The quest for great victories has always pushed us to create transmissions and wheels of the finest quality and capable of race-winning performance.

The 12x2 Speed Super Record™ EPS™ electronic groupset, alongside the new Bora™ WTO wheels represent the most recent developments in Campagnolo’s historic mission to improve the cycling experience.

Campagnolo, passion and innovation for great victories!
As the hashtag says, #thoseintheknow choose Campagnolo® and those that choose Campagnolo® do so not only because they are sure of getting their hands on some of the most performance oriented, reliable and sophisticated componentry for cycling available but also due to what Campagnolo® represents. Products made with passion that exude a pure and authentic cycling tradition will give a definite race winning advantage but also communicate that the rider is one who takes a great deal of pride in his cycling and expects something more from his time in the saddle.
GROUPSETS

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Campagnolo® presents the next step towards perfecting movement: the 12x2 Speed groupsets.

A historic milestone indeed as Campagnolo proudly presents a performance solution that improves upon every aspect of the groupset: ergonomics, performance, precision, reliability and design.
WHAT IF THIS...

BECOMES THIS?

RAIN WON'T STOP YOU

**EPS** IS WATERPROOF
V4 Interface

External version
Same aerodynamic design, new 12 speed specific intelligence

Command center
Transmission control but also BLE and ANT+ antennae for complete interaction with eternal devices

V4 Interface
Internal version:
Option 1 - BAR END

V4 Interface
Internal version:
Option 2: FRAME
POWER UNIT

V4

New Design, New Possibilities

Longer and Longer Lasting:
10% longer battery life

Slim structure compatible with nearly all frames
Seat post adaptor allows for easy internal mounting
Improved and customizable ergonomics

New hood design:
Vari Cushion Technology

Upgraded brake lever
Result of meticulous hand movement studies (double curve brake lever, new form outward curve).
Larger thumb shifting lever

Braking lever pivot aligned with slant of Ergopower

Better, more efficient power transfer requiring less energy from riders hand

Upshifting lever enlarged

One lever
One action

Upshifting lever incorporated into brake lever

Multi-Shift mechanism maintained

Upshift up to 12 sprockets
Downshift up to 12 sprockets
Solid, robust and reliable internal design

New 12 speed shifting, same internals that have proven worthy since EPS’s launch

Multi-dome Technology

Mode Button

ERGOPOWER EPS DB

Master cylinder: low profile made possible via fantastic design

- Compact
- Vertical position for optimum bleeding and functionality
- Bleeding port on top extremity
- Single cylinder design (same for right and left)

Complete customization

Both brake and upshifting levers are completely customizable to the rider’s needs and preferences by using a simple allen key

ERGOPOWER EPS DB

AMS

Not only ergonomics but also performance. AMS setting allows for fine-tuning of brake performance and free stroke to meet each individual cyclists personal preference
Thin cage and specific setting for crossings
A prompt reply of the front derailleur is guaranteed when shifting.

Inner semi-cage design optimized for excellent chainring engagement
Maximum shifting fluidity thanks to the cage shape which helps the chain engage the chainring.

Flawless, 12 speed specific, front shifting
Advanced and meticulously studied form and new intelligence from interface.
Campagnolo motors

Extreme strength and precision

Extremely fluid front shifting even under heavy load

Automatic Chain Centering

Communication from rear derailleur allows front derailleur to adjust position

REAR DERAILLEUR

SUPER RECORD™ EPS™

12x2 SPEED™
Multi-Shift Technology
Precise and lightning fast shifting performance up to 11 sprockets at a time

No compromise construction
Lightning fast
Extremely strong
Extremely resistant

Trajectory curve optimized for 11-29 and 11-32 cassettes
Improved shifting performance having the upper pulley always working very close to each sprocket

Thinner internal cage width
- Larger gap between rd cage and spokes in rotation
- More reliable design
- Increased safety of rider and product
- Easier adjustment of rear derailleur

Traditional mech hanger specific rear derailleur geometry

Upper body in alluminum: fantastic resistance to impact

Improved shifting performance having the upper pulley always working very close to each sprocket

Thinner internal cage width
- Larger gap between rd cage and spokes in rotation
- More reliable design
- Increased safety of rider and product
- Easier adjustment of rear derailleur

Multi-Shift Technology
Precise and lightning fast shifting performance up to 11 sprockets at a time

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Multi-Shift Technology
Precise and lightning fast shifting performance up to 11 sprockets at a time
ERGOPOWER™

super record™

record™

chorus™

12x2 speed™
Improved ergonomics

- Customizable ergonomics
  - Larger thumb shifting lever

- New hood design
  - Vari Cushion technology
  - Upshifting lever enlarged

- Upgraded brake lever
  - Result of meticulous hand movement studies (double curve brake lever, new form outward curve)
Upshifting lever incorporated into brake lever

Ultra Shift™ mechanism maintained
up to 5 sprockets in downshifting - Unique to Campagnolo
up to 3 gears in upshifting

Breaking lever pivot aligned with slant of Ergopower™
better, more efficient power transfer requiring less energy from riders hand

One lever One action

Completely redesigned internals
perfect compatibility with completely new rear derailleur
New transmission offers some of the smoothest and most effortless shifting ever produced by Campagnolo.

New cables and housing drastically reduce friction.

Maintain exceptional smoothness far beyond those of the competition.

**THE MAXIMUM SMOOTHNESS**

maximum performance longevity

**CABLES AND HOUSING**
FRONT DERAILLEUR

SUPER RECORD™

RECORD™

CHORUS™

12x2 SPEED™
Completely new design builds upon successes of Rev11+

Separation of semi-rod from external rod:
- Eliminates free stroke
- Quicker, more immediate, reactive front upshifting
- New Design and Trajectory Angle

Inner semi-cage design optimized for excellent chainring engagement
- Maximum values of shifting fluidity thanks to the cage which helps the chain in engaging the chainring

Dual position of cable grip bolt
- Allows for use of tires up to 32mm
- Allows for cable position to be adapted to specific needs: customizeable for differing tire sizes and frame designs

Dedicated positions for each chainring and each scenario for each chainring

Thin cage and specific setting for crossings
- A prompt reply of the front derailleur is guaranteed when shifting
REAR DERAILEUR
Upper body in ULTRA-LIGHT technopolymer reinforced with UD Carbon Fiber
Extremely low weight, with same Campagnolo resistance and rigidity

Trajectory curve optimized for 11-29, 11-32 and 11-34 cassettes
Improved shifting performance having the upper pulley always working very close to each sprocket

3D-Embrace technology
Embrace evolved --→ from 2D to 3D
The inner mechanism allows rear derailleur to embrace more teeth per sprockets thanks to the advanced position of the upper pulley (2D). This allows to have really high values of torque resistance even on the 11 sprocket and to have the same chain length even changing cassette or chainrings
Unique position of the upper wheel pulley
The upper wheel moves to the same position (compared to the sprocket) independently from the chainring engaged. This is obtained with a gearwheel system which works better that the competitor’s spring system

One Rear Derailleur fits all
Unique medium size cage, 72,5mm

One Rear Derailleur fits all
Allows uniform performance between 11-29, 11-32 and 11-34 cassette

Larger Pulley Wheels
Larger, 12 tooth design
Longer, pronounced tooth design upper wheel
Rounded lower profile tooth design on lower wheel to improve fluidity in chain crossing scenarios
Allows for greater versatility in cassette compatibility and eliminates need to alter chain length
**Thinner internal cage width**
Larger gap between rear derailleur cage and spokes in rotation
More reliable design
Increased safety of rider and product
Easier adjustment of rear derailleur

**Upper body adjustment**

**Versatile Hanger System**
Standard or Direct hanger assembly allows perfect compatibility of rear derailleur with any frame: disc or rim, direct mount or classic hanger

**Travel limit screws on back of upper body**

**Upper body return spring**
Absorbs road vibration and protects integrity of rear derailleur

It does all of that at only 3 g more than the previous version (Super Record). Technically an increase...

Total weight 181 g
With 12 gears, the need for a wide range of cassettes is effectively eliminated as the extra gear allows for single tooth increments all the way to the 7th sprocket!

3 cassettes available: 11-29, 11-32 and 11-34:

- 11-12-13-14-15-16-17-19-21-23-26-29
- 11-12-13-14-15-16-17-19-22-25-29-34

Same cassette width: total compatibility with the current free-hub bodies and the current frames rear chainstays width, obtained with thinner sprockets.

The new cassettes are completely compatible with current freehub bodies and rear spacing remains unchanged, allowing the rider to continue with his or her same wheels and frame without a problem.
Extra gear in cassette without increasing width = reducing space between cogs as well as width of individual cogs

Machined aluminum spacers

guaranteed optimum spacing to ensure perfect alignment and shifting for the life of the transmission

Lay-out with the last 2 triplets in monolithic steel

Maximum stiffness in the biggest sprockets

An extra gear makes for more efficient gearing with less gaps

Technical treatment on the sprocket surface

Increasing the sprocket life via chemical intervention

Metric development remains linear
CRANKSETS
Smoother, more aerodynamic design

Advanced Campagnolo Carbon Technology
- New and advanced carbon layup
- Unidirectional carbon finish
- Hollow carbon construction
- Aggressive weight with no compromises in terms of stiffness, reactivity or reliability

Q factor unvaried: 145.5 mm

Ultra torque titanium axle
- Closure on left crank

CULT™ ceramic bearings

Improved 4 arm spider design:
- Optimized bolt circle diameter: 8 bolt design locates bolts in perfect position for each independent chainring
- Increased stiffness, rigidity and as a consequence reactivity
- Optimized component integrity and reliability
- 112 mm + 145 mm
Structural rigidity improved via added support material on larger chainring

Reinforced “brace” adds structural integrity to component where highest torque applied

Internally developed hard anodization process

Increases integrity and longevity of component

One crankset fits all:

50/34
52/36
53/39

Symmetrical turning on the inner chainring teeth

Increased versatility and lower friction in situations of extreme chain crossing

Available in 4 lengths:

165, 170, 172.5, 175

Chainring combination specific shifting designs

Differing number and location of pins and shifting zones according to chainring combination

Tooth design specific to chainring combination

Ensures optimum location of shift zones during pedal stroke

Considers differing diameter between standards
Incorporating an additional gear into the same space presented the Campy Tech lab with a challenge as an additional gear added without widening rear spacing meant that both cogs and chain would need to be slimmer.

The new 12-speed chain, while thinner and lighter, engages quicker and maintains the exact same durability of its 11-speed predecessor.
BRAKES

SUPER RECORD™

RECORD™
**Traditional rim**

New aerodynamic design

Smooth contours

**New aerodynamic design**

Overall form more coherent with aero frames

**Compatibility with tires up to 28mm in width**

Perfect for both C7 and C19 inner width rims

**Lever Movement on bearings**

Increased smoothness

Aids in modularity

**Traditional rim**

Brake shoe with exclusive attach / release system for brake pads

**Direct Mount**

Increased rigidity thanks to Campagnolo direct mount brace solution

ease of build thanks to same brace

integrity of both brake and frame maintained thanks to brace (alternative solutions push frames open)
Building on the backs of the fantastic H11 Ergopower commands, which ushered in a new level of personalized ergonomy and control, the new Super Record and Record commands incorporate new advancements to ensure they earn their top-level standing.

As with H11 the new Ergopowers are only 8mm taller than their rim brake counterparts, offering an additional hand position without altering ergonomy or ruining the finely crafted aesthetics of the component.

Master cylinder: this low profile is made possible thanks to a fantastic design for the master cylinder

- COMPACT
- Vertical position for optimum bleeding and functionality
- Bleeding port on top extremity
- Single cylinder design (same for right and left)

Campagnolo, never being content on leaving good enough alone, strives to make great better and in doing so has improved upon ergonomy even further by incorporating a new form to the brake lever. Internal studies showed that this new form optimized access to the brake lever for all hand forms and sizes from the drops and made for a safer hand position when engaging the lever.

New forms for the upshifting levers

- Larger and easier to find
- Externally oriented for easy reach

New forms for the upshifting levers

- Profiled to match perfectly with the contours of the brake lever
New forms for the downshifting lever

Easier location of commands during even the most demanding and extreme efforts.

AMS – Adjustable Modulation System (for Super Record and Record):

Complete customization
Just as with the H11 predecessor this customization applies not only to the ergonomics but also to the performance as the AMS setting allows for fine-tuning of the brakes performance and free stroke to meet each individual cyclist’s personal preference.

Brake lever adjustment dial allows for precise customization of lever’s initial position

New internals:
Specifically designed for new componentry
Indexing and throw specific to 12 speed
Improved leverage and reduced force design
Ultra Shift™ optimized for 12 Speed:

with one single movement, multiple downshift of up to 5 sprockets at a time [unique to Campagnolo] and upshifts of up to three allow for immediate and decisive changes in gearing when the course or the situation demands.

Freestroke elimination in upshifting

The starting point of the upshift now begins more towards the outside and as such eliminates useless freestroke, a characteristic unique to Campagnolo.

CABLES

New, super-low-friction cables and housing, make for easier upshifting that requires not only less force

Combined with new Ergopower™ internals + new fd and rd, smoothest shifting with minimal hand movement required

Not only extremely smooth but very durable performance
Forged aluminum for optimum system integrity and rigidity

No need for adaptors
- Front caliper for 160 mm disc
- Rear caliper for 160 or 140 mm disc, perfectly compatible with all flat mount frames

Calipers mount by use of only two screws

Two screw system:
- eliminates additional componentry
- fewer pieces = less weight

Two screw system:
- simpler construction increases integrity and performance
- all bolts visible for inspection, reducing risk and increasing safety

PISTONS:
- LIGHTWEIGHT AND POWERFUL 22 mm
  - phenolic resin construction
  - material specifically chosen for thermal insulation qualities
  - material specifically chosen for thermal insulation qualities
  - provide great power transfer from command to pad
DISC BRAKES

Magnetic Spring:
- guarantees uniform performance over time
- faster return

Brake Pads
- Organic resin pad compound:
  - extremely resistant to heat
  - provides uniform and consistent braking performance despite varied temperature or climatic conditions

Frame:
- high performance pad requires highly resistant frame
- special steel structure ensures system integrity under duress

Visible wear indicator:
- included in pad construction

Roll Back:
- ensures smooth and efficient pedaling

0.4mm distance guaranteed by Campagnolo is even with industry leader

Special shape:
- serves to simplify wheel change process by guiding disc into place
AFS Axial Fixing System

Rounded edge to ensure maximum safety

Fundamental key to extreme performance and safety

Campagnolo disc brake rotors:

dissipate heat in safe and uniform manner while guaranteeing performance in situations of heat that compromise the functionality and safety of competing products

Total Unit Extreme Heat Resistance:

performance and safety guaranteed

Resistance to heat Tests
Some of its principal functions include:

**MyGarage™:**
keep a detailed look over all of your cycling equipment, know exactly how many kilometers each and every component, wheel, chain or cassette has done and when it might be time to perform general maintenance to keep things functioning like new.

**MyEPS™:**
offers the possibility of interacting in a 360° manner with your Campagnolo® electronic drivetrain by connecting wirelessly with your EPS™ groupset in order to: fully customize commands and system performance, instantly download and install new firmware, offer real-time diagnostics for each and every individual EPS™ component.

**MySessions™:**
a sophisticated analytical tool that offers a unique look into your performance in addition to how it is affected by your use of components. Track each and every shift, know exactly where when and how you were riding a specific segment in addition to getting tips and suggestions to improve your efficiency on the bike all in conjunction with the innovative wifi capabilities of the V3 EPS™ interface.

**Campagnolo® World:**
stay up to date with all of the latest happenings in the world of Campagnolo®... race results, new product launches, events etc all in one app.

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**MyCampy™** App: your cycling world in the palm of your hand!

Campagnolo®, throughout its prestigious 80+ year history, has introduced numerous game changing technologies that have seen the greatest champions the world has known to victory. From the invention of the first quick release came the first 8, 9, 10, 11 and 12 speed transmissions, the first complete wheelset, the first tenso-structure wheel and a cornucopia of other products universally lauded for their quality and extreme performance characteristics. With so many fantastic products and unique performance solutions the one thing missing was not a physical component but rather a system that helps the cyclist manage his cycling componentry and certain aspects of his or her cycling in a complete and efficient manner. The new MyCampy™ App seeks to do just that ...and all in the palm of your hand...and all for free!

MyCampy™ App is your do-it-all companion that assists you in managing your cycling activity and cycling kit both in the saddle and off. From keeping track of your entire garage of bikes and the components built on each one to EPS™ performance analytics and complete customization of its performance, the new application is as much your own “neutral support” as well as your personal “Sporting Director” and much more. It allows you to interact in a 360° manner with your cycling “stable” and gain a more complete Campagnolo experience all from the comfort of your smartphone, pc or tablet.

Download MyCampy™ today and experience Campagnolo® like never before.
With the popular disc brake system and introduction of the 12-speed, Campagnolo Super Record™ EPS™ now ticks all the boxes on the market for maintaining its historic role as a benchmark in terms of performance and quality for more demanding cyclists.

**Super Record™ EPS® Rear Derailleur**

- **HIGH TORQUE, HIGH DRIVE RATIO MOTORS** - SPECIAL T.I.N.-TREATMENT - FRONT PLATE AND CAGE IN CARBON FIBRE - MULTI-SHIFTING™ TECHNOLOGY - POSITION SENSOR - LOWER BODY IN MONOLITHIC CARBON POWDER TECHNOPOLYMER - UPPER BODY IN ALUMINIUM - EXCLUSIVE “UNLOCK SYSTEM™” - 100% WATERPROOF

**Super Record™ EPS® Front Derailleur**

- **SPECIAL CAGE DESIGN - FRONT DERAILLEUR BODY IN MONOLITHIC CARBON TECHNOPOLYMER - POSITION SENSOR - HIGH TORQUE, HIGH DRIVE RATIO MOTORS - 100% WATERPROOF - CSD (CHAIN SECURITY DEVICE)**

**DTI® EPS® V4 Interface**

- DIALOUGE WITH “MYCAMPY” APP: wireless system to communicate with MyCampy® App by PC / Notebook / Tablet / Smartphone (BTLE), which allows the EPS groupset holder to personalize its own settings - EASY ACCESS TO THE CHARGING PORT - “ZERO SETTING” AND “RIDE SETTING” - LED RESIDUAL 2 VERSIONS AVAILABLE: EXTERNAL (131 g) INTERNAL (in handlebar or frame)

**Super Record™ Chain**

- ULTRA-LINK® CHAIN LINK CONNECTING SYSTEM - ULTRA-LINK® CHAIN LINKS: designed to provide maximum performance to Campagnolo transmissions: longer life for chainrings and sprockets, maximum efficiency in power transmission.

**Super Record™ Cassette**

- ULTRA-SHIFT™ TEETH DESIGN - ULTRA-SHIFT™ SYNCHRONIZATION - LAST TWO TRIPLET MACHINED FROM MONOLITHIC STEEL FOR STIFFER STRUCTURE, LOWER WEIGHT AND PRECISE SHIFTING - CHAIN RETENTION TEETH ON 12TH SPROCKET

**Super Record™ Crankset**

- FULL COMPATIBILITY WITH DISC AND RIM BRAKE FRAMES - Q-FACTOR MAINTAINED AT 145,5 mm - NEW CHAINRINGS - ULTRA-TORQUE™ AXLE - TITANIUM AXLE AND REVERSE THREAD TITANIUM FIXING BOLT - OPTIMIZED UPSHIFTING PINS FOR EACH CHAINRING COMBINATION - HOLLOW CRANKS AND SPIDER ARMS WITH ULTRA-HOLLOW™ TECHNOLOGY - CULT™ TECHNOLOGY - 8 BOLT RETENTION DESIGN INCREASES EFFICIENCY - CAMPAGNOLO® ULTRA-TORQUE™ BB CUPS REQUIRED - REINFORCEMENT BRACE FOR INCREASED STIFFNESS IN AREAS OF HIGHEST TORQUE APPLICATION

**Campagnolo® Caliper**

- FLAT MOUNT STANDARD - AVAILABLE CALIPERS: 160 mm FRONT (123 g PADS INCLUDED), 140 mm AND 160 mm (115 g / 119 g PADS INCLUDED) - ADAPTER FOR USE ON 140 mm FRONT - 22 mm PISTON WIDTH IN EVERY CALIPER - INTEGRATED MAGNETIC SPRING ON PISTON - 0.4 – 0.6 mm ROLL-BACK (RETURN) - PADS WITH WEAR LIMIT INDICATOR - ROUNDED EDGES ON THE PAD - ANTI VIBRATION METAL SHEET - CLEANER BIKE DESIGN - FAST AND SAFE ASSEMBLY - RETURN SPRING BETWEEN THE PADS - UNIQUE BLEND WITH ORGANIC DRY/WET RESIN

**CAMPAGNOLO® D3 Rotor**

- COMPATIBLE WITH CL / AFS HUBS - ROUNDED EXTERNAL EDGE - TWO DIMENSIONS AVAILABLE: 140 mm (99 g) AND 160 mm (120 g) - HIGH HEAT RESISTANCE - DIFFERENT QUANTITY OF SPOKES PER EACH DIMENSION - RIVET CONNECTION ENGINEERED TO ATTAIN SAFE DISTANCE BETWEEN ROTOR AND CALIPER, PROMOTING EFFICIENT COOLING UNDER STRESS - MULTI-DOME TECHNOLOGY
Super Record™ EPS® Rim Brake, the feather in the cap of Campagnolo® innovation thanks to the technologies, materials and expertise behind the design of this groupset, consolidates its benchmark role by moving up to a 12-speed. This very popular groupset, winner of the Giro d’Italia, the Vuelta, the World Championships and many other races on the World Tour circuit, is now available in a 12-speed option with its V4 version in Power Unit electronic components and interface. The groupset has been redesigned to adapt perfectly to the new 12-speed technological frontier and to the 11-29 and 11-32 cassette combinations introduced in the mechanical version.

**Super Record™ EPS® Rear Derailleur**
- High torque, high drive ratio motors - Special T.I.N.™ Treatment - Front plate and cage in Carbon fibre - Multi-Shifting™ technology - Position Sensor - Lower body in Monolithic Carbon powder Technopolymer - Upper body in Aluminium - Exclusive "Unlock System" - 100% Waterproof

**Super Record™ EPS® Front Derailleur**
- Special cage design - Front derailleur body in Monolithic Carbon Technopolymer - Position Sensor - High torque, high drive ratio motors - 100% Waterproof - CSD™ (Chain Security Device)

**DTI™ EPS® V4 Interface**
- Dialogue with "MyCampy" App: wireless system to communicate with "MyCampy" App by PC / Notebook / Tablet / Smartphone (BTLE), which allows the EPS groupset holder to personalize its own settings - Easy access to the charging port - "Zero setting" and "Ride setting" - LED RGB - Two versions available: external 133 g, internal 133 g (on handlebar or frame)

**Super Record™ Chain**
- Ultra-Link™ Chain Link Connecting System - Ultra-Link™ Chain Links: designed to provide maximum performance to Campagnolo® transmissions; longer life for chainrings and sprockets, maximum efficiency in power transmission.

**Super Record™ Cassette**
- Ultra-Shift™ Teeth Design - Ultra-Shift™ Synchronization - Last two triplets machined from Monolithic steel for Stiffer Structure, Lower Weight and Precise Shifting - Chain Retention Teeth on 12th Sprocket

**Super Record™ Crankset**
- Full compatibility with Disc and Rim Brake Frames - Q-Factor maintained at 142.5 mm - New Chainrings - Ultra-Torque™ Axle - Titanium axle and reverse thread titanium fixing bolt - Optimized upshifting pins for each chaining combination - Hollow Cranks and Spider arms with Ultra-Hollow™ Technology - Cult™ Technology - 8 Bolt Retention Design increases efficiency - Campagnolo® Ultra-Torque™ BB Cups Required - Reinforcement brace for increased stiffness in areas of highest torque application

**Super Record™ Brakes**
- Movement of levers on bearing - Special Compound - Exclusive brake pad coupling/uncoupling system - Dual Pivot Brakes - New Front Lever Design for Maximum Aerodynamic Penetration

**CAMPAGNOLO® Direct Mount Brake**
- Campagnolo® Brake Shoe Standard - Fast Assembly - Fast Adjustments - Maximum Compatibility - New Front Lever Design for Maximum Aerodynamic Penetration - Rigid Rear Structural Brace for Powerful, Safe Braking

**Super Record™ EPS® Ergopower™ Controls**
- Carbon fibre brake lever with unidirectional finish - One lever - One action: each lever of the command set has its own distinct function. This means absolute certainty of using the right control in all conditions (winter temperatures and gloves, poor road conditions etc.), eliminating the risk of error.
- 100% WATER-PROOF: all control components are built to operate in any weather conditions in compliance with the IP67 standard.
- Mode Button: the "Mode" buttons allow the user to check battery charge, make fine adjustments to the rear or front derailleur - even in the middle of a race (with the "ride setting" procedure), and set the zero position of the rear and front derailleur ("zero setting" procedure).
- E-ergonom: the new lower position of the lever 3 ensures easier access from all riding positions allowing the athlete to shift easily from the hoods or the drops.
- Multi-Dome Tech™: the 5-dome technology perfected by Campy Tech Lab® together with Campagnolo® athletes has made it possible to strike the perfect balance between operating force and tactile shift feedback. It also eliminates the possibility of unintentionally shifting the rear or front derailleur.

**GROUPSETS® EPS**
- 12/2 Speed

**GROUPSETS**
The new Super Record™ 12x2 Speed Disc Brake groupset is Campagnolo’s highest expression of technology and evolution. It is geared towards riders who want to equip their bicycle with the best the market offers in terms of performance and distinctiveness. The new groupset is presented on the market with an innovative rear derailleur designed with 3D Embrace technology that enables the chain to maintain the highest level of traction, even on the smallest sprockets. The Disc Brake technology developed by Campagnolo ensures that the Super Record groupset has the greatest braking force and modulability possible.

CAMPAGNOLO® CALIPER
FLAT MOUNT STANDARD - AVAILABLE CALIPERS: 160 mm FRONT (123 g PADS INCLUDED), 140 mm AND 160 mm (115 g / 119 g PADS INCLUDED) - ADAPTER FOR USE ON 140 mm FRONT - 22 mm PISTON WIDTH IN EVERY CALIPER - INTEGRATED MAGNETIC SPRING ON PISTON - 0.4 – 0.6 mm ROLL-BACK (RETURN) - PADS WITH WEAR LIMIT INDICATOR - ROUNDED EDGES ON THE PAD - ANTI VIBRATION METAL SHEET - CLEANER BIKE DESIGN - FAST AND SAFE ASSEMBLY - RETURN SPRING BETWEEN THE PADS - UNIQUE BLEND WITH ORGANIC DRY/WET RESIN

SUPER RECORD™ CRANKSET
FULL COMPATIBILITY WITH DISC AND RIM BRAKE FRAMES - Q-FACTOR MAINTAINED AT 142.5 mm - NEW CHAINRINGS - ULTRA-TORQUE™ AXLE - TITANIUM AXLE AND REVERSE THREAD TITANIUM FIXING BOLT - OPTIMIZED UPSHIFTING PINS FOR EACH CHAINRING COMBINATION - HOLLOW CRANKS AND SPIDER ARMS WITH ULTRA-LOW™ TECHNOLOGY - CULT™ TECHNOLOGY - 8 BOLT RETENTION DESIGN INCREASES EFFICIENCY - CAMPAGNOLO® ULTRA-TORQUE™ BB CUPS REQUIRED - REINFORCEMENT BRACE FOR INCREASED STIFFNESS IN AREAS OF HIGHEST TORQUE APPLICATION

SUPER RECORD™ FRONT DERAILLEUR
SPECIAL INNER CAGE DESIGN - OUTER SEMI-CAGE IN MONOCOQUE CARBON - CSD (CHAIN SECURITY DEVICE) - DERAILLEUR CLAMP - DUAL POSITION CABLE CABLE ALLOWING FOR VERSATILE CABLE POSITION AND BETTER TIRE CLEARANCE - SPLIT CONNECTING ROD FOR SMOOTH DERAILING

SUPER RECORD™ REAR DERAILLEUR
UPPER PULLEY WHEELS WITH LONGER TEETH - LOWER PULLEY WHEELS WITH ROUNDED TEETH - 3D EMBRACE TECHNOLOGY® - CARBON FIBER CASE CONSTRUCTION - PARALLELISM WITH TECHNOPOLYMER EXTERNAL CONNECTING ROD WITH UD FINISH (UNIDIRECTIONAL) - TITANIUM REAR DERAILLEUR FIXING SCREW - 12-TOOTH PULLEY WHEELS - JOINT FOR MOUNTING ON STANDARD OR DIRECT MOUNT DROP-OUTS - COMPATIBLE WITH SPROCKET SETS 11-29, 11-32, 11-36

SUPER RECORD™ CHAIN
ULTRA-LINK™ CHAIN LINK CONNECTING SYSTEM - ULTRA-LINK™ CHAIN LINKS: designed to provide maximum performance to Campagnolo® transmissions: longer life for chainrings and sprockets, maximum efficiency in power transmission.

SUPER RECORD™ DB ERGOPower™ CONTROLS
CARBON FIBER BRAKE LEVER WITH UNIDIRECTIONAL FINISH - NEW ERGONOMICS OF THE ERGOPower™ BODY - NEW BRAKE LEVER ERGONOMICS - BRAKE LEVER WITH DOUBLE CURVE - AMS™ ADJUSTMENT (ADJUSTABLE MODULATION SYSTEM) - REACH ADJUSTMENT - HYDRAULIC MASTER CYLINDER - BLEEDING PORT ON THE TOP OF THE ERGOPower™ - ONE LEVER ONE ACTION - VARI-CUSHION™ BRAKE LEVER HOODS WITH VARIABLE DENSITY AND SURFACE FINISHES - ULTRA-SHIFT™ FUNCTION ALLOWS FOR MULTIPLE SHIFTING AND GREATER CONTROL FOR RACING - DERAILLEUR CABLE ADJUSTING BARREL

CAMPAGNOLO® ROTOR 03
COMPATIBLE WITH CL / AFS HUBS - ROUNDED EXTERNAL EDGE - TWO DIMENSIONS AVAILABLE: 140 mm (99 g) AND 160 mm (120 g) - HIGH HEAT RESISTANCE - DIFFERENT QUANTITY OF SPOKES PER EACH DIMENSION - RIVET CONNECTION ENGINEERED TO ATTAIN SAFE DISTANCE BETWEEN ROTOR AND CALIPER, PROMOTING EFFICIENT COOLING UNDER STRESS - SEMI-FLOATING TECHNOLOGY

SUPER RECORD™ CASSETTE
ULTRA-SHIFT™ TEETH DESIGN - ULTRA-SHIFT™ SYNCHRONIZATION - LAST TWO TRIPLET MACHINED FROM MONOLITHIC STEEL FOR STIFFER STRUCTURE, LOWER WEIGHT AND PRECISE SHIFTING - CHAIN RETENTION TEETH ON 12TH SPROCKET - SPROCKET SETS AVAILABLE: 11-29, 11-32, 11-34 (NEW)
The Super Record™ 12x2 Speed Rim Brake groupset is the highest expression of the prestigious Italian brand’s technology and evolution. It is meant for those who want to fit their bicycle with the best the market has in terms of performance and distinction. The drive to improve what is already considered a reference point results in every single detail being tended to, including the most minute. The Super Record groupset is both extremely lightweight and very sturdy. This groupset is the crowned jewel of Campagnolo® innovation and the technologies, material and expertise that the groupset is made with place it in a category apart.

### SUPER RECORD® FRONT DERAILEUR

- Special Inner Cage Design - Outer Semi-Cage in Monococque Carbon - CSD (Chain Security Device) - Deraileur Clamp - Dual Position Cable Closure Allows for Versatile Cable Position and Better Tire Clearance - Split Connecting Rod for Smooth Derauling

### SUPER RECORD® REAR DERAILEUR

- Upper Pulley Wheels with Longer Teeth - Lower Pulley Wheels with Rounded Teeth - 3D Embrace Technology® - Carbon Fibre Cage Construction - Parallelogram with Technopolymer External Connecting Rod with UD Finish (Unidirectional) - Titanium Rear Deraileur Fixings Screw - 12-Tooth Pulley Wheels - Joint for Mounting on Standard or Direct Mount Drop-Outs - Compatible with Sprocket Sets 11-29, 11-32, 11-36

### SUPER RECORD® CRANKSET

- Full Compatibility with Disc and Rim Brake Frames - Q-Factor Maintained at 145.5 mm - New Chainrings - Ultra-Torque® Axle - Titanium Axle and Reverse Thread Titanium Fixing Bolt - Optimized Upshifting Pins for Each Chainring Combination - Hallow Cranks and Spider Arms with Ultra-Hollow™ Technology - Cult™ Technology - 8 Bolt Retention Design Increases Efficiency - Campagnolo® Ultra-Torque™ BB Cups Required - Reinforcement Brace for Increased Stiffness in Areas of Highest Torque Application

### SUPER RECORD® CASSETTE


### SUPER RECORD® BRAKES

- Movement of Levers on Bearing - Special Compound - Exclusive Brake PAD Coupling/Uncoupling System - Dual Pivot Brakes - New Front Lever Design for Maximum Aerodynamic Penetration

### CAMPAIGNOLO® DIRECT MOUNT BRAKE

- Campagnolo® Brake Shoe Standard - Fast Assembly - Fast Adjustments - Maximum Compatibility - New Front Lever Design for Maximum Aerodynamic Penetration - Rigid Rear Structural Brace for Powerful, Safe Braking - *Weight of one brake

### SUPER RECORD® ERGOPower® Controls

- Carbon Fibre Brake Lever with Unidirectional Finish - Ultra-Shift™ Ergonomics: Safe grip on handlebars in all positions and faster, more precise command on levers - Vari-Cushion™ Brake Lever Hood with Variable Density and Surface Finishes: Natural silicone material with differentiated areas to follow the grip of the 1st and 2nd finger. The special design drains off water keeping the support cover dry and increasing grip. Internal weave to create a variable thickness that guarantees maximum comfort. Ultra-Shift™ Function Allows for Multiple Shifting and Greater Control for Racing: Campagnolo® offers the only mechanical groupset available with the capability of shifting multiple gears (up to 5 sprockets). Multishifting allows the rider to react immediately to rapid changes in the course or necessary gearing. Deraileur Cable Adjusting Barrel: enables the tension of the deraileur cable to be adjusted perfectly, slashing adjustment time. Double Curvature Brake Lever: allows you to engage and modulate the brake safely from any hand position. Custom Ergonomics Thanks to Adjustable Brake Lever Position

### SUPER RECORD® CHAIN

- Ultra-LINK® Chain Connecting System - Ultra-LINK® Chain Links: designed to provide maximum performance to Campagnolo® transmissions: longer life for chainrings and sprockets, maximum efficiency in power transmission.

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Super Record® Rear Derailleur</td>
<td>181 g</td>
</tr>
<tr>
<td>Super Record® Crankset</td>
<td>618 g</td>
</tr>
<tr>
<td>Super Record® Cassette</td>
<td>266 g</td>
</tr>
<tr>
<td>Super Record® Brakes</td>
<td>311 g</td>
</tr>
<tr>
<td>Super Record® Chain</td>
<td>220 g</td>
</tr>
<tr>
<td>Super Record® Ergopower®</td>
<td>339 g</td>
</tr>
<tr>
<td>Campagnolo® Direct Mount</td>
<td>168 g</td>
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</tbody>
</table>

*Weight of one brake
Campagnolo’s evolution is relentless, and the world of mechanical transmissions is about to change with the arrival of a new and sophisticated innovation: the 12-speed Record Disc Brake groupset. The twelfth sprocket heralds a new era for mechanical groupsets, allowing cyclists to achieve levels of versatility that have never been reached before, matched with Campagnolo’s typical quality and reliability. The design of the new Record™ 12x2 Speed groupset originated from a blank canvas, redesigning all components to improve their performance, while maintaining the same overall dimensions to retain full compatibility with the frames and wheels on the market.

**Record® Front Derailleur**
- Special inner cage design
- Aluminum outer semi-cage
- CSD (chain security device)
- Derailleur clamp - dual position cable closure allows for versatile cable position and better tire clearance
- Split connecting rod for smooth derailing

**Record® Rear Derailleur**
- Upper pulley wheels with longer teeth
- Lower pulley wheels with rounded teeth
- 3D embrace technology
- Lower body in monolithic technopolymer
- Carbon elements
- Aluminum front plate
- Parallelogram with technopolymer external connecting rod
- Joint for mounting on standard or direct mount drop-outs

**Record® Crankset**
- Full compatibility with disc and rim brake frames
- Q-factor maintained at 145.5 mm
- New chainring
- Optimized upshifting pins for each chainring combination
- 8 bolt retention design increases efficiency

**CAMPAGNOLO® Caliper**
- Flat mount standard
- Available calipers: 160 mm front (123 g pads included), 140 mm and 160 mm (115 g / 119 g pads included)
- Adapter for use on 140 mm front
- 22 mm piston width in every caliper
- Integrated magnetic spring on piston - 0.6 mm roll-back return - pads with wear limit indicator
- Rounded edges on the pad
- Anti vibration metal sheet
- Cleaner bike design
- Fast and safe assembly
- Return spring between the pads

**Super Record® Chain**
- Ultra-link™ chain link connecting system
- Ultra-link™ chain links: designed to provide maximum performance to Campagnolo® transmissions
- Longer life for chainrings and sprockets
- Maximum efficiency in power transmission

**Super Record® Cassette**
- Ultra-shift™ teeth design
- Ultra-shift™ synchronization
- Last two triplets machined from monolithic steel for stiffer structure, lower weight and precise shifting
- Chain retention teeth on 12th sprocket

**CAMPAGNOLO® 03 Rotor**
- Compatible with CL / AFS hubs
- Rounded external edge
- Two dimensions available: 140 mm (99 g) and 160 mm (120 g)
- High heat resistance
- Different quantity of spokes per each dimension
-untime’s connection engineered to attain safe distance between rotor and caliper, promoting efficient cooling under stress
- Semi-floating technology

**Super Record® Controls**
- Carbon fibre brake lever with unidirectional finish
- New ergonomicity of the ergopower® body
- New brake lever ergonomics
- Brake lever with double curve
- AMS® adjustment
- Adjustable modulation system
- Reach adjustment
- Hydraulic master cylinder
- Bleeding port on the top of the ergopower®
- One lever one action
- Vars cushion®
- Brake lever hoods with variable density and surface finishes
- Ultra-shift™ function allows for multiple shifting and greater control for racing
With the 12-speed Record™ groupset and Campagnolo® quality, satisfaction and victory are close at hand. With the twelfth sprocket, a new era begins. Enthusiasts will be able to gain unprecedented levels of versatility on their bikes along with the quality and reliability that Campagnolo is known for.

All of this combines with Campagnolo’s experience in Dual Pivot and Direct Mount brakes to offer powerful, modulable braking in any situation, including races, without compromising on practical brake assembly or cable tension adjustment.

**RECORD® FRONT DERAILEUR**

- SPECIAL INNER CAGE DESIGN - ALUMINUM OUTER SEMI-CAGE
- DERAILLEUR CLAMP - DUAL POSITION CABLE CLOSURE ALLOWS FOR VERSATILE CABLE POSITION AND BETTER TIRE CLEARANCE - SPLIT CONNECTING ROD FOR SMOOTH DERAILING
- ULTRA-LINK® CHAIN LINK CONNECTING SYSTEM
- UPPER PULLEY WHEELS WITH LONGER TEETH - LOWER PULLEY WHEELS WITH ROUNDED TEETH - 3D EMBRACE TECHNOLOGY® - LOWER BODY IN MONOLITHIC TECHNOPOLYMER WITH CARBON ELEMENTS - ALUMINUM FRONT PLATE - PARALLELOGRAM WITH TECHNOPOLYMER EXTERNAL CONNECTING ROD - JOINT FOR MOUNTING ON STANDARD OR DIRECT MOUNT DROP-OUTS - COMPATIBLE WITH SPROCKET SETS 11-29, 11-32, 11-34

**RECORD® CRANKSET**

- FULL COMPATIBILITY WITH DISC AND RIM BRAKE FRAMES - Q FACTOR MAINTAINED AT 145.5 mm - ULTRA-TORQUE® AXLE - NEW CHAINRINGS - OPTIMIZED UP-SHIFTING PINS FOR EACH CHAINRING COMBINATION - 8 BOLT RETENTION DESIGN INCREASES EFFICIENCY - CAMPAGNOLO® ULTRA-TORQUE® BB CUPS REQUIRED

**SUPER RECORD® CASSETTE**

- ULTRA-SHIFT® TEETH DESIGN - ULTRA-SHIFT® SYNCHRONIZATION - LAST TWO TRIPLETS MACHINED FROM MONOLITHIC STEEL FOR STIFFER STRUCTURE, LOWER WEIGHT AND PRECISE SHIFTING - CHAIN RETENTION TEETH ON 12TH SPROCKET - SPROCKET SETS AVAILABLE: 11-29, 11-32, 11-34 (NEW)

**RECORD® ERGOPOWER® CONTROLS**

- CARBON FIBRE BRAKE LEVER WITH UNIDIRECTIONAL FINISH - ULTRA-SHIFT® ERGONOMICS: safe grip on handlebars in all positions and faster, more precise command on levers - VARI-CUSHION® BRAKE LEVER HOODS WITH VARIABLE DENSITY AND SURFACE FINISHES: natural silicone material with differentiated areas to follow the grip of the 1st and 2nd finger. The special design drains off water keeping the support cover dry and increasing grip. Internal weave to create a variable thickness that guarantees maximum comfort.
- ULTRA-SHIFT® FUNCTION ALLOWS FOR MULTIPLE SHIFTING AND GREATER CONTROL FOR RACING: Campagnolo® offers the only mechanical groupset available with the capability of shifting multiple gears (up to 5 sprockets). Multi-shifting allows the rider to react immediately to rapid changes in the course or necessary gearing.
- DERAILLEUR CABLE ADJUSTING BARREL: enables the tension of the derailleur cable to be adjusted perfectly, slashing adjustment time.
- DOUBLE CURVATURE BRAKE LEVER: allows you to engage and modulate CUSTOM ERGONOMICS THANKS TO ADJUSTABLE BRAKE LEVER POSITION
The Chorus™ DB 12-speed groupset is available with the specific 48/32 and 11-34 combinations, suitable for those who spend hours and hours on the saddle on mixed terrain, while maintaining the racing performance guaranteed by every Campagnolo groupset.

As per tradition, the use of different materials and consequent little additional weight, together with a rear derailleur redesigned to house larger cassettes are the main elements that make the Chorus™ DB different from the Super Record™ and Record™ groupsets.

CHORUS™ CRANKSET
FULL COMPATIBILITY WITH DISC AND RIM BRAKE FRAMES - Q-FACTOR MAINTAINED AT 142.5 mm - ULTRA-TORQUE™ AXLE - NEW CHAINRINGS - OPTIMIZED UPGRADE PINS FOR EACH CHAINRING COMBINATION - 8 BOLT RETENTION DESIGN INCREASES EFFICIENCY - CAMPAGNOLO® ULTRA-TORQUE™ 88 CUPS REQUIRED

CHORUS™ FRONT DERAILEUR
SPECIAL INNER CAGE DESIGN - ALUMINUM OUTER SEMI-CAGE - CSD ID (CHAIN SECURITY DEVICE) - DERRAILLEUR CLAMP - DUAL POSITION CABLE CLOSURE ALLOWS FOR VERSATILE CABLE POSITION AND BETTER TIRE CLEARANCE - SPLIT CONNECTING ROD FOR SMOOTH DERAILING

CHORUS™ REAR DERAILEUR
UPPER PULLEY WHEELS WITH LONGER TEETH - LOWER PULLEY WHEELS WITH ROUNDED TEETH - 3D EMBRACE TECHNOLOGY™ - LOWER BODY IN MONOLITHIC TECHNOPOLYMER WITH CARBON ELEMENTS - ALUMINUM FRONT PLATE - PARALLELOGRAM WITH TECHNOPOLYMER EXTERNAL CONNECTING ROD - JOINT FOR MOUNTING ON STANDARD OR DIRECT MOUNT DROP-OUTS

CHORUS™ FRONT DERAILLEUR
87 g

CHORUS™ CRANKSET
728 g

CHORUS™ CHAIN
243 g

CHORUS™ REAR DERAILLEUR
220 g

CHORUS™ DB ERGOPOWER™ CONTROLS
488 g

CAMPAGNOLO® CALIPER
118 g

CAMPAGNOLO® ROTOR
99 g

CAMPAGNOLO® CASSETTE
310 g

The Chorus™ DB 12-speed groupset is available with the specific 48/32 and 11-34 combinations, suitable for those who spend hours and hours on the saddle on mixed terrain, while maintaining the racing performance guaranteed by every Campagnolo groupset.

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No compromises have been made in this extension of the characteristics and main advantages of Super Record™ and Record™ 12-speed groupsets to the Chorus™ 12-speed groupset. In addition to this, the Chorus™ model also comes with the brand new Ultra Torque™ 32/48 crankset, together with the new 34/50 and 36/52 chainring combinations.

Chorus™ 12-speed groupset: the best choice for those wanting typical Campagnolo quality, cutting-edge technologies and reliability, also for endurance cycling.
The Centaur® Rim Brake 11 speed groupset represents Campagnolo® continuous innovation and is a prime example of how top tier technology trickles down to permeate the entire range.

**Centaur® Rear Derailleur**
- 230 g
- Redesigned rear derailleur trajectory angle (45°)
- One rear derailleur available for every setup combination
- Pulley wheels with bushings
- Upper pulley wheel with longer teeth
- Lower pulley wheel with rounded teeth
- Upper and lower body in ultra-light technopolymer reinforced with glass fibre
- Limit screws positioned on the back of the upper body

**Centaur® Front Derailleur**
- 103 g
- Super Record®-influenced design
- One-piece steel cage
- Shaped outer semi-gag
- Improve the downshifting speed and chain control during upshifting
- New rod design

**Centaur® Ergopower® Controls**
- 373 g
- Aluminium brake lever - Redesigned right power-shift® mechanism
- Multiple upshifting (up to 3 gears)
- Ergonomic downshift lever position
- New lip introduced on the ergopower®-body
- Geometry specifically designed to optimize command/handlebar interface
- Hoods in silicon with vari-cushion® technology
- Left power-shift® mechanism compatible with Centaur® crankset
- Downward movement of the chain blocked at 1st action

**Centaur® Brakes**
- 325 g
- Forged aluminium solid brake arms
- Adjustable brake pads
- Special brake pad compound, reducing braking distance in both dry and wet conditions
- The most appreciated brake pads on the market
- *front and rear weight

**Centaur® Cassette**
- 291 g
- Specific cassettes developed with the “Campagnolo 11” layout with specific finishing
- Three cassette specs available: 11-32, 12-32, 11-29
- 11-32 cassette with the sprocket combination: 11-12-13-14-15-17-19-22-25-28-32

**Campagnolo 11® Chain**
- 256 g
- Wider link design
- The new design of the Campagnolo® 11® chain increases shifting performance and reduces the noise from chaining and sprocket engagement
- Ultra-link® chain connecting system: high strength chain connection
- Greater safety and longer chain life

**Centaur® Crankset**
- 875 g
- Four arm design
- Two chaining combinations: 52/36 and 50/34
- One single crank for both chaining combinations
- Optimized inner surface on both cranks
- Ultra-torque® axle
- Chainring inner design optimized per each combination
- Three crank lengths available: 170, 172.2 and 175 mm
- Campagnolo® Ultra-torque® BB cups required

**Direct® Direct Mount Brake**
- 183 g
- Universal brake shoe
- Aerodynamic design: the solid structure of the front and rear brake shoe lever allows for highly aerodynamic performance
- Fast assembly
- Fast adjustments: screws oriented in a direction that allows for the fastest adjustment while guaranteeing easy access to adjustment screws

Campagnolo’s initial offering comes as an affordable solution while guaranteeing performance generally associated with premium products.
The new **Centaur™** Rim Brake 11 speed groupset represents Campagnolo® continuous innovation and is a prime example of how top tier technology trickles down to permeate the entire range. Campagnolo® quality reliability and design available in a very versatile package, not only in regards to gearing but also thanks to its additional silver finish option, unique to Campagnolo®.

**CENTAUR™ REAR DERAILEUR**

REDENIZED REAR DERAILEUR TRAJECTORY ANGLE (45°) - ONE REAR DERAILEUR AVAILABLE FOR EVERY SETUP COMBINATION - PULLEY WHEELS WITH BUSHINGS - UPPER PULLEY WHEEL WITH LONGER TEETH - LOWER PULLEY WHEEL WITH ROUNDED TEETH - UPPER AND LOWER BODY IN ULTRA-LIGHT TECHNOPOLYMER REINFORCED WITH GLASS FIBRE - LIMIT SCREWS POSITIONED ON THE BACK OF THE UPPER BODY

**CENTAUR™ FRONT DERAILEUR**

SUPER RECORD®-INFLUENCED DESIGN - ONE-PIECE STEEL CAGE - SHAPED OUTER SEMI-GIG: IMPROVE THE DOWNSHIFTING SPEED AND CHAIN CONTROL DURING UPSHIFTING

NEW ROD DESIGN

**CENTAUR™ CASSETTE**

SPECIFIC CASSETTES DEVELOPED WITH THE "CAMPAGNOLO 11™" LAYOUT WITH SPECIFIC FINISHING

THREE CASSETTE SPECS AVAILABLE: 11-32, 12-32, 11-29

**CAMPAGNOLO 11™ CHAIN**

WIDER LINK DESIGN: THE NEW DESIGN OF THE CAMPAGNOLO® 11™ CHAIN INCREASES SHUFFLING PERFORMANCE AND REDUCES THE NOISE FROM CHAINRING AND SPROCKET ENGAGEMENT

ULTRA-LINK® CHAIN CONNECTING SYSTEM: HIGH STRENGTH CHAIN CONNECTION - GREATER SAFETY AND LONGER CHAIN LIFE

**CENTAUR™ ERGOPower™ CONTROLS**

ALUMINIUM BRAKE LEVER - REDESIGNED RIGHT POWER-SHIFT® MECHANISM - MULTIPLE UPSHIFTING UP TO 3 GEARS - ERGONOMIC DOWNSHIFT LEVER POSITION - NEW LP INTRODUCED ON THE ERGOPower®-BODY - GEOMETRY SPECIFICALLY DESIGNED TO OPTIMIZE COMMAND/HANDLEBAR INTERFACE - HOODS WITH GROOVED ZONES - HOODS IN SILICON WITH VARI-CUSHION® TECHNOLOGY - LEFT POWER-SHIFT® MECHANISM COMPATIBLE WITH CENTAUR™ CRANKSET - DOWNWARD MOVEMENT OF THE CHAIN BLOCKED AT 1ST ACTION

**CENTAUR™ CRANKSET**

FOUR ARM DESIGN - TWO CHAINRING COMBINATIONS: 52/36 AND 50/34 - ONE SINGLE CRANK FOR BOTH CHAINRING COMBINATIONS - OPTIMIZED INNER SURFACE ON BOTH CRANKS - ULTRA-TORQUE® AXLE - CHAINRING INNER DESIGN OPTIMIZED FOR EACH COMBINATION - THREE CRANK LENGTHS AVAILABLE: 170, 172.5 AND 175 mm - CAMPAGNOLO® ULTRA-TORQUE® BB CUPS REQUIRED

**CENTAUR™ BRAKES**

FORGED ALUMINIUM SOLID BRAKE ARMS - ADJUSTABLE BRAKE PADS - SPECIAL BRAKE PAD COMPOUND, REDUCING BRAKING DISTANCE IN BOTH DRY AND WET CONDITIONS - THE MOST APPRECIATED BRAKE PADS ON THE MARKET - *front and rear weight
<table>
<thead>
<tr>
<th>Category</th>
<th>Model</th>
<th>Type</th>
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<tbody>
<tr>
<td>AERO CARBON WHEELS</td>
<td>BORA* ULTRA* TT</td>
<td>Rim Brake</td>
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<td>BORA* W0 77</td>
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<td>BORA* W0 60</td>
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<tr>
<td></td>
<td>CALIMA**</td>
<td>Rim Brake</td>
</tr>
</tbody>
</table>
BORA™ WTO Project

Campagnolo® launches the new Wind Tunnel Optimized Bora™ Wheels

The Campy Tech Lab dedicated its energies towards pushing the limits of aerodynamic efficiency even further. The result of this task force’s labor comes in the form of the wheels Bora™ WTO 77, Bora™ WTO 60, Bora™ WTO 45 and the new Bora™ WTO 33 rim and disc brake.
Overall efficiency must be improved by reducing the energy requirement necessary to overcome three important factors:

- aerodynamic resistance
- rolling resistance
- weight/gradient

To Improve the aerodynamic efficiency of the Bora™:

creation of Campagnolo engineering task force wholly dedicated to creating the new aero standard

Wind effect is barely ever straightforward:

apparent wind must be accounted for

Athletes will encounter a myriad of different wind angles during any given ride:

<table>
<thead>
<tr>
<th>Probability of apparent wind direction [%]</th>
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</thead>
<tbody>
<tr>
<td>[22°-14°]</td>
</tr>
<tr>
<td>[13°-0°]</td>
</tr>
<tr>
<td>[4°+1°]</td>
</tr>
<tr>
<td>[0°+2°]</td>
</tr>
<tr>
<td>[1°+3°]</td>
</tr>
</tbody>
</table>

such a task saw the engineering team spending as many hours in the wind tunnel as in the office hence the moniker of WTO
Race courses aren’t typically straight.

Riders don’t maintain a perfect position.

Campagnolo engineers set about to account for all of these variables in what has come to represent perhaps the most comprehensive aerodynamic study ever performed by the company to produce wheels.

WTO Wind Tunnel Optimized for REAL WORLD CONDITIONS

Numerous real world tests performed on two different continents.

THROUGH: CFD and FEM analysis

the Campagnolo engineering team produced two aerodynamic profiles that confer the most efficient structure available on the market in terms of drag reduction.

Wind angle: 0°

Wind angle: 10°

Wind angle: 20°
Bora™ WTO 77 45 k/h

The Campagnolo engineering team produced two aerodynamic profiles that confer the most efficient structure available on the market in terms of drag reduction.

Bora™ WTO 77 55 k/h

The Campagnolo engineering team produced two aerodynamic profiles that confer the most efficient structure available on the market in terms of drag reduction.

Bora™ WTO rim shape at both 77 - 60 - 45 - 33 mm:

efficient to the point that it not only reduces drag, but at certain angles is capable of reducing it to the point of negative drag.

Aerodynamic Hubs:
Aluminum construction
follows the same design premise of the rim in that it must be aerodynamic in a versatile manner
slimmer towards the center and growing in width towards the flanges

Aerodynamic Spokes:
3D Aero profile
not merely flat but diamond shaped
efficient design that accounts for varied wind conditions

Reduced number of spokes:
16 spokes for Bora WTO 77 mm front wheel
18 spokes for Bora WTO 60, 45 and 33 mm Rim Brake front wheel
21 spokes for Bora WTO 45 mm Disc Brake front wheel
21/G3 spokes for Bora WTO 60, 45 and 33 mm rear wheel
24/G3 spokes for Bora WTO 60 and 33 mm Disc Brake
**Bora™ WTO 60, 45 and 33 with oversized drive side flange and G3™ spoke pattern**

The oversized flange allows for symmetric spoke angles which increase torsional rigidity and result in a more reactive wheel. The G3 spoke pattern incorporates twice as many spokes on the side of highest torque application. Doing so reduces the force applied to each single spoke and increases the rigidity of the overall wheel.

**19mm internal width:**

more efficient rim already called for a wider stance in general

**The 19mm internal width structure provided the multiple benefit of a better performing rim design:**

- better fit with the tire sizes (23, 25 and 28 mm)
- overall more efficient complete unit (tire + rim) tires take on more aerodynamic shape, rendering both the single component and complete unit more efficient

**Bora™ WTO 60, 45 and 33 USB™ Ceramic Bearings:**

Long lasting
Superior Performance

**Rolling resistance is also created where contact between tire and road occurs**

**Bora™ WTO 60, 45 and 33 CULT™ Ceramic Bearings:**

9 x more efficient than standard bearings
A carbon fiber, 2-WAY-FIT™ profile in order to offer the possibility to choose between the two most efficient solutions available is the best solution.

Contrary to popular belief, the tubular was the worst performer in terms of rolling resistance.

Optimized Construction for Optimum Performance

The lightweight yet extremely reliable performance of the Bora WTO wheels comes about thanks to optimizing the employment of extra carbon fiber only in areas where integrity and performance could be improved and likewise eliminating any material that wasn’t completely necessary to maintain the Campagnolo quality standard.

**Bora™ WTO 77:**

- Available only as a front wheel considering its specific use for TT and Triathlon
- Weighs an amazingly low 755 g
- AC3 braking surface
- Water transfer labels

**Bora™ WTO 60 Rim brake:**

- 688 g for the front and 859 g for the rear makes for a 1547 g total package
- AC3 braking surface

**Bora™ WTO 60 Disc brake:**

- 750 g for the front and 840 g for the rear makes for a 1590 g total package
- Water transfer labels

**Bora™ WTO 45 Rim brake:**

- 657 g for the front and 839 g for the rear makes for a 1496 g total package
- AC3 braking surface

**Bora™ WTO 45 Disc brake:**

- 708 g for the front and 812 g for the rear makes for a 1520 g total package
- Water transfer labels

**Bora™ WTO 33 Rim brake:**

- 593 g for the front and 795 g for the rear makes for a 1388 g total package
- AC3 braking surface

**Bora™ WTO 33 Disc brake:**

- 675 g for the front and 775 g for the rear makes for a 1450 g total package
- Water transfer labels
With the arrival of disc brakes into the ranks of not only the professional peloton but also amongst competitive and passionate cyclists all over the world, the demand for a disc brake wheelset truly worthy of the Campagnolo® name made the development of such a wheel a necessity.

As a result, Campagnolo® engineers have worked tirelessly to create wheels those will come to represent the same standard for quality and performance as its rim-brake counterpart. As disc brake transmissions become ever more popular, many brands have rushed to improvise disc brake wheelsets by simply taking the rims from their rim-brake offering and lacing them to disc brake hubs. Campagnolo® regards this as a compromise in performance, reliability and product integrity.

In fact, for the front wheel the braking forces on the disc side require an additional structural design. Just as occurs in the rear wheel, the asymmetric forces are combated by using the G3™ spoke design. The front wheel utilises the double spokes on the disc side. With the incorporation of Mega-G3™ spoke pattern, the hub manages the asymmetric forces generated by the disc brakes.
2-Way Fit™ technology makes it possible to mount either tubless or clincher tires on the same rim.

With 2-Way Fit™ Campagnolo® customers can decide on any given day to use either clincher or tubless tires as the wheel is perfectly compatible with both systems.

With no doubt tubeless tires are the future of road cycling. Apart from greater comfort, the advantages are many: using a tubeless tire you can exploit the greater smoothness due to the absence of friction between the tire and the tube.

And what if the tubeless tire has a puncture? The Campagnolo® 2-Way Fit™ system allows you to use a traditional inner tube by simply removing the hermetic closure valve to ride home with no problem.

The tubeless tire does not have an inner tube and consequently there is no risk of sudden deflation due to punctures.

The tubeless tire rolls more smoothly thanks to the absence of friction between tire and inner tube.

Scirocco Disc Brake wheel can be converted in a 2-Way Fit™ Ready. Only the Tubeless Easy (TL-Easy) tyres by Schwalbe Pro One and G-One have been tested and approved for the Tubeless Easy conversion with the Campagnolo 2-Way Fit™ Ready profile.
**AC3™ All Conditions Carbon Control**

Campagnolo® has developed the All Conditions Carbon Control, or AC3™ Technology. The introduction of the meticulously researched textured design of the rim brake area of the Bora™ wheels creates a surefooted stopping power that is reliable and potent no matter what the weather will throw at you.

**CULT™ Ceramic Ultimate Level Technology**

Technologically advanced superior quality ceramic bearings in addition to the precision machining of the cup/cone structure and absence of grease drastically reduce friction and increase the smoothness of the wheel by as much as 9 times when compared to standard bearings. An outstanding result achieved by using cutting-edge technologies of materials processing.

**USB™ Ceramic Ultra Smooth Bearings**

The hubs with USB™ (Ultra Smooth Bearings) ceramic bearings increase smoothness, decrease rolling resistance, reduce weight and reduce the need for maintenance. Comparative tests have shown that USB™ bearings are 50% smoother than standard bearings. Now improving your performance during the race will be easier.

**MoMag™**

What is MoMag?

A technology that offers several advantages to the structural integrity of the wheel as well as eliminating the need for rim tape. The name derives from "Mounting Magnet" system, shortened to MoMag™.

The nipples, once inserted inside the rim via the valve hole, are "guided" to the point of connection with the spoke by means of the magnet. This simple but ingenious system makes it possible to have a wheel without holes on the upper bridge, but with spokes tensioned by traditional nipples.

No holes on the rim means that the rim is uniform at every point, free from stress points or zones of weakness and, for the clincher profiles no rim tape is required, to the benefit of weight reduction. The advantages are clear: greater rim lifetime, greater resistance to fatigue, the possibility to give the spokes greater tension, and greater stiffness which, in terms of performance, mean greater reactivity and acceleration. The advantages also include quick and simple maintenance and spoke replacement.

**Spoke Antirotation System**

The Bora™, Shamal™, Zonda™ and Scirocco™ wheels feature a spoke antirotation system patented by Campagnolo® that raises spoke performance to an unprecedented level.

Campagnolo® studied a system that would keep the spokes always in the exact identical position. This means that the spokes do not rotate, so there is no loss of tension during use and the aerodynamic penetration is not compromised.
MEGA-G3™

G3™ geometry: we have reinvented the wheel ... not just its look.

Campagnolo® has developed an assembly architecture which, compared with a traditional wheel, makes it possible to improve energy transfer, reduce the stress on the spokes on the right and increase transverse rigidity. This is achieved because in G3™ geometry the right-hand side of the rear wheel is fitted with twice as many spokes as the left.

The results of G3™ system are truly extraordinary: better transfer of the driving torque, better lateral rigidity, reduction of the stress in the rear wheel spokes. And thanks to the G3™ system that compensates for the forces acting on the 2 sides of the wheel, there are no more wheel vibrations, even for heavier people.

In 2014 G3™ becomes Mega-G3™ thanks to the oversize flange and an increase in lateral and torsional stiffness results.

Rim Dynamic Balance™

The concept is simple and elegant: balance the weight of the gasket, with an item of similar weight placed on the exact opposite side.

For top aluminum models, this is obtained by a special operation on the section of the rim opposite the rim joint.

For carbon wheels the principle is the same, but applied using a different technology. When making carbon rims, the pieces of carbon fabric are aligned in such a manner that the resulting rim is always balanced.

CAMPAGNOLO® QUICK RELEASE

The Campagnolo® Quick Release is more than just a wheel retention system that acts as an axle. It is highly symbolic as it is the single piece from which the long and glorious history of Campagnolo® was born. The company’s objective of continuously innovating to improve the cycling experience started with the quick release and it remains a functional and necessary symbol to this creed even now. Maximum performance in terms of assembly/disassembly ease, weight and smoothness of the wheel without compromising safety in any way.

The patented Campagnolo® mechanism is the one that best meets these needs. The lever is positioned centrally with respect to the axis of the hub axle, i.e. in the best position to put both ends of the axle in traction without differences in load between the sides. The axle is in the form of a cam and applies the closure traction on the axis of the quick release.

Thanks to the cam axle closure, it is simple and intuitive to understand the force to be applied for correctly closing the quick release and, even more importantly, the cam creates a mechanical impediment to the opening of the release, making it extremely safe during road use.

The fork positioned symmetrically with respect to the sides of the lever and centrally with respect to the axis of the skewer, enables an even distribution of the loads and forces at each point of the skewer, thus avoiding critical breakage points and at the same perfect closure the fork of the frame and the wheel. The symmetry of the lever and the special shape of the cam make locking and releasing the wheel extremely easy, fluid, and safe. The new aerodynamic form, moreover, considerably improves the aerodynamic coefficient of the range of wheels dedicated to time trial disciplines.

CARBON WHEELS

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<th>Model</th>
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<tbody>
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<td>BORA® ULTRA™ TT</td>
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<td>BORA® WTO 77</td>
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<td>BORA® WTO 60</td>
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ALUMINIUM WHEELS

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<td>SHAMAL® ULTRA™</td>
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<td>ZONDA® Disc Brake</td>
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<td>ZONDA® Rim Brake</td>
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<td>SCIROCCO™</td>
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<td>CALIMA™</td>
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In order to leave you with absolutely no doubt as to the quality of the wheel purchased, Campagnolo® has implemented the Campagnolo® Identification Card (CIC) program. The CIC program sees a card that uniquely identifies each individual wheel and is manually compiled to guarantee that all tests have been done and that quality is guaranteed.

Only through in-depth inspection, both manual and digital, of each and every piece of every final product that leaves the premises can we be 100% sure of the exact same quality for each and every wheel that bears the Campagnolo® name.

The keyword for our products is: traceability.

If you find a little label affixed to Campagnolo® products, don’t remove it. This is because it is there to provide you with a guarantee that in the event of the ascertained defectiveness of a production batch your component or wheel will be traceable. All this because, faithful to its mission, Campagnolo® demands absolute perfection and safety for its customers.

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**Certilogo®**

Campagnolo® and Certilogo® against counterfeiting: a tangible answer that protects our clients’ safety and purchases.

Top-end Campagnolo® wheels are considered by the market and by aficionados to be reference products and as such are highly desirable. They have therefore also become appetizing to counterfeiters who have cloned some of our models (especially those in carbon fiber) releasing considerable numbers onto the international markets.

The wheel is a performance product, but also a safety component. This aspect means that those who purchase a fake product, while saving money on something that clearly costs much less than the going market price, puts their personal safety at great risk. The materials and production processes that together help to achieve a safe performing product are obviously not the same.

With the aim of fighting and combating these counterfeiters, Campagnolo® is the first in the cycling sector to have put in place, thanks to the support of Certilogo®, a control system that enables our clients to authenticate the product simply and immediately.

Starting with the products in the 2015 catalogue, each pair of Campagnolo® wheels in the Bora™ and Hyperon™ lines comes with an individual ID code (the Certilogo® Code or CLG Code) on a swing tag attached to a spoke on the wheel and, from July 2018, on an sticker to the rear wheel.

The Certilogo® Code [in both numerical and QR code] allows anyone, before or after purchase to check that the product is authentic. To authenticate Campagnolo® wheels, just visit www.certilogo.com, insert the CLG Code or download the Certilogo APP.

We suggest you keep the Campagnolo® Original Wheels tag even after product authentication for possible future use and, for wheels bought from July 2018 on, leaving the sticker with the Certilogo Code on the wheel.
AERO CARBON WHEELS

The efficient wheelset must overcome resistance that comes in three specific forms: aerodynamic resistance, rolling resistance and resistance related to weight and gradient. The BORA™ WTO Project has given the Campagnolo® engineers a wealth of knowledge that has put them in a position to produce the new standard in efficient racing wheels. The new AERODYNAMIC standard for performance carbon wheels has a new name: BORA™ WTO.

The WTO wheels have been optimized to ensure that every single part of their construction offers the most efficient form and structure. Not only a highly sophisticated and extremely aerodynamic form for the carbon fiber rim but also its hub and spokes make WTO the most efficient wheel available. If you are looking for the best in terms of aerodynamics and efficiency, look no further.
Since its introduction, the Bora™ Ultra™ TT has accompanied cyclists of the highest caliber in winning international medals in time trials. In 2017, despite such success, the Campagnolo® road lenticular wheel was innovated even further, improving upon its main characteristics of low weight and extreme stiffness. The new Bora™ Ultra™ TT in fact weighs nearly 111 g less than the previous model and is 8% stiffer than the stiffest competitor’s wheel. The Campy Tech Lab™ has focused additionally on creating a product that meets the needs of time trial bike braking systems and the results are impressive. The 2018 range saw the addition of the AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions.

The 2018 range saw the addition of the AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions. Bora™ has become the benchmark in the carbon race wheel sector for many reasons, including reactivity, handling, lightness and reliability. Still, it is the wind, or better said, the penetration of the wind that gives the wheel its name since aerodynamics is an essential part of its performance. With the Bora™ WTO (Wind Tunnel Optimized) project, the Campy Tech Lab dedicated all of its energy on further improving aerodynamic efficiency, pushing the boundaries once again.

Today, the result achieved by this task force is called the Bora™ WTO 77. Every element of this wheel was designed completely from scratch and it has become the fastest front wheel on the market.

WHEEL DEVELOPED FOR THE TIME TRIAL FRAME:
- extremely stiff structure further eliminates flex near the bottom bracket, namely where the rear brake is positioned on most time trial frames, thus avoiding any possible friction with the brake itself.
- FULL HIGH MODULUS CARBON RIM FOR TUBULAR

AC3™ (ALL CONDITIONS CARBON CONTROL) BRAKING SURFACE TECHNOLOGY:
- improves the braking performances on dry and, above all, on wet conditions.
- BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS:
  - the special blend increases the brake performance on both dry and wet surfaces without increasing the wear and tear on the pad or wheel.

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- BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS:
  - the special blend increases the brake performance on both dry and wet surfaces without increasing the wear and tear on the pad or wheel.
Campagnolo introduces its first aerodynamic disc brake wheel with a 60 mm profile, designed to appeal to cyclists with a love for speed. Its high profile can transfer all the aerodynamic advantages acquired from our research and development study to the road. The wheel features unidirectional carbon rims with a rounded-profile optimised in the wind tunnel, new aerodynamic aluminium hubs and the ceramic USB cup-and-cone bearing system. The profile of the rim, which has an internal width of 19 mm, makes a perfect pairing with 23, 25 and 28 mm tyres. Thanks to 2-Way Fit technology, Campagnolo guarantees complete compatibility with both clincher and tubeless tyres. Available versions: dark label, Campagnolo FW hub, HG or XDR.

Bora™ W To 60 DB: made for winning in sprint finishes, circuit races, time trials and triathlons.

**REAR WHEEL**
- Dark label

**FRONT WHEEL**
- Dark label

**WIND TUNNEL OPTIMIZED 3D SPOKE DESIGN:**
- Aerodynamic shape from all angles.

**EXCLUSIVE 03° SPOKE PATTERN:**
- Perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. 03° eliminates vibrations even with "heavy" cyclists.

**USB™ ULTRA SMOOTH BEARINGS:**
- Top quality ceramic bearings create a perfectly smooth, resistant and maintenance free rolling.

**ADJUSTING LOCKING WITH MICRO-SETTING:**
- For precision hub adjustment.

**ALUMINIUM HUB SHELL:**
- Permits an improved torque transfer across hub during the braking phase.

**NEW FLANGE ROAD DESIGN:**
- Allows integration with the AF5 meter on the braking force, transmission side.

**AVAILABLE FW BODIES:**
- Campagnolo - HG - XDR

**USB™ CERAMIC BALL BEARINGS:**
- Reduces friction, provides greater smoothness, and maintains performance over time.

**CUP AND CONE BEARINGS:**
- Easy bearing adjustment.

**ALUMINIUM HUB STRUCTURE, LIGHT AND EXTREMELY RIGID AND AERODYNAMIC:**
- Optimised in the wind tunnel and designed for optimal rigidity and weight.

**ALUMINIUM AXLE:**
- Reduces the weight of the wheel.

**OVERSIZED FLANGE:**
- Greater torsional stiffness and greater reactivity.

With the new Bora™ WTO 60, Campagnolo has focused on producing the most efficient wheels possible in terms of decreasing rolling resistance as the cyclist moves and maximising aerodynamic efficiency. The acronym WTO - WIND TUNNEL OPTIMIZED - calls to mind the environment that the team of Campy Tech Lab engineers worked in to meet these challenging project objectives.

The new Bora™ WTO 60 wheels feature exclusive design characteristics that establish new standards in aerodynamic efficiency. Directly from the wind tunnel to the market, the pair of Bora™ WTO 60 wheels is destined to become the necessary choice every time a cyclist faces a route that requires average speeds of more than 60 km/h.

**FRONT WHEEL**
- Dark label

**REAR WHEEL**
- Bright label

**EXTREMELY AERODYNAMIC FULL CARBON FIBER RIM:**
- 26 mm WIDE, COMPATIBLE WITH BOTH TUBELESS AND CLINCHER TIRES. Wind Tunnel Optimized to be extremely efficient. Campagnolo construction to ensure reactivity and reliability.

**RDB™ RIM DYNAMIC BALANCE:**
- When manufacturing carbon rims, the carbon fibre is aligned in such a manner that the resulting rim is perfectly balanced. 100% HIGH MODULOUS CARBON FIBER: the unique, hand made construction allows Campagnolo staff to orient each and every fiber in accordance to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulus and oriented in a way to ensure optimal rigidity and weight. Robust, reliable and reactive the Bora wheels are also lightweight. No paint or clear coat needed as the rim’s anti UV resin leaves a naturally pristine finish.

**SELF-LOCKING NIPPLES:**
- It allows to maintain the right tension of the spokes and does not require any maintenance.

**ALUMINIUM HUB SHELL:**
- Eliminates vibrations even with "heavy" cyclists.

**NEW FLANGE ROAD DESIGN:**
- Allows integration with the AF5 meter on the braking force, transmission side.

**AVAILABLE FW BODIES:**
- Campagnolo - HG - XDR

**USB™ CERAMIC BALL BEARINGS:**
- Reduces friction, provides greater smoothness, and maintains performance over time.

**CUP AND CONE BEARINGS:**
- Easy bearing adjustment.

**ALUMINIUM HUB STRUCTURE, LIGHT AND EXTREMELY RIGID AND AERODYNAMIC:**
- Optimised in the wind tunnel and designed for optimal rigidity and weight.

**ALUMINIUM AXLE:**
- Reduces the weight of the wheel.

**OVERSIZED FLANGE:**
- Greater torsional stiffness and greater reactivity.

2-Way Fit™, 1590 g
2-Way Fit™, 1547 g

**REAR WHEEL**
- Bright label

**FRONT WHEEL**
- Dark label

**EXTREMELY AERODYNAMIC FULL CARBON FIBER RIM:**
- 25 mm WIDE, COMPATIBLE WITH BOTH TUBELESS AND CLINCHER TIRES. Wind Tunnel Optimized to be extremely efficient. Campagnolo construction to ensure reactivity and reliability.

**RDB™ RIM DYNAMIC BALANCE:**
- When manufacturing carbon rims, the carbon fibre is aligned in such a manner that the resulting rim is perfectly balanced. 100% HIGH MODULOUS CARBON FIBER: the unique, hand made construction allows Campagnolo staff to orient each and every fiber in accordance to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulus and oriented in a way to ensure optimal rigidity and weight. Robust, reliable and reactive the Bora wheels are also lightweight. No paint or clear coat needed as the rim’s anti UV resin leaves a naturally pristine finish.

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- It allows to maintain the right tension of the spokes and does not require any maintenance.

**ALUMINIUM HUB SHELL:**
- Eliminates vibrations even with "heavy" cyclists.

**NEW FLANGE ROAD DESIGN:**
- Allows integration with the AF5 meter on the braking force, transmission side.

**AVAILABLE FW BODIES:**
- Campagnolo - HG - XDR

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**CUP AND CONE BEARINGS:**
- Easy bearing adjustment.

**ALUMINIUM HUB STRUCTURE, LIGHT AND EXTREMELY RIGID AND AERODYNAMIC:**
- Optimised in the wind tunnel and designed for optimal rigidity and weight.

**ALUMINIUM AXLE:**
- Reduces the weight of the wheel.

**OVERSIZED FLANGE:**
- Greater torsional stiffness and greater reactivity.
Campagnolo® introduces the first aerodynamic Disc Brake wheel with a 45 mm profile, designed to appeal to a broader customer base. The design of the rim enables maximum aerodynamic penetration, and at certain angles, the wind can actually become a valuable ally to the rider. The wheel features carbon rims with a unidirectional aerodynamic finish, new aerodynamic aluminium hubs, and the ceramic USB™ cup-and-cone bearing system: every design choice has been made with a view to optimising performance. The profile of the rim, which has an internal diameter of 19 mm, corresponds perfectly with 23 mm, 25 mm and 28 mm tyres. While the key purpose of these wheels is to deliver extreme performance, safety is also guaranteed thanks to the G3™ spokes system with double spokes on the left of the front wheel, to ensure balanced and safe braking in all conditions. Available versions: dark label, Campagnolo® freehub hub, HG or XD.

100% HIGH MODULOUS CARBON FIBER: the unique, handmade construction allows Campagnolo staff to orient each and every fiber in accordance to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulus and oriented in a way to ensure professional level ride quality. Robust, reliable and reactive the Bora wheels are also lightweight. No paint or clear coat needed as the rim’s anti UV reactive the Bora wheels are also lightweight. No professional level ride quality. Robust, reliable and fiber used for the external application are of accordance to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulus and oriented in a way to ensure professional level ride quality. Robust, reliable and reactive the Bora wheels are also lightweight. No paint or clear coat needed as the rim’s anti UV reactive the Bora wheels are also lightweight. No professional level ride quality. Robust, reliable and fiber used for the external application are of high modulus and oriented in a way to ensure professional level ride quality. Robust, reliable and reactive the Bora wheels are also lightweight. No paint or clear coat needed as the rim’s anti UV reactive the Bora wheels are also lightweight. No professional level ride quality. Robust, reliable and fiber used for the external application are of high modulus and oriented in a way to ensure professional level ride quality. Robust, reliable and reactive the Bora wheels are also lightweight.

100% HIGH MODULOUS CARBON FIBER:
- Wind Tunnel Optimized to be extremely efficient.
- Campagnolo construction to ensure reactivity and reliability.

RDB™ RIM DYNAMIC BALANCE:
- When manufacturing carbon rims, the carbon fibre is aligned in such a manner that the resulting rim is perfectly balanced.

EXTREMELY AERODYNAMIC FULL CARBON FIBER RIM, 26 mm WIDE, COMPATIBLE WITH BOTH TUBELESS AND CLINCHER TIRES:
- Wind Tunnel Optimized to be extremely efficient.
- Aerodynamic aluminium rims and hubs and ceramic USB™ cup-and-cone bearing system in the hubs themselves: every design choice has been made with a view to optimising performance. The 19 mm internal diameter of the rim enables tyres of 23 mm, 25 mm and 28 mm to be fitted. While the key purpose of these wheels is to deliver extreme performance, safety is also guaranteed thanks to the G3™ spokes system with double spokes on the left of the front wheel, to ensure balanced and safe braking in all conditions. Available versions: bright and dark label, Campagnolo® FW or HG11 body.

The family of carbon aero wheels is further enhanced with the 45 mm profile, designed to appeal to a broader customer base. The design of the rim enables maximum aerodynamic penetration, and at certain angles, the wind can actually become a valuable ally to the rider. Aerodynamic aluminium rims and hubs and ceramic USB™ cup-and-cone bearing system in the hubs themselves: every design choice has been made with a view to optimising performance. The 19 mm internal diameter of the rim enables tyres of 23 mm, 25 mm and 28 mm to be fitted. While the key purpose of these wheels is to deliver extreme performance, safety is also guaranteed thanks to the G3™ spokes system with double spokes on the left of the front wheel, to ensure balanced and safe braking in all conditions. Available versions: bright and dark label, Campagnolo® FW or HG11 body.

**REAR WHEEL**
- Dark label

**FRONT WHEEL**
- Dark label

**WIND TUNNEL OPTIMIZED 3D SPOKE DESIGN:**
- Aerodynamic shape from all angles.

**EXCLUSIVE 03™ SPOKE PATTERN:**
- Perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. 03™ eliminates vibrations even with “heavy” cyclists.

**SELF-LOCKING NIPPLES:**
- It allows to maintain the right tension of the spokes and does not require any maintenance.

**USB™ ULTRA SMOOTH BEARINGS:**
- Top quality ceramic bearings create a perfectly smooth, resilience and maintenance free rolling.

**ADJUSTING LOCKING WITH MICRO-SETTING:**
- For precision hub adjustment.

**ALUMINIUM HUB SHELL:**
- Allows integration with the AC3™ freewheel hub, HG or XDR.

**NEW FLANGE ROAD DESIGN:**
- Allows integration with the AC3™ freewheel hub, HG or XDR.

**AVAILAble FW BODIES:**
- Campagnolo - HG - XD®

**USB™ ULTRA SMOOTH BEARINGS:**
- Top quality ceramic bearings create a perfectly smooth, resilience and maintenance free rolling.

**ADJUSTING LOCKING WITH MICRO-SETTING:**
- For precision hub adjustment.

**CERAMIC BALL BEARINGS:**
- Reduces friction, provides greater smoothness, and maintains performance over time.

**CUP AND CONE BEARINGS:**
- Easy bearing adjustment.

**ALUMINIUM HUB STRUCTURE, LIGHT AND EXTREMELY RIGID AND AERODYNAMIC:**
- Optimized in the wind tunnel and designed for optimal rigidity and weight.

**ALUMINIUM AXLE:**
- Reduces the weight of the wheel.

**OVERSIZED FLANGE:**
- Greater torsional stiffness and greater reactivity.
Campagnolo introduces the first aerodynamic Disc Brake wheel with a 33 mm profile. It is a turning point in the all-rounder segment: a truly multi-purpose wheel.

The wheel features aerodynamic carbon rims with a unidirectional finish, new aerodynamic aluminium hubs, and the ceramic USB cup-and-cone bearing system: every design choice has been made with a view to optimizing performance.

The profile of the rim, which has an internal diameter of 19 mm, corresponds perfectly with 23 mm, 25 mm and 28 mm tyres. Safety is guaranteed thanks to the G3 spoking system with double spokes on the left of the front wheel, to ensure balanced and safe braking in all conditions. Available versions: dark label, Campagnolo freewheel hub, HG or XDR.

2-Way Fit*: 1450 g

REAR WHEEL
Dark label

FRONT WHEEL
Dark label

REAR WHEEL
Bright label
FRONT WHEEL
Dark label

The family of carbon aero wheels is further enhanced with the 33 mm profile. It delivers multiple benefits that can be noted on different routes, from the most demanding of sprints to relaunching after a bend, while still ensuring efficiency on the flat and now also suitable for the hardest uphill finishes! It’s a truly multi-purpose wheel.

Safety is also guaranteed by the Campagnolo AC3 (All Conditions Carbon Control) technology, which ensures safe, modular braking in all weather conditions. Available versions: bright and dark label, Campagnolo FW or HG11 body.

2-Way Fit*: 1388 g

EXEMPLARY AERODYNAMIC FULL CARBON FIBER RIM, 26 mm WIDE, COMPATIBLE WITH BOTH TUBELESS AND CLINCHER TIRES:
Wind Tunnel Optimized to be extremely efficient. Campagnolo construction to ensure reactivity and reliability.

G3™ RIM DYNAMIC BALANCE:
when manufacturing carbon rims, the carbon fibre is aligned in such a manner that the resulting rim is perfectly balanced.

100% MODULOUS CARBON FIBER:
the unique, hand made construction allows Campagnolo staff to orient each and every fiber in accordance to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulus and oriented in a way to ensure professional level ride quality. Robust, reliable and reactive the Bora wheels are also lightweight. No paint or clear coat needed as the rim’s anti UV resin leaves a naturally pristine finish.

SELF-LOCKING NIPPLES:
permits an improved torque transfer across hub during the braking phase.

ALUMINIUM HUB SHELL:
permits an improved torque transfer across hub during the braking phase.

NEW FLANGE ROAD DESIGN:
allows integration with the AF5 meter on the braking force, transmission side.

AVAILABLE FW BODIES:
Campagnolo - HG - XDR

USB™ ULTRA SMOOTH BEARINGS:
top quality ceramic bearings create a perfectly smooth, resistance and maintenance free rolling.

ADJUSTING LOCKING WITH MICRO-SETTING:
for precision hub adjustment.

ALUMINIUM HUB SHELL:
permits an improved torque transfer across hub during the braking phase.

NEW FLANGE ROAD DESIGN:
allows integration with the AF5 meter on the braking force, transmission side.

AVAILABLE FW BODIES:
Campagnolo - HG - XDR

USB™ CERAMIC BALL BEARINGS:
reduces friction, provides greater smoothness, and maintains performance over time.

CUP AND CONE BEARINGS:
easy bearing adjustment.

ALUMINIUM HUB STRUCTURE, LIGHT AND EXTREMELY RIGID AND AERODYNAMIC: optimized in the wind tunnel and designed for optimal rigidity and weight.

ALUMINIUM AXLE:
reduces the weight of the wheel.

OVERSIZED FLANGE:
greater torsional stiffness and greater reactivity.
Since its inception the Bora™ wheelset has represented the gold standard in terms of carbon fiber racing wheels thanks to not only their extreme performance but their capability to continue offering such performance advantages kilometre after kilometre, race after race. The reactivity, handling and efficiency of the Bora™ are second to none and whether you are a professional rider or simply looking to find your own limits there is no better way to make your fast bike faster than with Bora™.
Innovating the wheel that has become perhaps the benchmark for quality, performance and race victories at the highest level of cycling was certainly an arduous task but one that the Campy Tech Lab® engineers met with enthusiasm. The result of their labor was the 2015 range Bora™ Ultra™ 35 which maintains the positive performance aspects of the preceding version while incorporating new solutions and technologies to build further upon its race-winning potential. The wider stance brings forth a more efficient, comfortable and sharp handling wheelset without additional weight. Add the super reactive construction, smooth rolling CULT™ bearings, aerodynamic profile it is no wonder why the Bora™ has become one of the winningest wheels in history. The 2018 range sees the addition of the new AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions.

The Bora™ Ultra™ 35 has been welcomed with open arms by the strongest professional riders in the World Tour since its introduction and has now become a wheel that they cannot do without. Available in both clincher and tubular versions the 35mm profile Bora™ Ultra™ 35 is perhaps the most versatile wheelset ever offered by Campagnolo®. Light enough to be considered a climber’s wheel but with an aerodynamic profile that aids on the flats and is plenty rigid for the most hotly contested sprint finish. This is a wheelset that represents no compromise and excels in any condition and over any course. The 2018 range sees the addition of the new AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions.

### Full-Carbon Rim, 24.2mm Wide
- Tubular: 1215 g
- Clincher: 1435 g

### Spokes with Aerodynamic Profile
- Provides the maximum aerodynamic penetration.

### Exclusive G3 Spoke Pattern
- Perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. G3™ eliminates vibrations even with “heavy” cyclists.

### Self-Locking Aluminum Nipples

### Rim Dynamic Balance

### Rim Brake
- Bright label

### Front Wheel
- Dark label

### Full-Carbon Rim, 24.2mm Wide, For Tubulars and Clinchers:
- Handbuilt and technologically advanced carbon fiber rim. New wider profile increases rigidity and comfort without adding weight. Wider stance improves braking performance on dry and, above all, on wet conditions.

### AC3™ (All Conditions Carbon Control) Braking Surface Technology:
- Improves the braking performances on dry and, above all, on wet conditions.

### Brake Pads Made Especially for Carbon Wheels
- RDB™ Rim Dynamic Balance

### Cult™
- The combination of the highest quality ceramic bearings with housing in special steel. Nine times smoother than the standard system. Eliminates oxidation and maintains performance over time.

### Cup and Cone Bearings:
- Easy bearing adjustment.

### Oversized Flange:
- Greater torsional stiffness and greater reactivity.

### Aluminum Axle:
- Reduces the weight of the wheel.

### Tubular: 1170 g
- Clincher: 1360 g
The Bora™ One 50 disc brake wheelset is the perfect answer for cyclists searching for deep profiles capable of offering significant aerodynamic advantages while remaining lightweight and reactive for even the steepest climbs. Its extremely sophisticated carbon fiber rim and its 24.2 mm width offers a rim/tyre interface optimized for the use of both 25 and 28mm tires by creating a more aerodynamic complete unit and a more efficient and surefooted structure. The Bora™ One 50 disc brake wheelset represents the same quality, performance and reliability that made its rim-brake predecessor such an iconic wheel. While it incorporates many technologies used in the rim brake version it is a completely new project and has been specifically designed in its entirety for the unique demands that come with disc brake construction. Only a wheel whose every single part has been functionally designed around its use with disc brakes can boast complete compatibility: accept no compromises.

**RIM DESIGN:**
Full Campagnolo carbon rim, 24.2 mm wide and 50 mm deep for both front and rear.

**AVAILABLE IN CLINCHER AND TUBULAR VARIANTS:**
versatile use and easy replacement of the inner tube in the event of a puncture for the clincher version. Maximum smoothness and handling performance for tubulars.

**ROB™ RIM DYNAMIC BALANCE:**
when manufacturing carbon rims, the carbon fibre is aligned in such a manner that the resulting rim is perfectly balanced.

**ADVANCED RESIN AND CARBON FIBRE TECHNOLOGY:**
the carbon fibre is held in place in the mould using a resin formula that guarantees a superior finish, durability and withstands UV rays over time.

**STABILITY AND SUоборот:**
The Bora™ One 50 uses a single rim as its Ultra™ brethren and thus brings along with it all of the performance that is afforded to that top end wheelset. The new wider profile brings forth a more efficient rim/tyre interface, better handling, increased aerodynamics, additional comfort and optimization for use with 25/28mm tires. The 2018 range sees the addition of the new AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions. The same race-day technologies interpreted with different materials in the hub and bearings make this one wheelset capable of propelling you to the top-step of the podium at a more modest price point.

**BLACK ANODIZED SELF-LOCKING NIPPLES TO ELIMINATE SPOKE ROTATION**

- **FULL-CARBON RIM, 24.2mm WIDE, FOR TUBULARS AND CLINCHERS:**
  - handbuilt and technologically advanced carbon fiber rim. New wider profile increases rigidity and the transmission of power to the wheel. G3™ spokes maintain the best aerodynamic position.
  - allows the spokes to maintain the best aerodynamic position.

- **USB™ ULTRA SMOOTH BEARINGS:**
  - top quality ceramic bearings create a perfectly smooth, resistance and maintenance-free rolling.

- **ADJUSTING LOCKING WITH MICRO-SETTING:**
  - for precision hub adjustment.

- **ALUMINIUM HUB SHELL:**
  - permits an improved torque transfer across hub during the braking phase.

- **NEW FLANGE ROAD DESIGN:**
  - allows integration with the AFS rotor on the braking surface technology.

- **AVAILABILITY FOR F/W BODIES:**
  - Campagnolo - HG - XDR

- **EXCLUSIVE G3™ SPEKE PATTERN ON THE FRONT WHEEL:**
  - improves tire/rim interface, thus improving handling and aerodynamics.

- **AC3™ (ALL CONDITIONS CARBON CONTROL) TECHNOLOGY BRAKING SURFACE TECHNOLOGY:**
  - improves the braking performances on dry and, above all, on wet conditions.

- **BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS:**
  - for carbon wheels.

- **USB™ RIM DYNAMIC BALANCE:**
  - reduces friction, provides greater smoothness, and maintains performance over time.

- **ALUMINIUM HUB BODY:**
  - high-performance ceramic bearings teamed with the cone/cup system ensure long-lasting performance, make adjustment easier, reduce possible play and improve smoothness.

- **ALUMINIUM AXLE:**
  - reduces the weight of the wheel.

- **OVERSIZED FLANGE:**
  - greater torsional stiffness and greater reactivity.
Campagnolo® has developed the Bora™ One Disc Brake wheelset, a completely new interpretation, extracting our rim brake version know-how and expertise and injecting new logic and technology to achieve some exciting results.

The Bora™ One is possibly the most sophisticated carbon fibre wheel currently available on the market and one of the few that have been designed specifically for disc brakes.

Extreme lightness while ensuring stiffness, resistance to impacts and perfect wheel balancing, available in Clincher and Tubular versions, in 35mm rim height, creating a wheel that is versatile for every road profile.

**RIM DESIGN:**
- Full-carbon rim 25.5 mm wide for the clincher version and 26.7 mm for tubular, with manual positioning of the carbon fibre textures, creating a perfect balance between weight and performance. When matched with 25 mm tires, the Bora™ One reaches new levels of comfort.

**AVAILABLE IN CLINCHER AND TUBULAR VERSIONS:**
- Versatile use and easy replacement of the inner tube in the event of a puncture for the clincher version.

**RDB™ RIM DYNAMIC BALANCE:**
- When manufacturing carbon rims, the carbon fiber is aligned to create a perfectly balanced rim.
- Advanced resin and carbon fiber technology: the carbon fiber is held in place in the mould using a resin formula that guarantees a superior finish, durability and withstands UV rays over time.

**BLACK ANODIZED SELF-LOCKING NIPPLES TO ELIMINATE SPOKE ROTATION**

**USB™ ULTRA SMOOTH BEARINGS:**
- Top quality ceramic bearings create a perfectly smooth, resistance and maintenance-free rolling.

**ADJUSTING LOCKING WITH MICRO-SETTING:**
- For precision hub adjustment.

**ALUMINIUM HUB SHELL:**
- Permits an improved torque transfer across hub during the braking phase.

**NEW FLANGE ROAD DESIGN:**
- Allows integration with the AF5 motor on the braking force transmission side.

**AVAILABLE F/W BODIES:**
- Campagnolo - HG - XDR

**FULL-CARBON RIM, 24.2mm WIDE, FOR TUBULARS AND CLINCHERS:**
- Handbuilt and technologically advanced carbon fiber rim. New wider profile increases rigidity and comfort without adding weight. Wider stance improves tire/rim interface, thus improving handling and aerodynamics.

**EXCLUSIVE G3 SPOKE PATTERN:****
- Allows the spokes to maintain the best aerodynamic position.

**SPOKES ANTI-ROTATION SYSTEM™:**
- Reduces play and improves wheel stability and increases transversal rigidity and the transmission of power to the wheel.

**FRONT WHEEL**
- Dark label

**REAR WHEEL**
- Bright label

**ULTRA SMOOTH BEARINGS:****
- Top quality ceramic bearings create a perfectly smooth, resistance and maintenance-free rolling.

**NEW FLANGE ROAD DESIGN:**
- Allows integration with the AF5 motor on the braking force transmission side.

**CONIC/CUP BEARINGS SYSTEM:**
- High performance ceramic bearings, teamed with the cone/cup system ensure long-lasting performance, make adjustment easier, reduce possible play and improve smoothness.

**ALUMINIUM AXLE:**
- Reduces the weight of the wheel.

**OVERSIZED FLANGE:****
- Greater torsional stiffness and greater reactivity.

**USB™ CERAMIC BALL BEARINGS:**
- Reduces friction, provides greater smoothness, and maintains performance over time.

**CONIC/CUP BEARINGS SYSTEM:**
- High performance ceramic bearings, teamed with the cone/cup system ensure long-lasting performance, make adjustment easier, reduce possible play and improve smoothness.

**ALUMINIUM AXLE:**
- Reduces the weight of the wheel.

**OVERSIZED FLANGE:**
- Greater torsional stiffness and greater reactivity.

The same 35mm rim as found on the Ultra™ version, the Bora™ One™ 35 offers fantastic performance technologies such as the Campagnolo® quality carbon construction and a new wider and more efficient stance.

Super smooth USB™ ceramic bearings and a solid and reactive aluminum construction hub laced to aerodynamic spokes this most versatile of wheelsets is ready to take on anything you can put in front of it. The 2018 range sees the addition of the new AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions.

**Tubular: 1275 g**
- Clincher: 1405 g

**REAR WHEEL**
- Bright label

**FRONT WHEEL**
- Dark label

**FULL-CARBON RIM, 35.0mm WIDE, FOR TUBULARS AND CLINCHERS:**
- Handbuilt and technologically advanced carbon fiber rim. New wider profile increases rigidity and comfort without adding weight. Wider stance improves tire/rim interface, thus improving handling and aerodynamics.

**EXCLUSIVE G3 SPOKE PATTERN:****
- Allows the spokes to maintain the best aerodynamic position.

**SPOKES ANTI-ROTATION SYSTEM™:**
- Reduces play and improves wheel stability and increases transversal rigidity and the transmission of power to the wheel. G3™ eliminates vibrations even with "heavy" cyclists.

**EXCLUSIVE RIM PRINTING SYSTEM (ALL CONDITIONS CARBON CONTROL) TECHNOLOGY BRAKING SURFACE:**
- Improves the braking performances on dry and, above all, on wet conditions.

**BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS**

**RDB™ RIM DYNAMIC BALANCE**

**CONE/CUP BEARINGS SYSTEM:****
- High performance ceramic bearings, teamed with the cone/cup system ensure long-lasting performance, make adjustment easier, reduce possible play and improve smoothness.

**ALUMINIUM AXLE:**
- Reduces the weight of the wheel.

**OVERSIZED FLANGE:**
- Greater torsional stiffness and greater reactivity.

**USB™ CERAMIC BALL BEARINGS:**
- Reduces friction, provides greater smoothness, and maintains performance over time.

**CONIC/CUP BEARINGS SYSTEM:**
- High performance ceramic bearings, teamed with the cone/cup system ensure long-lasting performance, make adjustment easier, reduce possible play and improve smoothness.

**ALUMINIUM AXLE:**
- Reduces the weight of the wheel.

**OVERSIZED FLANGE:**
- Greater torsional stiffness and greater reactivity.
ENDURANCE CARBON WHEELS

Reliability and performance are our trademark. We were born on the most winding and disrupted paths and since then the road travelled has been long and exciting. Let our wheels show you the way. Forget your problems, put your trust in them. Enjoy the comfort, the explosivity and your well-deserved long hours in the saddle.
Shamal™ Carbon the first Campagnolo wheel dedicated to endurance, with a 21 mm internal channel that can accommodate larger tyres and ensure the cyclist maximum comfort on races and long rides. This new product was intended for a broader customer base, with a new, more accessible price point, but with every feature necessary to guarantee the maximum performance and style that characterises Campagnolo wheels.

Carbon rim with unidirectional finish and a differentiated front/rear profile, modern rounded profile, new aluminium hubs, cup-and-cone bearing system. Every design decision is determined by the sole goal of improving cyclists’ performance over long hours on the saddle, providing comfort and rideability in all conditions.

**Full Carbon Fiber Rim, 21 mm Internal Channel, Compatible with Both Tubeless and Clincher Tires:**
- The rim design allows the utmost versatility in tyre use, from the most comfortable for road use (25, 28, 30 mm) to the largest for cyclo-cross and gravel use (balancing from 32 mm and going up to the largest, 45/50 mm).

**Differentiated Profile, Front 35 mm / Rear 40 mm:**
- The utmost comfort on longer rides, both in terms of bumps and ease of riding, without ever sacrficing performance.

**100% High Modulus Carbon Fiber:**
- the unique, hand made construction allows Campagnolo staff to orient each and every fiber in accordance to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulus and oriented in a way to ensure professional level ride quality. No paint or clear coat needed as the rim’s anti UV resin leaves a naturally pristine finish.

**24 Spokes in Stainless Steel with MEGA-G3™ System:**
- ensures extremely good stiffness and reactivity, reinforcement on braking side at the front and cassette side at the rear.

**Front Wheel Spokes:**
- 16 slim steel circular-section spokes (left side - braking side)
- 8 slim steel circular-section spokes (right side).

**Rear Wheel Spokes:**
- 8 slim steel circular-section spokes (left side)
- 16 slim steel circular-section spokes (right side - cassette side).

**Nipples:**
- Black anodized self-locking nipples outside the rim allows for easy maintenance.

**Cup and Cone Bearings:**
- easy bearing adjustment that reduces possible bearing play, maintaining performances over time and keeping the optimal contact angle between ball and track. USB and DULT update option (aftermarket kit).

**Aluminium Hub Shell:**
- permits an improved torque transfer across hub during the braking phase.

**New Campagnolo N3W™ Body:**
- The N3W™ body will be fitted by default on our new wheels, all equipped with a 3x tooth rack (diameter of ratchets: 33mm) to offer better resistance to torque.

**Available FW Bodies:**
- Campagnolo N3W™ - HB - XDR
ALUMINIUM WHEELS

From the iconic, range-leading Shamal™ Ultra to the Calima™, the Campagnolo® range of aluminum wheels is without equal in the cycling marketplace. Incorporating advanced technologies and sophisticated performance solutions for both rim and disk brake specific uses alike makes for a range that offers the perfect solution for any cyclist. Dynamic Balance™, G3™ spoke design, MoMag™ construction and a cornucopia of other technologies make the Campagnolo® aluminum wheelsets the obvious choice for the discerning cyclist looking for something more under his or her frame.

The SHAMAL™ ULTRA™ C17 represents the same fantastic performance that has made it THE go to aluminum race wheel for the better part of two decades while adding even more versatility and performance. The wider profile meets the C17 standard and is perfect for use with the increasingly popular 25/28mm tire sizes. This rim/tire interface proves to be more aerodynamic when compared to the same size tires mated to a C15 rim. The C17 also allows for a more surfeetood grip in addition to increased comfort while increasing rigidity and thus reactivity at the same time thanks to its wider stance and optimized material usage.


MOMAG™: allows the external profile of the rim to be free of holes.

DIFFERENTIATED RIM HEIGHT: FRONT (24 - 27 mm) AND REAR (27 - 30 mm)

2-Way Fit™: 1475 g
Clincher: 1449 g

Dynamic Balance™

2-WAY FIT™ PROFILE: allows you to use either the classic clincher or the innovative tubeless tire.


MOMAG™: allows the external profile of the rim to be free of holes.

DIFFERENTIATED RIM HEIGHT: FRONT (24 - 27 mm) AND REAR (27 - 30 mm)
The very first Campagnolo® branded wheelset developed specifically for disc brake equipped road bikes comes at a time where the market has plenty of solutions for road disc wheelsets but lacks many solutions that offer a level of performance, reliability, safety and integrity that has been associated with Campagnolo® wheels for traditional rim brakes. The Zonda™ disk brake wheelset is not only more reactive when compared to the rim brake version but it is also 25 grams lighter than its closest competitor. Adding more tech and more componentry to a wheel while increasing its performance, lowering its weight and ensuring that same Campagnolo® reliability cyclists have come to expect make a wheelset that should be at the top of any disc brake riding athlete in the market for a serious upgrade.

It is available with QR and HH12 with 135 and 142 QLQ.

NEW ASYMMETRIC RIMS PROFILE (26 – 28 mm)

MILLED RIM: this machining makes possible to reduce the peripheral weight of the rim and makes the wheel extremely reactive.

RODb™ - RIM DYNAMIC BALANCE: the concept is simple and elegant: balance the weight of the gasket, with an item of similar weight placed on the exact opposite side.

MOMAd™: allows the external profile of the rim to be free of holes to benefit of both stiffness and weight.

Clincher: 1675 g

SPOKES: G3® technology applied also to the front wheel to better perform at high braking power.

FRONT WHEEL SPOKES: 14 spokes in stainless steel section diameter 21/1,6/2 mm (left side - braking side)
3 spokes in stainless steel section diameter 21/1,6/2 mm (right side).

REAR WHEEL SPOKES: 7 spokes in stainless steel section diameter 21/1,6/2 mm (left side)
16 spokes in stainless steel section diameter 21/1,6/2 mm (right side - cassette side).

NIPPLES: black anodized self-locking nipples outside the rim allows for easy maintenance.

CUP AND CONE BEARINGS: easy bearing adjustment that reduces possible bearing play, maintaining performances over time and keeping the optimal contact angle between ball and track.

ADJUSTING LOCKING WITH MICRO-SETTING TECH: for an accurate adjustment of the hub that prevents the creation of any play.

Two different interfaces with the rotor: 4 bolts and AF5® for allowing the full compatibility with every motor available in the market.

21 SPOKES IN STAINLESS STEEL WITH MEGA-G3® SYSTEM: ensures extremely good stiffness and reactivity, reinforcement on braking side at the front and cassette side at the rear. It gives a very nice design to the wheelset.

SPokes ANti-rotation SYSTEM keeps the spokes in the position of maximum aerodynamic penetration.

exclusive MEGA-G3® Spoke Pattern: perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. Mega-G3® eliminates vibrations even with “heavy” cyclists.

SPokes With aerodynamic Profile: Front: 16 spoke variable profile Aero radius in stainless steel.
Rear: 21 spoke variable profile Aero in stainless steel with doubling on the cassette side.

Self-locking Nipples: allow the ideal spoke tension to be maintained at length, eliminating friction on the rim. All this translates into constant high performance throughout the life of the product.

REAR HUB WITH MEGA-G3® OVERSIZED FLANGE: increases the torsional stiffness, increasing reactivity at each change of pace of the cyclist.

ALUMINUM HUB BODY: provides a high degree of lateral stiffness.

ALUMINUM AXLE: low weight, high stiffness.

DIFFERENTIATED HUB DIAMETER FRONT AND REAR: optimized for structural integrity and performance. Small front hub aids in aerodynamic efficiency.

NEW ADJUSTING LOCK RING WITH MICRO-SETTING: for an accurate adjustment of the hub that prevents the creation of play.

The universally lauded Zonda™ get an update for 2017 range and the best-selling Campagnolo® wheelset incorporated a C17 class rim. The highly respected Zonda™ with its new 22,5 mm wide rim accepts larger clincher tires making for increased performance, comfort and a more efficient toe/rim interface. A new rim coupled with the same technologies that put the Zonda™ in a league apart from the rest of the wheels in its segment make this wheelset one that punches far above its weight. And while speaking of weight, the Zonda™ offers this added performance and wider profile while reducing its overall weight more than 10 grams.
33 mm is the entry point for the mid-profile rim segment. This is when we start to talk about aerodynamics, stability at high speeds and absolute steering precision. The Scirocco™ Disc Brake is a sturdy, precise aluminium wheel with sophisticated solutions, like straight-head spokes and the 2-Way Fit™ Ready profile, assembled in a highly competitive race-ready package. This wheel has character and can quite easily take on the role of the cyclist’s only wheel or the perfect training partner, offering an aerodynamic advantage and effortless rideability. It is ideal for aerodynamic race bikes and it responds perfectly to the needs of both triathletes and rouleurs who looking to perform well on climbs. Every watt will enhance performance, every turn will be carried out with precision. Additionally, the very rideability. It is ideal for aerodynamic race bikes and it responds perfectly to the needs of both triathletes and rouleurs who looking to perform well on climbs. Every watt will enhance performance, every turn will be carried out with precision. Additionally, the very rideability. It is ideal for aerodynamic race bikes and it responds perfectly to the needs of both triathletes and rouleurs who looking to perform well on climbs. Every watt will enhance performance, every turn will be carried out with precision. Additionally, the very rideability. It is ideal for aerodynamic race bikes and it responds perfectly to the needs of both triathletes and rouleurs who looking 33 mm RIM HEIGHT: extremely versatile rim profile. High enough for added aerodynamic efficiency that remains stable even in crosswinds. Low enough to ensure lightweight construction. 2-WAY FIT READY PROFILE WITH 19 mm INNER WIDTH: ensures compatibility with the larger tire widths and unique design facilitates assembly. Allows use of either clincher or tubeless ready tires according to the indications on the page related to the “2-Way Fit Ready” technology. NIPPLE SUPPORT TAB INSIDE THE RIM: unique solution reduces weight in addition to optimizing the distribution of tension to ensure a longer wheel lifetime. WELDED RIM: increases in lateral rigidity. SPKES: 63° technology applied also to the front wheel to better perform at high braking power. FRONT WHEEL SPKES: 14 spokes in stainless steel (left side - braking side) 7 spokes in stainless steel (right side). REAR WHEEL SPKES: 7 spokes in stainless steel (left side - braking side) 16 spokes in stainless steel (right side - cassette side). NIPPLES: black anodized self-locking nipples outside the rim allows for easy maintenance. MEGA-G3 OVERSIZE FLANGE ON THE REAR WHEEL: increases the torsional rigidity, increased reactivity. MEGA-G3 OVERSIZE FLANGE ON THE FRONT WHEEL: increases torsional rigidity and ensures greater rideability. AVAILABLE WITH DIFFERENT AXLES THANKS TO THE ADAPTORS: possible assembly on HH12 (100 mm at the front, 135 mm at the rear) or HH15 at the front and HG11 (in aluminum with the Plasma Electrolytic Oxidation treatment) low weight, high-stiffness. ALUMINIUM AXLE: this is used to increase torsional stiffness, creating greater reactivity with each change in the pace. HI-END FREE HUB BODY: the Scirocco™ hubs uses the same construction components normally reserved for high end hubs. Available in two options: Campagnolo (aluminum) and HG11 (in aluminum with the Plasma Electrolytic Oxidation treatment) low weight, high-stiffness. 35 mm AERODYNAMIC PROFILE IN A MID-END ALUMINUM RIM: aerodynamics in a mid-end aluminum rim. Advanced aerodynamic efficiency while being extremely easy to handle even in crosswinds. DYNAMIC BALANCE™: every point of the rim is counter-balanced by an equal weight on the opposite side. Maximum stability of the wheel even at high speeds. WELDED RIM: to increase stiffness and braking surface precision allowing a smoother progressive braking. AERODYNAMIC PROFILE: radial spokes in stainless steel. 15 spoke radial configuration on the front wheel, 21 spokes with double spoke pattern on the cassette side. EXCLUSIVE MEGA-G3™ SPEKE PATTERN: the MEGA-G3 creates a perfect spoke tension balance on both sides of the wheel. This helps to reduce spoke stress, increases transversal rigidity and as a consequence improved power to wheel transmission. INTERNAL RIM NIPPLE SUPPORT TABS: as used in high end carbon wheels. The support tabs are used to guarantee a longer life of the wheel by distributing tension more efficiently. ALUMINIUM HUB AND AXLE: saves weight and increases lateral stiffness. MEGA-G3™ OVERSIZE FLANGE ON THE REAR WHEEL (CASSETTE SIDE): this is used to increase torsional stiffness, creating greater reactivity with each change in the pace. With the easily recognizable 35mm profile height, the Scirocco™ is a versatile wheelset solution that offers strengths in every field. From aerodynamics and handling, weight and stiffness. It is predictable, reactive and light. The Scirocco™ is an all round wheelset aimed at passionate cyclists and professionals alike. The 35 mm profile is perhaps the perfect wheel to take on any challenge that the road or race presents.
A wheel that is requested by passionate cycle lovers to seasoned professionals alike. Light enough to tackle the steepest of climbs yet strong and flexible enough to affront the roughest of roads. The Calima™ wheelset offers to all cyclists the possibility to experience the renowned quality and technology of Campagnolo®.

**REAR WHEEL**

**FRONT WHEEL**

- **MACHINED PRECISE SPOKE SEAT:** permitting a longer spoke life.
- **ED (ELECTRODEPOSITION) BLACK SPOKES:**
  - Front: 18 radial spokes in steel
  - Rear: 27 spokes in steel with double spoke count on the cassette side.
- **EXCLUSIVE G3™ SPOKE PATTERN:** creating a perfect balance of the spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel.
- **ALUMINUM HUBS:** for increased lateral stiffness.
- **03™ FLANGE ON THE REAR WHEEL:** to increase torsional stiffness and greater reactivity with each change of pace.
- **STEEL AXLE:** increases wheel stiffness permitting a wheel geometry that allows the use of different free hub bodies.
  - Hi-end free hub body using the same construction components normally reserved for high end hubs. Available in two options: Campagnolo® (aluminum) and HG11 (steel).

- **24mm PROFILE:** a 24mm symmetrical rim profile rim that creates a front wheel that is precise in directional changes and a rear wheel that is reactive to power transfer and changes in pace.
- **C17 CLASS FOR CLINCHER TYRES:** to permit the fitting of a wider tyre (25 mm minimum) allowing for easier tyre fitting.
- **GLUED RIM:** glued rim for increased precision on the braking surface allowing smoother progressive braking.

Clincher: 1826 g
Running against time and winning.

When the margin of victory is measured in millimeters or milliseconds the smallest things count and perfection is the ultimate goal. To give you all of this Campagnolo® has designed and developed, in collaboration with the best Triathlon and Time Trial athletes, the range dedicated to these disciplines. With new technology such as bar-end brake levers that allow you to change gears you can see that Campagnolo® is making sure that technical advantages are within your grasp in your quest for victory atop your triathlon or TT bike. The starting gun has sounded. With Campagnolo® Triathlon/TT equipment you will reach the finish line faster and fresher than you ever imagined.
Super Record™ EPS™ Controls

Triathlon and Time Trial cyclists, just like any other athlete, must have perfect control, regardless of the position they assume. The Bar-End Super Record™ EPS™ controls and Super Record™ EPS™ brake levers allow the cyclist to shift no matter the position of his or her hands. The Super Record™ EPS™ TT controls have been designed not only to offer easy access, but also to enable the cyclist to maintain the best posture from an aerodynamic point of view while still maintaining maximum control. In other words, a simple click in any position brings you closer to victory with Campagnolo®.

1. Back-to-Zero Position: allows the lever to return always to its initial position. Reduces effort required to shift and maintains the lever in the most aerodynamic position.
2. Quick-Release System: it makes it easier to install and remove the wheel and allows, even during the race, to open the distance between the rim and the brake pads.
3. Ergonomic Profile for the Levers: maximum safety and adjustable braking system.

- Carbon fibre (Record™ EPS™)

One Lever-One Action: each lever of the control set has its own distinct function. This means absolute certainty of using the right control in all conditions (winter temperatures and gloves, poor road conditions etc.), eliminating the risk of error.

1. Dialogue with “MyCampy” App: Wireless system to communicate with “MyCampy” App by PC / Notebook / Tablet / Smartphone (BTLE), which allows the EPS groupset holder to personalize its own settings.
2. Easy Access to the Charging Port: recharging port positioned on the upper part and covered by a rubber cover linked to the interface.
3. Analogue-Digital Signal Conversion: transforms the analogue signals received from the controls into the digital signals transmitted to the Power Unit.

158 TRIATHLON - TIME TRIAL
Since its introduction, the Bora™ Ultra™ TT has accompanied cyclists of the highest caliber in winning international medals in time trials. In 2017, despite such success, the Campagnolo® road lenticular wheel was innovated even further, improving upon its main characteristics of low weight and extreme stiffness. The new Bora™ Ultra™ TT in fact weights nearly 111 g less than the previous model and is 8% stiffer than the stickest competitor’s wheel. The Campy Tech Lab™ has focused additionally on creating a product that meets the needs of time trial bike braking systems and the results are impressive. The 2018 range saw the addition of the AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions.

WHEEL DEVELOPED FOR THE TIME TRIAL FRAME:
- extremely stiff structure further eliminates flex near the bottom bracket, namely where the rear brake is positioned on road time trial frames, thus avoiding any possible friction with the brake itself.
- FULL HIGH MODULUS CARBON RIM FOR TUBULAR
- AC3™ (ALL CONDITIONS CARBON CONTROL) BRAKING SURFACE TECHNOLOGY: improves the braking performances on dry and, above all, on wet conditions.
- BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS: the special blend increases the brake performance on both dry and wet surfaces without increasing the wear and tear on the pad or wheel.

FULL CARBON DISC IN A SPECIALY DEVELOPED WEAVE
- PROFILE: extreme new design reduces profile on both drive and non-drive sides for an even slimmer and more aerodynamic design.
- GRAPHICS FEATURING THE “WINGED WHEEL”: the legendary Campagnolo® “Winged Wheel” logo identifies Campagnolo® lenticular wheels that use the very latest carbon fiber technologies.
- BEARINGS WITH CULT™ TECHNOLOGY: the combination between the highest quality ceramic bearings and housing in special steel. CULT™ makes the wheel nine times smoother than the standard system of steel bearings.
- CUP AND CONE BEARINGS: easy bearing adjustment – reduces the possibility bearing play – precision operation – maintains performance over time.
- LIGHTWEIGHT AND EXTREMELY RIGID ALUMINUM HUB CONSTRUCTION
- CASSETTE: compatible with Campagnolo® 10, 11 and 12 speed cassettes as well as Shimano Inc. 9, 10, and 11 speed cassettes.

Tubular: 864 g

SUGGESTED WHEELS

Time trials and triathlons are always a combination of battles against the clock and the performance of your adversaries. However, no two races are ever the same. Courses are flat, undulating or hilly. Conditions can be windy and treacherous or calm and easy. No matter the conditions, course or situation at hand there is a perfect Campagnolo® wheelset for any given day or competition. Whether you are taking on a triathlon or time trial you will find the perfect performance ally in Campagnolo® wheels.
From the starting gun a track racer exerts an extreme amount of force and the physical test increases exponentially as the race continues. No matter what the event, the track athlete is obligated to run a perfect race. Nowhere to hide. No place for even the slightest error.

Track racing demands an incredible amount of expertise and extreme attention to detail in order for an athlete to be successful. It is with this same spirit that Campagnolo® develops its products; attention to detail, search for perfection and desire to continuously improve.
Campagnolo® is quite proud of its glorious track record with the Ghibli™ disc wheel, the very first tenso-structure wheel ever introduced in the cycling world. Despite the fact that the Ghibli™ was still very competitive with newer models, the R&D department at Campagnolo® sought to take lessons from this iconic wheel and build upon them in order to produce the next generation of extreme performance. Incorporation of carbon fiber throughout in addition to completely new construction techniques give the new wheelset an ultralight build while not sacrificing its performance attributes.

Incorporation of carbon fiber throughout in addition to completely new construction techniques give the new wheelset an ultralight build while not sacrificing its performance attributes.

Minimizing material but maximizing efficiency in its employment allowed the Campy Tech Lab™ to not only make this new wheel lighter but, more importantly for its specific intended purpose of battling the clock, to improve its reactivity and rigidity. The new structure, despite its lightweight construction, is also the stiffest amongst the leading disc wheel competitors according to laboratory tests.

With a front wheel tipping the scales at a scant 800 grams and the rear at an incredibly low 825 grams the Ghibli™ wheels are effectively the lightest performance solution available.

Full-Carbon High Profile for 80mm Tubular: provides the maximum aerodynamic penetration. Extremely high lateral wheel stiffness and reactivity.

Exclusive Pressing System for the Rim in Unpainted Carbon: expert polished finish is result of advanced and patented production technique. Eliminating need for paint keeps weight lower.

RDB™ Rim Dynamic Balance

Ball Bearings with Cult™ Technology: the combination of the highest quality ceramic bearings with housing in special steel. Nine times smoother than the standard system. Eliminates oxidation and maintains performance over time.

Carbon fibre Hub: provides a high degree of lateral stiffness and reduces weight to the minimum.

Cup and Cone Bearings

Aluminium Axle

FRONT WHEEL

REAR WHEEL

This new wheelset was proven not only via strenuous lab testing and countless hours under athletes in training, but also in competition. In its first official competition the Ghibli™ and its new ultra-performance construction were able to confer to Alex Dowsett a technological advantage that played a fundamental role in breaking the Hour Record.

A few months later, the Ghibli™ was the star of the 4 km individual pursuit thanks to Filippo Ganna, the nineteen-year-old world champion aided tremendously in his quest for victory by his ultra-performance Campagnolo® wheels.

The remarkable performance advantage represented by the Ghibli™ did not go unnoticed, so much so that the Canadian and British national teams will use them in their attempts to win Olympic medals for the team pursuit in Rio de Janeiro.

The Bora™ Ultra™ 80 track version matches perfectly to the Ghibli™ disc wheel to make an extremely competitive and race-winning combination. The two wheels work well together for all of the track disciplines involving group activity such as the points race, Madison, Elimination and Scratch thanks to the extreme lightweight of both the disc wheel (perhaps the lightest available) as well as the Bora™ Ultra™ 80’s 705 grams. This spoked wheel allows for extreme agility, continuous relaunches and quick changes of direction... making it an excellent choice for certain disciplines on the track. The Bora™ Ultra™ 80 track version brings Bora™ performance to the track and with it, Campagnolo® results. Previously well known for climbing mountains and crushing time trials on the road, the Pista version of the Bora™ will be sure to claim podiums and crush records on the wooden boards of the track.
TECH DATA

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

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

Please note that we reserve the right to change products, surface finish and specifications at any moment without prior notice.
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<tr>
<td>RECORD™ rear hub</td>
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<tr>
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### GROUPSETS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OPTIONS</th>
<th>WEIGHT [g]</th>
<th>WEIGHT REFERENCE</th>
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<tr>
<td>RECORD™ rear derailleur</td>
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<tr>
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<td>-</td>
</tr>
<tr>
<td>RECORD™ crankset</td>
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<td>708</td>
<td>170 mm, 34-50 (2 bearings assembled)</td>
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<tr>
<td>RECORD™ ULTRA-TORQUE™ threaded cups</td>
<td>ITA: 70x (36x24 tpi) ITA: 70x (36x24 tpi)</td>
<td>45</td>
<td>BSA</td>
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<tr>
<td>ULTRA-TORQUE™ press-fit cups</td>
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<td>11-29</td>
<td>266</td>
<td>11-29</td>
</tr>
<tr>
<td>SUPER RECORD™ chain</td>
<td>-</td>
<td>220</td>
<td>110 links</td>
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<tr>
<td>CAMPANNOLO® caliper</td>
<td>160 mm Front 160 mm Rear</td>
<td>118</td>
<td>160 mm (1 piece - pads included)</td>
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<tr>
<td>CAMPANNOLO® 03 rotor</td>
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<td>140 mm (1 piece)</td>
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<td>COMPLETE GROUPSET</td>
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<td>2.454</td>
<td>2 calipers 2 rotors</td>
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### TECH DATA

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<th>COMPONENT</th>
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<td>RECORD™ rear derailleur</td>
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<tr>
<td>RECORD™ crankset</td>
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<td>708</td>
<td>170 mm, 34-50 (2 bearings assembled)</td>
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<tr>
<td>RECORD™ ULTRA-TORQUE™ threaded cups</td>
<td>ITA: 70x (36x24 tpi) ITA: 70x (36x24 tpi)</td>
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<td>11-29</td>
<td>266</td>
<td>11-29</td>
</tr>
<tr>
<td>SUPER RECORD™ chain</td>
<td>-</td>
<td>220</td>
<td>110 links</td>
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<tr>
<td>CAMPANNOLO® direct mount brake</td>
<td>Front Rear Seat Stay</td>
<td>168</td>
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### EXTRA COMPONENTS

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<tr>
<th>COMPONENT</th>
<th>OPTIONS</th>
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<tr>
<td>Rear Caliper Bolts</td>
<td>for 10-14 mm rear mount</td>
<td>Disc Brake (MANDATORY)</td>
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<td></td>
<td>for 10-19 mm rear mount</td>
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<tr>
<td></td>
<td>for 20-24 mm rear mount</td>
<td>-</td>
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<tr>
<td></td>
<td>for 25-29 mm rear mount</td>
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<tr>
<td></td>
<td>for 30-34 mm rear mount</td>
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</tr>
<tr>
<td></td>
<td>for 35-39 mm rear mount</td>
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</tr>
<tr>
<td>Oil</td>
<td>100 ml 250 ml 1.000 ml</td>
<td>Disc Brake</td>
</tr>
<tr>
<td>Bleeding Kit</td>
<td>-</td>
<td>Disc Brake</td>
</tr>
<tr>
<td>140 mm to 160 mm Rear Caliper adapter</td>
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<td>Disc Brake</td>
</tr>
<tr>
<td>Chain Guard</td>
<td>for brake-on for a 12/15 clamp</td>
<td>Accessory</td>
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<tr>
<td>Front Derailleur Clamp</td>
<td>ø 32 mm ø 35 mm</td>
<td>Accessory</td>
</tr>
<tr>
<td>Front Derailleur barrel adjuster</td>
<td>-</td>
<td>Accessory</td>
</tr>
<tr>
<td>RECORD™ Headset</td>
<td>-</td>
<td>General</td>
</tr>
<tr>
<td>RECORD™ front hub</td>
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<td>RECORD™ rear hub</td>
<td>-</td>
<td>General</td>
</tr>
<tr>
<td>SUPER RECORD™ Bottle caps</td>
<td>-</td>
<td>General</td>
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<tr>
<td>SUPER RECORD™ Bottle</td>
<td>550 ml 750 ml</td>
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172 GROUPSETS

TECH DATA 173
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<th>WEIGHT REFERENCE</th>
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<td>CHORUS™ Ergopower™ DB controls</td>
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<td>Pair</td>
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<tr>
<td>CHORUS™ front derailleur</td>
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<td>-</td>
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<tr>
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<td>172.5 mm, 32-48 (2 bearings assembled)</td>
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<tr>
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<td>BSA</td>
</tr>
<tr>
<td>ULTRA-TORQUE™ press-fit cups</td>
<td>BB30: (68 x 42) mm BB30A: (73 x 42) mm BB86: (86.5 x 41) mm PF30: (68 x 40) mm BB386: (86.5 x 46) mm BB RIGHT: (79 x 46) mm</td>
<td>40</td>
<td>BB86</td>
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<tr>
<td>CHORUS™ sprockets</td>
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<td>11-29</td>
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<td>CHORUS™ chain</td>
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<td>263</td>
<td>110 links</td>
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<tr>
<td>CAMPAGNOLO® caliper</td>
<td>160 mm Front 140 mm Rear</td>
<td>118</td>
<td>160 mm Rear (1 piece - pads included)</td>
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<td>CAMPAGNOLO® rotor</td>
<td>160 mm 140 mm</td>
<td>99</td>
<td>160 mm (1 piece)</td>
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<td>COMPLETE GROUPSET</td>
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<td>2 calipers 2 rotors</td>
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<th>EXTRA COMPONENTS</th>
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<tr>
<td>Rear Caliper Bolts</td>
<td>for 10-14 mm rear mount for 15-19 mm rear mount for 20-24 mm rear mount for 25-29 mm rear mount for 30-34 mm rear mount for 35-39 mm rear mount</td>
<td>Disc Brake (MANDATORY)</td>
</tr>
<tr>
<td>Oil</td>
<td>100 ml, 250 ml, 1.000 ml</td>
<td>Disc Brake</td>
</tr>
<tr>
<td>Bleeding Kit</td>
<td>-</td>
<td>Disc Brake</td>
</tr>
<tr>
<td>140 mm to 160 mm Rear Caliper adapter</td>
<td>-</td>
<td>Disc Brake</td>
</tr>
<tr>
<td>Chain Guard</td>
<td>for braze-on for ø 33/35 clamp</td>
<td>Accessory</td>
</tr>
<tr>
<td>Front Derailleur Clamp</td>
<td>ø 32 mm ø 35 mm</td>
<td>Accessory</td>
</tr>
<tr>
<td>Front Derailleur cable deviator insert</td>
<td>-</td>
<td>Accessory</td>
</tr>
<tr>
<td>Front Derailleur barrel adjuster</td>
<td>-</td>
<td>Accessory</td>
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<tr>
<td>RECORD™ Headset</td>
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<tr>
<td>RECORD™ front hub</td>
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<td>General</td>
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<tr>
<td>RECORD™ rear hub</td>
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<td>General</td>
</tr>
<tr>
<td>SUPER RECORD™ Bottle cage</td>
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<td>General</td>
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<tr>
<td>SUPER RECORD™ Bottle</td>
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### Groupsets

<table>
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<th>Options</th>
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<th>Weight Reference</th>
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<tr>
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<td>CENTAUR™ Ergopower™ controls</td>
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<td>CENTAUR™ front derailleur</td>
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<td>170 mm, 36-50</td>
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<tr>
<td>RECORD™ ULTRA-TORQUE™ threaded cups</td>
<td>ITA: 70x (36x24 tpi) BSA: 68x (1.37x24 tpi)</td>
<td>45</td>
<td>BSA</td>
</tr>
<tr>
<td>ULTRA-TORQUE™ press-fit cups</td>
<td>BB30: (68x42) mm BB68: (86,5x41) mm PF30: (68x46) mm BB RIGHT: (79x46) mm BB30A: (73x42) mm</td>
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<td>BB66</td>
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<td>Rear Seat Stay</td>
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### Extra Components

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<td>Chain Guard</td>
<td>for braze-on for ø 30/35 clamp</td>
<td>Accessory</td>
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<tr>
<td>Front Derailleur Clamp</td>
<td>ø 32 mm ø 35 mm</td>
<td>Accessory</td>
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<tr>
<td>Front Derailleur cable deviator insert</td>
<td>-</td>
<td>Accessory</td>
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<td>Front Derailleur barrel adjuster</td>
<td>-</td>
<td>Accessory</td>
</tr>
<tr>
<td>RECORD™ Headset</td>
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<td>General</td>
</tr>
<tr>
<td>RECORD™ front hub</td>
<td>-</td>
<td>General</td>
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<tr>
<td>RECORD™ rear hub</td>
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### Technical Data

### Ultra Torque™

**Thread**

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<td>BSA: 68x (1.37x24 tpi)</td>
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**Press-Fit**

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<tr>
<td>BB30A</td>
<td>73x42</td>
</tr>
<tr>
<td>BB68</td>
<td>86,5x41</td>
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<tr>
<td>PF30</td>
<td>68x46</td>
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<tr>
<td>BB RIGHT</td>
<td>79x46</td>
</tr>
<tr>
<td>BB30A</td>
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### Triathlon / Time-Trial

**Component**

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<th>Weight Reference</th>
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<td>Pair</td>
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<tr>
<td>SUPER RECORD™ TT EPS™ brake levers</td>
<td>-</td>
<td>110</td>
<td>Pair</td>
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<tr>
<td>TT DITI™ EPS™ V4 interface</td>
<td>-</td>
<td>65</td>
<td>cables included</td>
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Uniquely compatible with all the frames on the market. Thanks to accurate design that meets client needs, Campagnolo® cranksets can in fact be fitted to any type of frame: from the standard Italian to English types, to Press-Fit bottom brackets of BB66-BB30A, BB30A 68x42, PF30 68x46, BB68 86,5x46, BB30A 73x42 and BB RIGHT 79x46 with new design to improve coupling with Press-Fit bottom brackets on the market.

This means the well-known advantages of stiffness, lightness and performance over time typical of Campagnolo® cranksets remain unaltered. This solution offers many advantages, one of which is the ability to change frames without having to purchase a new crankset. This allows Campagnolo® to maintain the tried, tested and proven geometries and designs of the Ultra-Torque™ crankset without having to modify the crankset itself for the wide array of standards available currently.

Campagnolo®’s integrated cups, available for Ultra-Torque™ cranksets, have the same functionality as other systems but with the added technical advantage of maintaining the widest stance possible for the bearings. This reduces lateral forces acting on the bearings and makes for a smoother and more reactive performance that is more durable over time.

Campagnolo®’s integrated cups, available for Ultra-Torque™ cranksets, have the same functionality as other systems but with the added technical advantage of maintaining the widest stance possible for the bearings. This reduces lateral forces acting on the bearings and makes for a smoother and more reactive performance that is more durable over time.
### AERO CARBON WHEELS

<table>
<thead>
<tr>
<th>Model</th>
<th>Rim Material</th>
<th>Spoke Material</th>
<th>Hub Body Material</th>
<th>Key</th>
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</thead>
<tbody>
<tr>
<td>BORA™ ULTRA™ TT rear tub. (HG)</td>
<td>carbon</td>
<td>D/20</td>
<td>alu</td>
<td>black</td>
</tr>
<tr>
<td>BORA™ ULTRA™ TT rear tub. (HG)</td>
<td>carbon</td>
<td>D/20</td>
<td>alu</td>
<td>black</td>
</tr>
<tr>
<td>BORA™ WTO 77 2-Way Fl™ front</td>
<td>carbon</td>
<td>77/24.5</td>
<td>UD 16</td>
<td>black</td>
</tr>
<tr>
<td>BORA™ WTO 60 2-Way Fl™ front</td>
<td>carbon</td>
<td>60/24.5</td>
<td>UD 18</td>
<td>black</td>
</tr>
<tr>
<td>BORA™ WTO 60 2-Way Fl™ rear (HG)</td>
<td>carbon</td>
<td>60/24.5</td>
<td>UD 21/03™</td>
<td>black</td>
</tr>
<tr>
<td>BORA™ WTO 60 2-Way Fl™ rear (HG)</td>
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<td>60/24.5</td>
<td>UD 21/03™</td>
<td>black</td>
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<tr>
<td>BORA™ WTO 65 2-Way Fl™ front</td>
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<td>65/24.5</td>
<td>UD 18</td>
<td>black</td>
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<td>BORA™ WTO 65 2-Way Fl™ rear (HG)</td>
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<td>UD 21/03™</td>
<td>black</td>
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<tr>
<td>BORA™ WTO 65 2-Way Fl™ rear (HG)</td>
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<td>UD 21/03™</td>
<td>black</td>
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<tr>
<td>BORA™ WTO 33 2-Way Fl™ front</td>
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<td>33/24.5</td>
<td>UD 18</td>
<td>black</td>
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<tr>
<td>BORA™ WTO 33 2-Way Fl™ rear</td>
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<td>UD 21/03™</td>
<td>black</td>
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<tr>
<td>BORA™ WTO 33 2-Way Fl™ rear (HG)</td>
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<td>33/24.5</td>
<td>UD 21/03™</td>
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### PERFORMANCE CARBON WHEELS

<table>
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<th>Rim Material</th>
<th>Spoke Material</th>
<th>Hub Body Material</th>
<th>Key</th>
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</thead>
<tbody>
<tr>
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<td>alb/carb</td>
<td>35/24.2</td>
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</tr>
<tr>
<td>BORA™ ULTRA™ 35 rear tub. (HG)</td>
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<td>35/24.2</td>
<td>UD 21/03™</td>
<td>black</td>
</tr>
<tr>
<td>BORA™ ULTRA™ 35 rear tub. (HG)</td>
<td>alb/carb</td>
<td>35/24.2</td>
<td>UD 21/03™</td>
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<tr>
<td>BORA™ ULTRA™ 50 front tub.</td>
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<td>50/24.2</td>
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<td>BORA™ ULTRA™ 50 rear tub. (HG)</td>
<td>alb/carb</td>
<td>50/24.2</td>
<td>UD 21/03™</td>
<td>black</td>
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<tr>
<td>BORA™ ULTRA™ 50 rear tub. (HG)</td>
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<td>50/24.2</td>
<td>UD 21/03™</td>
<td>black</td>
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<td>BORA™ ONE 35 front tub.</td>
<td>alb/carb</td>
<td>35/24.2</td>
<td>UD 18</td>
<td>black</td>
</tr>
<tr>
<td>BORA™ ONE 35 rear tub. (HG)</td>
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<td>35/24.2</td>
<td>UD 21/03™</td>
<td>black</td>
</tr>
<tr>
<td>BORA™ ONE 35 rear tub. (HG)</td>
<td>alb/carb</td>
<td>35/24.2</td>
<td>UD 21/03™</td>
<td>black</td>
</tr>
<tr>
<td>BORA™ ONE 50 front tub.</td>
<td>alb/carb</td>
<td>50/24.2</td>
<td>UD 18</td>
<td>black</td>
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<tr>
<td>BORA™ ONE 50 rear tub. (HG)</td>
<td>alb/carb</td>
<td>50/24.2</td>
<td>UD 21/03™</td>
<td>black</td>
</tr>
<tr>
<td>BORA™ ONE 50 rear tub. (HG)</td>
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<td>50/24.2</td>
<td>UD 21/03™</td>
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<td>50/24.2</td>
<td>UD 21/03™</td>
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### TECH DATA

- **DB** = Butted
- **RDB** = Rim Dynamic Balance
- **SDB** = Spoke Dynamic Balance
- **ALU** = Alu
- **SPOKE ANTI-ROTATION** = USB™ - C
- **AERO CARBON WHEELS**
- **PERFORMANCE CARBON WHEELS**

*Average weight - does not include the quick-release and the rim-lace - wheel weight may vary depending on the tolerance of the production process.
## WHEELS

### ALUMINIUM WHEELS

<table>
<thead>
<tr>
<th>Model</th>
<th>Material</th>
<th>O.L.D (mm)</th>
<th>B/T</th>
<th>Nipple Material</th>
<th>Spoke Type</th>
<th>R/L</th>
<th>Cup &amp; Cone Bearing</th>
<th>HUB Finish</th>
<th>Hub System</th>
</tr>
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<tbody>
<tr>
<td>SHAMAL™ Ultra™ front cl.</td>
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<td>SS</td>
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<td>B</td>
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<td>SS</td>
<td>RDB</td>
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<td>SHAMAL™ Ultra™ 2-Way Fit™ rear</td>
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<td>B</td>
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<td>SS</td>
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<td>SS</td>
<td>RDB</td>
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<td>RDB</td>
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<td>RDB</td>
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<td>RDB</td>
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<tr>
<td>CALIMA™ rear cl.</td>
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<td>24/22</td>
<td>B</td>
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<td>S</td>
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### TRIATHLON - TIME TRIAL

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<th>Nipple Material</th>
<th>Spoke Type</th>
<th>R/L</th>
<th>Cup &amp; Cone Bearing</th>
<th>HUB Finish</th>
<th>Hub System</th>
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<tbody>
<tr>
<td>Bora™ Ultra™ TT rear tub.</td>
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<td>Bora™ Ultra™ TT rear tub. (HG)</td>
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<td>C</td>
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### PISTA

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<th>Model</th>
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<th>Nipple Material</th>
<th>Spoke Type</th>
<th>R/L</th>
<th>Cup &amp; Cone Bearing</th>
<th>HUB Finish</th>
<th>Hub System</th>
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<tbody>
<tr>
<td>Ghibli™ front tub. track</td>
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<tr>
<td>Ghibli™ rear tub. track</td>
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<td>B</td>
<td>steel</td>
<td>C</td>
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<tr>
<td>Bora™ Ultra™ 80 front tub. track</td>
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<td>C</td>
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<td>RDB</td>
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</tbody>
</table>

**TECH DATA**

- **Rim Dynamic Balance (RDB)**: Butted - **Aero (AE)**: Ultra Aero - **Stainless steel (SS)**: Dynamic Balance - **Brass (BR)**: Butted - **Steel (S)**: Dark - **USB™ (U)**: Black satinized - **CULT™ (C)**: Black - **SDB (S)**: Spoke Dynamic Balance - **RDB (R)**: Rim Dynamic Balance - **Blk/carb (B)**: Black - **AU (A)**: Ultra Aero - **alu/carbon (alu)**: Alu/Carno
- **Average weight - does not include the quick-release and the rim-tape - wheel weight may vary depending on the tolerance of the production process.**
**ROAD - DISC BRAKE**

### AERO CARBON WHEELS

<table>
<thead>
<tr>
<th>Wheel Model</th>
<th>Rim Material</th>
<th>Spoke Count</th>
<th>Hub Material</th>
<th>Finish</th>
<th>RIM Dynamic Balance</th>
<th>BID</th>
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</thead>
<tbody>
<tr>
<td>BORA™ WTO 45 DB 2-Way Fit™ front</td>
<td>carb</td>
<td>135-142</td>
<td>SS</td>
<td>U</td>
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<tr>
<td>BORA™ WTO 45 DB 2-Way Fit™ rear</td>
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<td>135-142</td>
<td>SS</td>
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<tr>
<td>BORA™ WTO 65 DB 2-Way Fit™ front (HG)</td>
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<td>135-142</td>
<td>SS</td>
<td>U</td>
<td>RDB</td>
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<td>BORA™ WTO 65 DB 2-Way Fit™ rear (HG)</td>
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<td>RDB</td>
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<tr>
<td>BORA™ WTO 65 DB 2-Way Fit™ front (XDR)</td>
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<td>BORA™ WTO 33 DB 2-Way Fit™ rear</td>
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### PERFORMANCE CARBON WHEELS

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<th>Finish</th>
<th>RIM Dynamic Balance</th>
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<tbody>
<tr>
<td>BORA™ ONE DB front cl.</td>
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<td>U</td>
<td>RDB</td>
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<tr>
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<td>U</td>
<td>RDB</td>
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<tr>
<td>BORA™ ONE DB rear cl. (HG)</td>
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<td>RDB</td>
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<td>40/28,1</td>
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### ALUMINIUM WHEELS

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<th>Wheel Model</th>
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<th>Spoke Count</th>
<th>Hub Material</th>
<th>Finish</th>
<th>RIM Dynamic Balance</th>
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### TECH DATA

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<tr>
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</tr>
</tbody>
</table>

### TECH DATA

* Average weight - does not include the quick-release and the rim-tape - wheel weight may vary depending on the tolerance of the production process.
The Service Center is the reference point for all Campagnolo® dealers and its aim is to provide an adequate after-sales service to Campagnolo® users. Service Centers are a territorial extension of Campagnolo srl and work exclusively with dealers, no exceptions made. The Service Centers handle two activities: After-sales Service and Spare Parts Service.

The After-sales Service provides technical assistance for products under guarantee or otherwise, enabling cyclists to enjoy the first-class characteristics of Campagnolo® products for long, without forgoing safety, performance and endurance.

The Spare Parts Service handles the distribution of spare parts. Campagnolo® possesses a large inventory of spare parts and is able to replenish its distribution system adequately in relatively short times.

We therefore advise you to refer to your Campagnolo® dealer for any expert action required by your bikes - these dealers are the only ones supported by the constant, skilled collaboration of Campagnolo® Service Centers.

CAMPAGNOLO® SERVICE CENTER list at www.campagnolo.com/WW/en/Support/service_center

CAMPAGNOLO® SALES NETWORK list at www.campagnolo.com/WW/en/Support/sales_network
Tecnologia che emoziona