



**FULCRUM®**

ENG

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

**OFFROAD 2012**



# OFFROAD 2012



## **OFF-ROAD WHEELS**

- 08 Wheel Technology
- 20 RED CARBON™ XRP
- 22 RED METAL™ ZERO XRP
- 24 RED METAL™ 1XL
- 26 RED METAL™ 3
- 28 RED POWER™ XL
- 30 RED POWER™ SL
- 32 RED POWER™
- 34 RED METAL™ 29" XL
- 36 RED POWER™ 29" XL
- 38 RED POWER™ 29" SL
  
- 42 RED ZONE™ XLR
- 44 RED ZONE™
  
- 48 RED FIRE™
- 50 RED HEAT™
  
- 52 Technical data
- 56 Sales Network
- 57 Service Center





**DOWNHILL**



**X-COUNTRY**



**FREERIDE**

**MARATHON**





# ENDURO

# TRAIL



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.

# ALL MOUNTAIN







**Team TX Active Bianchi**



**Team Full-Dynamix**





**Team Ready2ride**



**Team Commencal**





## 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.

<b>W</b>	<b>Weight</b>	<b>10</b>
<b>R</b>	<b>Reactivity</b>	<b>10</b>
<b>S</b>	<b>Smoothness</b>	<b>10</b>

## 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.**

WRS			
	Weight	Reactivity	Smoothness
RED CARBON XRP	10	10	10
RED METAL ZERO XRP	9	9	9,5
RED METAL 1 XL	8	8,5	9
RED METAL 3	7,5	8	7,5
RED POWER XL	7	7	7
RED POWER SL	6,5	6,5	7
RED POWER	6	6	7
RED METAL 29 XL	8	8,5	9
RED POWER 29 XL	7	7	7
RED POWER 29 SL	6	6,5	7
RED ZONE XLR	8,5	8	9,5
RED ZONE	8	7,5	9,5
RED FIRE	7,5	7,5	9,5
RED HEAT	7	6,5	8



## ULTRA-FIT™

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



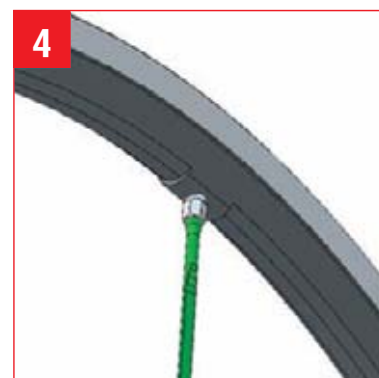
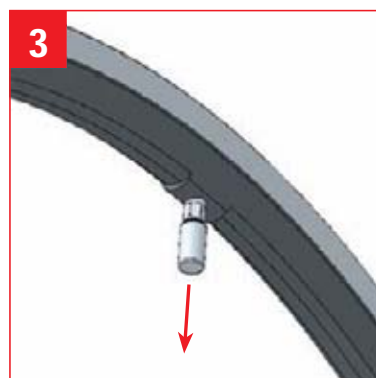
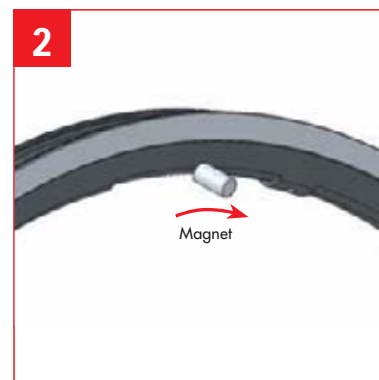
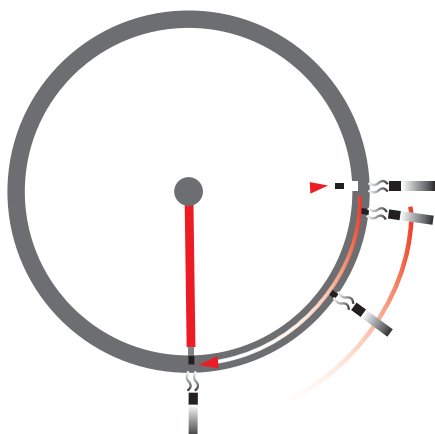
# MOMAG™

## 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®.





## 2:1 TWO-TO-ONE™

**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.

**FULCRUM**  
**2:1**  
**TWO-TO-ONE**  
**SPOKE RATIO**



# OVERSIZE AXLE™

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™

#### AFS WHEELS

	FRONT	REAR
RED METAL ZERO XRP	QR/HH15	QR
RED METAL 1 XL	QR/HH15	QR
RED METAL 3	QR/HH15	QR
RED POWER XL	QR/HH15	QR
	HH15	HH12/135-142

# QR/15 mm THRU-AXLE ADAPTER SYSTEM

## QR/15 mm THRU-AXLE ADAPTER SYSTEM

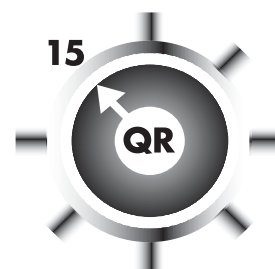
The world of "fat wheels" is continually evolving.

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 15mm 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!





# 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, 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.



## QUICK RELEASE

		
RED CARBON XRP	•	
RED METAL ZERO XRP	•	
RED METAL 1 XL	•	
RED METAL 3		•
RED METAL 29 XL	•	
RED POWER XL		•
RED POWER SL		•
RED POWER		•
RED POWER 29 XL		•
RED POWER 29 SL		•
RED ZONE XLR	•	
RED ZONE		•



# WHEELS TECHNOLOGIES





# X-COUNTRY TRAIL MARATHON ALL MOUNTAIN









# RED CARBON™ XRP

TUBELESS



## XC RACE

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.**



<b>W</b>	<b>Weight</b>	<b>10</b>
<b>R</b>	<b>Reactivity</b>	<b>10</b>
<b>S</b>	<b>Smoothness</b>	<b>10</b>

Weight: 1347 g



## 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.

## 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.

## 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.

## 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 METAL™ ZERO XRP TUBELESS

## XC RACE • XC • TRAIL • MARATHON

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.**



Front wheel Black version

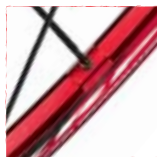
<b>W</b>	<b>Weight</b>	<b>9</b>
<b>R</b>	<b>Reactivity</b>	<b>9</b>
<b>S</b>	<b>Smoothness</b>	<b>9.5</b>

Weight: 1470 g



## 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.



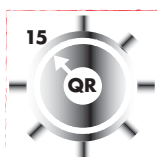
## SPOKES

- **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.





# RED METAL™ 1 XL TUBELESS

**XC • TRAIL • MARATHON • ALL MOUNTAIN • ENDURO**

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.**



<b>W</b>	<b>Weight</b>	<b>8</b>
<b>R</b>	<b>Reactivity</b>	<b>8.5</b>
<b>S</b>	<b>Smoothness</b>	<b>9</b>

Weight: 1650 g



## 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.



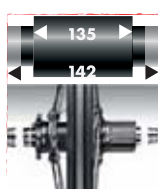
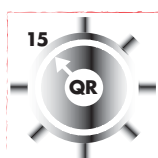
## SPOKES

- **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

- **Overdose 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.

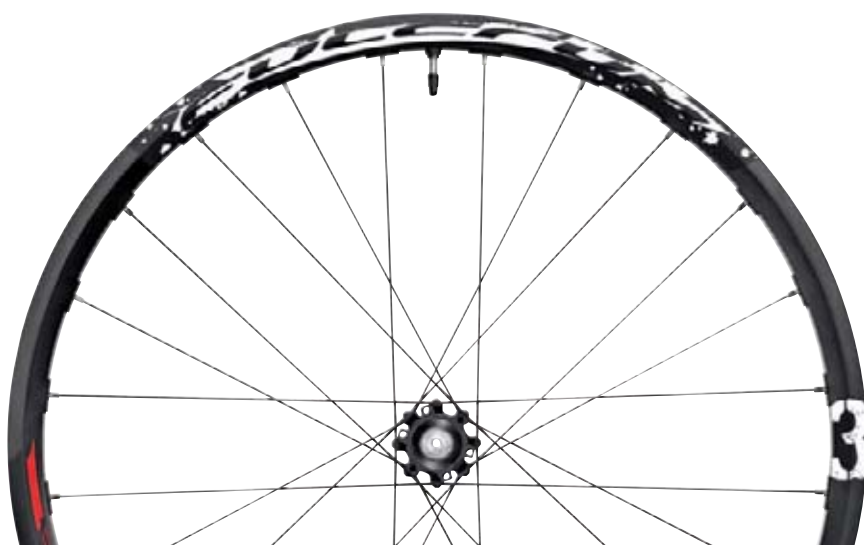




# RED METAL™ 3 TUBELESS

## XC • TRAIL • MARATHON • ALL MOUNTAIN • ENDURO

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.**



<b>W</b>	<b>Weight</b>	<b>7.5</b>
<b>R</b>	<b>Reactivity</b>	<b>8</b>
<b>S</b>	<b>Smoothness</b>	<b>7.5</b>

Weight: 1685 g

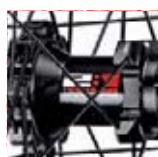


## RIM



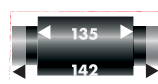
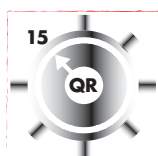
- **Milled rim:** extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.
- **MoMag™:** Allows the external profile of the rim to be free of holes – increases structural resistance – makes rim tape unnecessary and reduces the weight of the wheel.

## 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.

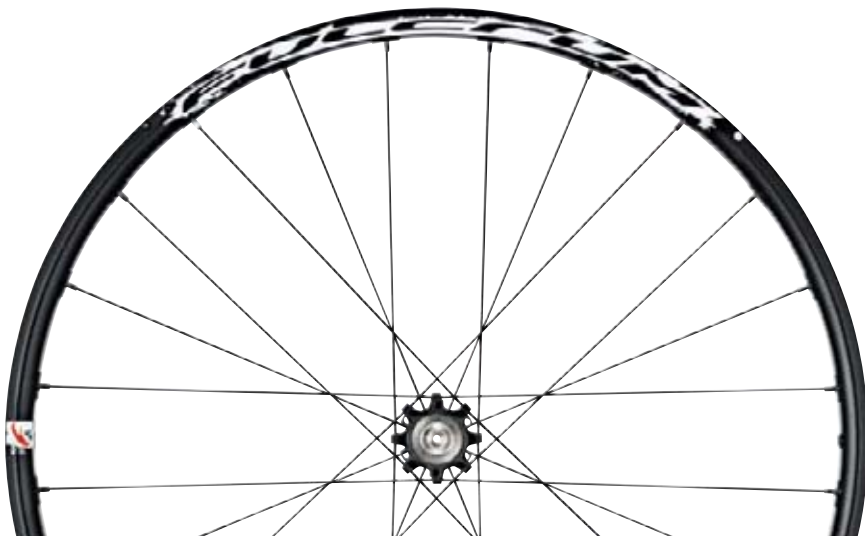


# RED POWER™ XL CLINCHER

## XC • TRAIL • MARATHON

The family of "clincher" wheels is now called the "Red Power™". 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.**



<b>W</b>	<b>Weight</b>	<b>7</b>
<b>R</b>	<b>Reactivity</b>	<b>7</b>
<b>S</b>	<b>Smoothness</b>	<b>7</b>

Weight: 1740 g

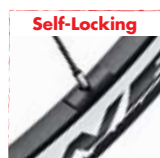


## RIM



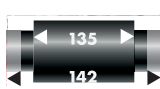
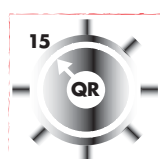
- **New milled rim:**  
extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.
- **New graphics:**  
aggressive graphics dedicated to the world of off-road cycling.

## 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, aluminium 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.**



<b>W</b>	<b>Weight</b>	<b>6.5</b>
<b>R</b>	<b>Reactivity</b>	<b>6.5</b>
<b>S</b>	<b>Smoothness</b>	<b>7</b>

Weight: 1959 g



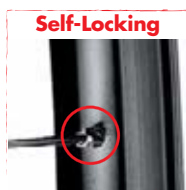
## RIM

- **C 19 lightened rim:**  
can be used on any off-road trail and to overcome clinchers of 28mm/1,10" to 60mm/2,30".



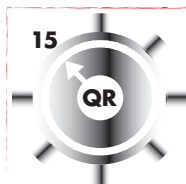
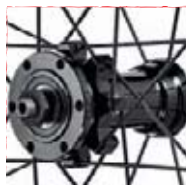
## SPOKES

- **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.



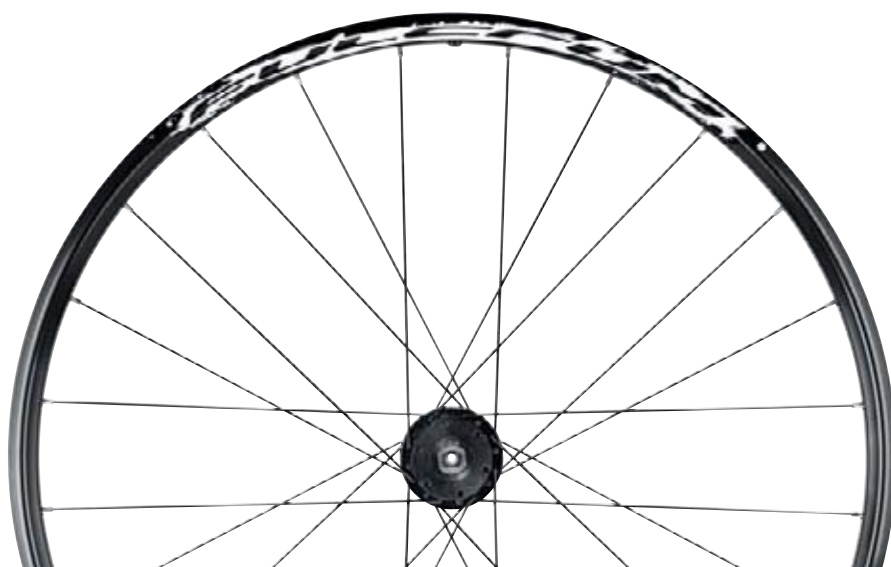


# RED POWER™

CLINCHER

## XC • TRAIL • MARATHON

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.**



<b>W</b>	<b>Weight</b>	<b>6</b>
<b>R</b>	<b>Reactivity</b>	<b>6</b>
<b>S</b>	<b>Smoothness</b>	<b>7</b>

Weight: 1959 g



## 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:

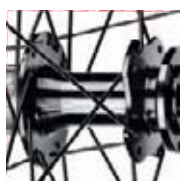
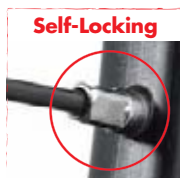
easy to maintain.

### - 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:

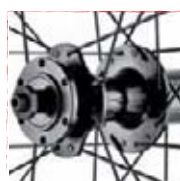
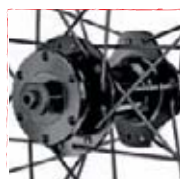
permits a higher degree of lateral stiffness and high torque transmission.

### - 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.



<b>W</b>	<b>Weight</b>	<b>8</b>
<b>R</b>	<b>Reactivity</b>	<b>8.5</b>
<b>S</b>	<b>Smoothness</b>	<b>9</b>

Weight: 1750 g



## 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.



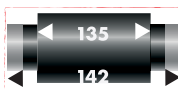
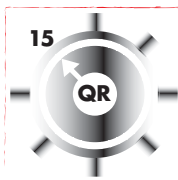
## SPOKES

- **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

- **Overdose 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.

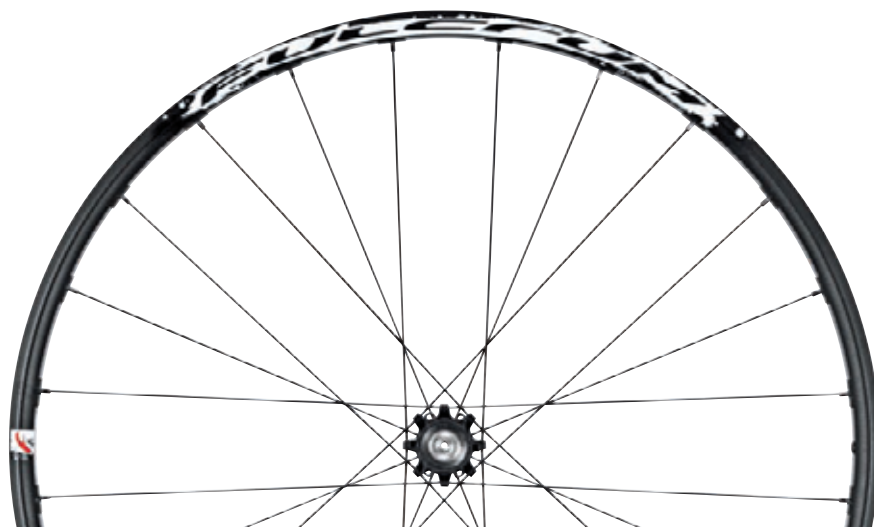




# RED POWER™ 29XL CLINCHER

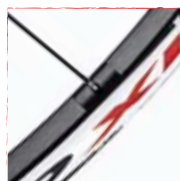
## XC • TRAIL • MARATHON

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.



<b>W</b>	<b>Weight</b>	<b>7</b>
<b>R</b>	<b>Reactivity</b>	<b>7</b>
<b>S</b>	<b>Smoothness</b>	<b>7</b>

Weight: 1915 g

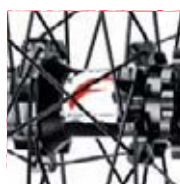
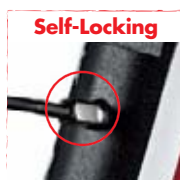


## RIM

- **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.

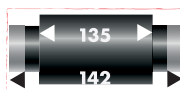
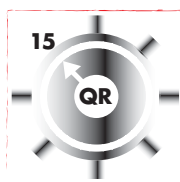
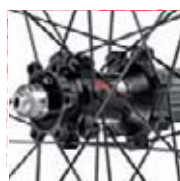
## SPOKES

- **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.**



<b>W</b>	<b>Weight</b>	<b>6</b>
<b>R</b>	<b>Reactivity</b>	<b>6.5</b>
<b>S</b>	<b>Smoothness</b>	<b>7</b>

Weight: 2085 g

## RIM

### - 29" – C19 rim:

allows to face any kind of all-terrain track and to install 28mm/1,10" to 60mm/2,30" clinchers.



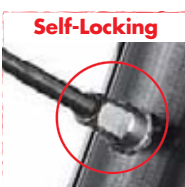
## SPOKES

### - Straight-head steel spokes:

easy maintenance.

### - Nipples with self-locking system:

they maintain the spokes well-tensioned over time.



## HUBS

### - Oversize aluminium hub:

permits a higher degree of lateral stiffness and high torque transmission.

### - Adjustable sealed industrial bearings:

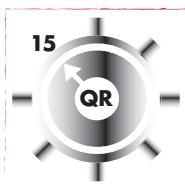
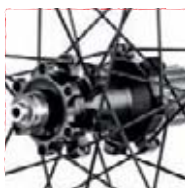
top quality and smoothness; it maintains performance over time and requires little maintenance.

### - 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.



## 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.





# ALL MOUNTAIN FREERIDE

## ENDURO









# 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.**



<b>W</b>	<b>Weight</b>	<b>8.5</b>
<b>R</b>	<b>Reactivity</b>	<b>8</b>
<b>S</b>	<b>Smoothness</b>	<b>9.5</b>

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

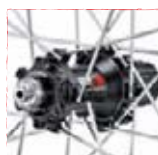
- **Oversize round section straight-head spokes in aluminium:** lightweight, greater reactivity, aggressive look.
- **Aluminium nipples:** make it possible to reduce the peripheral mass of the wheel to the minimum, thus increasing its reactivity.
- **2:1 Two-to-One™:** on the rear wheel the number of 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.





# RED ZONE™

TUBELESS



**ALL MOUNTAIN • ENDURO • FREERIDE**

**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.



<b>W</b>	<b>Weight</b>	<b>8</b>
<b>R</b>	<b>Reactivity</b>	<b>7.5</b>
<b>S</b>	<b>Smoothness</b>	<b>9.5</b>

Weight: 1750 g



## RIM

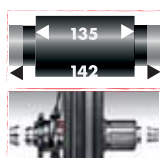
- **C 21 rim for tubeless wheel:** suitable for tubeless wheels of up to 69mm/2.70". Maximum stability of the wheel, even at high speeds, on any terrain.
- **Ultra-Fit™:** easy tire mounting - maximum safety - less friction between tyre and rim - less energy dispersion - improved performance.
- **Milled 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



- **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.
- **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, 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.



# DOWNHILL FREERIDE









# RED FIRE™

TUBELESS



## 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.



<b>W</b>	<b>Weight</b>	<b>7.5</b>
<b>R</b>	<b>Reactivity</b>	<b>7.5</b>
<b>S</b>	<b>Smoothness</b>	<b>9.5</b>

Weight: 2215 g

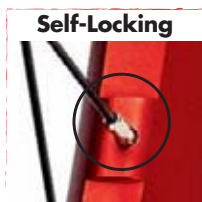


## RIM

- **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.

## 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.



## 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.



# RED HEAT™

CLINCHER

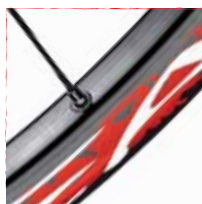
## DH • FREERIDE

**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.



<b>W</b>	<b>Weight</b>	<b>7</b>
<b>R</b>	<b>Reactivity</b>	<b>6.5</b>
<b>S</b>	<b>Smoothness</b>	<b>8</b>

Weight: 2202 g



## 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.







	<b>Red Carbon XRP</b>		<b>Red Metal Zero XRP</b>		<b>Red Metal 1 XL</b>		<b>Red Metal 3</b>	
	RED CARBON™ XRP front Disc Brake	RED CARBON™ XRP rear Disc Brake	RED METAL™ ZERO XRP front Disc Brake	RED METAL™ ZERO XRP rear Disc Brake	RED METAL™ 1 XL front Disc Brake	RED METAL™ 1 XL rear Disc Brake	RED METAL™ 3 front Disc Brake	RED METAL™ 3 rear Disc Brake
weight*	597	750	670	800	735	915	745	940
finish	carbon	carbon	black red&blk	black red&blk	black	black	black	black
welded rim joint	no	no	yes	yes	yes	yes	yes	yes
RIM TAPE	not needed	not needed	not needed	not needed	not needed	not needed	not needed	not needed
machining	no	no	yes	yes	yes	yes	yes	yes
nominal width	19	19	19	19	19	19	19	19
spoke material	stainless steel	stainless steel	aluminum	aluminum	aluminum	aluminum	stainless steel	stainless steel
number of spokes	10 left 10 right	10 left 10 right	14 left 7 right	8 left 16 right	16 left 8 right	8 left 16 right	16 left 8 right	8 left 16 right
type of spokes	ultra aero with variable section	ultra aero with variable section	aero with variable section	aero with variable section	oversize Ø 2,8mm	oversize Ø 2,8mm	aero with variable section	aero with variable section
hub material (body/axle/ Fwbody)	Alu/ Carbon/-	Alu/ Carbon/ Titanium	Alu/ Carbon/-	Alu/ Carbon/ Titanium	Alu/ Alu/-	Alu/ Alu/ Steel	Alu/ Alu/-	Alu/ Alu/Steel
O.L.D.	100mm	135mm	100mm	135mm	100mm	135mm/ 142mm	100mm	135mm/ 142mm
Axle	- QR - HH15	- QR	- QR (kit HH15)	- QR	- QR (kit HH15) - HH20	- QR - HH12 (kit Syntace X-12)	- QR (kit HH15)	- QR - HH12 (kit Syntace X-12)
braking system compatibility	ISO INTL 6 Bolts		ISO INTL 6 Bolts AFS™		ISO INTL 6 Bolts AFS™		ISO INTL 6 Bolts AFS™	

\* average weight: does not include the quick-release and it refers to the lightest configuration.

## Red Power

## Red Metal 29 XL

## Red Power 29

RED POWER™ <b>XL</b> front Disc Brake	RED POWER™ <b>XL</b> rear Disc Brake	RED POWER™ <b>SL</b> front Disc Brake	RED POWER™ <b>SL</b> rear Disc Brake	RED POWER™ front Disc Brake	RED POWER™ rear Disc Brake	RED METAL™ <b>29 XL</b> front Disc Brake	RED METAL™ <b>29 XL</b> rear Disc Brake	RED POWER™ <b>29 XL</b> front Disc Brake	RED POWER™ <b>29 XL</b> front Disc Brake	RED POWER™ <b>29 SL</b> front Disc Brake	RED POWER™ <b>29 SL</b> rear Disc Brake
790	950	876	1083	876	1083	780	970	875	1040	925	1160
black	black	black	black	black	black	black	black	black	black	black	black
no	no	no	no	no	no	yes	yes	no	no	no	no
yes	yes	yes	yes	yes	yes	not needed	not needed	yes	yes	yes	yes
yes	yes	no	no	no	no	yes	yes	yes	yes	no	no
19	19	19	19	19	19	19	19	19	19	19	19
stainless steel	stainless steel	stainless steel	stainless steel	stainless steel	stainless steel	aluminum	aluminum	stainless steel	stainless steel	stainless steel	stainless steel
16 left 8 right	8 left 16 right	16 left 8 right	8 left 16 right	16 left 8 right	8 left 16 right	14 left 7 right	8 left 16 right	16 left 18 right	14 left 14 right	14 left 14 right	14 left 14 right
aero with variable section	aero with variable section	standard 2mm	standard 2mm	standard 2mm	standard 2mm	oversize Ø 2,8mm	oversize Ø 2,8mm	aero with variable section	aero with variable section	aero with variable section	aero with variable section
Alu/ Alu/-	Alu/ Alu/ Steel	Alu/ Alu/-	Alu/ Alu/ Steel	Alu/ Alu/-	Alu/ Alu/ Steel	Alu/ Alu/-	Alu/ Alu/ Steel	Alu/ Alu/-	Alu/ Alu/ Steel	Alu/ Alu/-	Alu/ Alu/ Steel
100mm	135mm/ 142mm	100mm	135mm	100mm	135mm	100mm	135mm	100mm	135mm/ 142mm	100mm	135mm
- QR (kit HH15)	- QR - HH12 (kit Syntace X-12)	QR HH15	QR	QR HH15	QR	- QR (kit HH15)	QR	- QR (kit HH15)	- QR - HH12 (kit Syntace X-12)	QR HH15	QR
ISO INTL 6 Bolts AFS™		ISO INTL 6 Bolts		ISO INTL 6 Bolts		ISO INTL 6 Bolts		ISO INTL 6 Bolts		ISO INTL 6 Bolts	





## Red Zone XLR

## Red Zone

	RED ZONE™ XLR front 15 THRU-AXLE Disc Brake	RED ZONE™ XLR front 20 THRU-AXLE Disc Brake	RED ZONE™ XLR rear Disc Brake	RED ZONE™ XLR rear 12 THRU-AXLE (kit Syntax X-12) Disc Brake	RED ZONE™ front 15 THRU-AXLE Disc Brake	RED ZONE™ front 20 THRU-AXLE Disc Brake	RED ZONE™ rear Disc Brake	RED ZONE™ rear 12 THRU-AXLE (kit Syntax X-12) Disc Brake
weight*	770	785	950	935	785	800	980	965
finish	bl/sil	bl/sil	bl/sil	bl/sil	black	black	black	black
welded rim joint	yes	yes	yes	yes	yes	yes	yes	yes
RIM TAPE	not needed	not needed	not needed	not needed	not needed	not needed	not needed	not needed
machining	yes	yes	yes	yes	yes	yes	yes	yes
nominal width	21	21	21	21	21	21	21	21
spoke material	aluminum	aluminum	aluminum	aluminum	stainless steel	stainless steel	stainless steel	stainless steel
number of spokes	16 left 8 right	16 left 8 right	8 left 16 right	8 left 16 right	16 left 8 right	16 left 8 right	8 left 16 right	8 left 16 right
type of spokes	oversize Ø 2,8mm	oversize Ø 2,8mm	oversize Ø 2,8mm	oversize Ø 2,8mm	aero with variable section	aero with variable section	aero with variable section	aero with variable section
hub material (body/axle/ Fwbody)	Alu/ Alu/-	Alu/ Alu/-	Alu/ Alu/ Steel	Alu/ Alu/ Steel	Alu/ Alu/-	Alu/ Alu/-	Alu/ Alu/ Steel	Alu/ Alu/ Steel
O.L.D.	100mm	110mm	135mm	135mm	100mm	110mm	135mm	135mm
braking system compatibility	ISO INTL 6 Bolts		ISO INTL 6 Bolts		ISO INTL 6 Bolts		ISO INTL 6 Bolts	

\* average weight: does not include the quick-release and it refers to the lightest configuration.

**Red Fire**

**Red Heat**

**MAXIMUM OPERATING PRESSURE  
OFF-ROAD WHEELS**

			RIM DIMENSION							
			19C		21C		23C		25C	
TYRE WIDTH	mm	in.	BAR	PSI	BAR	PSI	BAR	PSI	BAR	PSI
	28	1,10	8,0	117						
	30	1,20	7,0	103						
	32	1,25	6,7	99						
	35	1,30	6,3	93	6,3	93				
	37	1,40	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

**MAXIMUM OPERATING PRESSURE  
ROAD WHEELS**

			RIM DIMENSION			
			13C		15C	
TYRE WIDTH	mm	in.	BAR	PSI	BAR	PSI
	10	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
	30	1,20			7,0	103
	32	1,25			6,7	99
	35	1,30			6,3	93
	37	1,40			6,0	88



## Headquarters

### FULCRUM WHEELS S.R.L.

Via E.Fermi 13  
36057 Arcugnano (VI)  
Tel. +39 0444 289306  
Fax +39 0444 962844  
info@fulcrumwheels.com  
technical@fulcrumwheels.com

### BRANCH OFFICES

#### FRANCE

FULCRUM FRANCE  
58640 Varennes Vauzelles  
Tel. +33 386 577867  
infos@fulcrumwheels.fr

#### FULCRUM CENTRAL EUROPE

BERLIN GERMANY  
Tel. +49 (163) 625 8941  
info@fulcrum-ce.com

#### JAPAN

FULCRUM JAPAN  
65 Yoshida-cho, Naka-ku  
231-0041 Yokohama  
Tel. +81 45 264 2780  
info@fulcrum-jp.com

#### NORTH AMERICA - USA

FULCRUM NORTH AMERICA  
Sarasota, Florida  
Tel. +1 (941) 894 7930  
info@fulcrum-na.com

#### TAIWAN

PRIMATEK Ltd.  
No.4, Gongyequ 10th Rd.  
Taichung City 407 - Xitun Dist.  
Taiwan (R.O.C.)  
Tel. +886 4 23506831  
Fax: +886 4 23596764  
info@primatek.biz

## Service Center Network

### FULCRUM WHEELS S.R.L.

Via E.Fermi 13  
36057 Arcugnano (VI)  
Tel. +39 0444 289306  
Fax +39 0444 962844  
info@fulcrumwheels.com  
technical@fulcrumwheels.com

#### AUSTRALIA

DE GRANDI CYCLES  
Geelong Victoria  
Tel. +61 35225 3898  
Fax +61 35222 3850  
e-mail: info@degrandi.com.au

#### AUSTRIA

EHS  
A-4600 WELS  
Tel. +43 7242 206360221  
Fax +43 7242 20636020  
e-mail: office@ehs.at

#### BELGIUM

SPORT BIKES BVBA  
Industrielaan 46  
9660 Brakel  
Tel. 0032 55 42 63 37  
Fax 0032 55 42 61 33  
Service-be@fulcrumservice.com

#### VAN DER WAL N.V.

2627 Schelle  
Tel. +32 3 880 6391  
e-mail: info@van-der-wal.be

#### CANADA

CYCLES LAMBERT INC.  
Levis (Quebec City)  
Canada  
Tel. +1 418 835 1685  
Fax +1 418 8355322  
e-mail: info@cycleslambert.com

#### CHINA

POWER RACING (Wujiang) Co Ltd  
No 2278 Pangjin Road, Wujiang  
Econ Tech Development Zone,  
Jiang Su Province PRC, (PC#215200)  
Tel. +86 512 63106018;  
+86 10 59231016  
e-mail: info@ironorechina.com

#### CZECH REPUBLIC , SLOVAKIA

CAROSELO S.R.O.  
70200 Ostrava  
CHECK REPUBLIC  
Tel. +420 596 745693  
Fax +420 596 745 692  
e-mail: maxcursor@maxcursor.cz

### DENMARK, NORWAY, SWEDEN

INTERCYCLE A/S  
Tarupvej 63-65  
DK-5210 Odense nv  
Tel. +45 6316 8030  
Fax +45 6316 8002  
e-mail: info@intercycle.dk

#### FRANCE

FULCRUM FRANCE EURL  
58640 VARENNES VAUZELLES  
Tel. +33 3 86 90 34 20  
e-mail: sav@fulcrumwheels.fr

#### GERMANY

HERMANN HARTJE KG  
27318 Hoya/Weser  
Tel. +49 425 18110  
e-mail: hartmut.wiechmann@hartje.de

#### JBS RADSPORT GROSSHANDEL E.H.

D-52249 Eschweiler  
Tel. +49 240378360  
Fax +492403783679  
e-mail: kontakt@jbs-trading.de

#### JAPAN

FULCRUM Japan Service Center  
Yokohama  
Tel. +81 45 342 8230  
Fax +81 45 241 8035  
e-mail: info@fulcrum-jp.com

#### KOREA

VERY GOOD LEISURE (CELLOSPORT)  
Nonhyun-dong, Gangnam-gu Seoul  
Tel. +82 2 3014 4075  
Fax +82 2 3448 5482  
e-mail: choj21@cellosports.com

#### NETHERLAND

ONE WAY DISTRIBUTION  
Postbus 12 , 3000 AA Rotterdam  
Tel. 010 340 3510  
Fax 010 340 3501  
e-mail: Service-nl@fulcrumservice.com

#### NEW ZEALAND

W.H.WORRALL & CO. LTD.  
Auckland New Zealand  
Tel. +64 9 6360641  
Fax +64 9 6360631  
e-mail: david@worrall.co.nz

### PORTUGAL

VIEIRA GRACA & CA. LDA  
Zona Industrial de Alferrarede  
2200-293 Abrantes  
PORTUGAL  
Tel. +351 241371 766 (8)  
Fax +351 241377 415  
e-mail: vieira.graca.jb@gmail.com

#### SPAIN

CASA MASFERRER S.A.  
08400 Granollers- Barcelona (E)  
Tel. +34 93 8463444  
Fax +34 93 8465355  
e-mail: cmventas@casamasferrer.com

#### SWITZERLAND

GOOD PRICE GPR AG  
8610 Uster  
Tel. +41 44 9449393  
Fax +41 44 9449394  
e-mail: info@gprag.ch

#### TAIWAN

MARECHAL INTERNATIONAL CO.,  
LTD.  
No.9, Sinmin Lane, Nantun District  
Taichung City 40871, Taiwan  
Tel. +886-4 2479 3208  
Fax +886-4 2479 3209  
e-mail: asia@marechal.ca

#### UNITED KINGDOM

I-RIDE.CO.UK  
7-8B Mid Sussex Bus. Park  
Ditchling Common Ind. Est.  
Folders Lane East, Ditchling, Sussex  
BN6 8SE  
Tel. 01444 243000,  
Fax 01444 239215  
e-mail: service@i-ride.co.uk

#### U.S.A.

QUALITY BICYCLE PRODUCTS, INC.  
55438-2554 BLOOMINGTON, MN  
Tel. +1 952 9419391  
Fax +1 952 6565252  
e-mail: info@qbp.com

#### BTI

SANTA FE, NM 87507  
Tel. +1 505.4731010  
Fax +1 505.4730011  
e-mail: info@bti-usa.com



TM

# Sales Network

## AUSTRALIA

DE GRANDI CYCLES  
Geelong Victoria  
Australia  
Tel. +61 35225 3898  
Fax +61 35222 3850  
e-mail: info@degrandi.com.au

## AUSTRIA

EHS  
A-4600 WELS  
AUSTRIA  
Tel. +43 7242 206360221  
Fax +43 7242 20636020  
e-mail: office@ehs.at

## BELGIUM

SPORT BIKES BVBA  
Industrielaan 46  
9660 Brakel  
Belgium  
Tel. 0032 55 42 63 37  
Fax 0032 55 42 61 33  
e-mail: fulcrumsales@sportbikes.be

VAN DER WAL N.V.  
2627 Schelle  
Tel. + 32 3 880 6391  
e-mail: info@van-der-wal.be

## BULGARIA

MAXCOM  
4000 Plovdiv  
Tel. +359 32 600 852  
Fax +359 32 921 921  
e-mail:  
m.bachkarov@maxcombike.com

## CANADA

CYCLES LAMBERT INC.  
Levis (Quebec City)  
Canada  
Tel. +1 418 835 1685  
Fax +1 418 8355322  
e-mail: info@cycleslambert.com

## CHINA

POWER RACING (Wujiang) Co Ltd  
No 2278 Pangjin Road, Wujiang  
Econ Tech Development Zone,  
Jiangsu Province PRC, (PC#215200)  
Tel: +86 512 63106018; +86 10  
59231016  
e-mail: info@ironorechina.com

GR BIKE SHANGHAI TRADING CO.  
201322 Pudong new area  
SHANGHAI - P.R. CHINA  
Tel. +86 2160979971  
Fax +86 2160979970  
e-mail: roberto.vaglio@riva.com.cn

## CZECH REPUBLIC, SLOVAKIA

CAROSELLO S.R.O.  
70200 Ostrava  
CHECK REPUBLIC  
Tel. +420 596 745693  
Fax +420 596 745 692  
e-mail: maxcursor@maxcursor.cz

## DENMARK, NORWAY, SWEDEN

INTERCYCLE A/S  
Tarupvej 63-65  
Dk-5210 Odense nv  
Tel. +45 6316 8030  
Fax +45 6316 8002  
E-mail: info@intercycle.dk

## ESTONIA

SPORTDIPARTNER  
12617 Tallin  
Estonia  
Tel. +372 5202508  
e-mail: rattapood@gmail.com

## KOREA

VERY GOOD LEISURE (CELLOSPORT)  
Nonhyun-dong, Gangnam-gu Seoul  
Tel. +82 2 3014 4075  
Fax +82 2 3448 5482  
e-mail: choj21@cellosports.com

## FINLAND

VELOSPORT KY  
Mäkeläkatu 95, 00.610 Helsinki,  
Finlandia  
Tel: 00358 9 7571377  
e-mail: info@velosport.fi

## FRANCE

FULCRUM FRANCE EURL  
58640 VARENNES VAUZELLES  
Tel. +33 386 577867  
e-mail: infos@fulcrumwheels.fr

## GERMANY

HERMANN HARTJE KG  
27318 Hoya/Weser  
Germany  
Tel. +49 425 18110  
e-mail:  
hartmut.wiechmann@hartje.de

RA-CO GMBH  
99198 - Kerspleben  
Germany  
Tel. +49 36203 61445  
Fax +49 36203 50227  
e-mail: christian.schreck@ra-co.de

JBS RADSPORT GROSSHANDEL E.H.  
D-52249 Eschweiler  
Germany  
Tel. +49 240378360  
Fax +492403783679  
e-mail: kontakt@jbs-trading.de

## GREEK

ACTIVE ZONE NETWORK S.A.  
Varis Koropiou & Makedonias 2  
166 72 Vari, Greece  
Tel.: + 30 210 9612929  
Fax: + 30 210 9612520  
e-mail: takis.xouris@cyclist.gr

## ITALY

FULCRUM WHEELS S.r.l.  
Via E. Fermi 13  
36057 Arcugnano (Vi)  
Tel. 0444-2893060  
Fax 0444-962844  
e-mail: info@fulcrumwheels.com

## JAPAN

KAWASHIMA CYCLE SUPPLY CO  
OSAKA, 590-0007  
JAPAN  
Tel. +81 722 381557  
Fax +81 722 386213  
e-mail: info@riogrande.co.jp

NICHINAO SHOKAI CO.LTD.  
101 TOKYO  
Tel. +81 3 3832 6251  
Fax +81 3 3832 6266  
e-mail: serv1@nichinao.co.jp

## NETHERLANDS

ONEWAY DISTRIBUTION BV  
Postbus 12, 3000 AA Rotterdam  
Tel. 0031(0)10 340 3510  
Fax 0031(0)10 340 3501  
e-mail: fulcrumsales@o-w-d.nl

## NEW ZELAND

W.H.WORRALL & CO. LTD.  
Auckland New Zeland  
Tel. +64 9 6360641  
Fax +64 9 6360631  
e-mail: david@worrall.co.nz

## PORTUGAL

VIEIRA GRACA & CA. LDA  
Zona Industrial de Alferrarede  
2200-293 Abrantes  
PORTUGAL  
Tel. +351 241371 766 (8)  
Fax +351 241377 415  
e-mail: vieira.graca.jb@gmail.com

## RUSSIA

VELOSPORT  
Domodedovskaya st. 28  
115582 Moscow  
Tel. +7 (495) 223-43-28  
Tel/Fax +7 (495) 223-44-28  
e-mail: sale@velosport.ru

## SINGAPORE

RODALINK  
7, kaki Bukit Road 1  
n°3-07 Eunos Technolink  
Singapore 415937  
Tel. 65-67493239  
Fax 65-67493531  
e-mail: rodalink.sg@rodalink.com

## SLOVENIA

MAXISPORT D.O.C.  
1000 Ljubljana  
Slovenia  
Tel. +386 154 76500  
Fax +386 154 76568  
e-mail: trgovina@maxisport.si

## SPAIN

CASA MASFERRER S.A.  
08400 Granollers- Barcelona (E)  
Tel. +34 93 8463444  
Fax +34 93 8465355  
e-mail:  
cmventas@casamassferrer.com

## SWITZERLAND

GOOD PRICE GPR AG  
8610 Uster  
Tel. +41 44 9449393  
Fax +41 44 9449394  
e-mail: info@gprag.ch

SWISSBIKE PIERO ZURINO GMBH  
Pilatusstrasse 4  
6063 Dierikon  
Switzerland  
Tel. +41 41 748 55 50  
Fax +41 41 748 55 56  
e-mail: parts@swissbike.net

## TAIWAN

MARECHAL INTERNATIONAL CO.,  
LTD.  
No.9, Sinmin Lane, Nantun District  
Taichung City 40871, Taiwan  
Tel. +886-4 2479 3208  
Fax +886-4 2479 3209  
e-mail: asia@marechal.ca  
**THAILAND**  
PIRIYA INTERNATIONAL CO. LTD  
Bangkok  
Tel. +662 51 501 7980  
Fax +662 51 501 02  
e-mail:  
noppadon@piriya-internation.com

## UNITED KINGDOM

I-RIDE.CO.UK  
7-8B Mid Sussex Bus. Park  
Ditchling Common Ind. Est.  
Folders Lane East, Ditchling, Sussex  
BN6 8SE  
Tel. 01444 243000,  
Fax 01444 239215  
e-mail: info@i-ride.co.uk

## U.S.A.

QUALITY BICYCLE PRODUCTS, INC.  
55438-2554 BLOOMINGTON, MN  
Tel. +1 952 9419391  
Fax +1 952 6565252  
e-mail: info@qbp.com

THE HAWLEY, LLC  
1181 S. Lake Drive  
Lexington, SC  
29073 USA  
Tel. +1 803.359.3492  
Fax +1 803.359.5317,  
+1 800.822.1985  
e-mail: sales@hawleyusa.com

SINCLAIR IMPORTS  
89439 VERDI, NV  
Tel. +1 800 654 8052  
Fax +1 775 345 6013  
e-mail:  
ldonnell@sinclairimports.com

BTI  
SANTA FE, NM 87507  
Tel. +1 505.4731010  
Fax +1 505.4730011  
e-mail: info@bti-usa.com

## UKRAINA

MFK  
Ucraina, Dnepropetrovsk,  
Stalingrado Adnirala  
Velotsentr 156 bis IFC  
Tel. + 056 788 58 58  
e-mail: velo@mfk.com.ua