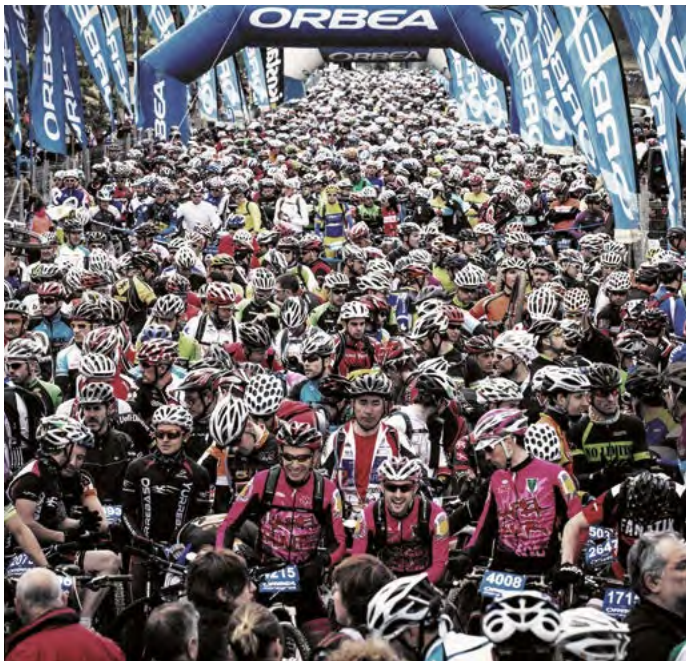
BOOK

ORBEA

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BY **JON FERNÁNDEZ.**

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INTRODUCTION

YESTERDAY, TODAY AND TOMORROW.

Since its inception more than 170 years ago, Orbea has been associated with an indefatigable quest: adaptation and self-improvement.

These traits have brought us to where we are now, earning us international renown and presence in more than 65 countries. This could only be possible with the joint efforts and trust of the people who make Orbea, and with a series of values that have created unity, strength and capability.

Our catalog reflects this as a tool where we share our personality, our know-how and solutions – a tool that shows our love of sports and our eagerness to be what we imagined we could be. This catalog reflects our passion in providing innovative global solutions and lifetime warranty as proof that we know we're offering top-quality products.

At Orbea we create experiences for you to feel, enjoy, discover and do better. But, above all, we want to be by your side, experiencing with you and meeting your needs in order to improve and always give you the best.



JON FERNÁNDEZ.
Orbea General Manager.




ORBEA

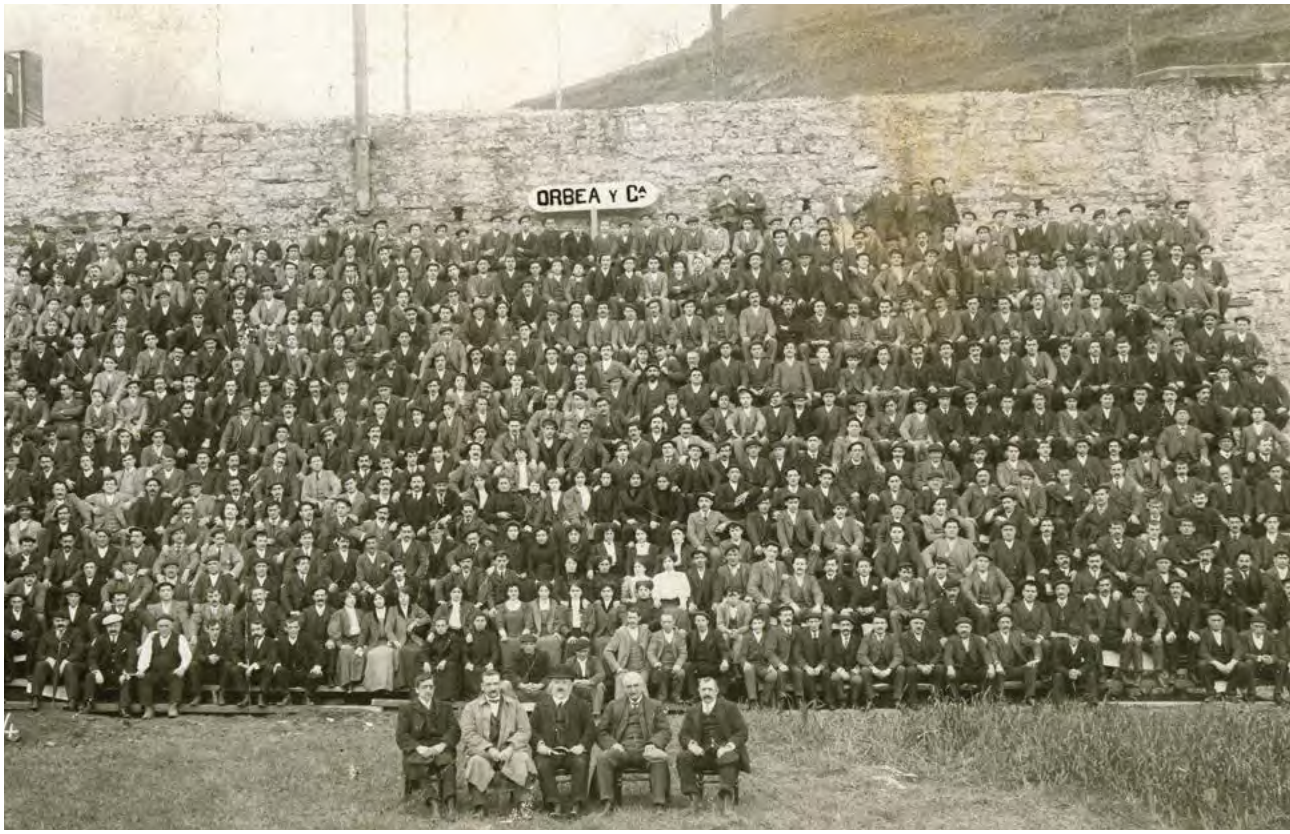

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ABOUT ORBEA

HISTORY

ORIGINS



Orbea was established in 1840 as a family-run company making rlvers, cartridge guns and pistols. With the outbreak of World War I, the company experienced growth. When the war ended, the firm changed business, focusing on the manufacture of precision mechanics-based products: prams, school desks and, finally, bicycles, producing as many as 50,000 a year.

A few years later, the economic crisis brought Orbea to the brink of bankruptcy. This would've meant doing away with the firm and with the jobs of 1,500 families. Showing once again that they weren't ready to give up, the workers talked the owner into transferring the plant to them. The company became a cooperative, joining the Mondragon Cooperative Group in 1971. This way, they managed to keep their jobs and a brand with an already long history.

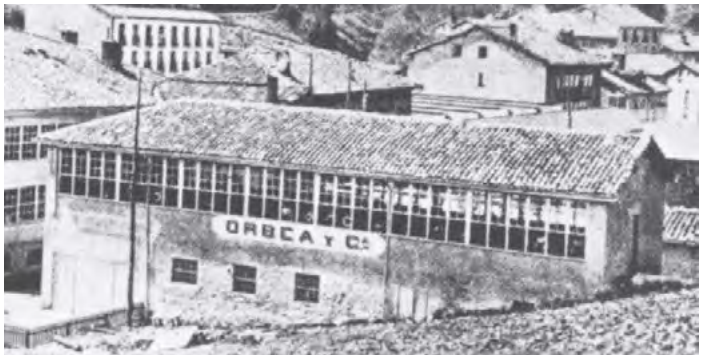
In 1975, the company moved its headquarters to their current location in Mallabia. At the new facilities, Orbea entertained the idea to have a professional elite cycling team, whose future members would include Perico Delgado – winner of the Vuelta a España 1985 – or Marino Lejarreta. Although Orbea has always been associated with racing, it was only in 1982 that it became the sponsor of a road cycling team.

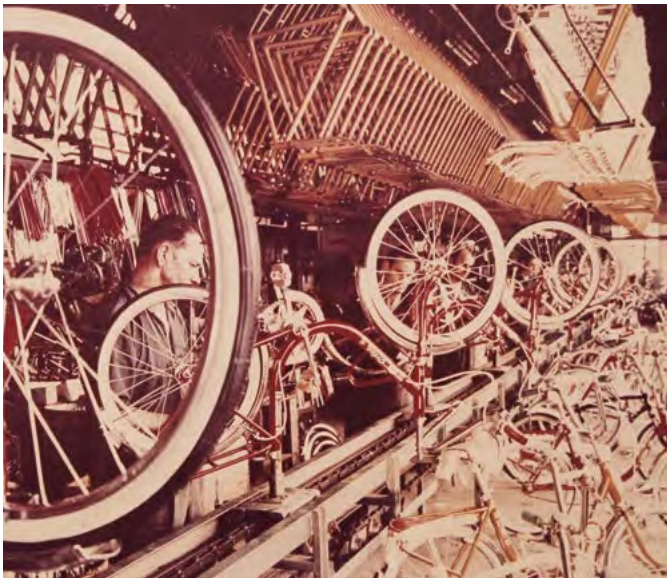
Later, with the emergence of mountain biking, Orbea launched an initiative that would change the brand and the industry for good: its first MTB team, led by Jokin Mujika, who won the Spanish Cyclo-Cross Championships in 1994.

With time, Orbea embarked on internationalization, going beyond exclusive sales in Spain, first with exports to France and then with branches in USA, France, Italy, UK, Belgium, Germany, Australia and Portugal. The internationalization strategy was divided into three areas: products, markets and brand. At present, Orbea operates in more than 65 countries, developing and supplying around 250,000 bicycles, thousands of helmets, cycling wear and hydration packs, and planning trips and events.

Since the making of its first bike, Orbea has managed to adapt to the course of history, offering quality products with ever-changing, innovative designs and materials.









Since the creation of its first rlver, Orbea has lved with the times. The constant renewal of products and services led to the birth of Orca, the brand's flagship range, in 2003.

Orca was Orbea's first carbon fiber bicycle. With it, a new era began, not only for the firm but also for the most demanding road cyclists. The Orca combines state-of-the-art technology with innovation and design. The Orca's first victory came with Iban Mayo, who won the queen stage of the Tour de France in Alpe d'Huez riding it. Then, the bicycle won the Eurobike Award, as well as several stages of the Giro d'Italia, the Vuelta a España and lots of races around the world. Without a doubt, the Orca paved the way for success. Today, Orbea is as passionate and enthusiastic as when it first hit the road.
Continuous innovation and development have earned the brand great accolades, like Julien Absalon and Samuel Sánchez's Olympic gold medals in Beijing (MTB and road cycling, respectively) or the Ordu as the fastest triathlon bike in history between the legs of Orbea Orca Tri Team Member Andrew Starykowicz and, before that, Craig Alexander's Ironman Hawaii victories in 2008 and 2009.

This has placed Orbea among the world's leading and most prestigious bike makers. Throughout the years, the brand transformed itself and grew, based on an undeniably successful strategy.

HISTORY



GREAT CYCLISTS

The Orbea cyclists have contributed to the grandeur of a sport in which difficulties, effort and self-improvement go hand in hand. They contributed to the foundations of modern cycling and became the idols of thousands of fans, both children and grown-ups, handing out badges with their favorite riders' faces. Cycling is a sport that puts your heart and mind to the test. In the past, resources were more precarious than they are now: wheels that were inadequate for specific terrain, cycling wear that got too heavy when wet, makeshift feeding stations, troughs to shake the mud off contributed by generous fans…

Commitment and passion were indeed necessary in those early cyclists, men who pedaled hard for their sport to grow. In its early years, cycling was less a sport than an endurance test.

They've been our most loyal users, relying on our brand philosophy and quality. They've supported and encouraged us in our development, always choosing our products. Their lifestyle has changed throughout the years, and so has ours. There came a time when they were no longer happy with just one sport, and so they embraced diversity: challenge, competition, self-improvement. Today, they demand products that deliver unforgettable and unique experiences. They've inspired us, challenged us, moved us to do better, and this makes them the cornerstone of our business.

1930s /

The Montero Brothers/
The surname 'Montero' is associated with the oldest family saga in Spanish cycling. Born in Ávila and raised in Gipuzkoa, the Montero brothers had cycling written in their hearts as children. Ricardo and Luciano, who was six years younger, were both powerful and able cyclists. As members of Real Unión Orbea, they clinched many victories: Circuit de Mainsin, Gran Prueba Eibarresa, Dax, Irún, Luarca, and many others.

Federico Ezquerra/
Bizkaia-born Federico Ezquerra was the first great Basque cyclist. He got as many as 87 victories in 19 seasons, 17 of them with the Orbea team. An outstanding climber, Ezquerra was an Orbea rider from 1934 to 1936, winning small but prestigious races that earned him a place among the big names of world cycling. His most accomplished victory was the Nice-Cannes stage of the Tour de France, on the outbreak of the Spanish Civil War.



1960s-1970s /

Miguel María Lasa aka "LAPA"/
Lasa joined the Orbea team in 1971. During his cycling career, he won 76 races, including six stages in the Vuelta a España, three in the Giro d'Italia and two in the Tour de France. He also got many awards with the Orbea team.



1980s /

Pedro Ruiz Cabestany/
Born in the Basque Country to a Catalan family, Cabestany was a pro from 1984 to 1994, winning 23 races. From 1984 to 1986, he was a member of the Orbea team (Orbea-Danena, Orbea-Gin MG and Seat-Orbea). His most important triumphs included wins at the Vuelta a España and the Tour de France.

Perico Delgado/
Delgado rode with Seat-Orbea in 1985, earning the brand two of its milestones: the overall victory in the Vuelta a España and and the queen stage of the Tour de France, finishing in Luz Ardiden, in the Pyrénées, beating all rivals with the help of teammate Peio Ruiz Cabestany.



1990s (MTB) /

Jokin Mujika/
Mujika took his first steps as a pro with Orbea, after having trained with the team as an amateur rider. In 1988, he won the Euskal Bizikleta (with the climb to Arrate). Then this race became the Tour of the Basque Country. He took part in all three grand tours from 1984 to 1989, always riding an Orbea bike and being part of the Orbea team: Orbea, MG-Orbea, Seat Orbea, Caja Rural-Orbea In 1993, Mujika took up cyclo-cross to great results. In the last part of his career he embraced the recently born MTB, participating in this discipline in the Atlanta Olympic Games in 1996, when he was 22nd.



2000s /

Roberto Laiseka/
When he became a pro in 1994, Laiseka began to wear the shirt of Euskadi (later Euskaltel-Euskadi). In his 30s he stood out as a climber, winning races in the Vuelta a España and the Tour de France. In the former he clinched victory in Luz Ardiden, like Perico Delgado before him and Samuel Sánchez ten years later. He retired in 2007, having been injured in the Giro d'Italia the year before.

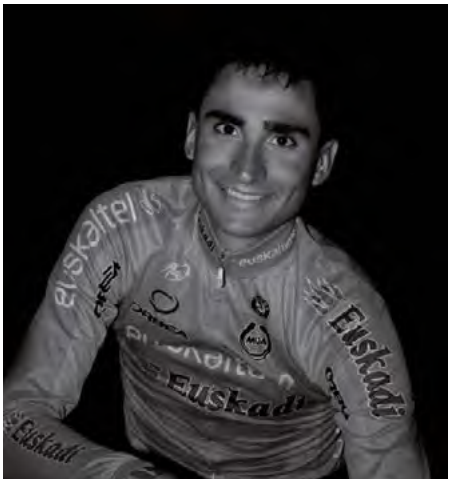


Julien Absalon/
Julien Absalon was the king of XC in the past few years. With his inseparable companion, the Orbea Alma, he took four World Championships, five World Cups and Olympic gold in Beijing. As a member of Orbea Racing Team from 2006 to 2012, Absalon dominated the French MTB and cyclo-cross scene.

Iñaki Lejarreta/
World Junior champion, Olympic diploma in Beijing, Spanish Elite and U23 champion, winner of countless races at the MTB Spanish Open, a member of Orbea Racing Team since it was formed, alongside Rubén Ruzafa, Julien Absalon and other leading bikers, a cyclo-cross enthusiast and, above all, a lover of sports, Iñaki had his life taken away in a road accident when he was training. Lejarreta was a fighter, a man who stood up for care and respect when riding or driving on the road until the end of his life. To Orbea, Iñaki set an example. He was a hero.



Víctor Cabedo/
(Onda, Castellón, June 15, 1989 - Almedíjar, Castellón, September 19, 2012) was a Spanish professional cyclist who finished his career in Euskaltel-Euskadi team.
He made his professional debut with the Orbea Continental team in 2011, with a fifth place in the Spring Classic of Amorebieta and winner of the fourth stage on the Tour of Asturias, 9th and 8th in the Spaniard Road Championships at TimeTrial and road race, being the first of a team not UCI ProTeam. In 2012 Victor made the leap to UCI ProTeam (highest category) team Euskaltel-Euskadi. He died in the 9th of September on 2012, hit by a car while he was training.



HISTORY

THE BRAND

lution is wired in Orbea's DNA. It's part of our philosophy and our being. To Orbea, life means nothing without the search for new, better ideas, without new technologies to improve our products and their usability, without moving forward, without taking further steps. This is what we think, as reflected in our character and brand, adapting to change, time and users along the way to make an internationally renowned and strong brand.

1840-1900 /

Orbea started off as 'Orbea Hermanos', a small gun factory in Eibar. It soon became one of the leading companies at the local level, and a big player in the national industry. With time, it expanded business to cartridges, mother-of-pearl grips and machinery. Always in the avant-garde of progress, Orbea was the first plant in Eibar to use electric power.

1900-1930 /

As early as 1907, Orbea embarked on internationalization, setting up a plant in Buenos Aires. With the new plant, and the outbreak of World War I, production grew exponentially, and this led to the opening of new facilities and the creation of jobs. When the war was over, Orbea extended its range of products, focusing on the manufacture of bicycles and gradually exiting the gun industry.



1930-1950 /

After the Spanish Civil War, the Orbea plant had 1,000 workers, producing 50,000 bikes a year. This kind of success, however, was not enough. Orbea's thirst for innovation led to investment in new sectors that were all the rage in other parts of the world. In 1944, it took its first steps in the automotive industry with Electrociclos S.A., releasing an electric motorcycle and two carrier tricycles with the box at the front. At the same time, Orbea had its first sponsored pro cyclists, bearing fruit in accomplishments like Mariano Cañardo's second place in the Vuelta a España 1935.



1950-1969 /

In the 1960s, Orbea renewed its commitment to innovation, producing the Velosolex scooters. However, shrinking demand for bicycles in the domestic market resulted in one of the worst times in the company's history.

1969-1975 /

In the early 1970s, the workers took charge and set up the Orbea Cooperative. Later, Orbea joined Mondragon, the world's largest cooperative group.



1980-1990 /

In these decades, Orbea sponsored professional cycling teams like Grupo Deportivo Orbea-Danena. In 1985, Perico Delgado won the Vuelta a España riding an Orbea bicycle and using Orbea gear. Also in this period, Orbea entered the MTB cycling market.

1992 /

In the early 1990s, Orbea put together its first MTB team, led by Jokin Mujika, who won the Spanish Cyclo-Cross Championships in 1994.



1997 /

In 1997, Orbea redesigned its strategy so as to be able to operate in the global market. The company began to open up to new markets while focusing on product R&D and building a strong brand image according to the new times and types of users.

2003 /

In 2003, Orbea produced its first carbon fiber bicycle, the Orbea Orca Carbon. The Orca combined state-of-the-art technology with innovation and design. The Orca won its first race with Iban Mayo. It was the queen stage of the Tour de France. Then there came other prizes, like the Eurobike Award.

2008 /

Continuous innovation and development earned the brand great accolades, like Julien Absalon and Samuel Sánchez's Olympic gold medals in Beijing (MTB and road cycling, respectively) or the Ordu as the fastest triathlon bike in history between the legs of Orbea Orca Tri Team Andrew Starykowicz. Before that, there were Craig Alexander's Ironman Hawaii victories in 2008 and 2009.

But things didn't stop there…



HISTORY

ORBEA

TODAY

Orbea is now a well-established, international brand that has undergone a dramatic transformation and significant growth in the past few years.

The brand has been saluted for its capacity to introduce new proposals and make changes leading to a new understanding of the bike industry.

EVER-CHANGING AND EVOLVING /

Orbea is an ever-changing brand, always trying to improve, innovate and excite. Evolution has become the brand's second name.





FIGHTERS AND NON-CONFORMISTS /

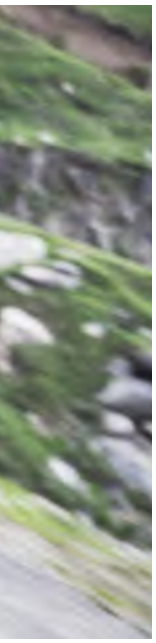
At Orbea we're fighters and non-conformists. We're ambitious and daring, and this makes us do big things, even when we're small.



COMMITTED AND HONEST /

We're committed to our users, dealers and suppliers, to society at large and, of course, to ourselves. We're consistent with what we say and honest in our statements.









PROUD AND RELIABLE /

We're proud of our past, we stick to our roots, for this is where our values stem from, and the market relies on our values.



CLOSE TO PEOPLE /

We're kind, we like being close to people, we want to share in the experiences that make our customers better versions of themselves.



WE ARE ORBEA


ORBEA

WE ARE ORBEA

OUR VALUES

Our values mark the way on the basis of tradition, although with an innovative concept and structure. Our values are related to the way we understand everyday work, the way we live, and the way we feel, experience and approach sports. Guided by our values, we can face the development of the global solutions we offer users a wide range of products for leisure and sports carrying the best of us.

FIGHTERS AND NON-CONFORIMISTS /

01

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02

EVER-CHANGING AND EVOLVING /

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PROUD AND RELIABLE /

We're proud of our past, we stick to our roots, for this is where our values stem from, and the market relies on our values.



WE ARE ORBEA



OUR COMMITMENT

We want to continue to grow and develop the Orbea brand at the European level and as a global reference in the provision of services and solutions to end users who like outdoor activities and all things related to bicycles.

We want to be perceived by our clients, and end-users, as a company that solves their problems and caters to their recreational and sports activities, and as a social leader embodying a series of values and feelings they feel identified with.

We want to cement alliances with local dealers and other partners joining the Orbea project and sharing our vision.

For we believe it is the people who make the brand.

WE ARE A COOPERATIVE

Mondragon is a cluster of cooperatives making a second-grade cooperative. This means every single cooperative can grow to a degree that would be unthinkable if they were on their own, reaching places they'd never be able to reach alone. More than 80,000 people work at Mondragon Corporation around the world, and 9,000 are studying at the Corporation's universities and learning centers. This means huge revenues and the right resources to face the future.



MULTI-LOCATION AS A LOCAL GROWTH STRATEGY

Given our commitment to giving back to society more than we've got from it and to creating jobs at the local level, at Orbea we chose multi-location as the most adequate strategy. Delocalization, on the other hand, is rejected as a selfish strategy.

Orbea has opened manufacturing plants in China and Portugal, logistics, distribution and industrialization offices in Hong Kong, business offices in several European, and branches in USA and Australia. The goal is always the same: local development and wealth.

LIFETIME WARRANTY

We work continuously to make absolutely reliable, durable frames. Our design process, tests and research are oriented to ensure that your bicycle always lives up to your expectations. If your frame has a manufacturing fault, we will activate the warranty process and replace it with a new one right away.

DESIGN AND PRODUCTION

Orbea was established almost 175 years ago and has been designing bikes for more than 80. Since then, we've experienced many different changes in terms of design, materials and product technology: carbon, manufacturing processes, painting, testing, and so on.

And we've gone down this road with hope and passion for sports and their history. We want every bicycle to be special and unique for the person riding it.

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ORBEA BIKES



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ROAD2015





Orca

CONQUER MOUNTAINS, CLIMB PODIUMS.

Luz Ardiden. Alpe d'Huez. Empire. Mortirolo. Flagstaff. Marmolada. Hautacam. Lagos de Covadonga. Galibier. Angliru. La Linea. Navacerrada. Arrate. Urkiola. Maybe you've experienced some of these cycling monuments. Perhaps they are only jagged lines on the maps and stage profiles of your imagination.

The emotion is inescapable – these names incite passion and memories of heroic struggles between the giants of cycling, impossible feats made painfully real by competitors who refused to surrender. It's these storied climbs and the riders who made them sacred that inspired the newest Orca. An Orca born from competition and love of cycling, ready to write history on pavement everywhere.

Road racing bicycles have become amazing minimalist machines – but the more that is taken away, the greater the importance of the remaining elements. Shaping becomes functionally deliberate and calculated. The lower spine of the frame supports the upper members like a suspension bridge, uniting elements in a perfect balance of lightweight rigidity. The startlingly large down tube and chainstays of the new Orca provide incredible strength and stiffness while the top tube and seat stays are tuned to almost nothing – the primary purpose of their slender shapes: to reduce mass. The whole is greater than the sum of the parts – a 900g frame with a magical ride quality that is almost rlutionary.

Name	ORBEA ORCA
Category	ROAD
Fit	STACK & REACH/ PROGRESIVE SIZING/ MONOCOQUE
Aerodynamics	NEW FORK
Construction	ORBEA MONOCOQUE/ PRESS FIT BOTTOM BRACKET/ EC/DC INTERNAL CABLE/ TAPERED HEAD TUBE
Orbea values	LIFETIME WARRANTY/ ORBEA DESIGN

HISTORY

ORBEA CARBON

The name Orca is derived from the initial letters of ORbea CArbon. It symbolizes our creation of one of the earliest monocoque frames in 2003. The combination of ride quality and performance embodied by Orbea's design flair, craftsmanship and technical process kes the power, speed and beauty of the magnificent predator.



2003
THE LEGEND
IS BORN /

Orca has always been a rlution for Orbea and for the market. It still is. It was Orbea's first full-carbon bike. In 2003, its creation marked a turning point in the cycling world. And it was the first step on a path of technological breakthroughs and refinement that Orbea continues along today, with all of the passion of the early days.



2006
EUROBIKE
AWARD /

We put our faith in design, setting trends for the entire industry. The 2006 Orca won the prestigious Eurobike Award, a prize granted only to the very best.



2008
OLYMPIC
GAMES /

A Gold Medal in China placed the Orca firmly in the ranks of the best racing bikes available and marked another step in the lution of the bike that marked a generation.



2010
NEW
TECHNOLOGIES /

The Orca lution continues with a host of exciting new technologies including Attraction, DCR, Aizone, BB30, Tapered Headtube and multiple levels of carbon.



2014
THE LUTION
OF FIT /

Orca in 2014 underwent a dramatic change to include new sizes and a revised fitting philosophy. As always, Orbea's association with professional racing and Euskaltel-Euskadi provided to be an invaluable resource in crafting the finest road frame available.





WHAT MAKES THE ORCA UNIQUE?

A machine born to Conquer Mountains and Climb Podiums. Road racing bicycles have become amazing minimalist machines – but the more that is taken away, the greater the importance of the remaining elements. Shaping becomes functionally deliberate and calculated. The lower spine of the frame supports the upper members like a suspension bridge, uniting elements in a perfect balance of lightweight rigidity.

The startlingly large downtube and chainstays of the new Orca provide incredible strength and stiffness while the top tube and seat stays are tuned to almost nothing – the primary purpose of their slender shapes: to reduce mass. The whole is greater than the sum of the parts – an 850g frame with a ride quality that is almost rlutionary.

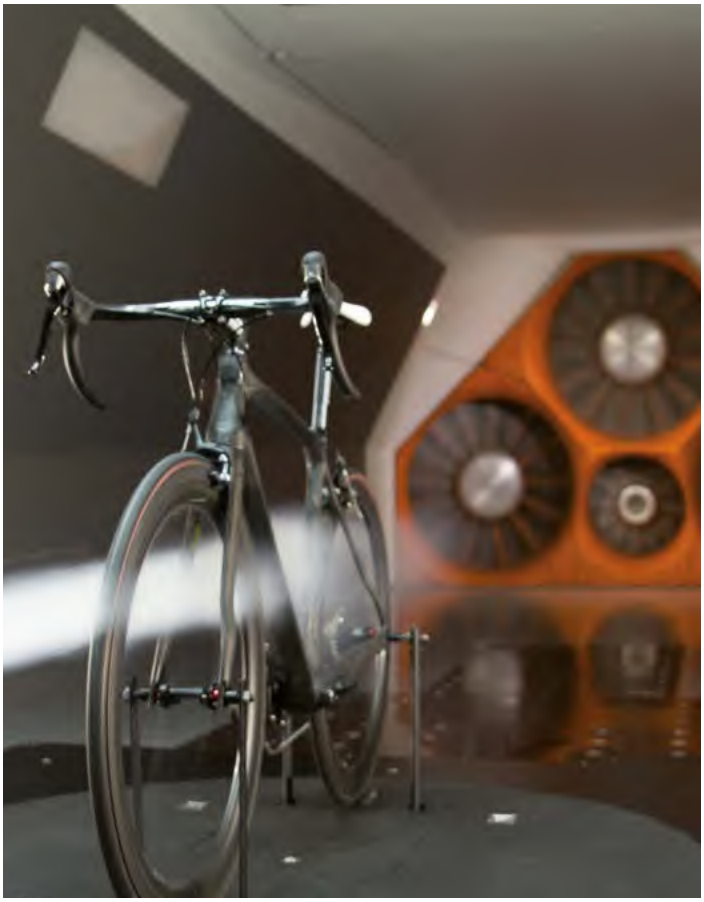
01/ LIGHT

02/ STIFF

03/ RIDE QUALITY

04/ RACING GEOMETRY








orca

DESIGN

01/ LIGHTER

Reducing frame weight is an elusive goal. It's fairly simple to cut weight from a heavy frame – quite difficult to trim even a hundred grams from a structure that is already very lean.

It became our mantra when creating the new orca: if a design feature was not vital to stiffness and ride quality, that element must be reshaped or eliminated to reduce frame weight.

· Orbea OMR and OMP carbon fiber. Orbea uses non-conventional and exclusive carbon fibre to aim optimal ratio of weight and stiffness according to our design. OMR and OMP fibres are already 25% stronger on impact than conventional fibres that combined in monocoque structure certifies Orbea Long Life Warranty.

OPTIMIZED SHAPING

The seat stays of the new orca are much thinner, the cross-sections and diameters reduced to provide graceful support for the seat tube and nothing more. The hybrid square-round shaping of the seat tube places material only where needed, a 27.2Mm seatpost offers the lowest weight and smoothest ride. The top tube is robust at the head tube where it contributes to torsional stiffness, but quickly tapers to eliminate unnecessary material.

ALUMINUM REDUCTION

The number of aluminum inserts has been minimized and the pieces have been redesigned to eliminate unwanted bulk. A traditional seat collar replaces the aero collar of the 2014 O rca.

EPS CONSTRUCTION

EPS is a construction process that further saves weight by eliminating waste or variation inside the tube. The carbon is compressed more efficiently in the mold without the need for traditional bladders. This means that less material can be used while maintaining or even increasing strength.

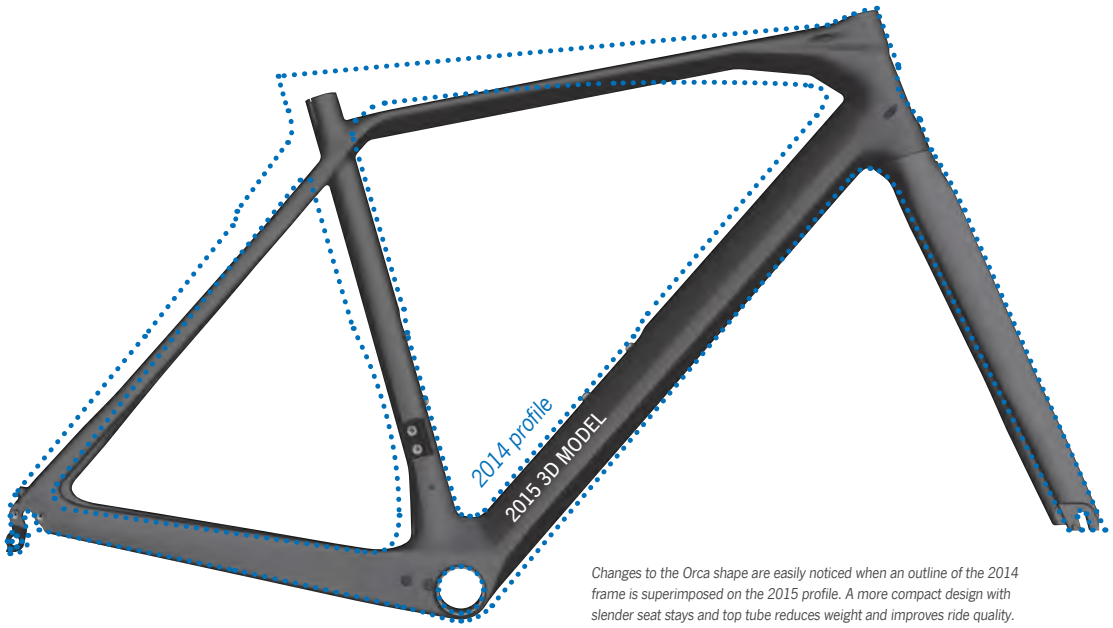
LESS WEIGHT MORE ACCELERATION

MORE ACCURATE PROCESS

LESS MATERIAL

MAINTAIN OR INCREASE STRENGTH





Changes to the Orca shape are easily noticed when an outline of the 2014 frame is superimposed on the 2015 profile. A more compact design with slender seat stays and top tube reduces weight and improves ride quality.

WEIGHT REDUCTION FOR ORCA OMR AND OMP

OMR CARBON (Orbea Monocoque Race)

OMR carbon layup consists of custom high modulus fibers that create extremely rigid structures. When combined with low-unit-weight fibers, they result in frames with the best stiffness-to-weight ratio.



ORCA RACE (OMR) | *53cm frame weight*

232G
20% LIGHTER

OMP CARBON (Orbea Monocoque Performance)

OMP carbon layup consists of custom high modulus fibers that provide stiffness blended with lower modulus fibers that improve vibration absorption for maximum efficiency and toughness.



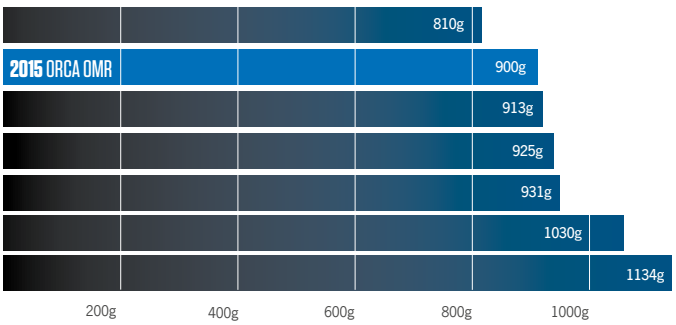
ORCA PERFORMANCE (OMP) | *53cm frame weight*

180G
15% LIGHTER

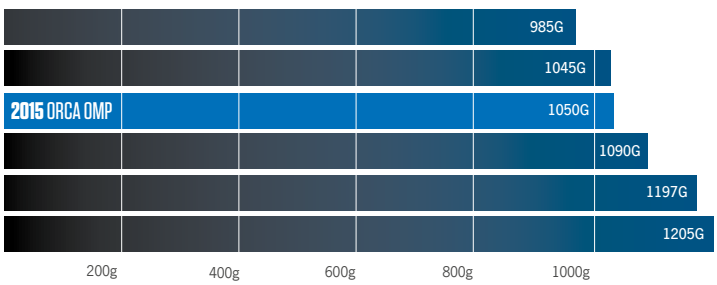
HOW DOES THE ORCA STACK UP TO THE COMPETITION?

We selected different frames with different carbon levels-types to conpare with our frames.

OMR & SIMILAR MODELS



OMP & SIMILAR MODELS



DESIGN

02/ STIFFER



OVERSIZED SPINE

The large majority of torsional and lateral loads are handled by the lower half of any frame. The headtube, downtube and chainstays must resist twisting and transmit the power generated by your legs to the rear wheel. There is no doubt about it, this resistance to flex translates directly to more watts on the road.

IMPROVING TORSIONAL STIFFNESS = MORE SPEED

WIDER BB SHELL

The new Orca displays massive tube cross-sections in the critical bottom bracket junction, made possible by a wide PF86 bottom bracket shell. The larger diameters increase efficiency and rigidity without adding weight since the material thickness can be reduced while maintaining the same strength.

IMPROVING TORSIONAL STIFFNESS = BETTER POWER TRANSMISSION

EPS CONSTRUCTION

EPS is a construction process that further saves weight by eliminating waste or variation inside the tube. The carbon is compressed more efficiently in the mold without the need for traditional bladders. This means that less material can be used while maintaining or even increasing strength.

MORE ACCURATE PROCESS

LESS MATERIAL

MAINTAIN OR INCREASE STRENGTH

24% INCREASE IN LATERAL RIDGIDITY

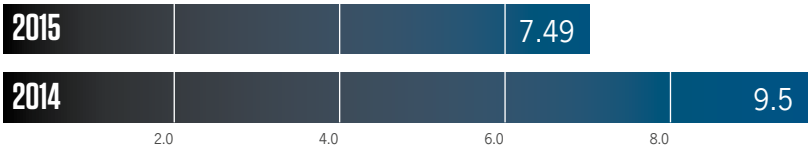
OMR CARBON (Orbea Monocoque Race)

OMR carbon layup consists of custom high modulus fibers that create extremely rigid structures. When combined with low-unit-weight fibers, they result in frames with the best stiffness-to-weight ratio.

OMP CARBON (Orbea Monocoque Performance)

OMP carbon layup consists of custom high modulus fibers that provide stiffness blended with lower modulus fibers that improve vibration absorption for maximum efficiency and toughness.

ORBEA OMR



2.01MM
26% STIFFER

ORBEA OMP



1.49MM
19% STIFFER

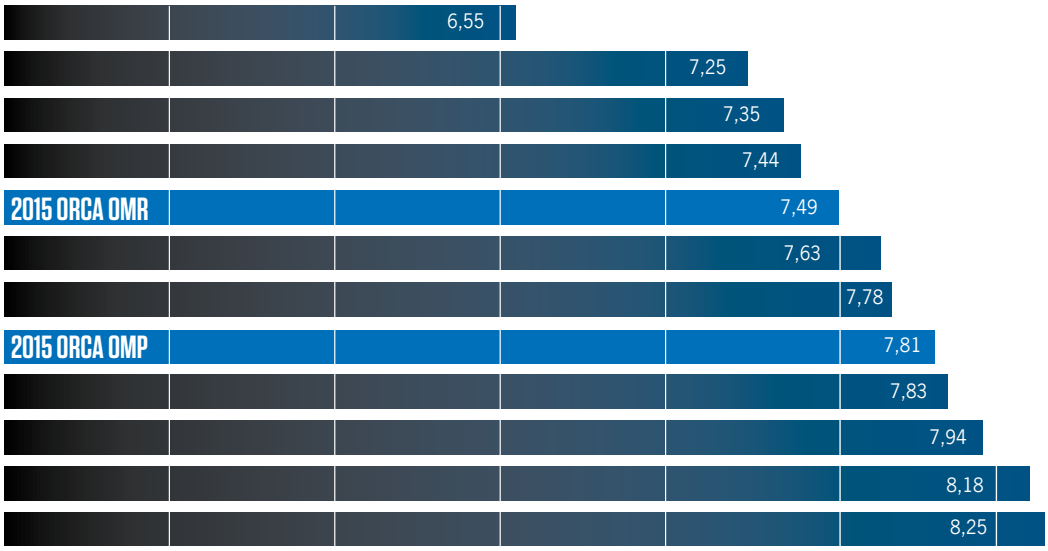
FRAME DEFLECTION (MILLIMETERS)

HOW DOES THE ORCA STACK UP TO THE COMPETITION?

We all want to know how we compare to the competition, whether on the road or in the lab. During development of the new Orca, we tested our frames against popular models from several major manufacturers. We selected top-shelf racing frames that compete with OMR as well as models that compare to performance-oriented OMP.

The bottom line? There are many fantastic bikes out there and we are pleased that Orca is among the best in every test, including frame weight for both models.

OMR VS THE COMPETITION



FRAME DEFLECTION (MILLIMETERS)

DESIGN

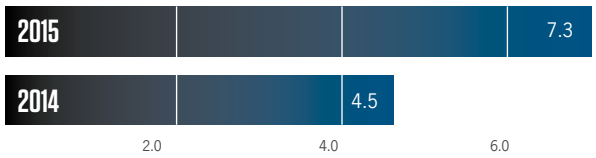
03/ RIDE QUALITY

THE STIFFEST BIKE AVAILABLE IS NOT THE BEST BIKE

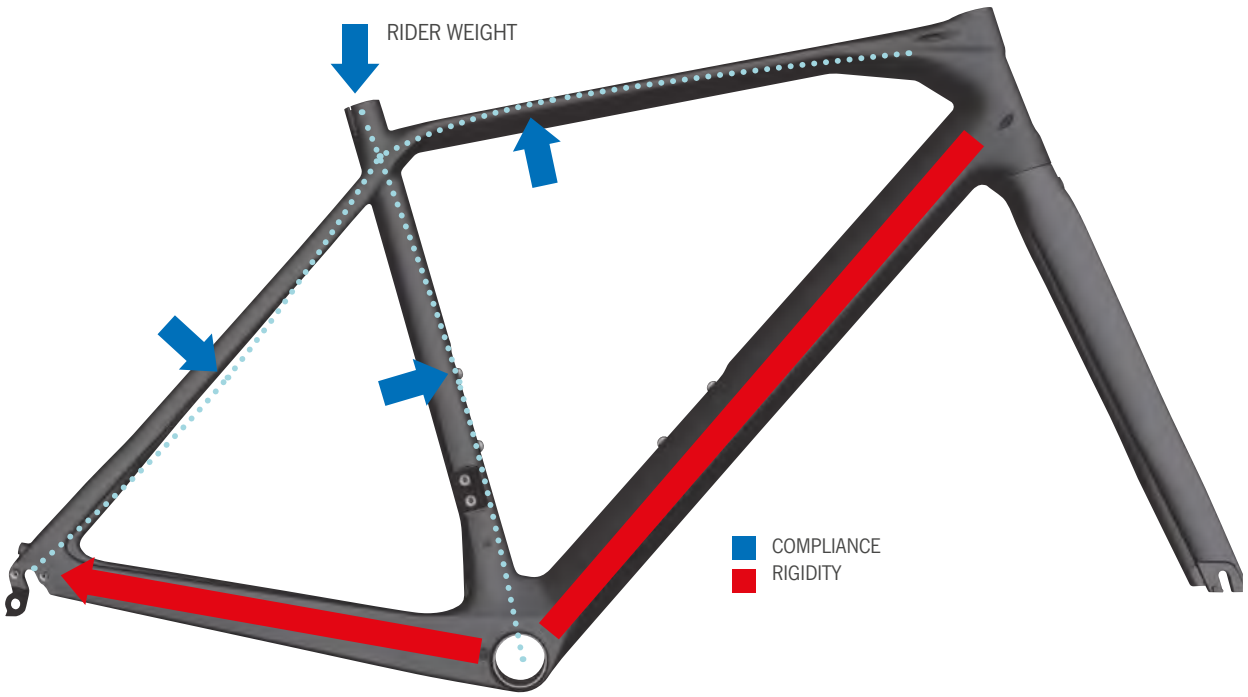
Ride quality - Smoothness - is an elusive blend of elements and careful planning that results in an Orca that is a joy to ride. This is a concept that we have borrowed from our World Cup-winning Alma mountain bike and adapted for use in the 2015 Orca. Studying the way the frame behaves under a rider's weight is beneficial to tuning the way bumps or vibrations are transmitted through the frame. The efficiency of the bottom bracket area contributes the feel that the bike is responsive, that power transfer is instantaneous.

The natural flex patterns created by the carbon layup and structure in the top tube and seat stays deliver an efficient, smooth ride that feels like floating over rough roads. The sensation is subtle - but it is noticeable and can be tested. And at the end of a gruelling climb it could make the difference between the podium and the consolation prize.

THE STIFFEST, LIGHTEST, MOST AERO BIKE AVAILABLE IS NOT THE BEST BIKE. AN ELUSIVE BLEND OF ELEMENTS.



2.8MM
62% MORE EFFICIENCY



FASTER

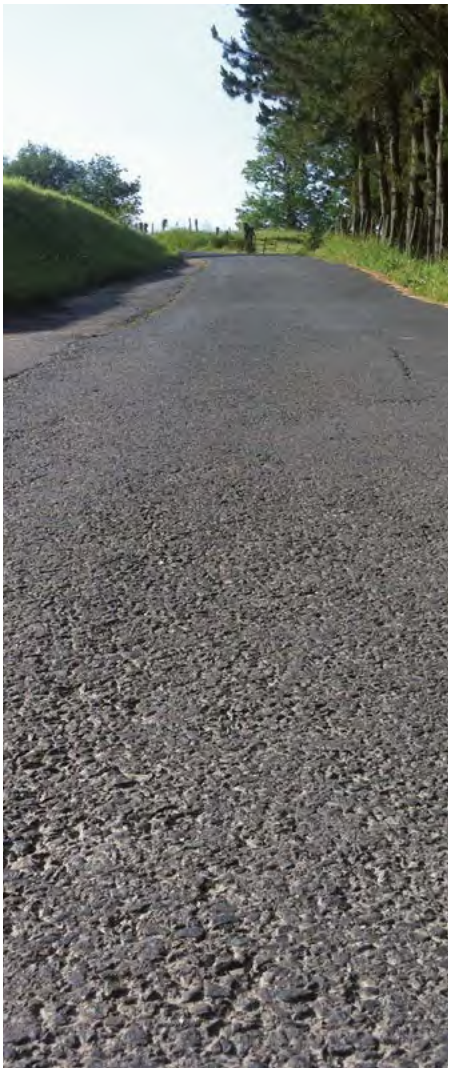
BETTER TRACTION

BETTER HANDLING

BETTER POWER TRANSFER

ROAD SURFACE AND VIBRATION ABSORPTION

ROAD



+4 WATTS

Negative forces → → 40 KM/H

ROUGH AND DIRTY ROADS



+6 WATTS

Negative forces ↗ ↗ 40 KM/H

COBBLESTONES



+10 WATTS

Negative forces ↑ ↑ 40 KM/H

DESIGN

04/ WHAT IS RACING GEOMETRY?





Racing geometry gets the most of every pedal stroke, efficiently converting every watt into speed. The wheelbase is shorter, allowing for a more responsive bike that take curves with ease and has great traction when you start pedaling and when you accelerate as well, which saves time and power at the same time. Additionally, a low stack and longer reach allow for a more aerodynamic position on the bike, and a more efficient use of energy.

REAL WATTS = FASTER

SHORTER WHEELBASE = MORE REACTIVE

BETTER TRACTION = ACCELERATION

IMPROVES HANDLING = CONTROL

MORE AERODYNAMIC POSITION

RACING VS ENDURANCE

ORCA
AVANT



SMART SIZING TO FIT THE WIDEST RANGE OF MEN AND WOMEN

Stack and reach are important measurements because they define the spatial relationships of two important contact points between your body and the bike – pedals and handlebars. Stack is the vertical distance from the center of the bottom bracket to the top of the headtube. Reach is the horizontal distance from the center of the bottom bracket to that same point - the top center of the headtube.

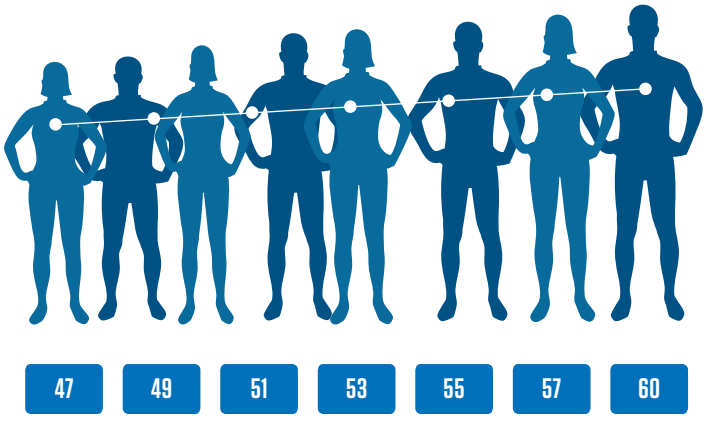
An understanding of stack and reach can explain why many small bikes don't fit well. There are instances in the market when the smallest sizes do not offer shorter reach measurements and do not bring the head tube (therefore the handlebars) any closer to the rider than the next bigger size. How does the manufacturer advertise a full size range then, based on top tube lengths?

What we're suggesting is an lution in bike geometry. It's a different way to look at how to design and build bike frames that allows the Orca to fit a wider range of men and women and follow a more linear size progression. The new size range includes 47, 49, 51, 53, 55, 57, and 60cm sizes and ensures that anyone can ride an Orca, no matter how large or small. The progressive sizing ensures that our 47cm bike indeed offers the smallest fit and that subsequent sizes grow in a linear and predictable fashion.

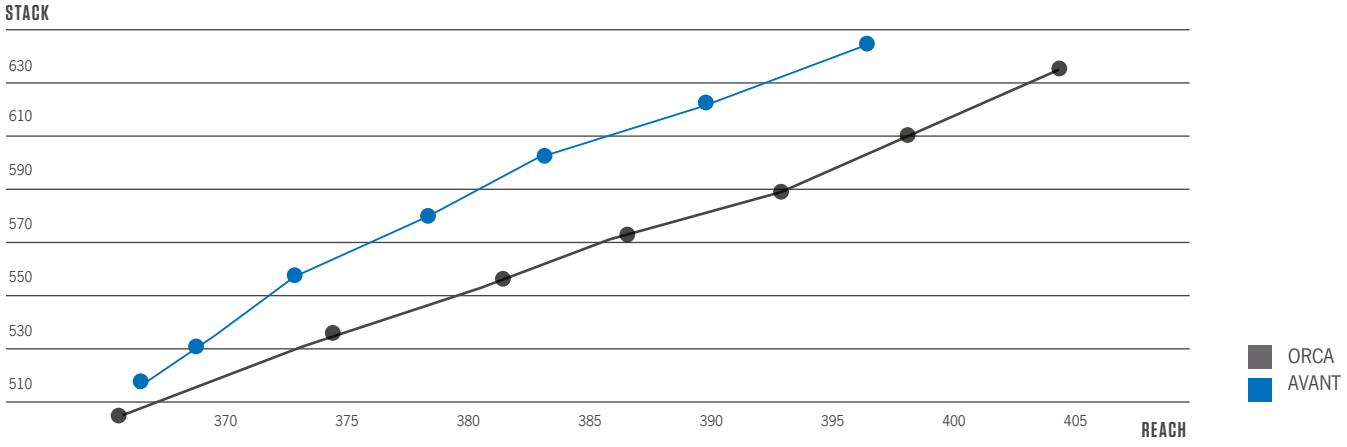
FITS MORE PEOPLE BETTER

WOMEN AND MEN FIT UNIVERSALLY

CONSTISTENT STACK AND REACH SCALING



ORCA VS AVANT - STACK AND REACH



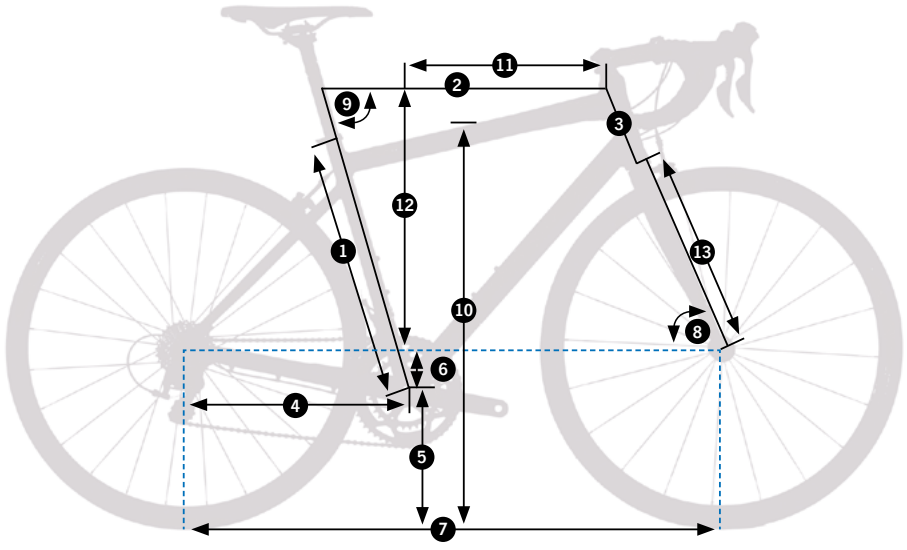
GEO CHART / ORCA OMR

GEOMETRY

SIZE	47	49	51	53	55	57	60
1 – Seat Tube (C – T)	410	440	470	490	510	530	560
2 – Top Tube (EFF)	514.8	520.55	537.9	548.5	563.7	576	590
3 – Head Tube	104	112	130	145	165	182	207.1
4 – Chainstay	405	405	405	405	408	408	408
5 – BB Height	271.5	271.5	271.5	271.5	271.5	271.5	271.5
6 – BB Drop	70	70	70	70	70	70	70
7 – Wheelbase	969.6	976.58	986.92	984.77	996.32	1003.89	1012.53
8 – Head Angle	71º	71.4º	71.8º	72.1º	72.5º	73º	73.5º
9 – Seat Angle	73.5º	73.5º	73.5º	73.5º	73.2º	73.2º	73.2º
10 – Standover	708	726	751	771	791	807	835
11 – Reach	365	372	380	385	391	398	404
12 – Stack	506	515	533	552	572	590	616
13 – Fork Length	375	375	375	375	375	375	375

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
47	170	90	400
49	170	100	400
51	170	100	420
53	172.5	110	420
55	172.5	110	420
57	172.5	110	440
60	175	120	440



SIZE

HEIGHT (cm)	SIZE
155 – 160	47
160 – 166	49
167 – 172	51
173 – 179	53
180 – 185	55
186 – 191	57
192 – 207	60

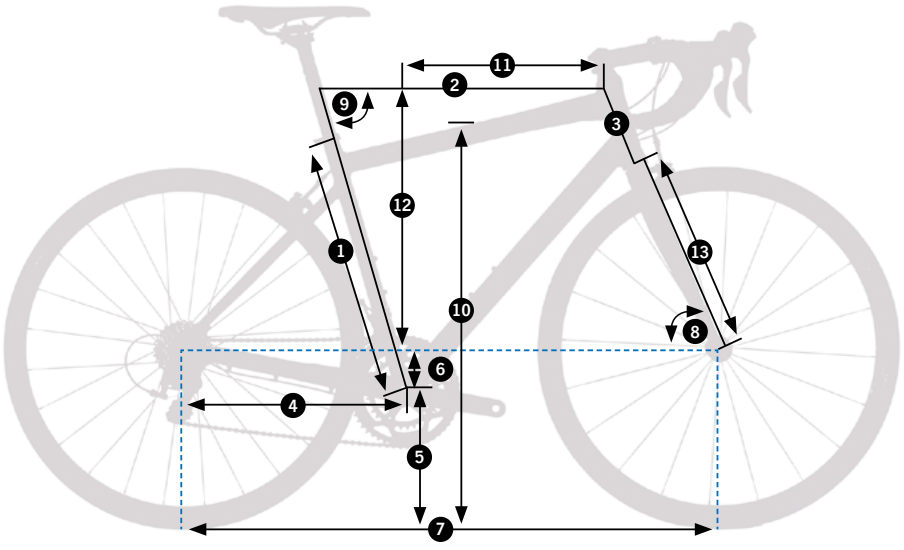
GEO CHART / ORCA OMP

GEOMETRY

SIZE	47	49	51	53	55	57	60
1 – Seat Tube (C – T)	410	440	470	490	510	530	560
2 – Top Tube (EFF)	514.8	520.55	537.9	548.5	563.7	576	590
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9 – Seat Angle	73.5º	73.5º	73.5º	73.5º	73.2º	73.2º	73.2º
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11 – Reach	365	372	380	385	391	398	404
12 – Stack	506	515	533	552	572	590	616
13 – Fork Length	375	375	375	375	375	375	375

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
47	170	90	380
49	170	100	400
51	170	100	420
53	172.5	110	420
55	172.5	110	420
57	172.5	110	440
60	175	120	440



SIZE

HEIGHT (cm)	SIZE
155 – 160	47
160 – 166	49
167 – 172	51
173 – 179	53
180 – 185	55
186 – 191	57
192 – 207	60

CONSTRUCTION

OMR AND OMP CARBON

MONOCOQUE guarantees a carbon structure with optimum performance and long term reliability and it's the only way we've ever done it. We mold the one-piece structures so that each tube is connected to the next, with continuous fibers through each critical juncture. As you ride, your bike will be subjected to a variety of forces – tension, compression, torsion, etc. Our monocoque frames allow optimal distribution of these forces over the entire structure because of the perfect fusion of the composite materials.

INCREASED RESISTANCE TO FATIGUE

REDUCED STRESS POINTS

OPTIMIZED FORMS

FREEDOM OF DESIGN

OMR CARBON (Orbea Monocoque Race)

OMR CARBON consists of the highest modulus fibers, increasing resistance to twisting and compression and delivering extremely rigid structures. When combined with low-unit-weight fibers, they result in frames with the best stiffness-to-weight ratio.

OMP CARBON (Orbea Monocoque Performance)

OMP CARBON consists of high modulus fibers that provide stiffness blended with lower modulus fibers that improve vibration absorption for maximum efficiency and toughness.



CONSTRUCTION

FRAME FEATURES AND DETAILS



EC/DC

The Orbea EC/DC or Electronic Circuit/Direct Cable system is compatible with electronic or mechanical shifting - the choice is yours to make. EC/DC relies on built-in pathways that ease the installation of cables or wires and results in streamlined, flawless shifting performance.



PRESS FIT

The new Orca is designed around a PressFit (PF86) bottom bracket shell. The wider shell ensures optimal stiffness and larger bearings offer reduced maintenance and friction.



INTERNAL DCR

DCR (Direct Cable Routing) protects the cables, reduces friction and enhances durability. Thanks to full cable sealing and internal routing, contamination is lessened and friction reduced by up to 25%. There is a lighter and more precise feel at the levers - function, simplicity, and tidiness are paramount. Less cable housing means that system weight is reduced.



TAPERED HEADTUBE

The Orca features an oversized, tapered headtube (1–1/8" - 1.5") in both the OMR and OMP models to add stiffness and steering precision.

Orca



ORCA M-LTDI

CODE	D127
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

BLUE-PINK
F5

BLACK
F6

Frame	ORCA CARBON OMR, MONOCOQUE,TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMR CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	SHIMANO DURA-ACE 9000 34X50
	SHIMANO DURA-ACE 9000 39X53
Headset	FSA 1-1/8"-11/2" INTEGRATED CARBON CUP LIGHT BEARINGS
Handlebar	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO DURA-ACE 9070 DI2
Brakes	SHIMANO DURA-ACE 9000
Rear Derailleur	SHIMANO DURA-ACE 9070 DI2
Front Derailleur	SHIMANO DURA-ACE 9070 DI2
Chain	SHIMANO DURA-ACE 9000
Wheels	VISION METRON 40 CARBON CLINCHER
	MAVIC KSYRIUM SLR
Cassette	SHIMANO DURA-ACE 11-28 11-SPEED
	SHIMANO DURA-ACE 9000 11-25 11-SPEED
Tires	VITTORIA OPEN CORSA 700X23 320TPI
Pedals	N/A
Seatpost	FSA K-FORCE LIGHT DI2 SB25 27,2X350MM
Saddle	PROLOGO SCRATCH 2 TIROX SIZE 134 MM

Orca



ORCA M-LTD

CODE	D126
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

BLUE-PINK
F5

BLACK
F6

Frame	ORCA CARBON OMR, MONOCOQUE,TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMR CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	SHIMANO DURA-ACE 9000 34X50
	SHIMANO DURA-ACE 9000 39X53
Headset	FSA 1-1/8"-11/2" INTEGRATED CARBON CUP LIGHT BEARINGS
Handlebar	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO DURA-ACE 9000
Brakes	SHIMANO DURA-ACE 9000
Rear Derailleur	SHIMANO DURA-ACE 9000
Front Derailleur	SHIMANO DURA-ACE 9000
Chain	SHIMANO DURA-ACE 9000
Wheels	VISION METRON 40 CARBON CLINCHER
	MAVIC KSYRIUM SLR
Cassette	SHIMANO DURA-ACE 11-28 11-SPEED
	SHIMANO DURA-ACE 9000 11-25 11-SPEED
Tires	VITTORIA OPEN CORSA 700X23 320TPI
Pedals	N/A
Seatpost	FSA K-FORCE LIGHT SB25 27.2X350MM
Saddle	PROLOGO SCRATCH 2 TIROX SIZE 134 MM

Orca



ORCA M-TEAMI

CODE	D125
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

BLUE-PINK
F5

BLACK
F6

Frame	ORCA CARBON OMR, MONOCOQUE,TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMR CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	SHIMANO ULTEGRA 6800 34X50
	SHIMANO ULTEGRA 6800 39X53
Headset	FSA 1-1/8"-11/2" INTEGRATED CARBON CUP LIGHT BEARINGS
Handlebar	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO ULTEGRA 6870 DI2
Brakes	SHIMANO ULTEGRA 6800
Rear Derailleur	SHIMANO ULTEGRA 6870 DI2
Front Derailleur	SHIMANO ULTEGRA 6870 DI2
Chain	SHIMANO ULTEGRA 6800
Wheels	MAVIC KSYRIUM SLR
	VISION METRON 40 CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
	SHIMANO ULTEGRA 6800 11-25 11-SPEED
Tires	YKSION PRO GRIPLINK FRONT & POWERLINK REAR 700X23 127TPI
Pedals	N/A
Seatpost	FSA K-FORCE LIGHT DI2 SB25 27,2X350MM
Saddle	PROLOGO SCRATCH 2 TIROX SIZE 134 MM

Orca



ORCA M-TEAM

CODE	D124
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

BLUE-PINK
F5

BLACK
F6

Frame	ORCA CARBON OMR, MONOCOQUE,TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMR CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	SHIMANO ULTEGRA 6800 34X50
	SHIMANO ULTEGRA 6800 39X53
Headset	FSA 1-1/8"-11/2" INTEGRATED CARBON CUP LIGHT BEARINGS
Handlebar	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO ULTEGRA 6800
Brakes	SHIMANO ULTEGRA 6800
Rear Derailleur	SHIMANO ULTEGRA 6800
Front Derailleur	SHIMANO ULTEGRA 6800
Chain	SHIMANO ULTEGRA 6800
Wheels	MAVIC KSYRIUM SLR
	VISION METRON 40 CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
	SHIMANO ULTEGRA 6800 11-25 11-SPEED
Tires	YKSION PRO GRIPLINK FRONT & POWERLINK REAR 700X23 127TPI
Pedals	N/A
Seatpost	FSA K-FORCE LIGHT SB25 27.2X350MM
Saddle	PROLOGO SCRATCH 2 TIROX SIZE 134 MM

Orca



ORCA M12

CODE	D123
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

- WHITE - RED F1
- BLUE-PINK F2
- PINK-WHITE F3
- WHITE - BLUE F4
- BLACK F7

Frame	ORCA CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	SRAM RED 22 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA ENERGY COMPACT
	FSA K-FORCE COMPACT
Stem	FSA ENERGY
	FSA OS-99 CSI
Shifters	SRAM RED 22 DOUBLETAP
Brakes	SRAM RED
Rear Derailleur	SRAM RED 22
Front Derailleur	SRAM RED 22 YAW
Chain	SRAM RED PC-1190R
Wheels	MAVIC KSYRIUM ELITE
	MAVIC KSYRIUM SLR
	VISION TRIMAX T30 CLINCHER
	VISION METRON 40 CLINCHER
Cassette	SRAM RED XG 1190 11-28 11-SPEED
Tires	YKSION PRO GRIPLINK (FRONT) & POWERLINK (REAR) 700X23 127TPI
Pedals	N/A
Seatpost	FSA SL-K SB20 27.2X350MM
Saddle	PROLOGO SCRATCH 2 TIROX SIZE 134 MM

Orca



ORCA M11

CODE	D122
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

- WHITE - RED F1
- BLUE-PINK F2
- PINK-WHITE F3
- WHITE - BLUE F4
- BLACK F7

Frame	ORCA CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	CAMPAGNOLO SUPER RECORD 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA ENERGY COMPACT
	FSA K-FORCE COMPACT
Stem	FSA ENERGY
	FSA OS-99 CSI
Shifters	CAMPANOLO SUPER RECORD EPS
Brakes	CAMPAGNOLO SUPER RECORD D SKELETON
Rear Derailleur	CAMPANOLO SUPER RECORD EPS
Front Derailleur	CAMPANOLO SUPER RECORD EPS
Chain	CAMPAGNOLO SUPER RECORD
Wheels	MAVIC KSYRIUM ELITE
Cassette	CAMPAGNOLO SUPER RECORD 11-27 11-SPEED
Tires	YKSION PRO GRIPLINK (FRONT) & POWERLINK (REAR) 700X23 127TPI
Pedals	N/A
Seatpost	FSA SL-K SB20 27.2X350MM
Saddle	PROLOGO SCRATCH 2 TIROX SIZE 134 MM

Orca



ORCA M10I

CODE	D121
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

- WHITE - RED F1
- BLUE-PINK F2
- PINK-WHITE F3
- WHITE - BLUE F4
- BLACK F7

Frame	ORCA CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	SHIMANO DURA-ACE 9000 34X50
	SHIMANO DURA-ACE 9000 39X53
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA ENERGY COMPACT
	FSA K-FORCE COMPACT
Stem	FSA ENERGY
	FSA OS-99 CSI
Shifters	SHIMANO DURA-ACE 9070 DI2
Brakes	SHIMANO DURA-ACE 9000
Rear Derailleur	SHIMANO DURA-ACE 9070 DI2
Front Derailleur	SHIMANO DURA-ACE 9070 DI2
Chain	SHIMANO DURA-ACE 9000
Wheels	MAVIC KSYRIUM ELITE
	MAVIC KSYRIUM SLR
	VISION TRIMAX T30 CLINCHER
	VISION METRON 40 CLINCHER
Cassette	SHIMANO DURA-ACE 11-28 11-SPEED
	SHIMANO DURA-ACE 9000 11-25 11-SPEED
Tires	YKSION PRO GRIPLINK (FRONT) & POWERLINK (REAR) 700X23 127TPI
Pedals	N/A
Seatpost	FSA SL-K DI2 SB20 27.2X350MM
Saddle	PROLOGO SCRATCH 2 TIROX SIZE 134 MM

Orca



ORCA M10

CODE	D120
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

WHITE - RED
F1

BLUE-PINK
F2

PINK-WHITE
F3

WHITE - BLUE
F4

BLACK
F7

Frame	ORCA CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	SHIMANO DURA-ACE 9000 34X50
	SHIMANO DURA-ACE 9000 39X53
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA ENERGY COMPACT
	FSA K-FORCE COMPACT
Stem	FSA ENERGY
	FSA OS-99 CSI
Shifters	SHIMANO DURA-ACE 9000
Brakes	SHIMANO DURA-ACE 9000
Rear Derailleur	SHIMANO DURA-ACE 9000
Front Derailleur	SHIMANO DURA-ACE 9000
Chain	SHIMANO DURA-ACE 9000
Wheels	MAVIC KSYRIUM ELITE
	MAVIC KSYRIUM SLR
	VISION TRIMAX T30 CLINCHER
	VISION METRON 40 CLINCHER
Cassette	SHIMANO DURA-ACE 11-28 11-SPEED
	SHIMANO DURA-ACE 9000 11-25 11-SPEED
Tires	YKSION PRO GRIPLINK (FRONT) & POWERLINK (REAR) 700X23 127TPI
Pedals	N/A
Seatpost	FSA SL-K SB20 27.2X350MM
Saddle	PROLOGO SCRATCH 2 TIROX SIZE 134 MM

Orca



ORCA M20I

CODE	D119
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

- WHITE - RED F1
- BLUE-PINK F2
- PINK-WHITE F3
- WHITE - BLUE F4
- BLACK F7

Frame	ORCA CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	SHIMANO ULTEGRA 6800 34X50
	SHIMANO ULTEGRA 6800 39X53
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA ENERGY COMPACT
	FSA K-FORCE COMPACT
Stem	FSA ENERGY
	FSA OS-99 CSI
Shifters	SHIMANO ULTEGRA 6870 DI2
Brakes	SHIMANO ULTEGRA 6800
Rear Derailleur	SHIMANO ULTEGRA 6870 DI2
Front Derailleur	SHIMANO ULTEGRA 6870 DI2
Chain	SHIMANO ULTEGRA 6800
Wheels	MAVIC KSYRIUM EQUIPE
	MAVIC KSYRIUM SLR
	MAVIC KSYRIUM ELITE
	VISION TRIMAX T30 CLINCHER
	VISION METRON 40 CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
	SHIMANO ULTEGRA 6800 11-25 11-SPEED
Tires	MAVIC YKSION COMP 700X23 120TPI
Pedals	N/A
Seatpost	FSA SL-K DI2 SB20 27.2X350MM
Saddle	PROLOGO SCRATCH 2 TIROX SIZE 134 MM

Orca



ORCA M20

CODE	D118
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

- WHITE - RED F1
- BLUE-PINK F2
- PINK-WHITE F3
- WHITE - BLUE F4
- BLACK F7

Frame	ORCA CARBON OMP, MONOCOQUE, TAPPERED 1-1/8" - 1,5", PF 86,5MM - Ø41MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,5 MM SEAT TUBE.
Fork	ORCA OMP CARBON FORK, FULL CARBON STEERER, TAPPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	SHIMANO ULTEGRA 6800 34X50
	SHIMANO ULTEGRA 6800 39X53
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	FSA ENERGY COMPACT
	FSA K-FORCE COMPACT
Stem	FSA ENERGY
	FSA OS-99 CSI
Shifters	SHIMANO ULTEGRA 6800
Brakes	SHIMANO ULTEGRA 6800
Rear Derailleur	SHIMANO ULTEGRA 6800
Front Derailleur	SHIMANO ULTEGRA 6800
Chain	SHIMANO ULTEGRA 6800
Wheels	MAVIC KSYRIUM EQUIPE
	MAVIC KSYRIUM SLR
	MAVIC KSYRIUM ELITE
	VISION TRIMAX T30 CLINCHER
	VISION METRON 40 CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
	SHIMANO ULTEGRA 6800 11-25 11-SPEED
Tires	MAVIC YKSION COMP 700X23
Pedals	N/A
Seatpost	FSA SL-K SB20 27.2X350MM
Saddle	PROLOGO SCRATCH 2 TIROX SIZE 134 MM

Orca



ORCA M30

CODE	D117
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

- WHITE - RED F1
- BLUE-PINK F2
- PINK-WHITE F3
- WHITE - BLUE F4
- BLACK F7

Frame	ORCA CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	SHIMANO 105 5800 34X50
	SHIMANO 105 5800 39X53
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA ENERGY COMPACT
	FSA K-FORCE COMPACT
Stem	FSA ENERGY
	FSA OS-99 CSI
Shifters	SHIMANO 105 5800
Brakes	SHIMANO 105 5800
Rear Derailleur	SHIMANO 105 5800
Front Derailleur	SHIMANO 105 5800
Chain	SHIMANO HG600
Wheels	MAVIC AKSIUM
	MAVIC KSYRIUM EQUIPE
	VISION TRIMAX T30 CLINCHER
	VISION TEAM 30
Cassette	SHIMANO 105 5800 11-28 11-SPEED
	SHIMANO 105 5800 12-25 11-SPEED
Tires	MAVIC AKSION 700X23 60TPI
Pedals	N/A
Seatpost	FSA SL-K SB20 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM


AVANT

AVANT



FROM HERE TO THERE... AND THE CHALLENGES ON THE WAY.

Avant is a state of mind - The embodiment of satisfaction and joy of riding. It means planning an experience… and living it. Avant is the strength of accepting a test and meetizng it head-on. It is the feeling of contentment as your tired legs celebrate every rlution of the pedals between you and your destination. Avant takes you from here to there and has the versatility to meet any challenges on the way.

Flexibility and utility have been the undercurrents for its development - mechanical or electronic shifting, rim brakes or disc calipers, from one hub width to the next. These technical feats are integral to the Avant's love of the open road – any road. In fact, the Avant can take tires up to 28mm for journeys where the pavement resembles gravel more than tarmac. We are proud of its versatility. No matter where you choose to ride, this bike can be outfitted properly – quickly install fenders for rainy climates and racks if you choose to ride for adventure. The discreet mounts are virtually hidden when the bike is prepared without them.

With so many options and such capacity for personalization the question is clear: How do you want to ride the Avant?

Name	ORBEA AVANT
Category	ROAD
Fit	STACK & REACH/ PROGRESSIVE SIZING
Aerodynamics	DISC VS RIM BRAKES
Construction	ORBEA MONOCOQUE/ PRESS FIT BOTTOM BRACKET/ EC/DC INTERNAL CABLE/ TAPERED HEAD TUBE
Versatlity	DISC OR RIM BRAKES/ DROPOUT SPACING/ MECHANICAL OR ELECTRONIC SHIFTING/ DISCREET FENDER, RACK AND BRAKE MOUNTS/ TIRES UP TO 28MM
Orbea values	LIFETIME WARRANTY/ ORBEA DESIGN

HISTORY

THE AVANT NAME

A PEACE TREATY AND A CYCLING ROUTE

Is it surprising to learn that the name of our new Avant dates back nearly 650 years? In 1375 the people of two opposing Pyrenean valleys, one Spanish and one French, made peace after years of border disputes. The local officials created an agreement through which the French surrendered three cows to the Navarrese each year in exchange for grazing rights. Since that time, every year there is a celebration that recreates the original pact, (cows included!) that finishes with the same two words: Pax Avant. Or roughly translated, “from this day forward, peace”

Orbea celebrates that concord with a cycling experience that runs through the two territories. The Pax Avant event blends the charm of beautiful Pyrenean villages with the intensity and challenge of the Pyrenean landscapes. The Orbea Avant road bike is the ideal machine for this route. Everything is ready, do you feel like pedaling?







A LOT OF EXCITEMENT IN ONLY TWO YEARS

2013
AVANT IS INTRODUCED TO THE CYCLING WORLD.

Avant's reception was nothing short of astounding, winning "best of" awards from cycling publications everywhere.
The response showed Orbea and the world that there are cyclists everywhere who want a road bike that is built for more than racing. Riders want a tool that can keep up with their passion. A bike that can go frome here to there. no matter where that might be.

BEST DISC ROAD BIKE - 2013
VeloNews

BEST DISC BIKE - 2014
Cycling Plus

2014
THE LUTION CONTINUES.

This season, we have expanded the Avant family with the addition of a second carbon option – the Avant OME platform. The Avant OME frameset shares many features with the Avant OMP including our refined Avant geometry, Reach and Stack fit philosophy and lifetime warranty. But the Avant OME does so at a lower price, bringing Orbea Monocoque carbon construction to an entirely new group of riders.



WHAT MAKES THE AVANT UNIQUE?

We created the Avant for the rider who's cycling experiences go far beyond the summer race course. A bike fit that reduces fatigue and is designed to go the distance is perfect for the biggest challenges – Gran fondos, dirt road epics and marathon events. A shorter reach and higher stack conserve energy by putting you in an optimal body position for long rides.

Flexibility and utility have been the undercurrents for its development - mechanical or electronic shifting, rim brakes or disc calipers, from one hub width to the next. The Avant is perfect for spring racing on bad roads or in wet climates, where fenders and wide tires are an essential component.

These technical feats are integral to the Avant's love of the open road – any road. We are proud of its versatility. No matter where you choose to ride, this bike can be outfitted properly – quickly install fenders for rainy climates to keep road spray off your feet and your riding partners. Avant is the perfect endurance machine.

01/ ERGONOMICS

02/ COMFORT

03/ VERSATILITY

04/ ENDURANCE GEOMETRY


ORBEA
ORBEA
AVANT




AVANT


SMS
AVANT

DESIGN

01/ ERGONOMICS

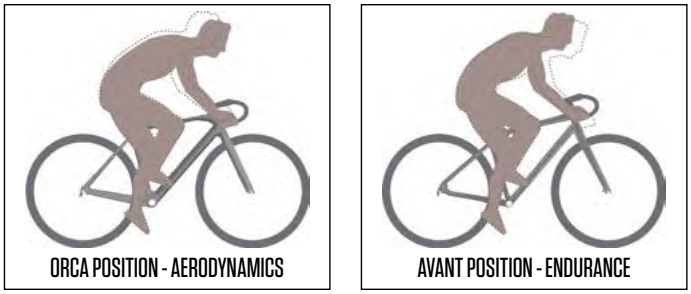
A BIKE FIT THAT GOES THE DISTANCE

Many of our competitors approach this bike category from a competition aspect, implying simply that team use delivers a better, faster product. We take a more nuanced view: we already know that Avant riders are strong cyclists – yes they can already ride fast. But they also want a more efficient position on the Avant to cover long distances and all types of terrain. Avant riders create their own Spring Classics all year on every type of route.

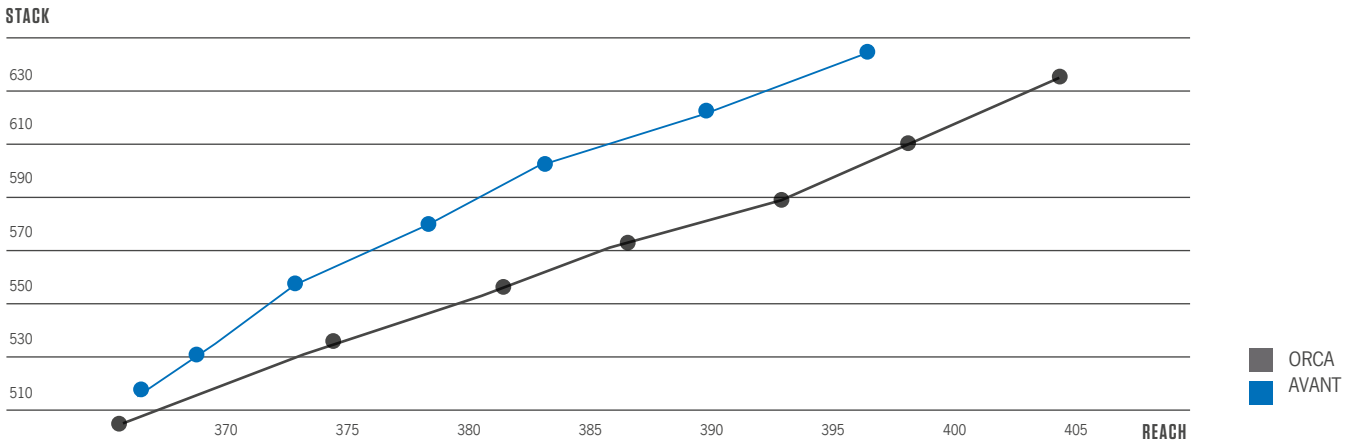
Ergonomics play an important role in endurance and comfort. The rider's postion on the Avant saves energy on extended rides. Avant in not focused on how fastyou can climb, but rather on much energy you can save to climb longer.

RIDER POSITION

LESS FATIGUE



Comparing the rider position on the Orca to the rider position on the Avant, it is easy to see the changes. They are subtle, but add up to a more comfortable ride after several hours in the saddle



02/ COMFORT

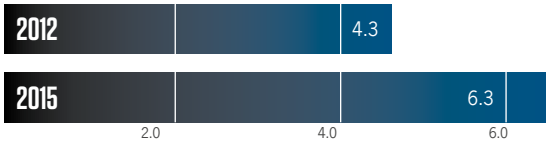
COMFORT IMPROVES ENDURANCE

Comfort doesn't mean lower intensity – it means that the Avant will reduce stresses on your body so you can dedicate every gram of energy to the pedal stroke long into the ride. Vertical stiffness supported on specific seat stay shapes and seat tube diameter provides less stress on your body.

Small differences in geometry can make big differences in comfort during the ride. It isn't only about a higher stack and shorter reach but also specific wheelbase and chainstay lengths that add stability, decrease vibration and further reduce energy demands.

HELPS THE BODY RIDE LONGER

RIDE LONGER



48%
MORE COMFORTABLE



DESIGN

VERSATILITY

THE RIGHT EQUIPMENT MAKES ALL THE DIFFERENCE

Bike setup and component choice play a large part in endurance efforts. Riding in comfort means an opportunity to be stronger and ride longer. Avant makes this possible by giving you a choice of technical solutions:
Disc brakes, larger tires or fenders are just a few options that are capable of improving the quality of your ride.





MECHANICAL OR ELECTRONIC SHIFTING

The once-clear choice between mechanical and electronic shifting has blurred as electronic options come down in cost. The Avant is built with both in mind. We call this feature EC/DC. The internal routing system is compatible with traditional cables or the more modern, electronic wiring systems. The Avant is available as a Di2 complete bike with a hidden, seatpost-mounted battery.

TIRES UP TO 28MM

To enhance the adventurous spirit of the Avant we designed it to fit 28mm tires. As the popularity of gravel road riding and racing has blossomed, the advantage with larger tires is reduced chance for punctures. They also significantly increase comfort during long days in the saddle.



CALIPER OR DISC BRAKES

The Avant is unique in that it is compatible with traditional caliper rim brakes as well as disc brakes. We offer models using both options, and the ability to make a swap from one brake style to the other is easy. The frame is designed so that mounting hardware for the disc brakes is removable - leaving nothing to detract from the aesthetics of the bike.



DROPOUT SPACING OPTIONS

With disc brakes in mind, we designed the Avant to be compatible with 135mm and 130mm hub widths. The reason for this is simple - as the road disc standard develops, we wanted the bike to be compatible with any wheelset you might choose. The conversion is simple and consists of removable dropout chips that change the spacing.



DISCREET FENDER & RACK MOUNTS

No matter where you choose to ride, this bike can be outfitted properly. Racks can be installed for light/fast touring. Integrated fender mounts make the Avant a perfect “rain bike” for wet climates or early spring races. If you don’t need the extra equipment, the discreet mounting bosses won’t attract attention at the group ride on Sunday.

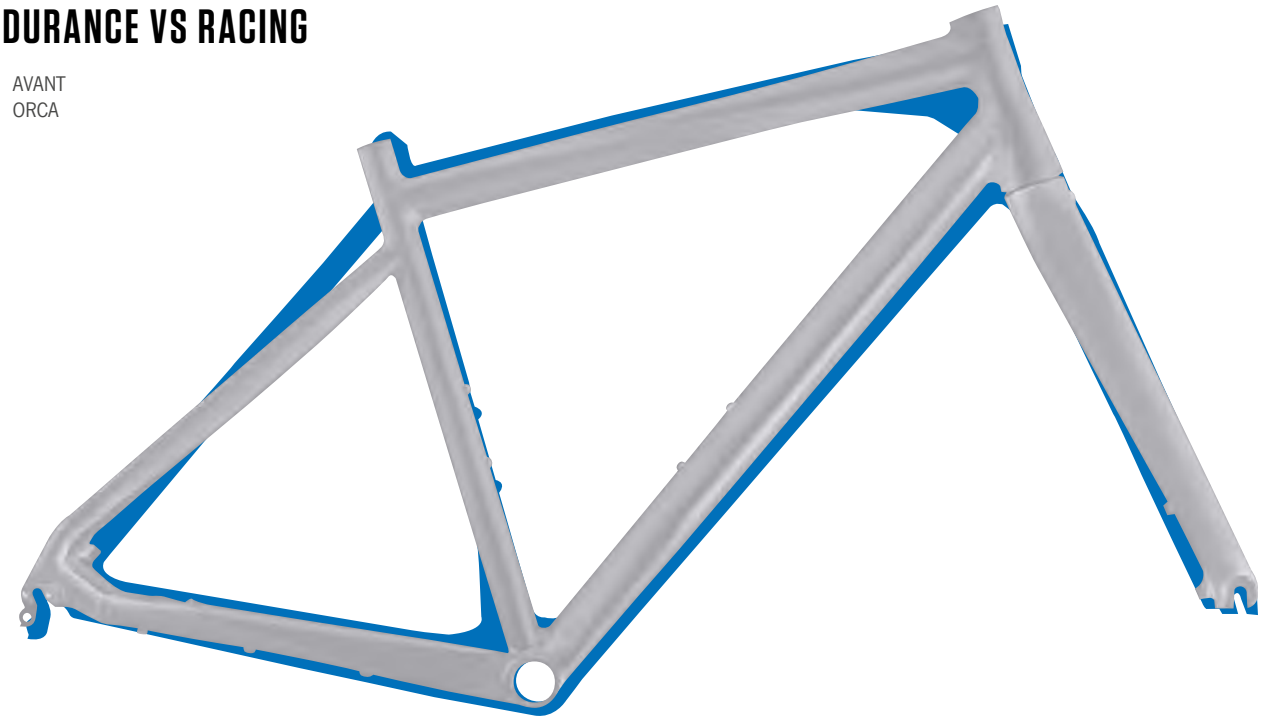
DESIGN

04/ WHAT IS ENDURANCE GEOMETRY

It allows cyclists to save energy and ride for significantly longer distances with less fatigue. The distance between axles is longer, which means the bike is stable, easy to handle and has very good vibration absorption. A higher stack and shorter reach allow for a relaxed position, which reduces riding fatigue after a long ride.

ENDURANCE VS RACING

AVANT
ORCA







SMART SIZING TO FIT THE WIDEST RANGE OF MEN AND WOMEN

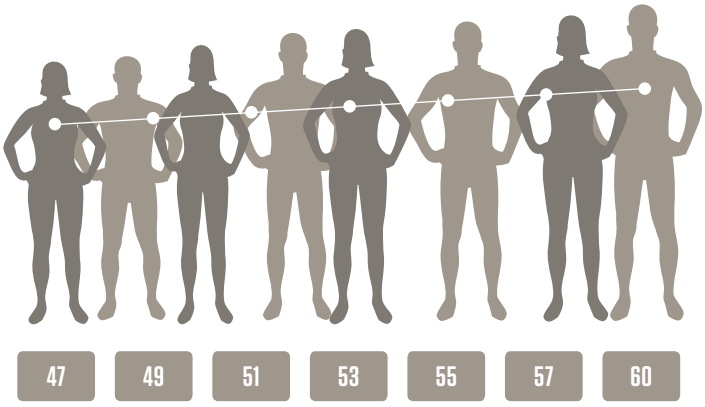
Stack and reach are important measurements because they define the spatial relationships of two important contact points between your body and the bike – pedals and handlebars. Stack is the vertical distance from the center of the bottom bracket to the top of the headtube. Reach is the horizontal distance from the center of the bottom bracket to that same point - the top center of the headtube.
An understanding of stack and reach can explain why many small bikes don't fit well. There are instances in the market when the smallest sizes do not offer shorter reach measurements and do not bring the head tube (therefore the handlebars) any closer to the rider than the next bigger size. How does the manufacturer advertise a full size range then, based on top tube lengths?

What we're suggesting is an revolution in bike geometry. It's a different way to look at how to design and build bike frames that allows the Avant to fit a wider range of men and women and follow a more linear size progression. The new size range includes 47, 49, 51, 53, 55, 57, and 60cm sizes and ensures that anyone can ride an Avant, no matter how large or small. The progressive sizing ensures that our 47cm bike indeed offers the smallest fit and that subsequent sizes grow in a linear and predictable fashion.

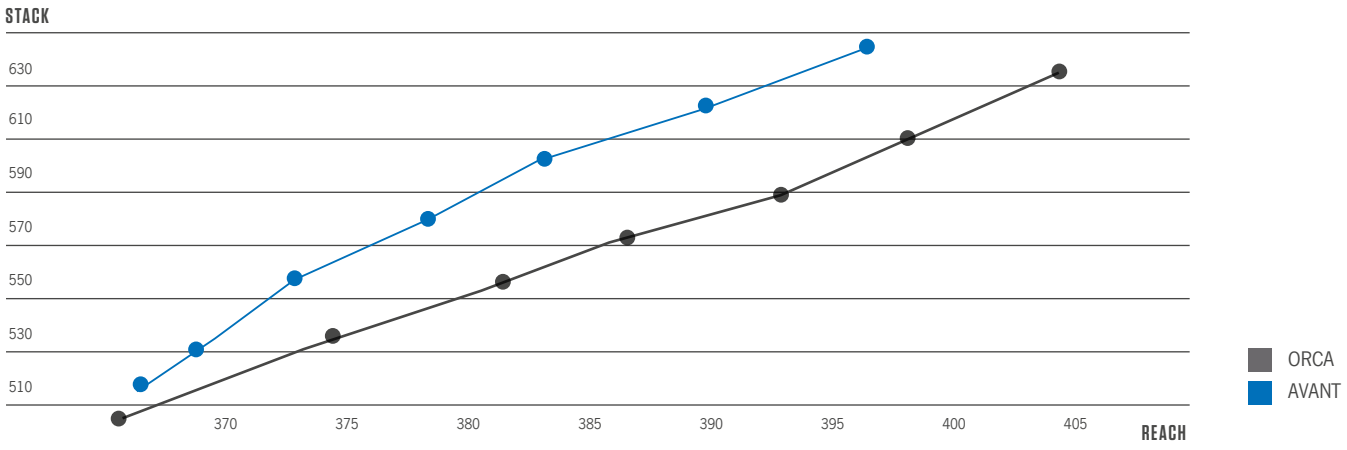
FITS MORE PEOPLE BETTER

WOMEN AND MEN FIT UNIVERSALLY

CONSTISTENT STACK AND REACH SCALING



ORCA VS AVANT - STACK AND REACH



GEO CHART / AVANT OMP

GEOMETRY

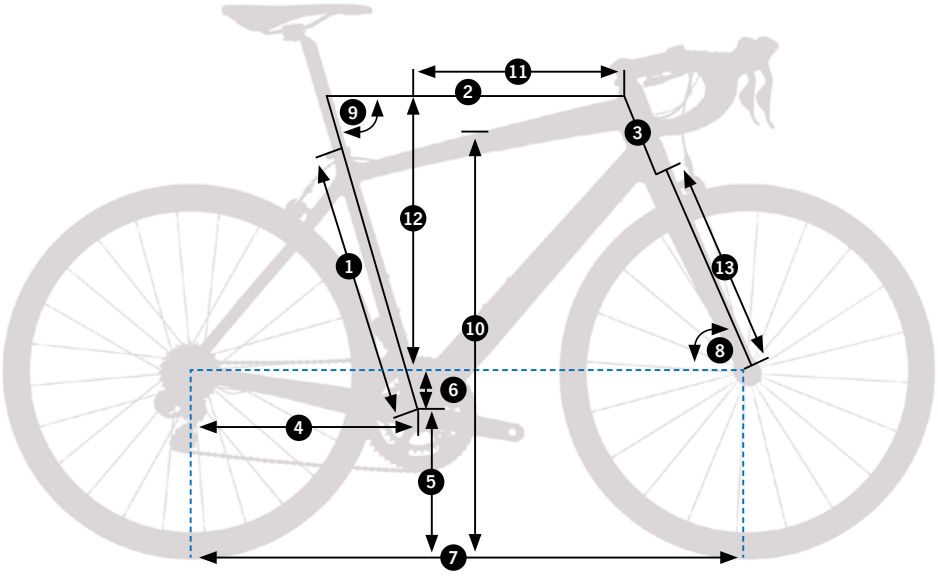
SIZE	47	49	51	53	55	57	60
1 – Seat Tube (C – T)	410	440	470	490	510	530	560
2 – Top Tube (EFF)	516.2	525.8	535.2	548.1	563.4	579.6	594.8
3 – Head Tube	113	132	150.1	165	187.6	205	226
4 – Chainstay	414	414	414	414	418	418	418
5 – BB Height	269	269	269	269	269	269	269
6 – BB Drop	72.5	72.5	72.5	72.5	72.5	72.5	72.5
7 – Wheelbase	978	986.6	992.9	993.7	1005.3	1014	1023.8
8 – Head Angle	71.2º	71.4º	71.8º	72º	72.5º	73º	73º
9 – Seat Angle	73.5º	73.5º	73.5º	73.5º	73.2º	73º	73º
10 – Standover	714	729	763	781	796	813	838
11 – Reach	363	367.1	371	378.4	383.4	391.7	400
12 – Stack	517.4	535.8	554.8	572.8	596.1	614.6	636.5
13 – Fork Length	375	375	375	375	375	375	375

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
47	170	90	380
49	170	100	380
51	170	100	420
53	170	100	420
55	172.5	110	420
57	172.5	110	440
60	175	110	440

SIZE

HEIGHT (cm)	SIZE
155 – 160	47
160 – 166	49
167 – 172	51
173 – 179	53
180 – 185	55
186 – 191	57
192 – 207	60



GEO CHART / AVANT OME

GEOMETRY

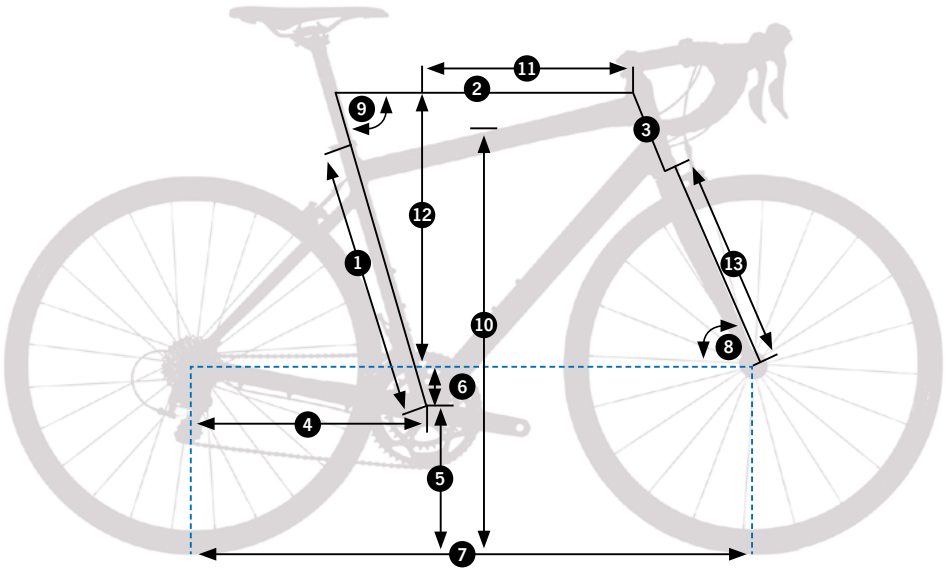
SIZE	47	49	51	53	55	57	60
1 – Seat Tube (C – T)	410	440	470	490	510	530	560
2 – Top Tube (EFF)	516.2	525.8	535.2	548.1	563.4	579.6	594.8
3 – Head Tube	113	132	150.1	165	187.6	205	226
4 – Chainstay	414	414	414	414	418	418	418
5 – BB Height	269	269	269	269	269	269	269
6 – BB Drop	72.5	72.5	72.5	72.5	72.5	72.5	72.5
7 – Wheelbase	978	986.6	992.9	993.7	1005.3	1014	1023.8
8 – Head Angle	71.2º	71.4º	71.8º	72º	72.5º	73º	73º
9 – Seat Angle	73.5º	73.5º	73.5º	73.5º	73.2º	73º	73º
10 – Standover	708.5	720.5	754	774.5	797	817.5	841.5
11 – Reach	363	367.1	371	378.4	383.4	391.7	400
12 – Stack	517.4	535.8	554.8	572.8	596.1	614.6	636.5
13 – Fork Length	375	375	375	375	375	375	375

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
47	170	90	380
49	170	100	400
51	170	105	420
53	170	100	420
55	172.5	110	420
57	172	110	440
60	175	110	440

SIZE

HEIGHT (cm)	SIZE
155 – 160	47
160 – 166	49
167 – 172	51
173 – 179	53
180 – 185	55
186 – 191	57
192 – 207	60



GEO CHART / AVANT ALU

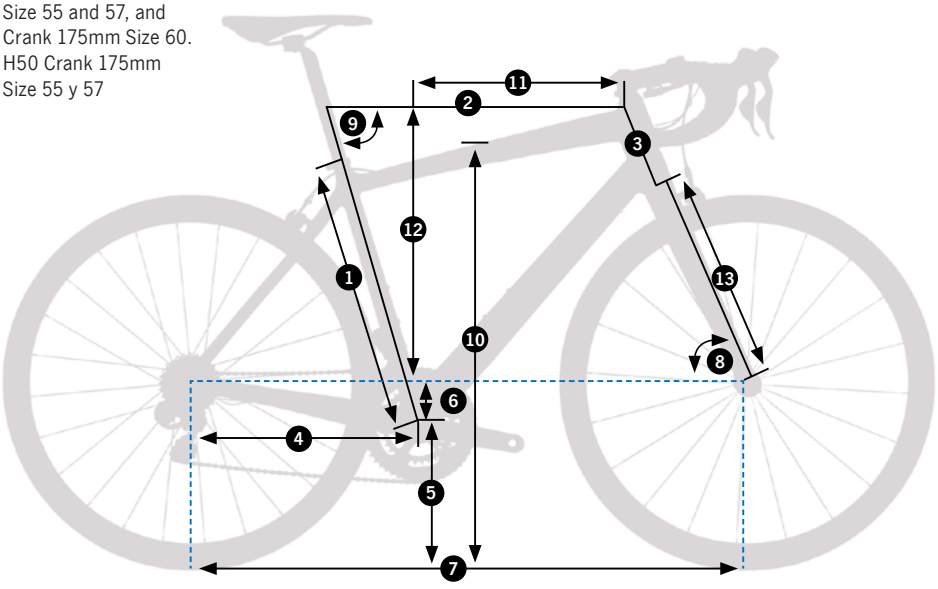
GEOMETRY

SIZE	47	49	51	53	55	57	60
1 – Seat Tube (C – T)	410	440	470	490	510	530	560
2 – Top Tube (EFF)	517.8	527.3	536.5	549.1	563.9	579.6	594.4
3 – Head Tube	113	131.7	150.1	165	188	205	226
4 – Chainstay	414	414	414	414	418	418	418
5 – BB Height	257.5	257.5	257.5	257.5	257.5	257.5	257.5
6 – BB Drop	72.5	72.5	72.5	72.5	72.5	72.5	72.5
7 – Wheelbase	978	986.5	992.8	993.7	1005.3	1014	1023.8
8 – Head Angle	71,2º	71,4º	71,8º	72º	72,5º	73º	73,5º
9 – Seat Angle	73,5º	73,5º	73,5º	73,5º	73,2º	73º	73º
10 – Standover	392.1	419.5	447.1	468	488.9	511.2	536.4
11 – Reach	363	367.1	370.9	378.4	383.4	391.7	400.2
12 – Stack	517.4	535.8	554.8	572.8	596.1	614.6	636.5
13 – Fork Length	375	375	375	375	375	375	375

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
47	170	90	380
49	170	100	400
51	170	100	420
53	170	100	420
55	170	110	420
57	170	110	440
60	170	110	440

H30D Crank 172,5mm
Size 55 and 57, and
Crank 175mm Size 60.
H50 Crank 175mm
Size 55 y 57



SIZE

HEIGHT (cm)	SIZE
155 – 160	47
160 – 166	49
167 – 172	51
173 – 179	53
180 – 185	55
186 – 191	57
192 – 207	60

CONSTRUCTION

MATERIALS

ORBEA MONOCOQUE CARBON

Monocoque guarantees a carbon structure with optimum performance and long term reliability and it's the only way we've ever done it. We mold the one-piece structures so that each tube is connected to the next, with continuous fibers through each critical juncture. As you ride, your bike will be subjected to a variety of forces – tension, compression, torsion, etc. Our monocoque frames allow optimal distribution of these forces over the entire structure because of the perfect fusion of the composite materials.

OMP

Orbea Monocoque Performance carbon consists of high modulus fibers that provide stiffness and vibration absorption for maximum efficiency.

OME

Orbea Monocoque lution carbon takes advantage of blending high modulus fibers with standard carbon fibers to reach an optimum balance of performance, durability, and value.

HYDROFORMED ALLOY

We manipulate the shapes and wall-thickness of our aluminum tubing to increase strength and resistance to unwanted flex. Many of the tubes are butted to save weight in the middle of the tubes, away from the stress of the joints and the weld zones. Using aluminum technologies as advanced as our carbon manufacturing ensures our aluminum bikes are never second-best.

Avant is intended for the widest range of cyclists. This is why Orbea Monocoque Performance (OMP) and Orbea Monocoque lution (OME) carbon fibers were chosen. Avant is also available in Hydroformed Alloy to offer the most complete range.



CONSTRUCTION

FRAME FEATURES AND DETAILS



EC/DC

The Orbea EC/DC or Electronic Circuit/Direct Cable system is compatible with electronic or mechanical shifting - the choice is yours to make. EC/DC relies on built-in pathways that ease the installation of cables or wires and results in streamlined, flawless shifting performance.

INTERNAL DCR

DCR (Direct Cable Routing) protects the cables, reduces friction and enhances durability. Thanks to full cable sealing and internal routing, contamination is lessened and friction reduced by up to 25%. There is a lighter and more precise feel at the levers - function, simplicity, and tidiness are paramount. Less cable housing means that system weight is reduced.





PRESS FIT

The Avant is designed around a PressFit (PF86) bottom bracket shell. The wider shell ensures optimal stiffness.

TAPERED HEADTUBE

The Avant features an oversized, tapered headtube (1–1/8"–1.5") in both the OMP and OME models to add stiffness and steering precision.



AVANT



AVANT M10

CODE	D116
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

CARBON BLUE
B1

RED-CARBON
B2

CARBON-PINK
B3

Frame	AVANT CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, INTERNAL CABLE ROUTING, EC/ DC COMPATIBLE, DISC BRAKE COMPATIBLE, 135MM - 130MM CONVERTIBLE REAR SPACING, 27,2 MM SEAT TUBE.
Fork	AVANT OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", DISC BRAKE COMPATIBLE, INTERNAL CABLE ROUTING, CARBON DROPOUTS
Crankset	SHIMANO DURA-ACE 9000 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA GOSSAMER COMPACT
	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	FSA GOSSAMER PRO
	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO DURA-ACE 9000
Brakes	SHIMANO DURA-ACE 9000
Rear Derailleur	SHIMANO DURA-ACE 9000
Front Derailleur	SHIMANO DURA-ACE 9000
Chain	SHIMANO DURA-ACE 9000
Wheels	VISION TRIMAX T30 CLINCHER
	MAVIC KSYRIUM SLR
	VISION METRON 40 CLINCHER
Cassette	SHIMANO DURA-ACE 11-28 11-SPEED
	SHIMANO DURA-ACE 9000 11-25 11-SPEED
Tires	CHALLENGE FORTE RACE 700X23 120TPI
Pedals	N/A
Seatpost	FSA SL-K SB20 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM

AVANT



AVANT M20I DISC

CODE	D115
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

CARBON-BLUE
B1

RED-CARBON
B2

CARBON-PINK
B3

Frame	AVANT CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, INTERNAL CABLE ROUTING, EC/ DC COMPATIBLE, DISC BRAKE COMPATIBLE, 135MM - 130MM CONVERTIBLE REAR SPACING, 27,2 MM SEAT TUBE.
Fork	AVANT OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", DISC BRAKE COMPATIBLE, INTERNAL CABLE ROUTING, CARBON DROPOUTS
Crankset	SHIMANO ULTEGRA 6800 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA GOSSAMER COMPACT
	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	FSA GOSSAMER PRO
	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO R785
Brakes	SHIMANO R785 HYDRAULIC DISC
Rear Derailleur	SHIMANO ULTEGRA 6870 DI2
Front Derailleur	SHIMANO ULTEGRA 6870 DI2
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION TEAM 30 DISC CLINCHER
	VISION METRON 40 DISC CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
	SHIMANO ULTEGRA 6800 11-25 11-SPEED
Tires	CHALLENGE FORTE RACE 700X25 120TPI
Pedals	N/A
Seatpost	FSA SL-K DI2 SB20 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM

AVANT



AVANT M20I

CODE	D114
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

CARBON BLUE
B1

RED-CARBON
B2

CARBON-PINK
B3

Frame	AVANT CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, INTERNAL CABLE ROUTING, EC/ DC COMPATIBLE, DISC BRAKE COMPATIBLE, 135MM - 130MM CONVERTIBLE REAR SPACING, 27,2 MM SEAT TUBE.
Fork	AVANT OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", DISC BRAKE COMPATIBLE, INTERNAL CABLE ROUTING, CARBON DROPOUTS
Crankset	SHIMANO ULTEGRA 6800 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA GOSSAMER COMPACT
	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	FSA GOSSAMER PRO
	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO ULTEGRA 6870 DI2
Rear Brake	SHIMANO 105 5810
Rear Derailleur	SHIMANO ULTEGRA 6870 DI2
Front Derailleur	SHIMANO ULTEGRA 6870 DI2
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION TRIMAX T30 CLINCHER
	MAVIC KSYRIUM SLR
	VISION METRON 40 CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
	SHIMANO ULTEGRA 6800 11-25 11-SPEED
Tires	CHALLENGE FORTE RACE 700X23 120TPI
Pedals	N/A
Seatpost	FSA SL-K DI2 SB20 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM

AVANT



AVANT M20 DISC

CODE	D113
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

CARBON BLUE
B1

RED-CARBON
B2

CARBON-PINK
B3

Frame	AVANT CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, INTERNAL CABLE ROUTING, EC/ DC COMPATIBLE, DISC BRAKE COMPATIBLE, 135MM - 130MM CONVERTIBLE REAR SPACING, 27,2 MM SEAT TUBE.
Fork	AVANT OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", DISC BRAKE COMPATIBLE, INTERNAL CABLE ROUTING, CARBON DROPOUTS
Crankset	SHIMANO ULTEGRA 6800 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA GOSSAMER COMPACT
	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	FSA GOSSAMER PRO
	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO RS685
Brakes	SHIMANO R785 HYDRAULIC DISC
Rear Derailleur	SHIMANO ULTEGRA 6800
Front Derailleur	SHIMANO ULTEGRA 6800
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION TEAM 30 DISC CLINCHER
	VISION METRON 40 DISC CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
	SHIMANO ULTEGRA 6800 11-25 11-SPEED
Tires	CHALLENGE FORTE RACE 700X25 120TPI
Pedals	N/A
Seatpost	FSA SL-K SB20 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM

AVANT



AVANT M20

CODE	D112
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

CARBON BLUE
B1

RED-CARBON
B2

CARBON-PINK
B3

Frame	AVANT CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, INTERNAL CABLE ROUTING, EC/ DC COMPATIBLE, DISC BRAKE COMPATIBLE, 135MM - 130MM CONVERTIBLE REAR SPACING, 27,2 MM SEAT TUBE.
Fork	AVANT OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", DISC BRAKE COMPATIBLE, INTERNAL CABLE ROUTING, CARBON DROPOUTS
Crankset	SHIMANO ULTEGRA 6800 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA GOSSAMER COMPACT
	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	FSA GOSSAMER PRO
	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO ULTEGRA 6800
Rear Brake	SHIMANO 105 5810
Rear Derailleur	SHIMANO ULTEGRA 6800
Front Derailleur	SHIMANO ULTEGRA 6800
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION TEAM 30 CLINCHER
	MAVIC KSYRIUM SLR
	MAVIC KSYRIUM EQUIPE
	VISION TRIMAX T30 CLINCHER
	VISION METRON 40 CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
	SHIMANO ULTEGRA 6800 11-25 11-SPEED
Tires	VITTORIA RUBINO 700X23 60TPI
Pedals	N/A
Seatpost	FSA SL-K SB20 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM

AVANT



AVANT M30 DISC

CODE	D111
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

CARBON BLUE
B1

RED-CARBON
B2

CARBON-PINK
B3

Frame	AVANT CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, INTERNAL CABLE ROUTING, EC/ DC COMPATIBLE, DISC BRAKE COMPATIBLE, 135MM - 130MM CONVERTIBLE REAR SPACING, 27,2 MM SEAT TUBE.
Fork	AVANT OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", DISC BRAKE COMPATIBLE, INTERNAL CABLE ROUTING, CARBON DROPOUTS
Crankset	FSA GOSSAMER 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA GOSSAMER COMPACT
	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	FSA GOSSAMER PRO
	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO RS685
Brakes	SHIMANO R785 HYDRAULIC DISC
Rear Derailleur	SHIMANO 105 5800
Front Derailleur	SHIMANO 105 5800
Chain	SHIMANO HG600
Wheels	VISION TEAM 30 DISC CLINCHER
	VISION METRON 40 DISC CLINCHER
Cassette	SHIMANO 105 5800 11-28 11-SPEED
	SHIMANO 105 5800 12-25 11-SPEED
Tires	CHALLENGE FORTE RACE 700X25 120TPI
Pedals	N/A
Seatpost	FSA SL-K SB20 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM

AVANT



AVANT M30

CODE	D110
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

CARBON BLUE
B1

RED-CARBON
B2

CARBON-PINK
B3

Frame	AVANT CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, INTERNAL CABLE ROUTING, EC/ DC COMPATIBLE, DISC BRAKE COMPATIBLE, 135MM - 130MM CONVERTIBLE REAR SPACING, 27,2 MM SEAT TUBE.
Fork	AVANT OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", DISC BRAKE COMPATIBLE, INTERNAL CABLE ROUTING, CARBON DROPOUTS
Crankset	FSA GOSSAMER 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA GOSSAMER COMPACT
	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	FSA GOSSAMER PRO
	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO 105 5800
Brakes	SHIMANO 105 5800
Rear Derailleur	SHIMANO 105 5800
Front Derailleur	SHIMANO 105 5800
Chain	SHIMANO HG600
Wheels	VISION TEAM 30 CLINCHER
	MAVIC KSYRIUM EQUIPE
	VISION TRIMAX T30 CLINCHER
Cassette	SHIMANO 105 5800 11-28 11-SPEED
	SHIMANO 105 5800 12-25 11-SPEED
Tires	VITTORIA RUBINO 700X23 60TPI
Pedals	N/A
Seatpost	FSA SL-K SB20 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM

AVANT



AVANT M20SI

CODE	D109
SIZES	47, 49, 51, 53, 55, 57, 60
COLORS	

RED
B7

BLUE
B8

PINK
B9

Frame	AVANT CARBON OME, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130 OLD, 27,5 MM SEAT TUBE.
Fork	AVANT OME CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS.
Crankset	FSA GOSSAMER PRO 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA GOSSAMER COMPACT
	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	FSA GOSSAMER PRO
	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO ULTEGRA 6870 DI2
Brakes	FSA GOSSAMER PRO
Rear Derailleur	SHIMANO ULTEGRA 6870 DI2
Front Derailleur	SHIMANO ULTEGRA 6870 DI2
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION TEAM 30 CLINCHER
	MAVIC KSYRIUM EQUIPE
	VISION TRIMAX T30 CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
	SHIMANO ULTEGRA 6800 11-25 11-SPEED
Tires	CHALLENGE FORTE RACE 700X23 120TPI
Pedals	N/A
Seatpost	FSA SL-K DI2 SB20 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM

AVANT



AVANT M20S

CODE	D108
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

RED
B7

BLUE
B8

PINK
B9

Frame	AVANT CARBON OME, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130 OLD, 27,5 MM SEAT TUBE.
Fork	AVANT OME CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS.
Crankset	FSA GOSSAMER PRO 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA OMEGA COMPACT
	FSA K-FORCE COMPACT
	FSA ENERGY COMPACT
Stem	ORBEA OC-II
	FSA OS-99 CSI
	FSA ENERGY
Shifters	SHIMANO ULTEGRA 6800
Brakes	FSA GOSSAMER PRO
Rear Derailleur	SHIMANO ULTEGRA 6800
Front Derailleur	SHIMANO ULTEGRA 6800
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION TEAM 30 CLINCHER
	MAVIC KSYRIUM EQUIPE
	VISION TRIMAX T30 CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
	SHIMANO ULTEGRA 6800 11-25 11-SPEED
Tires	VITTORIA RUBINO 700X23 60TPI
Pedals	N/A
Seatpost	ORBEA OC-II CARBON 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM

AVANT



AVANT M30S

CODE	D107
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

RED
B7

BLUE
B8

PINK
B9

Frame	AVANT CARBON OME, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130 OLD, 27,5 MM SEAT TUBE.
Fork	AVANT OME CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS.
Crankset	FSA GOSSAMER 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA OMEGA COMPACT
Stem	ORBEA OC-II
Shifters	SHIMANO 105 5800
Brakes	FSA GOSSAMER PRO
Rear Derailleur	SHIMANO 105 5800
Front Derailleur	SHIMANO 105 5800
Chain	SHIMANO HG600
Wheels	VISION TEAM 25 CLINCHER
	MAVIC KSYRIUM EQUIPE
	VISION TRIMAX T30 CLINCHER
	VISION TEAM 30
Cassette	SHIMANO 105 5800 11-28 11-SPEED
	SHIMANO 105 5800 12-25 11-SPEED
Tires	VITTORIA RUBINO 700X23 60TPI
Pedals	N/A
Seatpost	ORBEA OC-II CARBON 27.2X350MM
Saddle	SELLE ITALIA X1

AVANT



AVANT M40S

CODE	D106
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

RED
B7

BLUE
B8

PINK
B9

Frame	AVANT CARBON OME, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130 OLD, 27,5 MM SEAT TUBE.
Fork	AVANT OME CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS.
Crankset	FSA OMEGA 34X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA OMEGA COMPACT
Stem	ORBEA OC-II
Shifters	SHIMANO TIAGRA
Brakes	ORBEA OC-II
Rear Derailleur	SHIMANO TIAGRA
Front Derailleur	SHIMANO TIAGRA
Chain	KMC X10
Wheels	SHIMANO R-500
Cassette	SHIMANO TIAGRA 12-28 10-SPEED
Tires	VITTORIA RUBINO 700X23 60TPI
Pedals	N/A
Seatpost	ORBEA OC-II CARBON 27.2X350MM
Saddle	SELLE ITALIA X1

AVANT



AVANT M40S FLAT

CODE	D142
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

RED
B7

BLUE
B8

PINK
B9

Frame	AVANT CARBON OME, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130 OLD, 27,5 MM SEAT TUBE.
Fork	AVANT OME CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS.
Crankset	FSA OMEGA 30X39X50
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	ORBEA FLAT ALU
Stem	ORBEA ADJUSTABLE
Shifters	SHIMANO TIAGRA
Brakes	ORBEA OC-II
Rear Derailleur	SHIMANO TIAGRA
Front Derailleur	SHIMANO TIAGRA
Chain	KMC X10
Wheels	SHIMANO R-500
Cassette	SHIMANO TIAGRA 12-28 10-SPEED
Tires	VITTORIA RUBINO 700X23 60TPI
Pedals	N/A
Seatpost	ORBEA OC-II CARBON 27.2X350MM
Saddle	SELLE ITALIA X1

AVANT



AVANT H30D

CODE	D105
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

- WHITE BB
- BLACK - PINK BD
- BLACK-BLUE BK
- WHITE - RED BG

Frame	AVANT HYDRO, HYDROFORMED TRIPLE BUTTED ALUMINUM, TAPPERED 1-1/8" - 1,5", DISC BRAKE COMPATIBLE, BB 68MM - BSC ENGLISH , INTERNAL CABLE ROUTING, 135-130 OLD, 27,5 MM SEAT TUBE
Fork	AVANT OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", DISC BRAKE COMPATIBLE, INTERNAL CABLE ROUTING, CARBON DROPOUTS
Crankset	FSA GOSSAMER 34X50
Headset	FSA 1-1/8"-11/2" INTEGRATED ALUMINIUM CUP ACB BEARINGS
Handlebar	ORBEA COMPACT
Stem	ORBEA ALUMINIUM
Shifters	SHIMANO 105 5800
Brakes	SHIMANO R517 MECHANICAL DISC
Rear Derailleur	SHIMANO 105 5800
Front Derailleur	SHIMANO 105 5800
Chain	SHIMANO HG600
Wheels	ORBEA R1800 DISC
Cassette	SHIMANO 105 5800 11-28 11-SPEED
Tires	VITTORIA ZAFIRO 700X25
Pedals	N/A
Seatpost	ORBEA OC-II CARBON 27.2X350MM
Saddle	SELLE ITALIA X1

AVANT



AVANT H30

CODE	D104
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

WHITE
BB

BLACK - PINK
BD

BLACK-BLUE
BK

WHITE - RED
BG

Frame	AVANT HYDRO, HYDROFORMED TRIPLE BUTTED ALUMINUM, HEADSET 1-1/8", BB 68MM - BSC ENGLISH , INTERNAL CABLE ROUTING, 130 OLD, 27,5 MM SEAT TUBE
Fork	ORBEA CARBON
Crankset	FSA GOSSAMER 34X50
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA COMPACT
Stem	ORBEA ALUMINIUM
Shifters	SHIMANO 105 5800
Brakes	ORBEA OC-II
Rear Derailleur	SHIMANO 105 5800
Front Derailleur	SHIMANO 105 5800
Chain	SHIMANO HG600
Wheels	VISION TEAM 25
Cassette	SHIMANO 105 5800 11-28 11-SPEED
Tires	VITTORIA ZAFIRO 700X23
Pedals	N/A
Seatpost	ORBEA OC-II CARBON 27.2X350MM
Saddle	SELLE ITALIA X1

AVANT



AVANT H40

CODE	D103
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

WHITE
BB

BLACK - PINK
BD

BLACK-BLUE
BK

WHITE - RED
BG

Frame	AVANT HYDRO, HYDROFORMED TRIPLE BUTTED ALUMINUM, HEADSET 1-1/8", BB 68MM - BSC ENGLISH , INTERNAL CABLE ROUTING, 130 OLD, 27,5 MM SEAT TUBE
Fork	ORBEA CARBON
Crankset	FSA OMEGA 34X50
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA COMPACT
Stem	ORBEA ALUMINIUM
Shifters	SHIMANO TIAGRA
Brakes	ORBEA OC-II
Rear Derailleur	SHIMANO TIAGRA
Front Derailleur	SHIMANO TIAGRA
Chain	KMC X10
Wheels	SHIMANO R-500
Cassette	SHIMANO TIAGRA 12-28 10-SPEED
Tires	VITTORIA ZAFIRO 700X23
Pedals	N/A
Seatpost	ORBEA OC-II CARBON 27.2X350MM
Saddle	SELLE ITALIA X1

AVANT



AVANT H50

CODE	D102
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

WHITE
BB

BLACK - PINK
BD

BLACK-BLUE
BK

WHITE - RED
BG

Frame	AVANT HYDRO, HYDROFORMED TRIPLE BUTTED ALUMINUM, HEADSET 1-1/8", BB 68MM - BSC ENGLISH , INTERNAL CABLE ROUTING, 130 OLD, 27,2 MM SEAT TUBE
Fork	ORBEA CARBON
Crankset	SHIMANO SORA 34X50
Headset	1-1/8" SEMI-INTEGRATED ALUMINIUM CUP
Handlebar	ORBEA COMPACT
Stem	ORBEA ALUMINIUM
Shifters	SHIMANO SORA
Brakes	ORBEA OC-II
Rear Derailleur	SHIMANO SORA
Front Derailleur	SHIMANO SORA
Chain	SHIMANO HG53
Wheels	ORBEA R1800
Cassette	SHIMANO SORA 12-27 9-SPEED
Tires	VITTORIA ZAFIRO 700X23
Pedals	N/A
Seatpost	ORBEA OC-I 27.2X350MM
Saddle	SELLE ITALIA X1

AVANT



AVANT H60

CODE	D101
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

WHITE
BB

BLACK - PINK
BD

BLACK-BLUE
BK

WHITE - RED
BG

Frame	AVANT HYDRO, HYDROFORMED TRIPLE BUTTED ALUMINUM, HEADSET 1-1/8", BB 68MM - BSC ENGLISH , INTERNAL CABLE ROUTING, 130 OLD, 27,2 MM SEAT TUBE
Fork	ORBEA CARBON
Crankset	SHIMANO CLARIS 34X50
Headset	1-1/8" SEMI-INTEGRATED ALUMINIUM CUP
Handlebar	ORBEA COMPACT
Stem	ORBEA ALUMINIUM
Shifters	SHIMANO CLARIS
Brakes	ORBEA OC-II
Rear Derailleur	SHIMANO CLARIS
Front Derailleur	SHIMANO CLARIS
Chain	KMC Z8
Wheels	ORBEA R1800
Cassette	SHIMANO HG50 13-26 8-SPEED
Tires	VITTORIA ZAFIRO 700X23
Pedals	VP ROAD ALLOY
Seatpost	ORBEA OC-I 27.2X350MM
Saddle	SELLE ITALIA X1

AVANT



AVANT H70

CODE	D100
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

WHITE
BB

BLACK - PINK
BD

BLACK-BLUE
BK

WHITE - RED
BG

Frame	AVANT HYDRO, HYDROFORMED TRIPLE BUTTED ALUMINUM, HEADSET 1-1/8", BB 68MM - BSC ENGLISH , INTERNAL CABLE ROUTING, 130 OLD, 27,2 MM SEAT TUBE
Fork	ORBEA CARBON
Crankset	SHIMANO TOURNEY 30X39X50
Headset	1-1/8" SEMI-INTEGRATED ALUMINIUM CUP
Handlebar	ORBEA COMPACT
Stem	ORBEA ALUMINIUM
Shifters	SHIMANO TOURNEY
Brakes	ORBEA OC-II
Rear Derailleur	SHIMANO TOURNEY
Front Derailleur	SHIMANO TOURNEY
Chain	KMC Z50
Wheels	ORBEA R1800
Cassette	SHIMANO HG20 12-28 7-SPEED
Tires	VITTORIA ZAFIRO 700X23
Pedals	VP ROAD ALLOY
Seatpost	ORBEA OC-I 27.2X350MM
Saddle	SELLE ITALIA X1

AVANT



AVANT H40 FLAT

CODE	D146
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

WHITE
BB

BLACK - PINK
BD

BLACK-BLUE
BK

WHITE - RED
BG

Frame	AVANT HYDRO, HYDROFORMED TRIPLE BUTTED ALUMINUM, HEADSET 1-1/8", BB 68MM - BSC ENGLISH , INTERNAL CABLE ROUTING, 130 OLD, 27,2 MM SEAT TUBE
Fork	ORBEA CARBON
Crankset	FSA OMEGA 30X39X50
Headset	1-1/8" SEMI-INTEGRATED ALUMINIUM CUP
Handlebar	ORBEA FLAT ALU
Stem	ORBEA ADJUSTABLE
Shifters	SHIMANO TIAGRA
Brakes	ORBEA OC-II
Rear Derailleur	SHIMANO TIAGRA
Front Derailleur	SHIMANO TIAGRA
Chain	KMC X10
Wheels	SHIMANO R-500
Cassette	SHIMANO TIAGRA 12-28 10-SPEED
Tires	VITTORIA ZAFIRO 700X23
Pedals	N/A
Seatpost	ORBEA OC-II CARBON 27.2X350MM
Saddle	SELLE ITALIA X1

AVANT



AVANT H50 FLAT

CODE	D145
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

WHITE
BB

BLACK - PINK
BD

BLACK-BLUE
BK

WHITE - RED
BG

Frame	AVANT HYDRO, HYDROFORMED TRIPLE BUTTED ALUMINUM, HEADSET 1-1/8", BB 68MM - BSC ENGLISH , INTERNAL CABLE ROUTING, 130 OLD, 27,2 MM SEAT TUBE
Fork	ORBEA CARBON
Crankset	SHIMANO SORA 30X39X53
Headset	1-1/8" SEMI-INTEGRATED ALUMINIUM CUP
Handlebar	ORBEA FLAT ALU
Stem	ORBEA ADJUSTABLE
Shifters	SHIMANO SORA
Brake levers	SHIMANO SORA FLAT
Brakes	ORBEA OC-II
Rear Derailleur	SHIMANO SORA
Front Derailleur	SHIMANO SORA
Chain	SHIMANO HG53
Wheels	ORBEA R1800
Cassette	SHIMANO SORA 12-27 9-SPEED
Tires	VITTORIA ZAFIRO 700X23
Pedals	N/A
Seatpost	ORBEA OC-I 27.2X350MM
Saddle	SELLE ITALIA X1

AVANT



AVANT H60 FLAT

CODE	D144
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

- WHITE BB
- BLACK - PINK BD
- BLACK-BLUE BK
- WHITE - RED BG

Frame	AVANT HYDRO, HYDROFORMED TRIPLE BUTTED ALUMINUM, HEADSET 1-1/8", BB 68MM - BSC ENGLISH , INTERNAL CABLE ROUTING, 130 OLD, 27,2 MM SEAT TUBE
Fork	ORBEA CARBON
Crankset	SHIMANO CLARIS 30X39X50
Headset	1-1/8" SEMI-INTEGRATED ALUMINIUM CUP
Handlebar	ORBEA FLAT ALU
Stem	ORBEA ADJUSTABLE
Shifters	SHIMANO CLARIS
Brake levers	SHIMANO CLARIS FLAT
Brakes	ORBEA OC-II
Rear Derailleur	SHIMANO CLARIS
Front Derailleur	SHIMANO CLARIS
Chain	KMC Z8
Wheels	ORBEA R1800
Cassette	SHIMANO HG50 13-26 8-SPEED
Tires	VITTORIA ZAFIRO 700X23
Pedals	VP ROAD ALLOY
Seatpost	ORBEA OC-I 27.2X350MM
Saddle	SELLE ITALIA X1

AVANT



AVANT H70 FLAT

CODE	D143
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

- WHITE BB
- BLACK - PINK BD
- BLACK-BLUE BK
- WHITE - RED BG

Frame	AVANT HYDRO, HYDROFORMED TRIPLE BUTTED ALUMINUM, HEADSET 1-1/8", BB 68MM - BSC ENGLISH , INTERNAL CABLE ROUTING, 130 OLD, 27,2 MM SEAT TUBE
Fork	ORBEA CARBON
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED ALUMINIUM CUP
Handlebar	ORBEA FLAT ALU
Stem	ORBEA ADJUSTABLE
Shifters	SHIMANO M310
Brake levers	SHIMANO CLARIS FLAT
Brakes	ORBEA OC-II
Rear Derailleur	SHIMANO TOURNEY
Front Derailleur	SHIMANO CLARIS
Chain	KMC Z50
Wheels	ORBEA R1800
Cassette	SHIMANO HG20 12-28 7-SPEED
Tires	VITTORIA ZAFIRO 700X23
Pedals	VP ROAD ALLOY
Seatpost	ORBEA OC-I 27.2X350MM
Saddle	SELLE ITALIA X1


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TRIATHLON2015


A2 WIND TUNNEL LLC
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DEVELOPED SLOWLY TO BE THE FASTEST.

Our goals for the new Ordu focused on improvements in three key areas - Ergonomics, Aerodynamics, and Ride Quality. These improvements are the result of feedback from our sponsored athletes, from comments from other riders in forums and blogs, from exhaustive development in our design and engineering departments, and from weeks spent in the wind tunnel. In the end, the new Ordu meets these goals and offers less aerodynamic drag and a better rider/ bike interface. This results in more comfort for you, saves you energy, and allows you to go faster.

Name	ORBEA ORDU
Use	COMPETITION
Construction	ORBEA MONOCOQUE
Materials	ORBEA CARBON
Technology	FIT FIRST/ AERODYNAMICS/ RIDE QUALITY
Orbea values	LIFETIME WARRANTY/ ORBEA DESIGN

* Bike of the Year for the Triatlón magazine readers.

HISTORY

ORDU

Ordu translates to “moment” in the Basque language. It seems the perfect name for a bike created to capture all the efforts of training and distill them into the present, a single focus in time. Joateko Ordua - It is time to go.





For the last decade, the Ordu has been the most dominant bicycle in professional triathlon. It has been on the top step of the podium at nearly every major event worldwide, winning multiple championships at all triathlon distances including Ironman, 70.3, and Olympic distance.

And with great success, comes great expectations. The new Ordu was built to shatter those and to help you do the same to your personal best out on course. The Ordu lution started with Computational Fluid Dynamics (CFD). We employ CFD to help us test our new bikes in a virtual wind tunnel to refine the shape before creating prototypes that we can test in the wind tunnel. Once we're satisfied with a shape, we employ rapid prototyping for actual wind tunnel testing. It is this multi-stage process, with continuous refinement and testing that creates a more aerodynamic machine.



WHAT MAQUES THE ORDU OMR UNIQUE?

Our goals for the new Ordu focused on improvements in three key areas - Ergonomics, Aerodynamics, and Ride Quality. These improvements are the result of feedback from our sponsored athletes, from comments from other riders in forums and blogs, from exhaustive development in our design and engineering departments, and from weeks spent in the wind tunnel. In the end, the new Ordu meets these goals and offers less aerodynamic drag and a better rider/ bike interface. This results in more comfort for you, saves you energy, and allows you to go faster.

01/ FIT FIRST

02/ RIDE QUALITY

03/ AERODYNAMICS


ORBEA
orca
52


Orbea
ORBEA


ORBEA



FEATURES

01/ FIT FIRST

Beyond any other factor in high performance cycling, optimized fit between rider and bike is the foremost attribute we strive for. We designed this Ordu using a Fit First philosophy.

Beginning with Dan Empfield's Stack and Reach concept and the experience of fitting thousands of athletes on Triathlon and Time Trial Bikes, we adjusted our fit coordinates to reflect the needs of today's athlete.

Our unique Monolink stem system is highly adjustable and offers a wide range of height adjustment without using shims. Each Ordu comes complete with four stem lengths – 75, 90, 100, 110mm. This way, you can be sure of a comfortable, fast fit. The stem design accepts any base bar with a 31.8mm clamp, so you won't be limited to a proprietary base bar. We also made sure that any standard front brake can be used. You choose - You win.

Like the stem, the Monolink seatpost offers an easy way to customize your fit. You'll be able to fine-tune your position with a total of four degrees of fore and aft adjustment from the base 78° seat tube angle. The total effective seat angle range is 76° to 80°. Each bike comes with dual-rail adapters for the seatpost. This way you can use your favorite saddle if it is not Monolink compatible.

For smaller riders, our extra small Ordu uses 650c wheels to provide an uncompromised fit.



02/ RIDE QUALITY

The fork and rear triangle of the new Ordu have been designed with improved shaping to optimize performance. We've used this technology in our Orca road bikes, and it has been proven in grueling World Tour races worldwide.

The feedback from team riders was so positive that we were compelled to offer it on the new Ordu. In the same way, the Ordu uses Attraction to dissipate vibrations from the road surface. It's a way to make you more comfortable and help you get through your ride with less fatigue. With Attraction, comfort is achieved while maintaining lateral stiffness, thereby maximizing performance on the bike with optimal pedaling efficiency.

As our flagship TT/Triathlon bike, the Ordu is built with our finest materials. Here, we use Orbea Carbon Fiber. It's a blend of ultra-high modulus fibers used in order to offer the highest stiffness to weight ratio. The layup also receives the utmost attention to minimize superfluous grams and extract the greatest performance. Like our other models, the Ordu is built as a monocoque. This means that the frame is molded in one piece, with continuous, long fibers running through each tube intersection. The result is a frame strong enough to receive the Orbea Lifetime Warranty.

The carbon layup schedules (the number and orientation of the individual layers) are designed with each frame size in mind. The goal is to ensure that the Ordu offers a consistent ride quality across the size range. We call this Size Specific Nerve. The Ordu is built with four sizes, each tuned to an individual rider's size and body mass. This is how we can promise that performance is optimized and comfort is assured. You'll get to the finish line faster and fresher than ever.

Developed slowly to go fast, the new Orbea Ordu fits better and is faster and more comfortable than ever before. Join us for another decade of dominance.



FEATURES

03/ AERODYNAMICS

The leading edge of the bike received the highest priority for aerodynamic shaping. The Ordu is available with two different forks. A 1:3 UCI compliant fork will be the logical choice for athletes competing in sanctioned time trial events. For triathletes, we offer a non UCI compliant 1:4 fork that features a faster, more aerodynamic shape. Both fork versions are built with an integrated, structural nosecone that increases the chord length in this critical area of the bike, making it more slippery and smoothing the airflow across the frame. The fork is nestled in the frame using standard 1-1/8" integrated headset bearings to keep this area as narrow as possible. At only 38mm wide, it further decreases aerodynamic drag. In addition, these standard bearings are easily replaceable for routine maintenance. Any standard road bike front brake can be employed, making it user friendly and ready to accept the best the market has to offer.

The rear brake has been relocated to a concealed position underneath the chainstays. The brake arms are shrouded with a removable cover that ensures smooth airflow and protection from the elements. This lower brake position allowed us to redesign the critical seatstay/seat tube junction to reduce drag and smooth airflow over the rear wheel.

As a modern superbike, the Ordu gets completely internal cable routing. We've simplified the installation with one frame that allows mechanical or electronic shifting systems and effectively hides it all from the wind. The cables or wires enter the frame through the top tube just behind the stem, only to emerge where necessary to connect each individual component. We've limited the exposed cables to a bare minimum – every effort to shave precious grams of drag.

In total, we reduced the aerodynamic drag by 11% versus the old Ordu. Tests were run at various yaw angles at the industry standard 30mph. We found the greatest improvements in efficiency at "real world" yaw angles. That's to say that you'll rarely find yourself riding directly into a head wind at 0° yaw. As the wind approaches the Ordu from an angle of 10° off center, which is very common out on the road, it offers the greatest improvement over the old design.
Ny reduction in grams of drag is important because it takes less energy to propel the bicycle. This can mean one of two things: You'll be able to ride faster than the old bike at a given power output, or you can ride at the same pace with substantially less effort, saving your legs for the all-important run.

The new Ordu can save you up to 30 watts over the older bike at 10° yaw. Over the course of a 40km time trial, ridden at 25mph, this increase in efficiency could result in a roughly two minute time savings! With the same data, we calculate that the new Ordu could potentially shave roughly nine minutes from a 112 mile triathlon bike leg. Of course, efficiency may vary depending rider position and conditions.

You might ask, "what if I don't go 25mph?" Even if you average 20mph the decrease in aerodynamic drag is substantial enough to give you even greater time savings. Expressed as a percentage net loss of time, longer races result in greater savings.



GEO CHART / ORDU OMR

GEOMETRY

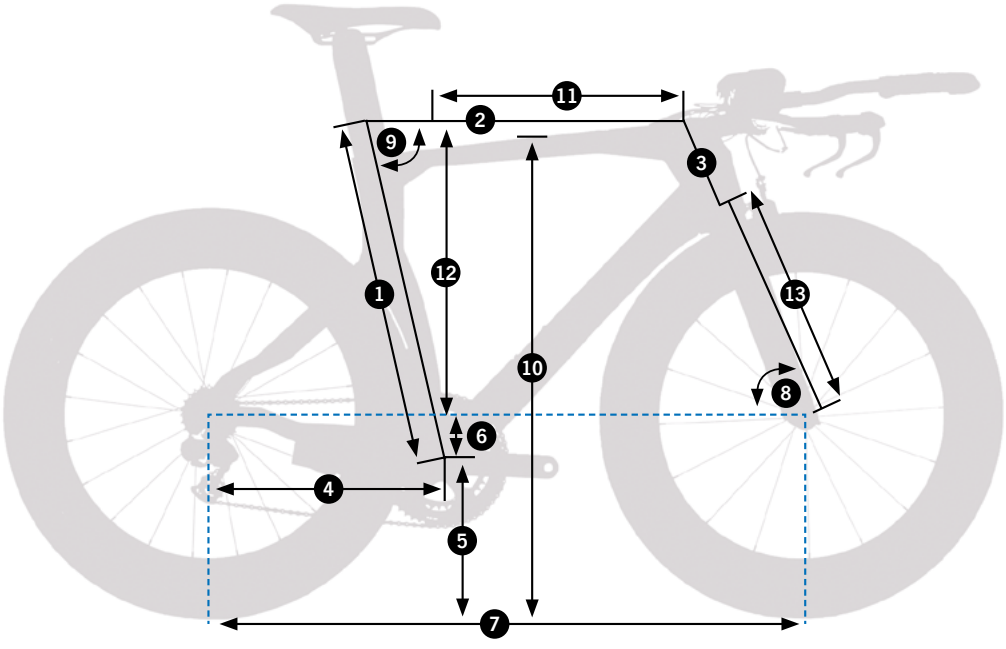
SIZE	S	M	L
1 – Seat Tube (C – T)	483	502	537
2 – Top Tube (EFF)	505	524	561
3 – Head Tube	90	100	140
4 – Chainstay	400	400	400
5 – BB Height	264	264	264
6 – BB Drop	72.5	72.5	72.5
7 – Wheelbase	973	994	1029
8 – Head Angle	72º	72.4º	73º
9 – Seat Angle	78º	78º	78º
10 – Standover	772	789	825
11 – Reach	395	416	444
12 – Stack	501	512	552

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S	170	110	410
M	170	110	410
L	172	110	410

SIZE

HEIGHT (cm)	SIZE
163 – 174	S
175 – 185	M
185 – 195	L





ORDU M-LTDI

CODE	D140
SIZES	S, M, L

COLORS

RED-CARBON
A1

WHITE-CARBON
A2

Frame	ORDU CARBON OMR, MONOCOQUE, 1-1/8" HEAD TUBE, PF 86MM, REAR DIRECT MOUNT BRAKE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, HORIZONTAL DROPOUTS, INTEGRATED FORK-STEM, EXTERNAL BATTERY.
Fork	ORDU OMR CARBON FORK, FULL CARBON STEERER, 1-1/8" HEAD TUBE, CARBON DROPOUTS.
Crankset	VISION TRIMAX CARBON 39X53
Headset	FSA 1-1/8" INTEGRATED
Handlebar	VISION TRIMAX CARBON SEMI-INTEGRATED J-BEND
Stem	ORBEA ORDU MONOLINK
Shifters	SHIMANO DURA-ACE TT 9071 DI2
Brakes	TRI RIG OMEGA STANDART
Rear Derailleur	SHIMANO DURA-ACE 9070 DI2
Front Derailleur	SHIMANO DURA-ACE 9070 DI2
Chain	SHIMANO DURA-ACE 9000
Wheels	VISION METRON 55 CARBON CLINCHER
Cassette	SHIMANO DURA-ACE 11-28 11-SPEED
Tires	CHALLENGE ELITE 700X23 260TPI
Pedals	N/A
Seatpost	ORBEA ORDU MONOLINK
Saddle	PROLOGO ZERO TRI T2,0



ORDU M-LTD

CODE	D139
SIZES	S, M, L
COLORS	

RED-CARBON
A1

WHITE-CARBON
A2

Frame	ORDU CARBON OMR, MONOCOQUE, 1-1/8" HEAD TUBE, PF 86MM, REAR DIRECT MOUNT BRAKE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, HORIZONTAL DROPOUTS, INTEGRATED FORK-STEM, EXTERNAL BATTERY.
Fork	ORDU OMR CARBON FORK, FULL CARBON STEERER, 1-1/8" HEAD TUBE, CARBON DROPOUTS.
Crankset	VISION TRIMAX CARBON 39X53
Headset	FSA 1-1/8" INTEGRATED
Handlebar	VISION TRIMAX CARBON SEMI-INTEGRATED J-BEND
Stem	ORBEA ORDU MONOLINK
Shifters	SHIMANO BAR END SL-BSR1
Brake levers	VISION METRON CARBON
Brakes	TRI RIG OMEGA STANDART
Rear Derailleur	SHIMANO DURA-ACE 9000
Front Derailleur	SHIMANO DURA-ACE 9000
Chain	SHIMANO DURA-ACE 9000
Wheels	VISION METRON 55 CARBON CLINCHER
Cassette	SHIMANO DURA-ACE 11-28 11-SPEED
Tires	CHALLENGE ELITE 700X23 260TPI
Pedals	N/A
Seatpost	ORBEA ORDU MONOLINK
Saddle	PROLOGO ZERO TRI T2,0



ORDU M-TEAMI

CODE	D138
SIZES	S, M, L

COLORS

RED-CARBON
A1

WHITE-CARBON
A2

Frame	ORDU CARBON OMR, MONOCOQUE, 1-1/8" HEAD TUBE, PF 86MM, REAR DIRECT MOUNT BRAKE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, HORIZONTAL DROPOUTS, INTEGRATED FORK-STEM, EXTERNAL BATTERY.
Fork	ORDU OMR CARBON FORK, FULL CARBON STEERER, 1-1/8" HEAD TUBE, CARBON DROPOUTS.
Crankset	VISION TRIMAX CARBON 39X53
Headset	FSA 1-1/8" INTEGRATED
Handlebar	VISION TRIMAX CARBON SEMI-INTEGRATED J-BEND
Stem	ORBEA ORDU MONOLINK
Shifters	SHIMANO SW-671
Brake levers	VISION METRON CARBON
Brakes	TRI RIG OMEGA STANDART
Rear Derailleur	SHIMANO ULTEGRA 6870 DI2
Front Derailleur	SHIMANO ULTEGRA 6870 DI2
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION METRON 55 CARBON CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
Tires	CHALLENGE ELITE 700X23 260TPI
Pedals	N/A
Seatpost	ORBEA ORDU MONOLINK
Saddle	PROLOGO ZERO TRI T2,0



ORDU M-TEAM

CODE	D137
SIZES	S, M, L
COLORS	

RED-CARBON
A1

WHITE-CARBON
A2

Frame	ORDU CARBON OMR, MONOCOQUE, 1-1/8" HEAD TUBE, PF 86MM, REAR DIRECT MOUNT BRAKE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, HORIZONTAL DROPOUTS, INTEGRATED FORK-STEM, EXTERNAL BATTERY.
Fork	ORDU OMR CARBON FORK, FULL CARBON STEERER, 1-1/8" HEAD TUBE, CARBON DROPOUTS.
Crankset	VISION TRIMAX CARBON 39X53
Headset	FSA 1-1/8" INTEGRATED
Handlebar	VISION TRIMAX CARBON SEMI-INTEGRATED J-BEND
Stem	ORBEA ORDU MONOLINK
Shifters	SHIMANO BAR END SL-BSR1
Brake levers	VISION METRON CARBON
Brakes	TRI RIG OMEGA STANDART
Rear Derailleur	SHIMANO ULTEGRA 6800
Front Derailleur	SHIMANO ULTEGRA 6800
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION METRON 55 CARBON CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
Tires	CHALLENGE ELITE 700X23 260TPI
Pedals	N/A
Seatpost	ORBEA ORDU MONOLINK
Saddle	PROLOGO ZERO TRI T2,0


ORBEA
ORBEA
ORBEA

/ OME

DON'T JUST FINISH. CRUSH IT.

Competition produces your finest efforts. Going beyond youself in the pursuit of excellence, the sensation of controlled physical chaos, the satisfaction of knowing that nothing was left in reserve - these are the reasons you show up to race. Personal goals are established, reached or exceeded, usually incrementally, sometimes with spectacular breakthroughs that provide fuel for a long season.

The Ordu OME is designed to push you past what you thought you were capable of into that realm of singular achievement - to that magical day when you don't feel the wind or relent to the pain - when you don't just finish the race, you crush it.

MODEL LUTION

With the success of the Ordu OMR platform, we focused our efforts to bring Orbea Monocoque Carbon to more triathletes. Ordu OME shares many features with Ordu OMR, perhaps most important is Orbea's attention to ride quality and rider experience. Our consistent and proportional stack and reach measurements guarantee that every athlete experiences the legendary Orbea Ordu fit in an aerodynamic, comfortable and fast bike regardless of frame size.



WHAT MAKES THE NEW ORDU OME UNIQUE?

Our mission was to create a counterpart to our Ordu OMR frameset - one that complemented it with similar world-beating performance. The Ordu OME had to offer greater aerodynamic efficiency than our last generation Ordu Silver, and it had to be available at competitive price points. Ordu OME needed to accept common components for easy maintenance and offer mounts for a fuel bag on the top tube and multiple water bottle configurations.

01/ AERODYNAMICS

02/ STIFFNESS

03/ TRIATHLON GEOMETRY

04/ MONOCOQUE




ORBEA


ORBEA

DESIGN

01/ AERODYNAMICS

AERODYNAMIC FRONT-TO-REAR PRIORITY

The leading edge of the Ordu OME frameset received the highest priority for aerodynamic shaping. The straight 1–1/8" steerer tube allows a narrow headtube that minimizes frontal area. At only 38mm wide, it decreases aerodynamic drag by integrating smoothly into the main triangle, making this critical area more slippery and smoothing airflow across the frame. Triathletes are not the only riders who can benefit from these advantages - the frame and fork are UCI legal, making the Ordu OME a serious contender for use in sanctioned Time Trial events. Any standard road bike front or rear brake can be employed, making it user-friendly and ready to accept the best the market has to offer.

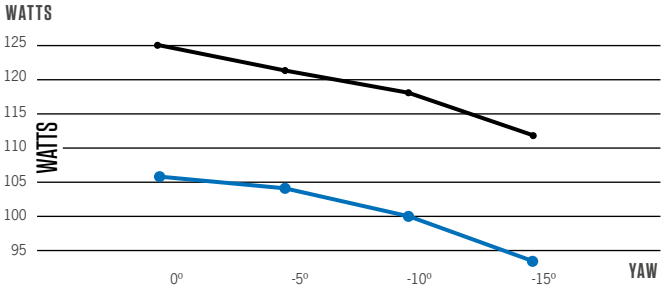


To further reduce drag the Ordu OME gets internal cable routing and EC/DC (Electronic Cable/Direct Cable) compatibility. This means it is optimized for traditional mechanical or electronic shifting. The cables or wires enter the downtube only to emerge where necessary to connect each individual component. We've limited the exposed cables to a bare minimum – every effort made to shave unwanted aerodynamic drag.

Frame tube intersections are all extended and smoothed to maximum benefit. Mounting bosses are placed carefully in locations where they will provide the most aerodynamic gain - a top tube mount behind the stem allows an optional tool/nutrition bag that actually improves drag numbers. Three mounts on the downtube allow the use of an optional aerodynamic bottle mounted low, or two standard bottles mounted in more traditional locations.

WIND TUNNEL TESTING
A2 WIND TUNNEL NORTH CAROLINA USA

POWER REQUIRED AT 30MPH



Any reduction in drag is important because it takes less energy to propel the bicycle. This can mean one of two things: You'll be able to ride faster at a given power output, or you can ride at the same pace with substantially less effort, saving your legs for the all-important run.

2012 OMS
2015 OME

TEST @ 30 MPH	0º YAW	-5º YAW	-10º YAW	-15º YAW	AVG	% DIFFERENCE
2015 ORDU OME	106W	104W	100W	93W	101W	16%
2012 ORDU SILVER	125W	121W	118W	112W	119W	
WATTS SAVED	19W	17W	18W	19W	18W	



DESIGN

WIND TUNNEL TESTING
A2 WIND TUNNEL NORTH CAROLINA USA









SETUP MATTERS

The wind tunnel is a great opportunity to test the multiple configurations and optional mounting locations provided on the Ordu OME frame. Maybe these data seem nit-picky but picking the fastest setup for the job makes all the difference at the end of a long ride.

1. Torhans bottle on downtube is about two watts faster than not having any bottle.

2. A single Arundel bottle on the seat tube is about one watt faster than no bottle.

3. A traditional round bottle on the seat tube requires about four more watts than an Arundel.

4. An aerodynamic brake (TRi Rig tested) on the front is about three watts faster than a standard caliper.

5. A top tube mounted pack doesn't increase frame drag and provides more convenient storage than a seat bag.

02/ STIFFNESS

ORDU OME - INCREASED RIGIDITY

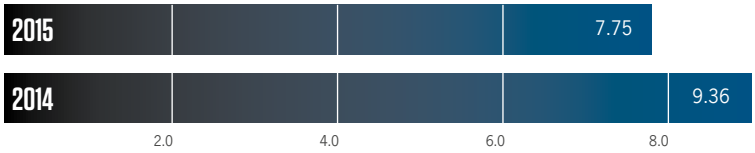
While aerodynamics push frame design toward narrower tubes that present the smallest-possible face to the breeze, a frame must be rigid to transfer energy to the rear wheel. Advantages gained against the wind should not be surrendered to flex, brake rub or questionable handling. The Ordu OME is more aerodynamic than its predecessor and is significantly stiffer as well. This translates to a faster bike that handles better and delivers more power to the road.

FRAME FRONT DEFLECTION (MILLIMETERS)



1.7MM
17% STIFFER

FRAME REAR DEFLECTION (MILLIMETERS)



1.61MM
16% STIFFER



The global stiffness test is used by manufacturers to measure frame deflection. The rear dropout is fixed in place and a force applied to the side of the headtube flexes the entire frame. The amount of movement at the headtube for a given force is recorded in millimeters.

DESIGN

03/ TRIATHLON GEOMETRY

Beyond any other factor in high-performance cycling, synergy between rider and bike is our foremost consideration. We designed the Ordu OME using a fit-first philosophy. Beginning with Dan Empfield's Stack and Reach concept and drawing from our experience fitting thousands of athletes on triathlon and time trial bikes, we adjusted our fit coordinates to reflect the needs of today's athlete.

Stack and reach are important measurements because they define the spatial relationships of two important contact points between your body and the bike – pedals and handlebars. Stack is the vertical distance the center of the bottom bracket to the top of the headtube. Reach is the horizontal distance from the center of the bottom bracket to that same point - the top, centerline of the headtube. An understanding of stack and reach can explain why many small bikes don't fit well. There are instances in the market when the smallest sizes do not offer shorter reach measurements and do not bring the headtube (therefore the handlebars) any closer to the rider than the next bigger size.

What we're suggesting is an lution in bike geometry. It's a different way to look at how to design and build bike frames that allows the Ordu OME to fit a wider range of riders and follow a more linear size progression.

The new size range includes XS, SM, MD, and LG sizes and ensures that anyone can ride an Ordu OME, no matter how large or small. The progressive sizing ensures that our XS bike indeed offers the smallest fit and that subsequent sizes grow in a linear and predictable fashion. The two smaller frame sizes use a fork with a 53mm offset. The larger sizes use a fork with a 45mm offset. This difference, along with a tuned head angle throughout the size range, maintains correct steering and front triangle geometry that takes into account the dynamic interaction between rider and bicycle. The two forks allow the same experience with a well-balanced ride-feel across the entire size range.



SMART SIZING TO FIT THE WIDEST RANGE OF MEN AND WOMEN

Stack and reach are important measurements because they define the spatial relationships of two important contact points between your body and the bike – pedals and handlebars. Stack is the vertical distance from the center of the bottom bracket to the top of the headtube. Reach is the horizontal distance from the center of the bottom bracket to that same point - the top center of the headtube.

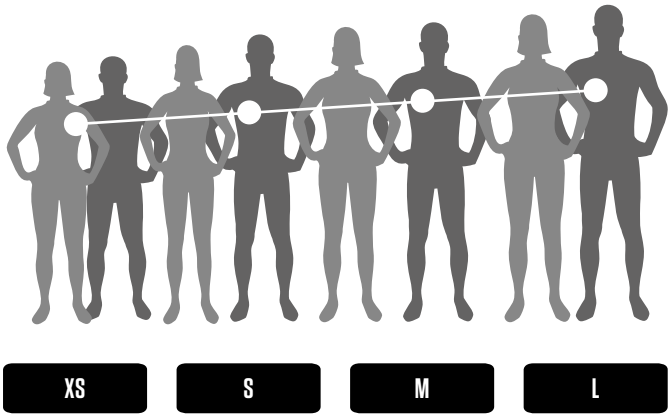
An understanding of stack and reach can explain why many small bikes don't fit well. There are instances in the market when the smallest sizes do not offer shorter reach measurements and do not bring the head tube (therefore the handlebars) any closer to the rider than the next bigger size. How does the manufacturer advertise a full size range then, based on top tube lengths?

What we're suggesting is an lution in bike geometry. It's a different way to look at how to design and build bike frames that allows the Ordu OME to fit a wider range of riders and follow a more linear size progression. The new size range includes XS, SM, MD, and LG sizes and ensures that anyone can ride an Ordu OME, no matter how large or small. The progressive sizing ensures that our XS bike indeed offers the smallest fit and that subsequent sizes grow in a linear and predictable fashion.

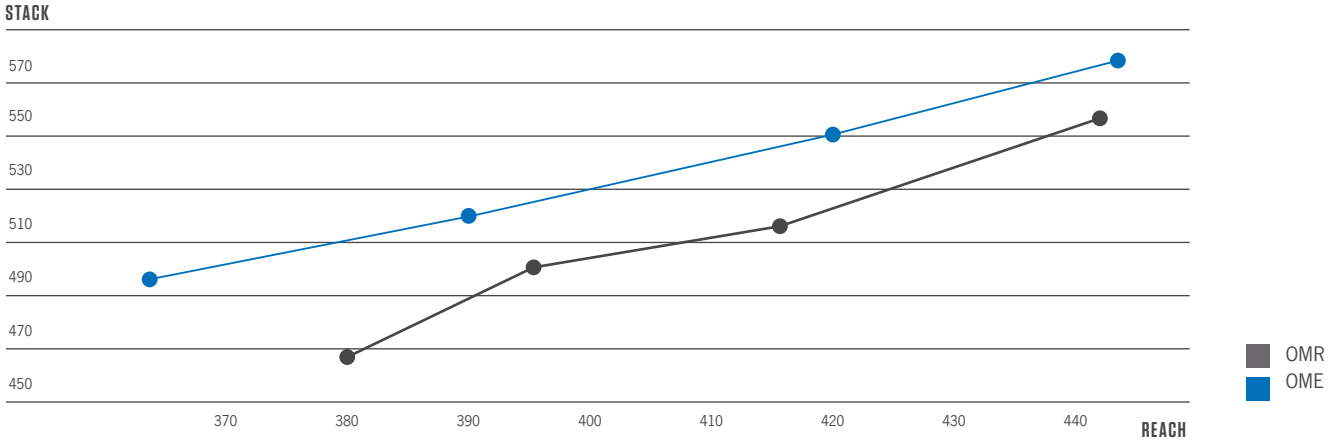
FITS MORE PEOPLE BETTER

WOMEN AND MEN FIT UNIVERSALLY

CONSTISTENT STACK AND REACH SCALING



ORDU OME VS OMR - STACK UND REACH



GEO CHART / ORDU OME

GEOMETRY

SIZE	XS	S	M	L
1 – Seat Tube (C – T)	520	550	575	610
2 – Top Tube (EFF)	470	503	539	577
3 – Head Tube	92	120	139	169
4 – Chainstay	405	405	405	405
5 – BB Height	266	266	266	266
6 – BB Drop	73	73	73	73
7 – Wheelbase	969	1002	1010	1044
8 – Head Angle	70,5º	71º	73º	73º
9 – Seat Angle	78º	78º	78º	77º
10 – Standover	749	777	802	835
11 – Reach	365	392	419	443
12 – Stack	495	523	551	580
13 – Fork Length	375	375	375	375

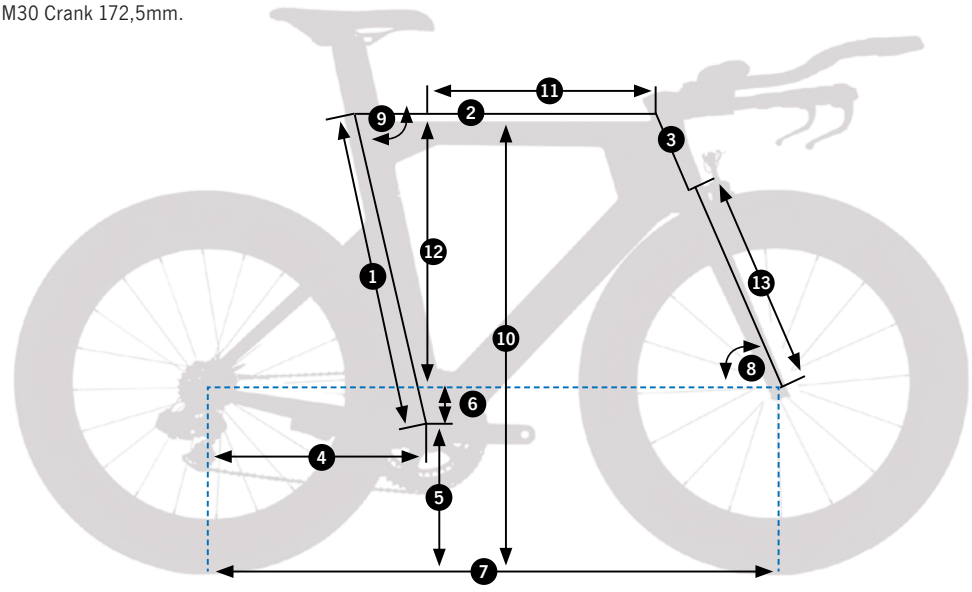
ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
XS	165	90	410
S	170	100	410
M	170	100	410
L	172	110	410

SIZE

HEIGHT (cm)	SIZE
153 – 162	XS
163 – 174	S
175 – 185	M
185 – 195	L

Ordu M20 Handlebar 400mm for all Sizes.
Ordu M30 Handlebar 400mm Size S.
Ordu M10 – ltd handlebar 410mm.
Ordu M30 Crank 172,5mm.



CONSTRUCTION

04/ ORBEA MONOCOQUE EVOLUTION

Monocoque guarantees a carbon structure with optimum performance and long term Monocoque construction guarantees a carbon structure with optimum performance and long term reliability and it's the only way we've ever done it. We mold the one-piece structures so that each tube is connected to the next, with continuous fibers through each critical juncture. As you ride, your bike will be subjected to a variety of forces – tension, compression, torsion, etc. Our monocoque frames allow optimal distribution of these forces over the entire structure because of the perfect fusion of the composite materials.

OME CARBON (Orbea Monocoque Evolution) carbon construction takes advantage of blending high modulus fibers with standard carbon fibers to reach an optimum balance of performance, durability, and value.



CONSTRUCTION

FRAME FEATURES AND DETAILS

- CARBON FRAME, FORK AND AERO SEATPOST WITH INTEGRATED CLAMP
- 50X34T/53X39T/SRM/QUARK/OSYMETRIC COMPATIBLE
- OPTIONS FOR AERO OR TWO STANDARD BOTTLE MOUNTS
- TOP TUBE BAG MOUNT
- REAR WHEEL CUTOUT
- SEMI-VERTICAL DROPOUTS ALLOW EASY WHEEL CHANGES
- COMPATIBILITY WITH 25C TIRES
- EXTERNAL BATTERY MOUNT



PRESS FIT

The Ordu OME is designed around a press-fit (BB86) bottom bracket system. The wider shell ensures optimal stay placement for stiffness and efficiency when you hammer on the pedals. The press-fit system offers less opportunity for contamination and reduced maintenance.





EC/DC

The Orbea EC/DC or Electronic Circuit/ Direct Cable system is compatible with electronic or mechanical shifting - the choice is yours to make. EC/DC relies on built-in pathways that ease the installation of cables or wires and results in streamlined, flawless shifting performance.

AERODYNAMIC HEADTUBE

The Ordu OME features a non-tapered headtube (1-1/8") to present the lowest frontal area to the wind.





INTERNAL DCR

Internal Direct Cable Routing protects the cables, reduces friction, and enhances durability.

Thanks to internal routing and a fully a sealed cable system with Teflon coated inner wires and a slick polyester sleeve, the risk of contamination is lessened and frictio is reduced by up to 25%. DCR produces a lighter and more precise feel at the levers - function, simplicity, and tidiness are paramount. Less traditional cable housing also means that system weight is reduced.



ORDU M10 LTD

CODE	D136
SIZES	XS, S, M, L

COLORS

RED-CARBON
A6

CARBON-WHITE
A7

Frame	ORDU CARBON OME, MONOCOQUE, 1-1/8" HEAD TUBE, PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, VERTICAL DROPOUTS, UCI LEGAL, EXTERNAL BATTERY COMPATIBLE.
Fork	ORCA OME CARBON FORK, ALUMINUM STEERER, 1-1/8" HEAD TUBE
Crankset	VISION TRIMAX CARBON 39X53
Headset	FSA 1-1/8" INTEGRATED CARBON CUP
Handlebar	VISION TRIMAX CARBON SEMI-INTEGRATED J-BEND
Stem	FSA OS-99 CSI
Shifters	SHIMANO BAR END SL-BSR1
Brake levers	VISION METRON CARBON
Brakes	TRI RIG OMEGA STANDART
Rear Brake	SHIMANO DURA-ACE 9000
Rear Derailleur	SHIMANO DURA-ACE 9000
Front Derailleur	SHIMANO DURA-ACE 9000
Chain	SHIMANO DURA-ACE 9000
Wheels	VISION METRON 55 CARBON CLINCHER
Cassette	SHIMANO DURA-ACE 11-28 11-SPEED
Tires	CHALLENGE ELITE 700X23 260TPI
Pedals	N/A
Seatpost	ORBEA ORDU OME
Saddle	PROLOGO ZERO TRI T2,0



ORDU M10

CODE	D135
SIZES	XS, S, M, L
COLORS	

RED-CARBON
A6

CARBON-WHITE
A7

Frame	ORDU CARBON OME, MONOCOQUE, 1-1/8" HEAD TUBE, PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, VERTICAL DROPOUTS, UCI LEGAL, EXTERNAL BATTERY COMPATIBLE.
Fork	ORCA OME CARBON FORK, ALUMINUM STEERER, 1-1/8" HEAD TUBE
Crankset	VISION TRIMAX PRO 38X52
Headset	FSA 1-1/8" INTEGRATED CARBON CUP
Handlebar	VISION TRIMAX CARBON
Stem	FSA OS-99 CSI
Extension	VISION TRIMAX ALLOY F.A.S.T CLIP-ON 31,8 X230-290MM J-BEND
Shifters	SHIMANO BAR END SL-BSR1
Brake levers	VISION METRON CARBON
Brakes	SHIMANO DURA-ACE 9000
Rear Derailleur	SHIMANO DURA-ACE 9000
Front Derailleur	SHIMANO DURA-ACE 9000
Chain	SHIMANO DURA-ACE 9000
Wheels	VISION TRIMAX T30 CLINCHER
	VISION METRON 55 CLINCHER
Cassette	SHIMANO DURA-ACE 11-28 11-SPEED
Tires	CHALLENGE FORTE RACE 700X23 120TPI
Pedals	N/A
Seatpost	ORBEA ORDU OME
Saddle	PROLOGO ZERO TRI T2,0



ORDU M20I LTD

CODE	D134
SIZES	XS, S, M, L

COLORS

RED-CARBON
A6

CARBON-WHITE
A7

Frame	ORDU CARBON OME, MONOCOQUE, 1-1/8" HEAD TUBE, PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, VERTICAL DROPOUTS, UCI LEGAL, EXTERNAL BATTERY COMPATIBLE.
Fork	ORCA OME CARBON FORK, ALUMINUM STEERER, 1-1/8" HEAD TUBE
Crankset	VISION TRIMAX CARBON 39X53
Headset	FSA 1-1/8" INTEGRATED CARBON CUP
Handlebar	VISION TRIMAX CARBON SEMI-INTEGRATED J-BEND
Stem	FSA OS-99 CSI
Shifters	SHIMANO SW-671
Brake levers	VISION METRON CARBON
	SHIMANO DURA-ACE TT 9071 DI2
Brakes	TRI RIG OMEGA STANDART
Rear Brake	SHIMANO ULTEGRA 6800
Rear Derailleur	SHIMANO ULTEGRA 6870 DI2
Front Derailleur	SHIMANO ULTEGRA 6870 DI2
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION METRON 55 CARBON CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
Tires	CHALLENGE ELITE 700X23 260TPI
Pedals	N/A
Seatpost	ORBEA ORDU OME
Saddle	PROLOGO ZERO TRI T2,0



ORDU M20I

CODE	D133
SIZES	XS, S, M, L

COLORS

RED-CARBON
A6

CARBON-WHITE
A7

Frame	ORDU CARBON OME, MONOCOQUE, 1-1/8" HEAD TUBE, PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, VERTICAL DROPOUTS, UCI LEGAL, EXTERNAL BATTERY COMPATIBLE.
Fork	ORCA OME CARBON FORK, ALUMINUM STEERER, 1-1/8" HEAD TUBE
Crankset	VISION TRIMAX PRO 38X52
Headset	FSA 1-1/8" INTEGRATED CARBON CUP
Handlebar	VISION TRIMAX ALLOY
Stem	FSA GOSSAMER PRO
Extension	VISION TRIMAX ALLOY F.A.S.T CLIP-ON 31,8 X230-290MM J-BEND
Shifters	SHIMANO SW-671
Brake levers	VISION AERO ALLOY
	SHIMANO DURA-ACE TT 9071 DI2
Brakes	FSA GOSSAMER PRO
Rear Derailleur	SHIMANO ULTEGRA 6870 DI2
Front Derailleur	SHIMANO ULTEGRA 6870 DI2
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION TEAM 30 CLINCHER
	VISION TRIMAX T30 CLINCHER
Cassette	SHIMANO 105 5800 11-28 11-SPEED
Tires	CHALLENGE FORTE RACE 700X23 120TPI
Pedals	N/A
Seatpost	ORBEA ORDU OME
Saddle	PROLOGO ZERO TRI T2,0



ORDU M20

CODE	D132
SIZES	XS, S, M, L

COLORS

RED-CARBON
A6

CARBON-WHITE
A7

Frame	ORDU CARBON OME, MONOCOQUE, 1-1/8" HEAD TUBE, PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, VERTICAL DROPOUTS, UCI LEGAL, EXTERNAL BATTERY COMPATIBLE.
Fork	ORCA OME CARBON FORK, ALUMINUM STEERER, 1-1/8" HEAD TUBE
Crankset	VISION TRIMAX PRO 38X52
Headset	FSA 1-1/8" INTEGRATED CARBON CUP
Handlebar	VISION TRIMAX ALLOY
Stem	FSA GOSSAMER PRO
Extension	VISION TRIMAX ALLOY F.A.S.T CLIP-ON 31,8 X230-290MM J-BEND
Shifters	SHIMANO BAR END SL-BSR1
Brake levers	VISION AERO ALLOY
Brakes	FSA GOSSAMER PRO
Rear Derailleur	SHIMANO ULTEGRA 6800
Front Derailleur	SHIMANO ULTEGRA 6800
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION TEAM 30 CLINCHER
	VISION TRIMAX T30 CLINCHER
Cassette	SHIMANO 105 5800 11-28 11-SPEED
Tires	CHALLENGE FORTE RACE 700X23 120TPI
Pedals	N/A
Seatpost	ORBEA ORDU OME
Saddle	PROLOGO ZERO TRI T2,0



ORDU M30

CODE	D131
SIZES	XS, S, M, L

COLORS

RED-CARBON
A6

CARBON-WHITE
A7

Frame	ORDU CARBON OME, MONOCOQUE, 1-1/8" HEAD TUBE, PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, VERTICAL DROPOUTS, UCI LEGAL, EXTERNAL BATTERY COMPATIBLE.
Fork	ORCA OME CARBON FORK, ALUMINUM STEERER, 1-1/8" HEAD TUBE
Crankset	FSA GOSSAMER 36X52
Headset	FSA 1-1/8" INTEGRATED CARBON CUP
Handlebar	VISION TRIMAX ALLOY
Stem	ORBEA OC-II
Extension	VISION TRIMAX ALLOY F.A.S.T CLIP-ON 31,8 X230-290MM J-BEND
Shifters	SHIMANO BAR END SL-BSR1
Brake levers	VISION AERO ALLOY
Brakes	ORBEA OC-II
Rear Derailleur	SHIMANO 105 5800
Front Derailleur	SHIMANO 105 5800
Chain	SHIMANO HG600
Wheels	VISION TEAM 25 CLINCHER
	VISION TRIMAX T30 CLINCHER
	VISION TEAM 30
Cassette	SHIMANO 105 5800 11-28 11-SPEED
Tires	CHALLENGE FORTE RACE 700X23 120TPI
Pedals	N/A
Seatpost	ORBEA ORDU OME
Saddle	PROLOGO ZERO TRI T2,0

Orca



ORCA TRI M20I

CODE	D130
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

WHITE - RED
F1

BLUE-PINK
F2

PINK-WHITE
F3

WHITE - BLUE
F4

F7

Frame	ORCA CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	SHIMANO ULTEGRA 6800 39X53
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA GOSSAMER COMPACT
	FSA ENERGY COMPACT
Stem	FSA GOSSAMER PRO
	FSA OS-99 CSI
	FSA ENERGY
Extension	VISION TRIMAX ALLOY CSI F.A.S.T CLIP-ON
Shifters	SHIMANO ULTEGRA 6870 DI2
Brakes	SHIMANO ULTEGRA 6800
Rear Derailleur	SHIMANO ULTEGRA 6870 DI2
Front Derailleur	SHIMANO ULTEGRA 6870 DI2
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION TRIMAX T30 CLINCHER
	VISION METRON 40 CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
Tires	CHALLENGE FORTE RACE 700X23 120TPI
Pedals	N/A
Seatpost	FSA SL-K OFFSET SB20 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM

Orca



ORCA TRI M20

CODE	D129
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

WHITE - RED
F1

BLUE-PINK
F2

PINK-WHITE
F3

WHITE - BLUE
F4

F7

Frame	ORCA CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	SHIMANO ULTEGRA 6800 39X53
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA GOSSAMER COMPACT
	FSA ENERGY COMPACT
Stem	FSA GOSSAMER PRO
	FSA OS-99 CSI
	FSA ENERGY
Extension	VISION TRIMAX ALLOY CSI F.A.S.T CLIP-ON
Shifters	SHIMANO ULTEGRA 6800
Brakes	SHIMANO ULTEGRA 6800
Rear Derailleur	SHIMANO ULTEGRA 6800
Front Derailleur	SHIMANO ULTEGRA 6800
Chain	SHIMANO ULTEGRA 6800
Wheels	VISION TRIMAX T30 CLINCHER
	VISION METRON 40 CLINCHER
Cassette	SHIMANO ULTEGRA 6800 11-28 11-SPEED
Tires	CHALLENGE FORTE RACE 700X23 120TPI
Pedals	N/A
Seatpost	FSA SL-K OFFSET SB20 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM

Orca



ORCA TRI M30

CODE	D128
SIZES	47, 49, 51, 53, 55, 57, 60

COLORS

WHITE - RED
F1

BLUE-PINK
F2

PINK-WHITE
F3

WHITE - BLUE
F4

F7

Frame	ORCA CARBON OMP, MONOCOQUE, TAPERED 1-1/8" - 1,5", PF 86MM, POWERMETER COMPATIBLE, INTERNAL CABLE ROUTING, EC/DC COMPATIBLE, 130MM OLD, 27,2 MM SEAT TUBE.
Fork	ORCA OMP CARBON FORK, FULL CARBON STEERER, TAPERED 1-1/8" - 1,5", CARBON DROPOUTS
Crankset	FSA GOSSAMER 36X52
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED CARBON CUP ACB BEARINGS
Handlebar	FSA GOSSAMER COMPACT
	FSA ENERGY COMPACT
Stem	FSA GOSSAMER PRO
	FSA OS-99 CSI
	FSA ENERGY
Extension	VISION TRIMAX ALLOY CSI F.A.S.T CLIP-ON
Shifters	SHIMANO 105 5800
Brakes	FSA GOSSAMER PRO
Rear Derailleur	SHIMANO 105 5800
Front Derailleur	SHIMANO 105 5800
Chain	SHIMANO HG600
Wheels	VISION TEAM 30 CLINCHER
	VISION TRIMAX T30 CLINCHER
	VISION METRON 40 CLINCHER
Cassette	SHIMANO 105 5800 11-28 11-SPEED
Tires	VITTORIA RUBINO 700X23 60TPI
Pedals	N/A
Seatpost	FSA SL-K OFFSET SB20 27.2X350MM
Saddle	PROLOGO KAPPA STN SIZE 134 MM





MTB2015


KALI
KALI

RALLON







WE MAY NOT BE RACING BUT THAT DOESN'T MEAN I AM NOT TRYING TO BEAT YOU ;-)

Time flies, it slips away and we can never have enough of it. What would you do with a little extra? We can't turn back the clock on a misspent youth but the speed of the new Rallon gives you a few precious seconds to write your own story on the mountain.

Grab a few extra raspy breaths at the top of the climb. Whip instead of tuck. Knock your buddy off the leader board. Take the fun line instead of the easy line. Pull a snack from your pack or post a pic to instagram.
Sometimes a few seconds can seem like all the time in the world.

Name	ORBEA RALLON
Uso	ENDURO
Construction	TRICONE ALLOY
Technology	ADVANCED DYNAMICS/ PURE ENDURO GEOMETRY/ C9.12/ DOWNTUBE CABLE HIGHWAY/ DIRECT POST MOUNT/ ADJUSTABLE GEO
Orbea values	LIFETIME WARRANTY/ ORBEA DESIGN



WHAT MAKES THE RALLON UNIQUE?

1/ PURE ENDURO GEOMETRY

2/ TRICONE ALLOY

3/ ADVANCED DYNAMICS

4/ NEXT LEVEL SUSPENSION









DESIGN

01/ PURE ENDURO GEOMETRY

SLACK HEAD ANGLE

66.5º/66º (adjustable) > Great stability at speed through rough terrain.

LOW BOTTOM BRACKET

14mm/21mm lower than previous Rallon > Corners naturally with low center of gravity.

SHORT CHAINSTAYS

420mm > Agility and maneurability especially at low speeds.

LONG COCKPIT

11mm longer effective top tube, 25mm longer reach from R3 > Optimum balance and weight distribution.

LONG WHEELBASE

40mm longer than R3 > Better stability at high speeds.

FORWARD PEDALING POSITION

75º/74.5º > Better pedaling position even with generous SAG.

ADJUSTABLE GEO

A simple rotation of the shock mount pin drops the BB 7mm and slackens angles by 5º.



GEO CHART / RALLON

GEOMETRY

SIZE	S	M	L
1 – Seat Tube (C – T)	420	455	495
2 – Top Tube (EFF)	582	606	635
3 – Head Tube	115	120	135
4 – Chainstay	420	420	420
5 – BB Height	345/338	345/338	345/338
6 – BB Drop	7/14 (GEOMETRY CHANGE)	7/14 (GEOMETRY CHANGE)	7/14 (GEOMETRY CHANGE)
7 – Wheelbase	1148	1172	1204
8 – Head Angle	66,5º/66º(GEOMETRY CHANGE)	66,5º/66º(GEOMETRY CHANGE)	66,5º/66º(GEOMETRY CHANGE)
9 – Seat Angle	75º/74,5º(GEOMETRY CHANGE)	75º/74,5º(GEOMETRY CHANGE)	75º/74,5º(GEOMETRY CHANGE)
10 – Standover	750	770	790
11 – Reach	419	442	467
12 – Stack	606	611	624
13 – Fork Length	554.4	554.4	554.4

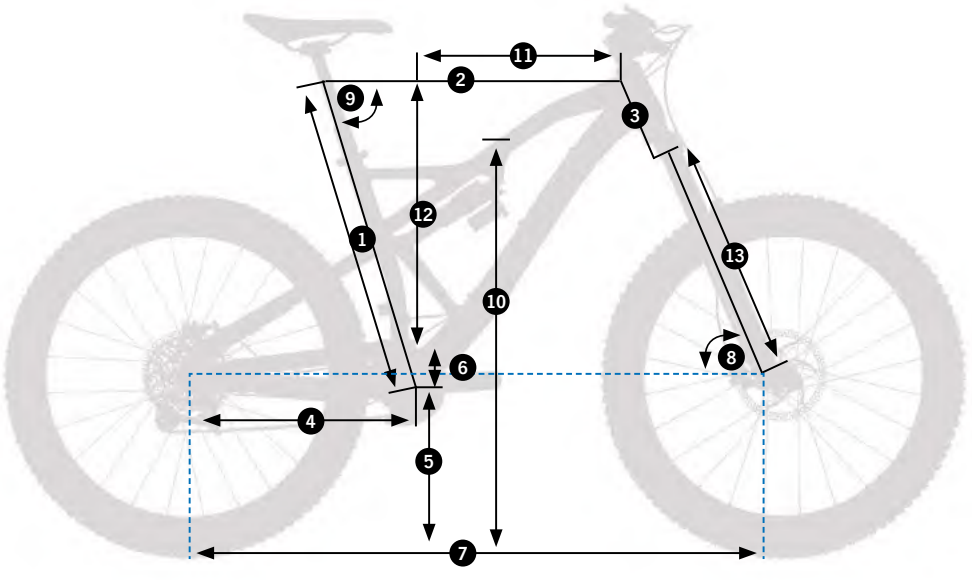
ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S	170	50	760
M	170	50	760
L	170	70	760

SIZE

HEIGHT (cm)	SIZE
160 – 175	S
170 – 185	M
180 – 198	L

Rallon X – Team Size S Stem 35mm and Rallon X30 Size S Handlebar 740mm
Rallon X30 Size M, Stem 60mm and Handlebar 740mm.
Rallon X – Team Size L, stem 65mm and Rallon X30 Size L Handlebar 740mm



DESIGN

02/ ORBEA TRICONE ALUMINIUM

REFINED

Triple butted and hydroformed 7000 series alloy – 2.75Kg medium frame – 300g LIGHTER THAN R3.

TESTED

Quicker production of new geometry and prototypes as track styles and enduro racing Ive.

EFFICIENT

Hollow rocker, proprietary yoke and dropout parts are light and efficient – 20% STIFFER THAN R3.

PERFORMANCE PRIORITIZED

Sophisticated suspension and component specifications are paramount.



03/ ADVANCED DYNAMICS

Advanced Dynamics is at the heart of every Orbea suspension bike. It is a process we developed in conjunction with CEIT (Centro de Estudios e Investigaciones Tecnológicas) that allows us to model and test our suspension platforms. Using a vast database of shock tunes and component behaviors we can study a design under a virtual rider that exerts forces on the pedals, saddle and handlebars. We can shape the simulations to evaluate different variables – rider height, weight, riding style – on different tracks.

Even tire pressures can be tested and recorded before a welding torch is lit. This virtual test process allows us to optimize our suspension designs before the prototyping and field testing phases. When the tires finally hit the dirt we can focus instead on fine-tuning damper characteristics and spring curves with our expert suspension partners. This is the obsessive tinkering that turns a good bike into a great one. The result is a dynamic suspension system that is tuned for variable trail conditions with a leverage rate curve that is specifically matched to the spring and damper. Advanced Dynamics transforms virtual designs into real, highly-refined machines – Bikes for demanding riders that are faster, more fun to ride and far beyond ordinary.



DATA COLLECTION - VIRTUAL MODELING



PROTOTYPING - SUSPENSION TUNING



PRODUCTION BIKE - SHRED READY

DESIGN

04/ NEXT LEVEL SUSPENSION

LINEAR/PROGRESSIVE CURVE

Maximum tuning capability with 10% progressive RATE to help suspension ride higher and recover faster.

HIGH PIVOT POINT

Great DH performance with improvements in pedaling efficiency due to natural anti-squat.

EXTREME SENSITIVITY

Maximum compliance for great traction in flat turns & washboard terrain – bearings instead of shock bushings.

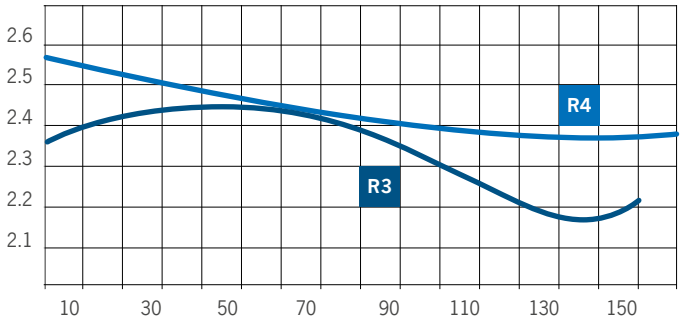
COLLABORATIVE INPUT

Modified extensively from R3 and early prototypes refined with input from suspension specialists at BOS.

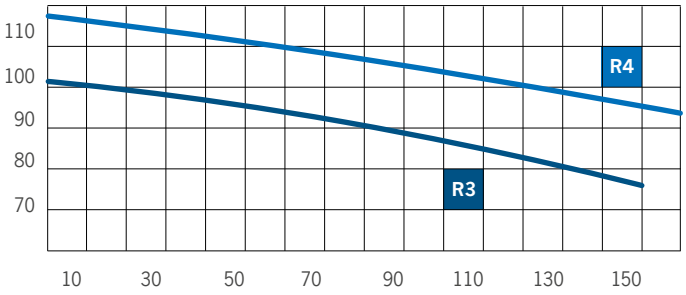
MORE PROGRESSIVE AT FULL TRAVEL

Limits bottom out forces transmitted to frame, suspension and rider.

LEVERAGE RATIO & TRAVEL (MM)



ANTI-SQUAT (%) & TRAVEL (MM)





FEATURES AND SPECIFICATIONS

C9-12 PIVOT

A concentric pivot at the rear axle is lighter and stiffer with easy swaps between axle systems.

ADJUSTABLE GEO

A simple rotation of the shock mount pin drops the bb 7mm and slackens angles by .5º.

CABLE HIGHWAY

Clean, smooth routing system increases performance and decreases maintenance.

DROPPER POST

Ready for internal (stealth) or external post routing.

CARTRIDGE BEARINGS

Enduro-brand sealed bearings replace shock bushings and are used throughout for ultimate suspension performance.



RALLON



RALLON X-TEAM

CODE	D254
SIZES	S, M, L

COLORS

FLUOR-BLACK
G1

BLACK-WHITE
G2

Frame	ORBEA HYDROFORMED TRIPLE BUTTED ALLOY. ADVANCED DYNAMICS ENDURO TUNED 160MM SUSPENSION. C9-12 REAR AXLE. HOLLOW LINEAR RATIO ROCKER ARM. PURE ENDURO GEOMETRY. DOWNTUBE CABLE HIGHWAY ROUTING
Shock	BOS KIRK RALLON CUSTOM
	FOX FLOAT X CTD ADJUST KASHIMA 215X63MM
Fork	BOS DEVILLE 160 TAPERED QR20 R4 CUSTOM SETTING
	FOX 34 FLOAT 160 CTD TAPERED QR15 KASHIMA
Crankset	RACE FACE NEXT 28T
	SHIMANO XTR M9000 26X36T
Headset	ORBIT ZS 1" 1/2 SEMI-INTEGRATED
Handlebar	RACE FACE NEXT RISER 760MM
Stem	RACE FACE ATLAS
Shifters	SRAM XO1
Brakes	FORMULA RO HYDRAULIC DISC
	SHIMANO XTR TRAIL M9020 HYDRAULIC DISC
Rear Derailleur	SRAM XO1 X-HORIZON
Chain	SRAM CN PCX1
Wheels	DT SPLINE E-1700
Cassette	SRAM XG 10-42 11-SPEED
Tires	MAXXIS ARDENT 2.25" TLR 60 TPI EXO DUAL
Pedals	N/A
Seatpost	ROCKSHOX REVERB 31.6X385MM STEALTH
Saddle	FIZIK GOBI MG
	SELLE ITALIA SLR XC FLOW

RALLON



RALLON X10

CODE	D253
SIZES	S, M, L
COLORS	

FLUOR-BLACK
G1

BLACK-WHITE
G2

Frame	ORBEA HYDROFORMED TRIPLE BUTTED ALLOY. ADVANCED DYNAMICS ENDURO TUNED 160MM SUSPENSION. C9-12 REAR AXLE. HOLLOW LINEAR RATIO ROCKER ARM. PURE ENDURO GEOMETRY. DOWNTUBE CABLE HIGHWAY ROUTING
Shock	FOX FLOAT X FACTORY KASHIMA 215X63MM
	BOS KIRK CUSTOM 215X63MM
Fork	FOX 34 FACTORY FLOAT 160 FIT CTD TRAIL ADJUST TAPERED QR15 KASHIMA
	FOX 34 TALAS 160 CTD TAPERED QR15
	BOS DEVILLE 160 TAPERED QR20 + ADAPTER QR15
Crankset	RACE FACE TURBINE 22X36 W/BASHGUARD
	SHIMANO XT M785 24X38T
Headset	ORBIT ZS 1” 1/2 SEMI-INTEGRATED
Handlebar	RACE FACE TURBINE RISER 760MM
	RACE FACE 35MM NEXT/ATLAS RISER KIT
Stem	RACE FACE TURBINE OEM
Shifters	SHIMANO SLX M670 I-SPEC
Brakes	SHIMANO SLX M675 HYDRAULIC DISC
	FORMULA R0 HYDRAULIC DISC
Rear Derailleur	SHIMANO XT M786 SHADOW PLUS
Front Derailleur	SHIMANO DEORE DIRECT MOUNT
Chain	SHIMANO HG75
Wheels	MAVIC CROSS ONE
	DT SPLINE E-1700
Cassette	SHIMANO HG81 11-36 10-SPEED
Tires	MAXXIS ARDENT 2.25” FB 60 TPI EXO
Pedals	N/A
	SHIMANO M520
Seatpost	ROCKSHOX REVERB 31.6X385MM STEALTH
Saddle	FIZIK GOBI MG
	SELLE ITALIA SLR XC FLOW

RALLON



RALLON X30

CODE	D252
SIZES	S, M, L

COLORS

FLUOR-BLACK
G1

BLACK-WHITE
G2

Frame	ORBEA HYDROFORMED TRIPLE BUTTED ALLOY. ADVANCED DYNAMICS ENDURO TUNED 160MM SUSPENSION. C9-12 REAR AXLE. HOLLOW LINEAR RATIO ROCKER ARM. PURE ENDURO GEOMETRY. DOWNTUBE CABLE HIGHWAY ROUTING
Shock	FOX FLOAT PERFORMANCE CTD BV LV 215X63MM
	BOS KIRK CUSTOM 215X63MM
	FOX FLOAT X CTD ADJUST KASHIMA 215X63MM
Fork	FOX 34 FLOAT 160 O/C CTD TAPERED QR15
	FOX 34 TALAS 160 CTD TAPERED QR15
	FOX 34 FLOAT 160 CTD TAPERED QR15 KASHIMA
	BOS DEVILLE 160 TAPERED QR20 + ADAPTER QR15
Crankset	RACE FACE RIDE 22X36T W/BASHGUARD
	SHIMANO SLX M670 24X38T
Headset	ORBIT ZS 1" 1/2 SEMI-INTEGRATED
Handlebar	RACE FACE RIDE RISER 740MM
	RACE FACE TURBINE RISER KIT
Stem	RACE FACE RIDE
Shifters	SHIMANO SLX M670
Brakes	FORMULA C1 HYDRAULIC DISC
	SHIMANO SLX M675 HYDRAULIC DISC
	FORMULA R0 HYDRAULIC DISC
Rear Derailleur	SHIMANO SLX GS SHADOW PLUS
Front Derailleur	SHIMANO DEORE DIRECT MOUNT
Chain	KMC X10
Wheels	MAVIC EN321 DISC
	MAVIC CROSSONE
	DT SPLINE E-1700
Cassette	SHIMANO HG50 11-36 10-SPEED
Tires	MAXXIS ARDENT 2.25" FB 60 TPI EXO
Pedals	N/A
	SHIMANO M520
Seatpost	RACE FACE RIDE 31.6X375MM
	ROCKSHOX REVERB 31.6X385MM STEALTH
Saddle	FIZIK NISENE
	FIZIK GOBI MG


OCCAM
RACE AM

OCCAM

WHEN EFFICIENCY MEETS CONTROL.

The Occam 29 is the perfect tool for long distance XC & Trail riding when the terrain is unpredictable - The climbs long, the descents rough and rowdy. It offers the travel and bottomless suspension feel that makes hitting optional lines more fun in an efficient, lightweight package. It's a fast-roller that is perfectly suited to relentlessly rocky trails.

The Occam 29 is agile and efficient on the climbs, yet it makes sparks fly on the descents.

Name	ORBEA OCCAM
Uso	MARATHON/ TRAIL
Construction	MONOCOQUE
Technology	ADVANCED DYNAMICS/ C9-12/ DIAMOND LINK/ GEOMETRY / WIRING/ PP28
Orbea values	LIFETIME WARRANTY/ ORBEA DESIGN



WHAT MAKES THE OCCAM UNIQUE?

01/ TRAIL GEOMETRY (120MM)

02/ MONOCOQUE AND HYDRO ALUMINUM

03/ DIAMOND LINK / ADVANCED DYNAMICS

04/ CONCENTRIC C9-12











GEO CHART / OCCAM OMP

GEOMETRY

SIZE	S	M	L
1 – Seat Tube (C – T)	420	470	520
2 – Top Tube (EFF)	577	612	639
3 – Head Tube	110	120	135
4 – Chainstay	445	445	445
5 – BB Height	327	327	327
6 – BB Drop	44	44	44
7 – Wheelbase	1098	1133	1161
8 – Head Angle	70º/69º	70º/69º	70º/69º
9 – Seat Angle	74º/73º	74º/73º	74º/73º
10 – Standover	720	755	780
11 – Reach	402	435	458
12 – Stack	608	618	632
13 – Fork Length	501/521	501/521	501/521

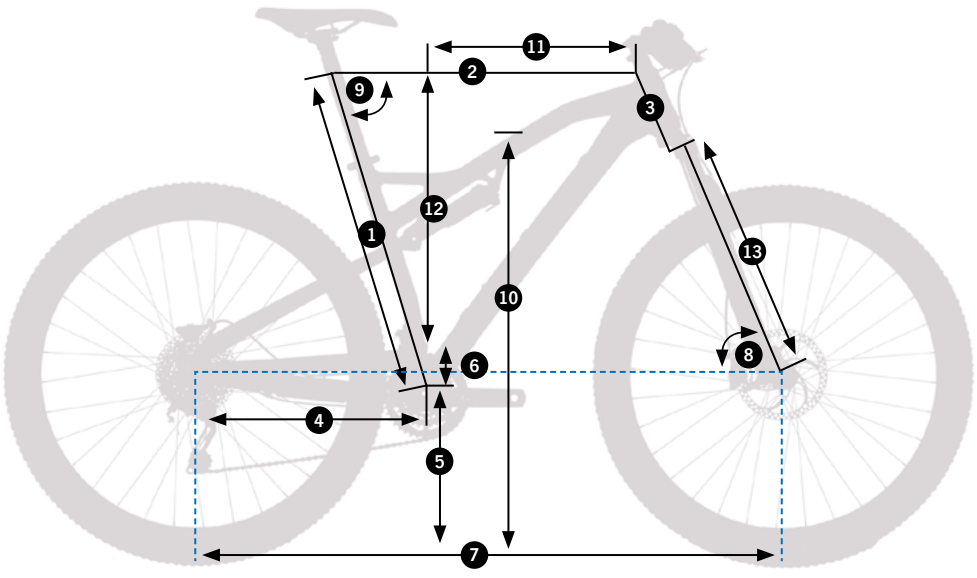
ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S	170	60	720
M	175	70	720
L	175	90	720

Occam M50 Handlebar 710mm for all Sizes.

SIZE

HEIGHT (cm)	SIZE
160 – 175	S
170 – 185	M
180 – 198	L



GEO CHART / OCCAM HYDRO

GEOMETRY

SIZE	S	M	L
1 – Seat Tube (C – T)	420	470	520
2 – Top Tube (EFF)	577	612	639
3 – Head Tube	110	120	135
4 – Chainstay	445	445	445
5 – BB Height	327	327	327
6 – BB Drop	44	44	44
7 – Wheelbase	1098	1133	1161
8 – Head Angle	70º/69º	70º/69º	70º/69º
9 – Seat Angle	74º/73º	74º/73º	74º/73º
10 – Standover	720	755	780
11 – Reach	402	435	458
12 – Stack	608	618	632
13 – Fork Length	501/521	501/521	501/521

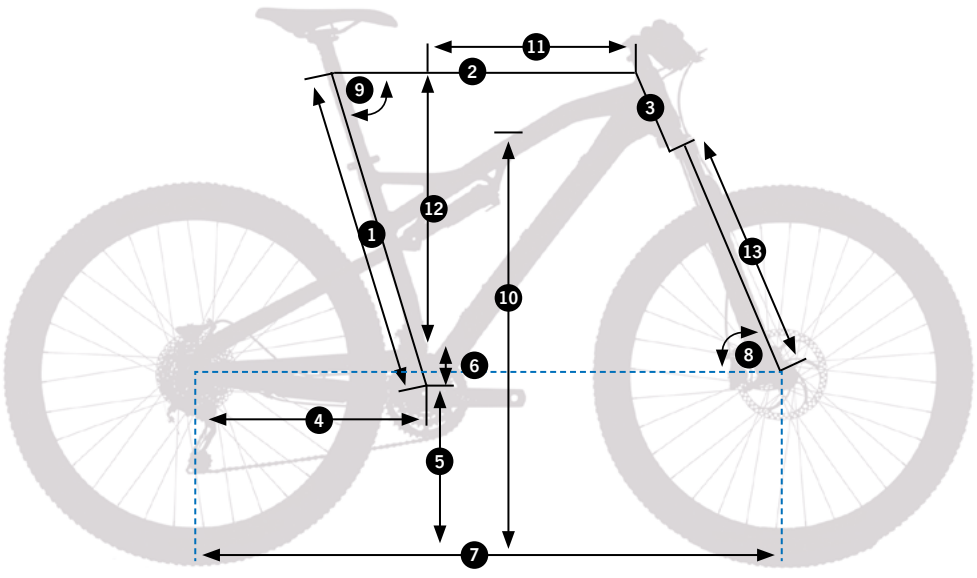
ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S	170	60	710
M	175	70	710
L	175	90	710

H50 Handlebar 700mm for Sizes S and L. H10 Handlebar 700mm Size M.

SIZE

HEIGHT (cm)	SIZE
160 – 175	S
170 – 185	M
180 – 198	L



CONSTRUCTION

01/ TRAIL GEOMETRY

LONGER REACH

More efficient position with shorter stems

LOWER BB

More stability in corners and fast sections

SHORTER STAYS

Greater agility and climbing traction

RELAXED HEAD ANGLE

More stability in steep, rough terrain

STEEPER SEAT ANGLE

Better rider position for climbing in the saddle



02/ MONOCOQUE AND HYDRO ALUMINIUM

MONOCOQUE

Monocoque construction guarantees optimum performance and long term reliability and it's the only way we've ever done it. We mold the fewest structures possible with continuous fibers through each critical juncture. By eliminating bonded zones, our monocoque frames distribute forces more evenly over the entire structure.

OMP CARBON

OMP (Orbea Moncoque Performance) construction consists of high modulus fibers that provide stiffness blended with lower modulus fibers that improve vibration absorption for maximum efficiency and toughness.

HYDRO ALUMINUM

We manipulate the shapes and wall-thickness of our aluminum tubing to increase strength and resistance to unwanted flex. Many of the tubes are butted to save weight in the middle of the tubes, away from the stress of the joints and the weld zones. Using aluminum technologies as advanced as our carbon manufacturing ensures our aluminum bikes are never second-best.

03/ DYAMOND LINK AND ADVANCED DYNAMICS

The Diamond Link rear suspension creates a two-stage leverage rate curve to provide efficiency and control throughout the travel range. The first stage is characterized by a rising leverage ratio. This allows the Occam to offer good sensitivity for small bumps. By keeping the rear wheel on the ground, you'll have traction and control at all times, up hills or down. At about 50% travel, the leverage ratio decreases towards the bottom of the stroke. This gives the Occam a progressively firmer feel for control in fast bermed corners and through successive mid to large sized bumps.

Advanced Dynamics is at the heart of every Orbea suspension bike. It is a process we developed in conjunction with CEIT (Centro de Estudios e Investigaciones Tecnológicas) that allows us to model and test our suspension platforms. Using a vast database of shock tunes and component behaviors we can study a design under a virtual rider that exerts forces on the pedals, saddle and handlebars. We can shape the simulations to evaluate different variables – rider height, weight, riding style – on different tracks. Even tire pressures can be tested and recorded before a welding torch is lit.

This virtual test process allows us to optimize our suspension designs before the prototyping and field testing phases. When the tires finally hit the dirt we can focus instead on fine-tuning damper characteristics and spring curves with our expert suspension partners. This is the obsessive tinkering that turns a good bike into a great one.
The result is a dynamic suspension system that is tuned for variable trail conditions with a leverage rate curve that is specifically matched to the spring and damper.

Advanced Dynamics transforms virtual designs into real, highly-refined machines – Bikes for demanding riders that are faster, more fun to ride and far beyond ordinary.

DATA COLLECTION - VIRTUAL MODELING

PROTOTYPING - SUSPENSION TUNING

PRODUCTION BIKE - TRAIL READY



DATA COLLECTION - VIRTUAL MODELING



PROTOTYPING - SUSPENSION TUNING



PRODUCTION BIKE - TRAIL READY

CONSTRUCTION

04/ CONCENTRIC C9-12

The Orbea C9-12 system features a pivot that is concentric with the rear axle. It allows true separation of braking forces from the swingarm; the seat stays act as a brake floater, much like systems used in motorcycle and auto racing to optimize traction under heavy braking. With the rear wheel following the ground more effectively, you'll have more control and more confidence in edge-of-control situations.

We made sure to provide compatibility for multiple axle systems (QR and 12x142mm) so you can choose whichever you prefer.

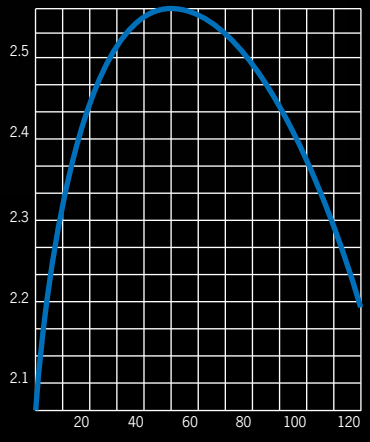




TRAIL SUSPENSION PERFORMANCE

Increasing Leverage: Suspension is softer from beginning stroke through mid-travel for maximum sensitivity. Max sensitivity growth is set between sag and 50% travel for handling small impacts.

Progressive: After 50% travel the suspension increases control by lowering the ratio. In combination with a light compression damping tune, full travel is still used under high speed impacts but this configuration helps prevent mid-stroke wallow that some designs suffer.



FEATURES AND SPECIFICATIONS

CABLE HIGHWAY

Clean, smooth routing system increases performance and decreases maintenance.

CARTRIDGE BEARINGS

Enduro-brand sealed bearings replace shock bushings and are used throughout for ultimate suspension performance.

TAPERED

The Occam features an oversized, tapered headtube (1-1/8" - 1.5") in both the OMR and OMP models to add stiffness and steering precision.



OCCAM



OCCAM 29 M10

CODE	D251
SIZES	S, M, L

COLORS

RED
D6

WHITE - BLUE
D7

Frame	ORBEA MONOCOQUE PERFORMANCE CARBON FRONT TRIANGLE & CHAINTSAYS. HYDROFORMED ALLOY SEATSTAYS. ADVANCED DYNAMICS 105MM SUSPENSION. C9-12 REAR AXLE. CARBON DIAMOND-LINK. TRAIL II GEOMETRY. INTEGRATED CABLE ROUTING
Shock	FOX FLOAT FACTORY CTD REMOTE KASHIMA 184X44MM
Fork	FOX 32 FACTORY FLOAT 120 FIT CTD REMOTE TAPERED QR15 KASHIMA
Crankset	SHIMANO XTR M9020 26X36T
	SHIMANO XTR M9000 28X38T
	SRAM XX1 30T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	RACE FACE NEXT FLAT 720MM
	RACE FACE TURBINE FLAT KIT
Stem	RACE FACE TURBINE
Shifters	SHIMANO XTR M9000
Brakes	SHIMANO XTR M9000 HYDRAULIC DISC
Rear Derailleur	SHIMANO XTR M9000SGS SHADOW PLUS
Front Derailleur	SHIMANO XTR M9025 34,9MM
Chain	SHIMANO HG900
Wheels	MAVIC CROSSMAX SL
Cassette	SHIMANO XTR M9000 11-40 11-SPEED
Tires	MAXXIS ARDENT RACE 2.20" TLR 120 TPI 3C EXO
	MAXXIS IKON 2.2" 3C EXO
Pedals	N/A
Seatpost	RACE FACE NEXT SL 31.6X400MM
	ROCKSHOX REVERB 31.6X380MM
Saddle	FIZIK GOBI MG
	SELLE ITALIA SLR XC FLOW

OCCAM



OCCAM 29 M30

CODE	D250
SIZES	S, M, L
COLORS	

RED
D6

WHITE - BLUE
D7

Frame	ORBEA MONOCOQUE PERFORMANCE CARBON FRONT TRIANGLE & CHAINTSAYS. HYDROFORMED ALLOY SEATSTAYS. ADVANCED DYNAMICS 105MM SUSPENSION. C9-12 REAR AXLE. CARBON DIAMOND-LINK. TRAIL II GEOMETRY. INTEGRATED CABLE ROUTING
Shock	FOX FLOAT FACTORY CTD REMOTE KASHIMA 184X44MM
Fork	FOX 32 FACTORY FLOAT 120 FIT CTD REMOTE TAPERED QR15 KASHIMA
	FOX 32 FLOAT 100FIT CTD REMOTE TAPERED QR15 K
Crankset	SHIMANO SLX M670 24X38T
	SHIMANO SLX M672 22X30X40T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	RACE FACE TURBINE FLAT 720MM
	FSA SLK FLAT KIT
	RACE FACE NEXT FLAT KIT
Stem	RACE FACE TURBINE OEM
Shifters	SHIMANO SLX M670 I-SPEC
Brakes	SHIMANO SLX M675 HYDRAULIC DISC
	FORMULA R1 HYDRAULIC DISC
Rear Derailleur	SHIMANO XT M786 SHADOW PLUS
Front Derailleur	SHIMANO SLX M676 34.9MM
Chain	SHIMANO HG75
Wheels	DT SPLINE X-1700
	MAVIC CROSSMAX SL
Cassette	SHIMANO HG81 11-36 10-SPEED
Tires	MAXXIS ARDENT RACE 2.20" TLR 120 TPI 3C EXO
	MAXXIS IKON 2.2" 3C EXO
Pedals	N/A
	SHIMANO M520
Seatpost	RACE FACE TURBINE 31.6X400MM
	ROCKSHOX REVERB 31.6X380MM
Saddle	FIZIK NISENE
	FIZIK GOBI MG
	SELLE ITALIA SL XC FLOW

OCCAM



OCCAM 29 M50

CODE	D249
SIZES	S, M, L

COLORS

RED
D6

WHITE - BLUE
D7

Frame	ORBEA MONOCOQUE PERFORMANCE CARBON FRONT TRIANGLE & CHAINTSAYS. HYDROFORMED ALLOY SEATSTAYS. ADVANCED DYNAMICS 105MM SUSPENSION. C9-12 REAR AXLE. CARBON DIAMOND-LINK. TRAIL II GEOMETRY. INTEGRATED CABLE ROUTING
Shock	FOX FLOAT CTD 184X44MM
	FOX FLOAT CTD REMOTE184X44MM
	FOX FLOAT CTD REMOTE KASHIMA 184X44MM
Fork	FOX 32 FLOAT 120 O/C CTD TAPERED QR15
	FOX 32 FLOAT 120FIT CTD REMOTE TAPERED QR15 K
Crankset	SHIMANO SLX M670 24X38T
	SHIMANO SLX M672 22X30X40T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	RACE FACE RIDE FLAT 710MM
	FSA SLK FLAT KIT
	RACE FACE TURBINE FLAT KIT
Stem	RACE FACE RIDE
Shifters	SHIMANO SLX M670
Brakes	FORMULA C1 HYDRAULIC DISC
	SHIMANO SLX M675 HYDRAULIC DISC
Rear Derailleur	SHIMANO XT M786 SHADOW PLUS
Front Derailleur	SHIMANO SLX M676 34.9MM
Chain	KMC X10
Wheels	MAVIC CROSS ONE
	DT SPLINE X-1700
	MAVIC CROSSMAX SL
Cassette	SHIMANO HG50 11-36 10-SPEED
Tires	MAXXIS ARDENT RACE 2.20" FB 60 TPI DUAL
Pedals	N/A
	SHIMANO M520
Seatpost	RACE FACE RIDE 31.6X375MM
	ROCKSHOX REVERB 31.6X380MM
Saddle	FIZIK NISENE
	FIZIK GOBI MG
	SELLE ITALIA SL XC FLOW

OCCAM



OCCAM 29 H10

CODE	D248
SIZES	S, M, L
COLORS	

WHITE - RED
D8

WHITE - BLUE
DA

Frame	ORBEA HYDROFORMED TRIPLE BUTTED ALUMINUM. ADVANCED DYNAMICS 105 MM TRAVEL SUSPENSION. C9-12 REAR AXLE SYSTEM. COLD FORGED DIAMOND-LINK SHOCK YOKE. TRAIL II GEOMETRY. INTEGRATED CABLE ROUTING
Shock	FOX FLOAT FACTORY CTD REMOTE KASHIMA 184X44MM
Fork	FOX 32 FACTORY FLOAT 120 FIT CTD REMOTE TAPERED QR15 KASHIMA
Crankset	SHIMANO SLX M670 24X38T
	SHIMANO SLX M672 22X30X40T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	RACE FACE RIDE FLAT 710MM
	FSA SLK FLAT KIT
Stem	RACE FACE RIDE
Shifters	SHIMANO SLX M670 I-SPEC
Brakes	SHIMANO SLX M675 HYDRAULIC DISC
	FORMULA R1 HYDRAULIC DISC
Rear Derailleur	SHIMANO XT M786 SHADOW PLUS
Front Derailleur	SHIMANO SLX M676 34.9MM
Chain	SHIMANO HG75
Wheels	MAVIC CROSS ONE
	DT SPLINE X-1700
	MAVIC CROSSMAX SL
Cassette	SHIMANO HG81 11-36 10-SPEED
Tires	MAXXIS ARDENT RACE 2.20" FB 60 TPI DUAL
Pedals	N/A
	SHIMANO M520
Seatpost	RACE FACE RIDE 31.6X375MM
	ROCKSHOX REVERB 31.6X380MM
Saddle	SELLE ITALIA Q-BIK
	SELLE ITALIA SL XC FLOW

OCCAM



OCCAM 29 H30

CODE	D247
SIZES	S, M, L

COLORS

WHITE - RED
D8

WHITE - BLUE
DA

Frame	ORBEA HYDROFORMED TRIPLE BUTTED ALUMINUM. ADVANCED DYNAMICS 105 MM TRAVEL SUSPENSION. C9-12 REAR AXLE SYSTEM. COLD FORGED DIAMOND-LINK SHOCK YOKE. TRAIL II GEOMETRY. INTEGRATED CABLE ROUTING
Shock	FOX FLOAT CTD 184X44MM
	FOX FLOAT CTD REMOTE184X44MM
	FOX FLOAT CTD REMOTE KASHIMA 184X44MM
Fork	FOX 32 FLOAT 120 O/C CTD TAPERED QR15
	FOX 32 FLOAT 120FIT CTD REMOTE TAPERED QR15 K
Crankset	FSA COMET MEGAEXO 22X30X40
	FSA COMET MEGAEXO 24X38T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	RACE FACE RIDE FLAT 710MM
	FSA SLK FLAT KIT
Stem	RACE FACE RIDE
Shifters	SHIMANO DEORE M591
Brakes	FORMULA C1 HYDRAULIC DISC
	SHIMANO SLX M675 HYDRAULIC DISC
Rear Derailleur	SHIMANO SLX M670 SHADOW
	SHIMANO SLX M670 SHADOW PLUS
Front Derailleur	SHIMANO DEORE M591 34.9MM
Chain	KMC X10
Wheels	MAVIC XM119 DISC
	DT SPLINE X-1700
	TUBELESS MAVIC X-419
	MAVIC CROSSONE
Cassette	SHIMANO HG50 11-36 10-SPEED
Tires	MAXXIS ARDENT RACE 2.20" FB 60 TPI DUAL
Pedals	N/A
	SHIMANO M520
Seatpost	RACE FACE RIDE 31.6X375MM
	ROCKSHOX REVERB 31.6X380MM
Saddle	SELLE ITALIA Q-BIK
	SELLE ITALIA SL XC FLOW

OCCAM



OCCAM 29 H50

CODE	D246
SIZES	S, M, L

COLORS

WHITE - RED
D8

WHITE - BLUE
DA

Frame	ORBEA HYDROFORMED TRIPLE BUTTED ALUMINUM. ADVANCED DYNAMICS 105 MM TRAVEL SUSPENSION. C9-12 REAR AXLE SYSTEM. COLD FORGED DIAMOND-LINK SHOCK YOKE. TRAIL II GEOMETRY. INTEGRATED CABLE ROUTING
Shock	FOX FLOAT CTD 184X44MM
	FOX FLOAT CTD REMOTE184X44MM
	FOX FLOAT CTD REMOTE KASHIMA 184X44MM
Fork	ROCKSHOX XC32 TK AIR 100 TAPERED QR
	FOX 32 FLOAT 120 O/C CTD TAPERED QR15
Crankset	FSA COMET MEGAEXO 22X30X40
	FSA COMET MEGAEXO 24X38T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	ORBEA OC-II FLAT 700MM
	RACE FACE RIDE FLAT KIT
Stem	ORBEA OC-II
Shifters	SHIMANO DEORE M591
Brakes	SHIMANO M396 HYDRAULIC DISC
	FORMULA C1 HYDRAULIC DISC
Rear Derailleur	SHIMANO SLX M670 SHADOW
	SHIMANO SLX M670 SHADOW PLUS
Front Derailleur	SHIMANO DEORE M591 34.9MM
Chain	KMC X10
Wheels	ORBEA ALUMINUM DISC
	TUBELESS MAVIC X-419
	MAVIC CROSSONE
Cassette	SHIMANO HG50 11-36 10-SPEED
Tires	MAXXIS ARDENT RACE 2.20" FB 60 TPI DUAL
Pedals	N/A
	SHIMANO M520
Seatpost	ORBEA OC-II 31.6X400MM
Saddle	SELLE ITALIA Q-BIK
	SELLE ITALIA SL XC FLOW


LUNA





BORN TO WIN.

Oiz is built for one purpose – Speed. The kind of lung-burning, cross-country efficiency that is expected from a racing bike, matched with the desire to dur rough terrain that leaves traditional hardtails behind. Lap after lap, Oiz responds eagerly to each climb, every rocky, root-filled descent, pushing you to ride faster. Oiz is the ultimate advantage – not a machine designed to ride in the middle of the pack – the Oiz was Born to Win.

Name	ORBEA OIZ
Use	XC COMPETITION/ XC LONG DISTANCE
Construction	ORBEA MONOCOQUE
Technology	ADVANCED DYNAMICS/ U-FLEXION BY ORBEA/ MONOCOQUE/ DCR
Orbea values	LIFETIME WARRANTY/ ORBEA DESIGN

HISTORY

THE NAME OIZ

Oiz is a rugged peak in the heart of the Basque Country, the most prominent mountain visible through the windows at Orbea. It symbolizes the tough spirit of competition and stands proudly in the landscape offering a challenge to any rider who chooses to climb the gravel roads to the summit.

MODEL EVOLUTION

The Oiz has long been Orbea's premier XC full suspension racing platform. With the first generation of Oiz we pioneered important features like the UFO chainstay design that paved the way to making the Oiz lighter and stiffer than the competition.
Years of success on the international racing scene helped us make important improvements to the bike's DNA. Rider feedback, new technologies and advances in suspension development laid the groundwork for the new Oiz.

Even before the latest Oiz was unveiled to the public, the new bike was proven at the highest level. In the days leading up to the fifth round of the 2012 World Cup, Catharine Pendrel of Luna Chix did something quite unexpected – she decided to race on her new, unpainted prototype. She was so comfortable on the bike that she won that day in Mont-Sainte-Anne and followed up by winning the next stop in Windham as well. The Oiz notched two World Cup victories and became one of the most exciting new XC stories before it had even gone into production.



WELCOME TO THE NEWEST OIZ

With the stunning success of the revised 2013 platform, we set to work on updating the Oiz for 2015 using our Big Wheels Concept. BWC offers six frames in two wheel sizes – Small, Medium and Large frames with 27.5" wheels, Medium, Large and XL frames with 29" wheels. Our consistent and proportional stack and reach measurements guarantee that every rider experiences the legendary Oiz ride quality in a svelte, fun and fast bike regardless of frame size or wheel size.

27.5 & 29
3+3 BWC SIZES

95 MM
XC TRAVEL

1.65 KG
SM 27.5"





WHAT MAKES OIZ UNIQUE?

Our mission was simple in concept but extremely challenging to execute – bring to life the dream of every pure-XC rider: The lightest, stiffest and most efficient FS XC bike on the market.

01/ BWC

02/ MONOCOQUE

03/ UFO

04/ TENSEGRITY

05/ ADVANCED DYNAMICS


LAZER
LAZER
LUNA


ORBEA



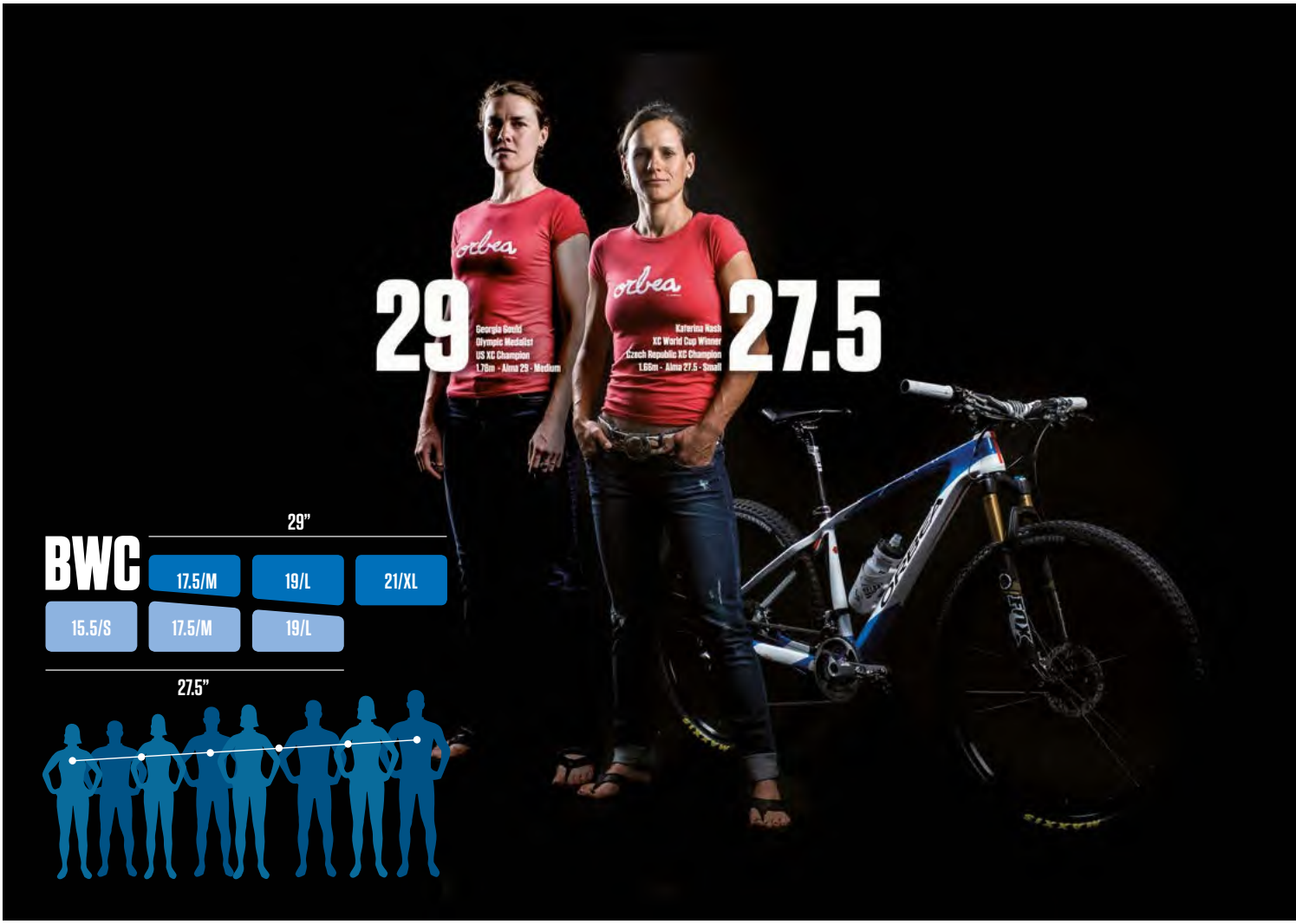
FIT AND PHILOSOPHY

01/ BIG WHEELS CONCEPT

Orbea's Big Wheels Concept (BWC) is simple... Instead of trying to squeeze everybody on a single wheel size, we offer Big Wheels that are scaled to fit riders of any height.

The lution of XC racing has shown that big wheels are better for the huge majority of riders. 29" and 27.5" wheels are the overwhelming choice for the comfort, stability and speed they impart on the trail.

BWC offers six frames in two wheel sizes – Small, Medium and Large frames with 27.5" wheels, Medium, Large and XL frames with 29" wheels. Our consistent and proportional stack and reach measurements guarantee that every rider experiences our legendary XC ride quality in a svelte, fun and fast bike regardless of frame size or wheel size.



GEO CHART / OIZ OMR

GEOMETRY

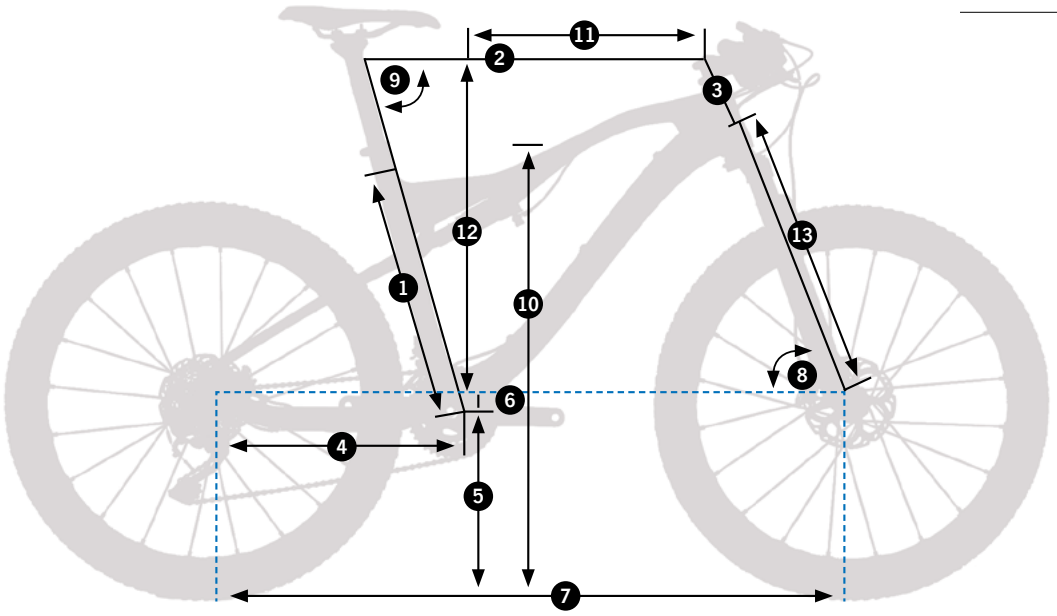
SIZE	S – 27.5”	M – 27.5”	L – 27.5”	M – 29”	L – 29”	XL – 29”
1 – Seat Tube (C – T)	406	432	470	432	470	520
2 – Top Tube (EFF)	552	580	607	589	439	638
3 – Head Tube	100	110	120	100	110	120
4 – Chainstay	425	425	425	440	440	440
5 – BB Height	325	325	325	325	325	325
6 – BB Drop	27	27	27	45	45	45
7 – Wheelbase	1057	1085	1113	1098	1122	1148
8 – Head Angle	70º	70º	70º	70º	70º	70º
9 – Seat Angle	74º	74º	74º	74º	74º	74º
11 – Reach	390	415	440	417	439	461
12 – Stack	565	574	584	597	606	616
13 – Fork Length	487.7	487.7	487.7	500.8	500.8	500.8

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S – 27.5”	170	80	700
M – 27.5” – M – 29”	175	90	700
L – 27.5” – L – 29”	175	90	700
XL – 29”	175	110	700

SIZE

HEIGHT (cm)	SIZE
155 – 170	S – 27.5”
165 – 180	M – 27.5”
178 – 191	L – 27.5”
165 – 180	M – 29”
178 – 190	L – 29”
185 – 198	XL – 29”



GEO CHART / OIZ OMP

GEOMETRY

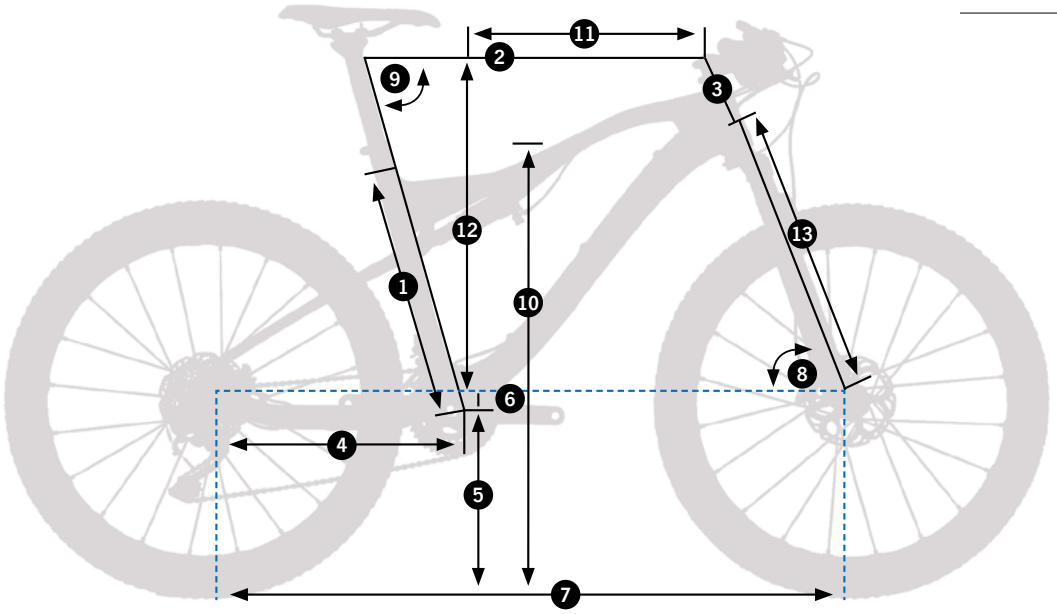
SIZE	S – 27.5"	M – 27.5"	L – 27.5"	M – 29"	L – 29"	XL – 29"
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7 – Wheelbase	1057	1085	1113	1098	1122	1148
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ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
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M – 27.5" – M – 29"	175	90	710
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XL – 29"	175	110	710

SIZE

HEIGHT (cm)	SIZE
155 – 170	S – 27.5"
165 – 180	M – 27.5"
178 – 190	L – 27.5"
165 – 180	M – 29"
178 – 190	L – 29"
185 – 198	XL – 29"



CONSTRUCTION

02/ ORBEA MONOCOQUE CARBON

Monocoque construction guarantees optimum performance and long term reliability and it's the only way we've ever done it. We mold the fewest structures possible with continuous fibers through each critical juncture. By eliminating bonded zones, our monocoque frames distribute forces more evenly over the entire structure.

OMR CARBON (Orbea Moncoque Race) carbon consists of the highest modulus fibers, increasing resistance to twisting and compression and delivering extremely rigid structures. When combined with low-unit-weight fibers, they result in frames with the best stiffness-to-weight ratio.

OMP CARBON (Orbea Moncoque Performance) consists of high modulus fibers that provide stiffness blended with lower modulus fibers that improve vibration absorption for maximum efficiency and toughness.

RELIABILITY - ELIMINATING BONDED AREAS INCREASES STRENGTH

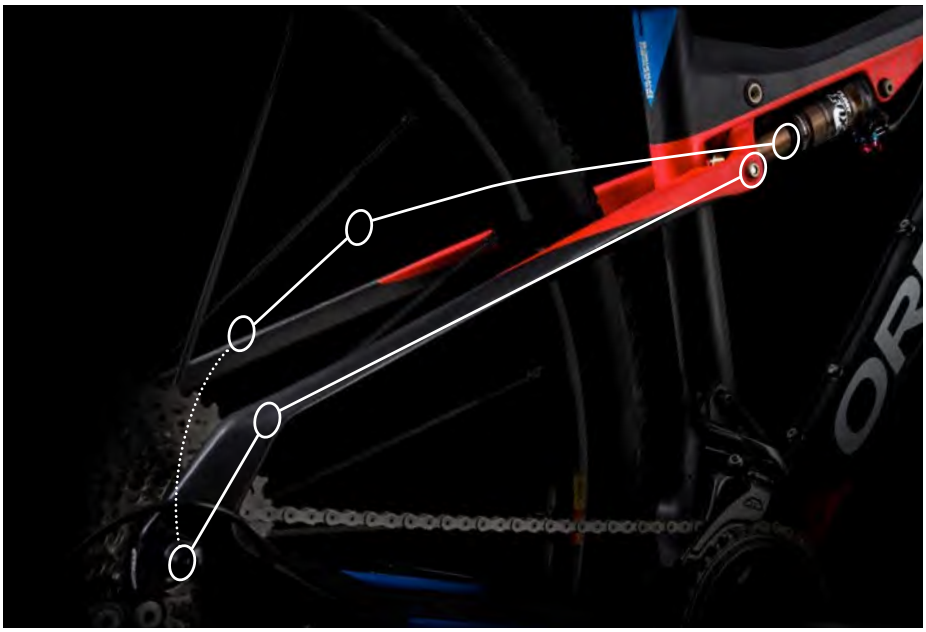
LIGHTNESS - FULL CARBON CONSTRUCTION ELIMINATES ALLOY PARTS

STIFFNESS - SINGLE UNIFORM STRUCTURES ARE BETTER OPTIMIZED TO RESIST DEFLECTION

03/ UFO U-FLEXION BY ORBEA

We've done away with the pivot point at the rear axle. The flexible chainstay UFO technology developed for the previous Oiz was upgraded for the new machine with flexible seatstays. With this innovation, we make an ultralight bike that requires little maintenance and is stiffer for acceleration like you've never seen in a full suspension bike.

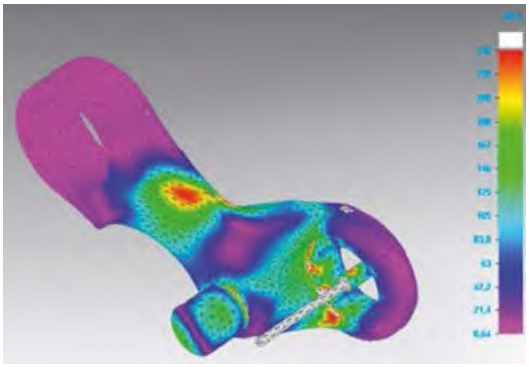
The secret lies in the shape and materials. When properly handled, carbon can be bent. We placed the fibers and shaped the seatstays in such a way that they are allowed to flex without a pivot but deformation doesn't ever approach the critical point. This technology, which has been long in use in F1 cars, delivers unrivaled weight-stiffness balance.



CONSTRUCTION

04/ TENSEGRITY

As part of our monocoque construction philosophy, we worked overtime to create the elegant full-carbon, one piece swing link of the Oiz. To increase rigidity, we placed a minimalist steel tension strut named Tensegrity in the joint between the linkage and the seatstays to balance lateral forces and provide optimal stiffness and very low weight. Tensegrity allows an exceptionally light, carbon shock yoke and does away with a bulky linkage axle that adds weight.



05/ ADVANCED DYNAMICS

Advanced Dynamics is at the heart of every Orbea suspension bike. It is a process we developed in conjunction with CEIT (Centro de Estudios e Investigaciones Tecnológicas) that allows us to model and test our suspension platforms. Using a vast database of shock tunes and component behaviors we can study a design under a virtual rider that exerts forces on the pedals, saddle and handlebars. We can shape the simulations to evaluate different variables – rider height, weight, riding style – on different tracks. Even tire pressures can be tested and recorded before a welding torch is lit.

This virtual test process allows us to optimize our suspension designs before the prototyping and field testing phases. When the tires finally hit the dirt we can focus instead on fine-tuning damper characteristics and spring curves with our expert suspension partners. This is the obsessive tinkering that turns a good bike into a great one.
The result is a dynamic suspension system that is tuned for variable trail conditions with a leverage rate curve that is specifically matched to the spring and damper.

Advanced Dynamics transforms virtual designs into real, highly-refined machines – Bikes for demanding riders that are faster, more fun to ride and far beyond ordinary.



DATA COLLECTION - VIRTUAL MODELING



PROTOTYPING - SUSPENSION TUNING



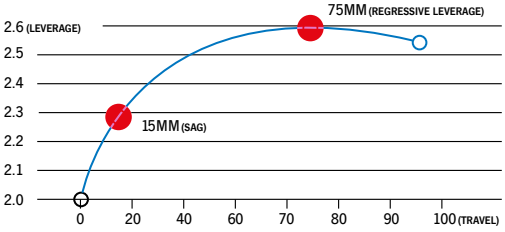
PRODUCTION BIKE - PODIUM READY

SUSPENSION DESIGN

XC SUSPENSION PERFORMANCE

The main pivot point on the new Oiz was raised to work efficiently with both single and double chainring setups and customized shock dampers were developed with Fox to match the characteristics of the suspension design. The leverage ratio curve achieved by this bike is perfect for efficient XC riding. Sag can be set as low as 15-20% for a firm pedaling feel but the regressive leverage design still allows full travel when needed. Custom tuning of the damper minimizes bottom-out forces and keeps the suspension riding high in the first 50% of travel, maintaining geometry and efficiency.

OIZ SUSPENSION CURVE





CONSTRUCTION

FRAME FEATURES AND DETAILS





PRESS FIT

The new Oiz is designed around a PressFit (PF92) bottom bracket shell. The wider shell ensures optimal stiffness and larger bearings with better seals offer increased durability, reduced maintenance and friction.

DM FD

The new Oiz has a direct-mount front derailleur interface that is ready for traditional, side-swing, new XTR or electronic shifting options.

DCR

Direct Cable Routing protects the cables, reduces friction and enhances durability. Thanks to full cable sealing and internal routing, contamination is lessened and friction reduced by up to 25%. There is a lighter and more precise feel at the levers - function, simplicity, and tidiness are paramount. Less cable housing means that system weight is reduced.

TAPERED

The Oiz features an oversized, tapered headtube (1-1/8" - 1.5") in both the OMR and OMP models to add stiffness and steering precision.

DI2 READY

The Oiz is ready for electronic or mechanical shifting - the choice is yours to make. Oiz relies on built-in pathways that ease the installation of cables or wires and results in streamlined, flawless shifting performance.



OIZ M-LTD

CODE	D240,D234
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

RED-BLUE
L7

WHITE - BLUE
L8

Frame	ORBEA MONOCOQUE RACE CARBON. CARBON UFO II REAR TRIANGLE. ADVANCED DYNAMICS 95MM SUSPENSION. CARBON SHOCK YOKE. INTERNAL DCR CABLE ROUTING. TAPERED HEAD TUBE. PF92 PRESS FIT. DIRECT POST MOUNT. ICD
Shock	FOX FLOAT FACTORY ICD KASHIMA 165X38MM
Fork	FOX 32 FACTORY FLOAT 100 FIT ICTD TAPERED QR15 KASHIMA
	FOX 32 FLOAT 100FIT CTD REM QR15T K+FOX CTD REM K
Crankset	SHIMANO XTR M9000 28X38T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	FSA K-FORCE FLAT 700MM
Stem	FSA ST-OS-99 CSI
Shifters	SHIMANO XTR DI2 M9000
Brakes	SHIMANO XTR M9000 HYDRAULIC DISC
Rear Derailleur	SHIMANO XTR DI2 SGS SHADOW PLUS
Front Derailleur	SHIMANO XTR DI2 34-38T
Chain	SHIMANO HG900
Wheels	MAVIC CROSSMAX SL
Cassette	SHIMANO XTR M9000 11-40 11-SPEED
Tires	MAXXIS IKON 2.20" 3C-EXC
	MAXXIS ARDENT RACE 2.2" TLR 60 TPI EXO DUAL
Pedals	N/A
Seatpost	FSA K-FORCE DI2 SB0 31,6X400MM
Saddle	SELLE ITALIA SLR XC GEL FLOW



OIZ M-TEAM

CODE	D239,D233
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

RED-BLUE
L7

WHITE - BLUE
L8

Frame	ORBEA MONOCOQUE RACE CARBON. CARBON UFO II REAR TRIANGLE. ADVANCED DYNAMICS 100MM SUSPENSION. CARBON SHOCK YOKE. INTERNAL DCR CABLE ROUTING. TAPERED HEAD TUBE. PF92 PRESS FIT. DIRECT POST MOUNT. ICD
Shock	FOX FLOAT FACTORY CTD REMOTE KASHIMA (165X38)
Fork	FOX 32 FACTORY FLOAT 100 FIT CTD REMOTE TAPERED QR15 KASHIMA
Crankset	SHIMANO XTR M9020 26X36T
	SRAM XX1 30T
	SHIMANO XTR M9000 28X38T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	FSA K-FORCE FLAT 700MM
Stem	FSA OS-99 CSI
Shifters	SHIMANO XTR M9000
Brakes	SHIMANO XTR M9000 HYDRAULIC DISC
Rear Derailleur	SHIMANO XTR M9000SGS SHADOW PLUS
Front Derailleur	SHIMANO XTR DIRECT MOUNT
Chain	SHIMANO HG900
Wheels	MAVIC CROSSMAX SL
Cassette	SHIMANO XTR M9000 11-40 11-SPEED
Tires	MAXXIS IKON 2.20" 3C-EXC
	MAXXIS ARDENT RACE 2.2" TLR 60 TPI EXO DUAL
Pedals	N/A
Seatpost	FSA K-FORCE LIGHT SB0 31,6X400MM
Saddle	SELLE ITALIA SLR XC GEL FLOW



OIZ M10

CODE	D238,D232
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

RED-BLUE
L7

WHITE - BLUE
L8

Frame	ORBEA MONOCOQUE RACE CARBON. CARBON UFO II REAR TRIANGLE. ADVANCED DYNAMICS 100MM SUSPENSION. CARBON SHOCK YOKE. INTERNAL DCR CABLE ROUTING. TAPERED HEAD TUBE. PF92 PRESS FIT. DIRECT POST MOUNT. ICD
Shock	FOX FLOAT CTD REMOTE KASHIMA (165X38)
Fork	FOX 32 FLOAT 100 FIT CTD REMOTE TAPERED QR15 KASHIMA
Crankset	SHIMANO XT M785 24X38T
	SHIMANO XT M782 22X30X40T
	SHIMANO XTR M9000 26X36T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	FSA SL-K FLAT 700MM
	FSA K-FORCE FLAT KIT
Stem	FSA SL-K
Shifters	SHIMANO XT M780
Brakes	FORMULA R1 HYDRAULIC DISC
	SHIMANO XTR RACE M9000 HYDRAULIC DISC
Rear Derailleur	SHIMANO XTR M986 SHADOW PLUS
Front Derailleur	SHIMANO SLX DIRECT MOUNT
Chain	SHIMANO HG75 10-SPEED
Wheels	DT SPLINE X-1700
	MAVIC CROSSMAX SL
	SHIMANO XTR M9000
Cassette	SHIMANO HG81 11-36 10-SPEED
Tires	MAXXIS IKON 2.20" 3C-SPEED
	MAXXIS ARDENT RACE 2.2" TLR 60 TPI EXO DUAL
Pedals	N/A
	SHIMANO M9000
Saddle	SELLE ITALIA SL XC FLOW
	SELLE ITALIA SLR XC FLOW



OIZ M20

CODE	D237,D231
SIZES	27'5": S, M, L / 29": M, L, XL

COLORS

BLACK
L5

BLACK-WHITE
L6

Frame	ORBEA MONOCOQUE PERFORMANCE CARBON. CARBON UFO II REAR TRIANGLE. ADVANCED DYNAMICS 100MM TRAVEL. CARBON SHOCK YOKE. INTERNAL DCR CABLE ROUTING. TAPERED HEAD TUBE. PF92 PRESS FIT. DIRECT POST MOUNT. ICD READY
Shock	FOX FLOAT FACTORY CTD REMOTE KASHIMA (165X38)
Fork	FOX 32 FACTORY FLOAT 100 FIT CTD REMOTE TAPERED QR15 KASHIMA
Crankset	SHIMANO XT M785 24X38T
	SHIMANO XT M782 22X30X40T
	SHIMANO XTR M9000 26X36T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	RACE FACE RIDE FLAT 710MM
	FSA SLK FLAT KIT
Stem	RACE FACE RIDE
Shifters	SHIMANO SLX M670 I-SPEC
Brakes	SHIMANO SLX M675 HYDRAULIC DISC
	FORMULA R1 HYDRAULIC DISC
Rear Derailleur	SHIMANO XTR M986 SHADOW PLUS
Front Derailleur	SHIMANO SLX DIRECT MOUNT
Chain	SHIMANO HG75
Wheels	DT SPLINE X-1700
	MAVIC CROSSMAX SL
Cassette	SHIMANO HG81 11-36 10-SPEED
Tires	MAXXIS IKON 2.20" 3C-EXC
	MAXXIS ARDENT RACE 2.2" TLR 60 TPI EXO DUAL
Pedals	N/A
	SHIMANO M520
Seatpost	RACE FACE RIDE 31.6X375MM
Saddle	SELLE ITALIA SL XC FLOW
	SELLE ITALIA SLR XC FLOW



OIZ M30

CODE	D236,D230
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

BLACK
L5

BLACK-WHITE
L6

Frame	ORBEA MONOCOQUE PERFORMANCE CARBON. CARBON UFO II REAR TRIANGLE. ADVANCED DYNAMICS 100MM TRAVEL. CARBON SHOCK YOKE. INTERNAL DCR CABLE ROUTING. TAPERED HEAD TUBE. PF92 PRESS FIT. DIRECT POST MOUNT. ICD READY
Shock	FOX FLOAT CTD REMOTE (165X38)
	FOX FLOAT CTD REMOTE KASHIMA 165X38MM
Fork	FOX 32 FLOAT 100 O/C CTD TAPERED QR15
	FOX 32 FLOAT 100FIT CTD REMOTE TAPERED QR15 K
Crankset	SHIMANO SLX M670 24X38T
	SHIMANO SLX M672 22X30X40T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	RACE FACE RIDE FLAT 710MM
	FSA SLK FLAT KIT
Stem	RACE FACE RIDE
Shifters	SHIMANO SLX M670 I-SPEC
Brakes	SHIMANO SLX M675 HYDRAULIC DISC
	FORMULA R1 HYDRAULIC DISC
Rear Derailleur	SHIMANO XT M786 SHADOW PLUS
Front Derailleur	SHIMANO SLX DIRECT MOUNT
Chain	SHIMANO HG75
Wheels	DT SPLINE X-1700
	MAVIC CROSSMAX SL
Cassette	SHIMANO HG81 11-36 10-SPEED
Tires	MAXXIS IKON 2.20" 3C-EXC
	MAXXIS ARDENT RACE 2.2" TLR 60 TPI EXO DUAL
Pedals	N/A
	SHIMANO M520
Seatpost	RACE FACE RIDE 31.6X375MM
Saddle	SELLE ITALIA SL XC FLOW
	SELLE ITALIA SLR XC FLOW



OIZ M50

CODE	D235,D229
SIZES	27’5”: S, M, L / 29”: M, L, XL
COLORS	

BLACK
L5

BLACK-WHITE
L6

Frame	ORBEA MONOCOQUE PERFORMANCE CARBON. CARBON UFO II REAR TRIANGLE. ADVANCED DYNAMICS 100MM TRAVEL. CARBON SHOCK YOKE. INTERNAL DCR CABLE ROUTING. TAPERED HEAD TUBE. PF92 PRESS FIT. DIRECT POST MOUNT. ICD READY
Shock	FOX FLOAT CTD REMOTE (165X38)
	FOX FLOAT CTD REMOTE KASHIMA 165X38MM
Fork	FOX 32 FLOAT 100 O/C CTD TAPERED QR15
	FOX 32 FLOAT 100FIT CTD REMOTE TAPERED QR15 K
Crankset	FSA COMET MEGAEXO 24X38
	FSA COMET MEGAEXO 22X30X40T
Headset	FSA 1-1/8 - 1-1/2” INTEGRATED
Handlebar	RACE FACE RIDE FLAT 710MM
	FSA SLK FLAT KIT
Stem	RACE FACE RIDE
Shifters	SHIMANO SLX M670
Brakes	FORMULA C1 HYDRAULIC DISC
	SHIMANO SLX M675 HYDRAULIC DISC
Rear Derailleur	SHIMANO SLX M670 SHADOW PLUS
Front Derailleur	SHIMANO DEORE DIRECT MOUNT
Chain	KMC X10
Wheels	MAVIC CROSS ONE
	DT SPLINE X-1700
	MAVIC CROSSMAX SL
Cassette	SHIMANO HG50 11-36 10-SPEED
Tires	MAXXIS IKON 2.20” FB 60 TPI DUAL
	MAXXIS ARDENT RACE 2.2” FB 60 TPI EXO
Pedals	N/A
	SHIMANO M520
Seatpost	RACE FACE RIDE 31.6X375MM
Saddle	SELLE ROYAL SETA S1
	SELLE ITALIA SL XC FLOW


ORBEA





(*)

POWER HAS NEVER BEEN SO SUBTLE.

The most exciting objects are those that illicit desire without reason. They have a personality that gives them life. A personality that makes them unique. To some, it is simply a bicycle. To others, it is inspiration. Desire. A communication between the heart and the mind. An organic feeling, applied with mastery and respect to the history of the object. Consideration of the smallest detail makes it an object of desire.

Smoothness becomes strength. Agility becomes accuracy. Lightness becomes power. Organic becomes pure emotion. Alma. Power has never been so subtle.

Name	ORBEA ALMA
Uso	XC COMPETITION
Construction	MONOCOQUE
Technology	MONOCOQUE/ 4X4/ BIG WHEEL CONCEPT/ DCR/ DI2 READY
Orbea values	LIFETIME WARRANTY/ ORBEA DESIGN

* Bike of the year for the spanish Bike magazine readers.

HISTORY

THE NAME ALMA

Alma is more than a few numbers, Alma is Soul. Alma has a ride quality, a racing pedigree, an equal measure of passion and special sauce that has been part of the process since 2006. It's a soul that anyone can experience pedaling this machine through the mountains it calls home. Alma - Spanish for Soul.



2003
STARSHIP KILO.

First Orbea XC frame made with Alu 6000 and Triple Butted Tubes.



2005
THE FIRST STEP TOWARD MTB GLORY.

2006
THE ALMA IS BORN.

Orbea's first carbon MTB model:
XC Geometry, Four Point Triangle Technology and Monocoque Construction.



2007
THE ALMA 29 IS BORN

The world's first production carbon 29" MTB: XC Geometry,
Four Point Triangle Technology and Monocoque Construction.

2008
ORBEA ALMA SL 2.5R, A GOLD BICYCLE.



2010
WE HAD A DREAM LAST NIGHT: IT WAS THE ALMA / SECOND GENERATION OF THE ALMA 26

Four Point Triangle evolution to 4x4 Technology, Monocoque, DCR and SSN.



2011
SECOND GENERATION OF THE ALMA 29.

Four Point Triangle evolution to 4x4 Technology, Monocoque, DCR and SSN.

2014
ALMA, POWER HAS NEVER BEEN SO SUBTLE.

4X4
DCR Interno
Monocoque
XC Geometry
Big Wheels Concept





WHAT MAKES ALMA UNIQUE?

We talk about a bike's weight, stiffness or price. But Alma is more than a few numbers, Alma is Soul. Alma has a ride quality, a racing pedigree, an equal measure of passion and special sauce that has been part of the process since 2006. It's a soul that anyone can experience pedaling this machine through the mountains it calls home. Alma - Spanish for Soul.

01/ BWC

02/ MONOCOQUE

03/ 4X4

04/ INTERNAL DCR/DI2


ORBEA
SHIMANO
SHIMANO
55


LUNA
22

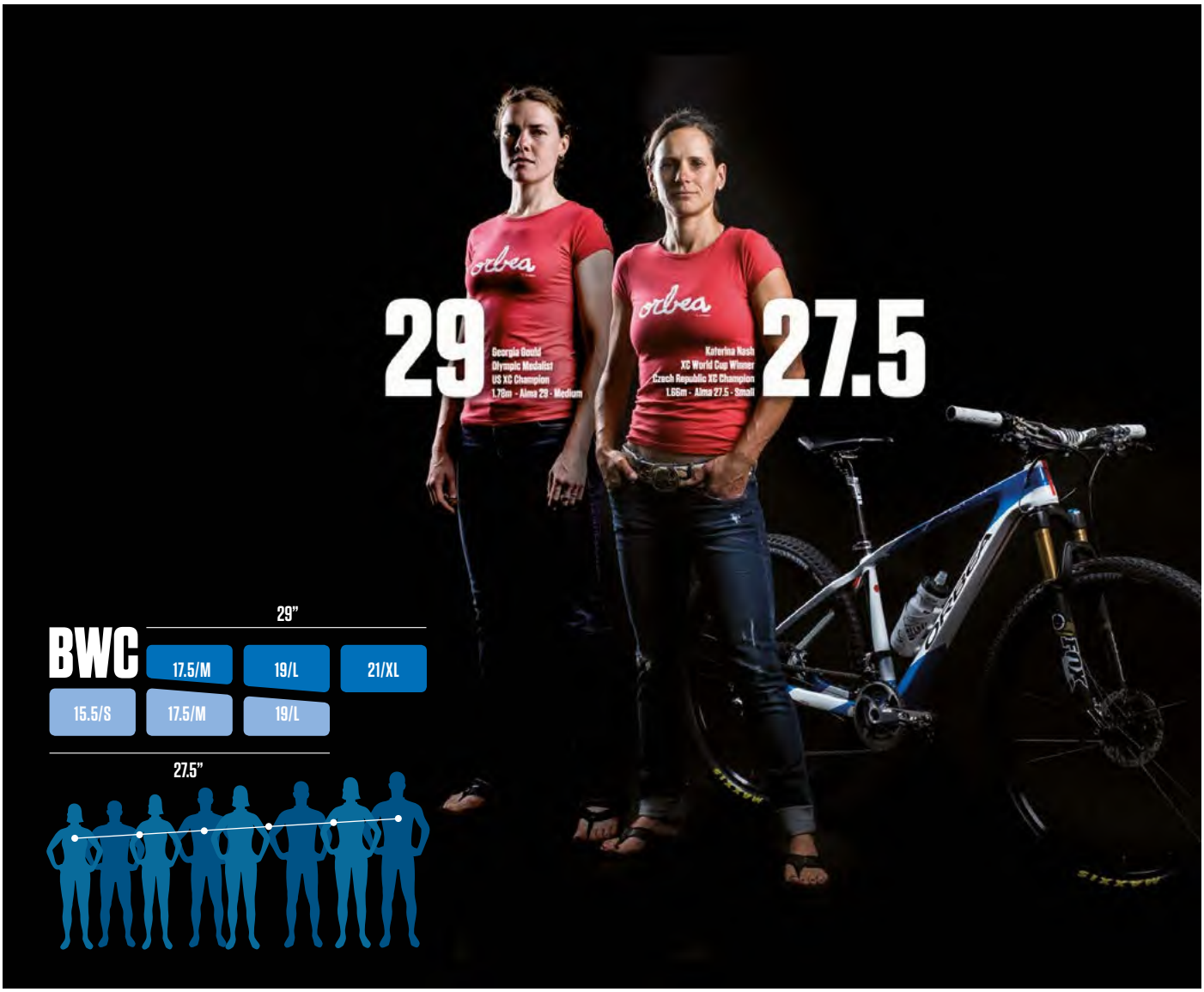
FIT AND PHILOSOPHY

01/ BIG WHEELS CONCEPT

Orbea's Big Wheels Concept (BWC) is simple... Instead of trying to squeeze everybody on a single wheel size, we offer Big Wheels that are scaled to fit riders of any height.

The lution of XC racing has shown that big wheels are better for the huge majority of riders. 29" and 27.5" wheels are the overwhelming choice for the comfort, stability and speed they impart on the trail.

BWC offers six frames in two wheel sizes – Small, Medium and Large frames with 27.5" wheels, Medium, Large and XL frames with 29" wheels. Our consistent and proportional stack and reach measurements guarantee that every rider experiences our legendary XC ride quality in a svelte, fun and fast bike regardless of frame size or wheel size.



GEO CHART / ALMA OMR

GEOMETRY

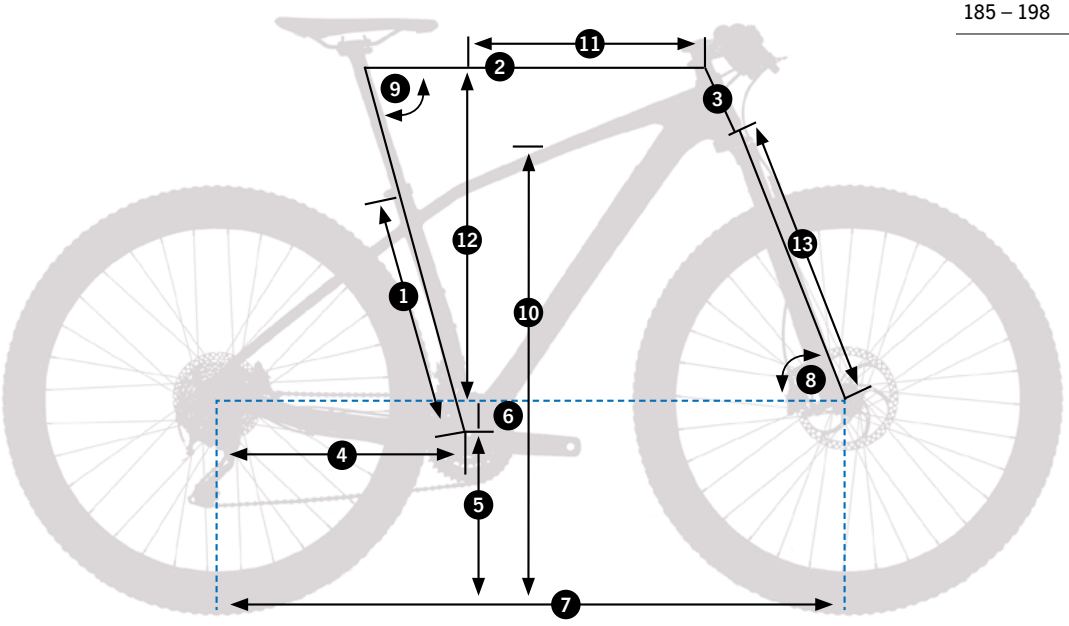
SIZE	S – 27.5”	M – 27.5”	L – 27.5”	M – 29”	L – 29”	XL – 29”
1 – Seat Tube (C – T)	400	445	483	445	483	533
2 – Top Tube (EFF)	552	583	606	591	613	638
3 – Head Tube	95	105	115	100	110	125
4 – Chainstay	423	423	423	436	436	436
5 – BB Height	313	313	313	310	310	310
6 – BB Drop			42			
7 – Wheelbase	1038	1070	1093	1084	1106	1132
8 – Head Angle	70,5º	70,5º	70,5º	70,5º	70,5º	70,5º
9 – Seat Angle	73,5º	73,5º	73,2º	73,5º	73,5º	73,5º
10 – Standover	720	747	775	747	777	820
11 – Reach	380	409	429	409	423	449
12 – Stack	577	587	596	611	621	635
13 – Fork Length	489	489	489	501	501	501

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S – 27.5”	170	80	700
M – 27.5” – M – 29”	175	90	700
L – 27.5” – L – 29”	175	90	700
XL – 29”	175	110	700

SIZE

HEIGHT (cm)	SIZE
155 – 170	S – 27.5”
165 – 180	M – 27.5”
178 – 190	L – 27.5”
165 – 180	M – 29”
178 – 190	L – 29”
185 – 198	XL – 29”



GEO CHART / ALMA OMP

GEOMETRY

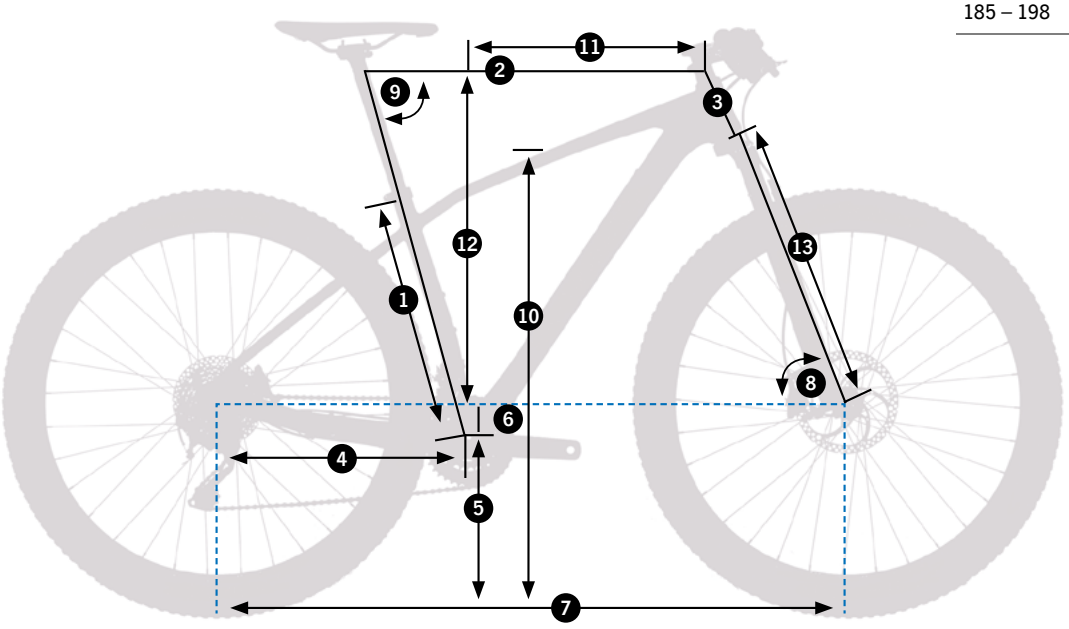
SIZE	S – 27.5”	M – 27.5”	L – 27.5”	M – 29”	L – 29”	XL – 29”
1 – Seat Tube (C – T)	400	445	483	445	483	533
2 – Top Tube (EFF)	552	583	606	591	613	638
3 – Head Tube	95	105	115	100	110	125
4 – Chainstay	423	423	423	436	436	436
5 – BB Height	313	313	313	310	310	310
6 – BB Drop			42			
7 – Wheelbase	1038	1070	1093	1084	1106	1132
8 – Head Angle	70,5º	70,5º	70,5º	70,5º	70,5º	70,5º
9 – Seat Angle	73,5º	73,5º	73,2º	73,5º	73,5º	73,5º
10 – Standover	720	747	775	747	777	820
11 – Reach	380	409	429	409	423	449
12 – Stack	577	587	596	611	621	635
13 – Fork Length	489	489	489	501	501	501

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S – 27.5”	170	70	710
M – 27.5” – M – 29”	175	90	710
L – 27” – L – 29”	175	90	710
XL – 29”	175	110	710

SIZE

HEIGHT (cm)	SIZE
155 – 170	S – 27.5”
165 – 180	M – 27.5”
178 – 190	L – 27.5”
165 – 180	M – 29”
178 – 190	L – 29”
185 – 198	XL – 29”



GEO CHART / ALMA H

GEOMETRY

SIZE	S – 27.5”	M – 27.5”	L – 27.5”	M – 29”	L – 29”	XL – 29”
1 – Seat Tube (C – T)	400	445	483	445	483	533
2 – Top Tube (EFF)	552	583	606	591	613	638
3 – Head Tube	95	105	115	100	110	125
4 – Chainstay	423	423	423	436	436	436
5 – BB Height	313	313	313	310	310	310
6 – BB Drop	42	42	42	60	60	60
7 – Wheelbase	1038	1070	1093	1084	1106	1132
8 – Head Angle	70,5º	70,5º	70,5º	70,5º	70,5º	70,5º
9 – Seat Angle	73,5º	73,5º	73,2º	73,5º	73,5º	73,5º
10 – Standover	720	747	775	747	777	820
11 – Reach	380	409	429	409	423	449
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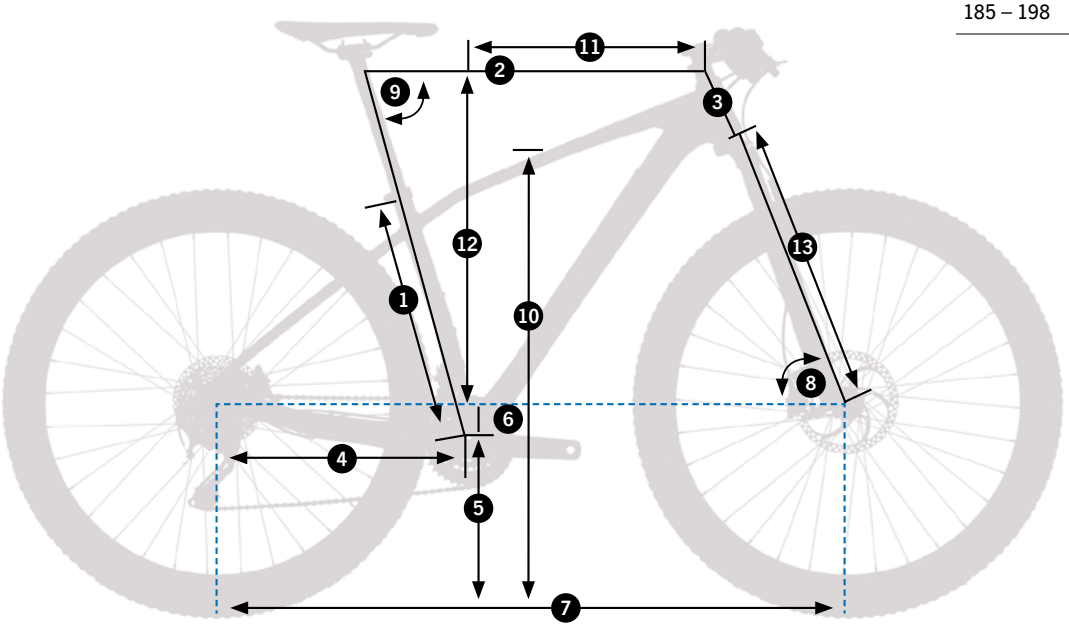
ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S – 27.5”	170	70	710
M – 27.5” – M – 29”	175	90	710
L – 27.5” – L – 29”	175	90	710
XL – 29”	175	110	710

H30 Handlebar 700mm for all Sizes.

SIZE

HEIGHT (cm)	SIZE
155 – 170	S – 27.5”
165 – 180	M – 27.5”
178 – 190	L – 27.5”
165 – 180	M – 29”
178 – 190	L – 29”
185 – 198	XL – 29”



CONSTRUCTION

02/ ORBEA MONOCOQUE CARBON

Monocoque construction guarantees optimum performance and long term reliability and it's the only way we've ever done it. We mold the fewest structures possible with continuous fibers through each critical juncture. By eliminating bonded zones, our monocoque frames distribute forces more evenly over the entire structure.

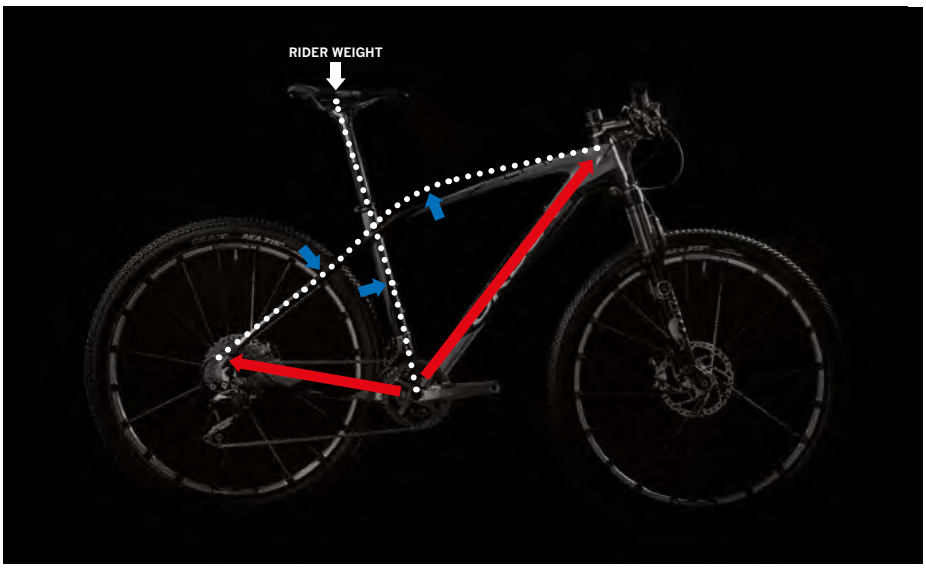
OMR CARBON (Orbea Moncoque Race) carbon consists of the highest modulus fibers, increasing resistance to twisting and compression and delivering extremely rigid structures. When combined with low-unit-weight fibers, they result in frames with the best stiffness-to-weight ratio.

OMP CARBON (Orbea Moncoque Performance) consists of high modulus fibers that provide stiffness blended with lower modulus fibers that improve vibration absorption for maximum efficiency and toughness.

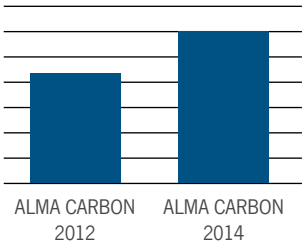
03/ 4X4, STIFFER, SMOOTHER

The stiffest bike available is not the best bike. Ride quality - Smoothness - is an elusive blend of elements and careful planning that results in an Alma that is a joy to ride. The natural flex created by adding a fourth bend to the front and rear triangles offers an efficient, smooth ride that feels like floating over rough terrain. The new Alma is stiffer laterally but astonishingly more compliant than the previous model. At the end of a grueling race it could make the difference between the podium and the consolation prize.

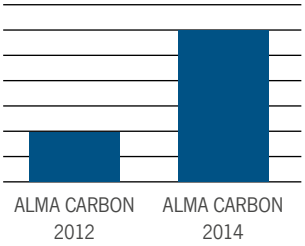
COMPLIANCE
RIGIDITY



115% STIFFNESS



211% COMPLIANCE



04/ DCR SILENT PRECISION

Direct Cable Routing means that control cables take the shortest route with the fewest bends and the smallest amount of housing. Reducing heavy housing saves weight and poly tubes protect the cables, reduce friction and enhance durability. Thanks to full cable sealing and internal routing, contamination is lessened and friction reduced by up to 25%. There is a lighter and more precise feel at the levers - function, simplicity, and tidiness are paramount.

DI2 READY

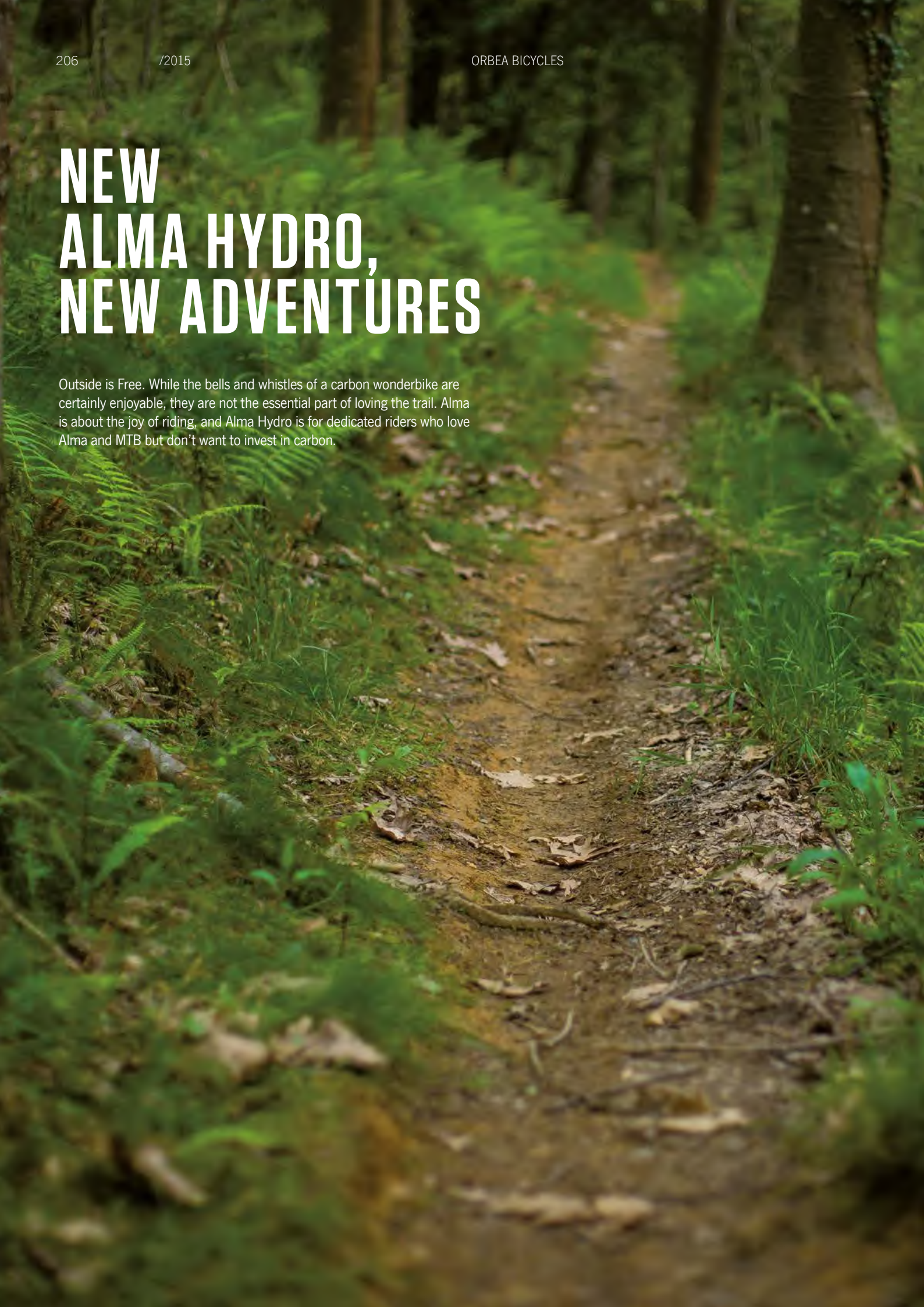
The Alma is ready for electronic or mechanical shifting - the choice is yours to make. Alma relies on built-in pathways that ease the installation of cables or wires and results in streamlined, flawless shifting performance.





NEW ALMA HYDRO, NEW ADVENTURES

Outside is Free. While the bells and whistles of a carbon wonderbike are certainly enjoyable, they are not the essential part of loving the trail. Alma is about the joy of riding, and Alma Hydro is for dedicated riders who love Alma and MTB but don't want to invest in carbon.





WHAT MAKES ALMA HYDRO UNIQUE?

Updated alloy tubing and shapes borrow the technologies of our premier carbon Alma to make the best hydroformed aluminum hardtail available.

Our Big Wheels Concept (BWC) offers 27.5" And 29" wheels to fit every rider perfectly.

01/ BWC AND ORBEA XC GEOMETRY

02/ HYDROFORMED ALUMINUM

03/ 4X4

CONSTRUCTION

01/ BIG WHEELS CONCEPT

Orbea's Big Wheels Concept (BWC) is simple... Instead of trying to squeeze everybody on a single wheel size, we offer Big Wheels that are scaled to fit riders of any height.

The lution of XC racing has shown that big wheels are better for the huge majority of riders. 29" and 27.5" wheels are the overwhelming choice for the comfort, stability and speed they impart on the trail.

BWC offers six frames in two wheel sizes – Small, Medium and Large frames with 27.5" wheels, Medium, Large and XL frames with 29" wheels. Our consistent and proportional stack and reach measurements guarantee that every rider experiences our legendary XC ride quality in a svelte, fun and fast bike regardless of frame size or wheel size.

02/ ORBEA HYDRO ALLOY

We manipulate the shapes and wall-thickness of our aluminum tubing to increase strength and resistance to unwanted flex. Many of the tubes are butted to save weight in the middle of the tubes, away from the stress of the joints and the weld zones. Using aluminum technologies as advanced as our carbon manufacturing ensures our aluminum bikes are never second-best.

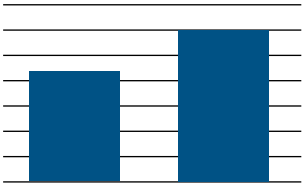
RELIABILITY - ORBEA LIFETIME WARRANTY

LIGHTNESS - 1650G

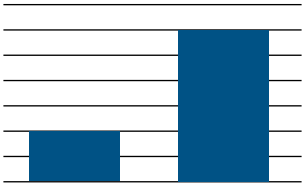
STIFFNESS - 15% STIFFER THAN ALMA HYDRO 2013

03/ 4X4, STIFFER, SMOOTHER

The stiffest bike available is not the best bike. Ride quality - Smoothness - is an elusive blend of elements and careful planning that results in an Alma that is a joy to ride. The natural flex created by adding a fourth bend to the front and rear triangles offers an efficient, smooth ride that feels like floating over rough terrain. The new Alma is stiffer laterally but astonishingly more compliant than the previous model. At the end of a grueling race it could make the difference between the podium and the consolation prize.



STIFFNESS
115%



COMPLIANCE
168%

FRAME FEATURES AND DETAILS



DCR

DCR (Direct Cable Routing) protects cables, reduces friction and enhances durability. Thanks to full cable sealing, contamination is lessened and friction reduced by up to 25%.



POST MOUNT DIRECT

Why have an adapter for the rear brake caliper when it can be mounted directly to the chainstay? We did away with two bolts and an extra part, creating a simple, clean and rigid setup.



TAPERED

The Alma features an oversized, tapered headtube (1-1/8" - 1.5") and large downtube to increase frame stiffness and steering precision.



DISCRETE MOUNTS

Rack or fender mounts are an essential feature for some riders. Since they are hidden, the Alma riders who don't need them might never know they are there.

ALMA



ALMA M-LTD

CODE	D228,D222
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

RED-BLUE
RD

WHITE - BLUE
RF

Frame	ORBEA MONOCOQUE RACE CARBON. PATENTED 4X4 CONSTRUCTION. DCR INTERNAL CABLE ROUTING. XC RACING GEOMETRY. TAPERED HEAD TUBE. PF92 PRESS FIT. DIRECT POST MOUNT DISC BRAKE. DI2 READY
Fork	FOX 32 FACTORY FLOAT 100 FIT ICTD TAPERED QR15 KASHIMA
	FOX 32 FLOAT 100FIT CTD REMOTE TAPERED QR15 K
Crankset	SHIMANO XTR M9020 26X36T
	SHIMANO XTR M9000 28X38T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	FSA K-FORCE FLAT 700MM
Stem	FSA OS-99 CSI
Shifters	SHIMANO XTR DI2 M9000
Brakes	SHIMANO XTR M9000 HYDRAULIC DISC
Rear Derailleur	SHIMANO XTR DI2 SGS SHADOW PLUS
Front Derailleur	SHIMANO XTR DI2 M970 34-38T
Chain	SHIMANO HG900
Wheels	MAVIC CROSSMAX SL
Cassette	SHIMANO XTR M9000 11-40 11-SPEED
Tires	MAXXIS IKON 2.20" 3C-EXC
	MAXXIS ARDENT RACE 2.2" TLR 60 TPI EXO DUAL
Pedals	N/A
Seatpost	FSA K-FORCE LIGHT SB0 27.2X400MM DI2
Saddle	SELLE ITALIA SLR XC GEL FLOW
Display	SHIMANO XTR DI2

ALMA



ALMA M-TEAM

CODE	D227,D221
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

RED-BLUE
RD

WHITE - BLUE
RF

Frame	ORBEA MONOCOQUE RACE CARBON. PATENTED 4X4 CONSTRUCTION. DCR INTERNAL CABLE ROUTING. XC RACING GEOMETRY. TAPERED HEAD TUBE. PF92 PRESS FIT. DIRECT POST MOUNT DISC BRAKE. DI2 READY
Fork	FOX 32 FACTORY FLOAT 100 FIT CTD REMOTE TAPERED QR15 KASHIMA
Crankset	SHIMANO XTR M9020 26X36T
	SHIMANO XTR M9000 28X38T
	SRAM XX1 30T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	FSA K-FORCE FLAT 700MM
Stem	FSA OS-99 CSI
Shifters	SHIMANO XTR M9000
Brakes	SHIMANO XTR M9000 HYDRAULIC DISC
Rear Derailleur	SHIMANO XTR M9000SGS SHADOW PLUS
Front Derailleur	SHIMANO XTR M9025 34,9MM
Chain	SHIMANO HG900
Wheels	MAVIC CROSSMAX SL
Cassette	SHIMANO XTR M9000 11-40 11-SPEED
Tires	MAXXIS IKON 2.20" 3C-EXC
	MAXXIS ARDENT RACE 2.2" TLR 60 TPI EXO DUAL
Pedals	N/A
Seatpost	FSA K-FORCE LIGHT SB0 27.2X400MM
Saddle	SELLE ITALIA SLR XC GEL FLOW

ALMA



ALMA M10

CODE	D226,D220
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

RED-BLUE
RD

WHITE - BLUE
RF

Frame	ORBEA MONOCOQUE RACE CARBON. PATENTED 4X4 CONSTRUCTION. DCR INTERNAL CABLE ROUTING. XC RACING GEOMETRY. TAPERED HEAD TUBE. PF92 PRESS FIT. DIRECT POST MOUNT DISC BRAKE. DI2 READY
Fork	FOX 32 FACTORY FLOAT 100 FIT CTD REMOTE TAPERED QR15 KASHIMA
Crankset	SHIMANO XT M785 24X38T
	SHIMANO XT M782 22X30X40T
	SHIMANO XTR M9000 26X36T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	FSA SL-K FLAT 700MM
	FSA K-FORCE FLAT KIT
Stem	FSA SL-K
Shifters	SHIMANO XT M780
Brakes	FORMULA R1 HYDRAULIC DISC
	SHIMANO XTR RACE M9000 HYDRAULIC DISC
Rear Derailleur	SHIMANO XTR M986 SHADOW PLUS
Front Derailleur	SHIMANO XT M786 34.9MM
Chain	SHIMANO HG75
Wheels	DT SPLINE X-1700
	MAVIC CROSSMAX SL
Cassette	SHIMANO HG81 11-36 10-SPEED
Tires	MAXXIS IKON 2.20" 3C-EXC
	MAXXIS ARDENT RACE 2.2" TLR 60 TPI EXO DUAL
Pedals	N/A
Seatpost	FSA SL-K SB0 27.2X400MM
Saddle	SELLE ITALIA SL XC FLOW
	SELLE ITALIA SLR XC FLOW

ALMA



ALMA M20

CODE	D225,D219
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

RED
RA

WHITE
RB

Frame	ORBEA MONOCOQUE PERFORMANCE CARBON. PATENTED 4X4 CONSTRUCTION. DCR INTERNAL CABLE ROUTING. XC RACING GEOMETRY. TAPERED HEAD TUBE. PF92 PRESS FIT. DIRECT POST MOUNT DISC BRAKE. DI2 READY
Fork	FOX 32 FACTORY FLOAT 100 FIT CTD REMOTE TAPERED QR15 KASHIMA
Crankset	SHIMANO XT M785 24X38T
	SHIMANO XT M782 22X30X40T
	SHIMANO XTR M9000 26X36T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	RACE FACE RIDE FLAT 710MM
	FSA SLK FLAT KIT
Stem	RACE FACE RIDE
Shifters	SHIMANO SLX M670 I-SPEC
Brakes	SHIMANO SLX M675 HYDRAULIC DISC
	FORMULA R1 HYDRAULIC DISC
Rear Derailleur	SHIMANO XTR M986 SHADOW PLUS
Front Derailleur	SHIMANO SLX M676 34.9MM
Chain	SHIMANO HG75
Wheels	DT SPLINE X-1700
	MAVIC CROSSMAX SL
Cassette	SHIMANO HG81 11-36 10-SPEED
Tires	MAXXIS IKON 2.20" 3C-EXC
	MAXXIS ARDENT RACE 2.2" TLR 60 TPI EXO DUAL
Pedals	N/A
	SHIMANO M520
Seatpost	RACE FACE RIDE 27.2X375MM
Saddle	SELLE ITALIA SL XC FLOW
	SELLE ITALIA SLR XC FLOW



ALMA M30

CODE	D224,D218
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

RED
RA

WHITE
RB

Frame	ORBEA MONOCOQUE PERFORMANCE CARBON. PATENTED 4X4 CONSTRUCTION. DCR INTERNAL CABLE ROUTING. XC RACING GEOMETRY. TAPERED HEAD TUBE. PF92 PRESS FIT. DIRECT POST MOUNT DISC BRAKE. DI2 READY
Fork	FOX 32 FLOAT 100 O/C CTD TAPERED QR15
	FOX 32 FLOAT 100FIT CTD REMOTE TAPERED QR15 K
Crankset	SHIMANO SLX M670 24X38T
	SHIMANO SLX M672 22X30X40T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	RACE FACE RIDE FLAT 710MM
	FSA SLK FLAT KIT
Stem	RACE FACE RIDE
Shifters	SHIMANO SLX M670 I-SPEC
Brakes	SHIMANO SLX M675 HYDRAULIC DISC
	FORMULA R1 HYDRAULIC DISC
Rear Derailleur	SHIMANO XT M786 SHADOW PLUS
Front Derailleur	SHIMANO SLX M676 34.9MM
Chain	SHIMANO HG75
Wheels	MAVIC CROSS ONE
	DT SPLINE X-1700
	MAVIC CROSSMAX SL
Cassette	SHIMANO HG81 11-36 10-SPEED
Tires	MAXXIS IKON 2.20" FB 60 TPI DUAL
	MAXXIS ARDENT RACE 2.2" FB 60 TPI EXO
Pedals	N/A
	SHIMANO M520
Seatpost	RACE FACE RIDE 27.2X375MM
Saddle	SELLE ITALIA SL XC FLOW
	SELLE ITALIA SLR XC FLOW

ALMA



ALMA M50

CODE	D223,D217
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

RED
RA

WHITE
RB

Frame	ORBEA MONOCOQUE PERFORMANCE CARBON. PATENTED 4X4 CONSTRUCTION. DCR INTERNAL CABLE ROUTING. XC RACING GEOMETRY. TAPERED HEAD TUBE. PF92 PRESS FIT. DIRECT POST MOUNT DISC BRAKE. DI2 READY
Fork	FOX 32 FLOAT 100 O/C CTD TAPERED QR15
	FOX 32 FLOAT 100FIT CTD REMOTE TAPERED QR15 K
Crankset	FSA COMET MEGAEXO 24X38
	FSA COMET MEGAEXO 22X30X40T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	RACE FACE RIDE FLAT 710MM
	FSA SLK FLAT KIT
Stem	RACE FACE RIDE
Shifters	SHIMANO DEORE M591
Brakes	FORMULA C1 HYDRAULIC DISC
	SHIMANO SLX M675 HYDRAULIC DISC
Rear Derailleur	SHIMANO XT M786 SHADOW PLUS
Front Derailleur	SHIMANO DEORE M591 34.9MM
Chain	KMC X10
Wheels	MAVIC XM119 DISC
	DT SPLINE X-1700
	TUBELESS MAVIC X-419
	MAVIC CROSSONE
Cassette	SHIMANO HG50 11-36 10-SPEED
Tires	MAXXIS IKON 2.20" FB 60 TPI DUAL
	MAXXIS ARDENT RACE 2.2" FB 60 TPI EXO
Pedals	N/A
	SHIMANO M520
Seatpost	RACE FACE RIDE 27.2X375MM
Saddle	SELLE ROYAL SETA S1
	SELLE ITALIA SL XC FLOW

ALMA



ALMA H10

CODE	D216,D212
SIZES	27'5": S, M, L / 29": M, L, XL

COLORS

WHITE
H1

BLACK-RED
H2

BLACK - BLUE
H3

BLACK - GREEN
H4

Frame	ORBEA HYDROFORMED TRIPLE BUTTED ALUMINUM. PATENTED 4X4 CONSTRUCTION. TAPERED HEAD TUBE. XC RACING GEOMETRY. DIRECT POST MOUNT DISC BRAKE.
Fork	FOX 32 FLOAT 100 O/B CTD TAPERED QR
	FOX 32 FLOAT 100 O/C CTD TAPERED QR15
	FOX 32 FLOAT 100FIT CTD REMOTE TAPERED QR15 K
Crankset	SHIMANO XT M785 24X38T
	SHIMANO XT M782 22X30X40T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	RACE FACE RIDE FLAT 710MM
	FSA SLK FLAT KIT
Stem	RACE FACE RIDE
Shifters	SHIMANO SLX M670 I-SPEC
Brakes	SHIMANO SLX M675 HYDRAULIC DISC
	FORMULA R1 HYDRAULIC DISC
Rear Derailleur	SHIMANO XT M781 SHADOW
Front Derailleur	SHIMANO SLX M676 31.8MM
Chain	SHIMANO HG75
Wheels	MAVIC CROSS ONE
	DT SPLINE X-1700 QR15 + IKON TLR 3C EXO
Cassette	SHIMANO HG81 11-36 10-SPEED
Tires	MAXXIS IKON 2.20" FB 60 TPI DUAL
	MAXXIS ARDENT RACE 2.2" FB 60 TPI EXO
Pedals	N/A
	SHIMANO M520
Seatpost	RACE FACE RIDE 27.2X375MM
Saddle	SELLE ROYAL SETA S1
	SELLE ITALIA SL XC FLOW



ALMA H30

CODE	D215,D211
SIZES	27'5": S, M, L / 29": M, L, XL

COLORS

WHITE
H1

BLACK-RED
H2

BLACK - BLUE
H3

BLACK - GREEN
H4

Frame	ORBEA HYDROFORMED TRIPLE BUTTED ALUMINUM. PATENTED 4X4 CONSTRUCTION. TAPERED HEAD TUBE. XC RACING GEOMETRY. DIRECT POST MOUNT DISC BRAKE.
Fork	FOX 32 FLOAT 100 O/B CTD TAPERED QR
	FOX 32 FLOAT 100 O/C CTD TAPERED QR15
Crankset	SHIMANO M625 24X38T
	SHIMANO M622 22X30X40T
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	ORBEA OC-II FLAT 700MM
	RACE FACE RIDE FLAT KIT
Stem	ORBEA OC-II
Shifters	SHIMANO SLX M670
Brakes	FORMULA C1 HYDRAULIC DISC
	SHIMANO SLX M675 HYDRAULIC DISC
Rear Derailleur	SHIMANO XT M781 SHADOW
Front Derailleur	SHIMANO SLX M676 31.8MM
Chain	KMC X10
Wheels	MAVIC XM119 DISC
	TUBELESS MAVIC X-419 + IKON TLR 3C EXO
	MAVIC CROSSONE
Cassette	SHIMANO HG50 11-36 10-SPEED
Tires	MAXXIS IKON 2.20" FB 60 TPI DUAL
	MAXXIS ARDENT RACE 2.2" FB 60 TPI EXO
Pedals	N/A
	SHIMANO M520
Seatpost	ORBEA OC-II 27.2X400MM
Saddle	SELLE ROYAL SETA S1
	SELLE ITALIA SL XC FLOW

ALMA



ALMA H50

CODE	D214,D210
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

WHITE
H1

BLACK-RED
H2

Frame	ORBEA HYDROFORMED TRIPLE BUTTED ALUMINUM. PATENTED 4X4 CONSTRUCTION. TAPERED HEAD TUBE. TWIN CLAMP SEAT POST COLLAR.
Fork	ROCKSHOX XC32 TK AIR 100 TAPERED QR
Crankset	FSA COMET MEGAEXO 22X30X40
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	ORBEA OC-II FLAT 700MM
Stem	ORBEA OC-II
Shifters	SHIMANO SLX M670
Brakes	FORMULA C1 HYDRAULIC DISC
Rear Derailleur	SHIMANO XT M781 SHADOW
Front Derailleur	SHIMANO DEORE M591 31.8MM
Chain	KMC X-10-SPEED
Wheels	MAVIC XM119 DISC
Cassette	SHIMANO HG50 11-36 10-SPEED
Tires	MAXXIS IKON 2.20" FB 60 TPI DUAL
Pedals	ORBEA STEEL CAGE
Seatpost	ORBEA OC-II 27.2X400MM
Saddle	SELLE ROYAL SETA S1



ALMA H70

CODE	D213,D209
SIZES	27'5": S, M, L / 29": M, L, XL

COLORS

WHITE
H1

BLACK-RED
H2

Frame	ORBEA HYDROFORMED TRIPLE BUTTED ALUMINUM. PATENTED 4X4 CONSTRUCTION. TAPERED HEAD TUBE. XC RACING GEOMETRY. DIRECT POST MOUNT DISC BRAKE.
Fork	ROCKSHOX XC30 TK 100 TAPERED QR
Crankset	FSA COMET MEGAEXO 22X30X40
Headset	FSA 1-1/8 - 1-1/2" INTEGRATED
Handlebar	ORBEA OC-II FLAT 700MM
Stem	ORBEA OC-II
Shifters	SHIMANO DEORE M591
Brakes	SHIMANO M396 HYDRAULIC DISC
Rear Derailleur	SHIMANO DEORE M593 SHADOW
Front Derailleur	SHIMANO DEORE M591 31.8MM
Chain	KMC X10
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG50 11-36 10-SPEED
Tires	MAXXIS IKON 2.20" FB 60 TPI DUAL
Pedals	ORBEA STEEL CAGE
Seatpost	ORBEA OC-II 27.2X400MM
Saddle	SELLE ROYAL SETA S1



SERIOUS FUN.

The MX are technologically innovative bikes that have been designed for terrific fun with the essence of MTB: nice races between friends, off-road trails, long routes, a cyclo sportive once in a while, laughter and nature… MTB at its best!

Name	ORBEA MX
Uso	MTB
Construction	ORBEA ALUMINIUM
Technology	MX COMPACT GEOMETRY/
Orbea values	LIFETIME WARRANTY/ ORBEA DESIGN

MX COMPACT GEOMETRY

Orbea MX Compact Geometry is the key technology behind MX bikes to improve the performance of mountain bikers who, above all, want to have fun!

It very noticeably improves steering control, agility and stability, both uphill and downhill, on the trail or off-road, and provides maximum pedaling performance for bikers who are looking for riding “FUN”.

ERGONOMICS

Small changes but big improvements for great FUN.

Ergonomically speaking, the pedaling position is more ‘natural’, which leads to reduced fatigue and improved bike handling. This is particularly important if you aren’t interested in lifting the World Cup but are always ready for big fun.

AGILITY

You’ll see how easy it is to negotiate areas that seemed difficult before. The bike is agile in both ascents and descents on all terrains.

This frame with pronounced slope provides extra riding agility, which means more fun as well as greater safety and maximum comfort. In our labs, we tested the frame for rigidity, but the long seatpost helps ‘absorb’ vibrations before they reach your back.

STABILITY AND SAFETY

The MX move safely and reliably… The secret? We’ve lowered the biker’s gravity center.

We’ve lowered the gravity center, by slightly lowering the bottom bracket for you to ride in a more stable fashion. The result is remarkable balance and perfect composure in uphill and downhill riding. This is one of the distinguishing features of the MX Compact Geometry.

CONTROL

The MX Compact Geometry takes the bicycle as a whole, not just the frame. With the 70mm stem we’ve got a stable bike on descents because the handlebar stem stands a few millimeters behind the front wheel axis and enables the biker to slide their weight back on technical sections. It’s here that you’ll notice how the control of the bicycle has improved (it can save you a crash or two). However, it’s good in every riding environment, even on flat roads, because this type of bike is remarkably easier to handle. Everything will be in your full control!





SUPER STRONG NECK

This technology, used in the Rallon, the Occam and the MX, is the result of computer-based resistance calculations (or finite element analysis) that help us optimize Orbea's product performance. Modifying the front part of the top tube, we got a stiffer front end. The bike is thus safer in all riding conditions, especially on loose rocks, roots and mud, which are commonplace in mountain biking areas.

4S, ORBEA'S TOTAL TRACTION TECHNOLOGY!

Its four-vertex rear triangle ensures us greater rigidity and transmits all the power, reducing lateral torsion as much as possible (we've calculated it using finite element software, tested it in our laboratory and, in particular, felt it over the terrain).

CONSTRUCTION



27´5”/29”

“Big Wheel” or “Small Wheel”? That’s the question!

At Orbea, we’ve conducted different tests with both our racing team and novice and experienced riders. Results have shown that performance and fun (each independently from one another) clearly improve with both size extremes. The little ones with small wheels, and the larger ones with 29” wheels. In the middle of the size range, performance, stability and comfort are generally greater with 29” wheels, but some riders have shown a preference for the more sensitive 27´5” wheels, so you’ll find both options in the M and L sizes. This represents a greater manufacturing effort that few brands would take on; but for us, the important thing is to offer what’s best for each rider.

FUSIBLE DERAILLEUR DROP-OUT

A replaceable rear derailleur hanger can “save” the life of your frame.

A replaceable derailleur hanger is essential if it gets hit hard (as the result of a fall, during transport, etc.). The part gets damaged, but it’s a simple matter of replacing it (otherwise, the damaged part could be the frame, in which case the repairs will always be a lot trickier).

So this factor may prove more important than it would seem!



HEXATUBING

The polyhedral shape of the tubes improves the strength and rigidity properties of the entire frame.

The development of tubes with edges on Rallon, Occam and MX models provides better performance in terms of overall frame durability, rigidity and strength. The feeling on the bike is more “compact” and solid.

INTERNAL CABLE ROUTING

Your MX is always ready! In addition to its clean esthetic line, the ICR system lengthens (x10) the gear change system, making it smoother.

The gear change cables need the most maintenance of anything on a conventional mountain bike. If you take a little longer ride and it’s raining or there’s mud (or even if you just wash your bike with pressurized water), you’ll probably have to replace the cables and gear covers after only a few rides, since they get dirty and no longer operate smoothly. When they stop operating smoothly, we have to use more force on them, which results in wear and tear on the mechanical systems and causes them to lose precision. Orbea’s complete ICR cable system prevents all this, and your MX will always be ready!
(When the time comes when you do need to replace the cables, you’ll be surprised how easy this is with the ICR system. Much easier than on a conventional system!)



CONSTRUCTION



POST-MOUNT DISC STANDARDS

Post-mount disk brakes are the new market standard.

Because of their easy, precise adjustment, post-mount disk brakes have been gaining ground and are the most common standard in the market (having surpassed the IS system).

EASY RACK

Decide on the spur of the moment if you want to carry weight.

If you decide to mount a pack rack, it's important to point out that this frame is designed for easy mounting, with large, quality bolts (that are still discreet, matching the overall look of the bike).

We recommend you use Orbea's pack rack as the perfect esthetic and functional match for this model.



GEO CHART / MX

GEOMETRY

SIZE	S – 27.5”	M – 27.5”	L – 27.5”	M – 29”	L – 29”	XL – 29”
1 – Seat Tube (C – T)	388	430	460	430	470	510
2 – Top Tube (EFF)	548	575	597	578	587	616
3 – Head Tube	100	110	120	110	115	130
4 – Chainstay	440	440	440	450	450	450
5 – BB Height	305	305	305	305	305	305
6 – BB Drop	45	45	45	65	65	65
7 – Wheelbase	1054	1076	1099	1085	1095	1124
8 – Head Angle	64º	70º	70º	70º	70º	70º
9 – Seat Angle	73º	73º	73º	73º	73º	73º
10 – Standover	773	798	810	813	834	852
11 – Reach	370	394	413	386	394	418
12 – Stack	583	593	602	628	633	647
13 – Fork Length	490	490	490	506	506	506

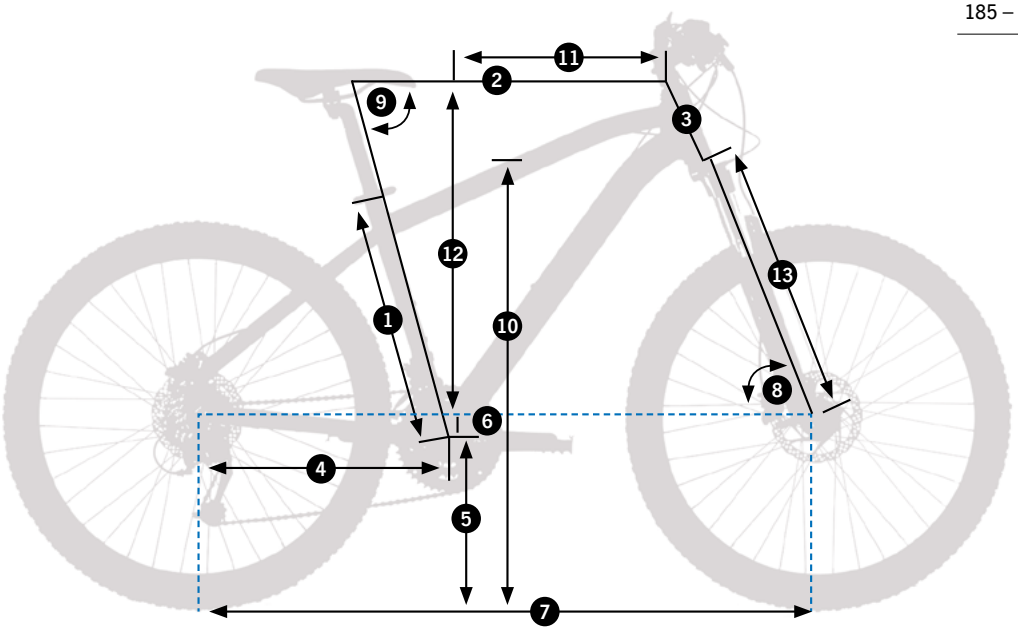
ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S – 27.5”	170	70	680
M – 27.5” – M – 29”	170	70	720
L – 27.5” – L – 29”	175	70	680
XL – 29”	175	70	720

M – 27 Handlebar 680mm and L – 29” Handlebar 720mm.

SIZE

HEIGHT (cm)	SIZE
155 – 170	S – 27.5”
165 – 180	M – 27.5”
178 – 190	L – 27.5”
165 – 180	M – 29”
178 – 190	L – 29”
185 – 198	XL – 29”





MX 10

CODE	D204,D208
SIZES	27'5": S, M, L / 29": M, L, XL

COLORS

WHITE-SILVER
MA

BLACK-BLUE
MB

ANTHRACITE - RED
MD

GREEN - BLACK
MF

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	ROCKSHOX XC30 TK 100 QR
Crankset	FSA ALPHA DRIVE 22X30X40
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 680MM
Stem	ORBEA OC-II
Shifters	SHIMANO DEORE M591
Brakes	SHIMANO M355 HYDRAULIC DISC
Rear Derailleur	SHIMANO DEORE M593 SHADOW
Front Derailleur	SHIMANO DEORE M591 31.8MM
Chain	KMC X10
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG50 11-36 10-SPEED
Tires	KENDA K922 2,10"
Pedals	VP-536 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 1353



MX 20

CODE	D203,D207
SIZES	27'5": S, M, L / 29": M, L, XL

COLORS

WHITE-SILVER
MA

BLACK-BLUE
MB

ANTHRACITE - RED
MD

GREEN - BLACK
MF

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR XCR LO-R COIL 100MM QR
Crankset	FSA ALPHA DRIVE 22X30X40
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 680MM
Stem	ORBEA OC-II
Shifters	SHIMANO DEORE M591
Brakes	SHIMANO M355 HYDRAULIC DISC
Rear Derailleur	SHIMANO DEORE M593 SHADOW
Front Derailleur	SHIMANO DEORE M591 31.8MM
Chain	KMC X10
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG50 11-36 10-SPEED
Tires	KENDA K922 2,10"
Pedals	VP-536 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 1353



MX 30

CODE	D202,D206
SIZES	27'5": S, M, L / 29": M, L, XL

COLORS

WHITE-SILVER
MA

BLACK-BLUE
MB

ANTHRACITE - RED
MD

GREEN - BLACK
MF

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR XCR LO-R COIL 100MM QR
Crankset	SHIMANO M371 22X32X44T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 680MM
Stem	ORBEA OC-II
Shifters	SHIMANO ACERA M390
Brakes	SHIMANO M355 HYDRAULIC DISC
Rear Derailleur	SHIMANO ACERA M390
Front Derailleur	SHIMANO ALTUS M371 31,8MM
Chain	SHIMANO HG53
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG300 12-36 9-SPEED
Tires	KENDA K922 2,10"
Pedals	VP-536 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 1353

MX



MX 40

CODE	D201,D205
SIZES	27'5": S, M, L / 29": M, L, XL

COLORS

WHITE-SILVER
MA

BLACK-BLUE
MB

ANTHRACITE - RED
MD

GREEN - BLACK
MF

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR XCT HLO 100MM QR
Crankset	SHIMANO M171 24X34X42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 680MM
Stem	ORBEA OC-II
Shifters	SHIMANO M310
Brakes	SHIMANO M355 HYDRAULIC DISC
Rear Derailleur	SHIMANO ACERA M390
Front Derailleur	SHIMANO ALTUS M313 31,8MM
Chain	KMC Z8
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG200 12-32 8-SPEED
Tires	KENDA K922 2,10"
Pedals	VP-536 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 1353





ALLUSE2015


ORBEA

ALL-USE SPORT, EQUIPPED FOR PURE MOUNTAIN BIKING.

You need to be well equipped for mountain biking. A super-oversized mountain bike handlebar and grips you can hang on to for greater control, a sports seat, tires with good grip, double-wall rims and sport pedals. All the assurance you need to head out to the mountain, and there's even a model with disk brakes. With All-Use SPORT, you can enjoy pure mountain biking.

Don't forget your helmet!

Name	ORBEA ALL USE SPORT
Use	MTB
Construction	ORBEA ALU
Technology	EASY RIDE GEOMETRY/ SLOPING, ENTRANCE/ INTERNAL CABLE ROUTING/ 27/29/ FUSIBLE DERAILLEUR DROP-OUT/ EASY RACK
Orbea values	LIFETIME WARRANTY/ ORBEA DESIGN

FEATURES



27´5”/29”

Choose your wheel! It’s easy. We’ll give you some hints!

At Orbea, we’ve conducted riding tests with different users, from beginners to professionals, and the results show that for size S, users do better with 27´5” wheels. On the other hand, large sizes do better with 29” wheels. For the sizes in the middle, those who are mainly going to use their bikes for sports usually prefer the stability and performance of 29” wheels, while those who are going to do a lot of riding in the city are normally better off with 27´5” wheels, which give them greater agility at low speeds.

EASY RIDE GEOMETRY

The ergonomics of All-Use bikes provide improved control, thanks to a lower center of gravity, a more natural riding position and maneuverability that is enhanced by the frame design.

It’s while you’re riding that you’ll be surprised by how comfortable the All-Use bike really is and how easy it is to travel over any terrain and in any situation.

FUSIBLE DERAILLEUR DROPOUT

A replaceable rear derailleur hanger can “save” the life of your frame.

A replaceable derailleur hanger is essential if it gets hit hard (as the result of a fall, during transport, etc.). The part gets damaged, but it’s a simple matter of replacing it (otherwise, the damaged part could be the frame, in which case the repairs will always be a lot trickier).

So this factor may prove more important than it would seem!





SPORT PACK

You need to be well equipped for mountain biking. A super-oversized mountain bike handlebar and grips you can hang on to for greater control, a sports seat, tires with good grip, double-wall rims and sport pedals. All the assurance you need to head out to the mountain, and there’s even a model with disk brakes. With All-Use SPORT, you can enjoy pure mountain biking. Don’t forget your helmet!

EASY RACK

Decide on the spur of the moment if you want to carry weight.

If you decide to mount a pack rack, it’s important to point out that this frame is designed for easy mounting, with large, quality bolts (that are still discreet, matching the overall look of the bike).

We recommend you use Orbea’s pack rack as the perfect esthetic and functional match for this model.



FEATURES





INTERNAL CABLE ROUTING

The gear change cables need the most maintenance of anything on a conventional mountain bike. If you take a little longer ride and it's raining or there's mud (or even if you just wash your bike with pressurized water), you'll probably have to replace the cables and gear covers after only a few rides, since they get dirty and no longer operate smoothly. When they stop operating smoothly, we have to use more force on them, which results in wear and tear on the mechanical systems and causes them to lose precision. Orbea's complete ICR cable system prevents all this, and your All-Use will always be ready!

(When the time comes when you do need to replace the cables, you'll be surprised how easy this is with the ICR system. Much easier than on a conventional system!)

GEO CHART / SPORT

GEOMETRY

SIZE	S – 27.5”	M – 27.5”	L – 27.5”	M – 29”	L – 29”	XL – 29”
1 – Seat Tube (C – T)	402	430	460	430	465	500
2 – Top Tube (EFF)	534	575	590	576	597	616
3 – Head Tube	120	130	140	120	130	145
4 – Chainstay	440	440	440	450	450	450
5 – BB Height	296	296	296	303	303	303
6 – BB Drop	50	50	50	65	65	65
7 – Wheelbase	1040	1076	1091	1077	1099	1119
8 – Head Angle	69,5º	70º	70º	70,5º	70,5º	70,5º
9 – Seat Angle	73º	73º	73º	74º	74º	74º
10 – Standover	786	803	821	813	833	885
11 – Reach	349	386	398	400	418	433
12 – Stack	606	618	627	614	623	637
13 – Fork Length	490	490	490	475	475	475

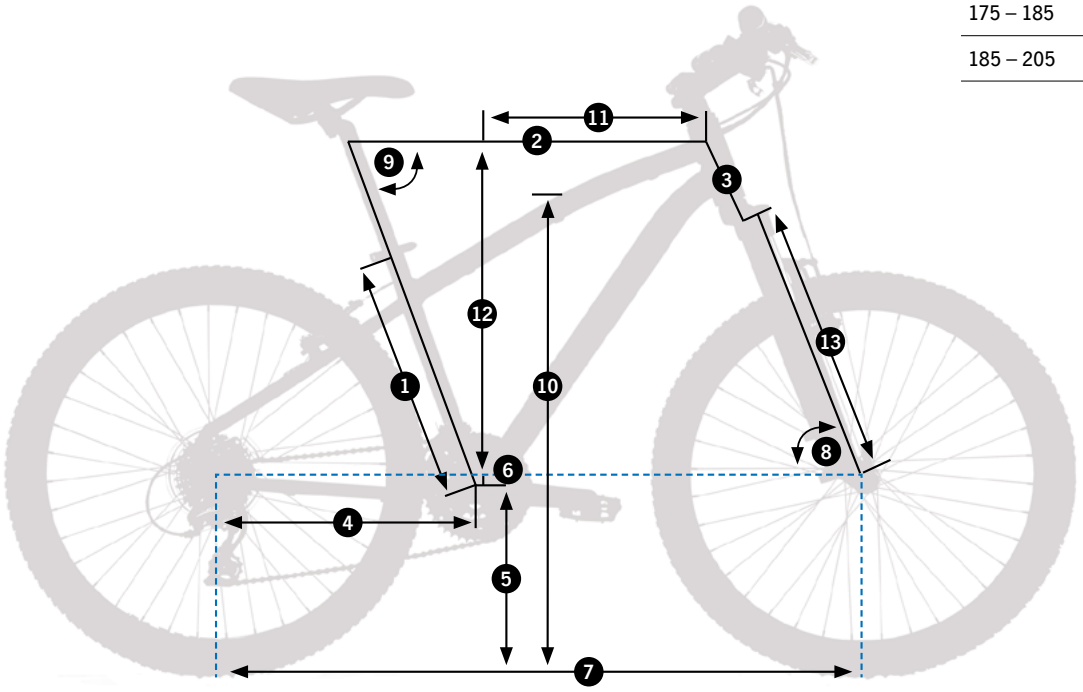
ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S – 27.5”	170	70	640
M – 27.5” – M – 29”	170	70	640
L – 27.5” – L – 29”	175	70	640
XL – 29”	175	70	680

Sport 10 Sizes M – 29” y L – 29” Handlebar 680mm.

SIZE

HEIGHT (cm)	SIZE
150 – 165	S – 27.5”
165 – 175	M – 27.5”
175 – 185	L – 27.5”
165 – 175	M – 29”
175 – 185	L – 29”
185 – 205	XL – 29”



all use sport



SPORT 10

CODE	D403,D409
SIZES	27'5": S, M, L / 29": M, L, XL

COLORS

BLACK - BLUE
Q1

BLACK-WHITE
Q2

WHITE - RED
Q3

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR XCT LO 80MM QR
Crankset	SHIMANO M171 24X34X42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 640MM
Stem	ORBEA OC-I
Shifters	SHIMANO STEF 52
Brakes	TEKTRO MONOBLOCK MECHANICAL DISC
Rear Derailleur	SHIMANO ALTUS M310
Front Derailleur	SHIMANO TX50 31.8MM
Chain	KMC Z8
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG200 12-32 8-SPEED
Tires	KENDA K922 2,10"
Pedals	VP-536 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 3315

all use sport



SPORT 20

CODE	D402,D408
SIZES	27'5": S, M, L / 29": M, L, XL

COLORS

BLACK - BLUE
Q1

BLACK-WHITE
Q2

WHITE - RED
Q3

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR M3030 75MM DISC QR
Crankset	SHIMANO M131 24X34X42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 640MM
Stem	ORBEA OC-I
Shifters	SHIMANO STEF 51
Brakes	TEKTRO MONOBLOCK MECHANICAL DISC
Rear Derailleur	SHIMANO TX35
Front Derailleur	SHIMANO TX50 31.8MM
Chain	KMC Z50
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG20 12-32 7-SPEED
Tires	KENDA K922 2,10"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 3315



SPORT 30

CODE	D401,D407
SIZES	27'5": S, M, L / 29": M, L, XL

COLORS

BLACK - BLUE
Q1

BLACK-WHITE
Q2

WHITE - RED
Q3

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR M3030 75MM V-BRAKE QR
Crankset	SHIMANO M131 24X34X42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 640MM
Stem	ORBEA OC-I
Shifters	SHIMANO STEF 51
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Front Derailleur	SHIMANO TX50 31.8MM
Chain	KMC Z50
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA K922 2,10"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 3315

all use sport



SPORT ENTRANCE 10

CODE	D406,D412
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

WHITE - RED
Q3

ANTHRACITE-PINK
Q4

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR XCT LO 80MM QR
Crankset	SHIMANO M171 24X34X42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 640MM
Stem	ORBEA OC-I
Shifters	SHIMANO STEF 52
Brakes	TEKTRO MONOBLOCK MECHANICAL DISC
Rear Derailleur	SHIMANO ALTUS M310
Front Derailleur	SHIMANO TX50 31.8MM
Chain	KMC Z8
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG200 12-32 8-SPEED
Tires	KENDA K922 2,10"
Pedals	VP-536 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 3315

all use sport



SPORT ENTRANCE 20

CODE	D405,D411
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

WHITE - RED
Q3

ANTHRACITE-PINK
Q4

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR M3030 75MM DISC QR
Crankset	SHIMANO M131 24X34X42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 640MM
Stem	ORBEA OC-I
Shifters	SHIMANO STEF 51
Brakes	TEKTRO MONOBLOCK MECHANICAL DISC
Rear Derailleur	SHIMANO TX35
Front Derailleur	SHIMANO TX50 31.8MM
Chain	KMC Z50
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG20 12-32 7-SPEED
Tires	KENDA K922 2,10"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 3315

all use sport



SPORT ENTRANCE 30

CODE	D404,D410
SIZES	27'5": S, M, L / 29": M, L, XL
COLORS	

WHITE - RED
Q3

ANTHRACITE-PINK
Q4

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR M3030 75MM V-BRAKE QR
Crankset	SHIMANO M131 24X34X42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 640MM
Stem	ORBEA OC-I
Shifters	SHIMANO STEF 51
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Front Derailleur	SHIMANO TX50 31.8MM
Chain	KMC Z50
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA K922 2,10"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 3315





THIS IS ONE OF THE MOST COMFORTABLE AND CAPABLE ALL-USE BIKES.

ALL-USE COMFORT = Versatility with Comfort.

All-Use Comfort bikes are designed and intended for riding comfort. That's why they have a higher handlebar and adjustable stem, so you can adjust the bike to your natural position. It also has details like ergonomic grips, nice pedals, and of course, a very comfortable seat.

Top models also include seat and front wheel suspension.

All-Use Comfort bikes are mainly that… Comfortable!

Name	ORBEA ALL USE SPORT
Use	MTB
Construction	ORBEA ALU
Technology	EASY RIDE GEOMETRY/ SLOPING, ENTRANCE/ INTERNAL CABLE ROUTING/ 26/28/ FUSIBLE DERAILLEUR DROP-OUT/ EASY RACK/ COMFORT PACK
Orbea values	LIFETIME WARRANTY/ ORBEA DESIGN

FEATURES



27´5” AND 28”

Choose your wheel! It’s easy. We’ll give you some hints!

At Orbea, we’ve conducted riding tests with different users, from beginners to professionals, and the results show that for size S, users do better with 27´5” wheels. On the other hand, large sizes do better with 28” wheels. For the sizes in the middle, those who are going to ride a lot of routes or rolling stretches (a lot of travel in the bike lane, long distances, etc.) usually prefer the tread of 28” wheels, while those who are going to do a lot of riding in the city are normally better off with 27´5” wheels, which give them greater agility at low speeds.

EASY RIDE GEOMETRY

The ergonomics of All-Use bikes provide improved control, thanks to a lower center of gravity, a more natural riding position and maneuverability that is enhanced by the frame design.

It’s while you’re riding that you’ll be surprised by how comfortable the All-Use bike really is and how easy it is to travel over any terrain and in any situation.

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A replaceable rear derailleur hanger can “save” the life of your frame.

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FEATURES



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(When the time comes when you do need to replace the cables, you'll be surprised how easy this is with the ICR system. Much easier than on a conventional system!)

GEO CHART / COMFORT

GEOMETRY

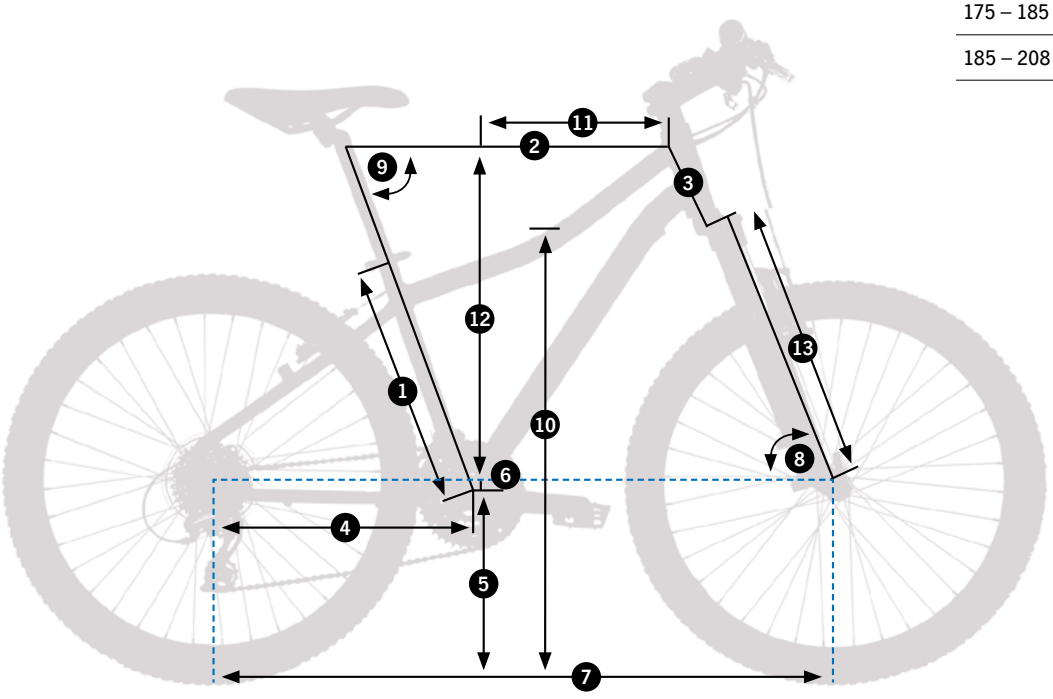
SIZE	S – 27.5”	M – 27.5”	L – 27.5”	M – 28”	L – 28”	XL – 28”
1 – Seat Tube (C – T)	402	430	460	430	465	500
2 – Top Tube (EFF)	534	575	590	576	597	616
3 – Head Tube	120	130	140	120	130	145
4 – Chainstay	440	440	440	450	450	450
5 – BB Height	296	296	296	303	303	303
6 – BB Drop	50	50	50	65	65	65
7 – Wheelbase	1040	1076	1091	1077	1099	1119
8 – Head Angle	69,5º	70º	70º	70,5º	70,5º	70,5º
9 – Seat Angle	73º	73º	73º	74º	74º	74º
10 – Standover	786	803	821	813	833	885
11 – Reach	349	386	398	400	418	433
12 – Stack	606	618	627	614	623	637
13 – Fork Length	490	490	490	475	475	475

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S – 27.5”	170	90	640
M – 27.5” – M – 28”	170	90	640
L – 27.5” – L – 28”	170	90	640
XL – 28”	170	90	640

SIZE

HEIGHT (cm)	SIZE
150 – 160	S – 27.5”
165 – 180	M – 27.5”
177 – 200	L – 27.5”
165 – 175	M – 28”
175 – 185	L – 28”
185 – 208	XL – 28”





COMFORT 10

CODE	D415,D424
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Quick stand	ORBEA CITY
Fork	SR SUNTOUR M3030 75MM V-BRAKE QR
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO STEF 52
Brakes	SHIMANO T4000 V-BRAKE
Rear Derailleur	SHIMANO ALTUS M310
Front Derailleur	SHIMANO TX51 31.8MM
Chain	KMC Z8
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO HG200 12-32 8-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 20

CODE	D414,D423
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Quick stand	ORBEA CITY
Fork	ORBEA HI-TEN CROSS
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO STEF 51
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Front Derailleur	SHIMANO TX51 31.8MM
Chain	KMC Z50
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG20 12-32 7-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 30

CODE	D413,D422
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Quick stand	ORBEA CITY
Fork	ORBEA HI-TEN CROSS
Crankset	PIONEER PROWHEEL 42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO M310
Brake levers	ORBEA TREKKING ALU
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Chain	KMC Z50
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 10 ENTRANCE

CODE	D418,D427
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Quick stand	ORBEA CITY
Fork	SR SUNTOUR M3030 75MM V-BRAKE QR
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO STEF 52
Brakes	SHIMANO BR-T4000 V-BRAKE
Rear Derailleur	SHIMANO ALTUS M310
Front Derailleur	SHIMANO TX51
Chain	KMC Z8
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO HG200 12-32 8-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 20 ENTRANCE

CODE	D417,D426
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Quick stand	ORBEA CITY
Fork	ORBEA HI-TEN CROSS
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO STEF 51
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Front Derailleur	SHIMANO TX51
Chain	KMC Z50
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG20 12-32 7-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 30 ENTRANCE

CODE	D416,D425
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Quick stand	ORBEA CITY
Fork	ORBEA HI-TEN CROSS
Crankset	PIONEER PROWHEEL 42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO M310
Brake levers	ORBEA TREKKING ALU
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Chain	KMC Z50
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 10 OPEN

CODE	D421,D430
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Quick stand	ORBEA CITY
Fork	SR SUNTOUR M3030 75MM V-BRAKE QR
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO STEF 52
Brakes	SHIMANO BR-T4000 V-BRAKE
Rear Derailleur	SHIMANO ALTUS M310
Front Derailleur	SHIMANO TX51
Chain	KMC Z8
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO HG200 12-32 8-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 20 OPEN

CODE	D420,D429
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Quick stand	ORBEA CITY
Fork	ORBEA HI-TEN CROSS
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO STEF 51
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Front Derailleur	SHIMANO TX51
Chain	KMC Z50 7-SPEED
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG20 12-32 7-SPEED
Tires	KENDA K935 27,5X1,65
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 30 OPEN

CODE	D419,D428
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Quick stand	ORBEA CITY
Fork	ORBEA HI-TEN CROSS
Crankset	PIONEER PROWHEEL 42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO M310
Brake levers	ORBEA TREKKING ALU
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Chain	KMC Z50 7-SPEED
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA K193 27,5X1,35
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD


90



TREKKING2015

comfort equiped

STANDARD EQUIPPED!

The overall concept and the tiniest detail in it are designed for great comfort and performance. The riding position is natural and adjustable, the suspension facilitates riding comfort and with the 27 gears the cyclist can regulate pedaling effort and enjoy all the innovations of an All-Use bike. As it's a 28" bike, it rolls very well and feels comfortable on broad terrain and relatively long distance rides. If you're looking for a versatile machine, comfort and a touch of off-road, this is the perfect bicycle for you.

With the Comfort series, you have the option of adding standard equipment. Some models come with pack rack + mudguard, while others come with front and rear lights as standard equipment. Mudguards are made from flexible plastic for maximum durability. We've designed the rack with efficiency and strength in mind. It's compatible with the most common standards on the market, and includes reflectors (side and rear). Models with optional lights are powered by a modern dynamo built into the wheel hub. These have a compact design and are built into your Orbea All-Use bike. Enjoy riding at night, too!



GEO CHART / COMFORT

GEOMETRY

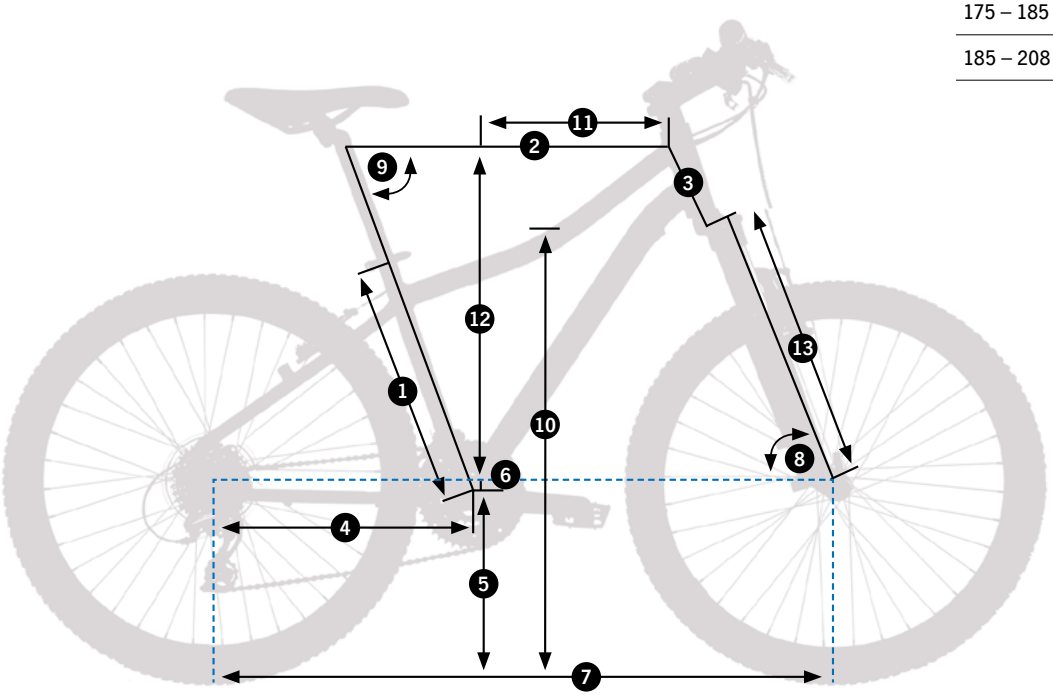
SIZE	S – 27.5”	M – 27.5”	L – 27.5”	M – 28”	L – 28”	XL – 28”
1 – Seat Tube (C – T)	402	430	460	430	465	500
2 – Top Tube (EFF)	534	575	590	576	597	616
3 – Head Tube	120	130	140	120	130	145
4 – Chainstay	440	440	440	450	450	450
5 – BB Height	296	296	296	303	303	303
6 – BB Drop	50	50	50	65	65	65
7 – Wheelbase	1040	1076	1091	1077	1099	1119
8 – Head Angle	69,5º	70º	70º	70,5º	70,5º	70,5º
9 – Seat Angle	73º	73º	73º	74º	74º	74º
10 – Standover	786	803	821	813	833	885
11 – Reach	349	386	398	400	418	433
12 – Stack	606	618	627	614	623	637
13 – Fork Length	490	490	490	475	475	475

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S – 27.5”	170	90	640
M – 27.5” – M – 28”	170	90	640
L – 27.5” – L – 28”	170	90	640
XL – 28”	170	90	640

SIZE

HEIGHT (cm)	SIZE
150 – 160	S – 27.5”
165 – 180	M – 27.5”
177 – 200	L – 27.5”
165 – 175	M – 28”
175 – 185	L – 28”
185 – 208	XL – 28”





COMFORT 10 EQ.

CODE	D442
SIZES	28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Rear carrier	ORBEA CARRIER
Mudguard	ORBEA BLACK
Front light	MICRO FF AUTO
Rear light	BASTA RIFF
Dynamo	SHIMANO 3N31 DYNAMO
Quick stand	ORBEA CITY
Fork	SR SUNTOUR NEX 4110
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO STEF 52
Brakes	SHIMANO T4000 V-BRAKE
Rear Derailleur	SHIMANO ALTUS M310
Front Derailleur	SHIMANO TX51 31.8MM
Chain	KMC Z8
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO HG200 12-32 8-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 20 EQ.

CODE	D432,D441
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Rear carrier	ORBEA CARRIER
Mudguard	ORBEA BLACK
Quick stand	ORBEA CITY
Fork	ORBEA HI-TEN CROSS
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO STEF 51
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Front Derailleur	SHIMANO TX51 31.8MM
Chain	KMC Z50
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO HG20 12-32 7-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 30 EQ.

CODE	D431,D440
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Rear carrier	ORBEA CARRIER
Mudguard	ORBEA BLACK
Quick stand	ORBEA CITY
Fork	ORBEA HI-TEN CROSS
Crankset	PIONEER PROWHEEL 42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO M310
Brake levers	ORBEA TREKKING ALU
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Chain	KMC Z50
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 10 ENTRANCE EQ.

CODE	D445
SIZES	28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Rear carrier	ORBEA CARRIER
Mudguard	ORBEA BLACK
Front light	MICRO FF AUTO
Rear light	BASTA RIFF
Dynamo	SHIMANO 3N31 DYNAMO
Quick stand	ORBEA CITY
Fork	SR SUNTOUR NEX 4110
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO STEF 52
Brakes	SHIMANO T4000 V-BRAKE
Rear Derailleur	SHIMANO ALTUS M310
Front Derailleur	SHIMANO TX51 31.8MM
Chain	KMC Z8
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO HG200 12-32 8-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 20 ENTRANCE EQ.

CODE	D435,D444
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Rear carrier	ORBEA CARRIER
Mudguard	ORBEA BLACK
Quick stand	ORBEA CITY
Fork	ORBEA HI-TEN CROSS
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO STEF 51
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Front Derailleur	SHIMANO TX51 31.8MM
Chain	KMC Z50
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO HG20 12-32 7-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 30 ENTRANCE EQ.

CODE	D434,D443
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Rear carrier	ORBEA CARRIER
Mudguard	ORBEA BLACK
Quick stand	ORBEA CITY
Fork	ORBEA HI-TEN CROSS
Crankset	PIONEER PROWHEEL 42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO M310
Brake levers	ORBEA TREKKING ALU
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Chain	KMC Z50
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 10 OPEN EQ.

CODE	D448
SIZES	28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Rear carrier	ORBEA CARRIER
Mudguard	ORBEA BLACK
Front light	MICRO FF AUTO
Rear light	BASTA RIFF
Dynamo	SHIMANO 3N31 DYNAMO
Quick stand	ORBEA CITY
Fork	SR SUNTOUR NEX 4110
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO STEF 52
Brakes	SHIMANO T4000 V-BRAKE
Rear Derailleur	SHIMANO ALTUS M310
Front Derailleur	SHIMANO TX51 31.8MM
Chain	KMC Z8
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO HG200 12-32 8-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 20 OPEN EQ.

CODE	D438,D447
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Rear carrier	ORBEA CARRIER
Mudguard	ORBEA BLACK
Quick stand	ORBEA CITY
Fork	ORBEA HI-TEN CROSS
Crankset	SHIMANO M131 28X38X48T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO STEF 51
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Front Derailleur	SHIMANO TX51 31.8MM
Chain	KMC Z50
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO HG20 12-32 7-SPEED
Tires	KENDA K935 1,65"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



COMFORT 30 OPEN EQ.

CODE	D437,D446
SIZES	27": S, M, L / 28": M, L, XL

COLORS

BLACK-ANTHRACITE
Q5

ANTHRACITE-SILVER
Q6

WHITE-SILVER
Q7

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Rear carrier	ORBEA CARRIER
Mudguard	ORBEA BLACK
Quick stand	ORBEA CITY
Fork	ORBEA HI-TEN CROSS
Crankset	PIONEER PROWHEEL 42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA CITY RISER ALU 640MM
Stem	ORBEA ADJUSTABLE ALU
Shifters	SHIMANO M310
Brake levers	ORBEA TREKKING ALU
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Chain	KMC Z50
Wheels	ORBEA SCORPION DW
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA K193 1,35"
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	SELLE ROYAL WAVE OFF-ROAD



URBAN2015


Red Bull
SHOCK
FREEGUN
RUDE



THE STREETS, MY KINGDOM.

Watch Viki Gomez, and you'll see what this BMX bike is all about. His flatland is one part magic and one part ingrained technique, and the Rude is like each of Viki's rides – unique. And that's the beauty of it and the balance of its design. The Rude is the result of the idea that one bike could be built for flatland, street, and park riding. Viki sketched it, and we built it. It comes ready for action no matter which discipline you prefer - the Rude comes with four footpegs for flatland action, and they can be easily removed for street or ramps. Now your imagination is the only limit.

HISTORY



Summer 1991, Viki Gomez jumps on his old Orbea Campeón for the first time in his life. Sixteen kilos of bullet proof steel. Things were easier back then: one bike, a back yard and an entire world of possibilities to peel off elbows and knees.

Years later the tricks would come, the easy ones first and the legendary ones later; and together with them the new materials, the specialization of the sport, the competition. Viki picked Flatland and down this alley he would reach the glory: the World Championship.

That's how we got to 2012. An heterogeneous BMX community is scattered in a sophisticated universe of BMX disciplines: Street, Park, Vert, Dirt, Flat, etc. They'all share one shared passion though: the Freestyle. Meanwhile one unanswered question starts to become increasingly disturbing in Viki's mind: Would it be possible to build a bike to combine several BMX disciplines in a single one?

Viki sketched an answer to this question and approached Orbea with a novel and unique proposal, one hybrid BMX bike that would allow the rider to enjoy the magic and balance of Flatland, the adrenaline of Street and the technique of Park. Could we build it? Challenge accepted.

Our engineers teamed up with Street, Park and Flat riders and hand in hand they shaped the first prototypes. According to Orbea quality standars, frames were tested in the lab and in the field to reach the optimal stiffness/weight ratio.

Fourteen months and a docen prototypes beaten to death later, our efforts found reward. Orbea's "enfant terrible" is finally ready to run free on the streets. Please welcome the new Orbea RUDE.

FEATURES



VIKI'S LEGACY FRAME

Orbea accounts for more than 90 years of history building life-lasting frames.

The aquired knowledge combined with the latest technology on Japanese Chromoly manufacturing and the creative design by Viki Gomez has resulted into a unique and reliable BMX frame.

SLOOP-A-HOOP

If you are going to try flatland tricks like "Boomerang" or a "Fire Hydrant" you want to have clearance between the seat and the handlebar.
In bike geometry this translates into a great slooping (= short Seat Tube) and for the RUDE we decided to name this SLOOP-A-HOOP.

TTT: THIN TOP TUBE

As opposed to traditional frames we decided to use the same tubing for the TT and the ST, Ø28.6mm double-butted tubing. A thin top tube enables the rider to perform specific flatland tricks while ensuring a good performance on street or park rides.

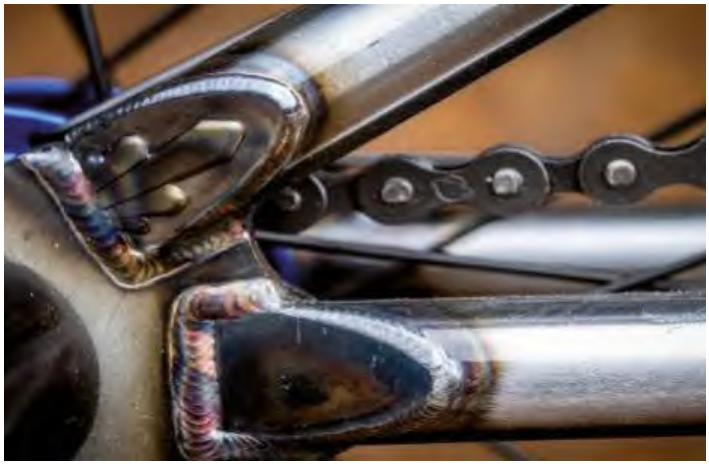


SCS: SHORT CHAIN STAYS

Short CSs make the bike easier to lift. Different size riders street-tested our protoypes until we found the optimal compromise.

The resulting CS lenghts are:
S size (19,6"): 12,7"
M size (20,75"): 13,2
L size (21"): 13,2





P4A: PEGS FOR ALL

By defeaut, we serve the Orbea Rude with four pegs so you don't have to buy an extra pair to try Flatland tricks.

RUDE CUSTOM DROPOUTS

Early feedback from our riders showed us the importance of smooth-integrated dropouts. RUDE's custom dropouts enable safe and smooth landing on the pegs during tricks.

FEATURES

CLEAR HEADSET

Viki's Legacy Frame features an integrated headset. This, together with the removable cable guides result into a neat HT.



VIKI'S LEGACY BAR

Viki handcrafted RUDE's handlebar featuring a 8,25" crosspiece that enhances the aesthetics and gives the desirable strengh levels for intense use. Max. length: 28,5".



GEO CHART / RUDE

GEOMETRY

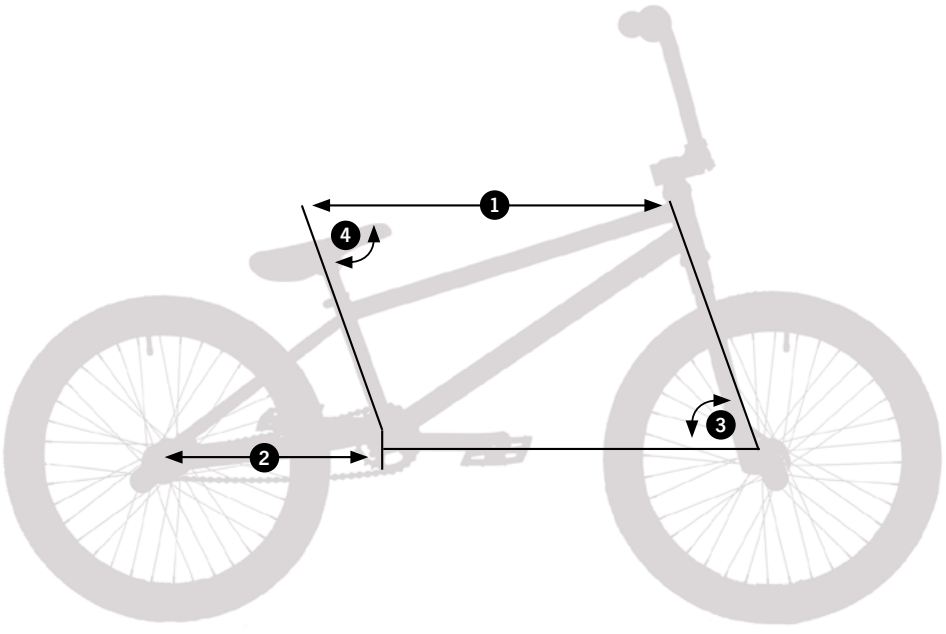
SIZE	S	M	L
2 – Top Tube (EFF)	497.84	527.05	533.4
4 – Chainstay	322.58	335.28	335.28
8 – Head Angle	75	75	75
9 – Seat Angle	78.1	77.9	77.9

ERGONOMICS

	RISE	WIDTH	SWEEP
	8,35”	28,8”	12

SIZES

HEIGHT (cm)	SIZE
<165	S
165 – 175	M
>175	L





RUDE 10

CODE	D016
SIZES	S, M, L
COLORS	

BLACK
M2

Frame	VIKI'S LEGACY FRAME 100% JAPANESE CRMO
Fork	1 PC STEERER, 100% CRMO
CW	RUDE PRO 25T FREESTYLER ALLOY CNC
Headset	30X41.8 INTEGRATED
Handlebar	VIKI'S LEGACY BAR 100% CRMO
Stem	RUDE PRO FRONT-LOAD
Chain	KMC 410H FREESTYLE
Driver	9T
Tyres	KENDA KONTACT 2.25
Post	PIVOTAL
Seat	RUDE SOFTY MID-PADDED
Pedals	NYLON CK745
Cranks	3 PCS SLIM PRO HEAT-TREATED CRMO
BB	MID-BB SEALED 68MM
Grips	VELO MIX KRATON
Front hub	QUANTA 3/8" HOLLOWTEC SEALED
Rear hub	QUANTA HOLLOWTEC SEALED
Rims	BX32 DOUBLE-WALL FREESTYLE
Clamp	INTEGRATED
Pegs	4X BLACK ALLOY 110MM



RUDE 20

CODE	D015
SIZES	S, M, L
COLORS	

RAW
M1

Frame	VIKI'S LEGACY FRAME 100% JAPANESE CRMO
Fork	2 PC CRMO STEERER, HI.TEN BLADES
CW	25T ALLOY CNC BLUE
Headset	30X41.8 INTEGRATED
Handlebar	VIKI'S LEGACY BAR HI-TEN
Stem	PROMAX SOLID FRONT-LOAD
Chain	KMC 410H FREESTYLE
Driver	9T
Tyres	KENDA KOVERT 2.0
Post	PIVOTAL
Seat	RUDE NAKED
Pedals	NYLON CK745 ICY
Cranks	3 PCS CRMO
BB	MID-BB SEALED 68MM
Grips	VELO MIX KRATON
Front hub	RIMNETE 3/82 LOOSE-BALL
Rear hub	RIMNETE 105 SEALED
Rims	BX32 DOUBLE-WALL FREESTYLE
Clamp	INTEGRATED
Pegs	4X BLACK ALLOY 105MM



DUDE. RIDE IT LIKE YOU STOLE IT.

Dude is simple. Its boldness lies in the brazen color combinations and absence of mechanical complication. With a single fixed cog on the rear wheel, Dude relies on your pedal input for each and every stimulus. Want to go fast? Pedal fast. Want to slow down? Your resistance against the pedals is the only hope. This is where it all began. We build the Dude with a hydroformed aluminum frame to handle abusive city streets. And with its Orbea Lifetime Warranty, Dude will be your partner forever.

GEO CHART / DUDE

GEOMETRY

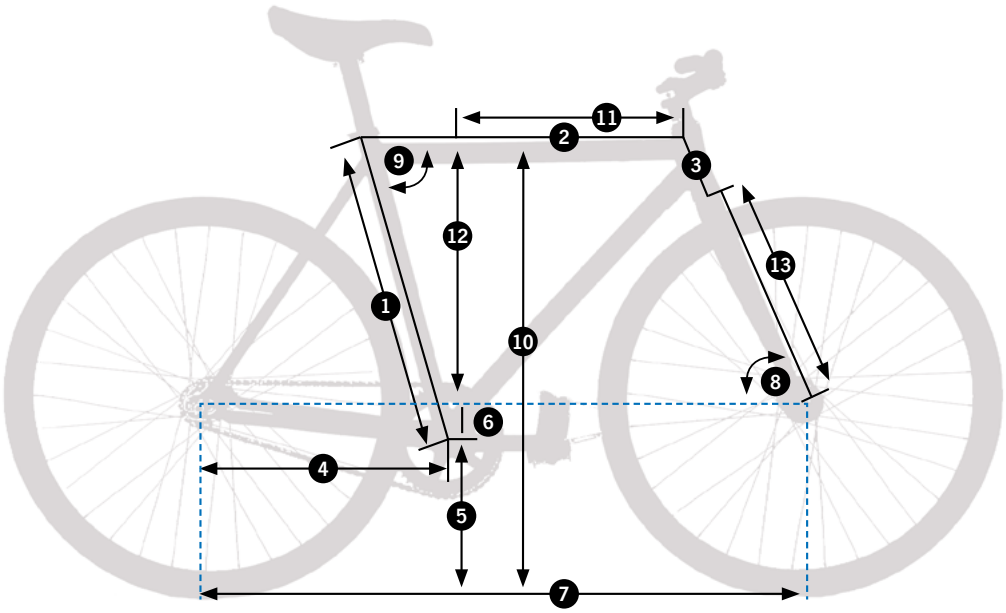
SIZE	49	52	55	58
1 – Seat Tube (C – T)	493	523	550	580
2 – Top Tube (EFF)	530	540	555	575
3 – Head Tube	92	120	145	170
4 – Chainstay	400	400	400	400
7 – Wheelbase	992	996	1004	1017
8 – Head Angle	71º	71,5º	72,1º	72,5º
9 – Seat Angle	76	75.5	75	74.5
13 – Fork Length	372	372	372	372

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
49	170	70	450
52	170	70	450
55	170	70	450
58	170	70	450

SIZE

HEIGHT (cm)	SIZE
<165	49
165 – 172	52
172 – 180	55
>180	58





DUDE 10

CODE	D455
SIZES	49, 52, 55, 58
COLORS	

BLACK
K1

WHITE
K2

Frame	ORBEA DUDE
Fork	ORBEA CARBON
Crankset	ADVANCED 46T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA RISER ALU 450MM
Stem	ORBEA BLACK
Brake levers	TEKTRO XL-751
Brakes	ORBEA OC-II
Chain	KMC HL-710
Wheels	ORBEA ALUMINIUM DW
Cassette	MICHE PRIMATO 18T
Tires	VITTORIA RUBINO 700X23 60TPI
Pedals	VP-365
Seatpost	ORBEA OC-II 31.6X400MM
Saddle	SELLE CONCOR VINTAGE



DUDE 20

CODE	D454
SIZES	49, 52, 55, 58
COLORS	

WHITE - RED
K7

BLACK-ANTHRACITE
K8

Frame	ORBEA DUDE
Fork	ORBEA CARBON
Crankset	PIONEER PROWHEEL SOLID 46T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA RISER ALU 450MM
Stem	ORBEA BLACK
Brake levers	TEKTRO XL-751
Brakes	ORBEA OC-II
Chain	KMC HL-710
Wheels	ORBEA ALUMINIUM DW
Cassette	ORBEA 18T FIXED
Tires	VITTORIA ZAFIRO 700X23
Pedals	VP-365
Seatpost	ORBEA OC-I 31.6X400MM
Saddle	SELLE CONCOR VINTAGE

carpe

EXPLORE YOUR CITY IN STYLE.

You have a style, and you know what fits. Combine it in a certain way with the Carpe 10. It's a lightweight, versatile, and comfortable bike for around town. It's no slouch when it comes to performance either. With Shimano XT 10-speed parts and Formula hydraulic disc brakes, you'll have the luxury of supreme shifting performance and the security of serious stopping power in high traffic situations. This is the bike that gives you the freedom you've been waiting for. Throw a leg over and enjoy.



GEO CHART / CARPE

GEOMETRY

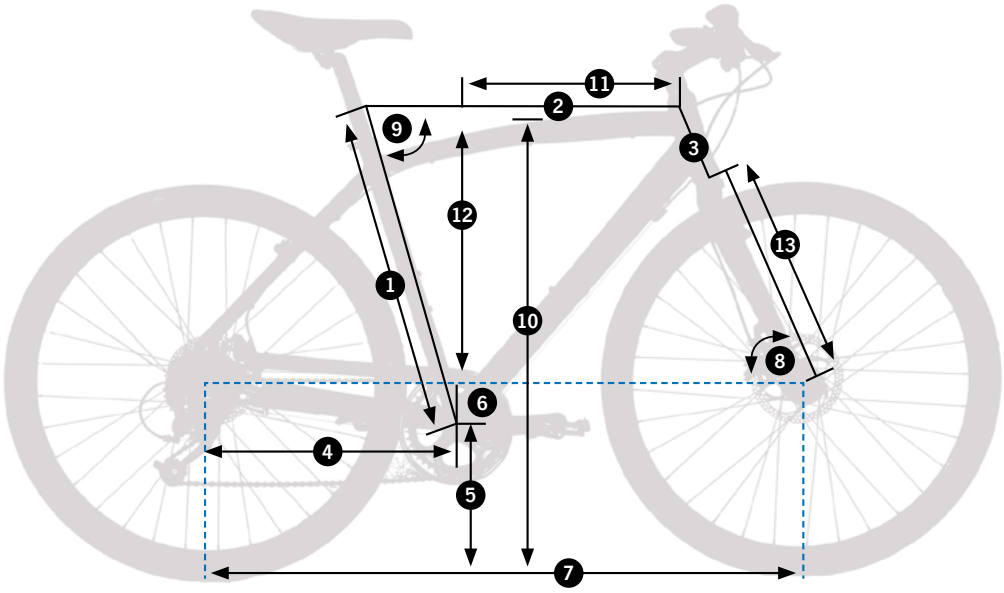
SIZE	S	M	L	XL
1 – Seat Tube (C – T)	430	480	520	560
2 – Top Tube (EFF)	535	550	590	610
3 – Head Tube	105	130	150	180
4 – Chainstay	435	435	435	435
5 – BB Height	278	278	278	278
6 – BB Drop	70	70	70	70
7 – Wheelbase	1023	1031	1062	1072
8 – Head Angle	70º	71º	71,5º	72º
9 – Seat Angle	74º	74º	73,5º	73º
10 – Standover	737	775	805	839
11 – Reach	386	394	422	428
12 – Stack	518	545	566	596
13 – Fork Length	387	387	387	387

ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
S	170	70	560
M	170	70	560
L	170	70	560
XL	170	70	560

SIZE

HEIGHT (cm)	SIZE
<160	S
165 – 180	M
178 – 190	L
185 – 198	XL



carpe



CARPE 10

CODE	D453
SIZES	S, M, L, XL
COLORS	

BLACK
FA

GREEN-RED
FB

BROWN-YELLOW
FD

GREY-GARNET
FG

Frame	ORBEA CARPE
Fork	ORBEA ALU URBAN
Crankset	PIONEER PROWHEEL 42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 560MM
Stem	ORBEA OC-II
Shifters	SHIMANO XT M780
Brakes	SHIMANO SLX M675 HYDRAULIC DISC
Rear Derailleur	SHIMANO XT M781 SHADOW
Chain	KMC X10
Wheels	ORBEA ALUMINIUM DW
Cassette	SHIMANO HG50 11-36 10-SPEED
Tires	VITTORIA RANDONEUR 700X32
Pedals	VP-69N BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO VL-1221

carpe



CARPE 20

CODE	D452
SIZES	S, M, L, XL
COLORS	

BLACK
FA

GREEN-RED
FB

BROWN-YELLOW
FD

GREY-GARNET
FG

Frame	ORBEA CARPE
Fork	ORBEA ALU URBAN
Crankset	PIONEER PROWHEEL 42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 560MM
Stem	ORBEA OC-II
Shifters	SHIMANO ACERA M390
Brakes	SHIMANO M355 HYDRAULIC DISC
Rear Derailleur	SHIMANO ACERA M390
Chain	SHIMANO HG53
Wheels	ORBEA ALUMINIUM DW
Cassette	SHIMANO HG300 12-36 9-SPEED
Tires	VITTORIA RANDONEUR 700X32
Pedals	VP-69N BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO VL-1221

carpe



CARPE 30

CODE	D451
SIZES	S, M, L, XL

COLORS

BLACK
FA

GREEN-RED
FB

BROWN-YELLOW
FD

GREY-GARNET
FG

Frame	ORBEA CARPE
Fork	ORBEA HI-TEN URBAN
Crankset	PIONEER PROWHEEL 42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 560MM
Stem	ORBEA OC-II
Shifters	SHIMANO M310
Brakes	SHIMANO M355 HYDRAULIC DISC
Rear Derailleur	SHIMANO ALTUS M310
Chain	KMC Z8
Wheels	ORBEA ALUMINIUM DW
Cassette	SHIMANO HG200 12-32 8-SPEED
Tires	KENDA K193 700X35
Pedals	VP-69N BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO VL-1221

urban

A GREAT WAY TO SEE YOUR CITY.



GEO CHART / URBAN

GEOMETRY

SIZE	M	L	XL
1 – Seat Tube (C – T)	430	465	500
2 – Top Tube (EFF)	576	597	616
3 – Head Tube	120	130	145
4 – Chainstay	450	450	450
5 – BB Height	303	303	303
6 – BB Drop	65	65	65
7 – Wheelbase	1077	1099	1119
8 – Head Angle	70,5º	70,5º	70,5º
9 – Seat Angle	74º	74º	74º
10 – Standover	813	833	885
11 – Reach	400	418	433
12 – Stack	614	623	637
13 – Fork Length	475	475	475

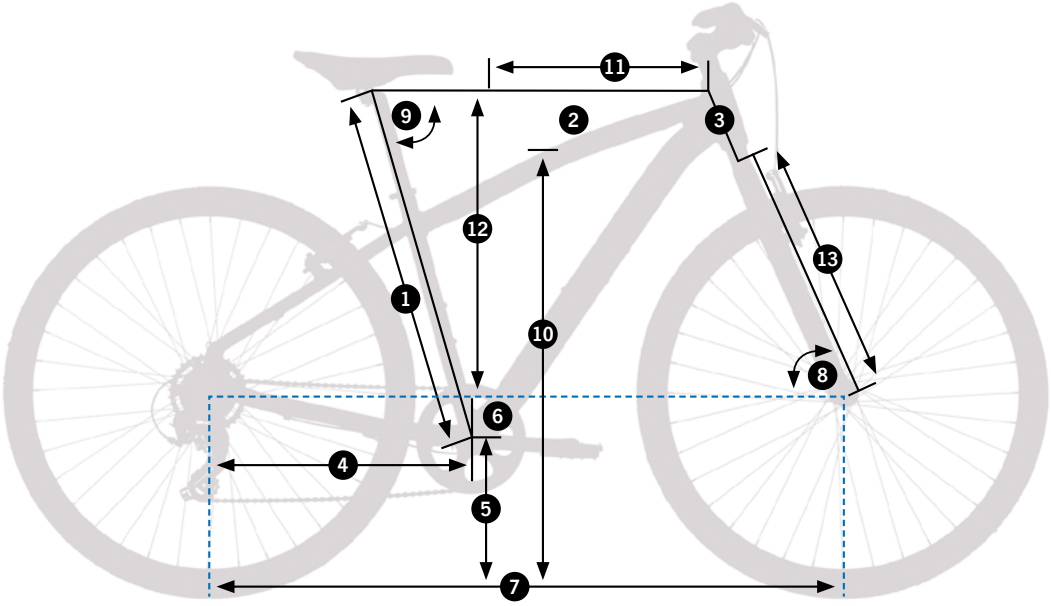
ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
M	170	60	540
L	170	60	540
XL	170	60	540

Urban 10 Stem 70mm Size M.

SIZE

HEIGHT (cm)	SIZE
168 – 175	M
175 – 185	L
185 – 205	XL



urban



URBAN 10

CODE	D450
SIZES	M, L, XL
COLORS	

BLACK
Q8

YELLOW
Q9

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Fork	ORBEA HI-TEN CROSS
Crankset	PIONEER PROWHEEL 42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 540MM
Stem	ORBEA OC-II
Shifters	SHIMANO M310
Brake levers	ORBEA
Brakes	TEKTRO MONOBLOCK MECHANICAL DISC
Rear Derailleur	SHIMANO TX35
Chain	KMC Z50 7-SPEED
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG20 12-32 7-SPEED
Tires	KENDA K193 700X35
Pedals	VP-560 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO VL-1221

urban



URBAN 20

CODE	D449
SIZES	M, L, XL
COLORS	

BLACK
Q8

YELLOW
Q9

Frame	ORBEA ALUMINUM. EASY RIDE GEOMETRY. INTERNAL CABLE ROUTING
Fork	ORBEA HI-TEN CROSS
Crankset	PIONEER PROWHEEL 42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA RISER 540MM
Stem	ORBEA ALU
Shifters	SHIMANO M310
Brake levers	ORBEA
Brakes	ORBEA V-BRAKE
Rear Derailleur	SHIMANO TX35
Chain	KMC Z50
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA K193 700X35
Pedals	VP-536 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO VL-1221

FOLDING

REDUCE THE SIZE OF YOUR LOAD.

Travel with a bike can be tricky enough because of cumbersome travel cases and busy airports. Even worse are the extra charges and baggage restrictions. Reduce the size of your load, and make your next bicycling vacation easier with the Orbea Folding A10. It has a lightweight, yet sturdy aluminum frame and fork, and it is designed to fold in half along the center of the frame to significantly reduce its packaged size.



FOLDING



FOLDING A10

CODE	D018
SIZES	UNIQUE
COLORS	

BROWN
U4

Frame	ALLOY FOLDING 20"
Fork	ALLOY 20"
Crankset	ALLOY 170MM
Direction	25,4*34*30*9
Handlebar	W540 STEEL
Stem	STEEL FOLDING
Shifters	SHIMANO 6SPD
Brake levers	SHIMANO 6SPD
Brakes	ALLOY V BRAKE
Rear derailleur	SHIMANO 6SPD
Chain	6 SPEED
Rear cogs	14-28T 6SPEED
Tyres	20"X1,75" BK A/V"
Seat post	500MM ALLOY
Saddle	BK COVER BLANCO SIDE
Pedals	9/16" AXLE P.P RIGHT FOLDING

FOLDING



FOLDING A20

CODE	D019
SIZES	UNIQUE
COLORS	

GREY
U5

Frame	ALLOY FOLDING 20”
Fork	STEEL 20"
Crankset	STEEL 170MM
Direction	25,4*34*30*9
Handlebar	W540 STEEL
Stem	STEEL FOLDING
Shifters	SHIMANO 6SPD
Brake levers	SHIMANO 6SPD
Brakes	ALLOY V BRAKE
Rear derailleur	SHIMANO 6SPD
Chain	6 SPEED
Rear cogs	14-28T 6SPEED
Tyres	20"X1,75" BK A/V"
Seat post	500MM STEEL
Saddle	BK COVER BLANCO SIDE
Pedals	9/16" AXLE P.P RIGHT FOLDING

FOLDING



FOLDING F10

CODE	D017
SIZES	UNIQUE
COLORS	

WHITE
U6

Frame	STEEL FOLDING 20”
Fork	STEEL 20"
Crankset	STEEL 170MM
Direction	25,4*34*30*9
Handlebar	W540 STEEL
Stem	STEEL FOLDING
Shifters	SHIMANO 6SPD
Brake levers	SHIMANO 6SPD
Brakes	ALLOY V BRAKE
Rear derailleur	SHIMANO 6SPD
Chain	6 SPEED
Rear cogs	14-28T 6SPEED
Tyres	20"X1,75" BK A/V"
Seat post	500MM STEEL
Saddle	BK COVER BLANCO SIDE
Pedals	9/16" AXLE P.P RIGHT FOLDING


ORBEA
MELON



KIDS2015



MX grow

THEY LOVE VEHICLES MORE THAN TOYS.

MX 16, 20, 24 AND 26

The new MX bikes are relutionary in terms of sporting ambition. They've been carefully designed, something that can be seen in each aluminum tube or component. The latter have been chosen for their capabilities, with heavy use in mind. Looking at young bikers riding their MXs on the mountains is really amazing. They are no longer kids on wheels; they become fully-fledged bikers. With the new MX, they look like kings and queens of the mountains, negotiating really tough off-road descents and riding easily across flat terrains. Now, when you go out with your children, you won't need to push them: just grab your own handlebar.

To be honest, when we started developing the MX, we didn't know where the limits were in bikes for children. We decided to work hard to find them but couldn't see them! In the process of this search, we found out how to make a relutionary bike. It was the new MX.

GROW 0

Grow 0 is the ideal machine to get the dynamic balance and the safety every child needs when learning to ride a bike.

In terms of design, thanks to the bike's ergonomic lines, the rider (up to five-year-olds) can lift their feet and keep the proper riding position.

The feel is compact and light, because the frame and the components are made in aluminum.

Although it's considered to be a useful vehicle for trips of 1km maximum, there have been records among our meticulous testers.

It's children who turn the GROW 0 into a new, special object that they can use even after they learn to ride a bike. When they master it, they can find new features and go on having fun and learning new skills. The Grow 0 will continue to be their vehicle of choice on many occasions.

GROW 1 AND 2

Sometimes, objects go further. This is the case with Grow. It's a bike, but it also means feeling free, getting a nice breeze on your face while riding your first bike, going out on your bicycle for the first time (genuine adventure trips), feeling independent on your first vehicle ever, and many other experiences and sensations associated with the machine itself.

Grow is a bike that we've designed bearing all these things in mind.

We've also considered the need for durable quality products that help protect the environment from an industrial and social perspective – a goal you can achieve through ideas, design and action.

FEATURES







GROW SYSTEM

These are bikes that really grow up with kids. They're durable quality bikes that are good for them, and good for all. The GROW bikes are designed to grow along with their riders. A simple feature doubles the bike's average lifespan. This means:

· Better ergonomic fit than traditional bikes (most kids ride smaller or bigger bikes than they should be riding).

· Lower cost for the buyer (you get a product with a much longer lifespan).

· Higher component quality (durable products must have quality parts).

· Lower environmental impact (it benefits all).

· EASY RIDE geometry: It makes the GROW bikes shorter, so that they can be used by smaller children, who can learn to ride them easily because these bikes are pedal-less (GROW 0). In addition, EASY RIDE makes the bikes safer, more stable even at a standstill (when keeping balance is very important), for kids who are learning and those who 'already know' how to ride a bike.

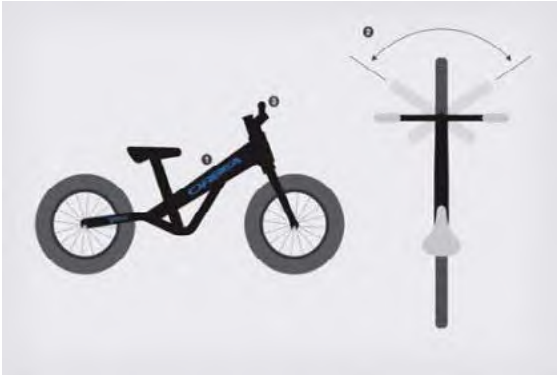
· The GROW frame is made in aluminum for a lighter bike and a quality reflected in the bike's solid and reliable feel.

The GROW design and components are legally protected.

OK'S OPTIMIZED

Geometry and lightness make the bike usable and provide good weight balance when rolling or handling the bike at a standstill. The Grow 0 is particularly fast when riders decide to turn back and return to the park at full speed. Lightness shows when the bike is carried by strong, big people – like parents or grandparents.

The large rounded tubes, the ergonomic nonslip footrests, and the limited turn system by Orbea can prevent a few crashes and bruises.





SL BIKES
(GROW 1 AND 2, MX 16, 20, 24 AND 26)

The light weight of Orbea's products for little kids and youngsters results in amazing usability. We're sure our bikes for young riders will set new market standards.

To accomplish this, we make our bikes – frame and components – mostly in aluminum.

If lightness is a desirable feature in adult bicycles, it's even more important in bikes for kids. Why is this so?

Kids are not as strong as adults (we mean physical strength only!), which makes them more sensitive to weight.

Taking the bike and rider together, the former is proportionally larger when the user is a kid. This is why every kilogram a bike maker can take off a bike's total weight counts: The lighter the bike, the lower its weight in the rider-machine complex. And we've managed to take off quite a few kilos!

If the bike weighs less, it can be handled more easily at a standstill, which is really important for the riding experience to be nicer.

X1 (GROW 1 AND 2, MX 16, 20, 24 AND 26), ORBEA MINIPRO GEOMETRY
(MX 16, 20, 24 AND 26)

We wanted to make bikes that kids could ride and embark on real adventures ending at dinner time. This is why we also worked on transmission, until we came up with an adequate gear ratio.

For pedaling power reasons, kids can't deal with too long (or hard) gear ratios, but they can't use gears that are too short either, because this has an effect on riding stability. At Orbea we have identified the gears that kids need at each age, and a gear ratio that suits them all.

The outcome is amazingly effective:

· The gear system is easier to use, which means children can quickly learn to handle it properly.

· The problems caused by inadequate combinations of the front and rear gears are avoided.

· The bike is lighter.

ORBEA MINIPRO GEOMETRY
(MX 16, 20, 24 AND 26)

Orbea's MiniPro Geometry is the distinctive feature of the new MXs and their terrific performance. This geometry is particularly compact and oriented to sports performance:

· The rear part is especially short for better traction and climbing capacity. This, together with a kid's low weight, makes an
efficient rider-bike complex for a rush or two.

· A well-studied sloping geometry and a slightly shorter bottom bracket provide stability and agility to face downhill slopes in a different way. These bikes have been designed even for more experienced riders who want to handle impossibly difficult off-road descents.

· The starting position and the handling of the bike at a standstill really matter in bikes for kids, and we have studied and improved them. We wanted to make bikes that kids could ride and embark on real adventures ending at dinner time. This is why we also worked on transmission, until we came up with an adequate gear ratio.

GEO CHART / MX KIDS

GEOMETRY

SIZE	16	20	24	26
1 – Seat Tube (C – T)	207	257	329	367
2 – Top Tube (EFF)	385.3	445	519	536
3 – Head Tube	90	95	90	90
4 – Chainstay	311	343	387	425
5 – BB Height	192	237	272	280
6 – BB Drop	8	16	30	45
7 – Wheelbase	744	630	939	1015
8 – Head Angle	71º	66º	66º	70º
9 – Seat Angle	73,2º	74º	72º	73º
10 – Standover	442	533	660	713
11 – Reach	288	320	353	371
12 – Stack	323	425	500	538
13 – Fork Length	255	345	420	450

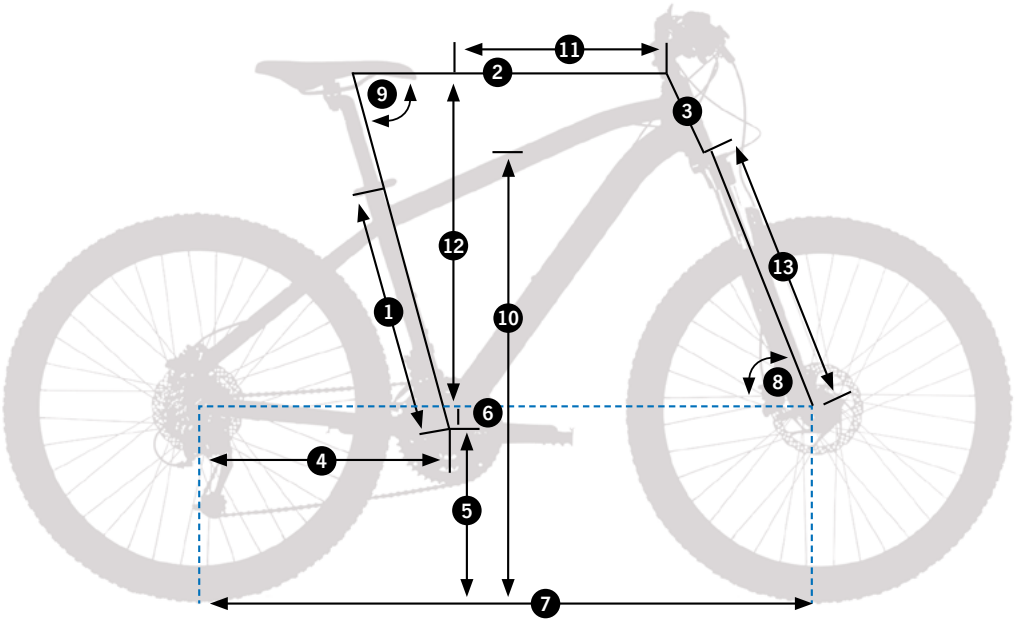
ERGONOMICS

SIZE	CRANK	STEM	HANDLEBAR
16	102	50	460
20	127	60	540
24	152	60	540
26	170	70	640

Mx 20 Xc Stem 70mm, Mx 24 Xc Stem 70mm and Handlebar 560mm.

SIZE

HEIGHT (cm)	SIZE
100 – 115	16
115 – 135	20
135 – 155	24
>155	26



MX



MX 16

CODE	D005
SIZES	UNIQUE
COLORS	

BLACK-FUNKY
N7

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	ORBEA HI-TEN 16”
Crankset	ALLOY 36T (102)
Headset	1-1/8” SEMI-INTEGRATED
Handlebar	ORBEA ALU RISER
Stem	ORBEA KID
Brake levers	ALU V-BRAKE
Brakes	ALU V-BRAKE
Chain	KMC SINGLE-SPEED
Wheels	ORBEA ALU 16”
Cassette	ORBEA 18T
Tires	KENDA 879 16X1.75
Pedals	RESINE BMX
Seatpost	ORBEA KID
Saddle	VELO 5086

MX



MX 20 DIRT

CODE	D006
SIZES	UNIQUE

COLORS

BLACK-FUNKY
N7

RED - WHITE
N8

ANTHRACITE-YELLOW
N9

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	ORBEA HI-TEN 20”
Crankset	ALLOY 36T (127)
Headset	1-1/8” SEMI-INTEGRATED
Handlebar	ORBEA RISER 540MM
Stem	ORBEA ALU
Shifters	SHIMANO M310
Brake levers	ORBEA
Brakes	ALU V-BRAKE
Rear Derailleur	SHIMANO ALTUS M310
Chain	KMC Z50
Wheels	ORBEA ALU 20”
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA 922 20X2.00
Pedals	RESINE BMX
Seatpost	ORBEA OC-I 27.2X250MM
Saddle	VELO 7087

MX



MX 20 XC

CODE	D007
SIZES	UNIQUE

COLORS

BLACK-FUNKY
N7

RED - WHITE
N8

ANTHRACITE-YELLOW
N9

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR M3010 40MM V-BRAKE QR
Crankset	ALLOY 36T (127)
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 540MM
Stem	ORBEA OC-I
Shifters	SHIMANO M310
Brake levers	ORBEA
Brakes	ALU V-BRAKE
Rear Derailleur	SHIMANO ALTUS M310
Chain	KMC Z50
Wheels	ORBEA ALU 20"
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA 922 20X2.00
Pedals	RESINE BMX
Seatpost	ORBEA OC-I 27.2X250MM
Saddle	VELO 7087

MX



MX 20 TEAM

CODE	D008
SIZES	UNIQUE

COLORS

BLACK-FUNKY
N7

RED - WHITE
N8

ANTHRACITE-YELLOW
N9

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	ORBEA ALU 20”
Crankset	ALLOY 34T (127)
Headset	1-1/8” SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 540MM
Stem	ORBEA OC-I
Shifters	SHIMANO M310
Brake levers	ORBEA
Brakes	ALU V-BRAKE
Rear Derailleur	SHIMANO ALTUS M310
Chain	Z-8
Wheels	ORBEA ALU 20”
Cassette	SHIMANO HG31 11-34 8-SPEED
Tires	KENDA 1047 20X1.75
Pedals	RESINE BMX
Seatpost	ORBEA OC-I 27.2X250MM
Saddle	VELO 7087

MX



MX 24 DIRT

CODE	D009
SIZES	UNIQUE

COLORS

BLACK-FUNKY
N7

RED - WHITE
N8

ANTHRACITE-YELLOW
N9

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	ORBEA HI-TEN 24”
Crankset	ALLOY 36T (152)
Headset	1-1/8” SEMI-INTEGRATED
Handlebar	ORBEA RISER 540MM
Stem	ORBEA ALU
Shifters	SHIMANO M310
Brake levers	ORBEA
Brakes	ALU V-BRAKE
Rear Derailleur	SHIMANO ALTUS M310
Chain	KMC Z50
Wheels	ORBEA ALU 24”
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA 922 24X1.95
Pedals	RESINE BMX
Seatpost	ORBEA OC-I 27.2X300MM
Saddle	VELO 5061

MX



MX 24 XC

CODE	D010
SIZES	UNIQUE

COLORS

BLACK-FUNKY
N7

RED - WHITE
N8

ANTHRACITE-YELLOW
N9

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR M3010 40MM V-BRAKE QR
Crankset	ALLOY 36T (152)
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 560MM
Stem	ORBEA OC-I
Shifters	SHIMANO M310
Brake levers	ORBEA
Brakes	ALU V-BRAKE
Rear Derailleur	SHIMANO ALTUS M310
Chain	KMC Z8
Wheels	ORBEA ALU 24"
Cassette	SHIMANO HG31 11-34 8-SPEED
Tires	KENDA 922 24X1.95
Pedals	RESINE BMX
Seatpost	ORBEA OC-I 27.2X300MM
Saddle	VELO 5061

MX



MX 24 TEAM

CODE	D011
SIZES	UNIQUE

COLORS

BLACK-FUNKY
N7

RED - WHITE
N8

ANTHRACITE-YELLOW
N9

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	ORBEA ALU 24”
Crankset	ALLOY 32T (152)
Headset	1-1/8” SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 560MM
Stem	ORBEA OC-I
Shifters	SHIMANO ACERA M390
Brake levers	ORBEA
Brakes	ALU V-BRAKE
Rear Derailleur	SHIMANO ACERA M390
Chain	SHIMANO HG53
Wheels	ORBEA ALU 24”
Cassette	SHIMANO HG300 12-36 9-SPEED
Tires	KENDA 1047 24X1.95
Pedals	RESINE BMX
Seatpost	ORBEA OC-I 27.2X300MM
Saddle	VELO 5061

MX



MX 26 DIRT

CODE	D012
SIZES	UNIQUE

COLORS

WHITE-SILVER
MA

BLACK-BLUE
MB

ANTHRACITE - RED
MD

GREEN - BLACK
MF

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR M3020 75MM DISC QR
Crankset	SHIMANO M131 24X34X42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 640MM
Stem	ORBEA OC-I
Shifters	SHIMANO M310
Brake levers	ORBEA
Brakes	TEKTRO MONOBLOCK MECHANICAL DISC
Rear Derailleur	SHIMANO ALTUS M310
Front Derailleur	DESV. ALTUS
Chain	KMC Z50 7-SPEED
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG20 12-32 7-SPEED
Tires	KENDA K922 26X1.95"
Pedals	VP-536 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 5061

MX



MX 26 XC

CODE	D013
SIZES	UNIQUE

COLORS

WHITE-SILVER
MA

BLACK-BLUE
MB

ANTHRACITE - RED
MD

GREEN - BLACK
MF

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	SR SUNTOUR M3020 75MM DISC QR
Crankset	SHIMANO M171 24X34X42T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 640MM
Stem	ORBEA OC-I
Shifters	SHIMANO M310
Brakes	SHIMANO M355 HYDRAULIC DISC
Rear Derailleur	SHIMANO ALTUS M310
Front Derailleur	DESV. ALTUS
Chain	KMC Z8
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG31 11-34 8-SPEED
Tires	KENDA K922 26X1.95"
Pedals	VP-536 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 5061

MX



MX 26 TEAM

CODE	D014
SIZES	UNIQUE

COLORS

WHITE-SILVER
MA

BLACK-BLUE
MB

ANTHRACITE - RED
MD

GREEN - BLACK
MF

Frame	ORBEA HEXATUBING ALUMINUM. MX COMPACT GEOMETRY. INTERNAL CABLE ROUTING
Fork	ROCKSHOX XC30 TK 100 QR
Crankset	PIONEER PROWHEEL 34T
Headset	1-1/8" SEMI-INTEGRATED
Handlebar	ORBEA OC-I RISER 640MM
Stem	ORBEA OC-I
Shifters	SHIMANO ACERA M390
Brakes	SHIMANO M355 HYDRAULIC DISC
Rear Derailleur	SHIMANO ACERA M390
Chain	SHIMANO HG53
Wheels	ORBEA ALUMINUM DISC
Cassette	SHIMANO HG300 12-36 9-SPEED
Tires	KENDA K922 26X1.95"
Pedals	VP-536 BLACK
Seatpost	ORBEA OC-I 27.2X400MM
Saddle	VELO 5061

grow



GROW 0

CODE	D001
SIZES	UNIQUE
COLORS	

PINK-ORANGE
R1

BLACK-BLUE
R0

Frame	ORBEA GROW 12”
Fork	ORBEA HI-TEN 12”
Headset	1-1/8” SEMI-INTEGRATED
Handlebar	ORBEA ALU RISER
Stem	ORBEA KID
Wheels	ORBEA ALU 12”
Tires	KENDA 841 12-1/2*2-1/4
Seatpost	ORBEA KID
Saddle	VELO 5086

grow



GROW 1

CODE	D002
SIZES	UNIQUE
COLORS	

PINK-PURPLE
R2

RED-GARNET
R3

YELLOW-ORANGE
R4

PISTACHIOGREEN-GREEN
R5

Frame	ORBEA GROW 16”
Fork	ORBEA HI-TEN 16”
Crankset	ALLOY 36T (102)
Headset	1-1/8” SEMI-INTEGRATED
Handlebar	ORBEA ALU RISER
Stem	ORBEA KID
Brake levers	ALU V-BRAKE
Brakes	ALU V-BRAKE
Chain	KMC SINGLE-SPEED
Wheels	ORBEA ALU 16”
Cassette	ORBEA 18T
Tires	KENDA 879 16X1.75
Pedals	RESINE BMX
Seatpost	ORBEA KID
Saddle	VELO 5086

grow



GROW 21 SPEED

CODE	D003
SIZES	UNIQUE

COLORS

- PINK-BLACK R6
- RED-BLACK R7
- ORANGE-BLACK R8
- PISTACHIO GREEN - BLACK R9

Frame	ORBEA GROW 20”
Fork	ORBEA HI-TEN 20”
Crankset	ALLOY 36T (127)
Headset	1-1/8” SEMI-INTEGRATED
Handlebar	ORBEA ALU RISER
Stem	ORBEA KID
Brake levers	ALU V-BRAKE
Brakes	ALU V-BRAKE
Chain	KMC SINGLE-SPEED
Wheels	ORBEA ALU 20”
Cassette	ORBEA 18T
Tires	KENDA 879 20X1.75
Pedals	RESINE BMX
Seatpost	ORBEA OC-I 27.2X250MM
Saddle	VELO 7087

grow



GROW 2 7 SPEED

CODE	D004
SIZES	UNIQUE

COLORS

- PINK-BLACK R6
- RED-BLACK R7
- ORANGE-BLACK R8
- PISTACHIO GREEN - BLACK R9

Frame	ORBEA GROW 20”
Fork	ORBEA HI-TEN 20”
Crankset	ALLOY 36T (127)
Headset	1-1/8” SEMI-INTEGRATED
Handlebar	ORBEA ALU RISER
Stem	ORBEA KID
Shifters	SHIMANO M310
Brake levers	ORBEA
Brakes	ALU V-BRAKE
Rear Derailleur	SHIMANO ALTUS M310
Chain	KMC Z50
Wheels	ORBEA ALU 20”
Cassette	SHIMANO TZ31 14-34 7-SPEED
Tires	KENDA 879 20X1.75
Pedals	RESINE BMX
Seatpost	ORBEA OC-I 27.2X250MM
Saddle	VELO 7087





EQUIPMENT 2015



HELMETS

A HELMET FOR EVERY PASSION.

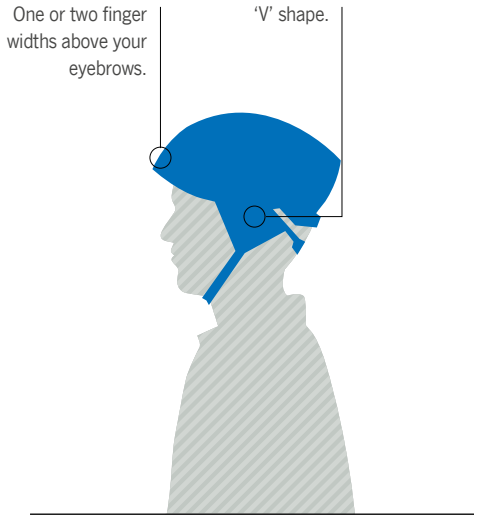
Every rider is different. That's why Orbea offers a complete range of helmets that exhibit our dedication to cycling, new technologies and unique design. Whether you ride the race course, through the trees or around the corner, Orbea makes a helmet for you.

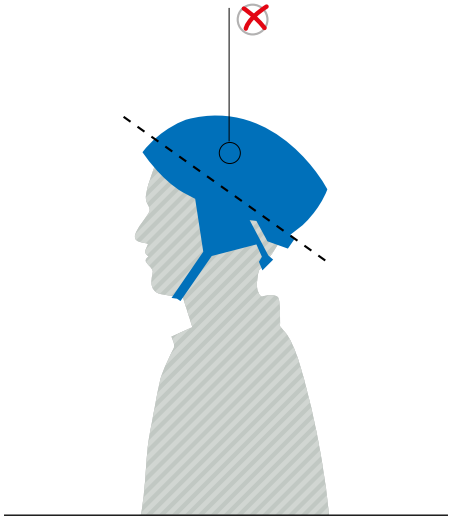
MODELS

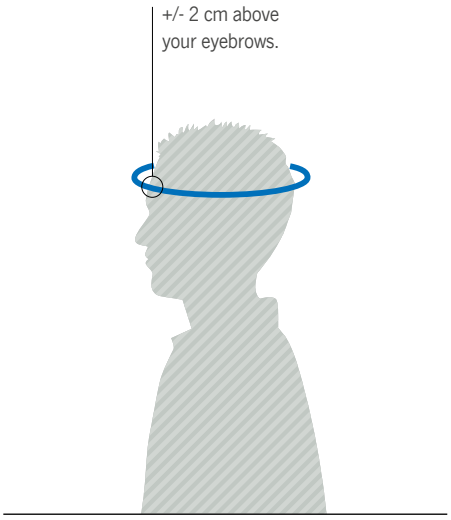
RESUME

USE	MODEL	SIZE	COLOR
ROAD	R_10	S, M, L	5
ROAD	R_50	S, M, L	5
MTB	M_1	M, L	4
MTB	M_2	M, L	4
ALL USE	H_10	M, L	5
CITY	CITY	M, L	1
YOUTH	YOUTH	ONE SIZE	4
KIDS	KIDS	ONE SIZE	4

CHOOSE YOUR HELMETS







ADJUSTING HELMET STRAPS

Adjust the fit ring. Buckle and tighten to your neck. The two straps should form a 'V' shape under and slightly in front of the ears. Buckle the chin strap. The helmet should sit level on your head, one or two finger widths above your eyebrows.

CHECKING FIT

To check the right fit, try to move your helmet from side to side, backward and forward. If it rocks 1 cm or over, adjust the ring. When you turn your head, the helmet should move along.

CHOOSING HELMET SIZE

The best way to measure your head circumference is wrapping a flexible measuring tape around it.

R1 FEATURES

HELMETS R1

We set out to change the way riders purchase road helmets. There are now aero options, aero/vented hybrids, and traditional lightweight minimalist vented helmets. How does a rider decide? Can one helmet do it all? To create the R10 we chose to integrate the various features we wanted into one new system.

LESS WEIGHT

MORE AERO

BETTER COOLING





AERODYNAMICS

Our wind tunnel testing has shown us that helmet profile and volume are more important than the number (or lack) of vent holes in reducing drag. A helmet that hugs the head as closely as possible and doesn't sit far above the riders skull is a fast helmet. After that, a screen or visor further reduces drag so that a well-ventilated helmet can be as aerodynamic as a higher volume helmet with no vents at all. There is no reason to sacrifice airflow for a reduction in drag - by reducing profile and volume the R10 does both.

WEIGHT

Rather than introduce several road helmets that are purpose-specific, we set out to create a system. A stylish, light weight road helmet that can accept multiple accessories and perform numerous purpose-specific tasks. A rain shell keeps your head warm and dry. An integrated windscreen provides a distinct aero advantage on days that you need it. Underneath it all, a strong, comfortable, well-ventilated, low-profile design is as distinctive and elegant as any helmet available.

Weight is an elusive goal, but we have been able to achieve 15 % weight reduction.

How?
· Reducing EPS density by 10 %.
· Cross bridge design that allows reducing thickness. Polycarbonate shell cross internally the helmet reinforcing the structure.

COOLING

Orbea has created a relutionary design for its helmets: it directs air flow naturally.

When the air hits the helmet, it is directed naturally as a result of its careful design. In the case of a linear design, the air flow encounters resistance when it hits the helmet's surface, and it therefore heads towards the top part of the helmet.

This special design translates into better ventilation and a more compact structure. In designing this product, we took two aspects into consideration:

· ES Index (External Surface Index). The External Surface Index: less surface area means better ventilation and a more attractive esthetic.
· ITP Index (Interal Touch point Index). The Internal Touch Point Index: This represents the surface with the points of contact between the helmet and the cyclist's head.

Less surface area results in improved ventilation.


ORBEA
ORBEA
ORBEA
ORBEA

CYCLING APPAREL

IT´S MORE THAN JUST CLOTHES. IT´S MY SECOND SKIN.

Pedaling along 200km, in cold or heat, on flat or steep terrain… You can't leave it to improvisation. That's why our garments are based on an uncompromising philosophy and design. We use cutting-edge technology and sophisticated FABRICS that help riders train and compete at the highest level. Temperature control FABRICS keep your body temperature constant, maximizing performance at any level of intensity.

RACING

Rider profile:
Committed rider, intermediate to advanced level (competition and training).

Rides per week: 3 to 6

Padding:
1 multi-thickness 11mm layer, with density 100kg/cm3.

Shape:
3D relief cutting technology for unpressed open-cell foam (highly breathable and elastic).

FEATURES
· Fabric made of carbon fibers for better breathability, temperature regulation, antibacterial properties and high performance.
· Fabric designed to prevent skin irritation and sores, and to improve moisture transfer.
· Stretch fabric designed to give more freedom of

MOVEMENT
· Pre-formed seamless chamois with 90º bent wings for maximum comfort.
· Two-level thickness, IMPACT 8 and IMPACT 10. Best vibration absorption and maximum comfort in areas under high pressure.
· Padding dimension. Bigger support area for greater comfort, taking different anatomical positions of sit bones into consideration.

SPORT

Rider profile:
Beginner to intermediate level; long outings.

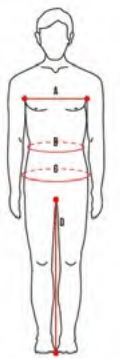
Rides per week: 1 to 4

Padding:
1 multi-thickness 12mm layer.

Shape:
3D relief cutting technology for unpressed open-cell foam (highly breathable and elastic).

FEATURES
· External antibacterial fabric.
· Fabric designed to prevent skin irritation and sores.
· IMPACT 7 padding. Good vibration absorption and maximum comfort in areas under high pressure.

APPAREL SIZE



SIZE	CHEST	WAIST	HIP	INSEAM
	A	B	C	D
S	92	80	96	81
M	96	84	100	82
L	100	88	104	83
XL	104	92	108	84
XXL	108	96	112	85
XXXL	112	100	116	86


100%
MAXIS

HYDRA

NEVER DRY.

During exercise you must keep hydrated for good performance, because your fluid losses increase. Staying hydrated, thus, is essential for good health.
The Hydra hydration packs encourage you to drink consistently for improved sports performance.

Name	HYRDRA
Use	MTB, ENDURO, TRAIL RUNNING, KAYAKING, SKIING
Capacity	2+2L (4L) / 10+2L (12L)
Technology	MATERIALS, FEATURES AND FUNCTIONS FIT FOR RACING
Orbea values	ORBEA DESIGN

GOOD FOR COMPETITION

Orbea is competition, and Hydra is no exception. Our backpacks can face any racing challenge you take up. The reservoir has a thermal case, a whistle and a label with mountain safety information.

ERGONOMICS

The Hydra packs are anatomically crafted to fit your natural position and offer more comfort and easier access to the main compartment.

They have three fastening points in the back, chest and waist for better fit and comfort during exercise.

FEATURES



MATERIALS

The Hydra packs are made mainly with polyester and nylon. A careful selection of the diverse variants of these materials results in waterproof, breathable and light products.

FUNCTIONAL

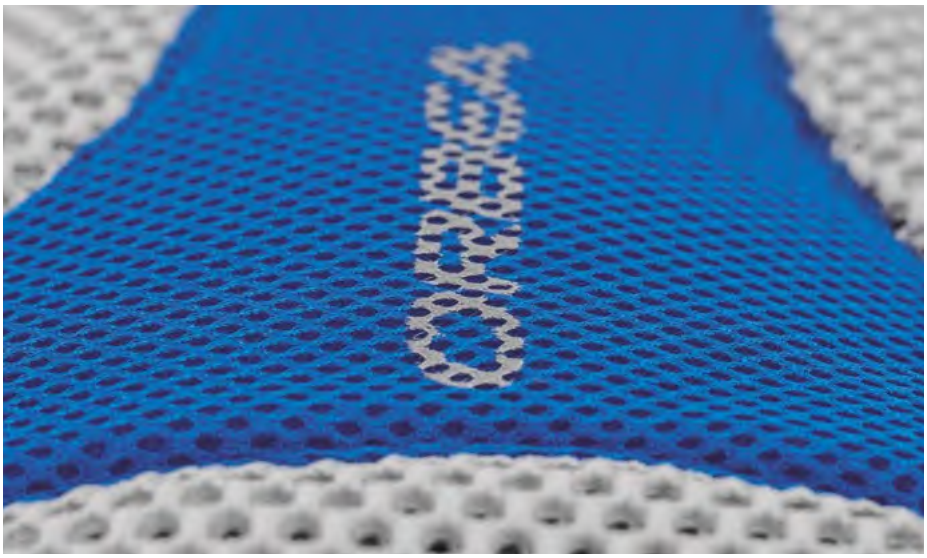
The pockets in the Orbea Hydra packs can be accessed while riding. There's a pocket separate from the hydration reservoir. In it you can carry everything you need to do sports. There's also a pocket to carry tools, and two more side pockets for small things. The 10+2L pack features a fifth pocket to store electronic devices such as a mobile phone or a GPS, and has a headphone exit port.

· Magnetic fasteners to hold the anti-leak valve and tube.
· Straps to hold helmet and sticks.
· Rain cover and safety whistle.
· Extra pockets for trash, sunglasses and cellphone; exit port for headphones.
· Reflective strips.

BREATHABLE

The Hydra packs carry special, high-quality breathable and fast-dry fabrics in the areas where they come in contact with your body.

The Air Flow System (AFS) technology is designed for the heat to escape via the central air channel and prevents sweat from staying on the user's body.





WATERPROOF

The materials of the Hydra packs protect the main compartment from getting wet, which means the things you carry in it won't get damaged.

The rain cover comes in handy in bad weather, protecting your stuff, offering improved visibility and making cleaning and maintenance easier.

LIGHTWEIGHT

We've used ultralight materials to create a hydration solution for greater comfort during outdoor activity.

VOLUME

2+2L pack with six compartments and interior organizer.

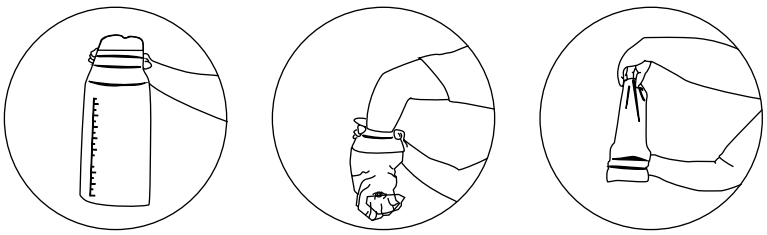
10+2L pack with five compartments and interior organizer.

MAINTENANCE AND CLEANING TIPS

· Hand wash at 30º.
· No bleaching.
· No ironing.
· No tumble drying.



Maintenance
The hydration reservoir needs cleaning and drying for proper maintenance. The reversible reservoir flips completely inside out, making it easy to clean and dry. Follow these six simple steps to clean and dry the reservoir:



1. Unzip and throw away the fluid inside the reservoir.
2. Put your hand into the reservoir right to the bottom and turn it inside out.
3. Wash with warm water and soap to remove all dirt.
4. Rinse.
5. Leave to dry completely.
6. Return the reservoir to the initial shape and get it ready for your next outing.

Clean tube with warm water.

BOOK

ORBEA