



## Index

	2013 TEAMS	4
▶ <b>ROAD</b>	WHEELS TECHNOLOGIES	10
	ALUMINIUM WHEELS	22
	<b>RACING ZERO™</b>	23
	<b>RACING 1</b>	24
	<b>RACING 3</b>	25
	<b>RACING QUATTRO</b>	26
	<b>RACING 5</b>	27
	<b>RACING 7</b>	28
	ALL/CARBON WHEELS	30
	<b>RED WIND™ XLR</b>	31
	<b>RED WIND™ XLR 80</b>	32
	<b>RED WIND™ XLR 105</b>	33
	<b>RED WIND™</b>	34
	CARBON WHEELS	36
	<b>RACING SPEED™ DISC</b>	37
	<b>RACING LIGHT™ XLR</b>	38
	<b>RACING SPEED™ XLR 35</b>	39
	<b>RACING SPEED™ XLR</b>	40
	<b>RACING SPEED™ XLR 80</b>	41
	<b>RACING SPEED™ 35</b>	42
	<b>RACING SPEED™</b>	43
▶ <b>CYCLOCROSS</b>	<b>RACING QUATTRO CX</b>	46
	<b>RACING 5 CX</b>	47
	<b>RACING 7 CX</b>	48
▶ <b>OFF-ROAD</b>	WHEELS TECHNOLOGIES	52
	XC/MARATHON/ALL MOUNTAIN 26" WHEELS	58
	<b>RED CARBON™ XRP</b>	59
	<b>RED METAL ZERO™ XRP</b>	60
	<b>RED METAL™ 1 XL</b>	61
	<b>RED METAL™ 3</b>	62
	<b>RED POWER™ XL</b>	63
	<b>RED POWER™ SL</b>	64
	XC/MARATHON/ALL MOUNTAIN 650B WHEELS	66
	<b>RED METAL™ XRP 650B</b>	67
	<b>RED POWER™ XL 650B</b>	68
	XC/MARATHON/ALL MOUNTAIN 29" WHEELS	70
	<b>RED METAL™ 29 XRP</b>	71
	<b>RED METAL™ 29 XL</b>	72
	<b>RED POWER™ 29 XL</b>	73
	<b>RED POWER™ 29 SL</b>	74
	FREERIDE/ENDURO/DOWNHILL	76
	<b>RED ZONE™ XLR</b>	77
	<b>RED FIRE™</b>	79
	<b>RED HEAT™</b>	80
	TECH DATA	82
	SERVICE CENTERS / SALES NETWORK	94

## 2013 FULCRUM® TEAMS - ROAD

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

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



### ▶ LAMPRE MERIDA

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

### ▶ AGR2 LA MONDIALE

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

## 2013 FULCRUM® TEAMS - ROAD



### ▶ ANDRONI GIOCATTOLI

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

## 2013 FULCRUM® TEAMS - OFF-ROAD

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



### ▶ MULTIVAN MERIDA

Since its inception in 2004, the **Multivan Merida Biking Team** has been one of the strongest race teams in professional mountain biking. In an effort to improve even further the team has chosen to use the superior technology of Fulcrum wheels for an added advantage over the competition. For the 2013 season the team has a very strong roster combining stellar returning talent in the form of José Hermida and Gunn-Rita Dahle Flesjå and new but extremely talented riders such as Netherland's mountain biker of the year Rudi van Houts as well as the under23 World champions of 2011 and 2012, Thomas Litscher and Ondrej Cink. By combining experienced and talented veteran riders with very promising, young riders, the **Multivan Merida Biking Team** has been very competitive in cross country, cross country eliminator and selected marathon and stage races. In their quest for the top spot on the podium week in and week out during the 2013 season they have been aided by the full line of Fulcrum performance off road wheels giving them the perfect solution no matter the terrain or discipline.



# ▶ OFF-ROAD

Since its beginning Fulcrum® has been dedicated to producing the **most performance oriented and resistant wheel available** for off road use.

This dedication to **quality and durability** has been applied to the Off-Road sector and as the disciplines in Off-Road continue to evolve and grow in numbers, Fulcrum® is now dedicated to finding solutions for each and every standard.

**The new Fulcrum® 2014 Off Road line** follows the mission of producing the **best wheel for every discipline and every condition.**

## WRS™

### 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.

Fulcrum® gives you all the technical information, now it's up to you to choose the perfect wheel for your needs! Your passion, your riding style and your preferences will help you make the best decision.

### What does W.R.S. mean?

#### WEIGHT

One of the most important factors in your wheel decision as it has a large impact on performance. Perhaps the easiest to quantify it is one factor that is quite easy to evaluate. Weight of the wheel affects many aspects of performance. The wheel's acceleration and inertia are determined by its rotational mass and this can be varied according to material selection, design and construction methods. Fulcrum has always designed its wheels with a very keen eye on finding the best solution for lightweight construction without sacrificing other performance or durability qualities.

#### REACTIVITY

How quickly is power transferred from your muscles into forward motion? How quickly can input be turned into gained distance or directional change? To answer this one must know the REACTIVITY of the frame and wheelset as a whole. The common denominator being the frame, reactivity is then determined by drivetrain and wheels. The reactivity of the wheel depends primarily on torsional and lateral rigidity which are determined by the material choice of the rim, hub construction and design, spoke material, tension and count in addition to other construction based factors.

#### SMOOTHNESS

The smoothness of a wheel refers to its rolling resistance or lack thereof. Apart from wind resistance and wheel flex, friction is one of the most important factors that contributes to a wheel's efficiency. Friction saps away precious energy from the cyclist and leaves him or her less fresh to combat other variables such as wind or steep gradients.

<b>W</b>	Weight	7
<b>R</b>	Reactivity	6,5
<b>S</b>	Smoothness	8

	WEIGHT	REACTIVITY	SMOOTHNESS
<b>XC   MARATHON   ALL MOUNTAIN - 26" WHEELS</b>			
RED CARBON™ XRP	10	10	10
RED METAL™ ZERO XRP	9	9	10
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
<b>XC   MARATHON   ALL MOUNTAIN - 650B WHEELS</b>			
RED METAL™ XRP 650B	9	9	10
RED POWER™ XL 650B	7	8	9
<b>XC   MARATHON   ALL MOUNTAIN - 29" WHEELS</b>			
RED METAL™ 29 XRP	9,5	9	9
RED METAL™ 29 XL	8	8,5	9
RED POWER™ 29 XL	7	7	7
RED POWER™ 29 SL	6	6,5	7
<b>FREERIDE   ENDURO   DOWNHILL 26"</b>			
RED ZONE™ XLR	8,5	8	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.

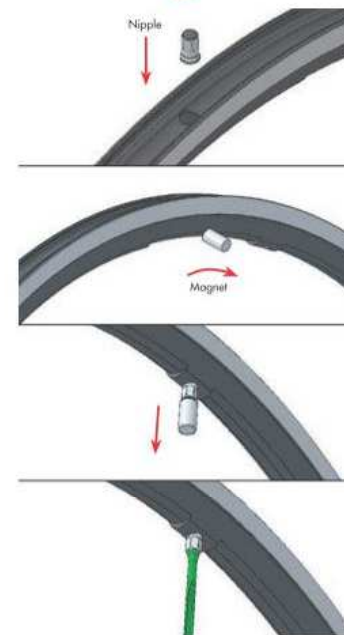
Energy dispersion is drastically reduced by the tubeless tyre. The advantages are indisputable even in terms of practicality. Fitting the tyre is facilitated by the form of the rim while two tracks in the rim groove help keep the tyre perfectly positioned at all times. Ultra-Fit™ Tubeless technology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

The advantages of ULTRA-FIT™ technologies are:

- easy tyre 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™?

Two-to-One™ is a solution that offers linear power transfer, increased efficiency, higher rigidity and longer life of the wheel. Careful studies carried out by the engineers in the Fulcrum® R&D department showed that asymmetrical forces such as braking (brake force is applied to disc side) or acceleration where the force is applied to the drive side create unbalanced and non linear input to the wheel's structure. This asymmetry must be counterbalanced if the wheel is to function efficiently.

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.



## 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.



## QR/15mm THRU-AXLE ADAPTER SYSTEM



The big wheeled world of mountain biking is continuously in evolution. Mountain bikers are well known for adopting new technologies and experimenting with new solutions in an effort to better adapt their bike to their riding style or changing terrain. Fulcrum is dedicated to offer as many new solutions as possible in an effort to give riders several choices.

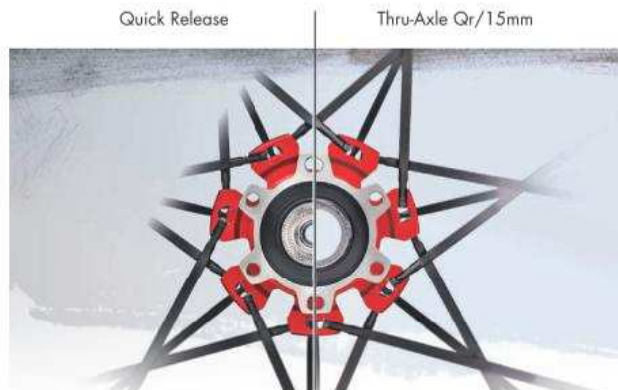
The Fulcrum® 2014 range included the standard modification kit with quick release and 15mm thru axle for the front wheel of Red Metal™ Zero, Red Metal™ 1 XL, Red Metal™ 3, Red Power™ XL, Red Metal™ 29 XL, Red Power™ 29 XL wheels and the 2 versions of Red Zone™. A clever solution that will allow you to use the Fulcrum wheels on bikes with front forks with traditional release or thru axle.



Quick Release



Thru-Axle Qr/15mm



Quick Release

Thru-Axle Qr/15mm

## 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 2014 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.



Standard 135mm



Syntace X-12



Standard 135mm

Syntace X-12

142

135

135

## 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.

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.



RED CARBON™ XRP

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RED METAL™ ZERO XRP

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RED METAL™ 1 XL

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RED METAL™ 3

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RED POWER™ XL

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RED POWER™ SL

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RED METAL™ XRP 650B

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RED POWER™ XL 650B

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RED METAL™ 29 XRP

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RED METAL™ 29 XL

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RED POWER™ 29 XL

•

RED POWER™ 29 SL

•

RED ZONE™ XLR

•

# RED CARBON™ XRP

XC RACE

Available versions: **TUBELESS: 1347 g**

The Red Carbon™ XRP is one of the lightest tubeless wheels available but while it boasts an extremely low weight it is also a formidable performance oriented wheel with a no-compromise construction. With podium potential in its DNA, the Red Carbon™ XRP is your best choice to improve your 26" mtb.



## RIM

**Full carbon:** reduces weight while offering fantastic lateral stiffness which translates into greater reactivity.



## Exclusive pressing system for the rim in unpainted carbon

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

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

## SPOKES

**Straight-head spokes in steel**



## Aluminium nipples:

reduce the peripheral mass of the wheel to the minimum, thus increasing its reactivity.

**Two-to-One Spoke Ratio™**

## HUB

**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**

**Aluminium axle**

## QUICK RELEASE



## XC/MARATHON/ALL MOUNTAIN 26" WHEELS

RED CARBON™ XRP	59
RED METAL™ ZERO XRP	60
RED METAL™ 1 XL	61
RED METAL™ 3	62
RED POWER™ XL	63
RED POWER™ SL	64



Front wheel





# RED METAL™ ZERO XRP

XC RACE / XC / MARATHON

Available versions: **TUBELESS: 1470 g**

When a wheel has XRP in the name, you can be sure you are talking about a product that is at the top of its class. The Red Metal Zero™ XRP is no exception. Employment of the most cutting edge and prestigious materials such as carbon fiber, aluminum and titanium, in addition to advanced rim production techniques, allows Fulcrum to produce an extremely lightweight yet robust and reactive wheelset. At 1470 grams this wheelset is light enough for the steepest and longest climbs but sturdy enough for the roughest descents. RED METAL™ ZERO XRP, the podium just got closer.



Front wheel



## RIM

### Triple milled rim in aluminium:

extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.



## MoMag™

## SPOKES

### Straight-head aero spokes in aluminium:

lightweight and greater reactivity.

### Aluminium nipples



## Two-to-One Spoke Ratio™

## HUB

### 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 and increases the overall reactivity of the wheel.

### FW body in titanium:

reduces the weight of the wheel – increases reactivity.

### Aluminium axle

### Set of QR/15mm Thru-Axle front wheel adaptors

### Cup/cone bearing system (6 bolt version)

Industrial bearings with very low friction value (AFS version)

## QUICK RELEASE



# RED METAL™ 1 XL

XC / MARATHON / ALL MOUNTAIN

Available versions: **TUBELESS: 1650 g**

As with all Fulcrum® products in designing the Red Metal™ 1 XL three important factors were taken into consideration: weight reduction, increased performance and durability. The Red Metal™ 1 XL is built to stand up to all of the abuse that the trail can put in front of it while maintaining its heightened performance in all conditions and over all types of terrain. A race ready wheelset ready to climb hills, overcome obstacles and descend with the best.



## RIM

### Milled rim



### MoMag™:

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

## SPOKES

### Oversized round section straight-pull aluminium spokes:

less weight, greater reactivity, aggressive look.



## Aluminium nipples

## Two-to-One Spoke Ratio™



Front wheel

## HUB

### Oversized flange on the drive side

Over-size aluminium hub



### Industrial bearings with low friction value and adjustment system

### 20mm aluminium axle

### Set of QR/15mm Thru-Axle front wheel adaptors

### Set of Syntace X-12 135/142mm rear wheel adaptors

### 20mm link pin for front wheels

## QUICK RELEASE



## RED METAL™ 3

XC / MARATHON / ALL MOUNTAIN

Available versions: **TUBELESS: 1685 g**

Red Metal™ 3 is the tubeless tire for any terrain. Weighing in at a meager 1685g, it fears no climb just as its sturdy tubeless rim, oversized hub and straight-head steel spokes make for a sturdy construction that gives you total control even on those tough descents. Racing or training, rain or shine, singletrack or gravel path the Red Metal™ 3 is your perfect companion for the journey.



### RIM

#### Milled rim:

extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.



### MoMag™

### SPOKES

#### Steel spokes with a variable section

#### Aluminium nipples:

reduce the peripheral mass of the wheel to the minimum, thus increasing its reactivity.



### Two-to-One Spoke Ratio™

### HUB

#### Oversize aluminium hub



#### Oversized flange on the drive side

**Sealed industrial bearings:** exceptional quality and smoothness; high efficiency over time.

#### 20mm aluminium axle

**Set of QR/15mm Thru-Axle front wheel adaptors**

**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



Front wheel

## RED POWER™ XL

XC / MARATHON / ALL MOUNTAIN

Available versions: **CLINCHER: 1740 g**

Want to go Fulcrum® fast but still want to run clincher tires? Red Power™ XL is the wheelset for you. High quality milled rim, steel straight-head spokes, an oversized aluminum hub and Two-to-One Spoke Ratio™ on the rear wheel make for a lighter but performance based wheelset ready for any race you can find.



### RIM

#### Milled rim:

extremely lightweight. Laterally stiff and very reactive.



### SPOKES

#### Straight-head spokes in steel

#### Nipples with self-locking system:

maintain the tension of the spokes over time – they do not require maintenance.



#### Two-to-One Spoke Ratio™:

on the rear wheel the number of spokes on the drive side is double that of the opposite side. Greater stability of the wheel thanks to the perfect balance between the spoke tensions.

### HUB

#### Oversize aluminium hub:

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



#### Sealed industrial bearings

**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 thru-axle.

**Set of Syntace X-12 135/142mm rear wheel adaptors**

### QUICK RELEASE



Front wheel

# RED POWER™ SL

XC / MARATHON / ALL MOUNTAIN

Available versions: **CLINCHER: 1959 g**

Fulcrum® quality and speed available to everyone. The Red Power™ SL is a fantastic wheelset ready for the abuse of those hard training days or even a race. The hub design, lightened rim, straight-head spokes and other quality enhancements make this a do-it-all wheel that you can't do without.



Front wheel

## 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**



## Nipples with self-locking system:

these maintain the tension of the spokes over time – they do not require maintenance.

## Two-to-One Spoke Ratio™

## HUB

### 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:** extremely lightweight – very high rigidity. Improves steering precision.

**Set of QR/15mm Thru-Axle front wheel adaptors**

## QUICK RELEASE





## XC/MARATHON/ALL MOUNTAIN 650B WHEELS

For 2014, off road cyclists can feel comfortable in knowing that, whatever standard they choose, they can count on Fulcrum® to provide the performance and quality that even the most accomplished athletes have come to appreciate.

With the launch of two new wheels designed around the 650B (27.5") platform Fulcrum® has completed the off road range. The Fulcrum® engineering staff has worked diligently to design and produce wheels around this new platform that maintain the same ride quality and dependability that its 26" and 29" brethren have become famous for.

## RED METAL™ XRP 650B

XC RACE / XC / MARATHON / ALL MOUNTAIN

Available versions: **TUBELESS: 1535 g**

The Red Metal™ XRP 650B is a tubeless wheelset ready for the rigors and extreme demands of professional racing. Weighing in at a mere 1535gr for the pair, the newly added XRP 650B is light enough for the toughest climbs as well as for the quickest accelerations on race day. Performance solutions lie in exclusive technology such as the triple-milled lightened rim and the oversize carbon fiber hub. Double seal construction, with one seal directly incorporated into bearings and another in the hub, ensures that these wheels maintain their efficiency over time and can stand up to the most demanding terrains of off road cycling. Available in both 6-Bolt and AFS configurations, the Red Metal™ XRP 650B is perfectly compatible with any system.



Front wheel



67



### RIM

**Triple milled rim in aluminium:** extremely reduced weight while maintaining a high level of lateral rigidity.



### MoMag™

### SPOKES

**Thinned straight head reinforced steel spokes**

**Aluminium nipples:** make it possible to reduce the peripheral mass of the wheel to the minimum, thus increasing its reactivity.



### Two-to-One Spoke Ratio™

### HUB

**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.

### Aluminium axle

**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**

**Cup/cone bearing system (6 bolt version)**

**Industrial bearings with very low friction value and adjustment system (AFS version)**

**Compatible with SRAM XX1 drivetrain**

### QUICK RELEASE



# RED POWER™ XL 650B

XC / MARATHON / ALL MOUNTAIN

Available versions: **CLINCHER: 1816 g**

The Red Power™ XL 650B is the 27,5" performance solution available to a wider audience as it offers the same Fulcrum™ quality as the highest end models in a slightly heavier version. Weighing in at a very respectable 1816 grams for the pair, this new wheel is ready for the toughest rides. Double seal construction ensures that these wheels maintain their efficiency over time despite the rough conditions encountered on the trail. With its oversized aluminum hub, lightweight axle and the possibility to use either a traditional quick release or a 15mm Thru-Axle, this wheelset is perfect for your local race or the long weekend ride on local trails.

2016  
NEW  
MODEL



Front wheel



## RIM

**Milled rim of 27,5":**  
extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.



## SPOKES

**Straight-head spokes in steel**

**Nipples with self-locking system:**  
these maintain the tension of the spokes over time – they do not require maintenance.



**Two-to-One Spoke Ratio™:**

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

## HUB

**Oversize aluminium hub**



**Sealed industrial bearings:**  
exceptional quality and smoothness; high efficiency over time.

**20mm aluminium axle:**  
extremely lightweight – very high rigidity. Improves steering precision.

**Set of QR/15mm Thru-Axle front wheel adaptors**

**Set of Syntace X-12 135/142mm rear wheel adaptors**

## QUICK RELEASE





## XC/MARATHON/ALL MOUNTAIN 29" WHEELS

With the introduction of the Red Metal™ 29 XRP wheelset XC and XC marathon athletes alike can ride an even more advanced version of the prestigious Red Metal™ 29 XL that aided Fulcrum's top athletes to several podium positions over past seasons.

The Red Metal™ 29 XRP completes the family of Fulcrum 29" wheels alongside its three big-wheeled brothers. Fulcrum® quality along with the advantages that the 29" wheel represents, faster rolling, improved angle of attack and better grip, are now available to everyone no matter the experience level or budget.

The entire line can run either traditional quick release skewers or the stiffer 15mm through axle/quick release offering compatibility with any fork.

## RED METAL™ 29 XRP

XC RACE / XC / MARATHON / ALL MOUNTAIN

Available versions: **TUBELESS: 1635 g**

The Red Metal™ 29 XRP is the pinnacle of the Fulcrum 29er line and is designed and built to offer professional level performance with each and every use. The keys to its excellent performance lie in exclusive solutions such as the triple-milled, lightweight rim, oversize carbon fiber hub, thinned straight head spokes and a unique Fulcrum Two-to-One spoke layout. These and other advancements make this wheelset a one-way ticket to the top step of the podium. To go Fulcrum Fast, RED METAL 29 XRP is the only way to go.



### RIM

#### Triple-milled aluminum rim:

extremely lightweight. Excellent lateral stiffness and reactivity of the wheel.



### MoMag™

### SPOKES

#### Thinned straight head reinforced steel spokes

**Aluminium nipples:** make it possible to reduce the peripheral mass of the wheel to the minimum, thus increasing its reactivity.



### Two-to-One Spoke Ratio™

### HUB

#### 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.

#### Aluminium axle

#### 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

#### Cup/cone bearing system (6 bolts version)

**Industrial bearings with very low friction value and adjustment system (AFS version)**

**Compatible with SRAM XX1 drivetrain**

### QUICK RELEASE



Front wheel



# RED METAL™ 29 XL

XC / MARATHON / ALL MOUNTAIN

Available versions: **TUBELESS: 1750 g**

As the 29er frames available are continuously more and more prevalent, the best way to dress them for success is a pair of Red Metal™ 29 XL wheels. Fulcrum™ quality, speed and precision is guaranteed with each and every product that we produce and the Red Metal™ 29 XL is no different. Thinned straight-head reinforced steel spokes, directional nipple holes, MoMag™ construction, and a Two-to-One™ spoke ratio make for a performance wheelset with countless technological advancements ready to improve your riding experience.



Front wheel



## RIM

**Milled rim for lighter construction.**



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

## SPOKES

**Thinned straight head reinforced steel spokes:** less weight, improved reactivity and aggressive look.



**Aluminium nipples**

**Two-to-One Spoke Ratio™**

## HUB

**Oversize aluminium hub**



**Oversized flange on the drive side:** provides greater torsional stiffness and increases the overall reactivity of the wheel.

**Industrial bearings with very low friction value and adjustment**

**20mm aluminium axle**

**Set of QR/15mm Thru-Axle front wheel adaptors**

**Set of Syntace X-12 135/142mm rear wheel adaptors**

## QUICK RELEASE



# RED POWER™ 29 XL

XC / MARATHON / ALL MOUNTAIN

Available versions: **CLINCHER: 1915 g**

The Red Power™ 29 XL offers a performance wheelset perfect for a wider audience. With its oversized aluminium hub, sealed industrial bearings, lightweight axle and the possibility to use either a traditional quick release or a 15mm Thru-Axle, this wheelset is ready for your local xc or marathon or the long weekend ride. 29" wheels bring several advantages and their increased traction, higher rolling inertia and the ease with which they overtake obstacles make them an obvious choice for those wishing to take their ride to the next level.



Front wheel



## RIM

**29" milled rim:**

milling allows for lighter weight while Fulcrum design maintains a stiff structure.



## SPOKES

**Straight-head spokes in steel**

**Nipples with self-locking system:** these maintain the tension of the spokes over time.



**Two-to-One Spoke Ratio™:** on the rear wheel the number of spokes on the drive side is double that of the opposite side. Greater stability of the wheel thanks to the perfect balance between the spoke tensions – greater torsional stiffness and greater reactivity.

## HUB

**Oversize aluminium hub**



**Sealed industrial bearings:** exceptional quality and smoothness; high efficiency over time.

**20mm aluminium axle:** extremely lightweight – very high rigidity. Improves steering precision.

**Set of QR/15mm Thru-Axle front wheel adaptors**

**Set of Syntace X-12 135/142mm rear wheel adaptors**

## QUICK RELEASE



# RED POWER™ 29 SL

XC / MARATHON / ALL MOUNTAIN

Available versions: **CLINCHER: 2005 g**

Red Power™ 29 SL, completely new and highly efficient, are much lighter thanks to the new milled rim. Straight-head spokes and oversize hub make the wheel highly rigid and reactive and ready for any terrain.



## RIM

**29" milled rim:** milling allows for lighter weight while Fulcrum design maintains a stiff structure.



## SPOKES

**Straight-head steel spokes:** high spoke tension, maximum stiffness and reactivity.

**Nipples with self-locking system**



## HUB

**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 axle:** 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



Front wheel







## FREERIDE/ENDURO/DOWNHILL 26" WHEELS

RED ZONE™ XLR	77
RED FIRE™	78
RED HEAT™	79

## RED ZONE™ XLR

FREERIDE / ENDURO

Available versions: **TUBELESS: 1705 g**

XLR is synonymous with high performance. Red Zone™ XLR is synonymous with the quality necessary for going big. Lightweight, reactive and built to stand up to the toughest terrain of freeride and enduro disciplines. Beefy spokes and nipples and robust rims come together with other innovative solutions to make for one sure-fire solution for your next Enduro competition.



### RIM

**C 21 rim for tubeless wheel:**  
suitable for tubeless wheels of up to 69mm/2.70".



### Ultra-Fit™

Milled rim

MoMag™

### SPOKES

**Overize round section straight-head spokes in aluminium:**  
lightweight, greater reactivity, aggressive look.

Aluminium nipples



**Two-to-One Spoke Ratio™**

### HUB

Overize aluminium hub



**Overized flange on the drive side**

**Industrial bearings with very low friction value and adjustment system**

**Thru-axle for front wheels:**

exceptional rigidity of the front wheel; improved stability at high speeds and when braking. Choice of version with 15mm or 20mm thru-axle.

**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



Front wheel



## RED FIRE™

ENDURO / DOWNHILL

Available versions: **TUBELESS: 2215 g**

Get ready to blaze the trail with the Red Fire from Fulcrum®. This wheelset is ready to take any terrain head on. The rougher the better thanks to its sturdy construction making the Red Fire™ your best bet for your next downhill appointment. Red Fire: a DH build with a road wheel's speed and precision.



### RIM

#### C 23 rim for tubeless wheel:

suitable for tubeless wheels of up to 76mm/3.00".



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

#### Milled rim

##### 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™



### SPOKES

#### Steel spokes with a variable section



#### Aluminium nipples with self-lock system:

minimize the peripheral mass of the wheel, increasing reactivity. They do not require maintenance, thanks to the self-lock system.

### HUB

#### Industrial bearings with very low friction value and adjustment system

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

**12mm thru-axle for rear wheels and 150mm O.L.D.**



Front wheel

## RED HEAT™

FREERIDE / ENDURO / DOWNHILL

Available versions: **CLINCHER: 2202 g**

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.



### HUB

#### Industrial bearings with very low friction value and adjustment system:

increased smoothness and high efficiency over time. Extremely easy ball-bearing adjustment.

#### 20mm/110mm thru-axle for front wheels:

exceptional rigidity of the front wheel; improved stability at high speeds and when braking.



#### 12mm thru-axle for rear wheels and 150mm O.L.D.:

exceptional rigidity of the rear wheel; improved stability at high speeds and when braking.



Front wheel



## ▶ TECH DATA

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

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

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

## OFF-ROAD

	weight*	finish	welded rim joint	RIM TAPE	machining	nominal width	spoke material	number of spokes	type of spokes	hub material (body/axle/Fwbody)	O.L.D.	Axle	braking system compatibility
▶ XC/MARATHON/ALL MOUNTAIN - 26" WHEELS													
RED CARBON™ XRP front Disk Brake	597	carbon	no	not needed	no	19	stainless steel	10 left 10 right	variable section	Alu/Carbon/-	100mm	-QR	ISO INTL 6 Bolts
RED CARBON™ XRP rear Disk Brake	750	carbon	no	not needed	no	19	stainless steel	10 sinistra 10 right	variable section	Alu/Carbon/Titanium	130mm	-QR	ISO INTL 6 Bolts
RED METAL™ ZERO XRP front Disk Brake	670	black red&blk	yes	not needed	yes	19	stainless steel	14 left 7 right	aero with variable section	Alu/Carbon/-	100mm	-QR (kit HH15)	ISO INTL 6 Bolts AFS™
RED METAL™ ZERO XRP rear Disk Brake	800	black red&blk	yes	not needed	yes	19	stainless steel	8 left 16 right	aero with variable section	Alu/Carbon/Titanium	135mm	-QR	ISO INTL 6 Bolts AFS™
RED METAL™ 1 XL front Disk Brake	735	black	yes	not needed	yes	19	stainless steel	16 left 8 right	oversize Ø 2,8mm	Alu/Alu/-	100mm	-QR (kit HH15) -HH20	ISO INTL 6 Bolts AFS™
RED METAL™ 1 XL rear Disk Brake	915	black	yes	not needed	yes	19	stainless steel	8 left 16 right	oversize Ø 2,8mm	Alu/Alu/St	135mm/142mm	-QR -HH12 135/142	ISO INTL 6 Bolts AFS™
RED METAL™ 3 front Disk Brake	745	black	yes	not needed	yes	19	stainless steel	16 left 8 right	variable section	Alu/Alu/-	100mm	-QR (kit HH15)	ISO INTL 6 Bolts AFS™
RED METAL™ 3 rear Disk Brake	940	black	yes	not needed	yes	19	stainless steel	8 left 16 right	variable section	Alu/Alu/St	135mm/142mm	-QR -HH12 135/142	ISO INTL 6 Bolts AFS™
RED POWER™ XL front Disk Brake	790	black	no	yes	yes	19	stainless steel	16 left 8 right	variable section	Alu/Alu/-	100mm	-QR (kit HH15)	ISO INTL 6 Bolts AFS™
RED POWER™ XL rear Disk Brake	950	black	no	yes	yes	19	stainless steel	8 left 16 right	variable section	Alu/Alu/St	135mm/142mm	-HH12 135/142	ISO INTL 6 Bolts AFS™
RED POWER™ SL front Disk Brake	876	black	no	yes	no	19	stainless steel	16 left 8 right	standard 2mm	Alu/Alu/-	100mm	QR HH15	ISO INTL 6 Bolts
RED POWER™ SL rear Disk Brake	1083	black	no	yes	no	19	stainless steel	8 left 16 right	standard 2mm	Alu/Alu/St	135mm	-QR	ISO INTL 6 Bolts
▶ XC/MARATHON/ALL MOUNTAIN - 650B WHEELS													
RED METAL™ XRP 650B front Disk Brake	705	red&blk	yes	not needed	yes	19	stainless steel	16 left 8 right	variable section	Carb-Alu/Alu/-	100mm	-QR (kit HH15)	ISO INTL 6 Bolts AFS™
RED METAL™ XRP 650B rear Disk Brake	830	red&blk	yes	not needed	yes	19	stainless steel	8 left 16 right	variable section	Carb-Alu/Alu/Titanium	135mm	-QR -HH12 135/142 -HH12 135/142.XD (XXT)	ISO INTL 6 Bolts AFS™
RED POWER™ XL 650B front Disk Brake	826	black	no	yes	yes	19	stainless steel	16 left 8 right	variable section	Alu/Alu/-	100mm	-QR -HH15	ISO INTL 6 Bolts
RED POWER™ XL 650B rear Disk Brake	990	black	no	yes	yes	19	stainless steel	8 left 16 right	variable section	Alu/Alu/St	135mm	-QR -HH12 135/142	ISO INTL 6 Bolts

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

## OFF-ROAD

	weight*	finish	welded rim joint	RIM TAPE	machining		nominal width	spoke material	number of spokes	type of spokes	hub material (body/axle/Fwbody)	O.L.D.	Axle	braking system compatibility	
<b>XC/MARATHON/ALL MOUNTAIN - 29" WHEELS</b>															
<b>RED METAL™ 29 XRP</b> front Disk Brake	740	black red&blk	yes	not needed	yes		19	stainless steel	16 left 8 right	aero with variable section	Carb-Alu/Alu/-	100mm	- QR (kit HH15)	ISO INTL 6 Bolts AFS™	
<b>RED METAL™ 29 XRP</b> rear Disk Brake	895	black red&blk	yes	not needed	yes		19	stainless steel	14 left 14 right	aero with variable section	Carb-Alu/Alu/Titanium	135mm	- QR - HH12 135/142 - HH12 135/142 XD (XX1)	ISO INTL 6 Bolts AFS™	
<b>RED METAL™ 29 XL</b> front Disk Brake	780	black	yes	not needed	yes		19	stainless steel	16 left 8 right	oversize Ø 2,8mm	Alu/Alu/-	100mm	- QR (kit HH15)	ISO INTL 6 Bolts	
<b>RED METAL™ 29 XL</b> rear Disk Brake	970	black	yes	not needed	yes		19	stainless steel	8 left 16 right	oversize Ø 2,8mm	Alu/Alu/St	135mm	- QR - HH12 135/142	ISO INTL 6 Bolts	
<b>RED POWER™ 29 XL</b> front Disk Brake	875	black	no	yes	yes		19	stainless steel	16 left 18 right	aero with variable section	Alu/Alu/-	100mm	- QR - HH15	ISO INTL 6 Bolts	
<b>RED POWER™ 29 XL</b> rear Disk Brake	1040	black	no	yes	yes		19	stainless steel	14 left 14 right	aero with variable section	Alu/Alu/St	135mm/142mm	- QR - HH12 135/142	ISO INTL 6 Bolts	
<b>RED POWER™ 29 SL</b> front Disk Brake	870	black	no	yes	yes		19	stainless steel	16 left 18 right	aero with variable section	Alu/St/-	100mm	QR HH15	ISO INTL 6 Bolts	
<b>RED POWER™ 29 SL</b> rear Disk Brake	1135	black	no	yes	yes		19	stainless steel	14 left 14 right	aero with variable section	Alu/St/St	135mm	- QR	ISO INTL 6 Bolts	
<b>FREERIDE/ENDURO/DOWNHILL - 26" WHEELS</b>															
<b>RED ZONE™ XLR</b> front 1.5 Thru-Axle Disk Brake	770	bl/sil	yes	not needed	yes		21	aluminium	16 left 8 right	oversize Ø 2,8mm	Alu/Alu/-	100mm	-	ISO INTL 6 Bolts	
<b>RED ZONE™ XLR</b> front 20 Thru-Axle Disk Brake	785	bl/sil	yes	not needed	yes		21	aluminium	16 left 8 right	oversize Ø 2,8mm	Alu/Alu/-	110mm	-	ISO INTL 6 Bolts	
<b>RED ZONE™ XLR</b> rear Disk Brake QR	950	bl/sil	yes	not needed	yes		21	aluminium	8 left 16 right	oversize Ø 2,8mm	Alu/Alu/St	135mm	-	ISO INTL 6 Bolts	
<b>RED ZONE™ XLR</b> rear 12 Thru-Axle (kit Syntace X-12) Disk Brake	935	bl/sil	yes	not needed	yes		21	aluminium	8 left 16 right	oversize Ø 2,8mm	Alu/Alu/St	135mm	-	ISO INTL 6 Bolts	
<b>RED FIRE™</b> front 20 Thru-Axle Disk Brake	1016	red	yes	not needed	yes		23	aluminium	16 left 16 right	variable section	Alu/Alu/-	110mm	-	ISO INTL 6 Bolts	
<b>RED FIRE™</b> rear 12 THRU-AXLE Disk Brake	1199	red	yes	not needed	yes		23	aluminium	16 left 16 right	variable section	Alu/Alu/St	150mm	-	ISO INTL 6 Bolts	
<b>RED HEAT™</b> front 20 THRU-AXLE Disk Brake	1012	black	yes	yes	no		25	stainless steel	16 left 16 right	variable section	Alu/Alu/-	110mm	-	ISO INTL 6 Bolts	
<b>RED HEAT™</b> rear 12 THRU-AXLE Disk Brake	1190	black	yes	yes	no		25	stainless steel	16 left 16 right	variable section	Alu/Alu/St	150mm	-	ISO INTL 6 Bolts	

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

## MAXIMUM OPERATING PRESSURE

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

## ADAPTATORS

### TYPES OF WHEEL MOUNTING

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

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