WHEELS TECHNOLOGY

Integrated Wheel-Tyre systems for maximum performance

LOW INERTIA

ISM & ISM3D

Since the rim wall between each spoke hole is subjected to very little stress, it is possible to mill it to save weight. The rim is machined and only the necessary material is remaining to provide the best weight / rigidity / durability ratio. ISM3D pushes the envelope of ISM a step further by also machining the rim sidewalls. Mavic multi-patented

- Less weight on the rim
- Faster accelerations and better performance

Yksion

Build with high treads count for both clinchers (Nylon - 127TPi*) and tubulars versions (Polycotton - 290TPi*). Both Yksion GripLink and Yksion PowerLink tyres feature light and supple casings. Made of aramid, the beads of the clinchers are also very light

- Lighter rotational masses
- Higher maniability

MORE RESPONSIVENESS

Tracomp

Tracomp 30% stiffer: the spokes insure the energy transmission to the road

CLAMPED SPOKES ON EACH END:
- To the rim thanks to the Fore® technology
- To the hub thanks to the Tracomp ring

INCOMPRESSIBLE AND NON-STRETCHABLE SPOKES:
- Metallic spokes are flexible and stretchable which is not the case of tubular carbon spokes
- Tubular carbon spokes can support heavy pressure

Tracomp 10% lighter: Carbon spokes are 38% lighter than stainless spokes

- Minimized stress on rim and hub
- ISM (Inter Spokes Milling) pushed to its maximum to save weight

PowerLink

The choice of a compound is a subtle compromise between grip and rolling resistance. The PowerLink’s rolling tread makes no compromise and associates two different compounds. A softer compound on the shoulders (60a) ensures a high level of grip while a harder compound (70a) in the centre ensures the lowest rolling resistance

- Instant accelerations
- Maximized rolling efficiency

* Threads Per Inch
The Mavic SSC label products are developed in close collaboration with our top athletes. These products meet the strict performance demands of pro riders, and are made for pro cycling.

Wind tunnel aero test with Garmin team
April 2010, Wind tunnel Mercedes GP Petronas Formula One Team, Brackley, England
December 2009, Aero Concept Engineering Wind tunnel, Magny-Cours, France

Wind tunnel aero test with Liquigas team
September 2009, Aero Concept Engineering Wind tunnel, Magny-Cours, France
Downhill test with Fabien Barel
March 2010, Peille and Sospel, France

Cross-country test with Julien Absalon
May 2010, Houffalize, Belgium
**Ellipse**

A light versatile track wheelset - for training and racing

Benefiting from our latest improvement in rim design, the Ellipse gets a new lighter rim extrusion that makes it even more responsive while maintaining its key assets. A performance driven development with the UCI World Cycling Center.

- Low drag thanks to great aerodynamic features
  
  30mm deep rim profile
  Low spoke count (20 front and rear)
  Ultra bladed spokes

- Unaltered power transfer thanks to high stiffness and low weight
  
  Optimized front and rear dishes
  Light 30mm deep welded rim
  Adjustable cartridge bearings (QRM+)

- Light and versatile
  
  100g lighter thanks to new rim extrusion
  Flip-flop rear hub
  Clincher only

1895 g pair > 905 g front / 990 g rear

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**Comète Track**

The track rear wheel with the most Olympic titles!

This wheel has won more than 80% of the medals on all the cycle-racing tracks of the world. This record is in progress following another 17 golds at Beijing. Updated SSC graphics.

- Save time thanks to exceptional aerodynamics
  
  Disc wheel with full carbon dishes
  Lenticular flanges

- Superior rigidity for perfect power transmission
  
  Disc wheel with full carbon dishes
  Lenticular flanges

- Excellent rolling efficiency
  
  High quality cartridge bearing (interchangeable): QRM
  Tubular only

980 g rear

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**iO**

The track front wheel with the most Olympic titles!

This wheel has won more than 80% of the medals on all the cycle-racing tracks of the world. This record is in progress following another 17 golds at Beijing. Updated SSC graphics.

- Save some time thanks to exceptional aerodynamics
  
  V-shaped deep rim
  Stiff beyond expectations
  5 aircraft wings spokes to lower wind resistance

- Superior rigidity for perfect steering
  
  Monobloc construction
  Woven 3K carbon fiber

- Excellent rolling efficiency
  
  Extra low friction cartridge bearing (interchangeable): QRM
  Tubular only

750 g front

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**Comète Track**

The track rear wheel with the most Olympic titles!

This wheel has won more than 80% of the medals on all the cycle-racing tracks of the world. This record is in progress following another 17 golds at Beijing. Updated SSC graphics.

- Save some time thanks to exceptional aerodynamics
  
  Disc wheel with full carbon dishes
  Lenticular flanges

- Superior rigidity for perfect steering
  
  Monobloc construction
  Woven 3K carbon fiber

- Excellent rolling efficiency
  
  Extra low friction cartridge bearing (interchangeable): QRM
  Tubular only

980 g rear
Comète Road
The reference rear wheel-tyre system for time trial and triathlon
Aerodynamics and weight are the key forces of this wheel-tyre system. The lenticular flange boosts your spinning wheel, creating a negative drag under wind conditions. The HM carbon fibers flanges decrease weight and inertia and delivers a faster acceleration.
- SSC wheel-tyre system: the pros choice
  Optimized wheel-tyre system: PowerLink
  Superior endurance: Exalith®
  Distinctive full black - SSC graphics
- Save time thanks to exceptional aerodynamics
  Lenticular flange creates negative drag
  Disc wheel-tyre system with full carbon dishes
- Boost your acceleration thanks to low weight
  High modulus carbon fiber walls with unidirectional and honeycomb weave
  Aluminium axle

1440 g rear
(1150 g without tyre)

Cosmic Carbone Ultimate
Light AND aerodynamic, the Cosmic Carbone Ultimate is the wheel-tyre system to beat for aerodynamic wheels
The Pro Tour teams most wanted wheel-tyre system. The Cosmic Carbone Ultimate has demonstrated its world class performance with prestigious results: UCI world champion, Tour de France Polka Dot jersey, victories on many Classics. This wheel-tyre system can do it all.
- SSC wheel-tyre system: the pros choice
  Optimized wheel-tyre system: Griplink / PowerLink
  Distinctive full black - SSC graphics
- Extremely light (1185 grams) and amazingly aerodynamic
  Monobloc full carbon construction
  Aero all over: 40mm elliptical rim sidewalls, profiled spokes and hubs
- The stiffest carbon wheel-tyre system on the market
  40mm deep rim profile, no spoke drilling
  Asymmetrical rear rim profile 100% carbon spokes

1765 g pair > 810 g front / 955 g rear
(1185 g pair without tyre)

Cosmic Carbone 80
Wind tunnel developed, pro racers approved!
After spending hours of intensive wind tunnel testing, we designed our most aerodynamic spoked wheel-tyre system. Rated as the fastest wheel-tyre system ever ridden by our pro teams (Garmin, Liquigas, Omega Pharma Lotto), they recognize CC80 will make the difference!
- SSC wheel-tyre system: the pros choice
  Optimized wheel-tyre system: Griplink / PowerLink
  Distinctive full black - SSC graphics
- Our most aero wheel-tyre system, wind tunnel proven
  80mm deep dish rim
  Elliptical sidewalls, wide tyre seat bed
  16/20 thin ultra bladed spokes
- Excellent rolling efficiency
  High quality adjustable cartridge bearings: QRM+
  Stainless steel straight pull spokes, non drive side radial lacing
  Tubular only compatible

2330 g pair > 1090 g front / 1240 g rear
(1750 g pair without tyre)

Cosmic Carbone SLR
Technology and look of the Ultimate, into the most efficient clincher wheel-tyre system
The Cosmic Carbone SLR is the first aerodynamic clincher wheel-tyre system. Aerodynamics, lightweight and rolling efficiency are its proven benefits. The exclusive Exalith technology enhances the braking efficiency and the overall look of this wheel-tyre system. Consistent SSC graphics.
- SSC wheel-tyre system: the pros choice
  Optimized wheel-tyre system: Griplink / PowerLink
  Superior endurance: Exalith
  Distinctive full black - SSC graphics
- Got the most aerodynamics !
  52 mm elliptical rims
  Integrated aero spokes: R2R
  Profiled hub caps: low frontal drag
- Aerodynamic sub 1600 grams
  12 K carbon flanges on superlight alloy rims
  Carbon spokes
  Extralight hub design

2239 g pair > 1047 g front / 1192 g rear
(1595 g pair without tyre)
Cosmic Carbone SR
Technology of the Ultimate. Convenience of a clincher wheel.
Directly inspired from the Ultimate, the Cosmic Carbone SR is quickly becoming the wheel to beat for aerodynamic clincher wheels. The perfect blend of aerodynamics, lightweight, stiffness and ease-of-use. Updated graphics.

- Get the most aerodynamics!
  - 52 mm elliptical rims
  - Integrated aeros spokes: R2R
  - Profilled hub caps: low frontal drag

- Aerodynamic sub 1600 grams
  - 12 K carbon flanges on superlight alloy rims
  - Carbon spokes
  - Extralight hub design

- No restriction wheelset
  - Fully clincher compatible
  - Predictable and weatherproof braking
  - Durable and impact resistant rim

1595 g pair > 725 g front / 870 g rear

Cosmic Carbone SL
The best value aerodynamic wheelset, light and stiff
Cosmic Carbone SL features long time proven Mavic aerodynamics. But weight has not been put aside with one of the lightest clincher carbon rims to significantly reduce the inertia. Yet available for any rider, road racers and triathletes! Updated graphics.

- Get more aerodynamics!
  - 52 mm deep rim with elliptical sidewalls
  - Bladed spokes and integrated nipples

- Aerodynamics sub 1750 grams
  - 12 K carbon flanges bonded on new 40 grams lighter alloy rims
  - Aero spokes
  - Low count spokes

- No restriction wheelset
  - Fully clincher compatible
  - Predictable and weatherproof braking
  - Durable and impact resistant rim

1740 g pair > 780 g front / 960 g rear

Cosmic Carbone SL PowerTap
The Mavic aero clincher reference featuring power measuring hub
Scientific power training has become the standard training method for serious competitors and passionate riders. With the Cosmic Carbone SL PowerTap, Mavic offers hard-core athletes the PowerTap technology combined with the performance and convenience of the Cosmic Carbone SL.

- Control your power output
  - PowerTap SL 2.4 hub
  - Wireless 2.4 GHz digital transmission
  - Delivered with PowerTap accessories

- Get more aerodynamics!
  - 52 mm deep rim
  - Elliptical rim sidewalls
  - Low count bladed spokes and integrated nipples

- No restriction wheelset
  - Fully clincher compatible
  - Predictable and weatherproof braking
  - Durable and impact resistant rim

1900 g pair > 780 g front / 1120 g rear

Cosmic Elite
The access to the Mavic aerodynamics performance
Cosmic Elite has been designed for high speed addicts. High elliptical flanges coupled with high efficiency hub and bearings quality, this is the wheel of choice for all speed enthusiasts, road racers and triathletes.

- Access to the Mavic fast and light wheels
  - Fast: new 30mm stiff deep rim, ultra bladed straight pull spokes, aerodynamic hub caps
  - Light: only 1770 grams, low spokes count (20/20)

- Access to the Mavic Quality
  - Rim resistance: SUP welding
  - Reinforced lower bridge
  - High quality cartridge bearings (interchangeable): QRM

- Access to the Mavic Aero look

1770 g pair > 815 g front / 955 g rear
R-Sys SLR
The most responsive wheel-tyre system!
As a demanding racer, you require a sturdy, light, low inertia, stiff-but-not-harsh wheel-tyre system. The R-Sys SLR wheel-tyre system has been designed this way - to offer an unbeatable level of lightweight and responsiveness. A no brainer.

- SSC wheel-tyre system: the pros choice
- Optimized wheel-tyre system: GripLink / PowerLink
- Superior endurance: Exalith®
- Distinctive full black - SSC graphics

- Lighter
  Light and resistant spokes: Tracomp carbon technology
  Lighter rims: ISM machining and Exalith

- Highly responsive
  High energy transfer: Tracomp technology
  Lowered inertia for the same stiffness: ISM
  Lower rolling resistance: Yksion PowerLink

1994 g pair > 917 g front / 1077 g rear
(1370 g pair without tyre)

Ksyrium SLR
The most versatile front wheel-tyre system!
As a criterium racer, you need a wheel-tyre system that can do it all: sturdy, stiff, aerodynamic, comfortable, durable... If this is your ride, the Ksyrium SLR is definitely the best front wheel-tyre system.

- SSC wheel-tyre system: the pros choice
- Optimized wheel-tyre system: GripLink
- Superior endurance: Exalith®
- Distinctive full black - SSC graphics

- More versatility for your bike
  Stable: Zicral spokes, Fore drilling
  Aero bladed spokes

- Rely on the Mavic quality
  Proven technologies: Maxtal, SUP, Fore, QRM+
  Safe cornering: Yksion GripLink
  Sturdy and highly durable rim: Exalith®

947 g front
(635 g without tyre)

R-Sys SL
1295g ! R-Sys technology and performance in the lightest clincher alloy wheelset available
Only exclusive Mavic technologies could make this wheel possible. Low inertia, lightweight and responsiveness reach their maximum. All this with no compromise on reliability. The perfect wheel for the most demanding climbers.

- Lighter: 1295 grams
  The lightest rim: ISM3D
  Light components: carbon hubs, superlight bearings and axles

- Highly responsive
  High energy transfer: Tracomp technology
  The lowest inertia for the same stiffness: ISM3D

- A classy wheelset that matches every bicycle

1295 g pair > 545 g front / 750 g rear

R-Sys
The first wheel featuring the Tracomp technology: light and stiff!
Trust our revisited R-Sys and the Tracomp technology to boost your performance. Reinforced spokes are much more resistant to side impacts and intrusion. Fortunately, it remains as light and as stiff as ever thanks to the exclusive Tracomp technology.

- Light: 1390 grams
  Lighter rims: ISM machining
  Light yet resistant components: reinforced carbon tubular spokes

- Responsive
  High energy transfer: Tracomp technology
  Less inertia for the same stiffness: ISM machining

- Trendy aesthetics
  Black rims and spokes
  Red hubs and rim decals
  Black and red Tracomp spokes ends

1390 g pair > 590 g front / 800 g rear
Ksyrium SR
The best of Tracomp for multiperformance use
Rely on Tracomp technology for an instant energy transfer and on Zicral spokes for more versatility. This outstanding combination will boost your performance.

- Responsive
High energy transfer: Tracomp technology on your rear wheel
Less inertia for the same stiffness: ISM machining
Improved aerodynamics: bladed spokes on your front wheel

- The lightest Ksyrium: 1445 grams
Light and stiff rims: ISM machining
Light yet resistant components: reinforced carbon tubular spokes, Zicral spokes, Maxtal rims

- Rely on the proven Mavic quality
Rim resistance: Maxtal, Sup, Fore Drilling
High quality adjustable cartridge bearings: QRM+
Reinforced rear carbon spokes

1445 g pair > 645 g front / 800 g rear

Ksyrium SL
Race and time proven technologies in a revamped cosmetic
An new consistent graphic design highlights the exclusive technologies developed year after year and gathered in the new Ksyrium SL, such as ISM, Fore, Zicral, Isopulse... A high performance wheelset you can rely on.

- Responsive
Less inertia: ISM
Optimized energy transfer: Isopulse lacing and asymmetrical rim

- Lighter
Light and stiff rims: ISM
Extra-light components: FTS-L free-wheel, Zicral spokes, carbon front hub

- Rely on the proven Mavic quality
Rim resistance: Maxtal, SUP Fore drilling
High quality adjustable cartridge bearings: QRM+

1485 g pair > 645 g front / 840 g rear

Ksyrium Elite
1550 grams - High end technologies - Ksyrium
This wheelset features some of the most high end Mavic technologies, so far reserved to top of the line models: Fore drilling, ISM, Isopulse... All this to make sure you can enjoy the most responsive rides. New consistent Ksyrium family graphic approach. Black or Silver version.

- Responsive wheels
Less inertia: ISM
Optimized energy transfer: Isopulse lacing and asymmetrical rim

- Lighter wheels are faster wheels
A light rim with the same stiffness: ISM machining
Light free-wheel system: FTS-L

- Rely on the proven Mavic quality
Rim resistance: Maxtal, SUP welding, Fore drilling
High quality adjustable cartridge bearings: QRM+

1550 g pair > 890 g front / 860 g rear

Ksyrium Equipe
The lightest Ksyrium Equipe ever featuring impactful graphic design
Forget what you know about Ksyrium Equipe. This new version is down to an impressive 1690 g with a low inertia thanks to a new rim extrusion. It gets a new astonishing white version, featuring consistent Ksyrium family graphic approach. Black or White version.

- Light: 1690 grams
40 grams lighter per rim
FTS-L freewheel system
Optimized lighter hubs

- Stiff
Isopulse
Optimized bearing positioning
Straight pull spokes (stiffer than J-Bent)

- Rely on the proven Mavic quality
Rim resistance: Sup welding
Reinforced rim drillings: HD
High quality cartridge bearings: QRM

1690 g pair > 770 g front / 920 g rear
Ksyrium Equipe PowerTap
The perfect training wheel now gets the most efficient training technology: power measurement
Scientific power training has become the standard training method for serious competitors and passionate riders. With the Ksyrium Equipe PowerTap, Mavic offers hard-core athletes the PowerTap technology combined with the sturdiness and durability of the famous Ksyrium Equipe. Black version only.
- Control your power output
  PowerTap Pro+ hub
  Wireless ANT+ digital transmission lets you chose your monitor
- The perfect training wheel
  Mid-V rim profile
  SUP welded for durability
  UB Control for perfect braking under bad weather conditions
- The Ksyrium Equipe look
1850 g pair > 770 g front / 1080 g rear

Aksium
The access to the Mavic road performance: light and reliable
Entry-level at Mavic doesn’t mean low end. This wheelset provides you with top Mavic technologies. Straight pull aerodynamic spokes, new versatile and lightweight rims, serviceable cartridge bearings… At a very attractive price, the Aksium will make any bike better. Black or Silver version.
- Access to the Mavic Quality
  Rim resistance: SUP welding
  Reinforced rim drilling: H2
  High quality cartridge bearings: QRM
- Access to the Mavic light road wheels
  Sub 1800 grams with weight saving where it matters most: the rims
- Access to the Mavic look
1795 g pair > 830 g front / 965 g rear

Speedcity
Change your wheel, not your bike and improve your training efficiency
The Speedcity can fit any MTB, with or without disc brakes (thanks to its optional V brake adaptor). It’s the perfect road wheel for your MTB: stiff to withstand the brutality of interval training, narrow rim to fit high efficiency tyres… No excuse for not being in shape when the season starts!
- Strong to withstand the abuse of training rides
  Fore drilling increases rim resistance
  24 spokes front and rear
  Straight pull spokes
- Beat the cars on greenlights and stay in front thanks to high efficiency
  Narrow tires compatible to lower rolling resistance
  Low inertia
  FTS-L freewheel system QRM bearings
- Versatile braking ability to fit every bikes on the market
  Disc brake compatible
  UB Control braking surface (optional caliper brake adjusters)
1960 g pair > 865 g front / 1095 g rear
### Crossmax SLR Disc

**The reference wheelset in Cross-country**

Featuring our patented ISM3D technology (machining of lower bridge and sidewalls), the Crossmax SLR Disc reduces inertia to its maximum. This provides the most dynamic ride ever: instant acceleration and direct steering. **Lefty version available.**

- **Extra-light Cross-country wheelset**
  - The lightest rim: ISM3D machining
  - Extra-light components: Zicral double butted spokes, titanium parts
- **Highly responsive wheelset for fast acceleration**
  - Less inertia: ISM3D machining
  - High energy transfer: Isopulse, UST
  - Improved steering: oversized front axle (9/15 convertible)
- **Rely on the proven Mavic quality**
  - Rim resistance: Mavic alloy, Fore drilling, SUP welding
  - Hub quality: FTS-X freewheel, QRm+ bearings

**1520 g pair > 690 g front / 830 g rear**

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### Crossmax SLR

**The reference wheel in Cross-country for weight killers and V-brakes addicts**

For those who are obsessed by weight and ride their V-brakes, the Crossmax SLR is the perfect wheel. Only 1420 grams and very responsive: low inertia, optimized energy transfer and predictable braking efficiency.

- **Extra-light V-Brake wheelset**
  - A light rim: ISM machining
  - Extra-light components: Zicral double butted spokes, titanium parts
- **Highly responsive Cross-country wheelset for fast acceleration**
  - Less inertia: ISM machining
  - High energy transfer: Isopulse, optimized hub, UST
  - Improved control: Ceramic
- **Rely on the proven Mavic quality**
  - Rim resistance: Mavic alloy, Fore drilling, SUP welding
  - Hub quality: FTS-X freewheel, QRm+ bearings

**1420 g pair > 600 g front / 820 g rear**

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### Crossmax ST Disc

**Innovative and reliable, the Crossmax ST Disc is a proven reference**

Lighter and tougher. The Crossmax ST offers more responsiveness, with a low inertia thanks to its fully ISM machined rim (ISM). Bold white graphics highlight the amazing performance of this perfect “real” mountain bike wheelset: 9/15 convertible front hub. Also available in 20mm and Lefty version.

- **Cross-country responsiveness available for Cross-mountain**
  - Less inertia: ISM machining
  - Optimized energy transfer: Isopulse, UST
- **Tough as ever**
  - Rim resistance: Mavic alloy, Fore drilling, SUP welding
  - Hub quality: QRm+ bearings
- **An appealing look that fits any bike**
  - Black and white components
  - Black white graphics

**1615 g pair > 735 g front / 880 g rear**

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C29ssmax
The reference Cross-mountain wheel smartly adapted to 29"
The C29ssmax uses ISM machining technology to deliver the lowest inertia of any 29" wheel on the market while maintaining Crossmax stiffness and durability. 9/15 convertible front hub.
- Crossmax proven responsiveness available for 29ers
  - Less inertia: ISM machining
  - Optimized energy transfer: Isopulse, UST
  - Better steering: optimized dish
- The Mavic resistance for 29ers
  - Rim resistance: Mxatal alloy, Fore drilling, SUP welding
  - Hub quality: FTS-X freewheel, QRM+ bearings
- Ride different!
  - Be part of the 29er tribe
  - Frog graphics

1750 g pair > 815 g front / 935 g rear

Crosstrail Disc
Packed with high end features, the Crosstrail is lighter than ever
High end technologies and features have made the Crosstrail one of the most high performance MTB wheelset in its category. With now 150 g less on the scale and a distinctive graphic approach, this new version is even more appealing and can easily compete with higher end wheels.
- **Lighter**
  - New rim extrusion: optimized ISM saves another 25 grams
  - New front hub design 50 grams lighter
- **More responsive**
  - Less inertia and more stiffness: ISM machining on asymmetrical rim
  - Better grip and increased control: UST tubeless improved steering: 15mm compatible front wheel
- **High end technologies - High end look**
  - Mxatal, Fore, SUP, ISM, QRM, UST, Straight pull bladed spokes
  - New black and silver look: double anodization, alloy brushed stickers

1685 g pair > 760 g front / 925 g rear

Crossride Disc
The access to the Mavic Mountain Bike performance and identity
Entry level at Mavic always means quality, efficiency and reliability. Completely endorsed by the Crossride - incredible value! A specific version of the front wheel makes it compatible with 15mm forks. New consistent graphic approach.
- **Access to the Mavic quality**
  - Reinforced rims: H2 compression
  - Hub quality: FTS-X freewheel, QRM bearings
  - Resistant straight spokes
- **Access to the Mavic efficiency**
  - Optimized component design
  - 15mm version down to 1850 grams
- **Access to the Mavic identity**
  - New large and visible graphics
  - Straight pull bladed spokes

1900 g pair > 880 g front / 1020 g rear

Crossride UB/Disc
The access to the Mavic Mountain Bike performance and identity
Entry level at Mavic always means quality, efficiency and reliability. Completely endorsed by the Crossride - an incredible value! New consistent graphic approach.
- **Access to the Mavic quality**
  - Reinforced rims: H2 compression
  - Hub quality: FTS-X freewheel, QRM bearings
  - Resistant straight spokes
- **Access to the Mavic efficiency**
  - Optimized component design
  - Only 1940 grams, with dual braking compatibility
- **Dual braking compatibility**
  - Disc brake compatible hubs: CL with 6Bolts adapter
  - Rim braking surface: UB Control

1940 g pair > 900 g front / 1040 g rear
Crossride UB

The access to the Mavic mountain bike performance for V-brakes and identity

Entry level at Mavic always means quality, efficiency and reliability. Completely endorsed by the Crossride - an incredible value! Specific hubs and rims make it the lightest entry level mountain bike wheelset. New consistent graphic approach.

- **Access to the Mavic quality**
  - Reinforced rims: H2 compression
  - Hub quality: FTS-X freewheel, QRM bearings
  - Resistant straight spokes

- **Access to the Mavic efficiency**
  - Optimized component design
  - Only 1700 grams for an entry level wheelset

- **Access to the new Mavic identity**
  - New large and visible graphics
  - Straight pull bladed spokes

**1700 g pair > 780 g front / 920 g rear**

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Crossmax SX

The reference in Enduro wheels, responsive, efficient and reliable

The dynamic performances of the Crossmax SX enable to ride efficiently on both sides of the mountains. Extremely low weight and inertia at only 1755 grams is achieved by the ISM machining. The ITS-4 free-wheel delivers instant engagement and transfer of pedaling energy.

- **The most responsive Enduro wheelset**
  - Less inertia: ISM machining
  - Instant engagement: ITS-4 freewheel
  - Better grip and control: UST

- **Featherlight Enduro wheel**
  - Lighter rim: ISM machining
  - Very light components: Zircal spokes, ITS-4, freewheel system (alloy body)

- **Trust Mavic reliability for the most demanding use**
  - Rim resistance: Maxtal alloy, Fore drilling, SUP welding
  - Hub quality: QRM+

**1755 g pair > 825 g front / 930 g rear**

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Crossline

A full on Enduro program at a fraction of the price

Packed with features, the Crossline is for those seeking for a budget true Enduro/ freeride performance. Light and responsive thanks to the ITS-4 freewheel, this wheelset will let you choose your lines even on the most remote singletracks.

- **Trust Mavic reliability for the most demanding use**
  - Rim resistance: tough 21mm wide
  - Hub quality: QRM+
  - Spoking quality: 28 straight steel spokes, Self-lock

- **This Enduro wheel is also efficient**
  - Lightweight alloy rims and hubs
  - Freewheel system with alloy body: ITS-4

- **Style and compatibility**
  - Consistent Enduro graphic approach
  - Wide range front and rear compatibility

**2055 g pair > 970 g front / 1085 g rear**
Deemax Ultimate

The most lightweight and responsive downhill racing wheel available

Developed with our world cup athletes, this exclusive Deemax is the first pure downhill racing wheelset below 2 kilos. Extremely light rims and double butted bladed spokes provide you even more control to speed you towards the finish line. 12x150 only.

- Ultra light downhill wheelset
  Light rim: 27mm, ISM machining (central spine)
  Ultra-light components: ITS-4, ultra-light spokes

- Ultimate responsiveness and improved vertical compliance
  Less inertia: ISM machining
  Ultra-light double butted spokes
  Instant engagement: ITS-4 freewheel

- Developed with and for DH worldcup racers
  THE yellow Deemax
  Increased vertical compliance
  Better control: 20mm front hub, 12mm rear thru axle

1965 g pair > 910 g front / 1055 g rear

Deemax

THE reference wheelset for Extreme mountain biking

Performance in DH and Extreme freeride is a subtle compromise between strength and weight, lateral stiffness and vertical compliance, stability and maneuverability. The Deemax finds the sweet spot on all of those and provides you with a sharp edge on your toughest rides. 9/12x135 or 12x150 version.

- The lightest Extrem mountain bike wheelset
  A light rim: ISM machining (central spine)
  Light components: ITS-4 (alloy body), double butted spokes

- Highly responsive
  Less inertia: ISM machining
  Ultra-light double butted spokes
  Instant engagement: ITS-4 freewheel

- The most resistant
  Rim and spoking resistance: Maxtal, Fore drilling, SUP welding, straight pull spokes, SRS
  QRM+ bearings

2160 g pair > 1010 g front / 1150 g rear
1. **CXP 33**
Aerodynamic and high performance
Thanks to its 23 mm aero shaped profile, CXP 33 slip through the air, while its Mavic alloy keeps its weight low. SUP welded and prized, CXP 33 is also very strong and durable.
Weight Ø 700: 470 g / Ø 650: 432 g

2. **CXP 22**
Aerodynamics within everybody's reach
The aerodynamic CXP 22 gets a new pinned join rim extrusion and a new impactfull graphic approach. Available with or without eyelets, it satisfies the most meticulous needs.
Weight: 510 g

3. **Reflex**
Extremely light, the best road race tubular rim on the market
Reflex bring Mavic's decade of lightweight tubular rim experience into the new millennium with modern technologies. It features all Mavic high end technologies: SUP, Maxtal, UB Control, CD...
Weight: 360 g

4. **Open Pro**
The reference rim for high performance wheel building
Open Pro is the latest version of Mavic «Open» rims, and as such is the most advanced evolution. Optimised up to the limit of material potential, Open Pro is probably the best road rim available.
Weight Ø 700: 435 g / Ø 650: 390 g

5. **Open Sport**
Mavic's entry level classic rim
As a proud descendent of MA2, MA40 et MA3, Open Sport is the perfect blend of what have made Mavic's success on rim. It is the perfect balance of durability, weight and price.
Weight: 400 g

6. **A 719**
Bombproof and high endurance
Featuring the most reknown Mavic technologies, A 719 is the benchmark rim on the trekking and touring market (All Road). SUP welded, wide, UB Control machined braking surface, you can rely on its endurance to accumulate kilometers in the roughest road conditions.
Weight: 565 g

7. **A 317 Disc**
Economic and bombproof, for bikes with disc brakes
A 317 Disc is one of the few 700C rim on the market, especialy designed to withstand the stress of disc brake. The result is a solid rim, featuring double eyelets, at a particularly low weight.
Weight: 540 g

8. **A 319**
Mavic's mid level all road rim
Featuring high quality 6106 aloy and double eyelet, this 25 mm wide rim is perfectly adapted to today's trekkers and tourers. It is strong, durable and allows the use of tires up to 50 mm.
Weight: 595 g

9. **A 119**
The best value for money on the market
This pin joint rim has been CAD optimised to offer the best quality/price ratio. Its external wear indicator makes it reassuring for all those who discover the world of cycling.
Weight: 540 g

Color key
- Ceramic
- CD
- Black
- Silver
MOUNTAIN BIKE
CROSS-MOUNTAIN

16. XM 317 Disc
The go anywhere disc rim
Made with the finest 6106 aluminum alloy, eyeleted for more durability, solidly pin joined and especially designed to withstand the stress of disc brakes, XM 317 Disc will bring you anywhere.
Weight: 445 g

17. EN 321 Disc
The reference rim in the Enduro segment
28 mm wide, SUP welded, eyeleted and made from the finest 6106 alloy, EN 321 Disc is a disc specific rim, especially designed for Enduro riding.
Weight: 540 g

18. XM 117 Disc
The best value for money on the market
CAD designed rim profile with the constraint of disc brake in mind, XM 117 Disc is one of the most qualitative entry level rim on the market.
Weight: 457 g

19. XM 117 Disc
The best value for money on the market
CAD designed rim profile, UB Control braking surface,XM 117 is one of the most qualitative entry level rim on the market.
Weight: 440 g

20. XM 819 Disc
The reference UST Tubeless disc rim
XM 819 Disc is the only true UST rim available on the market. Stiff and durable, yet light, topped with the added benefit of riding tubeless.
Weight: 450 g

21. XM 317 Disc
The go anywhere disc rim
Wide enough to allow the use of large volume tire, but reasonably light, XM 719 Disc answers all of the epic mountain biker’s need.
Weight: 460 g

22. XM 719 Disc
The ideal rim for 29” amateurs
Wide enough to allow the use of large volume tire, but reasonably light, TN 719 Disc answers all of the 29er epic mountain biker’s need.
Weight: 510 g

23. XM 117 Disc
The all-round rim par excellence
Wide enough to allow the use of large volume tire, but reasonably light, XM 117 Disc answers all of the epic mountain biker’s need.
Weight: 457 g

24. XM 719 Disc
The all-round rim par excellence
Wide enough to allow the use of large volume tire, but reasonably light, XM 719 Disc answers all of the epic mountain biker’s need.
Weight: 460 g

25. XM 317 Disc
The ideal rim for the mountain
Wide enough to allow the use of large volume tire, but reasonably light, XM 719 Disc answers all of the epic mountain biker’s need.
Weight: 457 g

26. XM 819 Disc
The reference UST Tubeless disc rim
XM 819 Disc is the only true UST rim available on the market. Stiff and durable, yet light, topped with the added benefit of riding tubeless.
Weight: 450 g
Ease of use

**Ride’n plug**
**USB computer and Wintech software**

Easy transfer of your data: the integrated Wintech computer family gets a new housing that allows the cyclist to USB-plug it directly into his PC
- Plug to upload: customize your Wintech displays and make all the necessary settings
- Plug to download: transfer easily your ride data to your PC and analyse your performance

**Customize**
**Wintech software**

Control your screen displays

The Wintech Manager Software let you customize each line on each screen of the Wintech computer
- Create your own screen
- Watch your most preferred datas always

**Analyze**
**Wintech software**

Detail your rides and monitor them through the seasons

The Wintech Manager Software downloads your rides from your Wintech computer and automatically stores them conveniently
- Get a detailed analyze of your rides: elevation, HR, distance, statistics
- Monitor your improvement through the weeks, months and years to adapt your training plan

**Accuracy**
**Win technology**

Keep control thanks to reliable data: our 2.4 Ghz high frequency provides an even more reliable transmission, even when the sensor is far from the computer
- Reliable, no possible breakdown, no possible interference, thanks to the digitally encoded waves
- A patented Mavic® technology for a perfect data transmission between elements
## Wintech USB Ultimate
The Wintech with the most comprehensive list of functions, including PC connexion
Wintech Ultimate delivers a comprehensive list of cycling, elevation and heart rate data, now also including the HR graph. The integrated USB plug enables a fast and reliable data exchange with your PC for a detailed review. Plus the freedom to choose one or more of our 3 speed sensors.

<table>
<thead>
<tr>
<th>Feature</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhaustive functions to keep control over your rides</td>
<td>7 altimeter functions, 5 HR monitor functions, All Wintech USB speed and distance functions</td>
</tr>
<tr>
<td>PC download via USB plug of the computer housing</td>
<td>Upload: customize displays and ease settings, Download: transfer data and analyze performance, including HR graph</td>
</tr>
<tr>
<td>Modularity</td>
<td>Chose among our 3 speed sensors, Use up to 3 speed sensors with the same computer</td>
</tr>
</tbody>
</table>

## Wintech USB HR
Heart rate and cycling information, your choice of speed sensor and direct connection to your PC
The accurate 2.4 GHz cycling computer that integrates reliable and useful heart rate information now allows the display of a HR graph. All those precious information are easily downloadable to your PC for a detailed review. Plus the freedom to choose one or more of our 3 speed sensors.

<table>
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<th>Feature</th>
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</thead>
<tbody>
<tr>
<td>A precise follow up for the training addicts</td>
<td>Useful heart rate monitor functions, Plus all speed and distance functions of the Wintech USB</td>
</tr>
<tr>
<td>PC download via USB plug of the computer housing</td>
<td>Upload: customize displays and ease settings, Download: transfer data and analyze performance, including HR graph</td>
</tr>
<tr>
<td>Modularity</td>
<td>Chose among our 3 speed sensors, Use up to 3 speed sensors with the same computer</td>
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</table>

## Wintech USB Alti
Altimeter and cycling information, your choice of speed sensor and direct connection to your PC
The accurate 2.4 GHz cycling computer that integrates reliable and useful elevation information. All this precious information is easily downloadable to your PC for analysis and storage. Plus the freedom to choose one or more of our 3 speed sensors.

<table>
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<th>Feature</th>
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<tbody>
<tr>
<td>For the climbing addicts</td>
<td>All useful altimeter functions, Plus all speed and distance functions of the Wintech USB</td>
</tr>
<tr>
<td>PC download via USB plug of the computer housing</td>
<td>Upload: customize displays and ease settings, Download: transfer data and analyze performance</td>
</tr>
<tr>
<td>Modularity</td>
<td>Chose among 3 speed sensors type, Use up to 3 speed sensors with the same computer</td>
</tr>
</tbody>
</table>

## Wintech USB
Just the necessary information, your choice of speed sensor and direct connection to your PC
The integrated USB plug enables you to download your ride data to your PC and analyze them, and to customize and set up your computer. With just the necessary functions, an accurate 2.4 GHz transmission and the freedom to choose among our 3 types of speed sensor, the Wintech USB is easy to use.

<table>
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<tr>
<th>Feature</th>
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<tbody>
<tr>
<td>The fundamental information</td>
<td>Up to 12 basic functions, Records up to 9 lap times, Wireless cadence (option)</td>
</tr>
<tr>
<td>PC download via USB plug of the computer housing</td>
<td>Upload: customize displays and ease settings, Download: transfer data and analyze performance</td>
</tr>
<tr>
<td>Modularity</td>
<td>Chose among 3 speed sensors type, Use up to 3 speed sensors with the same computer</td>
</tr>
</tbody>
</table>

## Wintech E-Bolt
Cycling computer featuring ingenious speed sensor integrated into the quick release locknut
2.4 GHz digitally coded bike computer with an ingenious speed sensor integrated into the quick release locking bolt, making it compatible with all bikes. Discreet and easy to fit, it has all the speed and distance fundamental functions of a cycling computer.

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<td>The fundamental information</td>
<td>Up to 12 basic functions, Records up to 9 lap times, Wireless cadence (option)</td>
</tr>
<tr>
<td>Neat bike</td>
<td>Fully integrated speed sensor, no added parts to the bike, Wireless: no wire along the bike</td>
</tr>
<tr>
<td>Reliability</td>
<td>Wireless digital 2.4 GHz data transmission: WIN</td>
</tr>
</tbody>
</table>

## Wintech FS
2.4 GHz digital wireless transmission made affordable
Affordable, the Wintech FS brings down the advantages of the 2.4 GHz digital data transmission to a larger audience, and offers all the speed and distance fundamental functions of a cycling computer. The new fork sensor pad makes it even more stable, whatever the fork shape.

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<td>The fundamental information</td>
<td>12 basic functions, Records up to 9 lap times, Wireless cadence (option)</td>
</tr>
<tr>
<td>Enhanced ergonomics</td>
<td>New pad sensor improves stability on any fork shape, Only 2 zip ties</td>
</tr>
<tr>
<td>Reliability</td>
<td>Wireless digital 2.4 GHz data transmission: WIN</td>
</tr>
</tbody>
</table>
E-Skewer Sensor

**Speed sensor integrated into the lever of the front BR601 Quick Release**

The E-Skewer is a quick release in the lever of which a bike computer wireless speed sensor is integrated. It makes its installation and adjustment much easier. The bike stays neat with no added appendix to the fork or frame. Included into the Mavic high closure efficiency quick release.

- **Neat bike**
  - Fully integrated speed sensor: no added parts to the fork
  - Wireless: no wire along the fork

- **The Easiest to install and use speed sensor**
  - Toolfree mounting
  - No zip ties
  - Compatible with any road fork design

- **Reliability**
  - Wireless digital 2.4 GHz data transmission: WIN
  - No possible misadjustment of the sensor

---

E-Bolt Sensor

**Speed sensor integrated into the bolt of a front quick release**

The E-Bolt is a quick release bolt, in which a bike computer wireless speed sensor is integrated. It makes its installation and adjustment much easier. The bike stays neat with no added appendix to the fork or frame. Compatible with any kind of quick release.

- **Neat bike**
  - Fully integrated speed sensor: no added parts to the fork
  - Wireless: no wire along the fork

- **The Easiest to install and use speed sensor**
  - Toolfree mounting
  - No zip ties
  - Compatible with any road fork design

- **Reliability**
  - Wireless digital 2.4 GHz data transmission: WIN
  - No possible misadjustment of the sensor

---

Fork Sensor

**Speed sensor to be fitted to any kind of fork design**

Some fork shapes don’t leave you any other alternatives than a regular fork sensor. The Mavic one is small, easy to install and very stable thanks to its ergonomic plastic pad. It is also highly accurate and reliable thanks to our famous WIN technology, 2.4 GHz digital transmission.

- **Enhanced ergonomics**
  - New pad sensor improves stability on any fork shape
  - Only 2 zip ties

- **Reliability**
  - Wireless digital 2.4 GHz data transmission: WIN

---

Smart Cadence

**Independent pedaling cadence sensor to be fitted on your ankle**

The Smart Cadence is an autonomous pedalling cadence sensor. Thus, you don’t need to install any sensor or magnet on your bike. The tiny sensor is integrated into comfortable stretch fabric that you wear on your ankle, above your sock. This option is compatible with any Wintech computer.

- **Neat bike**
  - Fully integrated cadence sensor: no added parts to the bike
  - Wireless: no wire along the bike

- **Reliability**
  - Wireless digital 2.4 GHz data transmission: WIN
  - No possible misadjustment of the sensor

---

Pedaling Cadence

**Small wireless cadence sensor unit to be fitted on your frame**

The pedaling cadence lets you closely monitor your training with the correct data. This sensor can be fitted to your frame seat tube, downtube or chain stay together with a magnet on your crank or pedal axle. The new plastic pad makes it even more stable, whatever the frame shape.

- **Enhanced ergonomics**
  - New pad sensor improves stability on any frame shape
  - Only 2 zip ties
  - Magnet on the pedal axle

- **Reliability**
  - Wireless digital 2.4 GHz data transmission: WIN

---

Hometrainer Kit

**Check your performance on your home trainer**

Continue to train all year round using constant performance data provided with your Wintech. Fit the home trainer compatible speed sensor to the back of your frame and train through winter. Compatible with all Wintech computers.

- **Easy to fit and unfit**
  - Quick lace tie to easily install and uninstall the sensor
  - Automatic recognition by the computer

- **Reliability**
  - Wireless digital 2.4 GHz data transmission: WIN
PEDALS TECHNOLOGY
Optimal energy transfer

QRM
High efficiency
Mavic only uses high quality sealed cartridge bearings on QRM pedals, to provide high durability and high efficiency
- No specific maintenance, interchangeable
- Low friction and maximum rolling fluidity

ETS
Maximum energy transmission
Energy Transfer System (ETS) insures an optimal interface between bike and rider, thanks to a large cleat/pedal contact area for maximum energy transmission
- Increased contact area between shoe outsole and pedal platform
- Maximum energy transmission

DuraCleat
Durability
Strategically placed wear resistant zones on the road cleat to preserve the locking system and maintain energy transfer over the time
- Cleat durability
- Easier walking
PEDALS

**Race SL TI**
Lightweight high performance pedal that offers excellent durability, power transfer and ease of use.

Whether you are climbing and epic mountain pass or sprinting to a sign on a club ride you will appreciate that your hard earned energy is helping you to accelerate. Titanium axle combined with the low friction of QRM bearings will help you get there first.

- **Lightweight high performance**
  - Titanium 6V axle
  - Carbon reinforced rear plate
  - Carbon reinforced friction plate

- **Low friction + maintenance**
  - Double QRM sealed bearings
  - Additional cartridge needle bearing
  - Even load distribution

- **Easy to use/adjustability**
  - Adjustable release tension (80-200 kg/cm)
  - Optimized cleat/pedal release
  - Option of 0° or 7° angular float DuraCleat cleats

**Race**
High performance race ready pedal
Lightweight performance for road racers that offers real quality to help you push your limits. ETS technology increased pedal to cleat contact area while features like the QRM bearings and the Duracleat let you focus on your racing.

- **Lightweight construction**
  - Composite rear plate
  - Composite friction plate
  - Full aluminium body

- **Easy to use/adjustability**
  - Adjustable release tension (80-200 kg/cm)
  - Optimized cleat/pedal release
  - Option of 0° or 7° angular float DuraCleat cleats

- **Tough reliability**
  - Sealed QRM cartridge bearing
  - High precision polished CroMoly axle

**Avenir**
High value road pedal for weight and budget conscious riders
Reliable performance offering energy transmission and value. High efficiency with many of the high end features will make the Avenir perform.

- **Lightweight performance and value**
  - Composite rear plate
  - Composite friction plate

- **Easy to use/adjustability**
  - Adjustable release tension (80-200 kg/cm)
  - Optimized cleat/pedal release
  - Option of 0° or 7° angular float DuraCleat cleats

- **Quality and value**
  - QRM sealed cartridge bearing
  - Precision CroMoly axle

**Sprint**
High value road pedal for weight and budget conscious riders
Reliable performance offering energy transmission and value. High efficiency with many of the high end features will make the Avenir perform.

- **Lightweight performance and value**
  - Composite rear plate
  - Composite friction plate

- **Easy to use/adjustability**
  - Adjustable release tension (80-200 kg/cm)
  - Optimized cleat/pedal release
  - Option of 0° or 7° angular float DuraCleat cleats

**Road Cleat 0°**
Replacement cleat with minimal float

- **Road Cleat 7°**
Replacement cleat with a high degree of float
ACCESSORIES

1. Road Quick Release
   High closure efficiency road quick releases

2. MTB Quick Release
   High closure efficiency MTB quick releases

3. Road Wheelbag
   Road wheelbag to carry and protect your wheel

4. MTB Wheelbag
   MTB wheelbag to carry and protect your wheel

5. Tracomp Spoke Removable Magnet
   Computer magnet especially designed for Tracomp spokes

6. 9mm Fork Support For 20mm Axle
   Reducers to turn dual compatible front hubs to quick release

7. Flat Carbon Spoke Magnet
   Computer magnet especially designed for flat carbone spokes

8. Handlebar Tape
   Mavic comfortable handlebar tape

9. Dismountable UST valve
   UST valve 100% compatible with Mavic UST rims

10. Cosmic Carbone Rim Stickers
    Cosmic Carbone rim stickers to customize your wheel

11. Extreme MTB Bolt On Axle
    Axle and screws to securely fix Extreme MTB wheel to frame

12. X-12 Adapters (OLD 142mm)
    Adapters to transform ITS4 hubs to the X-12 standard

13. Axle Reducers 12mm>10mm
    Reducers to make ITS4 hubs compatible with 10mm thru axles

14. Track Cog Locknut
    Steel nut to lock cog on a track wheel

15. Carbon Rim Brake Pads
    Specific pads for efficient braking on carbon rims

16. Brake Pads For Exalith® Rim
    Specific pads for efficient braking on Exalith® rims

17. Abrasive Rubber
    Clean braking surfaces to enhance braking performance

18. Spare Parts Kit
    Ease your life at workshop with those useful spare parts

19. Spoke Kit
    Make sure you have every single Mavic spoke available
TYRES

Yksion K10
Featuring a tubular casing technology, the Yksion Comp Kevlar is the perfect LINK for competition

Yksion tubulars top features have been smartly adapted to this clincher version: 290TPI Polycotton and Kevlar casing, high rolling efficiency compound, dual compound grip and nylon protection. Result: the performance of a high tech tubular with the convenience of a clincher.

- High efficiency
- Superior grip where it matters
- Optimized punctures resistance

Size: 23-622 (700x23c)
Weight: 225 g

Yksion GripLink Tubular 23
The right Link when grip makes the difference

Rely on the Yksion GripLink Tubular features to make the difference in cornering. It has been thought to match with the performance of Mavic front tubular wheel-tyre systems. Associated to Yksion PowerLink Tubular on the rear, this is the perfect wheel-tyre set to cross the finish line as a winner.

- Superior grip where it matters
- Low rolling resistance
- Optimized punctures and cuts resistance

Size: 28
Weight: 290 g

Yksion PowerLink Tubular 23
The right Link when responsiveness makes the difference

Rely on the Yksion PowerLink Tubular features to make the difference in accelerations. It has been thought to match with the performance of Mavic rear tubular wheel-tyre systems. Associated to Yksion GripLink Tubular on the front, this is the perfect wheel-tyre set to cross the finish line as a winner.

- Pro's responsiveness
- Safe cornering
- Optimized punctures and cuts resistance

Size: 28
Weight: 290 g

Yksion GripLink 23
The right Link when grip makes the difference

Rely on the Yksion GripLink features to make the difference in cornering. It has been thought to match with the performance of Mavic R-Sys, Cosmic and Ksyrium clincher wheel-tyre systems. Associated to Yksion PowerLink on the rear, you get a safe, responsive and durable wheel-tyre set.

- Superior grip where it matters
- Low rolling resistance
- High punctures and cuts resistance

Size: 23-622 (700x23c)
Weight: 215 g

Yksion Powerlink 23
The right Link when responsiveness makes the difference

Rely on the Yksion PowerLink features to make the difference in accelerations. It has been thought to match with the performance of Mavic R-Sys, Cosmic and Ksyrium clincher wheel-tyre systems. Associated to Yksion GripLink on the front, you get a responsive, safe and durable wheel-tyre set.

- Highly responsive
- Safe cornering
- High punctures and cuts resistance

Size: 23-622 (700x23c)
Weight: 215 g

Alloy Valve Extension
60mm removable alloy extension to inflate all Mavic road wheel-tyre systems. Thanks to a specific machining, the top end of the extension enables to open and close the valve before using it to plug the pump.

- Butyl 1mm
- Presta 48mm Black valve
- 21-25 / 622-630 (700x21-25c)

Size: 21-25 / 622-630
Weight: 97 g

Road Tube Presta 48mm
1mm thick standard innertube with 48mm valve

- Butyl 1mm
- Presta 48mm Black valve
- 21-25 / 622-630 (700x21-25c)

Size: 21-25 / 622-630
Weight: 97 g
# Wheels

## Rim

<table>
<thead>
<tr>
<th>Technology</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maxtal</strong></td>
<td>Exclusive to Mavic. An aluminum alloy that is 30% more resistant than a 6106 alloy, for lighter and stronger rims.</td>
</tr>
<tr>
<td><strong>SUP™</strong></td>
<td>Soudé Usiné Process. After bending, the rim joint is arc welded. The welded seam is then milled for a smooth finish. A welded and milled rim joint is extremely strong, eliminates shuddering when braking, and offers superior wheel balance.</td>
</tr>
</tbody>
</table>
| **FORE™** | Only one of the 2 rim wall is "drilled":  
- The rim is 4 times more resistant to fatigue stress.  
- 20% increase in the rim rigidity to transfer all of your energy to the ground. |
| **UST™** | Universal Standard for Tubeless. A better grip for tighter control, no more tube, no more rim tape: sounds to good to be true. The UST concept eliminates heat, friction and guarantees a slow deflating rate if punctured. |
| **UB Control™** | Usiné Brut Control. The braking surfaces are milled to improve braking friction and eliminate shuddering. |
| **CD** | Couche Dure. This process creates a micro surface hardeness of the rim. It slows down braking wear and improves its durability. |
| **Ceramic 2™** | A thermic shield, harder than aluminum, coats the rim walls.  
- Reduction of braking distances especially in the rain.  
- Greater resistance to wear through braking. |
| **H2** | Hammer Hardening. Local strengthenining of the rim in the area where the spokes exert the greatest stress. This improves rim's life expectancy and resistance to micro cracking. |
| **Exalith** | Mavic exclusive treatment for aluminum alloy that reinforces the rim while enabling to make it thinner. To be used with special Mavic Exalith brake pads (delivered with the concerned wheels). |
| **ISM** | Inter Spoke Milling Lighter rim and equal rigidity is the magic equation to reduce inertia and to free extra power for climbing. A Mavic patented exclusive concept (US 6 402 256). |
| **ISM3D** | Inter Spoke Milling 3 Dimension. ISM3D pushes the envelope of ISM one step further by not only machining the lower bridge of the rim between each spoke holes, but also its sidewalls. Machined sidewalls save even more weight and inertia to boost your acceleration and enhance climbing performance. |

## Lacing and Spoke

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td><strong>ISOPulse™</strong></td>
<td>This spoke lacing design and wheel building brings better wheel stabiility and a crystal clear transmission of energy thanks to a better spoke tension balance between left and right flanges.</td>
</tr>
<tr>
<td><strong>Zical™</strong></td>
<td>A highly resistant and and lightweight aluminum alloy for spokes.</td>
</tr>
<tr>
<td><strong>Self Lock</strong></td>
<td>The special shape of the spoke end, on the thread, makes it impossible to loosen. The spokes stays tightly screwed into the nipple, no tension loss is occurring. As a benefit, the wheel keeps its original roundness for a long time and does not get out of true.</td>
</tr>
</tbody>
</table>
| **SRS** | Spoke Retention System. The hub shell slots special machining makes sure that the spoke head is emprisonned and will not pop out of the hub. The spoke still can travel in the slot, in order to let the wheel absorb some of the terrain obstacles.  
- No Spoke ejection, even under very hard frontal hit.  
- The wheel stays vertically compliant. |
| **TRACOMP™** | Traction Compression. Tracomp carbon fiber spokes works in traction and compression.  
- Under normal loads, wheel deflection is limited by the very high traction resistance of carbon fibers.  
- Under greater loads, where a normal wheel would flex more because of one of its spoke loosening, Tracomp spokes enter into compression and keep supporting the rim, preventing any further wheel deflection. |
| **R2R** | Rim to Rim. R2R cuts spoke count by 2, resulting in only 2 spoke ends instead of 4.  
- Better aerodynamics: smooth integration of the spoke to the hub flanges.  
- Lighter: carbon spokes are lighter than alloy ones.  
- Stiffer: unidirectional carbon fiber spokes have a greater resistance to traction.  
- Stronger: since R2R reduces the number of spoke in half, it cuts the chances of spoke breakage as well. |
**HUB**

**QRM™** Qualité de Roulements Mavic. Mavic only uses high quality sealed cartridge bearings. On QRM wheels, they provide high durability thanks to double sealing (2RS or LLU) as well as high efficiency thanks to C3 internal clearance (low play, tight tolerances).

**QRM+™** Qualité de Roulements Mavic +. Our most demanding level. Those cartridge bearings are of course double sealed with C3 internal clearance, and topped with a micro-adjustability system, allowing you to quickly adjust your wheels according to performance goals: precision +“free+” adjustment for maximum fluidity, or perfect high precision setting for all-weather rides.

**QRM SL™** Qualité de Roulements Mavic Super Light. The super light bearings are designed having in mind the QRM strict specifications. The matching hub axles are machined within extremely narrow tolerances, then one by one adjusted with very high precision when assembled. As a result, QRMSL hubs are up to 12% lighter that QRM+ ones.

**FTS-L** Force Transfer System Light. Reinforcement of key transmission components; the contact area between the pawl and the hub body is reinforced by 2 stainless steel inserts, which allows the use of a 100% aluminum hub body.
- The entire hub is extremely lightweight and strong.
- Greater efficiency due to better transmission of efforts on the entire wheel.

**FTS-X** Force Transfer System X. A further improved FTS free wheel system to meet the demand of intensive MTB riding as closely as possible; strengthened pawls, self locking axle end screw to make the freewheel mechanism even more hard wearing and a new seal halving friction torque.

**ITS4** Instant Transfer System 4. 4 pawls, working 2 by 2 provide a very fast engagement. 2 large cartridge bearings ensure the smoothest rotation of the hub body.
- Engagement reduced by 60%, ensuring instant energy transmission.
- Full compatibility with all retention systems.
- 20g lighter thanks to a lightweight freewheel body in alloy.

**TYRE**

**GripLink** A good tyre, whether a clincher or a tubular, must fully liberate the wheel’s potential and even enhance its performance. Therefore, the expected benefits of the front tyre are different from the rear one. GripLink clinchers and tubulars are optimized for front use. Ride the Right Link!

**PowerLink** A good tyre, whether a clincher or a tubular, must fully liberate the wheel’s potential and even enhance its performance. Therefore, the expected benefits of the front tyre are different from the rear one. PowerLink clinchers and tubulars are optimized for rear use. Ride the Right Link!

**Pedals**

**QRM™** Qualité de Roulements Mavic. Mavic only uses high quality sealed cartridge bearings. On QRM pedals, they provide high durability and high efficiency.

**ETS** Energy Transfer System (ETS) for optimal rider/ bike interface. Mavic pedals feature wide cleat/pedal contact area for maximum energy transmission.

**DURACLEAT** Strategically placed wear resistant cleat zones to preserve the locking system and maintain energy transfer over time.

**Computers**

**WIN** Wireless Integrated Network. A Mavic exclusive technology using a 2.4 GHz high frequency digitally coded signal. It guarantees the most reliable data transmission as well as a very easy communication of Wintech computers with any kind of available sensors: up to 2 speed sensor types, the home trainer speed sensor and our 2 types of cadence sensor.
**Maintenance tools specific to each wheel are supplied in the packaging.**

**Deemax**

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<thead>
<tr>
<th>Model Name</th>
<th>Weight Rear</th>
<th>Material</th>
<th>Height / Width</th>
<th>Joint</th>
<th>Drilling</th>
<th>Eyeplets</th>
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* The weights stated are without quick-release skewers, without rim tape and without valves for 650B wheels. The weights of road wheels are those for 700C and 571x23c versions (12 28” to the rear wheel for M10 versions).

** Maintenance tools specific to each wheel are supplied in the packaging.**
## TECHNICAL RECAP

### SPEED, DISTANCE AND GENERIC FUNCTIONS

- Current speed (Km/h or m/h)
- Average speed
- Maximum Speed
- Tendency indicator
- Daily distance (km or m)
- Total accumulated distance
- Total accumulated distance by bike (1, 2 and Home Trainer)
- Clock
- Automatic stopwatch
- Up to 9 lap times
- Pedaling cadence (Option)

### ALTIMETER FUNCTIONS

- Current altitude (m or ft)
- Maximum and minimum ride altitude
- Actual cumulated vertical gain
- Climbing speed
- Slope (in %)
- Home altitude memory
- Temperature

### HEART RATE FUNCTIONS

- Instant heart rate (in BPM or % of FC max)
- Average heart rate
- Maximum heart rate
- Programmable workzone

### FEATURES

- WIN Wireless digital high frequency data transmission, 2.4 GHz
- Your choice of speed sensor (to be ordered separately)
- Usable on 2 different bikes + Home Trainer
- Automatic detection of speed sensor and associated bike (1, 2 or Home Trainer)
- CR 2430 battery, replaceable by user
- CR 2032 battery, replaceable by user
- Center mount in front or above the stem

### DATA TRANSFER

- USB plug integrated into the Wintech computer housing
- Wintech Manager software included
- Data upload: user’s settings
- Data download: ride information and statistic

### DELIVERED WITH

- Wintech Manager on CD-Rom
- HR Belt
- Computer mount
- Magnet
- E-Bolt sensor
- E-Skewer
- Fork Sensor
- Printed complete user guide
- Printed quick start guide
- Complete User Guide on CD-Rom
- USB wire extension
- Extra magnets for spacing adjustment
- Plastic pad for perfect stability

### AVAILABLE OPTIONS

- Cadence sensor
- Smart cadence sensor
- Extra sensor and accessories for 2nd bike
- Home Trainer sensor (for rear wheel, easily removable)

### TECHNOLOGIES

- WIN
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**TYRE FEATURES**

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## MTB WHEELS COMPATIBILITY

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