20mm aluminium pin**: extremely lightweight – very high rigidity. Improves steering precision.
- **Set of QR/15mm Thru-Axle front wheel adaptors**: permits use of the same wheel with standard front forks and 15mm link pin.
- **Set of Syntace X-12 135/142mm rear wheel adaptors**: the O.L.D. of the 12mm Thru-Axle rear wheel can be increased from 135 to 142 mm.

**QUICK RELEASE**
- **Steel spine and eccentric, aluminum lever and die**: Eccentric-closure system allows cyclist to modulate the pressure necessary for heightened sensitivity to find the proper closure for the block. Easy to use, with a material resistant to wear and tear, rust, and pressure.
**RED POWER™ XL CLINCHER**

*X C · TRAIL · MARATHON*

The family of “clincher” wheels is now called the “Red Power™XL”. And in keeping with Fulcrum® tradition, a change of name means better performance: the new milled rim is of a higher standard and the weight is set at 1740g.

Thanks to the straight-head spokes and oversize hub, the wheel is also extremely reliable and reactive and can be put to full use on any race track or for long cycling trips with friends.
**Thru Axle option**

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<tr>
<td>Reactivity</td>
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<td>Smoothness</td>
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Weight: 1740 g

**RIM**
- **New milled rim:** extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.
- **New graphics:** aggressive graphics dedicated to the world of off-road cycling.

**SPOKES**
- **Straight-head spokes in steel:** high spoke tension, maximum stiffness and reactivity.
- **Nipples with self-locking system:** these maintain the tension of the spokes over time – they do not require maintenance.
- **2:1 Two-to-One™:** 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. The front wheel spokes have been doubled on the brake side; this allows keeping the wheel steady even when braking.

**HUBS**
- **Oversize aluminium hub:** permits a higher degree of lateral stiffness and high torque transmission.
- **Sealed industrial bearings:** exceptional quality and smoothness; high efficiency over time.
- **20mm aluminium pin:** extremely lightweight – very high rigidity. Improves steering precision.
- **Set of QR/15mm Thru-Axle front wheel adaptors:** permits use of the same wheel with standard front forks and 15mm link pin.
- **Set of Syntace X-12 135/142mm rear wheel adaptors:** the O.L.D. of the 12mm Thru-Axle rear wheel can be increased from 135 to 142 mm.

**QUICK RELEASE**
- **Steel spine and eccentric, aluminum lever and die.** Eccentric-closure system allows cyclist to modulate the pressure necessary for heightened sensitivity to find the proper closure for the block. Easy to use, with a material resistant to wear and tear, rust, and pressure.
RED POWER™ SL CLINCHER

XC • TRAIL • MARATHON

Sturdy, resistant and eye-catching. The Red Power™ SL for clinchers is the best choice for daily use and training, without ever compromising on performance. The geometry of the hub and spokes make the Red Power™ SL extremely reactive and efficient, and the new graphics make it all the more aggressive... just like its price.
**RIM**

- **C 19 lightened rim:** can be used on any off-road trail and to overcome clinchers of 28mm/1.10" to 60mm/2.30".

**SPOKES**

- **Straight-head spokes in steel:** high spoke tension, maximum stiffness and reactivity.
- **Nipples with self-locking system:** these maintain the tension of the spokes over time – they do not require maintenance.
- **2:1 Two-to-One™:** 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. The front wheel spokes have been doubled on the brake side; this allows keeping the wheel steady even when braking.

**HUBS**

- **Oversize aluminium hub:** permits a higher degree of lateral stiffness and high torque transmission.
- **Sealed industrial bearings:** exceptional quality and smoothness; high efficiency over time.
- **20mm pin:** extremely lightweight – very high rigidity. Improves steering precision.
- **Set of QR/15mm Thru-Axle front wheel adaptors:** permits use of the same wheel with standard front forks and 15mm link pin.

**QUICK RELEASE**

- **Steel spine and eccentric, aluminum lever and die:** Eccentric-closure system allows cyclist to modulate the pressure necessary for heightened sensitivity to find the proper closure for the block. Easy to use, with a material resistant to wear and tear, rust, and pressure.
The entry level for “fat tire” wheels. The Red Power™ with clincher rim allows all keen bikers to enjoy off-road cycling and to personally test the quality and reliability of Fulcrum® wheels. **Indestructible and ready for any adventure, the Red Power™ allows you to ride uphill and downhill, off-road, and always with a high level of safety.**
**RIM**
- C 19 rim: can be used on any off-road trail and to overcome clinchers of 28mm/1,10” to 60mm/2,30”.

**SPOKES**
- Round-head spokes in steel: easy to maintain.
- Nipples with self-locking system: these maintain the tension of the spokes over time – they do not require maintenance.
- 2:1 Two-to-One™: 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. The front wheel spokes have been doubled on the brake side; this allows keeping the wheel steady even when braking.

**HUBS**
- Oversize aluminium hub: permits a higher degree of lateral stiffness and high torque transmission.
- Sealed industrial bearings: exceptional quality and smoothness; high efficiency over time.
- 20mm axle: exceptional stiffness. Improves steering precision.

**QUICK RELEASE**
- Steel spine and eccentric, aluminum lever and die. Eccentric-closure system allows cyclist to modulate the pressure necessary for heightened sensitivity to find the proper closure for the block. Easy to use, with a material resistant to wear and tear, rust, and pressure.
RED METAL ™ 29XL TUBELESS

XC RACE · XC · TRAIL · MARATHON

The best performing and responsive wheel clincher of the 29” range. The secret of its performance is encapsulated in the skilful mix of the milled and lightened rim, the oversize rim, the straight head aluminium spokes with the exclusive Fulcrum® 2:1 Two-to-One™ spoking solution that make this wheel, despite its wider diameter, the wheel of reference for those who don’t use the 29” just for a ride, but aim straight for the podium. Offered in both the QR or 15mm thru axle version.
**RIM**
- **Milled rim**: extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.
- **MoMag™**: allows the external profile of the rim to be free of holes – increases structural resistance – makes rim tape unnecessary and reduces the weight of the wheel.

**SPOKES**
- **Oversized round section straight-pull aluminium spokes**: less weight, greater reactivity, aggressive look.
- **Aluminium nipples**: make it possible to reduce the peripheral mass of the wheel to the minimum, thus increasing its reactivity.
- **2:1 Two-to-One™**: 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. The front wheel spokes have been doubled on the brake side; this allows keeping the wheel steady even when braking.

**HUBS**
- **Oversize aluminium hub**: permits a higher degree of lateral stiffness and high torque transmission.
- **Oversized flange on the drive side**: provides greater torsional stiffness, increases reactivity at each change in rhythm of the pedal stroke.
- **Industrial bearings with very low friction value and adjustment system**: increased smoothness and high efficiency over time. Extremely easy ball-bearing adjustment.
- **20mm aluminium pin**: extremely lightweight – very high rigidity. Improves steering precision.
- **Set of QR/15mm Thru-Axle front wheel adaptors**: permits use of the same wheel with standard front forks and 15mm link pin.
- **Set of Syntace X-12 135/142mm rear wheel adaptors**: the O.L.D. of the 12mm Thru-Axle rear wheel can be increased from 135 to 142 mm.

**QUICK RELEASE**
- **Steel spine and eccentric, lever with drill lightening and aluminum die**: Eccentric-closure system allows cyclist to modulate the pressure necessary for heightened sensitivity to find the proper closure for the block. Easy to use, with a material resistant to wear and tear, rust, and pressure.
**RED POWER™ 29XL CLINCHER**

**XC · TRAIL · MARATHON**

The 29" family, too, has grown and changed its name. In a continually expanding market such as that of the 29ers, Fulcrum® launches the new Red Power™ for clinchers: completely new and highly efficient, the XL is at the top of its category thanks to the new milled rim, the straight-head spokes and oversize hub that make the wheel highly rigid and reactive and ready for any terrain.
**RIM**
- New milled rim of 29”, extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.
- New graphics: aggressive graphics dedicated to the world of off-road cycling.

**SPOKES**
- Straight-head spokes in steel: high spoke tension, maximum stiffness and reactivity.
- Nipples with self-locking system: these maintain the tension of the spokes over time – they do not require maintenance.
- 2:1 Two-to-One™: 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. The front wheel spokes have been doubled on the brake side; this allows keeping the wheel steady even when braking.

**HUBS**
- Oversize aluminium hub: permits a higher degree of lateral stiffness and high torque transmission.
- Sealed industrial bearings: exceptional quality and smoothness; high efficiency over time.
- 20mm aluminium pin: extremely lightweight – very high rigidity. Improves steering precision.
- Set of QR/15mm Thru-Axle front wheel adaptors: permits use of the same wheel with standard front forks and 15mm link pin.
- Set of Syntace X-12 135/142mm rear wheel adaptors: the O.L.D. of the 12mm Thru-Axle rear wheel can be increased from 135 to 142 mm.

**QUICK RELEASE**
- Steel spine and eccentric, aluminum lever and die. Eccentric-closure system allows cyclist to modulate the pressure necessary for heightened sensitivity to find the proper closure for the block. Easy to use, with a material resistant to wear and tear, rust, and pressure.
RED POWER™ 29 SL CLINCHER

XC • TRAIL • ALL MOUNTAIN

The 29er for those who wish to try out the new world of oversize wheels. Experimental MTB’ers can now follow the new Fulcrum® 29er trend, clearly not wishing to be unprepared. Sturdy and reliable, the version with clincher rim fears no terrain. The graphics of the Red Power™ family, too, make your oversize wheeled bike all the more aggressive.
**Weight**: 6

**Reactivity**: 6.5

**Smoothness**: 7

Weight: 2085 g

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**RIM**
- **29” – C19 rim**: allows to face any kind of all-terrain track and to install 28mm/1,10” to 60mm/2,30” clinchers.

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**SPOKES**
- **Straight-head steel spokes**: easy maintenance.
- **Nipples with self-locking system**: they maintain the spokes well-tensioned over time.

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**HUBS**
- **Oversize aluminium hub**: permits a higher degree of lateral stiffness and high torque transmission.
- **Adjustable sealed industrial bearings**: top quality and smoothness; it maintains performance over time and requires little maintenance.
- **20mm aluminium pin**: extremely lightweight – very high rigidity. Improves steering precision.
- **Two versions for the front QR or 15mm thru axle**: it allows to choose the best solution for your bike. The QR/15mm Thru Axle Kit for the original QR front wheel is also available: it allows to use the same wheel both with standard front forks and with 15mm thru axle.

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**QUICK RELEASE**
- **Steel spine and eccentric, aluminum lever and die**. Eccentric-closure system allows cyclist to modulate the pressure necessary for heightened sensitivity to find the proper closure for the block. Easy to use, with a material resistant to wear and tear, rust, and pressure.
RED ZONE™ XLR  TUBELESS

ALL MOUNTAIN · ENDURO · FREERIDE

It is the most “forward-looking” version in the Fulcrum® range dedicated to Freeride/Enduro. Extremely strong and sturdy, the Red Zone™ XLR is both light and reactive. The Freeride and Enduro are disciplines that put the wheels to real test. The XLR, too, is always ready and able to face any terrain.
<table>
<thead>
<tr>
<th>Weight</th>
<th>8.5</th>
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<tbody>
<tr>
<td>Reactivity</td>
<td>8</td>
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<tr>
<td>Smoothness</td>
<td>9.5</td>
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</tbody>
</table>

Weight: 1705 g

**RIM**
- **C 21 rim for tubeless wheel:** suitable for tubeless wheels of up to 69mm/2.70”. Maximum stability of the wheel, even at high speeds, on any terrain.
- **Ultra-Fit**: easy tire mounting - maximum safety - less friction between tyre and rim - less energy dispersion - improved performance.
- **Milled rim:** extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.
- **MoMag**: Allows the external profile of the rim to be free of holes – increases structural resistance – makes rim tape unnecessary and reduces the weight of the wheel.

**SPOKES**
- **Oversize round section straight-head spokes in aluminium:** lightweight, greater reactivity, aggressive look.
- **Aluminium nipples:** make it possible to reduce the peripheral mass of the wheel to the minimum, thus increasing its reactivity.
- **2:1 Two-to-One**: 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. The front wheel spokes have been doubled on the brake side; this allows keeping the wheel steady even when braking.

**HUBS**
- **Oversize aluminium hub:** permits a higher degree of lateral stiffness and high torque transmission.
- **Oversized flange on the drive side:** provides greater torsional stiffness, increases reactivity at each change in rhythm of the pedal stroke.
- **Industrial bearings with very low friction value and adjustment system:** increased smoothness and high efficiency over time. Extremely easy ball-bearing adjustment.
- **Link pin for front wheels:** exceptional rigidity of the front wheel; improved stability at high speeds and when braking. Choice of version with 15mm or 20mm link pin.
- **Set of Syntace X-12 135/142mm rear wheel adaptors:** the O.L.D. of the 12mm Thru-Axle rear wheel can be increased from 135 to 142 mm.

**QUICK RELEASE**
- **Steel spine and eccentric, lever with drill lightening and aluminum die.** Eccentric-closure system allows cyclist to modulate the pressure necessary for heightened sensitivity to find the proper closure for the block. Easy to use, with a material resistant to wear and tear, rust, and pressure.
Devised for those who wish to enjoy unrestricted use of their mountain bikes. The Red Zone™ can be called an Enduro-Freeride wheel or, if you prefer, a light and reactive wheel for cycling uphill, and a strong and aggressive wheel if you decide to lift it up off the ground.
- **RIM**
  - **C 21 rim for tubeless wheel**: suitable for tubeless wheels of up to 69mm/2.70". Maximum stability of the wheel, even at high speeds, on any terrain.
  - **Ultra-Fit™**: easy tire mounting - maximum safety - less friction between tyre and rim - less energy dispersion - improved performance.
  - **Milled rim**: extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.
  - **MoMag™**: allows the external profile of the rim to be free of holes – increases structural resistance – makes rim tape unnecessary and reduces the weight of the wheel.

- **SPOKES**
  - **Straight-head spokes in steel**: high tension of the spokes, increased reactivity.
  - **2:1 Two-to-One™**: 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. The front wheel spokes have been doubled on the brake side; this allows keeping the wheel steady even when braking.

- **HUBS**
  - **Oversize aluminium hub**: permits a higher degree of lateral stiffness and high torque transmission.
  - **Oversized flange on the drive side**: provides greater torsional stiffness, increases reactivity at each change in rhythm of the pedal stroke.
  - **Industrial bearings with very low friction value and adjustment system**: increased smoothness and high efficiency over time. Extremely easy ball-bearing adjustment.
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  - **Set of Syntace X-12 135/142mm rear wheel adaptors**: the O.L.D. of the 12mm Thru-Axle rear wheel can be increased from 135 to 142 mm.

- **QUICK RELEASE**
  - **Steel spine and eccentric, aluminum lever and die**: Eccentric-closure system allows cyclist to modulate the pressure necessary for heightened sensitivity to find the proper closure for the block. Easy to use, with a material resistant to wear and tear, rust, and pressure.

<table>
<thead>
<tr>
<th>Weight</th>
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<tbody>
<tr>
<td>Reactivity</td>
<td>7.5</td>
</tr>
<tr>
<td>Smoothness</td>
<td>9.5</td>
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</table>

Weight: 1750 g
RED FIRE™

DH · FREERIDE

Pure speed. The Red Fire™ is designed to go strong on any terrain; and to win. Ask the Pro Riders: the Red Fire is absolutely stable on long straight terrains and fast and offers precise cornering... it is also indestructible. Prepare to go: the Red Fire™ is ready for any race.
**Weight** 7.5
**Reactivity** 7.5
**Smoothness** 9.5

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**RIM**

- **C 23 rim for tubeless wheel:** suitable for tubeless wheels of up to 76mm/3.00". Maximum stability of the wheel, even at high speeds, on any terrain.

- **Ultra-Fit™:**
  - easy tire mounting - maximum safety - less friction between tyre and rim - less energy dispersion - improved performance.

- **Milled rim:**
  - extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.

- **Rim with asymmetrical drilling:**
  - permits better balancing of the spokes, leaving sufficient room for the disc brake and sprocket set. Improves the dynamism of the wheel at high speeds and when braking.

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

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**SPOKES**

- **Steel spokes with a variable section:**
  - high tension of the spokes and increased reactivity.

- **Aluminium nipples with self-lock system:**
  - these minimize the peripheral mass of the wheel, increasing reactivity. They do not require maintenance, thanks to the self-lock system.

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**HUBS**

- **Industrial bearings with very low friction value and adjustment system:**
  - increased smoothness and high efficiency over time. Extremely easy ball-bearing adjustment.

- **20mm/110mm link pin for front wheels:**
  - exceptional rigidity of the front wheel; improved stability at high speeds and when braking.

- **12mm link pin for rear wheels and 150mm O.L.D.:**
  - exceptional rigidity of the front wheel; improved stability at high speeds and when braking.
Pure energy. The result of close collaboration between Fulcrum® engineers and highly demanding riders, the Red Heat™ is the best choice for breaking into the world of DH/FR. Strong and sturdy, it is ready to face any obstacle and jump in complete safety. The weight stands at 2202g, exceptional in this category. Designed for use with the classic clincher and tube, the Red Heat™ has a 25mm rim that permits better hold and grip on the ground.
**RIM**
- **C 25 rim for clinchers:** suitable for clinchers of up to 76mm/3,00". Maximum stability of the wheel, even at high speeds, on any terrain.

**SPOKES**
- **Steel spokes with a variable section:**
  high tension of the spokes and increased reactivity.

- **Nipples with self-lock system:**
  they do not require maintenance, thanks to the self-lock system.

**HUBS**
- **Industrial bearings with very low friction value and adjustment system:**
  increased smoothness and high efficiency over time. Extremely easy ball-bearing adjustment.

- **20mm/110mm link pin for front wheels:**
  exceptional rigidity of the front wheel; improved stability at high speeds and when braking.

- **12mm link pin for rear wheels and 150mm O.L.D.:**
  exceptional rigidity of the front wheel; improved stability at high speeds and when braking.
<table>
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<tr>
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*average weight: does not include the quick-release and it refers to the lightest configuration.
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**Red Power**

- RED POWER™ XL front
- Disc Brake
- 7'90
- black
- no
- yes
- 19
- stainless steel
- 16 left
- 8 right
- aero
- with variable section
- Alu/ Alu/-
- Alu/-
- Alu/-
- Alu/ Alu/-
- Alu/ Steel
- 100mm
- 135mm/142mm
- - QR (kit HH15)
- ISO INTL 6 Bolts

**Red Power 29**

- RED POWER™ SL front
- Disc Brake
- RED POWER™ SL rear
- Disc Brake
- 870
- black
- yes
- yes
- 19
- stainless steel
- 16 left
- 8 right
- aero
- with variable section
- Alu/ Alu/-
- Alu/ Alu/ Steel
- 100mm
- 135mm
- - QR (kit HH15)
- ISO INTL 6 Bolts

**Red Metal 29 XL**

- RED METAL™ SL front
- Disc Brake
- RED METAL™ SL rear
- Disc Brake
- 780
- black
- no
- yes
- yes
- 19
- stainless steel
- 8 left
- 16 right
- aero
- with variable section
- Alu/ Alu/-
- Alu/ Alu/-
- Alu/ Steel
- 100mm
- 135mm
- - QR (kit HH15)
- ISO INTL 6 Bolts

**Red Power 29 XL**

- RED POWER™ SL front
- Disc Brake
- RED POWER™ SL rear
- Disc Brake
- 878
- red
- no
- yes
- yes
- 19
- stainless steel
- 16 left
- 8 right
- aero
- with variable section
- Alu/ Alu/-
- Alu/ Alu/-
- Alu/ Alu/-
- Alu/ Alu/-
- Steel
- 100mm
- 135mm
- - QR (kit HH15)
- ISO INTL 6 Bolts
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<td>of spokes</td>
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<tr>
<td>type of spokes</td>
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<td>O.L.D.</td>
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<td>braking system compatibility</td>
<td>ISO INTL 6 Bolts</td>
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* average weight: does not include the quick-release and it refers to the lightest configuration.
### Maximum Operating Pressure

#### Off-Road Wheels

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<td>PSI</td>
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#### Road Wheels

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