



INDEX

		FRO	Jys- nce ^m 2021
JAE Fritates Fritates Fritates Fritates Fritates			
Emirae irates En	U/AE Emitates 10 10 10 10 10 10 10 10 10 10 10 10 10 1		UAE Emitates Line B

TADEJ POGAĐAR (UAE TEAM EMIRATES) WINNER OF THE 2020 AND 2021 TOUR DE FRANCE WITH CAMPAGNOLO GROUPSET AND WHEELS

	TEAMS 2021 CAMPAGNOLO® E-STORE			4 6
GROUPSETS	GRAVEL GROUPSETS			8
	$EKAR^{\scriptscriptstyleTM}$	1x13 Speed	Disc Brake	10 - 19
	ROAD GROUPSETS			20
	GROUPSET TECHNOLOGIES			
	SUPER RECORD™ EPS™ SUPER RECORD™	12x2 Speed 12x2 Speed	Disc Brake - Rim Brake Disc Brake - Rim Brake	72 - 75 76 - 79
	$RECORD^{\scriptscriptstyleTM}$	12x2 Speed	Disc Brake - Rim Brake	80 - 83
	CHORUS™	12x2 Speed	Disc Brake - Rim Brake	84 - 87
	CENTAUR™	11x2 Speed	Rim Brake	88 - 89
WHEELS	WHEEL TECHNOLOGIES			92 - 115
	PERFORMANCE/AERO CA BORA™ ULTRA WTO 60 BORA™ ULTRA WTO 45 BORA™ ULTRA WTO 33 BORA™ ULTRA TT BORA™ WTO 77 BORA™ WTO 60 BORA™ WTO 45 BORA™ WTO 33 BORA™ ULTRA™ 50 BORA™ ULTRA™ 50 BORA™ ULTRA™ 35 ENDURANCE CARBON WH		Disc Brake Disc Brake Rim Brake Rim Brake Disc Brake - Rim Brake Disc Brake - Rim Brake Disc Brake - Rim Brake Rim Brake Rim Brake Rim Brake	116 119 120 121 122 123 124 - 125 126 - 127 128 - 125 130 131
	ALUMINIUM WHEELS SHAMAL™ ULTRA™ ZONDA™ SCIROCCO™ CALIMA™		Rim Brake Disc Brake - Rim Brake Disc Brake - Rim Brake Rim Brake	136 137 139-139 140 - 141
TRIATHLON / TT	COMPONENTS BORA™ ULTRA™ TT SUGGESTED WHEELS		Rim Brake	148 152 153
PISTA	WHEELS GHIBLI™ BORA™ ULTRA™ 80			154 156 157
TECH DATA	GROUPSETS WHEELS SERVICE CENTER - SALE	S NETWORK		159 170 176

2

2022 UCI WORLD TEAMS

-lampagnolo:

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 2022, 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.

UAE TEAM EMIRATES







AG2R







COFIDIS



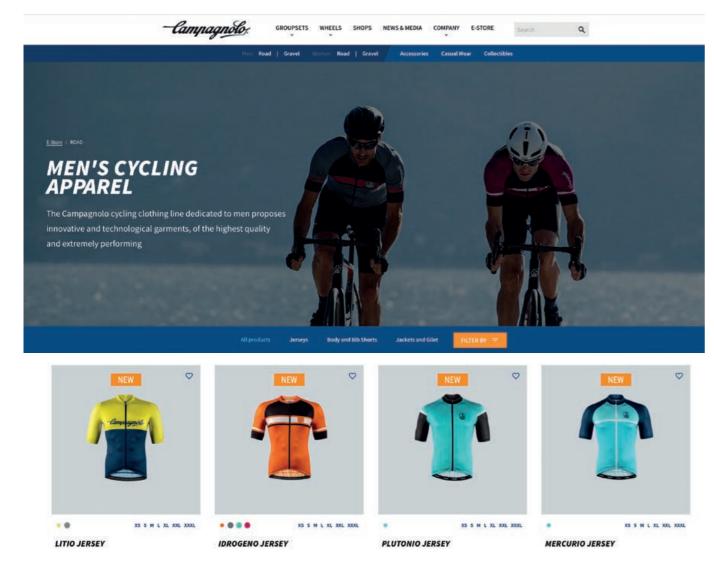


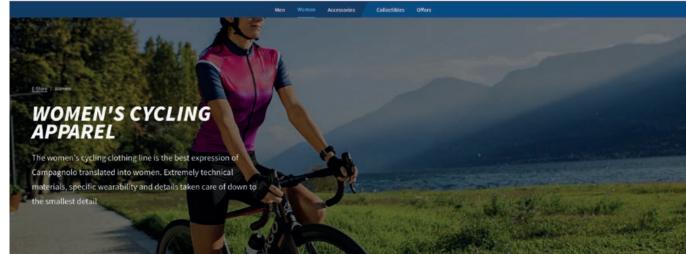


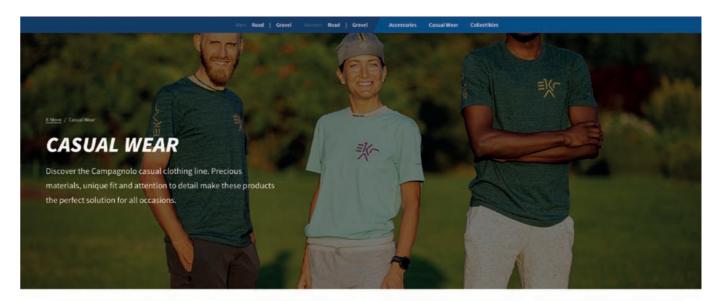
4 UCI WORLD TEAMS 5

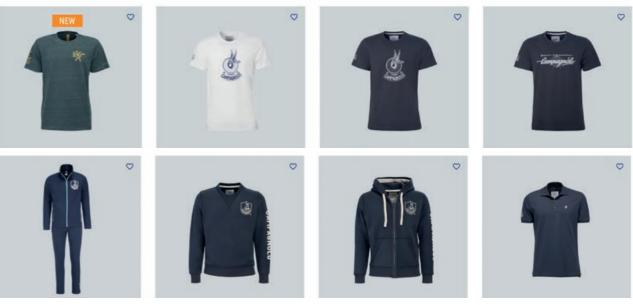
E-STORE CAMPAGNOLO®

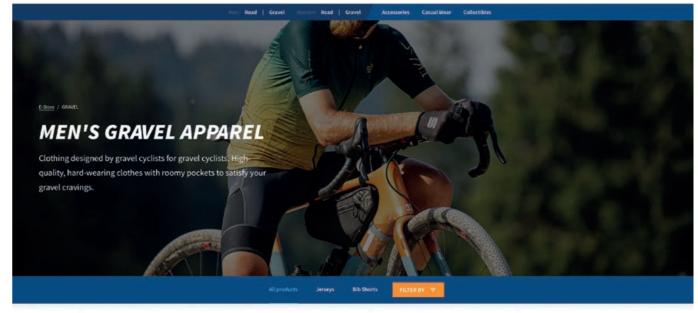
As the hashtag says, #thoseintheknow choose Campagnolo® and those that choose Campagnolo® do so not only because they are sure of getting their hands on some of the most performance oriented, reliable and sophisticated componentry for cycling available but also due to what Campagnolo® represents. Products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













6 E-STORE CAMPAGNOLO 7

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!



Ekar™ Rear Derailleur

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.



FEATURES & BENEFITS

New design for 1x13-speed system – gravel-orientated performance & build 2D parallelogram trajectory – precise mechanical movement for 13 sprockets High grade polymer pulley wheels (12T upper, 14T lower) – smooth chain running & secure retention Carbon fiber-reinforced polyamide & anodised 7075 and 6082 alloys – for light weight, strength & durability Stainless steel bolts – for strength & long-term resilience on gravel Clutch lock - for easy wheel removal

One derailleur fits all three cassette options – easy to switch for gearing changes
Weight: 275 q



Ekar™ Ergopower™ controls

PFor 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™ Ergopwer'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!



FEATURES & BENEFITS

Comfortable support - Vari-Cushion™ hood provides comfortable, safe grip in any riding position and any off-road conditions

Precise, quick shifting - One-Lever-One-Action and positive engagement with the efficient 1x13-speed Ekar drivetrain

means a perfect change every time

New Lever 3 design – easy to activate from the tops

Enhanced grip – additional laser-cut texture on lever blades and controls is sweat- and wear-resistant

Multiple action – up-shift 3 gears with Ultra-Shift™

Ergonomic adjustable reach – to suit any hand or finger size
Weight: 420 g

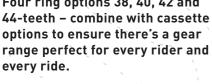
10

Ekar™ Crankset

The 1x crankset is a crucial element in Campagnolo's gravel-specific Ekar™ drivetrain design.

Lightweight, securé and simple up front, with no wasted overlapping gears or unnecessary moving parts to collect trail dirt - one chainring 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™ New Pro-Tech™ technology joins the two semiaxles 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





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 ProTech™ 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)

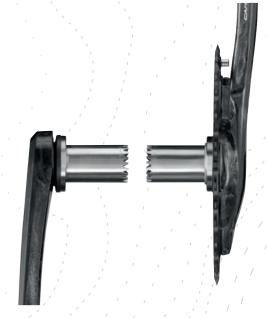


Ekar™ Pro-Tech™ Bottom Bracket

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 groupset.

So we made the new Pro-Tech™ system: a gravelorientated 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.





FEATURES & BENEFITS

Designed specifically for gravel riding and racing - protected from harmful ingress of water, mud & grit ProTech ™- 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, BB386, PF30, BB RIGHT, T47

Weight: 50 q





Ekar™ Cassette

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 détails 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.



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
Combinations: Endurance: 9-36T (9-10-11-12-13-14-16-18-20-23-27-31-36)
Gravel Race: 9-42T (9-10-11-12-13-14-16-18-21-25-30-36-42)
Gravel Adventure: 10-44T (10-11-12-13-14-15-17-20-23-27-32-38-44)
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 qr (9-36T)/ 390 qr (9-42T)/415 qr (10-44T)





Ekar™ Chain

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.



FEATURES & BENEFITS

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)





Ekar™ Brakes

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' trusted modulation and progressive feel are perfect for all-road control, whatever your style and whatever the conditions.

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.

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

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.

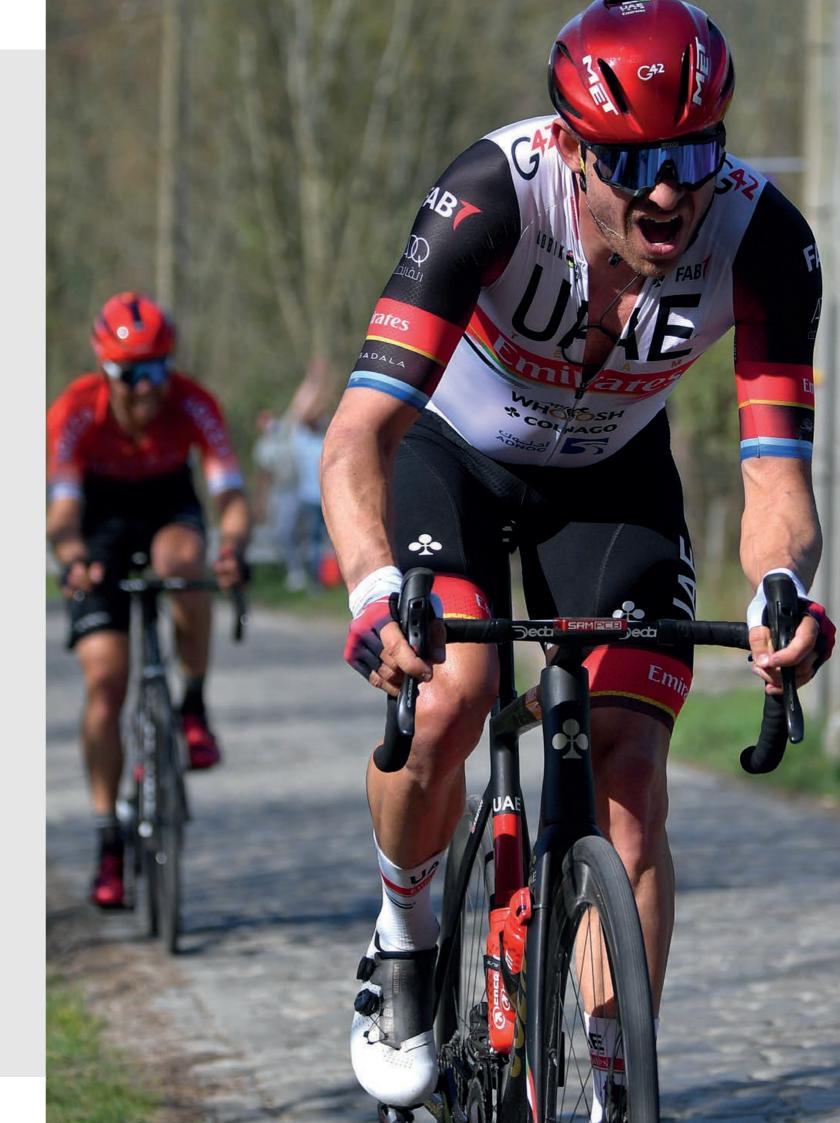
VANTAGGI & CARATTERISTICHE
Trusted modulation and progressive feel perfect for all-road control
140 and 160mm rotors -

to suit your riding style and bike Weight: 157 gr (160mm) / 123 gr (140mm)



GROUPSETS FOR RACING BICYCLES

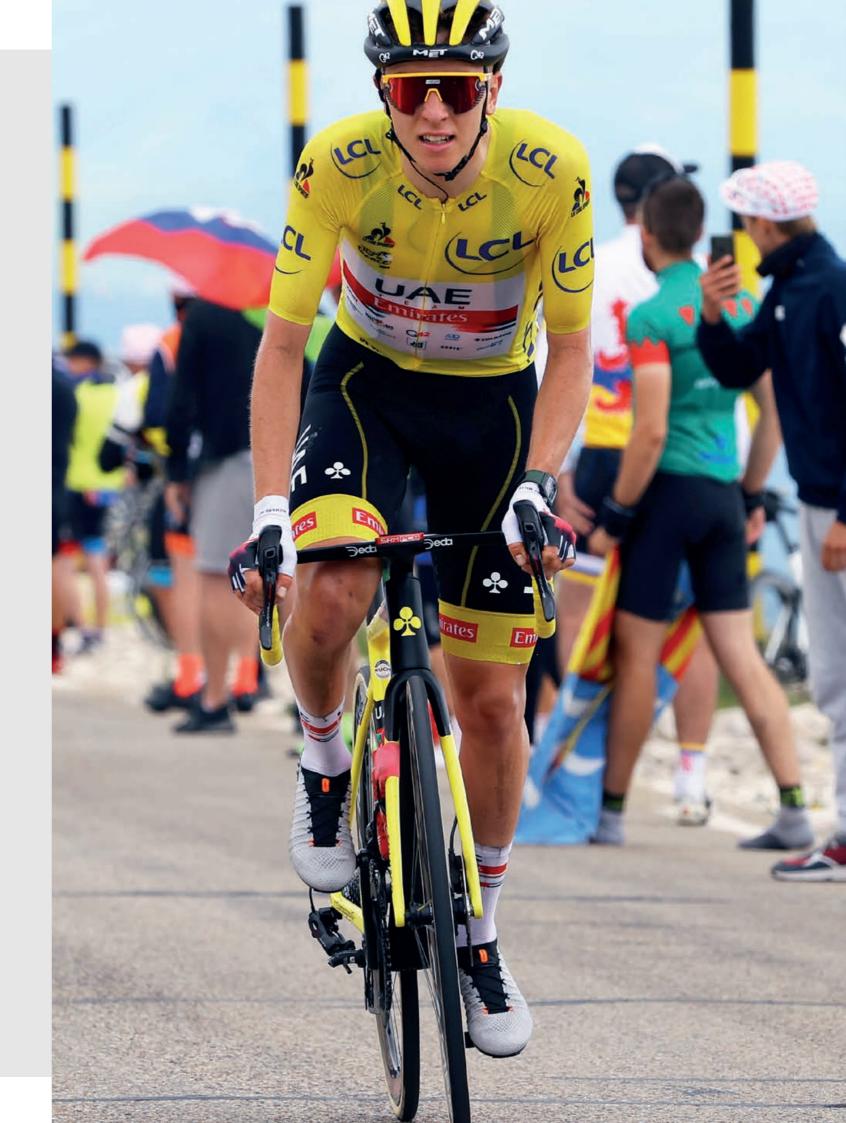
GROUPSET TECHNOLOG	22 - 71		
SUPER RECORD™ EPS™ SUPER RECORD™	12x2 Speed 12x2 Speed	Disc Brake - Rim Brake Disc Brake - Rim Brake	72 - 75 76 - 79
RECORD™	12x2 Speed	Disc Brake - Rim Brake	80 - 83
CHORUS™	12x2 Speed	Disc Brake - Rim Brake	84 - 87
CENTAUR™	11x2 Speed	Rim Brake	88 - 89

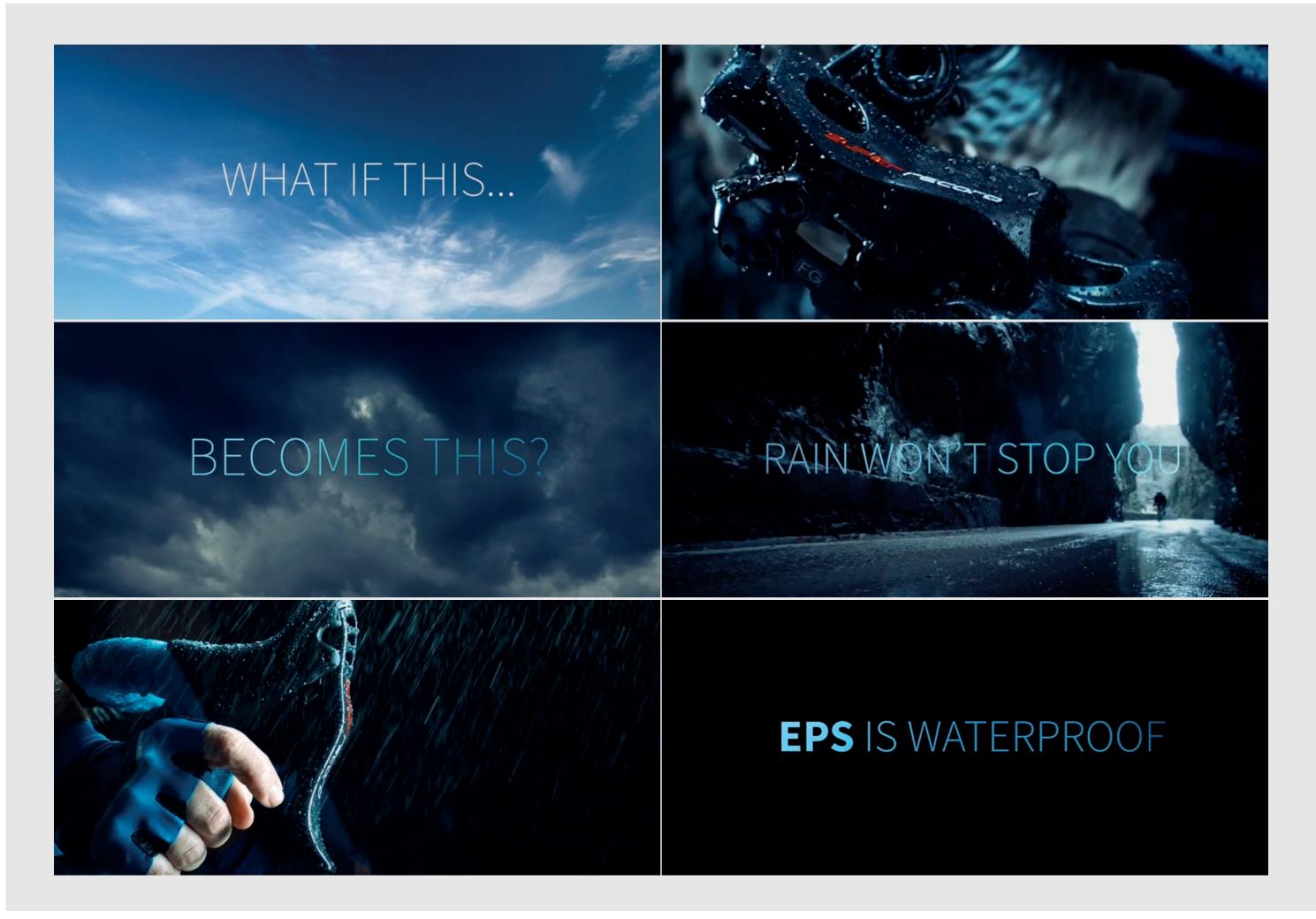


12x2 SPEED

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.





POWER UNIT

POWER UNIT V4

V4 Power Unit

New Design, New Possibilities





INTERFACE V4

V4 Interface External version

Same aerodynamic design, new 12 speed specific intelligence

INTERFACE

Command center

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

Longer and Longer Lasting:

10% longer battery life



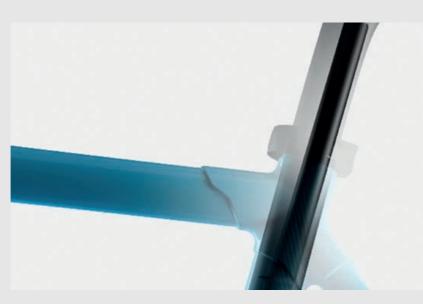


V4 Interface Internal version:

Option 1 - BAR END

Slim structure compatible with nearly all frames

Seat post adaptor allows for easy internal mounting





V4 Interface Internal version:

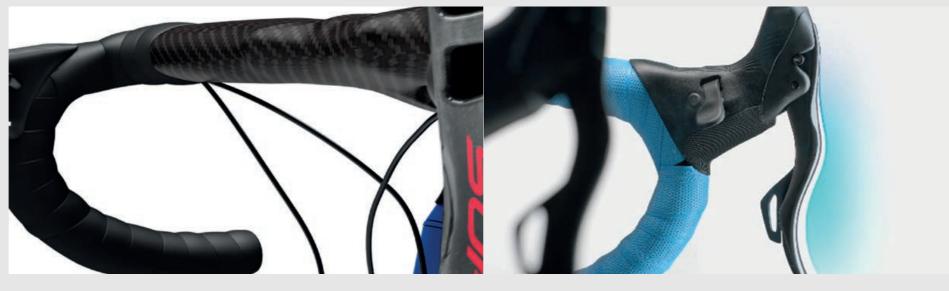
Option 2: FRAME

CABLES AND HOUSING

ERGOPOWER EPS

New transmission

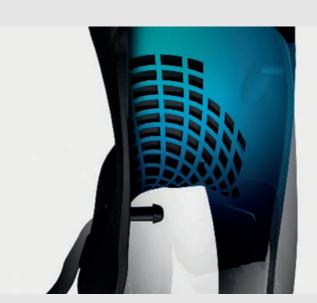
offers some of the smoothest and most effortless shifting ever produced by Campagnolo



Improved and customizable ergonomics

New cables and housing drastically reduce friction





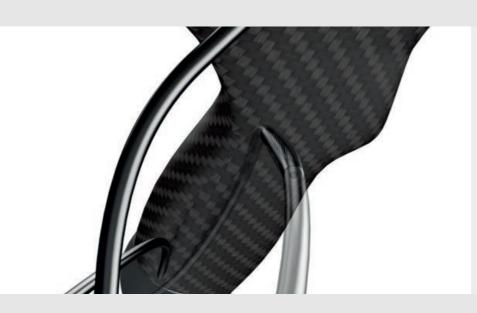
New hood design:

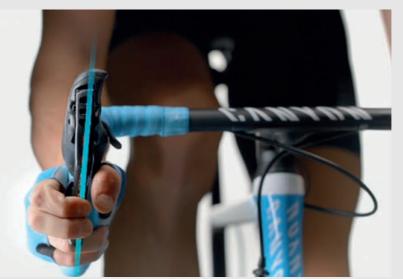
Vari Cushion Technology

Maintain exceptional smoothness far beyond those of the competition

THE MAXIMUM SMOOTHNESS

maximum performance longevity





Upgraded brake lever

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

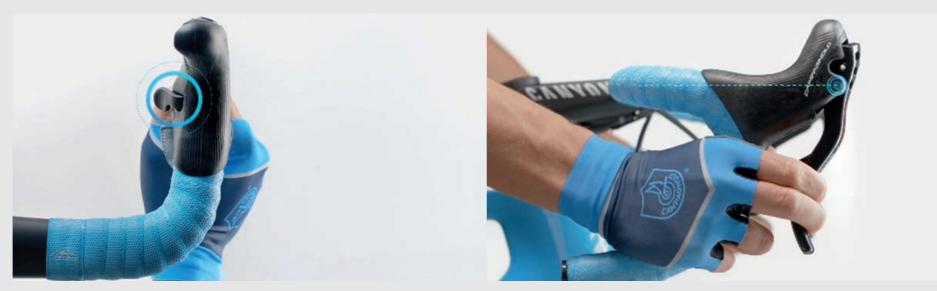
ERGOPOWER EPS ERGOPOWER EPS

ERGOPOWER™ super record ers



ERGOPOWER™

Larger thumb shifting lever



Braking lever pivot aligned with slant of Ergopower

Better, more efficient power transfer requiring less energy from riders

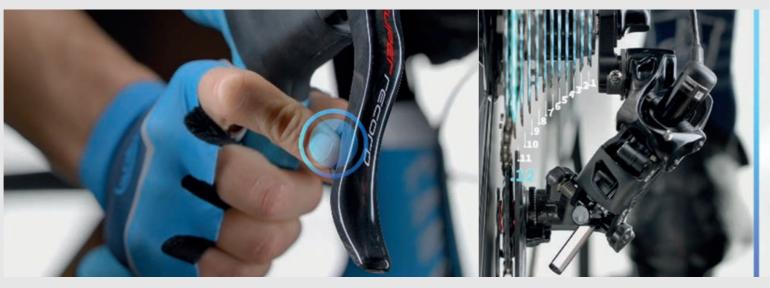
Upshifting lever enlarged





One lever One action

Upshifting lever incorporated into brake lever





Multi-Shift mechanism maintained

Upshift up to 12 sprockets

Downshift up to 12 sprockets

ERGOPOWER EPS ERGOPOWER EPS DB

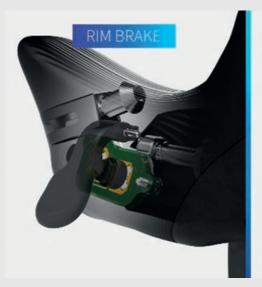
ERGOPOWER™ super record ers



ERGOPOWER™ DB

Solid, robust and reliable internal design

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







ERGOPOWER EPS DB

Master cylinder: low profile made possible via fantastic design

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

Multi-dome Technology



ERGOPOWER EPS DB

Complete customization

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

Mode Button



ERGOPOWER EPS DB

AMS

Not only ergonomics but also performance.

AMS setting allows for fine-tuning of brake performance and free stroke to meet each individual cyclists personal preference

EPS FRONT DERAILLEUR EPS FRONT DERAILLEUR

FRONT DERAILLEUR SUPER RECORD EPS



FRONT DERAILLEUR

Campagnolo motors

Extreme strength and precision

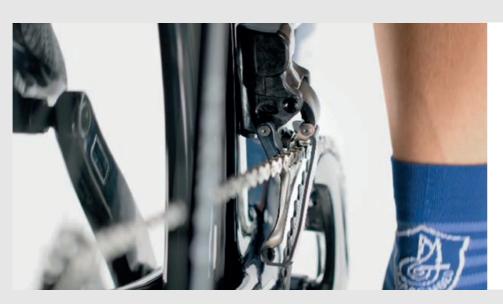




Thin cage and specific setting for crossings

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

EPS REAR DERAILLEUR EPS REAR DERAILLEUR

REAR DERAILLEUR SUPER LECORD EPS



Trajectory curve optimized for 11-29 and 11-32 cassettes

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



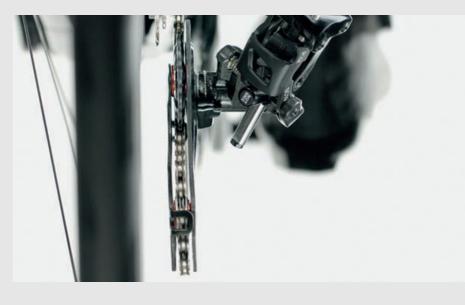


Upper body in alluminum:

fantastic resistance to impact

Thinner internal cage width

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





Multi-Shift Technology

Precise and lightning fast shifting performance up to 11 sprockets at a

Traditional mech hanger specific rear derailleur geometry





No compromise construction

Lightning fast Extremely strong Extremely resistant

ERGOPOWER™ FOR THE COLD TO TH



ERGOPOWER™

Improved ergonomics

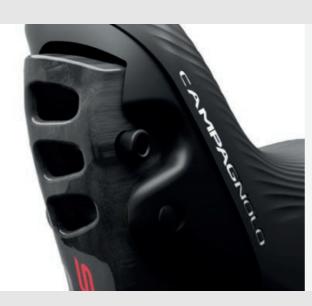




Upgraded brake lever

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

Customizeable ergonomics





Larger thumb shifting lever

New hood design Vari Cushion technology





Upshifting lever enlarged

ERGOPOWER™





ERGOPOWER™

Upshifting lever incorporated into brake lever





Ultra Shift™ mechanism maintained

up to 5 sprockets in downshifting -Unique to Campagnolo

up to 3 gears in upshifting

Breaking lever pivot aligned with slant of Ergopower™

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





One lever One action





Completely redesigned internals

perfect compatibility with completely new rear derailleur

FRONT DERAILLEUR





FRONT DERAILLEUR

Completely new design builds upon successes of Rev11+





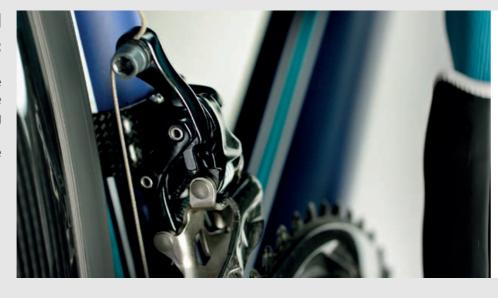
Thin cage and specific setting for crossings

A prompt reply of the front derailleur is guaranteed when shifting

Separation of semi-rod from external rod:

Eliminates free stroke Quicker, more immediate, reactive front upshifting

New Design and Trajectory Angle





Inner semi-cage design optimized for excellent chainring engagement

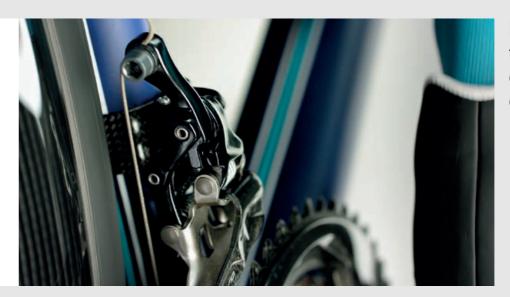
Maximum values of shifting fluidity thanks to the cage which helps the chain in engaging the chainring

Dual position of cable grip bolt

Allows for use of tires up to 32mm

Allows for cable position to be adapted to specific needs: customizeable for differing tire sizes and frame designs





Dedicated positions for each chainring and each scenario for each chainring

REAR DERAILLEUR 🗲





REAR DERAILLEUR

Upper body in ULTRA-LIGHT technopolymer reinforced with UD Carbon Fiber

Extremely low weight, with same Campagnolo resistance and rigidity





One Rear Derailleur fits all

Unique medium size cage, 72,5mm

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





One Rear Derailleur fits all

Allows uniform performance between 11-29, 11-32 and 11-34 cassette

3D-Embrace technology

Embrace envolved --> from 2D to 3D

The inner mechanism allows rear derailleur to embrace more teeth per sprockets thanks to the advanced position of the upper pulley (2D). This allows to have really high values of torque resistance even on the 11 sprocket and to have the same chain length even changing cassette or chainrings

Unique position of the upper wheel pulley
The upper wheel moves to the same
position (compared to the sprocket)
independently from the chainring
engaged. This is obtained with a
gearwheel system which works better
that the competitor's spring system





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

REAR DERAILLEUR 😤





REAR DERAILLEUR

Thinner internal cage width

Larger gap between rear derailleur cage and spokes in rotation

More reliable design

Increased safety of rider and product

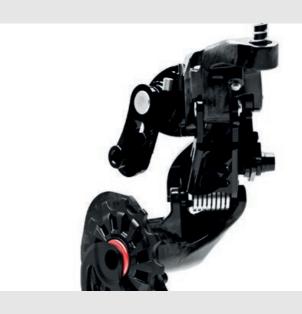
Easier adjustment of rear derailleur





Travel limit screws on back of upper body

Upper body adjustment





Upper body return spring

Absorbs road vibration and protects integrity of rear derailleur

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





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







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

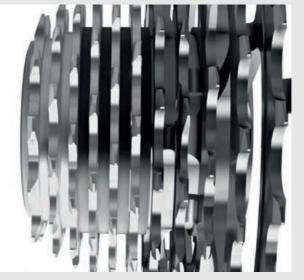
CASSETTES SUPER PECOPO

SUPER RECORD

CASSETTES

Extra gear in cassette without increasing width = reducing space between cogs as well as width of individual cogs





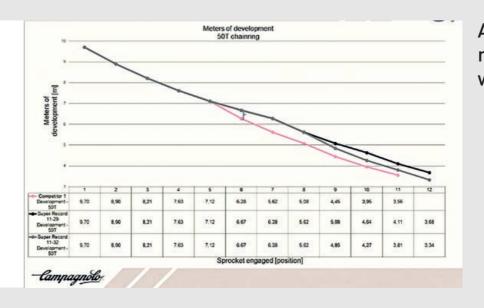
Machined aluminum spacers

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

Lay-out with the last 2 triplets in monolithic steel

Maximum stiffness in the biggest sprockets



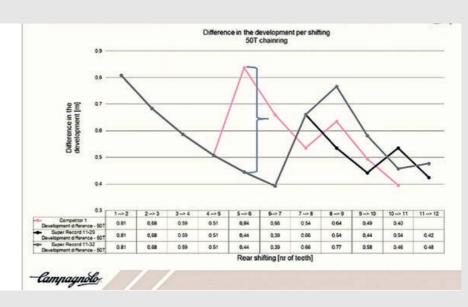


An extra gear makes for more efficient gearing with less gaps

Technical treatment on the sprocket surface

Increasing the sprocket life via chemical intervention





Metric development remains linear

CRANKSET

Smoother, more aerodynamic design





Ultra torque titanium axle

Closure on left crank

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





CULT™ ceramic bearings

Q factor unvaried: 145.5 mm





Improved 4 arm spider design:

Optimized bolt circle diameter: 8 bolt design locates bolts in perfect position for each independent chaining

Increased stiffness, rigidity and as a consequence reactivity

Optimized component integrity and reliability

112 mm + 145 mm

52 GROUPSETS 12x2 SPEED 53

CRANKSET SUPER TECOTO

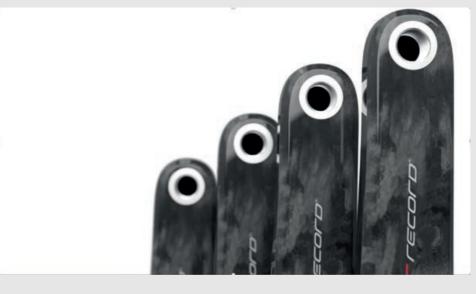
SUPERFECORD

CRANKSET

Structural rigidity improved via added support material on larger chainring

Reinforced "brace" adds structural integrity to component where highest torque applied





Internally developed hard anodization process

Increases integrity and longevity of component

One crankset fits all:

50/34 52/36 53/39



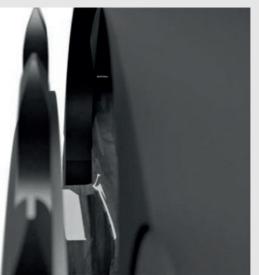


Symmetrical turning on the inner chainring teeth

Increased versatility and lower friction in situations of extreme chain crossing

Available in 4 lengths: 165, 170, 172.5, 175





Chainring combination specific shifting designs

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

Tooth design specific to chainring combination

Ensures optimum location of shift zones during pedal stroke

Considers differing diameter between standards

BRAKES SUPERFECTOR



BRAKES

Traditional rim New aerodynamic design

Smooth contours





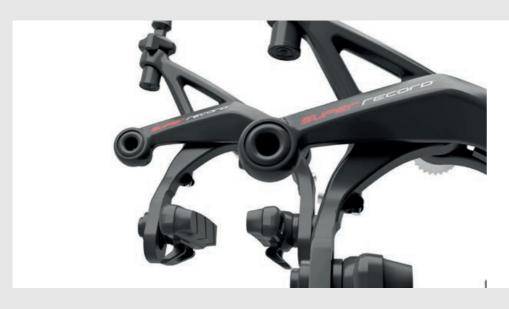
Lever Movement on bearings

Increased smoothness

Aids in modularity

New aerodynamic design

Overall form more coherent with aero frames





Traditional rim
Brake shoe with exclusive
attach / release system for
brake pads

Compatibility with tires up to 28mm in width

Perfect for both C7 and C19 inner width rims





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)

56 GROUPSETS TECHNOLOGIES 57

ERGOPOWER™ DB





ERGOPOWER™ DB

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.





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.

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.





New forms for the upshifting levers

Larger and easier to find

Externally oriented for easy reach

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

COMPACT
Vertical position for optimum bleeing
and functionality

Bleeding port on top extremity

Single cylinder design(same for right and left)



New forms for the upshifting levers

Profiled to match perfectly with the contours of the brake lever

ERGOPOWER™ DB

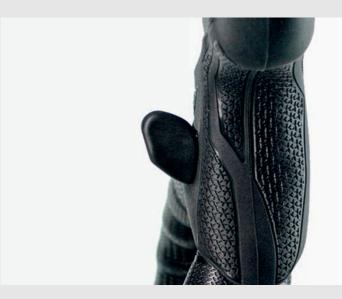




ERGOPOWER™ DB

New forms for the downshifting lever

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





One lever action is maintained

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 cyclists personal
preference.





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





New internals:

Specifically designed for new componentry

Indexing and throw specific to 12 speed

Improved leverage and reduced force design

ERGOPOWER™ DB

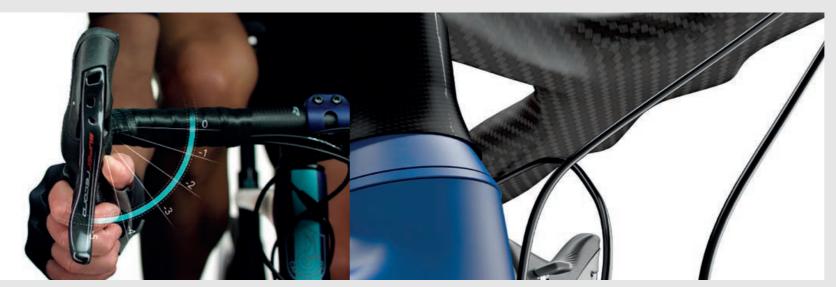




ERGOPOWER™ DB

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.



CABLES

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

Freestroke elimination in upshifting



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

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





Not only extremely smooth but very durable performance

Forged aluminum for optimum system integrity and rigidity







CALIPERS

Two screw system:

eliminates additional componentry

fewer pieces = less weight

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





Two screw system:

simpler construction increases integrity and performance all bolts visible for inspection, reducing risk and increasing safety

Calipers mount by use of only two screws



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

CALIPERS

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





CALIPERS

Visible wear indicator:

included in pad construction

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

Brake Pads

Organic resin pad compound:

extremely resistant to heat

provides uniform and consistent braking performance despite varied temperature or climatic conditions





Roll Back:

ensures smooth and efficient pedaling

Frame:

high performance pad requires highly resistant frame

special steel structure ensures system integrity under duress



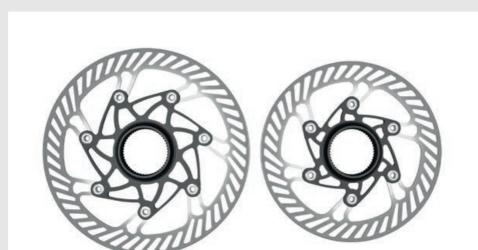


0,4mm distance guaranteed by Campagnolo is even with industry leader

66 GROUPSETS TECHNOLOGIES 67

DISC

AFS Axial Fixing System





Campagnolo disc brake rotors:

DISC

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

Rounded edge to ensure maximum safety





Total Unit Extreme Heat Resistance:

performance and safety guaranteed

Fundamental key to extreme performance and safety

extreme resistance to heat





Resistance to heat Tests

68 GROUPSETS TECHNOLOGIES 69









Download MyCampy[™] today and experience Campagnolo® like never before.

Some of its principal functions include:

MyGarage[™]:

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

MyEPS[™]:

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

MySessions[™]:

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

Campagnolo® World:

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





















CAMPY OF CAM

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.

TECHNOLOGIES 71 70 GROUPSETS



With the popular disc brake system and introduction of the 12-speed, Campagnolo **Super Record™ EPS™** now ticks all the boxes on the market for maintaining its historic role as a benchmark in terms of performance and quality for more demanding cyclists.

SUPER RECORD™ EPS™ REAR DERAILLEUR

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

DTI™ EPS™ V4 INTERFACE

DIALOGUE WITH "MYCAMPY" APP: wireless system to communicate with "MyCampy" App by PC / Notebook / Tablet / Smartphone (BTLE), which allows the EPS groupset holder to personalize its own settings - EASY ACCESS TO THE CHARGING PORT - "ZERO SETTING" AND "RIDE SETTING" - LED RGB - TWO VERSIONS AVAILABLE: EXTERNAL (33 g) INTERNAL (on handlebar or frame)

SUPER RECORD™ EPS™ FRONT DERAILLEUR

_ 12×2

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 POWER UNIT

SEATPOST MOUNT COMPATIBLE - SPECIALLY DEVELOPED INTERNAL CASING DESIGNED TO MAKE SYSTEM 100% WATERPROOF - DTI $^{\rm IM}$ DIGITAL TECH INTELLIGENCE - SEAT TUBE/ DOWN TUBE ADAPTOR MOUNT - +10% AUTONOMY COMPARED TO THE V3

SUPER RECORD™ CHAIN

12x2

ULTRA-LINK™ CHAIN LINKS 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

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™ CRANKSET

, 12x2

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

CAMPAGNOLO® CALIPER

FLAT MOUNT STANDARD - AVAILABLE CALIPERS: 160 mm FRONT (123 g PADS INCLUDED), 140 mm AND 160 mm (115 g / 119 g PADS INCLUDED) - ADAPTER FOR USE ON 140 mm FRONT - 22mm 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

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 - MULTIDOME TECH ON THE DOWNSHIFTING LEVER

CAMPAGNOLO® 03 ROTOR

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

72 GROUPSETS 73

220 g



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

SUPER RECORD™ EPS™ REAR DERAILLEUR

, 12×2

, iexe

HIGH TORQUE, HIGH DRIVE RATIO MOTORS - SPECIAL T.I.N.™

TREATMENT - FRONT PLATE AND CAGE IN CARBON FIBRE - MULTISHIFTING™ TECHNOLOGY - POSITION SENSOR - LOWER BODY IN
MONOLITHIC CARBON POWDER TECHNOPOLYMER - UPPER BODY IN
ALUMINIUM - EXCLUSIVE "UNLOCK SYSTEM™" - 100% WATERPROOF

DTI™ EPS™ V4 INTERFACE

12×2

DIALOGUE WITH "MYCAMPY" APP: wireless system to communicate with "MyCampy" App by PC / Notebook / Tablet / Smartphone (BTLE), which allows the EPS groupset holder to personalize its own settings - EASY ACCESS TO THE CHARGING PORT - "ZERO SETTING" AND "RIDE SETTING" - LED RGB - TWO VERSIONS AVAILABLE: EXTERNAL (33 g) INTERNAL (on handlebar or frame)

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 POWER UNIT

SEATPOST MOUNT COMPATIBLE - SPECIALLY DEVELOPED INTERNAL CASING DESIGNED TO MAKE SYSTEM 100% WATERPROOF - DTI™ DIGITAL TECH INTELLIGENCE - SEAT TUBE/ DOWN TUBE ADAPTOR MOUNT - +10% AUTONOMY COMPARED TO THE V3

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

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.

168 g*

<u>ie×=</u> Super record™ crankset

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

SUPER RECORD™ BRAKES

MOVEMENT OF LEVERS ON BEARING - SPECIAL COMPOUND - EXCLUSIVE BRAKE PAD COUPLING/UNCOUPLING SYSTEM - DUAL PIVOT BRAKES - NEW FRONT LEVER DESIGN FOR MAXIMUM AERODYNAMIC PENETRATION

CAMPAGNOLO® DIRECT MOUNT BRAKE

CAMPAGNOLO® BRAKE SHOE STANDARD - FAST ASSEMBLY - FAST ADJUSTMENTS - MAXIMUM COMPATIBILITY - NEW FRONT LEVER DESIGN FOR MAXIMUM AERODYNAMIC PENETRATION - RIGID REAR STRUCTURAL BRACE FOR POWERFUL, SAFE BRAKING - * Weight of one brake

SUPER RECORD™ EPS™ ERGOPOWER™ CONTROLS 280 q

CARBON FIBRE BRAKE LEVER WITH UNIDIRECTIONAL FINISH

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

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

MODE BUTTON: the "Mode" buttons allow the user to check battery charge, make fine adjustments to the rear or front derailleur - even in the middle of a race (with the "ride setting" procedure), and set the zero position of the rear and front derailleur ("zero setting" procedure).

E-ERGONOMY™: the new lower position of the lever 3 ensures easier access from all riding positions allowing the athlete to shift easily from the hoods or the drops.

MULTI-DOME TECH™: the 5-dome technology perfected by Campy Tech Lab™ together with Campagnolo® athletes has made it possible to strike the perfect balance between operating force and tactile shift feedback. It also eliminates the possibility of unintentionally shifting the rear or front derailleur.

GROUPSETS 75

brake
74 GROUPSETS

220 g



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

SUPER RECORD™ FRONT DERAILLEUR

SPECIAL INNER CAGE DESIGN - OUTER SEMI-CAGE IN MONOCOQUE

CARBON - CSD (CHAIN SECURITY DEVICE) - DERAILLEUR CLAMP - DUAL

AND BETTER TIRE CLEARANCE- SPLIT CONNECTING ROD FOR SMOOTH

POSITION CABLE CLOSURE ALLOWS FOR VERSATILE CABLE POSITION

12×2

DERAILING

79 g

SUPER RECORD™ CRANKSET

AREAS OF HIGHEST TORQUE APPLICATION

(10

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

SUPER RECORD™ REAR DERAILLEUR

UPPER PULLEY WHEELS WITH LONGER TEETH - LOWER PULLEY WHEELS WITH ROUNDED TEETH - 3D EMBRACE TECHNOLOGY™ - CARBON FIBER CAGE CONSTRUCTION - PARALLELOGRAM WITH TECHNOPOLYMER EXTERNAL CONNECTING ROD WITH UD FINISH (UNIDIRECTIONAL) - TITANIUM REAR DERAILLEUR FIXING SCREW - 12-TOOTH PULLEY WHEELS - JOINT FOR MOUNTING ON STANDARD OR DIRECT MOUNT DROP-OUTS - COMPATIBLE WITH SPROCKET SETS 11-29, 11-32, 11-34

SUPER RECORD™ CHAIN

AIN

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.

designed with 3D Embrace technology that enables the chain to maintain the highest level of traction, even on the smallest sprockets. The Disc Brake technology developed by Campagnolo ensures that the Super Record groupset has the greatest braking force and modulability possible.

CAMPAGNOLO® CALIPER

118 n

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 - 22mm 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® ROTOR 03

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

12×2

SUPER RECORD™ DB ERGOPOWER™ CONTROLS

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™ - ONE LEVER ONE ACTION - VARICUSHION™ BRAKE LEVER HOODS WITH VARIABLE DENSITY AND
SURFACE FINISHES - ULTRA-SHIFT™ FUNCTION ALLOWS FOR MULTIPLE
SHIFTING AND GREATER CONTROL FOR RACING - DERAILLEUR CABLE
ADJUSTING BARREL

SUPER RECORD™ CASSETTE

266

GROUPSETS 77

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)



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

SUPER RECORD™ FRONT DERAILLEUR

12×2

SPECIAL INNER CAGE DESIGN - OUTER SEMI-CAGE IN MONOCOQUE CARBON - 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™ CRANKSET

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

SUPER RECORD™ REAR DERAILLEUR

UPPER PULLEY WHEELS WITH LONGER TEETH - LOWER PULLEY WHEELS WITH ROUNDED TEETH - 3D EMBRACE TECHNOLOGY™ - CARBON FIBER CAGE CONSTRUCTION - PARALLELOGRAM WITH TECHNOPOLYMER EXTERNAL CONNECTING ROD WITH UD FINISH (UNIDIRECTIONAL) - TITANIUM REAR DERAILLEUR FIXING SCREW - 12-TOOTH PULLEY WHEELS - JOINT FOR MOUNTING ON STANDARD OR DIRECT MOUNT DROP-OUTS - COMPATIBLE WITH SPROCKET SETS 11-29, 11-32, 11-34

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.

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.

168 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)

SUPER RECORD™ BRAKES

MOVEMENT OF LEVERS ON BEARING - SPECIAL COMPOUND - EXCLUSIVE BRAKE PAD COUPLING/UNCOUPLING SYSTEM - DUAL PIVOT BRAKES - NEW FRONT LEVER DESIGN FOR MAXIMUM AERODYNAMIC PENETRATION

CAMPAGNOLO® DIRECT MOUNT BRAKE

CAMPAGNOLO® BRAKE SHOE STANDARD - FAST ASSEMBLY - FAST ADJUSTMENTS - MAXIMUM COMPATIBILITY - NEW FRONT LEVER DESIGN FOR MAXIMUM AERODYNAMIC PENETRATION - RIGID REAR STRUCTURAL BRACE FOR POWERFUL, SAFE BRAKING - * Weight of one brake

SUPER RECORD™ ERGOPOWER™ CONTROLS

12x2

CARBON FIBRE BRAKE LEVER WITH UNIDIRECTIONAL FINISH - ULTRA-SHIFT™ ERGONOMICS: safe grip on handlebars in all positions and faster, more precise command on levers.

VARI-CUSHION™ BRAKE LEVER HOODS WITH VARIABLE DENSITY AND SURFACE FINISHES, natural silicone material with differentiated grees to

SURFACE FINISHES: natural silicone material with differentiated areas to follow the grip of the 1st and 2nd finger. The special design drains off water keeping the support cover dry and increasing grip. Internal weave to create a variable thickness that quarantees maximum comfort.

ULTRA-SHIFT™ FUNCTION ALLOWS FOR MULTIPLE SHIFTING AND GREATER CONTROL FOR RACING: Campagnolo® offers the only

mechanical groupset available with the capabilty of shifting multiple gears (up to 5 sprockets). Multishifiting allows the rider to react immediately to rapid changes in the course or necessary gearing.

DÉRAILLEUR CABLE ADJUSTING BARREL: enables the tension of the derailleur cable to be adjusted perfectly, slashing adjustment time.

DOUBLE CURVATURE BRAKE LEVER: allows you to engage and modulate the brake safely from any hand position.

CUSTOM ERGONOMICS THANKS TO ADJUSTABLE BRAKE LEVER POSITION



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,

TEXE RECORD™ FRONT DERAILLEUR

DERAILING

11-29, 11-32, 11-34

81 g

RECORD™ CRANKSET

12×2

708 a

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

216 g

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

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

SUPER RECORD™ CHAIN

220 g

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.

matched with Campagnolo's typical quality and reliability. The design of the new RecordTM 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.

CAMPAGNOLO® CALIPER

118 g

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 - 22mm 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® 03 ROTOR

99 (

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

RECORD™ DB ERGOPOWER™ CONTROLS

12×2

/.63 a

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™ - ONE LEVER ONE ACTION - VARICUSHION™ BRAKE LEVER HOODS WITH VARIABLE DENSITY AND
SURFACE FINISHES - ULTRA-SHIFT™ FUNCTION ALLOWS FOR MULTIPLE
SHIFTING AND GREATER CONTROL FOR RACING - DERAILLEUR CABLE
ADJUSTING BARREL

SUPER RECORD™ CASSETTE

266 g

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.

, 12×2 **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

UPPER PULLEY WHEELS WITH LONGER TEETH - LOWER PULLEY

WHEELS WITH ROUNDED TEETH - 3D EMBRACE TECHNOLOGY™ - LOWER

BODY IN MONOLITHIC TECHNOPOLYMER WITH CARBON ELEMENTS -

ALUMINUM FRONT PLATE - PARALLELOGRAM WITH TECHNOPOLYMER

EXTERNAL CONNECTING ROD - JOINT FOR MOUNTING ON STANDARD

OR DIRECT MOUNT DROP-OUTS - COMPATIBLE WITH SPROCKET SETS

BETTER TIRE CLEARANCE- SPLIT CONNECTING ROD FOR SMOOTH

RECORD™ CRANKSET

12×2

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

DERAILING

11-29, 11-32, 11-34

SUPER RECORD™ CHAIN

220 g

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.

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.

12×2 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™ BRAKES

SPECIAL COMPOUND - EXCLUSIVE BRAKE PAD COUPLING/UNCOUPLING SYSTEM - DUAL PIVOT BRAKES - NEW FRONT LEVER DESIGN FOR MAXIMUM AERODYNAMIC PENETRATION

CAMPAGNOLO® DIRECT MOUNT BRAKE

168 g*

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

RECORD™ ERGOPOWER™ CONTROLS

12×2

CARBON FIBRE BRAKE LEVER WITH UNIDIRECTIONAL FINISH - ULTRA-SHIFT™ ERGONOMICS: safe grip on handlebars in all positions and faster, more precise command on levers

VARI-CUSHION™ BRAKE LEVER HOODS WITH VARIABLE DENSITY AND **SURFACE FINISHES:** natural silicone material with differentiated areas to

follow the grip of the 1st and 2nd finger. The special design drains off water keeping the support cover dry and increasing grip. Internal weave to create a variable thickness that guarantees maximum comfort.

ULTRA-SHIFT™ FUNCTION ALLOWS FOR MULTIPLE SHIFTING AND **GREATER CONTROL FOR RACING:** Campagnolo® offers the only

mechanical groupset available with the capabilty of shifting multiple gears (up to 5 sprockets). Multishifiting allows the rider to react immediately to rapid changes in the course or necessary gearing.

DERAILLEUR CABLE ADJUSTING BARREL: enables the tension of the derailleur cable to be adjusted perfectly, slashing adjustment time. DOUBLE CURVATURE BRAKE LEVER: allows you to engage and modulate CUSTOM ERGONOMICS THANKS TO ADJUSTABLE BRAKE LEVER

82 GROUPSETS GROUPSETS 83





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.

12×2

DERAILING

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

CHORUS™ CRANKSET

728

243 g

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

12×2

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® transmissions: longer life for chainrings and sprockets, maximum efficiency in power transmission.

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.

CAMPAGNOLO® CALIPER

118

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 - 22mm 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® ROTOR

99 (

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

12×2

CHORUS™ DB ERGOPOWER™ CONTROLS

488 a

ALUMINIUM BRAKE LEVER - NEW ERGONOMICS OF THE ERGOPOWER™ BODY - NEW BRAKE LEVER ERGONOMICS - BRAKE LEVER WITH DOUBLE CURVE - REACH ADJUSTMENT - HYDRAULIC MASTER CYLINDER - BLEEDING PORT ON THE TOP OF THE ERGOPOWER™ - ONE LEVER ONE ACTION - VARI-CUSHION™ BRAKE LEVER HOODS WITH VARIABLE DENSITY AND SURFACE FINISHES - ULTRA-SHIFT™ FUNCTION ALLOWS FOR MULTIPLE SHIFTING AND GREATER CONTROL FOR RACING - DERAILLEUR CABLE ADJUSTING BARREL

CHORUS™ CASSETTE

310 g

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



 $\mathsf{Chorus}^{\scriptscriptstyle\mathsf{TM}}$ 12-speed groupset: the best choice for those wanting typical Campagnolo quality, cutting-edge technologies and reliability, also for endurance cycling.

CHORUS™ FRONT DERAILLEUR

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

CHORUS™ CRANKSET

728 n

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

12×2

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

241 g

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.

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

CHORUS™ ERGOPOWER™ CONTROLS

12×2

ALUMINIUM BRAKE LEVER

ULTRA-SHIFT™ ERGONOMICS: safe grip on handlebars in all positions and faster, more precise command on levers.

VARI CUSHION™ BRAKE LEVER HOODS WITH VARIABLE DENSITY AND SURFACE FINISHES: natural silicone material with differentiated areas to follow the grip of the 1st and 2nd finger. The grooved areas drain away water, keeping the brake lever hoods dry and improving grip. Internal weave to create a variable thickness that guarantees maximum comfort. ULTRA-SHIFT™ FUNCTION ALLOWS FOR MULTIPLE SHIFTING AND

GREATER CONTROL FOR RACING: Campagnolo® offers the only mechanical groupset available with the capabilty of shifting multiple gears (up to 5 sprockets). Multishifiting allows the rider to react immediately to rapid changes in the course or necessary gearing.

DÉRAILLEUR CABLE ADJUSTING BARREL: enables the tension of the derailleur cable to be adjusted perfectly, slashing adjustment time. DERAILLEUR CABLE ADJUSTING BARREL: enables the tension of the derailleur cable to be adjusted perfectly, slashing adjustment time. CUSTOM ERGONOMICS THANKS TO ADJUSTABLE BRAKE LEVER POSITION

CHORUS™ CASSETTE

12×2

310

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

CHORUS™ BRAKES

318 q*

SKELETON BRAKE ARMS: no-bend arms, modularity, reduced weight - SPECIAL COMPOUND - EXCLUSIVE BRAKE PAD COUPLING/UNCOUPLING SYSTEM: fast and secure brake pad replacement - * Dual pivot front/rear

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 **Centaur™** Rim Brake 11 speed groupset represents Campagnolo® continuous innovation and is a prime example of how top tier technology trickles down to permeate the entire range.

CENTAUR™ REAR DERAILLEUR

230 g

CENTAUR™ FRONT DERAILLEUR

103 a

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

SUPER RECORD™ INFLUENCED DESIGN ONE-PIECE STEEL CAGE SHAPED OUTER SEMI-CAG: improve the downshifting speed and chain control during upshifting
NEW ROD DESIGN

CENTAUR™ CASSETTE

UPPER BODY

29 I g

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

THREE CASSETTE SPECS AVAILABLE: 11-32, 12-32, 11-29
11-32 CASSETTE WITH THE SPROCKET COMBINATION: 11-12-13-14-15-17-19-22-25-28-32

CAMPAGNOLO 11™ CHAIN

256 (

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

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

CENTAUR™ ERGOPOWER™ CONTROLS

373 n

ALUMINIUM BRAKE LEVER - REDESIGNED RIGHT POWER-SHIFT™ FMECHANISM - MULTIPLE UPSHIFTING (UP TO 3 GEARS) - ERGONOMIC DOWNSHIFT LEVER POSITION - NEW LIP INTRODUCED ON THE INTRODUCED ON THE PROPOWER™ BODY - GEOMETRY SPECIFICALLY DESIGNED TO PRIMIZE 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 ALUMINUM 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 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

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

WHEELS

WHEEL TECHNOLOGIES		92 - 115
AERO/ PERFORMANCE CARBON WHEELS		116
BORA™ ULTRA WTO 60	Disc Brake	119
BORA™ ULTRA WTO 45	Disc Brake	120
BORA™ ULTRA WTO 33	Disc Brake	121
BORA™ ULTRA TT	Rim Brake	122
BORA™ WTO 77	Rim Brake	123
BORA™ WTO 60	Disc Brake - Rim Brake	124 - 125
BORA™ WTO 45	Disc Brake - Rim Brake	126 - 127
BORA™ WTO 33	Disc Brake - Rim Brake	128 - 129
BORA™ ULTRA™ 50	Rim Brake	130
BORA™ ULTRA™ 35	Rim Brake	131
ENDURANCE CARBON WHEELS		132
SHAMAL™ CARBON	Disc Brake	134
ALUMINIUM WHEELS		136
SHAMAL™ ULTRA™	Rim Brake	137
ZONDA™	Disc Brake - Rim Brake	138 - 139
SCIROCCO™	Disc Brake - Rim Brake	140 - 141
CALIMA™	Rim Brake	142











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™ Ultra WTO and Bora™ WTO.



WT0

Wind **T**unnel **O**ptimized



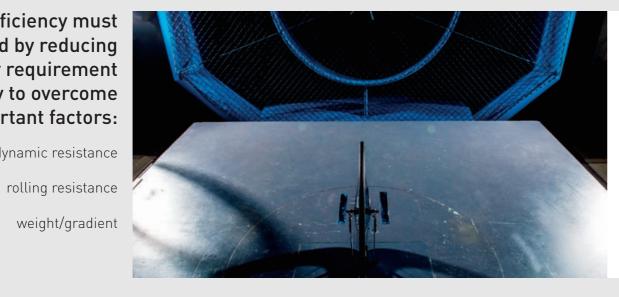
Such a task saw the engineering team spending as many hours in the wind tunnel as in the office

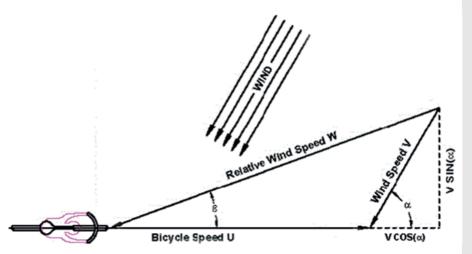
hence the moniker of WTO

Overall efficiency must be improved by reducing the energy requirement necessary to overcome three important factors:

aerodynamic resistance

weight/gradient





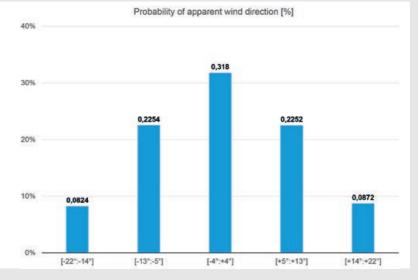
Wind effect is barely ever straightforward:

apparent wind must be accounted for

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

WHEELS TECHNOLOGIES 95 Race courses aren't typically straight



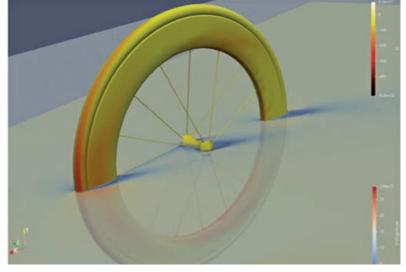


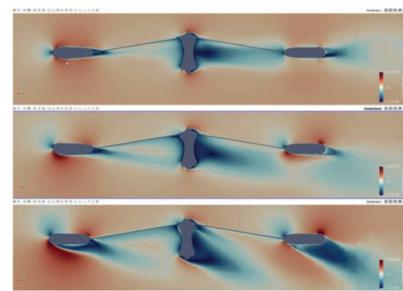
WTO Wind Tunnel Optimized for REAL WORLD CONDITIONS

Numerous real world tests performed on two different continents

Riders don't maintain a perfect position







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°

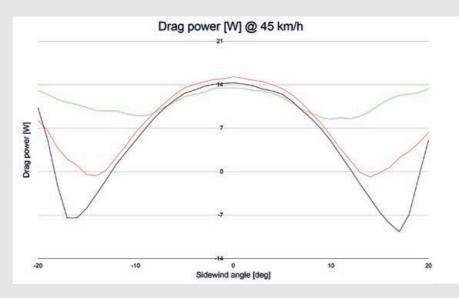
Wind angle: 20°

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

96 WHEELS 97

Bora™ WTO 77 45 k/h

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





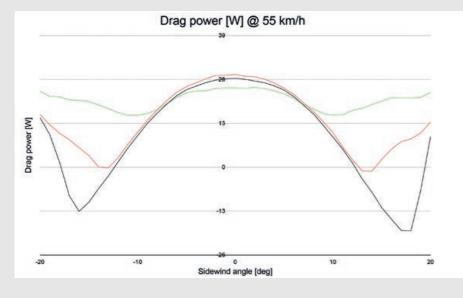
Aerodynamic Hubs:

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

Bora™ **WTO 77 55 k/h**

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



Aerodynamic Spokes:

3D Aero profile

not merely flat but diamond shaped

efficient design that accounts for varied wind conditions

Bora™ Ultra WTO and Bora™ WTO: rim shape:

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





Reduced number of spokes:

16 spokes for Bora WTO 77 mm front wheel

18 spokes for 60, 45 and 33 mm Rim Brake front wheel

21 spokes for 45 mm Disc Brake front

21/G3 spokes for 60, 45 and 33 mm Rim Brake rear wheel

24/G3 spokes for 60 and 33 mm Disc Brake

98 WHEELS 99

Bora™ Ultra WTO and Bora™ WTO with oversized drive side flange and G3™ spoke pattern

The oversized flange allows for symmetric spoke angles which increase torsional rigidity and result in a more reactive wheel.

The G3 spoke pattern incorporates twice as many spokes on the side of highest torque application. Doing so reduces the force applied to each single spoke and increases the rigidity of the overall wheel.





Bora[™] WTO 60/45/33 USB[™] Ceramic Bearings:

Long lasting

Superior Performance

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 77 and Bora[™] Ultra WTO 60/45/33 CULT[™] Ceramic Bearings:

CULT™ bearings have a friction coefficient 40% lower than standard sealed bearings, and in tests, can spin for 5 ½ times longer.

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

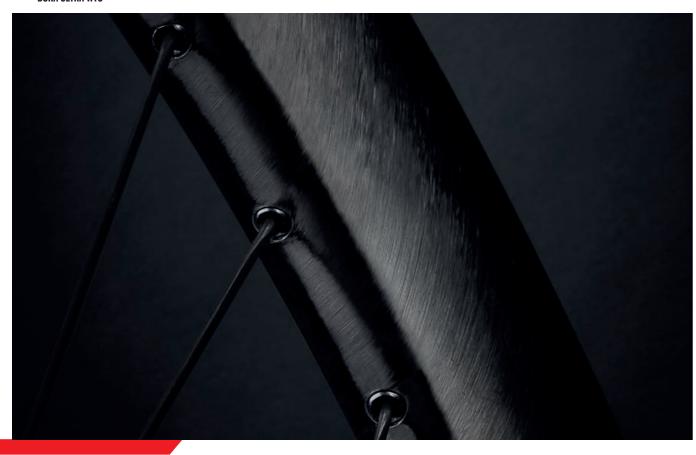


Optimized Construction for Optimum Performance

The lightweight yet extremely reliable performance of the Bora Ultra WTO and 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.

TECHNOLOGIES 101

BORA ULTRA WTO



AERO MO-MAG™

The Bora™ Ultra WTO (WTO denoting 'Wind Tunnel Optimised') is designed to offer unparalleled aerodynamic performance in real-world conditions. To achieve this, Campagnolo® has introduced Aero Mo-Mag™ internal nipples. Hidden inside the rim, this latest iteration of Campagnolo's Mo-Mag™ technology allows for cleaner and more efficient airflow when coupled with Campagnolo's aero elliptical spokes.

Aerodynamics isn't the only benefit of the patented technology, as the Mo-Mag™ system allows Campagnolo® to mould the nipple and valve holes into the rims, negating entirely the need to drill holes in the carbon fiber. This increases internal strength, and reduces localised stress, which in turn increases the wheelset's fatigue life. Internalising the nipples in such a way also guarantees perfect alignment, resulting in an even more accurate wheel build.

The benefits don't stop there however, as no drilled holes in the 2-Way Fit™ rim bed means **no** need for rim tape, so fitting tubeless, tubeless-ready and clincher tires proves a seamless affair.

The Aero Mo-Mag™ system even averts the traditional pitfalls of internal nipples by guaranteeing ease-of-adjustment with a supplied tool, meaning spoke tension can be increased or decreased, even with the tire still in place.

Equally important is Campagnolo's construction with glass-fiber reinforced polymer plates between the rim and the nipple to improve the leaning and the fatigue life of the system reducing loads and corrosion probability.





H.U.L.C. CONSTRUCTION

The Bora™ Ultra WTO's rims have been completely redesigned across the range with both weight-loss and continued WTO /Wind Tunnel Optimized) performance in mind.

The new rims, aerodynamically optimised for 25mm tires, are constructed from Campagnolo's Hand Made Ultra-Light Carbon. H.U.L.C is the result of extensive development over decades of in-house carbon fiber moulding, enabling Campagnolo's engineers to optimise the usage of both fiber and bonding resin for the perfect blend of strength, stiffness and light weight.

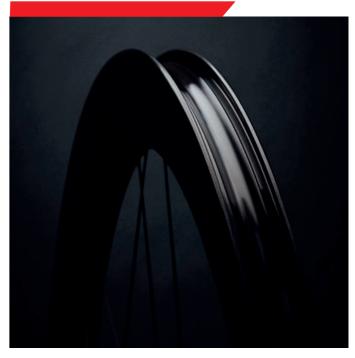
This means the Bora™ Ultra WTO tips the scales at just 1425g in the 45mm rim format.

C-LUX FINISH

Fast wheels must look the part too however, so the rim (and front hub) also sports a stunning mirror-like Campagnolo® Luxury (C-LUX) finish.

This C-LUX finish is so pristinely smooth that it doesn't require lacquer, saving weight.

When applied to the rim bed, as Campagnolo® has done for the first time with its new Bora™ Ultra WTO, the scientific precision of C-LUX also helps to ensure the safest possible seating of tubeless tires and further reduces the risk of abrasions to the bead.



TREENOLOGIES 103





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



BORA WTO DB, BORA ONE DB, ZONDA DB, SHAMAL ULTRA DB

SCIROCCO DB

code AC21-N3WRFCC for cone and cod. AC21-N3WRFCS for sealed

if needed, two conversion kits are

Retrofit Kit for current

wheels:

available

bearings,

to adapt your faithful pedaling companions to the new N3W™ standard







TECHNOLOGIES 105 104 WHEELS



DISC BRAKE WHEELS

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 $G3^{\text{TM}}$ spoke design. The front wheel utilises the double spokes on the disc side.

With the incorporation of Mega- $G3^{TM}$ spoke pattern, the hub manages the asymmetric forces generated by the disc brakes.



Modified version of the famous G3™ spoke pattern on the rear wheel



One piece solid construction to compensate for asymmetric forces from disc brakes



Modified version of the famous G3™ spoke pattern on the front wheel

106 WHEELS TECHNOLOGIES 107



2-WAY FIT™ READY









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 FitTM Ready. Only the Tubeless Easy (TL-Easy) tyres by Schwalbe Pro One and G-One have been tested and approved for the Tubeless Easy conversion with the Campagnolo 2-Way FitTM 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

absence of grease drastically reduce

friction and increase the smoothness

technologies of materials processing.

of the cup/cone structure and

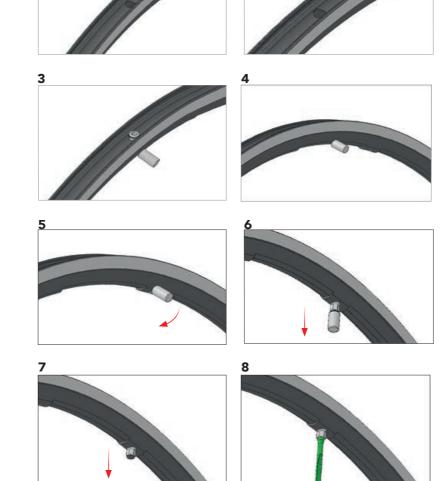
of the wheel by as much as 5,5

bearings. An outstanding result

achieved by using cutting-edge

times when compared to standard





MoMag™

What is MoMag?

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

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

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

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.



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.

TECHNOLOGIES 111

MEGA-G3™

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

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

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

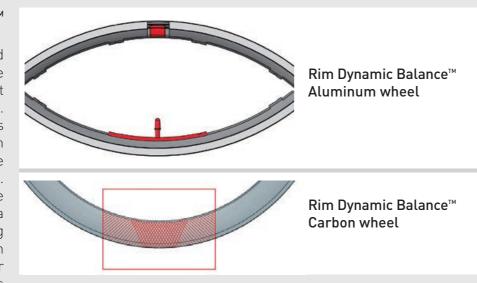
In 2014 G3™ becomes Mega-G3™ thanks to the oversize flange and an increase in lateral and torsional stiffness results.



Rim Dynamic Balance™

The concept is simple and elegant: balance the weight of the gasket, with an item of similar weight placed on the exact opposite side. For top aluminum models, this is obtained by a special operation on the section of the rim opposite the rim joint.

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



CAMPAGNOLO® QUICK RELEASE

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

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

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

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

CARBON WHEELS	Server aux	Christian		
BORA™ ULTRA™ TT				•
BORA™ WTO 77				•
BORA™ WTO 60				•
BORA™ WTO 45				•
BORA™ WTO 33				•
BORA™ ULTRA™ 50				•
BORA™ ULTRA™ 35				•
ALUMINIUM WHEELS				
SHAMAL™ ULTRA™			•	
ZONDA™		•		
SCIROCCO™		•		
CALIMA™	•			

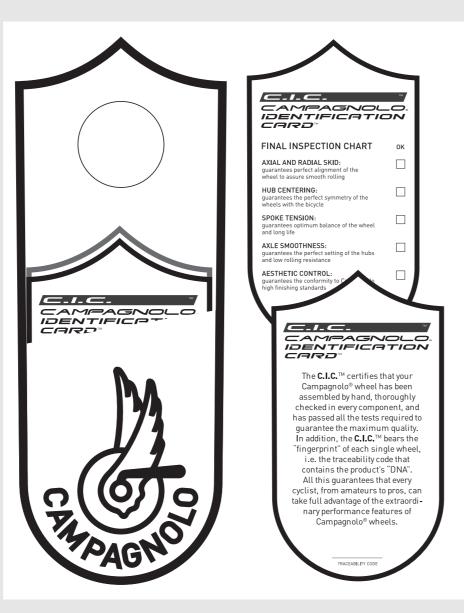
TECHNOLOGIES 113

CERTILOGO*

Campagnolo® Identification Card

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 quaranteed.

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.



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

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

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

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





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

Traceability

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.



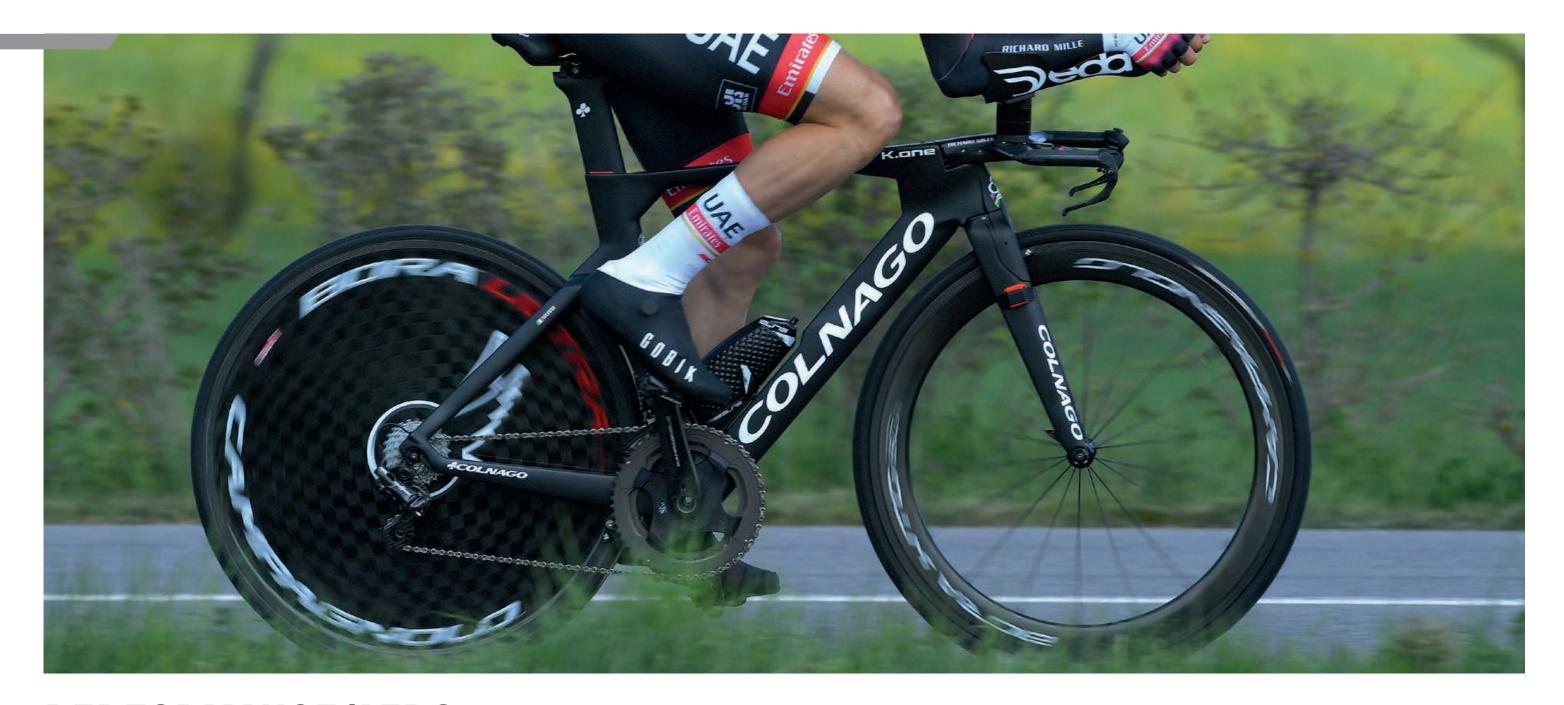




The Certilogo® Code (in both numerical and QR code) allows anyone, before or after purchase to check that the product is authentic. To authenticate Campagnolo® wheels, just visit www.certilogo.com, insert the CLG Code or download the Certilogo APP.

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.

114 WHEELS TECHNOLOGIES 115



PERFORMANCE/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 (Wind Tunnel Optimized) 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.

BORA™ ULTRA WTO 60	Disc Brake	119
BORA™ ULTRA WTO 45	Disc Brake	120
BORA™ ULTRA WTO 33	Disc Brake	121
BORA™ ULTRA TT	Rim Brake	122
BORA™ WTO 77	Rim Brake	123
BORA™ WTO 60	Disc Brake	124
BORA™ WTO 60	Rim Brake	125
BORA™ WTO 45	Disc Brake	126
BORA™ WTO 45	Rim Brake	127
BORA™ WTO 33	Disc Brake	128
BORA™ WTO 33	Rim Brake	129
BORA™ ULTRA 50	Disc Brake	130
BORA™ ULTRA 35	Disc Brake	131

116 WHEELS 117

BORA LLTRA WT

#THEBEAUTYOFSPEED



INTRODUCING THE BORA™ ULTRA WTO Stiffer, lighter and more aerodynamic, the new Bora™ Ultra WTO series showcases the beauty of speed.

Since 1994, Campagnolo's Bora™ series has set the standard for high-performance racing wheels, with each evolution bringing considerable real-world performance increases.

Campagnolo® now unveils its latest iteration in the range, the new Bora™ Ultra WTO series, a range-topping wheelset available disc brake-only, in 33, 45 and 60mm rim-depth formats.

The new model takes an evolutionary leap ahead of its predecessors, with significant improvements to aerodynamics, stiffness and weight, unlocked by a forward-thinking design process at the brand's Vicenza HQ.

The Bora™ Ultra WTO 60 exists to turn every last watt in to pure speed. Its impressively light weight and efficiency ensure that you not only reach the finish in contention, but also have the ultimate tool to emerge victorious.

The advanced, wind tunnel optimised profile of its 60mm deep carbon rim, promises sharp, confident handling in all conditions. All-new aero spokes with hidden nipples reduce aerodynamic drag, while CULT™ ceramic bearings minimise friction. Campagnolo's beautifully moulded carbon front hub body is securely bonded to a light aluminium hub flange, and integrated radial spoke seats ensure perfect alignment. The rim bed is undrilled, making tubeless installation simple, and seriously increasing the rim's integrity and torsional rigidity. It's a sprinter's, rouleur's and time triallist's dream.















RIM. 26,1 mm WIDE, COMPATIBLE WITH BOTH **TUBELESS AND CLINCHER TIRES:**

Wind Tunnel Optimized to be extremely efficient. Campagnolo® construction to ensure reactivity and

C-LUX FINISH:

C-LUX creates the same high gloss surface finish on all external faces of the rim, including the rim bed and tyre hooks. By guaranteeing a more precise wheel diameter, and ensuring the safety elements are perfectly formed, we are able to promise easier assembly and, by improving their match with the rim interface, tubeless tyres will seal better, conform more easily when rolling, and should last longer.

H.U.L.C. CONSTRUCTION:

the Bora™ Ultra WTO rims are the lightest that Campagnolo® have ever made in each depth, thanks to the new Handmade Ultra-Light Carbon (H.U.L.C.) process. H.U.L.C. optimises the moulding profiles, and the quantity of carbon fibre and proprietary resin used.

EXTREMELY AERODNAMIC FULL CARBON FIBER WIND TUNNEL OPTIMIZED 3D SPOKE DESIGN:

aerodynamic shape from all angles

G3[™] SPOKE PATTERN:

Campagnolo's asymmetric G3™ system, optimised for disc brakes, improves power transfer and reduces stress during sprinting as well as under heavy braking.

AERO MO-MAG:

the innovative Mo-Mag system allowed external spoke nipples to be positioned from inside the rim using a magnet, with no need to create additional holes in the rim bed for them. Aero Mo-Mag takes it a step further, with a completely internal, hidden system, which maximises aerodynamics, and allows the rim to be built lighter.



BEARINGS WITH CULT™ TECHNOLOGY:

the combination between the highest quality ceramic bearings and housing in special steel. CULT[™] bearings have a friction coefficient 40% lower than standard sealed bearings, and in tests, can spin for 5 ½ times longer.

ADJUSTING LOCKING WITH MICRO-SETTING:

for precision hub adjustment

ALUMINIUM REAR HUB SHELL:

permits an improved torque transfer across hub during the braking phase.

CARBON FIBRE FRONT HUB:

Campagnolo's beautifully moulded carbon fibre front hub body is hourglass shaped to improve aerodynamics, and is securely bonded to a light aluminium hub flange.

AVAILABLE F/W BODIES:

Campagnolo N3W™ - HG - XDR

Campagnolo's Bora™ Ultra WTO 45 has the perfect balance of speed, agility and stability, making it the best choice for all-round riders. The rim's versatile design takes account of real-world riding conditions, not just those created in a wind tunnel, and the result is the most efficient drag-reducing rim shape available.

Now even lighter, thanks in part to its Hand Made Ultra-Light Carbon (H.U.L.C.) construction, the Bora™ Ultra WTO 45 has slimmer Aero Elliptical spokes and hidden nipples to help slice through the air. Campagnolo's beautifully moulded carbon front hub body is securely bonded to a light aluminium hub flange, and integrated radial spoke seats ensure perfect alignment. A uniquely stunning C-LUX finish and new, subtle Bora™ Ultra WTO graphics ensure the new wheels have the show to match their go.

REAR WHEEL FRONT WHEEL



2-Way Fit™: 1425 q











RIM, 26,1 mm WIDE, COMPATIBLE WITH BOTH TUBELESS AND CLINCHER TIRES:

Wind Tunnel Optimized to be extremely efficient. Campagnolo® construction to ensure reactivity and reliability.

C-LUX FINISH:

C-LUX creates the same high gloss surface finish on all external faces of the rim, including the rim bed and tyre hooks. By guaranteeing a more precise wheel diameter, and ensuring the safety elements are perfectly formed, we are able to promise easier assembly and, by improving their match with the rim interface, tubeless tyres will seal better, conform more easily when rolling, and should last longer.

H.U.L.C. CONSTRUCTION:

the Bora™ Ultra WTO rims are the lightest that Campagnolo® have ever made in each depth, thanks to the new Handmade Ultra-Light Carbon (H.U.L.C.) process. H.U.L.C. optimises the moulding profiles, and the quantity of carbon fibre and proprietary resin used.

EXTREMELY AERODNAMIC FULL CARBON FIBER WIND TUNNEL OPTIMIZED 3D SPOKE DESIGN:

aerodynamic shape from all angles.

G3™ SPOKE PATTERN:

Campagnolo's asymmetric G3™ system, optimised for disc brakes, improves power transfer and reduces stress during sprinting as well as under heavy braking.

AERO MO-MAG:

the innovative Mo-Mag system allowed external spoke nipples to be positioned from inside the rim using a magnet, with no need to create additional holes in the rim bed for them. Aero Mo-Mag takes it a step further, with a completely internal, hidden system, which maximises aerodynamics, and allows the rim to be built lighter.



BEARINGS WITH CULT™ TECHNOLOGY:

the combination between the highest quality ceramic bearings and housing in special steel. CULT[™] bearings have a friction coefficient 40% lower than standard sealed bearings, and in tests, can spin for 5 1/2 times longer.

ADJUSTING LOCKING WITH MICRO-SETTING: for precision hub adjustment

ALUMINIUM REAR HUB SHELL:

permits an improved torque transfer across hub during the braking phase.

CARBON FIBRE FRONT HUB:

Campagnolo's beautifully moulded carbon fibre front hub body is hourglass shaped to improve aerodynamics, and is securely bonded to a light aluminium hub flange.

AVAILABLE F/W BODIES:

Campagnolo N3W™ - HG - XDR

Climbers will love the Bora™ Ultra WTO 33's lower weight, helping them to reach the heights even faster, change pace instantly, and descend with great speed and confidence. Built using Campagnolo's Hand Made Ultra-Light Carbon (H.U.L.C.), the rims have Campagnolo's mirror-like Luxury (C-LUX) finish, and undrilled 2-Way Fit™ rim beds, for perfect tubeless compatibility without rim tape. Campagnolo's beautifully moulded carbon fibre front hub body is hourglass shaped to improve aerodynamics, and is securely bonded to a light aluminium hub flange. Integrated radial spoke seats ensure perfect alignment, hidden Aero Mo-Mag™ nipples and slimmer Aero Elliptical spokes in Campagnolo's G3™ spoke pattern further enhance performance, and its CULT™ ceramic bearings promise almost frictionless rotation.













RIM. 24,7 mm WIDE, COMPATIBLE WITH BOTH **TUBELESS AND CLINCHER TIRES:**

Wind Tunnel Optimized to be extremely efficient. Campagnolo® construction to ensure reactivity and reliability.

C-LUX FINISH:

C-LUX creates the same high gloss surface finish on all external faces of the rim, including the rim bed and tyre hooks. By guaranteeing a more precise wheel diameter, and ensuring the safety elements are perfectly formed, we are able to promise easier assembly and, by improving their match with the rim interface, tubeless tyres will seal better, conform more easily when rolling, and should last longer.

H.U.L.C. CONSTRUCTION:

the Bora™ Ultra WTO rims are the lightest that Campagnolo® have ever made in each depth, thanks to the new Handmade Ultra-Light Carbon (H.U.L.C.) process. H.U.L.C. optimises the moulding profiles, and the quantity of carbon fibre and proprietary resin used.

EXTREMELY AERODNAMIC FULL CARBON FIBER WIND TUNNEL OPTIMIZED 3D SPOKE DESIGN: aerodynamic shape from all angles

G3[™] SPOKE PATTERN:

Campagnolo's asymmetric G3™ system, optimised for disc brakes, improves power transfer and reduces stress during sprinting as well as under heavy braking.

AERO MO-MAG:

the innovative Mo-Mag system allowed external spoke nipples to be positioned from inside the rim using a magnet, with no need to create additional holes in the rim bed for them. Aero Mo-Mag takes it a step further, with a completely internal, hidden system, which maximises aerodynamics, and allows the rim to be built lighter.



BEARINGS WITH CULT™ TECHNOLOGY:

the combination between the highest quality ceramic bearings and housing in special steel. CULT[™] bearings have a friction coefficient 40% lower than standard sealed bearings, and in tests, can spin for 5 ½ times longer.

ADJUSTING LOCKING WITH MICRO-SETTING: for precision hub adjustment

ALUMINIUM REAR HUB SHELL:

permits an improved torque transfer across hub during the braking phase.

CARBON FIBRE FRONT HUB:

Campagnolo's beautifully moulded carbon fibre front hub body is hourglass shaped to improve aerodynamics, and is securely bonded to a light aluminium hub flange.

AVAILABLE F/W BODIES:

Campagnolo N3W™ - HG - XDR

120 WHFFIS

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

LEFT SIDE RIGHT SIDE





RIM BRAKE



Tubular: 864 g









WHEEL DEVELOPED FOR THE TIME TRIAL FRAMF.

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

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® 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[™] bearings have a friction coefficient 40% lower than standard sealed bearings, and in tests, can spin for 5 ½ times longer.

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:

compatibile with Campagnolo® 10, 11 and 12 speed cassettes as well as Shimano Inc. 9, 10, and 11 speed cassettes.

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.



2-Way Fit™: 755 g







EXTREMELY AERODNAMIC FULL CARBON FIBER WIND TUNNEL OPTIMIZED 3D SPOKE DESIGN: RIM, 26.5mm WIDE, COMPATIBLE WITH BOTH **TUBELESS AND CLINCHER TIRES:**

Wind Tunnel Optimized to be extremely efficient. Campagnolo construction to ensure reactivity and reliability.

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 to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulous 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

aerodynamic shape from all angles.

SELF-LOCKING NIPPLES:

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



BEARINGS WITH CULT™ TECHNOLOGY:

the combination between the highest quality ceramic bearings and housing in special steel. CULT[™] bearings have a friction coefficient 40% lower than standard sealed bearings, and in tests, can spin for 5 ½ times longer.

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 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.

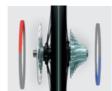
Campagnolo introduces its first aerodynamic disc brake wheel with a 60 mm profile, designed to appeal to cyclists with a love for speed. Its high profile can transfer all the aerodynamic advantages acquired from our research and development study to the road.

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.













RIM. 26 mm WIDE, COMPATIBLE WITH BOTH **TUBELESS AND CLINCHER TIRES:**

Wind Tunnel Optimized to be extremely efficient. Campagnolo construction to ensure reactivity and reliability.

RDB™ RIM DYNAMIC BALANCE:

when manufacturing carbon rims, the carbon fibre is aligned in such a manner that the resulting rim is perfectly balanced.

100% HIGH MODULOUS CARBON FIBER:

the unique, hand made construction allows Campagnolo staff to orient each and every fiber in accordance to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulous 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.

EXTREMELY AERODNAMIC FULL CARBON FIBER 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"

SELF-LOCKING NIPPLES:

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

USB™ ULTRA SMOOTH BEARINGS:

top quality ceramic bearings create a perfectly smooth, 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

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.













RIM, 26.5mm WIDE, COMPATIBLE WITH BOTH **TUBELESS AND CLINCHER TIRES:**

Wind Tunnel Optimized to be extremely efficient. Campagnolo construction to ensure reactivity and reliability.

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 to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulous 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

EXTREMELY AERODNAMIC FULL CARBON FIBER 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.

SELF-LOCKING NIPPLES:

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



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:

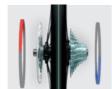
greater torsional stiffness and greater reactivity.

DISC BRAKE

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™ 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.













RIM. 26 mm WIDE, COMPATIBLE WITH BOTH **TUBELESS AND CLINCHER TIRES:**

Wind Tunnel Optimized to be extremely efficient. Campagnolo construction to ensure reactivity and reliability.

RDB™ RIM DYNAMIC BALANCE:

when manufacturing carbon rims, the carbon fibre is aligned in such a manner that the resulting rim is perfectly balanced.

100% HIGH MODULOUS CARBON FIBER:

the unique, hand made construction allows Campagnolo staff to orient each and every fiber in accordance to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulous 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.

EXTREMELY AERODNAMIC FULL CARBON FIBER 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"

SELF-LOCKING NIPPLES:

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

USB™ ULTRA SMOOTH BEARINGS:

top quality ceramic bearings create a perfectly smooth, 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

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 23mm, 25mm and 28mm to be fitted. While the key purpose of these wheels is to deliver extreme performance, safety is also quaranteed 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.













RIM, 26.5mm WIDE, COMPATIBLE WITH BOTH **TUBELESS AND CLINCHER TIRES:**

Wind Tunnel Optimized to be extremely efficient. Campagnolo construction to ensure reactivity and reliability.

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 to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulous 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

EXTREMELY AERODNAMIC FULL CARBON FIBER 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.

SELF-LOCKING NIPPLES:

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



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.

Campagnolo introduces the first aerodynamic Disc Brake wheel with a 33 mm profile. It is a turning point in the all-rounder segment: a truly multi-purpose wheel.

The wheel features aerodynamic carbon rims with a unidirectional finish, new aerodynamic aluminium hubs, and the ceramic USB cupand-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













RIM, 26 mm WIDE, COMPATIBLE WITH BOTH **TUBELESS AND CLINCHER TIRES:**

Wind Tunnel Optimized to be extremely efficient. Campagnolo construction to ensure reactivity and reliability.

RDB™ RIM DYNAMIC BALANCE:

when manufacturing carbon rims, the carbon fibre is aligned in such a manner that the resulting rim is perfectly balanced.

100% HIGH MODULOUS CARBON FIBER:

the unique, hand made construction allows Campagnolo staff to orient each and every fiber in accordance to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulous 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.

EXTREMELY AERODNAMIC FULL CARBON FIBER 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"

SELF-LOCKING NIPPLES:

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

USB™ ULTRA SMOOTH BEARINGS:

top quality ceramic bearings create a perfectly smooth, 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

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

Available versions: bright and dark label, Campagnolo FW or HG11 body













RIM, 26.5mm WIDE, COMPATIBLE WITH BOTH **TUBELESS AND CLINCHER TIRES:**

Wind Tunnel Optimized to be extremely efficient. Campagnolo construction to ensure reactivity and reliability.

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 to a specific design. Every single fiber, from the inner most layers to the unidirectional fiber used for the external application are of high modulous 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

EXTREMELY AERODNAMIC FULL CARBON FIBER 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.

SELF-LOCKING NIPPLES:

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



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.

Innovating the wheel that has become perhaps the benchmark for quality, performance and race victories at the highest level of cycling was certainly an arduous task but one that the Campy Tech Lab™ engineers met with enthusiasm. The result of their labor was the 2015 range Bora™ Ultra™ 50 which maintains the positive performance aspects of the preceding version while incorporating new solutions and technologies to build further upon its race-winning potential. The wider stance brings forth a more efficient, comfortable and sharp handling wheelset without additional weight. Add the super reactive construction, smooth rolling $CULT^{\text{TM}}$ bearings, aerodynamic profile it is no wonder why the Bora[™] has become one of the winningest wheels in history. The 2018 range sees the addition of the new AC3[™] (All Conditions Carbon Control) Technology braking surface, which brings braking performance in wet conditions closer to that found on dry conditions.



Tubular: 1215 q Clincher: 1435 q









FULL-CARBON RIM, 24.2mm WIDE, FOR TUBULARS AND CLINCHERS:

handbuilt and technologically advanced carbon fiber rim. New wider profile increases rigidity and comfort without adding weight. Wider stance improves tire/rim interface, thus improving handling and aerodynamics.

EXCLUSIVE RIM PRINTING SYSTEM:

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 performances on dry and, above all, on wet conditions.

BRAKE PADS MADE ESPECIALLY FOR CARBON WHEELS

RDB™ RIM DYNAMIC BALANCE

SPOKES WITH AERODYNAMIC PROFILE:

provides the maximum aerodynamic penetration. Reduces aerodynamic drag saving rider energy.

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'

SELF-LOCKING ALUMINIUM NIPPLES

BEARINGS WITH CULT™ TECHNOLOGY:

the combination between the highest quality ceramic bearings and housing in special steel CULT[™] bearings have a friction coefficient 40% lower than standard sealed bearings, and in tests, can spin for 5 1/2 times longer.

CARBON FIBRE HUB:

provides a high degree of lateral stiffness and reduces weight to the minimum.

CUP AND CONE BEARINGS:

easy bearing adjustment

OVERSIZED FLANGE:

greater torsional stiffness and greater reactivity.

ALUMINIUM AXLE

reduces the weight of the wheel.

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, on wet conditions.

BRAKE PADS MADE ESPECIALLY FOR CARBON

RDB™ RIM DYNAMIC BALANCE

SPOKES WITH AERODYNAMIC PROFILE IN STEEL:

ensuring the maximum aerodynamic penetration and, thanks to the material employed, lower weight and greater reactivity.

EXCLUSIVE G3™ SPOKE PATTERN:

perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. G3™ eliminates vibrations even with "heavy" cyclists.

SELF-LOCKING ALUMINIUM NIPPLES



BEARINGS WITH CULT™ TECHNOLOGY:

the combination between the highest quality ceramic bearings and housing in special steel. CULT[™] bearings have a friction coefficient 40% lower than standard sealed bearings, and in tests, can spin for 5 1/2 times longer.

CARBON FIBRE HUB:

provides a high degree of lateral stiffness and reduces weight to the minimum.

OVERSIZED FLANGE:

greater torsional stiffness and greater reactivity.

CUP AND CONE BEARINGS

ALUMINIUM AXLE

130 WHEELS



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 Disc Brake 134

132 WHEELS 133

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

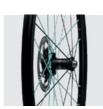
Carbon rim with unidirectional finish and a differentiated front/rear profile, modern rounded profile, new aluminium hubs, cup-and-cone bearing system. Every design decision is determined by the sole goal of improving cyclists' performance over long hours on the saddle, providing comfort and rideability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















FULL CARBON FIBER RIM, 21 mm INTERNAL CHANNEL, COMPATIBLE WITH BOTH TUBELESS AND CLINCHER TIRES:

the rim design allows the utmost versatility in tyre use, from the most comfortable for road use (25, 28, 30 mm) to the largest for cyclo-cross and gravel use (starting from 32 mm and going up to the largest, 45/50 mm).

DIFFERENTIATED PROFILE, FRONT 35 mm / REAR 40 mm:

the utmost comfort on longer rides, both in terms of bumps and ease of riding, without ever 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 unidirectional fiber used for the external application are of high modulous 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 -

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).

black anodized self-locking nipples outside the rim AVAILABLE F/W BODIES: 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).

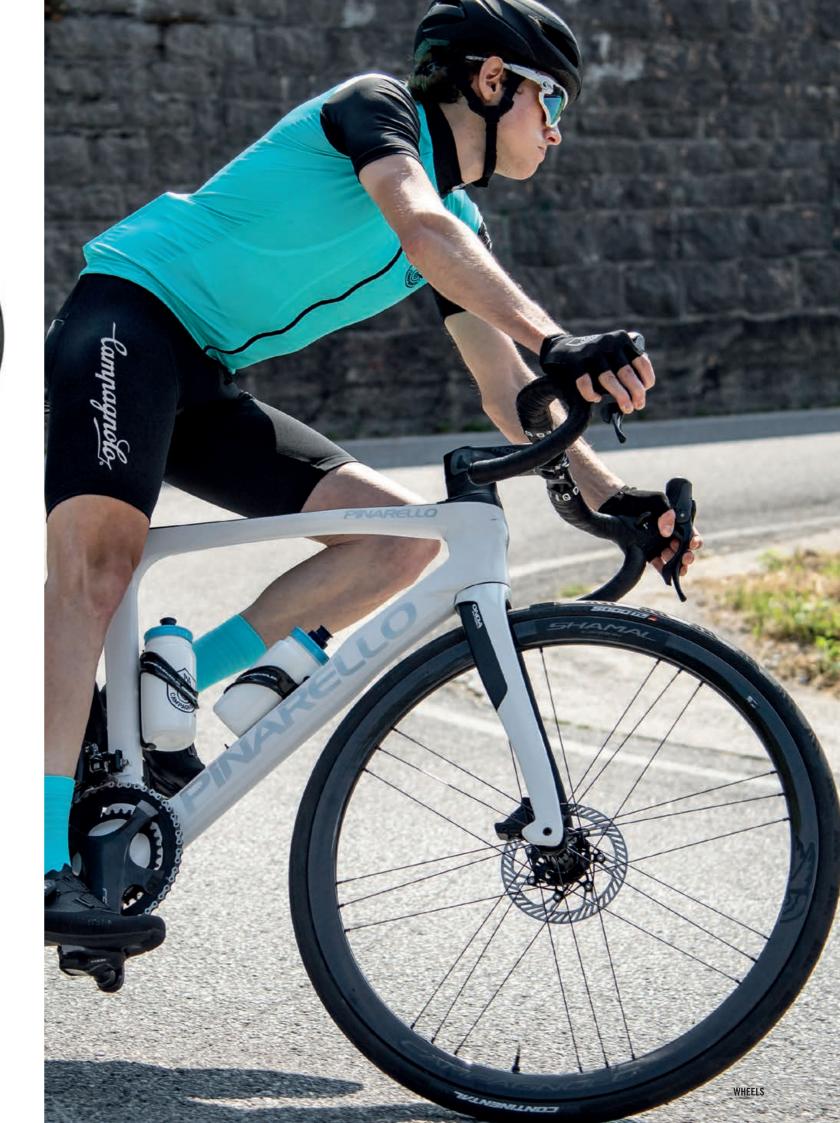
ALUMINIUM HUB SHELL:

permits an improved torque transfer across hub during the braking phase.

NEW CAMPAGNOLO N3W™ BODY:

the N3W[™] body will be fitted by default on our new wheels, all equipped with a 36-tooth rack (diameter of ratchets: 33mm) to offer better resistance to torque.

Campagnolo N3W™ - HG - XDR



the same time thanks to its wider stance and optimized material usage.



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.

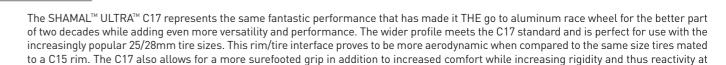
Dynamic BalanceTM, $G3^{TM}$ spoke design, $MoMag^{TM}$ construction and a cornucopia of other technologies make the Campagnolo[®] aluminum wheelsets the obvious choice for the discerning cyclist looking for something more under his or her frame.

 SHAMAL™ ULTRA
 Rim Brake
 137

 ZONDA™
 Rim Brake - Disc Brake
 138 - 139

 SCIROCCO™
 Rim Brake - Disc Brake
 140 - 141

 CALIMA™
 Rim Brake
 142



REAR WHEEL FRONT WHEEL





2-Way Fit[™]: 1475 g Clincher: 1449 g













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.

ULTRA-FIT™:

easy tire mounting – maximum safety – less friction – less energy dispersion – improved performance.

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-63™ 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.



Clincher: 1675 q











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.

RDB™ - 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.

MOMAG™:

allows the external profile of the rim to be free of holes to benefit of both stiffness and weight

SPOKES:

G3[™] technology applied also to the front wheel to better perform at high braking power.

FRONT WHEEL SPOKES:

14 spokes in stainless steel section diameter 2/1,6/2 mm (left side - braking side) 7 spokes in stainless steel section diameter 2/1,6/2 mm (right side).

REAR WHEEL SPOKES:

7 spokes in stainless steel section diameter 2/1,6/2 21 SPOKES IN STAINLESS STEEL WITH mm (left side)

14 spokes in stainless steel section diameter 2/1,6/2 mm (right side - cassette side).

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.

MEGA-G3™ SYSTEM:

ensures extremely good stiffness and reactivity, reinforcement on braking side at the front and cassette side at the rear. It gives a very race design to the wheelset.

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 $^{\text{TM}}$ 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.



MOMAG™:

allows the external profile of the rim to be free of holes - increases structural resistance - makes rim tape unnecessary and reduces the weight of the wheel.

MILLED RIM

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

DYNAMIC BALANCE™

SPOKES ANTI-ROTATION SYSTEM

keeps the spokes in the position of maximum aerodynamic penetration

EXCLUSIVE MEGA-G3™ SPOKE PATTERN:

perfect balance of spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel. Mega-G3™ eliminates vibrations even with "heavy" cyclists.

SPOKES WITH AERODYNAMIC PROFILE:

Front: 16 spoke variable profile Aero radials in stainless steel. Rear: 21 spoke variable profile Aero in stainless steel with doubling on the cassette side.

SELF-LOCKING NIPPLES:

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

REAR HUB WITH MEGA-G3™ OVERSIZED FI ANGE:

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. Small front hub aids in aerodynamic efficiency.

NEW ADJUSTING LOCK RING WITH MICRO-SETTING:

for an accurate adjustment of the hub that prevents the creation of play.

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 straighthead 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.



2-Way Fit™Ready: 1739 g











33 mm RIM HEIGHT:

extremely versatile rim profile. High enough for added aerodynamic efficiency that remains stable even in crosswinds. Low enough to ensure lightweight construction.

2-WAY FIT READY PROFILE WITH 19 mm INNER WIDTH:

ensures compatibility with the larger tire widths and unique design facilitates assembly. Allows use of either clincher or tubeless ready tyres according to the indications on the page related to the "2-Way Fit Ready" technology.

NIPPLE SUPPORT TAB INSIDE THE RIM:

unique solution reduces weight in addition to optimizing the distribution of tension to ensure a longer wheel lifetime.

WELDED RIM:

increase in lateral rigidity.

SPOKES:

 $\mbox{G3}^{\mbox{\tiny M}}$ technology applied also to the front wheel to better perform at high braking power.

FRONT WHEEL SPOKES:

14 spokes in stainless steel (left side - braking side)
7 spokes in stainless steel (right side).

REAR WHEEL SPOKES:

7 spokes in stainless steel (left side - braking side) 14 spokes in stainless steel (right side - cassette

NIDDI EC.

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

MEGA-G3 OVERSIZE FLANGE ON THE REAR WHEEL (FW BODY SIDE):

increases the torsional rigidity, increased reactivity.

MEGA-G3 OVERSIZE FLANGE ON THE FRONT WHEEL (DISC SIDE):

increases torsional rigidity and ensures greater rideability.

ALUMINIUM AXLE:

confers lightweight construction to wheel.

ADJUSTING LOCKING WITH MICRO-SETTING TECH:

for an accurate adjustment of the hub that prevents the creation of any play.

With the easily recognizable 35mm profile height, the Scirocco $^{\text{M}}$ 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 $^{\text{M}}$ 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.



Clincher: 1755 q











35 mm AERODYNAMIC PROFILE IN A MID-END ALUMINUM RIM:

aerodynamics in a mid-end aluminum rim. Advanced aero efficiency while being extremely easy to handle even in cross winds.

DYNAMIC BALANCE™:

every point of the rim is counter-balanced by an equal weight on the opposite side. Maximum stability of the wheel even at high speeds.

WELDED RIM:

to increase stiffness and braking surface precision allowing a smoother progressive braking.

AERODYNAMIC PROFILE:

radial spokes in stainless steel. 16 spoke radial configuration on the front wheel, 21 spokes with double spoke pattern on the cassette side.

EXCLUSIVE MEGA-G3™ SPOKE PATTERN:

the Mega-G3™ creates a perfect spoke tension balance on both sides of the wheel. This helps to reduce spoke stress, increases transversal rigidity and as a consequence improved power to wheel transmission.

INTERNAL RIM NIPPLE SUPPORT TABS:

as used in high end carbon wheels. The support tabs are used to guarantee a longer life of the wheel by distributing tension more efficiently.

ALUMINUM HUB AND AXLE:

saves weight and increases lateral stiffness.

MEGA-G3™ OVERSIZE FLANGE ON THE REAR WHEEL (CASSETTE SIDE):

this is used to increase torsional stiffness, creating greater reactivity with each change in the pace.

HI-END FREE HUB BODY:

the Scirocco™ hubs uses the same construction components normally reserved for high end hubs. Available in two options: Campagnolo (aluminum) and HG11 (in aluminum with the Plasma Electrolytic Oxidation treatment) low weight, high stiffness.

140 WHEELS 141



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®.



Clincher: 1826 g













24mm PROFILE:

a 24mm symmetrical low profile rim that creates a front wheel that is precise in directional changes and a rear wheel that is reactive to power transfer and changes in pace.

C17 CLASS FOR CLINCHER TYRES:

to permit the fitting of a wider tyre [25 mm minimum] allowing for easier tyre fitting.

glued rim for increased precision on the braking surface allowing smoother progressive braking.

MACHINED PRECISE SPOKE SEAT:

permitting a longer spoke life.

ED (ELECTRODEPOSITION) BLACK SPOKES:

Front: 18 radial spokes in steel Rear: 27 spokes in steel with double spoke count on the cassette side.

EXCLUSIVE G3™ SPOKE PATTERN:

creating a perfect balance of the spoke tension on both sides of the wheel. Reduces stress, increases transversal rigidity and the transmission of power to the wheel.

ALUMINUM HUBS:

for increased lateral stiffness.

G3™ FLANGE ON THE REAR WHEEL:

to increase torsional stiffness and greater reactivity with each change of pace.

STEEL AXLE:

increases wheel stiffness permitting a wheel geometry that allows the use of different free hub bodies.

Hi-end free hub body using the same construction components normally reserved for high end hubs. Available in two options: Campagnolo (aluminum) and HG11 (steel).



TRIATHLON TIMETRIAL

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

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

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.



EPS™ BAR-END CONTROLS











1. AERODYNAMIC PROFILE:

maximum aerodynamic coefficient.

MULTI-DOME TECH™:

1. BACK-TO-ZERO POSITION:

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.

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-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.

EPS™ BRAKE CONTROLS







2. QUICK-RELEASE SYSTEM:

it makes it easier to install and remove the wheel and allows, even during the race, to open the distance between the rim and the brake pads.

3. ERGONOMIC PROFILE FOR THE LEVERS:

maximum safety and adjustable braking system. - Carbon fibre (Record™ EPS™)

ONE LEVER-ONE ACTION:

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

DTI™ EPS™ V3 INTERFACE











45 g, cables included

GREEN: 100% - 60% FLASHING GREEN: 60% - 40% FLASHING RED: 6% - 0%

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.

ANALOGUE-DIGITAL SIGNAL CONVERSION:

transforms the analogue signals received from the controls into the digital signals transmitted to the Power Unit.

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.

ANALOGUE-DIGITAL SIGNAL CONVERSION:

transforms the analogue signals received from the controls into the digital signals transmitted to the Power Unit.

146 TRIATHLON - TIME TRIAL TRIATHLON - TIME TRIAL 147 RIGHT SIDE LEFT SIDE







Tubular: 864 g









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

the special blend increases the brake performance on both dry and wet surfaces without increasing the wear and tear on the pad or wheel.

WHEEL DEVELOPED FOR THE TIME TRIAL FULL CARBON DISC IN A SPECIALLY DEVELOPED WEAVE

extreme new design reduces profile on both drive and non-drive sides for an even slimmer and more aerodynamic design.

GRAPHICS FEATURING THE "WINGED WHEEL":

the legendary Campagnolo® "Winged Wheel" logo identifies Campagnolo® lenticular wheels that use the very latest carbon fiber technologies.

BEARINGS WITH CULT™ TECHNOLOGY:

the combination between the highest quality ceramic bearings and housing in special steel. CULT™ bearings have a friction coefficient 40% lower than standard sealed bearings, and in tests, can spin for 5 ½ times longer.

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:

compatibile with Campagnolo® 10, 11 and 12 speed cassettes as well as Shimano Inc. 9, 10, and 11 speed cassettes.

SUGGESTED WHEELS

BORA™ WTO 77 Front Rim Brake



BORAtm ULTRA WTO 60 Disc Brake



BORA™ WTO 60 Disc Brake / Rim Brake



BORAtm ULTRA WTO 45 Disc Brake



BORA™ WTO 45 Disc Brake / Rim Brake



148 TRIATHLON - TIME TRIAL TRIATHLON - TIME TRIAL 149



PISTA

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.

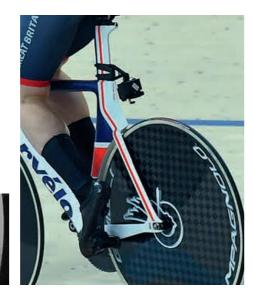
Track racing demands an incredible amount of expertise and extreme attention to detail in order for an athlete to be successful. It is with this same spirit that Campagnolo® develops its products; attention to detail, search for perfection and desire to continuously improve.



150 PISTA 151

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)





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



BEARINGS WITH CULT™ TECHNOLOGY:

the combination between the highest quality ceramic bearings and housing in special steel. new ultra-performance construction were able to CULT™ bearings have a friction coefficient 40% confer to **Alex Dowsett** a technological advantage lower than standard sealed bearings, and in tests, that played a fundamental role in breaking the can spin for 5 ½ times longer.

Available with standard track nuts and with 12mm thru axle at the front, in two versions with 100mm or 65mm O.L.D.

This new wheelset was proven not only via strenuous lab testing and countless hours under athletes in training, but also in competition.

In its first official competition the Ghibli $^{\text{\tiny{IM}}}$ and its Hour Record

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

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

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





Tubular: 705 g (front)







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.

RDB™ RIM DYNAMIC BALANCE

FULL CARBON HIGH PROFILE FOR 80mm SPOKES WITH AERODYNAMIC PROFILE:

provides the maximum aerodynamic penetration. Reduces aerodynamic drag saving rider energy.

SELF-LOCKING ALUMINIUM NIPPLES



BEARINGS WITH CULT™ TECHNOLOGY:

the combination between the highest quality ceramic bearings and housing in special steel. CULT[™] bearings have a friction coefficient 40% lower than standard sealed bearings, and in tests, can spin for 5 ½ times longer.

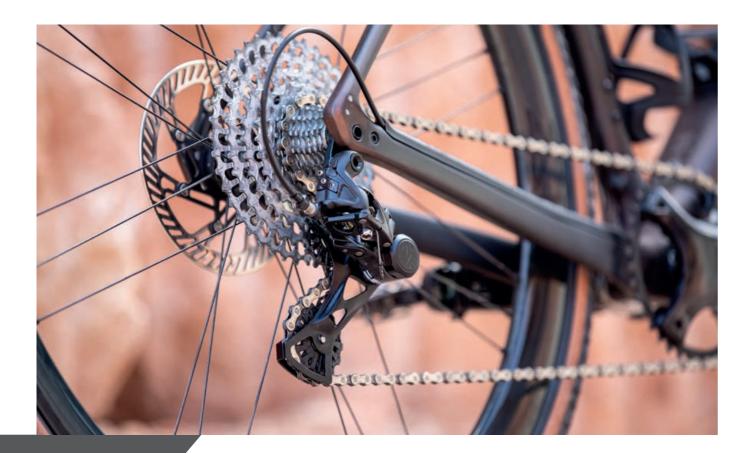
CARBON FIBRE HUB:

provides a high degree of lateral stiffness and reduces weight to the minimum.

CUP AND CONE BEARINGS

ALUMINIUM AXLE

152 PISTA PISTA 153



TECH DATA

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

Should you need yet more information please visit: www.campagnolo.com

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

GROUPSETS	159
TRIATHLON / TIME-TRIAL	165
WHEELS	166
SERVICE CENTER - SALES NETWORK	172

GRAVEL GROUPSETS





COMPONENT	OPTIONS	WEIGHT [g]	WEIGHT REFERENCE
EKAR™ rear derailleur	-	275	standard hanger version
EKAR™ Ergopower™ DB controls	-	420	Pair
EKAR™ crankset	165 mm, 170 mm, 172,5 mm, 175 mm 38, 40, 42, 44	615	172,5 mm, 38
PRO-TECH™ threaded cups	ITA: 70x (36x24 tpi) BSA: 68x (1,37"x24 tpi)	50	BSA
PRO-TECH™ press-fit cups	BB30: (68x42) mm BB86: (86,5x41) mm PF30: (68x46) mm BB386: (86,5x46) mm BB RIGHT: (79x46) mm BB30A: (73x42) mm T47x68 T47x86	50	BB86
EKAR™ sprockets	9-36 (9-10-11-12-13-14-16-18-20-23-27-31-36) 9-42 (9-10-11-12-13-14-16-18-21-25-30-36-42) 10-44 (10-11-12-13-14-15-17-20-23-27-32-38-44)	340	9-36
EKAR™ chain	117 links / C-Link 118 links / Classic Pin	242	117 links
EKAR™ caliper	140 mm	95	140 mm Rear (1 piece – pads included)
EKAR™ rotor	160 mm 140 mm	123	140 mm (1 piece)
COMPLETE GROUPSET		2.385	2 calipers 2 rotors

EXTRA COMPONENTS	OPTIONS	CATEGORY
Rear Caliper Bolts	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	Disc Brake (MANDATORY)
Oil	50 ml	Disc Brake
Bleeding Kit	-	Disc Brake
140 mm to 160 mm Rear Caliper adapter	-	Disc Brake
EKAR™ Bottle cage	-	General
EKAR™ Bottle	550 ml	General

54 155

ROAD GROUPSETS TECH DATA



DISC BRAKE



COMPONENT	OPTIONS	WEIGHT [g]	WEIGHT REFERENCE
SUPER RECORD™ EPS™ rear derailleur	compatible with sprocket sets 11-29, 11-32	234	cables included
SUPER RECORD™ EPS™ Ergopower™ DB controls	-	381	Pair (cables included)
SUPER RECORD™ EPS™ front derailleur	-	132	cables included
DTI™ EPS™ V4 Power Unit	-	135	cables included
DTI™ EPS™ V4 External Interface	-	33	cables included
DTI™ EPS™ V4 Internal Interface	-	11	cables excluded
SUPER RECORD™ crankset	165 mm, 170 mm, 172,5 mm, 175 mm 39-53 - 36-52 - 34-50	618	172,5 mm, 34-50 (2 bearings assembled)
SUPER RECORD™ ULTRA-TORQUE™ threaded cups	ITA: 70x (36x24 tpi) BSA: 68x (1,37"x24 tpi)	43	BSA
ULTRA-TORQUE™ press-fit cups	BB30: (68x42) mm, BB86: (86,5x41) mm, PF30: (68x46) mm, BB386: (86,5x46) mm, BB RIGHT: (79x46) mm, BB30A: (73x42) mm	40	BB86
SUPER RECORD™ sprockets	11-29 11-32	266	11-29
SUPER RECORD™ chain	-	220	110 links
CAMPAGNOLO® caliper	160 mm Front 160 mm Rear 140 mm Rear	118	140 mm Rear (1 piece - pads included)
CAMPAGNOLO® rotor	160 mm 140 mm	99	140 mm (1 piece)
COMPLETE GROUPSET		2.497	2 calipers 2 rotors

EXTRA COMPONENTS	OPTIONS	CATEGORY
EPS™ V4 Power Unit Holder	for bottle cage for ø 27 mm seatpost for ø 32 mm seatpost	EPS™ V4
EPS™ Battery Charger	-	EPS™
EPS™ Power Cable	AUS CEE UK US	EPS™
RECORD™ EPS™ extension cable kit	-	EPS™ SUPER RECORD™/RECORD™
Rear Caliper Bolts	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	Disc Brake (MANDATORY)
Oil	100 ml, 250 ml, 1.000 ml	Disc Brake
Bleeding Kit	-	Disc Brake
140 mm to 160 mm Rear Caliper adapter	-	Disc Brake
Chain Guard	for braze-on for ø 32/35 clamp	Accessory
Front Derailleur Clamp	ø 32 mm - ø 35 mm	Accessory
Front Derailleur Stiffness Increaser	-	Accessory
RECORD™ Headset	-	General
RECORD™ front hub	-	General
RECORD™ rear hub	-	General



RIM BRAKE

12×2 SPEED*

COMPONENT	OPTIONS	WEIGHT [g]	WEIGHT REFERENCE
SUPER RECORD™ EPS™ rear derailleur	compatible with sprocket sets 11-29, 11-32	234	cables included
SUPER RECORD™ EPS™ Ergopower™ controls	-	280	Pair (cables included)
SUPER RECORD™ EPS™ front derailleur	-	132	cables included
DTI™ EPS™ V4 Power Unit	-	135	cables included
DTI™ EPS™ V4 External Interface	-	33	cables included
DTI™ EPS™ V4 Internal Interface	-	11	cables excluded
SUPER RECORD™ crankset	165 mm, 170 mm, 172,5 mm, 175 mm 39-53 - 36-52 - 34-50	618	172,5 mm, 34-50 (2 bearings assembled)
SUPER RECORD™ ULTRA-TORQUE™ threaded cups	ITA: 70x (36x24 tpi) BSA: 68x (1,37"x24 tpi)	43	BSA
ULTRA-TORQUE™ press-fit cups	BB30: (68x42) mm, BB86: (86,5x41) mm, PF30: (68x46) mm, BB386: (86,5x46) mm, BB RIGHT: (79x46) mm, BB30A: (73x42) mm	40	BB86
SUPER RECORD™ sprockets	11-29 11-32	266	11-29
SUPER RECORD™ chain	-	220	110 links
SUPER RECORD™ brakes	-	311	Pair
CAMPAGNOLO® direct mount brake	Front Rear Seat Stay	168	1 piece
COMPLETE GROUPSET		2.247	-

EXTRA COMPONENTS	OPTIONS	CATEGORY
EPS™ V4 Power Unit Holder	for bottle cage for ø 27 mm seatpost for ø 32 mm seatpost	EPS™ V4
EPS™ Battery Charger	-	EPS™
EPS™ Power Cable	AUS CEE UK US	EPS™
RECORD™ EPS™ extension cable kit	-	EPS™ SUPER RECORD™/RECORD™
RECORD™ direct mount brake	Rear Under BB	Brakes
Chain Guard	for braze-on for ø 32/35 clamp	Accessory
Front Derailleur Clamp	ø 32 mm ø 35 mm	Accessory
Front Derailleur Stiffness Increaser	-	Accessory
RECORD™ Headset	-	General
RECORD™ front hub	-	General
RECORD™ rear hub	-	General

GROUPSETS TECH DATA



DISC BRAKE



COMPONENT	OPTIONS	WEIGHT [g]	WEIGHT REFERENCE
SUPER RECORD™ rear derailleur	compatible with sprocket sets 11-29, 11-32, 11-34	181	standard hanger version
SUPER RECORD™ Ergopower™ DB controls	-	462	Pair
SUPER RECORD™ front derailleur	-	79	-
SUPER RECORD™ crankset	165 mm 170 mm 172,5 mm 175 mm 39-53 36-52 34-50	618	172,5 mm, 34-50 (2 bearings assembled)
SUPER RECORD™ ULTRA-TORQUE™ threaded cups	ITA: 70x (36x24 tpi) BSA: 68x (1,37"x24 tpi)	43	BSA
ULTRA-TORQUE™ press-fit cups	BB30: (68x42) mm BB86: (86,5x41) mm PF30: (68x46) mm BB386: (86,5x46) mm BB RIGHT: (79x46) mm BB30A: (73x42) mm	40	BB86
SUPER RECORD™ sprockets	11-29 11-32 11-34	266	11-29
SUPER RECORD™ chain	-	220	110 links
CAMPAGNOLO® caliper	160 mm Front 160 mm Rear 140 mm	118	140 mm (1 piece - pads included)
CAMPAGNOLO® 03 rotor	160 mm 140 mm	99	140 mm (1 piece)
COMPLETE GROUPSET		2.326	2 calipers 2 rotors

EXTRA COMPONENTS	OPTIONS	CATEGORY
Rear Caliper Bolts	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	Disc Brake (MANDATORY)
Oil	100 ml 250 ml 1.000 ml	Disc Brake
Bleeding Kit	-	Disc Brake
140 mm to 160 mm Rear Caliper adapter	-	Disc Brake
Chain Guard	for braze-on for ø 32/35 clamp	Accessory
Front Derailleur Clamp	ø 32 mm ø 35 mm	Accessory
Front Derailleur barrel adjuster	-	Accessory
RECORD™ Headset	-	General
RECORD™ front hub	-	General
RECORD™ rear hub	-	General



12×2 SPEED"

RIM BRAKE

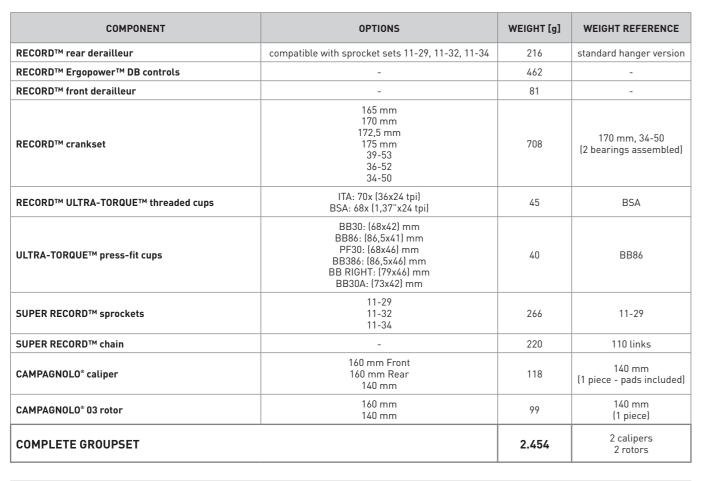
COMPONENT	OPTIONS	WEIGHT [g]	WEIGHT REFERENCE
SUPER RECORD™ rear derailleur	compatible with sprocket sets 11-29, 11-32, 11-34	181	standard hanger version
SUPER RECORD™ Ergopower™ controls	-	339	Pair
SUPER RECORD™ front derailleur	-	79	-
SUPER RECORD™ crankset	165 mm 170 mm 172,5 mm 175 mm 39-53 36-52 34-50	618	172,5 mm, 34-50 (2 bearings assembled)
SUPER RECORD™ ULTRA-TORQUE™ threaded cups	ITA: 70x (36x24 tpi) BSA: 68x (1,37"x24 tpi)	43	BSA
ULTRA-TORQUE™ press-fit cups	BB30: (68x42) mm BB86: (86,5x41) mm PF30: (68x46) mm BB386: (86,5x46) mm BB RIGHT: (79x46) mm BB30A: (73x42) mm	40	BB86
SUPER RECORD™ sprockets	11-29 11-32 11-34	266	11-29
SUPER RECORD™ chain	-	220	110 links
SUPER RECORD™ brakes	-	311	Pair
CAMPAGNOLO® direct mount brake	Front Rear Seat Stay	168	1 piece
COMPLETE GROUPSET		2.062	

EXTRA COMPONENTS	OPTIONS	CATEGORY
RECORD™ direct mount brake	Rear Under BB	Brakes
Chain Guard	for braze-on for ø 32/35 clamp	Accessory
Front Derailleur Clamp	ø 32 mm ø 35 mm	Accessory
Front Derailleur barrel adjuster	-	Accessory
RECORD™ Headset	-	General
RECORD™ front hub	-	General
RECORD™ rear hub	-	General

ROUPSETS TECH DATA







EXTRA COMPONENTS	OPTIONS	CATEGORY
Rear Caliper Bolts	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	Disc Brake (MANDATORY)
Oil	100 ml 250 ml 1.000 ml	Disc Brake
Bleeding Kit	-	Disc Brake
140 mm to 160 mm Rear Caliper adapter	-	Disc Brake
Chain Guard	for braze-on for ø 32/35 clamp	Accessory
Front Derailleur Clamp	ø 32 mm ø 35 mm	Accessory
Front Derailleur barrel adjuster	-	Accessory
RECORD™ Headset	-	General
RECORD™ front hub	-	General
RECORD™ rear hub	-	General





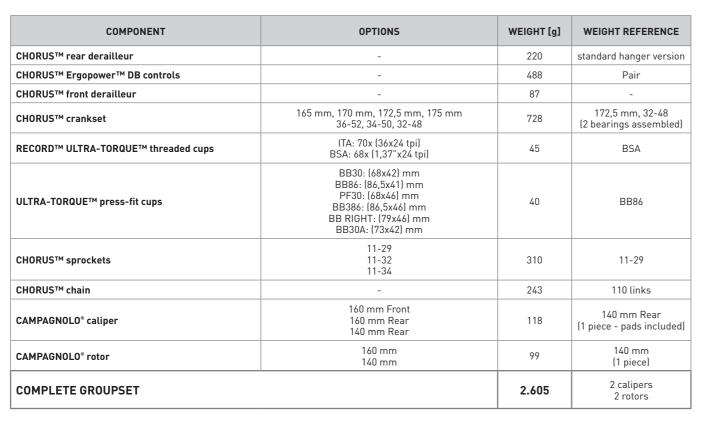
COMPONENT	OPTIONS	WEIGHT [g]	WEIGHT REFERENCE
RECORD™ rear derailleur	compatible with sprocket sets 11-29, 11-32, 11-34	216	standard hanger version
RECORD™ Ergopower™ controls	-	343	-
RECORD™ front derailleur	-	81	-
RECORD™ crankset	165 mm 170 mm 172,5 mm 175 mm 39-53 36-52 34-50	708	170 mm, 34-50 (2 bearings assembled)
RECORD™ ULTRA-TORQUE™ threaded cups	ITA: 70x (36x24 tpi) BSA: 68x (1,37"x24 tpi)	45	BSA
ULTRA-TORQUE™ press-fit cups	BB30: (68x42) mm BB86: (86,5x41) mm PF30: (68x46) mm BB386: (86,5x46) mm BB RIGHT: (79x46) mm BB30A: (73x42) mm	40	BB86
SUPER RECORD™ sprockets	11-29 11-32 11-34	266	11-29
SUPER RECORD™ chain	-	220	110 links
RECORD™ brakes	-	326	Pair
CAMPAGNOLO® direct mount brake	Front Rear Seat Stay	168	1 piece
COMPLETE GROUPSET	2.200		

EXTRA COMPONENTS	OPTIONS	CATEGORY				
RECORD™ direct mount brake	Rear Under BB	Brakes				
Chain Guard	for braze-on for ø 32/35 clamp	Accessory				
Front Derailleur Clamp	ø 32 mm ø 35 mm	Accessory				
Front Derailleur barrel adjuster	-	Accessory				
RECORD™ Headset	-	General				
RECORD™ front hub	-	General				
RECORD™ rear hub	-	General				

ROUPSETS TECH DATA







EXTRA COMPONENTS	OPTIONS	CATEGORY
Rear Caliper Bolts	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	Disc Brake (MANDATORY)
Oil	100 ml, 250 ml, 1.000 ml	Disc Brake
Bleeding Kit	-	Disc Brake
140 mm to 160 mm Rear Caliper adapter	-	Disc Brake
Chain Guard	for braze-on for ø 32/35 clamp	Accessory
Front Derailleur Clamp	ø 32 mm ø 35 mm	Accessory
Front Derailleur cable deviator insert	-	Accessory
Front Derailleur barrel adjuster	-	Accessory
RECORD™ Headset	-	General
RECORD™ front hub	-	General
RECORD™ rear hub	-	General





COMPONENT	OPTIONS	WEIGHT [g]	WEIGHT REFERENCE			
CHORUS™ rear derailleur	-	220	standard hanger version			
CHORUS™ Ergopower™ controls	-	362	Pair			
CHORUS™ front derailleur	-	87	-			
CHORUS™ crankset	165 mm, 170 mm, 172,5 mm, 175 mm 36-52, 34-50, 32-48	728	172,5 mm, 32-48 (2 bearings assembled)			
RECORD™ ULTRA-TORQUE™ threaded cups	ITA: 70x (36x24 tpi) BSA: 68x (1,37"x24 tpi)	45	BSA			
ULTRA-TORQUE™ press-fit cups	BB30: (68x42) mm BB86: (86,5x41) mm PF30: (68x46) mm BB386: (86,5x46) mm BB RIGHT: (79x46) mm BB30A: (73x42) mm	40	BB86			
CHORUS™ sprockets	11-29 11-32 11-34	310	11-29			
CHORUS™ chain	-	243	110 links			
CHORUS™ brakes	-	318	Pair			
DIRECT™ direct mount brake	Front Rear Seat Stay	183	110 links			
COMPLETE GROUPSET	2.308					

EXTRA COMPONENTS	OPTIONS	CATEGORY
Chain Guard	for braze-on for ø 32/35 clamp	Accessory
Front Derailleur Clamp	ø 32 mm ø 35 mm	Accessory
Front Derailleur cable deviator insert	-	Accessory
Front Derailleur barrel adjuster	-	Accessory
RECORD™ Headset	-	General
RECORD™ front hub	-	General
RECORD™ rear hub	-	General

ROUPSETS







COMPONENT	OPTIONS	WEIGHT [g]	WEIGHT REFERENCE		
CENTAUR™ rear derailleur	-	230	short cage		
CENTAUR™ Ergopower™ controls	-	373	Pair		
CENTAUR™ front derailleur	-	103	-		
CENTAUR™ crankset	170 mm 172,5 mm 175 mm 36-52 34-50	875	170 mm, 34-50 (2 bearings assembled)		
RECORD™ ULTRA-TORQUE™ threaded cups	ITA: 70x (36x24 tpi) BSA: 68x (1,37"x24 tpi)	45	BSA		
ULTRA-TORQUE™ press-fit cups	BB30: (68x42) mm BB86: (86,5x41) mm PF30: (68x46) mm BB386: (86,5x46) mm BB RIGHT: (79x46) mm BB30A: (73x42) mm	40	BB86		
CENTUAR sprockets	11-29 11-32 12-32	291	11-29		
CAMPAGNOLO 11™ chain	-	256	114 links		
CENTAUR™ brakes	-	325	Pair		
DIRECT™ direct mount brake	Front Rear Seat Stay	183	1 piece		
COMPLETE GROUPSET		2.493			

EXTRA COMPONENTS	OPTIONS	CATEGORY
Chain Guard	for braze-on for ø 32/35 clamp	Accessory
Front Derailleur Clamp	ø 32 mm ø 35 mm	Accessory
Front Derailleur cable deviator insert	-	Accessory
Front Derailleur barrel adjuster	-	Accessory
RECORD™ Headset	-	General
RECORD™ front hub	-	General
RECORD™ rear hub	-	General
SUPER RECORD™ Bottle cage	-	General
SUPER RECORD™ Bottle	550 ml 750 ml thermal	General
RECORD™ front hub	-	General
RECORD™ rear hub	-	General

INTEGRATED CUPS

Uniquely compatible with all the frames on the market.

Thanks to accurate design that meets client needs, Campagnolo® cranksets can in fact be fitted to any type of frame: from the standard Italian to English types, to Press-Fit bottom brackets of BB86 86.5x41, BB30 68x42, PF30 68x46, BB386 86.5x46, BB30 68x42, BB30A 73x42 and BB RIGHT 79x46 with new design to improve coupling with Press-Fit bottom brackets on the market.

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

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

	THREAD									
ULTRA TORQUE™	ITA	BSA								
	70x (36x24 tpi)	68x (1,37"x24 tpi)								
SUPER RECORD [®]										
	OC12-SRI	OC12-SRG								
recorp.										
CHOFUS"										
CENTAUR										
	OC12-REI	OC12-REG								

			PRE	SS-FIT		
ULTRA TORQUE™	BB30	BB30A	BB86	PF30	BB RIGHT	BB386
	68x42	73x42	86,5x41	68x46	79x46	86,5x46
SUPER RECORD						
recorp.						
CHOFUS"		-			E di	
<u>centaur</u>						
	IC15-RE42	IC19-UT73	IC15-RE41	IC15-RE46	IC15-UTR51E	IC15-UT386

TRIATHLON / TIME-TRIAL

iexe speed

EXTRA COMPONENTS	OPTIONS		CATEGORY		
SUPER RECORD™ TT EPS™ shifting levers	-	98	Pair		
SUPER RECORD™ TT EPS™ brake levers	-	110	Pair		
TT DTI™ EPS™ V4 interface	-	45 cables included			

WHEELS TECH DATA

ROAD - RIM BRAKE

PERFORMANCE/AERO CARBON WHEELS

BORA™ ULTRA™ TT rear tub.	864	carbon	D/20		В	carb				carbon			130	alu	•	С	black		9/10/11/12
BORA™ ULTRA™ TT rear tub. (HG)	864	carbon	D/20		В	carb				carbon			130	alu	•	С	black		9/10/11
BORA™ WTO 77 2-Way Fit™ front	755	carbon	77/26,5	•	В	UD	16		RDB	SS	UAE DB	alu	100	alu	•	С	black	•	
BORA™ WTO 60 2-Way Fit™ front	688	carb	60/26,5	•	B/D	UD	18		RDB	SS	UAE DB	alu	100	alu	•	U	black	•	
BORA™ WTO 60 2-Way Fit™ rear	859	carb	60/26,5	•	B/D	UD	21/G3™		RDB	SS	UAE DB	alu	130	alu	•	U	black	•	9/10/11/12
BORA™ WTO 60 2-Way Fit™ rear (HG)	859	carb	60/26,5	•	B/D	UD	21/G3™		RDB	SS	UAE DB	alu	130	alu	•	U	black	•	9/10/11
BORA™ WTO 45 2-Way Fit™ front	657	carb	45/26,5	•	B/D	UD	18		RDB	SS	UAE DB	alu	100	alu	•	U	black	•	
BORA™ WTO 45 2-Way Fit™ rear	839	carb	45/26,5	•	B/D	UD	21/G3™		RDB	SS	UAE DB	alu	130	alu	•	U	black	•	9/10/11/12
BORA™ WTO 45 2-Way Fit™ rear (HG)	839	carb	45/26,5	•	B/D	UD	21/G3™		RDB	SS	UAE DB	alu	130	alu	•	U	black	•	9/10/11
BORA™ WTO 33 2-Way Fit™ front	593	carb	33/26,5	•	B/D	UD	18		RDB	SS	UAE DB	alu	100	alu	•	U	black	•	
BORA™ WTO 33 2-Way Fit™ rear	795	carb	33/26,5	•	B/D	UD	21/G3™		RDB	SS	UAE DB	alu	130	alu	•	U	black	•	9/10/11/12
BORA™ WTO 33 2-Way Fit™ rear (HG)	795	carb	33/26,5	•	B/D	UD	21/G3™		RDB	SS	UAE DB	alu	130	alu	•	U	black	•	9/10/11
BORA™ ULTRA™ 35 front tub.	480	carb	35/24,2		B/D	carb	18		RDB	SS	AE DB	alu	100	carb	•	С	blk/carb	•	
BORA™ ULTRA™ 35 rear tub.	690	carb	35/24,2		B/D	carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	С	blk/carb	•	9/10/11/12
BORA™ ULTRA™ 35 rear tub. (HG)	690	carb	35/24,2		B/D	carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	С	blk/carb	•	9/10/11
BORA™ ULTRA™ 50 front tub.	520	carb	50/24,2		B/D	carb	18		RDB	SS	AE DB	alu	100	carb	•	С	carb	•	
BORA™ ULTRA™ 50 rear tub.	695	carb	50/24,2		B/D	carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	С	blk/carb	•	9/10/11/12
BORA™ ULTRA™ 50 rear tub. (HG)	695	carb	50/24,2		B/D	carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	С	blk/carb	•	9/10/11
BORA™ ULTRA™ 35 front cl.	575	carb	35/24,2		B/D	carb	18		RDB	SS	AE DB	alu	100	carb	•	С	blk/carb	•	
BORA™ ULTRA™ 35 rear cl.	785	carb	35/24,2		B/D	carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	С	blk/carb	•	9/10/11/12
BORA™ ULTRA™ 35 rear cl. (HG)	785	carb	35/24,2		B/D	carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	С	blk/carb	•	9/10/11
BORA™ ULTRA™ 50 front cl.	630	carb	50/24,2		B/D	carb	18	-	RDB	SS	AE DB	alu	100	carb	•	С	carb	•	
BORA™ ULTRA™ 50 rear cl.	805	carb	50/24,2		B/D	carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	С	blk/carb	•	9/10/11/12
BORA™ ULTRA™ 50 rear cl. (HG)	805	carb	50/24,2		B/D	carb	21/G3™		RDB	SS	AE DB	alu	130	carb	•	С	blk/carb	•	9/10/11

KEY

166 WHEELS TECH DATA 167

WHEELS TECH DATA

ROAD - RIM BRAKE	NOMINAL WE.	RIMMATERAL	RIM SECTION: HEIGHTWIDTH - THE			REQUIRES RIM TAPE RIM FINISHING	NUMBER OF SPOKES	DYNAMIC BALANO	SPOKES MATE.	SPOKE NPE	SPONES RAL	LE MATERIAL	HUB BODY MATTER	CUPS.	S & CONES BEARINGS BEARINGS	HUB FINISHING	SPONE ANT.	COMPATIBILITY
ALUMINIUM WHEELS																		
SHAMAL™ ULTRA™ front cl. SHAMAL™ ULTRA™ rear cl. SHAMAL™ ULTRA™ rear cl. (HG)	623 826 826	alu alu alu	24-27/22 27-30/22 27-30/22		B B B	black black black	16 21/G3™ 21/G3™	RDB RDB RDB	alu alu alu	AE DB AE DB AE DB	alu alu alu	100 130 130	alu/carb alu/carb alu/carb	•	U U U	blk/carb blk/carb blk/carb	•	9/10/11/12 9/10/11
SHAMAL™ ULTRA™ 2-Way Fit™ front SHAMAL™ ULTRA™ 2-Way Fit™ rear SHAMAL™ ULTRA™ 2-Way Fit™ rear (HG)	641 834 834	alu alu alu	24-27/22 27-30/22 27-30/22	•	B B B	black black black	16 21/G3™ 21/G3™	RDB RDB RDB	alu alu alu	AE DB AE DB AE DB	alu alu alu	100 130 130	alu/carb alu/carb alu/carb	•	U U U	blk/carb blk/carb blk/carb	•	9/10/11/12 9/10/11
ZONDA™ front cl. ZONDA™ rear cl. ZONDA™ rear cl. (HG)	678 862 862	alu alu alu	24-27/22 27-30/22 27-30/22		B B B	black black black	16 21/G3™ 21/G3™	RDB RDB RDB	SS SS SS	AE DB AE DB AE DB	BR BR BR	100 130 130	alu alu alu	•	S S S	black black black	•	9/10/11/12 9/10/11
SCIROCCO™ front cl. SCIROCCO™ rear cl. SCIROCCO™ rear cl. (HG)	820 935 935	alu alu alu	35/22 35/22 35/22		B B B	blackblackblack	16 21/G3™ 21/G3™		SS SS SS	AE DB AE DB AE DB	alu alu alu	100 130 130	alu alu alu		S S S	black black black	•	9/10/11/12 9/10/11
CALIMA™ front cl. CALIMA™ rear cl. CALIMA™ rear cl. (HG)	789 1037 1089	alu alu alu	24/22 24/22 24/22		B B B	blackblackblack	18 27/G3™ 27/G3™		S S S		BR BR BR	100 130 130	alu alu alu		S S S	black black black		9/10/11/12 9/10/11
TRIATHLON - TIME TRIAL																		
BORA™ ULTRA™ TT rear tub. BORA™ ULTRA™ TT rear tub. (HG)	864 864	carbon carbon	D/20 D/20		B B	carb carb			carbon carbon			130 130	alu alu	•	C C	black black		9/10/11/12 9/10/11
PISTA																		
GHIBLI™ front tub. track GHIBLI™ front tub. track GHIBLI™ rear tub. track	800 810 825	carb carb carb	D/20 D/20 D/20									100 65 120	alu alu alu	•	C C C			
BORA™ ULTRA™ 80 front tub. track	705	carb	80/20		В	carb	16	RDB	SS	AE DB	alu	100	carb	•	С	blk/carb	•	

168 WHEELS TECH DATA 169

KEY

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

*B=Bright - D=Dark - BLK SAT=black satinized

WHEELS TECH DATA

ROAD - DISC BRAKE	NOMINAL WEIGHT	*.OMT (9)*	RIM SECTION: NOMINALI OTH - m.	MITEA-FITTIN	S138V7	REQUIRES RIM TAPE	KIM FINISHING	NUMBER OF SPOKES		DYNAMIC BALAN.	SPOKES MATE	" ERML SPOKE TYPE	SPOKES RITAL	MIPPLE MATE	0.L.D. (mm)	HUB BODY MATT	CUPS & C	CONES BEARING BEARINGS INTE	HUB FINISHING	SPOKE ANTI-DO	COMPATIBILITY
PERFORMANCE/AERO CARBON WHEELS																					
BORA™ ULTRA WTO 60 DB 2-Way Fit front BORA™ ULTRA WTO 60 DB 2-Way Fit rear (N3W) BORA™ ULTRA WTO 60 DB 2-Way Fit rear (HG) BORA™ ULTRA WTO 60 DB 2-Way Fit rear (XDR)	710 820 818 806	carb carb carb carb	60/26,1 60/26,1 60/26,1 60/26,1	•	D D D	l I	JD JD	24/G3 TM 24/G3 TM 24/G3 TM 24/G3 TM		RDB RDB RDB RDB	SS SS SS SS	UAE DB UAE DB UAE DB UAE DB		alu alu alu alu	100 142 142 142	carb alu alu alu	:	C C C	blk/carb black black black	•	9/10/11/12 9/10/11 12
BORA™ ULTRA WTO 45 DB 2-Way Fit front BORA™ ULTRA WTO 45 DB 2-Way Fit rear (N3W) BORA™ ULTRA WTO 45 DB 2-Way Fit rear (HG) BORA™ ULTRA WTO 45 DB 2-Way Fit rear (XDR)	660 765 763 751	carb carb carb carb	45/26,1 45/26,1 45/26,1 45/26,1	•	D D D	l I	JD JD	24/G3 TM 24/G3 TM 24/G3 TM 24/G3 TM		RDB RDB RDB RDB	SS SS SS	UAE DB UAE DB UAE DB UAE DB		alu alu alu alu	100 142 142 142	carb alu alu alu	•	C C C	blk/carb black black black	•	9/10/11/12 9/10/11 12
BORA™ ULTRA WTO 33 DB 2-Way Fit front BORA™ ULTRA WTO 33 DB 2-Way Fit rear (N3W) BORA™ ULTRA WTO 33 DB 2-Way Fit rear (HG) BORA™ ULTRA WTO 33 DB 2-Way Fit rear (XDR)	640 745 743 731	carb carb carb carb	33/27,4 33/27,4 33/27,4 33/27,4	•	D D D	l I	JD JD	24/G3 TM 24/G3 TM 24/G3 TM 24/G3 TM		RDB RDB RDB RDB	SS SS SS	UAE DB UAE DB UAE DB UAE DB		alu alu alu alu	100 142 142 142	carb alu alu alu	•	C C C	blk/carb black black black	•	9/10/11/12 9/10/11 12
BORA™ WTO 60 DB 2-Way Fit™ front BORA™ WTO 60 DB 2-Way Fit™ rear BORA™ WTO 60 DB 2-Way Fit™ rear (HG) BORA™ WTO 60 DB 2-Way Fit™ rear (XDR)	749 841 844 832	carb carb carb carb	60/26,1 60/26,1 60/26,1 60/26,1	•	D D D	l I	JD JD	24/G3™ 24/G3™ 24/G3™ 24/G3™		RDB RDB RDB RDB	SS SS SS	UAE DB UAE DB UAE DB UAE DB		alu alu alu alu	100 142 142 142	alu alu alu alu	•	U U U	black black black black	•	9/10/11/12 9/10/11 12
BORA™ WTO 45 DB 2-Way Fit™ front BORA™ WTO 45 DB 2-Way Fit™ rear BORA™ WTO 45 DB 2-Way Fit™ rear (HG) BORA™ WTO 45 DB 2-Way Fit™ rear (XDR)	708 812 812 805	carb carb carb carb	45/26,5 45/26,5 45/26,5 45/26,5	•	D D D	l I	JD JD	24/G3 TM 24/G3 TM 24/G3 TM 24/G3 TM		RDB RDB RDB RDB	SS SS SS	UAE DB UAE DB UAE DB UAE DB		alu alu alu alu	100 142 142 142	alu alu alu alu	•	U U U	black black black black	•	9/10/11/12 9/10/11 12
BORA™ WTO 33 DB 2-Way Fit™ front BORA™ WTO 33 DB 2-Way Fit™ rear BORA™ WTO 33 DB 2-Way Fit™ rear (HG) BORA™ WTO 3 DB 2-Way Fit™ rear (XDR)	675 775 775 768	carb carb carb carb	33/26,1 33/26,1 33/26,1 33/26,1	•	D D D	l l	JD D	24/G3 TM 24/G3 TM 24/G3 TM 24/G3 TM		RDB RDB RDB RDB	SS SS SS SS	UAE DB UAE DB UAE DB UAE DB		alu alu alu alu	100 142 142 142	alu alu alu alu	•	U U U	black black black black	•	9/10/11/12 9/10/11 12
ENDURANCE CARBON WHEELS	S																				
SHAMAL™ CARBON DB 2-Way Fit™ front SHAMAL™ CARBON DB 2-Way Fit™ rear (N3W) SHAMAL™ CARBON DB 2-Way Fit™ rear (HG) SHAMAL™ CARBON DB 2-Way Fit™ rear (XDR)	723 849 852 841	carb carb carb	35/28,1 40/28,1 40/28,1 40/28,1	•	D D D	1	JD D	24/G3™ 24/G3™ 24/G3™ 24/G3™		RDB RDB RDB RDB	SS SS SS	AE DB AE DB AE DB AE DB		alu alu alu alu	100 142 142 142	alu alu alu alu	•	S S S	black black black black	•	9/10/11/12 9/10/11 12
ALUMINIUM WHEELS																					
ZONDA™ DB front cl. ZONDA™ DB rear cl. ZONDA™ DB rear cl. (HG)	786 889 889	alu alu alu	26-28/22 26-28/22 26-28/22		B B B	bl	ack	21/G3™ 21/G3™ 21/G3™		RDB RDB RDB	SS SS SS	AE DB AE DB AE DB		alu alu alu	100 135-142 135-142	alu alu alu	•	S S S	black black black	•	9/10/11/12 9/10/11
SCIROCCO™ DB 2-Way Fit™ ready front SCIROCCO™ DB 2-Way Fit™ ready rear SCIROCCO™ DB 2-Way Fit™ ready rear (HG)	819 920 920	alu alu alu	33/24,2 33/24,2 33/24,2	•	B B B	• bl	ack	21/G3 TM 21/G3 TM 21/G3 TM			SS SS SS			alu alu alu	100 135-142 135-142	alu alu alu		S S S	black black black		9/10/11/12 9/10/11

KEY

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

170 WHEELS TECH DATA 171

DB=Butted - AE=Aero - UAE=Ultra Aero - SS=Stainless steel - BR=Brass - S=steel - U=USB™ - C=CULT™ - SDB=Spoke Dynamic Balance - RDB=Rim Dynamic Balance B=Bright - D=Dark - BLK SAT=black satinized

CAMPAGNOLO® SERVICE CENTER

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 quarantee 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.

TECHNICAL INFORMATION

ITALY (CENTRAL) Tel. +39-0444-225600 Fax: +39-0444-225606

Tel. +34-945-217195

Fax:+34-945-217198

FRANCE Tel. +33-477-554449

Fax: +33-477-556345

U.S.A. Tel. +1-760-9310106

Fax: +1-760-9310991

GERMANY Tel. +49-214-206953-20 Fax: +49-214-206953-15

Tel. +81-45-264-2780

Fax: +81-45-241-8030

-Campagnolo_i



SPAIN

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





Go to a Pro-Shop. They'll be able to offer you all the assistance you need.

FIND THE NEAREST STORE >

Didn't you find stores near your home? Please contact the service center in your country.

CAMPAGNOLO® SALES NETWORK

HEADQUARTERS

CAMPAGNOLO S.R.L. Via della Chimica, 4

36100 Vicenza - ITALY Tel. +39-0444-225500 Fax: +39-0444-225400 E-mail: sales@campagnolo.com

FRANCE

SPAIN

BRANCH OFFICES

CAMPAGNOLO FRANCE SAS ZA du Tissot 42530 St GENEST - LERPT Tel. +33-477-556305

Fax: +33-477-556345 E-mail: campagnolo@campagnolo.fr

ΙΔΡΔΝ

CAMPAGNOLO JAPAN LTD 65 Yoshidamachi, Naka-ku, YOKOHAMA 231-0041 Tel. +81-45-264-2780

Fax: +81-45-241-8030 E-mail: info@campagnolo.jp

UNITED STATES

TAIWAN

PRIMATEK LTD No. 1, Gongyequ 37th Rd., Xitun Dist., Taichung City 407, Taiwan R.O.C. Tel. +886-4-23506831 Fax:+886-4-23596764

BRANCH OFFICES

GERMANY

CAMPAGNOLO DEUTSCHLAND GMBH Alte Garten 62 51371 LEVERKUSEN Tel. +49-214-206953-0 Fax: +49-214-206953-15

E-mail: campagnolo@campagnolo.es

E-mail: campagnolo@campagnolo.de

CAMPAGNOLO IBERICA S.L. Avda. de Los Huetos 46. Pab. 31 - 01010 VITORIA Tel. +34-945-217195 Fax:+34-945-217198

Fax: +1-760-9310991 E-mail: info@campagnolona.com

CARLSBAD CA 92008 - U.S.A. Tel. +1-760-9310106

CAMPAGNOLO NORTH AMERICA

5431 Avenida Encinas, Suite C -

AGENT

BENELUX INTERNATIONAL CYCLE CONNECTION I.C.C. Communicatielaan 5A 4538 BV TERNEUZEN NETHERLAND Tel. + 31 (0)115 649321 Fax: + 31 (0)115 649110 E-mail: info@i-c-c.nl

Web: www.i-c-c.nl



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



Didn't you find stores near your home? Please contact the service center in your country.

FIND THE NEAREST STORE >

172 173

-lampagnolo:

CAMPAGNOLO S.R.L.

Via della Chimica, 4 36100 Vicenza - ITALY Phone: +39 0444 225500 Fax: +39 0444 225400

www.campagnolo.com

Campagnolo®, Campy™, Super Record™, Record™, Chorus™, Athena™, Potenza 11™, EPS™, Ekar™, CT™, Centaur™, Veloce™, Mirage[™], Xenon[™], MyCampy[™], MyGarage[™], MyEPS[™], MySessions[™], ESP[™], ESP[™] ACTUATION SYSTEM[™], Ultra-Shift[™], Vari-Cushion[™], No-Bulge™, OS-Fit™, Ultra-Link™, CULT™, USB™, XPSS™, MPS™, Power Torque System™, Power Torque +™, Power-Shift™, Pro-Tech™, Embrace Technology™, S2 System™, CSD™, AMS™, BE 11™, Revolution 11™, Campy Tech Lab™, 2-Way Fit™, Ultra-Fit™ Tubeless, 3Diamant™, Hyperon™, Neutron™, Proton™, Eurus™, Zonda™, Scirocco™, Vento™, Vento Asymmetric™, Bora™, Ghibli™, Pista™, Khamsin™, Khamsin Asymmetric™, Calima™, Shamal™, Bullet™, Time Trial™, Ergobrain™, Symmetric Action™, Siannal™, Butlet™, Time Intal™, Ergobraii™, Symmetric Action™, Z-shape™, M-brace™, Even-O™, Superlative™, Floating-Link-Action™, HD-Link™, HD-L™, Exa-Drive™, Ultra-Drive™, Pro-Fit™, Pro-Fit PLUS™, Differential brakes™, Threadless™, Hiddenset™, Hiddenset TTC™, TTC™, Ergopower™, BB System™, C10TM, C9TM, EDTM, UDTM, Ultra NarrowTM, Over-TorqueTM, UTTM, Ultra-Torque[™], Over-Torque[™] Technology, Ultra-Hollow[™], Skeleton[™], Quick Shift[™], QS[™], Escape[™], Infinite[™], Champ Triple[™], Race Triple[™], Comp Triple[™], HPW[™], Mega-G3[™], G3[™], Grouped Spokes[™], DPRO[™], Dual Profile™, Ultralinear-Geometry™, Ultralinear™, Differential rims™, Differential spokes™, Ultra™, Ultra Aero™, DRSC™, RDB™, Spokes Anti-Roation System™, Spoke Dynamic Balance™, AC3™, N3W™, Comp Ultra™, Comp One™, 3Diamant™, Dynamic Balance™, Full Carbon™, Multidirectional™, Unidirectional™, AC-H™, AC-S™, SC-S™, Big™, Miro™, Pro-Shop™, Tecnologia ed Emozione™, Pure Performance™, are Campagnolo Srl trademarks.

QR Code® is registered trademarks of DENSO WAWE INCORPORATED. Copyright(C) 2000-2010 DENSO WAVE INCORPORATED All right reserved

Credits:

Racing photos:

© Getty Images

© Poci's

© www.jamescheadle.com





