Grazie Tadej!

TADEJ POGAČAR (UAE TEAM EMIRATES)
WINNER OF THE 2020 TOUR DE FRANCE
WITH CAMPAGNOLO GROUPSET AND WHEELS

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THE BEST TEAMS CHOOSE CAMPAGNOLO®

For over 80 years, the quality and precision of Campagnolo® products have accompanied big names like Coppi, Gimondi, Merckx and Indurain in their many victories in the past.

Still today, our company is right there alongside the stars of modern cycling such as Tadej Pogacar, Alexander Kristoff, Caleb Ewan and Diego Ulissi, using the components and wheels of our historic brand. Again in 2021, the best cyclists will be able to count on the excellent quality and top-level performance that have always made our Italian-brand products stand out.

Thanks to the contribution in terms of technology, reliability and performance that our components make in achieving victory in all classes of race, many teams on different levels choose Campagnolo® for their racing season.
As the hashtag says, #thoseinthewknow 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.
GRAVEL GROUPSETS

Campagnolo® presents EKAR™, the next-generation 1x13 gravel drivetrain.
The world’s lightest gravel groupset (2.385 g):
reliable, durable & fast.
Born hard so you can ride easy.

Born on Mt Ekar: just as Campagnolo’s ground-breaking first quick release lever can trace its origins to the Passo Croce D’Aune climb, the innovative new gravel-focused Ekar™ groupset was born on another cima local to today’s Campagnolo headquarters: Ekar.

With its asphalt giving way to tracks and trails, climbs and descents present surfaces and characters that evolve season-by-season and change, ride-by-ride, Ekar™ epitomises the special challenges of Italian gravel. But Mt Ekar’s influence goes beyond physicality; it represents the spirit of riding gravel, of adventure, and of freedom.

Ekar™ delivers 1x13 transmission the way it should be:
wide range, close ratio and no compromise

Thanks to a 9T sprocket, Ekar’s unique and innovative gravel-specific 1x13 drivetrain delivers a full range of gear ratios with smooth, natural gear progressions for the perfect cadence, whatever your speed, and whatever your style of gravel riding.

With four chainring options – 38, 40, 42 and 44T – and a choice of three cassettes – 9-36T, 9-42T and 10-44T – Ekar is ready for however you ride and wherever your adventures take you!
The Ekar™ rear derailleur’s all-new design has been created specifically for gravel. The highly effective 1x13-speed drivetrain has a full gearing range with short, evenly spaced shifts for well-maintained cadence levels, with the strong and durable yet lightweight and efficient derailleur at its heart.

The combination of more than 70 moving parts lovingly crafted in carbon fiber, carbon-reinforced polyamide and anodised 7075 and 6082 alloys – with stainless steel bolts – exceed the demands of all-road riding to combine quick, precise, reliable shifting with high chain security, and the toughness that only comes by being born on Mt Ekar.

For the new gravel-focused Ekar™ drivetrain design, we’ve taken the best of classic Campagnolo® controls technology and adapted it for the most pragmatic, natural gravel-riding experience.

They’re the most comfortable shaped lever and hoods, with easily-adjusted reach size giving you precise, quick shifting and positive engagement – every time, at every speed, on every surface.

A new Lever 3 design means it’s easy and reliable to activate from the drops. Ekar™ Ergopower’s all-new surface is easy to grip and easy to clean, and there’s Campagnolo’s signature quick 3-gear up-shift with Ultra-Shift™ – features that all gravel riders will appreciate. Insight and passion from its birth at Mt Ekar to wherever you choose to ride!
**Ekar™ Crankset**

The 1x crankset is a crucial element in Campagnolo’s gravel-specific Ekar™ drivetrain design. Lightweight, secure and simple up front, with no wasted overlapping gears or unnecessary moving parts to collect trail dirt – one chaining and no front mech is the way to go, whatever your off-road ambitions!

**But behind that apparent simplicity is a design to die for.** The unidirectional carbon fiber cranks feature a strong, durable 630-grade steel alloy crank axle – following the maxim of smartly mating strength and light weight that is employed across the Ekar™ groupset.

New Pro-Tech™ technology joins the two semi-axles inside the BB while oversized stainless steel bearings sit outside the shell, for smoothness, strength and easy access.

**Four ring options 38, 40, 42 and 44-teeth – combine with cassette options to ensure there’s a gear range perfect for every rider and every ride.**

**FEATURES & BENEFITS**

- Lightweight, efficient, secure 1x Ekar system – perfect for gravel riding and racing
- 2-piece cranks: Ultra-Torque™ 630 steel axle & UD carbon arms – strong and lightweight
- 4 ring options – Adventure (38T), Pure Gravel (40T), Fast Gravel (42T), Gravel Race (44T)
- Narrow-wide tooth design – efficient drive & maximum chain security
- Pro-Tech™ strong, efficient, self-aligning Hirth joint semi-axles
- Easy access to external crank bearings
- Easily interchangeable alloy rings – no need to disassemble crank
- 4 crank arm lengths: 165, 170, 172.5 e 175 mm
- Narrow Q-factor: 145,5 mm
- Technology: Pro-Tech™
- Weight: 615 g (172.5mm, 38T)

From the Ekar™ 1x13 drivetrain’s very first days of inspiration and conception at its spiritual home, Mt Ekar, we knew the performance and protection of the bottom bracket was another crucial element in the lifetime of smooth running, efficiency and longevity for our new gravel-specific grouspset.

**So we made the new Pro-Tech™ system: a gravel-orientated development from the innovative Campagnolo® Ultra-Torque™ technology.** Pro-Tech’s two integrated semi-axles meet at a central Hirth joint where self-centring and self-aligning teeth create a positive, balanced drive, increase efficiency and save weight, while large BB bearings run smoothly inside the crank.

It’s all protected by a patented external sealing ring and strong fiberglass-polyamide tube that resist harmful ingress of water, mud and grit that threaten in the most challenging gravel routes.

**Ekar™ Pro-Tech™ Bottom Bracket**

**FEATURES & BENEFITS**

- Designed specifically for gravel riding and racing – protected from harmful ingress of water, mud & grit
- Pro-Tech™ – a patented external sealing ring & strong fiberglass-polyamide tube
- Large, protected external stainless steel bearings attach directly to crank arms – for smooth, fluid performance and easy maintenance
- Full compatibility – all threaded and Pressfit standards
- BSA, ITA, BB86, BB30, BB30A, BB394, PF30, BB RIGHT, T47
- Weight: 50 g
A drivetrain – in fact a bike – is nothing without a chain to make it all work!

And in our ground-up design of the gravel-specific 1x13 Ekar™ drivetrain, we kept that fundamental component front and center of our focus. But we didn’t just want to chain to work – we knew it had to be a vital element in operating effectively and reliably in the toughest environments gravel riding can throw at you!

The new Nickel-Teflon treated C13 chain is designed specifically to work efficiently and securely with the narrow-wide 13-sprocket system. Despite being our narrowest ever chain it’s also strong, light, durable and amazingly efficient.

The Ekar™ C13 chain comes in two options: Classic Pin and C-Link™ to suit every kind of gravel rider, the world over.

Campagnolo’s considerations behind the gearing ratios and cadence-managing shifts is fundamental to the design of Ekar’s gravel-specific cassettes. And their tough, durable yet efficient build matches the clever maths perfectly to life on the gravel trails of Italy’s Mt Ekar, and wherever in the world your adventures will take you!

13 sprockets make the logic of the 1x system possible. And what makes it work so perfectly for all-road riding, is our introduction of the 9-tooth cog. It means the wide range of gear ratios is not just possible, but that all the natural, progressive cadence-matching shifts create a uniquely satisfying ride.

With the new, lightweight and versatile N3W™ driver body (further details on p. 106) and a 2-block design to combine steel strength and alloy weight-saving, the Ekar™ cassettes come with three gearing options – 9-36, 9-42 and 10-44 – ready for every specialism of gravel riding and every kind of rider.

FEATURES & BENEFITS

13-speed – full range to match or exceed any 2x systems, with no wastage
9-tooth sprocket – allows full range with zero drop in efficiency
Compact = narrow design with quick changes, lightweight, improved chain security
Durable = tough materials and design, with no weight penalty

Gravel Race: 9-42T (9-10-11-12-13-14-16-18-21-25-30-36-42)

Closer low gear spacing – creating natural cadence progression
Wider higher gear spacing – creating top-end speed options
2-piece block – blends strength of steel with light weight of alloy
Works with new N3W™ driver body – for great versatility and full compatibility

Technology: N3W™ (further details on p. 106)

Weight: 340 gr (9-36T)/ 390 gr (9-42T)/415 gr (10-44T)

Ekar™ Chain

New C13 chain – developed specifically for Ekar 1x13-speed gravel system
Wide-narrow teeth design – for efficient drive, smooth shifts & high security
Narrow profile – light weight, strong & efficient
Strong, durable, links – with different grades of steel & coatings for strength and to withstand wear
Unique ultrasound bath lubrication impregnation system – for long-life efficiency

Classic Pin and C-Link™ options – options for every kind of gravel rider

Weight: 242 gr (117 links / C-Link) / 242 gr (118 links / Pin)
Tempered stainless steel rotors are strong, light and corrosion-resistant, with a choice of 140 and 160mm discs and the organic compound DB310 pads providing power, performance and durability come sun or rain, dust, dirt and demonic descents.

Stopping fast helps you ride fast, and knowing that your brakes are powerful yet sensitive, with a uniquely 'real' feel is a priceless riding confidence boost.

**Ekar™ Brakes**

**FEATURES & BENEFITS**

- Hydraulic system’s internals are shared with Campagnolo’s high-performance ranges – for proven performance
- Trusted modulation and progressive feel – perfect for all-road control
- DB310 pads unique organic compound – high braking performance & improved wear resistance in wet or dry conditions
- Strong, durable & light

**Weight:** 110 gr front (adapter incl.) 95 gr rear

**Ekar™ Rotors**

**VANTAGGI & CARATTERISTICHE**

- Trusted modulation and progressive feel – perfect for all-road control
- 140 and 160mm rotors – to suit your riding style and bike

**Weight:** 157 gr (160mm) / 123 gr (140mm)

Paired with Ekar’s Ergopower controls, we shared the best technology of Campagnolo’s high-performance hydraulic system’s internals for the Ekar brakes – and fine-tuned them for gravel riding.
# GROUPSETS FOR RACING BICYCLES

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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 Power Unit
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

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 external devices

V4 Interface
Internal version:
Option 1 - BAR END

V4 Interface
Internal version:
Option 2: FRAME
CABLES AND HOUSING

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

ERGOPOWER EPS

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).

EPS 12x2 SPEED CABLES AND HOUSING ERGOPOWER EPS CABLES AND HOUSING
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

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

Mode Button

- AMS
  - Not only ergonomics but also performance. AMS setting allows for fine-tuning of brake performance and free stroke to meet each individual cyclist’s personal preference

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)

ERGOPOWER EPS DB

Complete customization
**Campagnolo motors**

Extreme strength and precision

**Thin cage and specific setting for crossings**

A prompt reply of the front derailleur is guaranteed when shifting

**Extremely fluid front shifting even under heavy load**

**Inner semi-cage design optimized for excellent chainring engagement**

Maximum shifting fluidity thanks to the cage shape which helps the chain engage the chainring

**Automatic Chain Centering**

Comunication from rear derailleur allows front derailleur to adjust position

**Flawless, 12 speed specific, front shifting**

Advanced and meticulously studied form and new intelligence from interface
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

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

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

**Improved ergonomics**

New hood design
Vari Cushion technology

**Customizable ergonomics**

Larger thumb shifting lever

**Upgraded brake lever**

Upshifting lever enlarged

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

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

One lever One action

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

Completely redesigned internals
perfect compatibility with completely new rear derailleur
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

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

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 values of shifting fluidity thanks to the cage which helps the chain in engaging the chainring

Dedicated positions for each chainring and each scenario for each chainring
FRONT DERAILLEUR

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 chaining 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

One Rear Derailleur fits all

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...
if we were comparing to 11s...
Total weight 181 g
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.

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
11-12-13-14-15-16-17-19-22-25-28-32
11-12-13-14-15-16-17-19-22-25-29-34

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

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

Lay-out with the last 2 triplets in monolithic steel
Maximum stiffness in the biggest sprockets

Technical treatment on the sprocket surface
Increasing the sprocket life via chemical intervention

An extra gear makes for more efficient gearing with less gaps

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

Metric development remains linear
Crankset

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.

One crankset fits all:

- 50/34
- 52/36
- 53/39

Available in 4 lengths:

- 165, 170, 172.5, 175

Internally developed hard anodization process

Increases integrity and longevity of component.

Symmetrical turning on the inner chainring teeth

Increased versatility and lower friction in situations of extreme chain crossing.

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.
BRAKES

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

One lever action is maintained

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 free-stroke, 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
Piston-calliper connector:
the return action of the pistons is now optimised, rapidly returning the pads to their position and thus ensuring an overall clearance between pad and disc of 0.4-0.8 mm, with no risk of accidental contact.

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
Special shape:
- serves to simplify wheel change process by guiding disc into place

Roll Back:
- ensures smooth and efficient pedaling

0.4mm distance guaranteed by Campagnolo is even with industry leader
<table>
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<th>DISC BRAKES</th>
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<td><img src="image1" alt="AFS Axial Fixing System" /></td>
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<td><strong>Rounded edge to ensure maximum safety</strong></td>
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<td><img src="image2" alt="Rounded edge" /></td>
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<td><strong>Fundamental key to extreme performance and safety</strong></td>
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<td><strong>Campagnolo disc brake rotors:</strong></td>
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<td>dissipate heat in safe and uniform manner while guaranteeing performance in situations of heat that compromise the functionality and safety of competing products</td>
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<td><strong>Total Unit Extreme Heat Resistance:</strong></td>
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<td>performance and safety guaranteed</td>
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<td><strong>Resistance to heat Tests</strong></td>
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<td><img src="image4" alt="Heat resistance test" /></td>
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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 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.

MyCampy™: 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.
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 DERAILEUR**

- 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 DERAILEUR**

- Special cage design - front derailleurs 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 (BLE), 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 (131 g) internal (on handlebar or frame)

**SUPER RECORD™ EPS™ 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 145.5 mm - new chainrings - ultra-torque™ axle - titanium axle and reverse thread titanium fixing bolt - optimized upsetting 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

**SUPER RECORD™ EPS™ DB ERGOPOWER™**

- Carbon fibre 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™ - vari cushion™ hood - very low resistance of upshifting and downshifting levers - multi-dome tech on the downshifting lever

Fast shifting, always precise and effortless for the cyclist, and a very gradual gear ratio are just some of the extraordinary characteristics of the new EPS™ groupset, whose performance is ensured by the tried and tested Campagnolo disc brake system and the AMS and Reach adjustment management options.

**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 - rapid return of the pads to their position - 0.4 – 0.8 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 (199 g) and 160 mm (220 g) - high heat resistance - different quantity of spins per each dimension - rivet connection engineered to attain safe distance between rotor and caliper, promoting efficient cooling under stress - semi-floating technology

Carbon fibre 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™ - vari cushion™ hood - very low resistance of upshifting and downshifting levers - multi-dome tech on the downshifting lever

Fast shifting, always precise and effortless for the cyclist, and a very gradual gear ratio are just some of the extraordinary characteristics of the new EPS™ groupset, whose performance is ensured by the tried and tested Campagnolo disc brake system and the AMS and Reach adjustment management options.
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 (e.g. easy access to the charging port - “zero setting” and “ride settings” - LED RGB - two versions available: external (131 g) internal (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 ULTRA-SHIFT® transmissions; longer life for chainrings and sprockets, maximum efficiency in power transmission.

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 BRAKE 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 BRAKE FOR POWERFUL, SAFE BRAKING - * Weight of one brake

Groupsets

12-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.
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™ 12x2 Speed Rim Brake Groupsets**

- **Super Record™ Crankset**
  - Full compatibility with disc and rim brake frames
  - Q factor maintained at 44.5 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™ 9 cups required
  - Reinforcement brace for increased stiffness in areas of highest torque application
  - 618 g

- **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)
  - 266 g

- **Super Record™ Front Derailleur**
  - Special inner cage design
  - Outer semi-cage in monocoque carbon
  - CSD (Chain Security Device)
  - Dual position cable closure allows for versatile cable position and better tire clearance
  - Split connecting rod for smooth derailment
  - 79 g

- **Super Record™ Rear Derailleur**
  - Special inner cage design
  - Outer semi-cage in monocoque carbon
  - CSD (Chain Security Device)
  - Dual position cable closure allows for versatile cable position and better tire clearance
  - Split connecting rod for smooth derailment
  - 181 g

- **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
  - 220 g

- **Super Record™ Cassette**
  - 266 g

- **Super Record™ Ergopower® Controls**
  - Carbon fibre brake lever with unidirectional finish
  - Ultra-Shift™ ergonomics: no grip on handlebars in all positions and faster, more precise command on levers
  - ErgoPower™ hood movement of levers on bearing
  - Special compound
  - Exclusive brake pad coupling/uncoupling system
  - Dual pivot brakes
  - New front lever design for maximum aerodynamic penetration
  - 339 g

- **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
  - 311 g

- **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
  - Weight of one brake: 168 g

- **Campagnolo® Carbon Fibre Brake Lever with Unidirectional Finish**
  - 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
  - 266 g

- **Campagnolo® Carbon Fibre Brake Lever with Unidirectional Finish**
  - 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
  - 220 g

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  - 181 g

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  - 168 g

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  - Ultra-Shift™ function allows for multiple shifting and greater control for racing
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  - Multishifting allows the rider to react immediately to rapid changes in the course or necessary gearing
  - 131 g

- **Campagnolo® Carbon Fibre Brake Lever with Unidirectional Finish**
  - 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
  - 109 g

- **Campagnolo® Carbon Fibre Brake Lever with Unidirectional Finish**
  - 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
  - 98 g

- **Campagnolo® Carbon Fibre Brake Lever with Unidirectional Finish**
  - 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
  - 87 g

- **Campagnolo® Carbon Fibre Brake Lever with Unidirectional Finish**
  - 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
  - 76 g

- **Campagnolo® Carbon Fibre Brake Lever with Unidirectional Finish**
  - 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
  - 65 g

- **Campagnolo® Carbon Fibre Brake Lever with Unidirectional Finish**
  - 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
  - 54 g

- **Campagnolo® Carbon Fibre Brake Lever with Unidirectional Finish**
  - 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
  - 43 g

- **Campagnolo® Carbon Fibre Brake Lever with Unidirectional Finish**
  - 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
  - 32 g

- **Campagnolo® Carbon Fibre Brake Lever with Unidirectional Finish**
  - 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
  - 21 g

- **Campagnolo® Carbon Fibre Brake Lever with Unidirectional Finish**
  - 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
  - 10 g
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™ CRANKSET
- FULL COMPATIBILITY WITH DISC AND RIM BRAKE FRAMES - Q-FACTOR MAINTAINED AT 145,5 mm - ULTRA-TORQUE™ AXLE - NEW CHAINRINGS - OPTIMIZED UPSHIFTING PINS FOR EACH CHAINRING COMBINATION - 8 BOLT RETENTION DESIGN INCREASES EFFICIENCY - CAMPAGNOLO® ULTRA-TORQUE™ BB CUPS REQUIRED

RECORD™ REAR DERAILLEUR
- 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 - PARALLELDRIV 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

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 - SPROCKET SETS AVAILABLE: 11-29, 11-32, 11-34 (NEW)
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® CRANKSET**
- Full compatibility with disc and rim brake frames - Q factor maintained at 144.5 mm - Ultra-Torque® axle - New chainrings - Optimized upshifting pins for each chaining 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® FRAMES**
- 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

**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.

**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 - Vario-Cushion® brake lever hoods with variable density and surface finishes

**RECORD® 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

**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 - Vario-Cushion® brake lever hoods with variable density and surface finishes

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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.
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™ 12x2 Speed different from the Super Record™ and Record™ groupsets.

**CHORUS™ CRANKSET**
- Full compatibility with Disc and Rim brake frames - Q factor maintained at 145.5 mm - Ultra-Torque™ Axle - New Chainrings - Optimized upshifting pins for each chainring combination - 8 bolt retention design increases efficiency - Campagnolo® Ultra-Torque™ BB cups required

**CHORUS™ 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 derailment

**CHORUS™ REAR DERAILLEUR**
- 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™ CHAIN**
- Ultra-LINK™ chain link connecting system - Ultra-LINK™ chain links - Designed to provide maximum performance to Campagnolo’s transmissions - longer life for chainrings and sprockets - maximum efficiency in power transmission.

**CHORUS™ 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® ROTOR**
- 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 - Rapid return of the pads to their position - 0.4 – 0.8 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® 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 - Rapid return of the pads to their position - 0.4 – 0.8 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

**DISC BRAKE**
- 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 derailment

**ULTRA-LINK™ CHAIN LINK CONNECTING SYSTEM - ULTRA-LINK™ CHAIN LINKS:**
- Designed to provide maximum performance to Campagnolo’s transmissions - longer life for chainrings and sprockets - maximum efficiency in power transmission.

**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

**ALUMINIUM FRONT PLATE - PARALLELOGRAM WITH TECHNOPOLYMER EXTERNAL CONNECTING ROD - JOINT FOR MOUNTING ON STANDARD OR DIRECT MOUNT DROP-OUTS**

**ULTRA-TORQUE™ BB CUPS REQUIRED**

**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**

**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 - RAPID RETURN OF THE PADS TO THEIR POSITION - 0.4 – 0.8 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 - ULTRA-TORQUE™ BB CUPS REQUIRED**

**728 g**
**243 g**
**488 g**
**99 g**
**118 g**
**310 g**

**97 g**
**220 g**

**87 g**
Chorus™ 12-speed groupset: the best choice for those wanting typical Campagnolo quality, cutting-edge technologies and reliability, also for endurance cycling.

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.
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. Campagnolo’s initial offering comes as an affordable solution while guaranteeing performance generally associated with premium products.

**CENTAUR® REAR DERAILEUR**
- 220 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 DERAILEUR**
- 103 g
- Super Record®-influenced design - one-piece steel cage - shaped outer semi-cage: improve the downshifting speed and chain control during upshifting
- New rod design

**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 11TH CHAIN**
- 256 g
- Wider link design: the new design of the Campagnolo® 11th 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® ERGOPOWER® CONTROLS**
- 373 g
- Aluminium brake lever - redesigned right power-shift® mechanism - multiple upshifting up to 3 gears - ergonomic downshifter lever position - new lip 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® 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® 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 - chaining inner design optimized per each combination
- Three crank lengths available: 170, 172.5 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 levers 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
- *one brake weight
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 DERAILLEUR**
230 g
REDISIGNED 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 CASE - SHAPED OUTER SEMI-GIÁ: Improve the downshifting speed and chain control during upshifting - NEW ROD DESIGN

**CENTAUR® CASETTE**
291 g

**CAMPAGNOLO 11™ CHAIN**
256 g
WIDER LINK DESIGN: the new design of the Campagnolo® 11™ chain increases shifting 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**
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® CRANKSET**
875 g
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 PER EACH COMBINATION - THREE CRANK LENGTHS AVAILABLE: 170, 172.5 AND 175 mm - CAMPAGNOLO® ULTRA-TORQUE™ BB CUPS REQUIRED

**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

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®.
WHEEL TECHNOLOGIES

AERO CARBON WHEELS
BORA* ULTRA* TT
BORA* WTO 77
BORA* WTO 60
BORA* WTO 45
BORA* WTO 33

PERFORMANCE CARBON WHEELS
BORA* ULTRA* 50
BORA* ULTRA* 35
BORA* ONE* 50
BORA* ONE* 35

ENDURANCE CARBON WHEELS

SHAMAL™ CARBON
ZONDA™
SCIROCCO™
CALIMA™

ALUMINIUM WHEELS

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AERON CARBON WHEELS
118

BORA* WTO 77
Rim Brake
120

BORA* WTO 60
Disc Brake - Rim Brake
122 - 123

BORA* WTO 45
Disc Brake - Rim Brake
124 - 125

BORA* WTO 33
Disc Brake - Rim Brake
126 - 127

PERFORMANCE CARBON WHEELS
BORA* ULTRA* 50
Rim Brake
130

BORA* ULTRA* 35
Rim Brake
131

BORA* ONE* 50
Disc Brake - Rim Brake
132 - 133

BORA* ONE* 35
Disc Brake - Rim Brake
134 - 135

ENDURANCE CARBON WHEELS
SHAMAL™ CARBON

Disc Brake
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ALUMINIUM WHEELS

SHAMAL™ ULTRA™
ZONDA™
SCIROCCO™
CALIMA™

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142 - 143
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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

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

- Probability of apparent wind direction (%)
- Athletes don’t race in wind tunnels
- Nature does not create wind in a uniform manner or from the same direction

Wind effect is barely ever straightforward:

- Apparent wind must be accounted for

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°
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 45 k/h**

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
- 21/03 spokes for Bora WTO 60, 45 and 33 mm rear wheel
- 24/03 spokes for Bora WTO 60 and 33 mm Disc Brake

**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

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.

**Bora™ WTO 77 55 k/h**

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.

Efficient design that accounts for varied wind conditions.

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.
**Bora™ WTO 60, 45 and 33**

with oversize 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

**Bora™ WTO 60 CULT™ Ceramic Bearings:**

9 x more efficient than standard bearings

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

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**Bora WTO**
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
N3W™ - NEXT 3 WAYS - IS OUR FUTURE:
A SINGLE STANDARD TO MANAGE
ALL THE CAMPAGNOLO CASSETTES...
PRESENT, PAST AND... STILL TO COME!

N3W™ is a patented standard for a freewheel body engineered to house 11-, 12- and 13-speed cassettes with 9-, 10- and 11-tooth starting sprockets.

It is also still compatible with older 9- and 10-speed cassettes.

N3W™ has the same groove profile as the classic Campagnolo® body but it is 4.4 mm shorter, making it lighter.

N3W™ is directly compatible with the new Campagnolo® cassettes with 9- and 10-tooth starting sprockets.

Campagnolo® N3W™ freewheel body:
optimized for 12 and 13 speed cassettes starting with sprockets with 10 teeth or less.
The N3W™ body will therefore fitted as standard on our new wheels, all equipped with 36-tooth side rack to give better resistance to the twisting torque.

Campagnolo® N3W™ freewheel body + N3W™ adapter:
backward compatibility with 10-11-12 speed cassettes.
The N3W™ standard has been designed with an eye on the future, but Campagnolo® hasn’t forgotten its keen cycling fans.

Retrofit Kit for current wheels:
if needed, two conversion kits are available
code AC21-N3WRFCC for cone and cup,
cod. AC21-N3WRFCS for sealed bearings,
to adapt your faithful pedaling companions to the new N3W™ standard.
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 combatted 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.

2-Way Fit™ Ready
Scirocco Disc Brake wheel can be converted in a 2-Way Fit™ Ready. Only the Tubeless Easy (TL-Easy) tires 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™.

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: 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.
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.

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.

CARBON WHEELS

<table>
<thead>
<tr>
<th>Cartridge</th>
<th>Rim Type</th>
<th>Rim Dynamic Balance™</th>
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</thead>
<tbody>
<tr>
<td>BORA™ ULTRA 50</td>
<td>Disc Brake</td>
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<tr>
<td>BORA™ ONE 50</td>
<td>Rim Brake</td>
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<tr>
<td>ZONDA™</td>
<td>Disc Brake</td>
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<tr>
<td>CALIMA™</td>
<td>Rim Brake</td>
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<tr>
<td>SHAMAL™ ULTRA</td>
<td>Rim Dynamic</td>
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ALUMINUM WHEELS

<table>
<thead>
<tr>
<th>Cartridge</th>
<th>Rim Dynamic Balance™</th>
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</thead>
<tbody>
<tr>
<td>BORA™ WTO 45</td>
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<td>BORA™ WTO 33</td>
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<td>BORA™ WTO 60</td>
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<td>BORA™ 50</td>
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<td>BORA™ 35</td>
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<td>BORA™ 45</td>
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</table>
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.

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 a 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 Tubular 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.

RIGHT SIDE

Left Side

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.

FULL CARBON DISC IN A SPECIALLY 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® Tubular wheels that use the very latest carbon fiber technologies.

LIGHTWEIGHT AND EXTREMELY RIGID ALUMINIUM HUB CONSTRUCTION

CASSETTE:
• Compatible with Campagnolo® 10, 11 and 12 speed cassettes as well as Shimano Inc. 9, 10, and 11 speed cassettes.

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.

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

EXTREMELY AERODYNAMIC FULL CARBON FIBER RIM, 26.5mm WIDE, COMPATIBLE WITH BOTH TUBELESS AND CLINCHER TIRES:
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.

FRONT WHEEL

BRIGHT LABEL

REAR WHEEL

BRIGHT LABEL
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™ WTO 60 DB: made for winning in sprint finishes, circuit races, time trials and triathlons.

**REAR WHEEL**
Dark label

**FRONT WHEEL**
Dark label

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**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.

**RD® 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 with 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.

**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.

**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 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.

**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.

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

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

**100% HIGH MODULOUS CARBON FIBER:** the unique, hand made construction allows Campagnolo staff to orient each and every fiber in accordance with 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.

**BRAKE PADS SPECIFIC FOR CARBON FIBER:** improves the braking performances on dry and, above all, on wet conditions.

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 40 km/h.

**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:** if allows to maintain the right tension of the spokes and does not require any maintenance.

**EXTRA-WIDE 26.5MM RIM, COMPATIBLE WITH BOTH TUBELESS AND CLINCHER TIRES:**

- **Paint or clear coat needed as the rim’s anti UV resin leaves a naturally pristine finish.**
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™ spoke 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.

**EXEMPLARY AERODINAMIC 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 innermost 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.

**USBTM 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 and reduces stress, increases transversal rigidity and the transmission of power to the wheel. G3™ 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.

**NEW FLANGE ROAD DESIGN:**
allows integration with the AFS rotor on the braking phase.

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

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 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.

**EXEMPLARY AERODINAMIC FULL CARBON FIBER RIM, 26.5 mm WIDE, COMPATIBLE WITH BOTH TUBELESS AND CLINCHER TIRES:**
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 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.

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

**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.

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

**ALUMINIUM HUB SHELL:**
permits an improved torque transfer across hub and reduces stress, increases transversal rigidity and the transmission of power to the wheel. G3™ 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.

**NEW FLANGE ROAD DESIGN:**
allows integration with the AFS rotor on the braking phase.

**AVAILABLE F/W 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.
Campanolo 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 uni-directional 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.

126 WHEELS

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.

The 19 mm internal diameter of the rim enables tyres of 23mm, 25mm and 28mm to be fitted. 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.
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™.
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, 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.

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

**BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS**

**RDB™ RIM DYNAMIC BALANCE**

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**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.

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

**BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS**

**RDB™ RIM DYNAMIC BALANCE**
The Bora™ One 50 disc brake 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/tire 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 VERSIONS:**
versatile and easy replacement of the inner tube in the event of a puncture for the clincher version. Maximum smoothness and handling performance for tubulars.

**RDB® 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.

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

**MODIFIED VERSION OF THE FAMOUS G3® SPOKE PATTERN ON THE REAR WHEEL**

**MODIFIED VERSION OF THE FAMOUS G3® SPOKE PATTERN ON THE FRONT WHEEL**

**USR® 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 F/W BODIES:**
Campagnolo - HG - IDR

The Bora™ One 50 uses the same 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/tire 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.

**FULL-CARBON RIM, 24.2mm WIDE, FOR TUBULARS AND CLINCHERS:**
handbuild 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 RIM PRINTING SYSTEM:**
removing the need for rim painting no longer required. The weight is greatly reduced and the surface is free from imperfections.

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

**BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS**

**RDB® RIM DYNAMIC BALANCE**

**SPOKES ANTI-ROTATION SYSTEM™,** allows the spokes to maintain the best aerodynamic position.

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

**ALUMINIUM HUB BODY**

**CONC/CUP BEARINGS SYSTEM:**
high performance ceramic bearings teamed with the concup 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 knowledge 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.

**TECHNOLOGY:**

**ADVANCED RESIN AND CARBON FIBRE**

The same 35mm rim as found on the Ultra™ version, the Bora™ One’s 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.

**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. Reduces stress, increases transversal equilibrium. This ensures extremely good stiffness and the transmission of braking torque resistance.
- G3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions.
- AC3™ (All Conditions Carbon Control) braking surface technology improves the braking performances on dry and, above all, on wet conditions.
- RIM DYNAMIC BALANCE: allows for the high degree of air penetration.
- SPOKES ANTI-ROTATION SYSTEM™: allows the spokes to maintain the best aerodynamic position.
- 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 HUB BODY: reduces friction, provides greater smoothness, and maintains performance over time.
- ALUMINIUM AXLE: reduces the weight of the wheel.
- OVERSIZED FLANGE: greater torsional stiffness and greater reactivity.

**FULL-CARBON RIM, 24.2mm WIDE, FOR TUBULARS:**

- Same rim as found on the Ultra™ version.
- New wider profile increases rigidity and the transmission of power to the wheel. Reduces stress, increases transversal equilibrium. This ensures extremely good stiffness and the transmission of braking torque resistance.
- AC3™ (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions.
- RIM DYNAMIC BALANCE: allows for the high degree of air penetration.
- SPOKES ANTI-ROTATION SYSTEM™: allows the spokes to maintain the best aerodynamic position.
- 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 HUB BODY: reduces friction, provides greater smoothness, and maintains performance over time.
- ALUMINIUM AXLE: reduces the weight of the wheel.
- OVERSIZED FLANGE: greater torsional stiffness and greater reactivity.

**WHEELS WEIGHTS:**

- Tubular: 1276 g
- Clincher: 1405 g

**FULL-CARBON RIM, 24.2mm WIDE, FOR CLINCHERS:**

- Perfect balance between weight and performance, positioning of the carbon fibre textures, creating a perfectly balanced rim when manufacturing carbon rims, the carbon fibre is aligned to create a perfectly balanced rim.
- 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.
- Full-carbon rim 24.2 mm for tubular, with manual positioning of the carbon fibre textures, creating a perfect balance between weight and performance, when matched with 25 mm tyres the Bora™ One reaches new levels of comfort.

**RIM DESIGN:**

- Full-carbon rim 23.5 mm for the clincher version and 24.2 mm for tubular, with manual positioning of the carbon fibre textures, creating a perfect balance between weight and performance, when matched with 25 mm tyres the Bora™ One reaches new levels of comfort.

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

- Modified version of the famous G3™ spoke pattern on the rear wheel.
- Modified version of the famous G3™ spoke pattern on the front wheel.
- Asymmetric forces are combated by using the G3™ spoke design, permitting improved spoke tension equilibrium. This ensures extremely good stiffness and reactivity, reinforcing the disc side to increase braking torque resistance.

**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 force transmission side.

**AVAILABLE F/W BODIES:**

- Campagnolo - HG - XDR
- Over Sized Flange: greater torsional stiffness and greater reactivity.

**EXCLUSIVE G3™ SPOKE PATTERN:**

- Improves tire/rim interface, thus improving handling and aerodynamics.

**SPokes ANTI-ROTATION SYSTEM™:**

- Allows the spokes to maintain the best aerodynamic position.

**SPOKES ANTI-ROTATION SYSTEM™:**

- Allows the spokes to maintain the best aerodynamic position.

**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 HUB BODY:**

- Reduces friction, provides greater smoothness, and maintains performance over time.

**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 characterise Campagnolo wheels.

Carbon rim with undirectional 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 TIRE:**
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 (balking from 32 mm and going up to the largest, 40/50 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 sacrificing performance.

**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 undirectional 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 CULT 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 as default on our new wheels, all equipped with a 36-tooth rack (diameter of ratchets: 33mm) to offer better resistance to torque.

**AVAILABLE F/W BODIES:**
Campagnolo N3W™ - HG - 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 surefooted 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.

TOROIDAL MILLING: reduces the peripheral weight of the rim - makes the wheel extremely reactive.

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)

SPOKES ANTI-ROTATION SYSTEM™: keeps the spokes in the position of maximum aerodynamic penetration.

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.

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.

AERO SPOKES IN ALUMINIUM: maximum aerodynamic penetration - lower weight and greater reactivity.

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

CARBON FIBRE HUB BODY: high degree of lateral stiffness – reduces the weight to the minimum.

ALUMINIUM AXLE: low weight, high stiffness.

OVERSIZED FLANGE: increases the torsional stiffness, increasing reactivity at each change of pace of the cyclist.

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

**REAR WHEEL**

**REAR WHEEL SPOKES:**
- 16 spokes in stainless steel section diameter 21/1,6/2 mm (left side).
- 5 spokes in stainless steel section diameter 21/4,6/2 mm (right side).

**FRONT WHEEL SPOKES:**
- 7 spokes in stainless steel section diameter 21/1,6/2 mm (cassette side).
- 7 spokes in stainless steel section diameter 21/4,6/2 mm (right side).

**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.

**ROB™ – RIM DYNAMIC BALANCE:**
- the concept is simple and elegant: balance the peripheral weight of the rim and makes the wheel extremely reactive.

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

**SPOKES:**
- 63° 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).
- 7 spokes in stainless steel section diameter 21/4,6/2 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 21/4,6/2 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.

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

**LOW TENSION UNDER MECH:**
- reduces tensile stress, increases structural resistance – makes rim tape unnecessary and reduces the weight of the wheel.

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

**DYNAMIC BALANCE**
- allows the external profile of the rim to be free of holes to benefit of both stiffness and weight.

**SUPERFLEX™**
- for the ideal spoke tension to be maintained at length, eliminating frictions on the rim. All this translates into constant high performance throughout the life of the product.

**SELF-LOCKING NIPPLES:**
- allow the ideal spoke tension to be maintained at length, eliminating frictions on the rim.

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

**ALUMINIUM HUB BODY:**
- provides a high degree of lateral stiffness.

**ALUMINIUM AXLE:**
- low weight, high stiffness.

**DIFFERENTIATED HUB DIAMETER FRONT AND REAR:**
- optimized for structural integrity and performance.

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

**DISC BRAKE PROJECT**

**Clincher: 1675 g**

**Clincher: 1540 g**

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 tire/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 roulers who looking to perform well on climbs. Every watt will enhance performance, every turn will be carried out with precision. Additionally, the very comfortable features of the 19mm internal width will shine in the Endurance segment.

**REAR WHEEL**
- **FRONT WHEEL**

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.

**REAR WHEEL**
- **FRONT WHEEL**
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®.

**RIM BRAKE**

**WHEELS**

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**

**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 TIRES:**
To permit the fitting of a wider type (25 mm minimum) allowing for easier tire fitting.

**GLUED RIM:**
Glued rim for increased precision on the braking surface allowing smoother progressive braking.

**MACHINED PRECISE SPOKE SEAT:**
Providing 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.

**G3™ FLANGE ON THE REAR WHEEL:**
To increase torsional stiffness and greater reactively 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).

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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®.

SUPER RECORD™ EPS™
98 g/Pair, cables included

SUPER RECORD™ EPS™
110 g/Pair, cables included

EPS™ BAR-END CONTROLS

1. AERODYNAMIC PROFILE:
   Maximum aerodynamic coefficient.

2. QUICK-RELEASE SYSTEM:
   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.

100% WATER-PROOF:
All control components are built to operate in any weather conditions in compliance with the IP67 standard.

EPS™ BRAKE CONTROLS

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. 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.

3. MULTI-SHIFTING SYSTEM™:
   Lets the rider shift up or down by up to 11 sprockets in a single action.

3. 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).

100% WATER-PROOF:
All control components are built to operate in any weather conditions in compliance with the IP67 standard.

DTI™ EPS™ BAR-END INTERFACE

V4 DTI™ EPS™ BAR-END INTERFACE

Designed for Triathlon and Time Trial bicycles, the EPS™ interface has two separate cable inputs for use both with Bar End levers and brake lever controls. This ultra-light component may be installed on either the brake cables or the handlebar mount.

Super Record™ EPS™ 12x2 Speed groupset uses the V4 interface.

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.

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EPS™ BRAKE CONTROLS

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2. QUICK-RELEASE SYSTEM:
   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.

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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 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.

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.

**SUGGESTED WHEELS**

Tubular: 864 g

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.

**FULL CARBON DISC IN A SPECIALY DEVELOPED WEAVE**

PROFILE: extreme new design reduces profile on both drive and non-drive sides for an even stiffer 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.
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.

Tubular: 1625 g (pair)

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 spoke 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 climb podiums and crush records on the wooden boards of the track.

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 and design allows for solid and stable stance that transfers power towards forward motion as opposed to allowing lateral flex or torsion.

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.

FRONT WHEEL REAR WHEEL

SPOKES WITH AERODYNAMIC PROFILE: provides the maximum aerodynamic penetration. Reduces aerodynamic drag saving rider energy.

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: elegant polished finish is result of advanced and patented production technique. Eliminating need for paint keeps weight lower.

ROB™ 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.

CUP AND CONE BEARINGS

ALUMINIUM AXLE

CARBON FIBRE HUB: provides a high degree of lateral stiffness and reduces weight to the minimum.

CULT™ The hub of this new wheelset was developed in a way to house Campagnolo’s ultra-smooth and efficient CULT™ Ceramic Bearing Technology. It is 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.

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.
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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**GROUPSETS**

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### GRAVEL GROUPSETS

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OPTIONS</th>
<th>WEIGHT [g]</th>
<th>WEIGHT REFERENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>EKAR™ rear derailleur</td>
<td>-</td>
<td>275</td>
<td>standard hanger version</td>
</tr>
<tr>
<td>EKAR™ Ergopower™ DB controls</td>
<td>-</td>
<td>420</td>
<td>Pair</td>
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<tr>
<td>EKAR™ crankset</td>
<td>165 mm, 170 mm, 172,5 mm, 175 mm, 38, 40, 42, 44</td>
<td>615</td>
<td>172,5 mm, 38</td>
</tr>
<tr>
<td>PRO-TECH™ threaded cups</td>
<td>ITA: 70s (36x24 tpi) BSA: 68x1 (1,37&quot;x24 tpi)</td>
<td>50</td>
<td>BSA</td>
</tr>
<tr>
<td>PRO-TECH™ press-fit cups</td>
<td>BB30: 18x42 mm BB68: 86,5x61 mm PF30: 38x62 mm BB386: 88,5x61 mm BB104: 78x62 mm BB30A: 77x6b 1x7x6b 2x7x6b</td>
<td>50</td>
<td>BB30</td>
</tr>
<tr>
<td>EKAR™ chain</td>
<td>117 links / C-Link 118 links / Classic Pin</td>
<td>242</td>
<td>117 links</td>
</tr>
<tr>
<td>EKAR™ caliper</td>
<td>160 mm</td>
<td>95</td>
<td>140 mm (11 piece - pads included)</td>
</tr>
<tr>
<td>EKAR™ rotor</td>
<td>160 mm</td>
<td>123</td>
<td>140 mm (11 piece)</td>
</tr>
<tr>
<td>COMPLETE GROUPSET</td>
<td></td>
<td>2,385</td>
<td>2 calipers 2 rotors</td>
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### EXTRA COMPONENTS

<table>
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<tr>
<th>COMPONENT</th>
<th>OPTIONS</th>
<th>CATEGORY</th>
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<tbody>
<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>50 ml</td>
<td>Disc Brake</td>
</tr>
<tr>
<td>Bleeding Kit</td>
<td>-</td>
<td>Disc Brake</td>
</tr>
<tr>
<td>140 mm to 140 mm Rear Caliper adapter</td>
<td>-</td>
<td>Disc Brake</td>
</tr>
<tr>
<td>EKAR™ Bottle cage</td>
<td>-</td>
<td>General</td>
</tr>
<tr>
<td>EKAR™ Bottle</td>
<td>550 ml</td>
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### ROAD GROUPSETS

<table>
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<tr>
<th>COMPONENT</th>
<th>OPTIONS</th>
<th>WEIGHT (g)</th>
<th>WEIGHT REFERENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPER RECORD™ EPS™ rear derailleur</td>
<td>compatible with sprocket sets 11-29, 11-32</td>
<td>236</td>
<td>cables included</td>
</tr>
<tr>
<td>SUPER RECORD™ EPS™ Ergopower™ DB controls</td>
<td>-</td>
<td>381</td>
<td>Pair (cables included)</td>
</tr>
<tr>
<td>SUPER RECORD™ EPS™ front derailleur</td>
<td>-</td>
<td>132</td>
<td>cables included</td>
</tr>
<tr>
<td>DI™ EPS™ V4 Power Unit</td>
<td>-</td>
<td>135</td>
<td>cables included</td>
</tr>
<tr>
<td>DI™ EPS™ V4 External Interface</td>
<td>33</td>
<td>cables included</td>
<td></td>
</tr>
<tr>
<td>DI™ EPS™ V4 Internal Interface</td>
<td>-</td>
<td>11</td>
<td>cables excluded</td>
</tr>
<tr>
<td>SUPER RECORD™ rim brake</td>
<td>165 mm, 170 mm, 172.5 mm, 175 mm</td>
<td>618</td>
<td>172.5 mm, 34-50 (2 bearings assembled)</td>
</tr>
<tr>
<td>SUPER RECORD™ cranks</td>
<td>165 mm, 170 mm, 172.5 mm, 175 mm</td>
<td>618</td>
<td>172.5 mm, 34-50 (2 bearings assembled)</td>
</tr>
<tr>
<td>SUPER RECORD™ Ultra-Torque™ threaded cups</td>
<td>ITA: 70x (36x24 tpi)</td>
<td>43</td>
<td>BSA</td>
</tr>
<tr>
<td>ULTRA-TORQUE™ press-fit cups</td>
<td>BSA: 68x (1.37”x24 tpi)</td>
<td>40</td>
<td>BB86</td>
</tr>
<tr>
<td>SUPER RECORD™ sprockets</td>
<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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<td>160 mm Front</td>
<td>118</td>
<td>160 mm Rear (1 piece - pads included)</td>
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<tr>
<td>CAMPAGNOLO® rotor</td>
<td>140 mm</td>
<td>99</td>
<td>140 mm (1 piece)</td>
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<tr>
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<td>2,497</td>
<td>2 calipers 2 rotors</td>
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<tr>
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<td>Accessory</td>
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<tr>
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<td>Front Derailleur barrel adjuster</td>
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<td>RECORD™ front hub</td>
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**BRAKE**

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**COMPLETE GROUPSET**

|                         |         | 2.493 |

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<td>RECORD™ rear hub</td>
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**TRIATHLON / TIME-TRIAL**

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# AERO CARBON WHEELS

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<thead>
<tr>
<th>Model</th>
<th>Rim Material</th>
<th>Hub Material</th>
<th>RIM FINISHING</th>
<th>HUB FINISHING</th>
<th>18/24mm</th>
<th>18/24mm</th>
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<th>32/24mm</th>
<th>HUB FINISHING</th>
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# PERFORMANCE CARBON WHEELS

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<tr>
<th>Model</th>
<th>Rim Material</th>
<th>Hub Material</th>
<th>RIM FINISHING</th>
<th>HUB FINISHING</th>
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<td>130</td>
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## TECH DATA

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

#### ALUMINIUM WHEELS

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<thead>
<tr>
<th>Wheel Model</th>
<th>Spoke Type</th>
<th>Rim Finish</th>
<th>Rim Finishing</th>
<th>Hub Body Material</th>
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* Average weight - does not include the quick-release and the rim-tape - wheel weight may vary depending on the tolerance of the production process.

### TECH DATA

**TECH DATA**

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<tr>
<th>Key</th>
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<td>AERO</td>
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<td>UA</td>
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<tr>
<td>SS</td>
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<tr>
<td>BR</td>
<td>Bronze</td>
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<tr>
<td>S</td>
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172 WHEELS
## ROAD - DISC BRAKE

### AERO CARBON WHEELS

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### PERFORMANCE CARBON WHEELS

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<td>BORA™ ONE 35 DB front tub.</td>
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### ENDURANCE CARBON WHEELS

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<td>SHAMAL™ CARBON DB 2-Way Fit™ rear (HG)</td>
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<td>SHAMAL™ CARBON DB 2-Way Fit™ rear (XDR)</td>
<td>alu 100 alu • U black •</td>
</tr>
</tbody>
</table>

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

**KEY**
- SS: Stainless steel
- ALU: Aluminum
- S: Satin
- U: Ultra-Aero
- SDB: Spoke Dynamic Balance
- AE: Aero
- BLK: Black
- CULT™: Culture™
- UAE: UAE
- BR: Brass
- US: Ultra-Satin
- 24/03™: 24x03mm

**O.L.D. (Outside Live Axle Distance)**
- 142mm: 142mm

**NIPPLE MATERIAL**
- SDB: Stainless steel
- S: Satin
- BD: Black"
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 forfeiting 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.