

Campagnolo

ENGLISH

1933 - 2008 75 YEARS OF PASSION



TRADE CATALOGUE 2008

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We were there.

Seventy-five years: a past that portrays our future



That morning of November 1927, while his hands numbed by the cold prevented him from unscrewing the wing nuts on his hub to use an easier ratio, **Tullio Campagnolo had a brainwave: redesign the nut lever** so that at least four fingers could be used to operate it.

The "automatic wing nuts" patent was registered on 8 February 1930, the first of other 135 that would follow over the years.

History allows no discounts. What we are today can only be built patiently, with modesty and perseverance. Campagnolo®'s present, and even more so its future, rests on foundations consolidated by three quarters of a century studded with innovations, ideas and cycling brainwaves.

On 11th November 1927, when Tullio Campagnolo was on his own under the first ascents of the Croce d'Aune pass, he was not afraid and did not surrender. So now, as we can count on crowds of friends, enthusiasts and admirers of Campagnolo® products along our path, nothing will stop us. It is specifically from that image from the start of the century that we wish to retrace the salient milestones in our past and present history.





1933

An alternative idea

Seventy-five years ago, in 1933, Campagnolo was founded. Soon the idea of the quick release turned out to be too constrictive for the young Campagnolo: why not redesign the entire gear? **This led to the debut of the famous "rod gear"** which marked the launch of a specific school of thought: no chain-stretcher and pulleys. Campagnolo dreamt up a completely innovative path: eliminating pulleys means reducing friction and making the system insensitive to mud. The Campagnolo® brand began to consolidate its reputation for meticulous and precise workmanship.

1940

The contribution of champions

The rod gear evolved into the Corsa 1001 version with which **Gino Bartali won the Tour de France in 1948**, and then into the Paris-Roubaix 1002 version, so-called in honour of Fausto Coppi for his victory in the homonymous race in 1950. Their respective teams, Bianchi and Legnano, also used Campagnolo® components in those years. But gear technology had arrived at a turning point: **the first derailleur with an articulated parallelogram, the Gran Sport 1012, debuted in 1950** and established the standard to which all manufacturers would soon refer.

1950

The "groupset" is born

The second half of the fifties saw the introduction of the Record™, accompanied by a set of new components: seat post, headset, pedals and crankset. While manufacturers at the time used components made by various brands, Campagnolo went against the grain by **offering a set of components made by the same manufacturer** and designed for improved interaction with one another. This was how the "groupset" concept was born.

1960

Innovate, every time

The end of the Fifties confirmed **Campagnolo's entrance into the motoring sector**. The new Bologna works would produce superlight wheels for cars and motorbikes in Elektron magnesium alloy which in a few years would become the preferred type on British roadsters and Italian, American and German custom-built cars. Campagnolo® was the first company in the world to use the technique of casting magnesium in earth that would revolutionize the use of this material.

Even **NASA made use of it**: the Elektron alloy chassis of the OSO 6 satellite, launched in 1969, used Campagnolo® castings. Some years later this commitment led the International Magnesium Association to honour Campagnolo with the **"Design and Application Award"**.



1980

The Shamal™ era

The link between cycling champions and Campagnolo® has always been very strong. In 1994 Eugeni Berzin and Miguel Indurain, respectively, won the Giro d'Italia and the Tour de France using the **Shamal™, a wheel that revolutionized the very concept of the wheel**.



Shamal - 1994

Performance and materials

The carbon fibre years were approaching. Campagnolo® selected a less conventional way to develop parts in composite material: instead of outsourcing production, the choice was made to bring the associated know-how into the company. This decision was a winning choice and allowed Campagnolo® to redevelop our components in a more modern high-performance key.

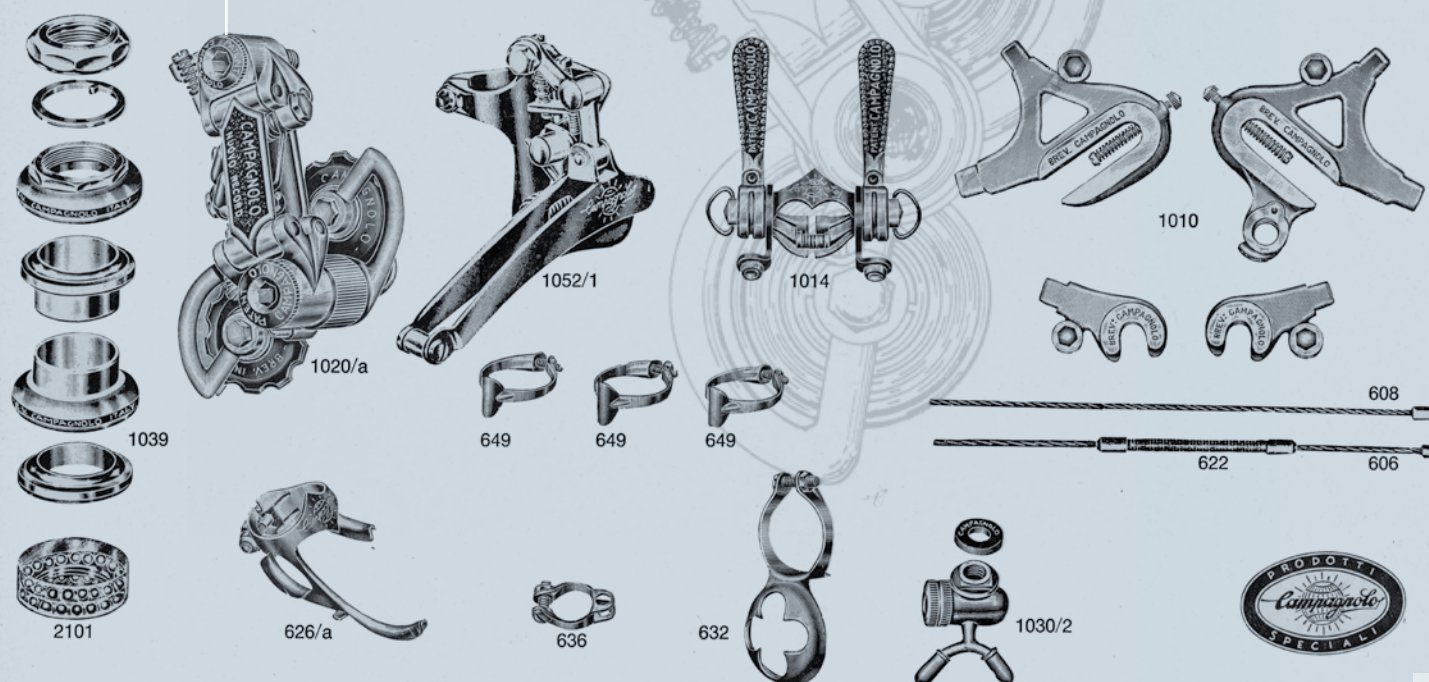
The much-admired Ergopower™ controls in carbon arrived in 1999, followed in 2003 by the Record™ cranksets and the next year by the Hyperon™ clincher wheelset, completely made of monocoque carbon fiber, hubs included. In the race towards improved gearing, Campagnolo® continued pedalling ahead of the competition **with the introduction of the first 10-speed transmission for the Record™ and Chorus™ groupsets**.

2000

The present and the future

The future is upon us, and various spoking techniques are being studied: **the G3 geometry comes into being**. In 2006 the classic ISO truncated cone coupling gave way to a new standard: **Ultra-Torque™**. The new crankset makes it possible to drastically reduce lateral dimensions as the coupling between the two parts is now located in the middle of the axle.

In the meantime the company continues to look ahead. The electronic gear project is being developed and has already been tested successfully by some professional riders in the grand tours and the Pro Tour circuit.



1

Sprocket set

The teeth have been specially machined to interface perfectly with Campagnolo® chain geometry and to produce perfect ratios; both when upshifting and downshifting, even when applying force to the chain.



2

Front derailleur

The job of the front derailleur is to shift the chain from one chainring to another. The front derailleur, chain and chainrings must work as a unified and cohesive unit to facilitate the athlete under pressure. This is the only way that you obtain fast and precise displacement of the chain.



6

Rear derailleur

A complex system of springs that are balanced together means that the action of the control, transmitted by the cable, is matched by perfect shifting of the rear-derailleur parallelogram and positions the chain rapidly and silently on the selected sprocket.



4

Crankset

The chainrings are machined with Ultra-Drive™ geometry – also used for the chain and sprockets – with special operations and pins that couple perfectly with Campagnolo® chains.



5

Chain

Geometries and dimensions have been studied to couple perfectly with the chainrings and the sprockets in order to obtain fast, precise and quiet shifting, as well as better transmission of the rider's power.



3

Ergopower™ controls

The cable-housing insert shifts by one calibrated angular portion and permits correct displacement of the rear derailleur parallelogram. It is only with Ergopower™ controls that you obtain precise and smooth shifting, with the possibility of shifting up to five sprockets in a single stroke.



What is the advantage of an integrated Campagnolo® groupset?

Every rider in a team performs his specific role with dedicated professionalism in an effort to achieve a team victory. It is with this same understanding why every Campagnolo® groupset has been designed so that each component expresses its maximum potential by integrating perfectly with the other components.

Every single component is realized to excel, but it is the perfection of the whole that guarantees the result. Materials, dimensions and design: nothing is left to chance. It is only in this way that you get a groupset of components with superior performance: a Campagnolo® groupset.

GROUPSETS

Record™	12	groupset
	14	features/ benefits
	18	specifications
Chorus™	20	groupset
	22	features/ benefits
	26	specifications
Centaur™	28	groupset
	30	features/ benefits
	32	specifications
Veloce™	34	groupset
	38	features/ benefits
	40	specifications
Mirage™	42	groupset
	44	features/ benefits
	46	specifications
Xenon™	48	groupset
	50	features/ benefits
	52	specifications
Record™ Pista™	54	groupset
	55	specifications
TimeTrial™	56	groupset
	57	specifications
Triple	58	groupset
	60	specifications

TRIA INTEGRATI TORQUE

ERGOPOWER

FRENI SKELETON

LEGGERI

RECORD™



This is the first choice of those looking for the maximum performance and reliability of their equipment, whether professional or amateur. It constitutes the world benchmark in terms of lightness, as it is decisively lighter overall than any other groupset on the market.



standard



compact



L. 13,5
18,5
24,0

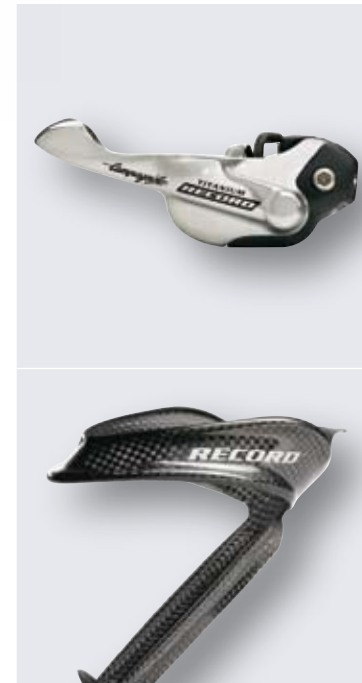
front

rear



short

medium



Ø 27,2 / 250

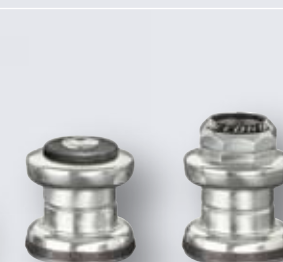
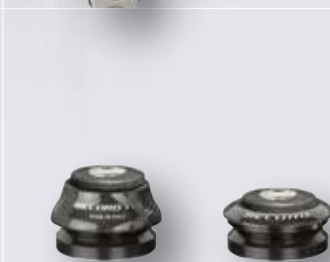


new



Ø 32
Ø 35






new









titanium



COMPONENT	FEATURES	BENEFITS
<div>RECORD™ 10s rear derailleur</div> 	forged aluminium bodies	➤ weight savings and long fatigue life
	titanium tightening bolt and cage bolt	➤ weight savings, corrosion-proof
	carbon outer plate	➤ light, long fatigue life, corrosion-proof
	skeletonized upper body	➤ greater rigidity with same weight
	metal-carbon cage	➤ light, long fatigue life, corrosion-proof
	rollers on bushings	➤ long life, low friction
	rollers in special rubber	➤ damping of vibrations
<div>RECORD™ front derailleur</div> 	Z-shape™ inner plate	➤ greater rigidity, greater thrust on the fork
	M-brace™ body	➤ more rigid system, better shifting
	standardised Standard/Compact fork	➤ versatility
	Even-O™ clamp	➤ more even pressure on the frame
	aluminium-composite fork	➤ weight savings
	antifriction treatment	➤ long life
<div>RECORD™ QS™ Ergopower™ controls</div> 	carbon brake lever	➤ weight savings, reliability, rigidity, mechanical strength, corrosion-proof, long fatigue life
	body in technopolymer with long carbon fibre	➤ mechanical strength and corrosion-proof, maximum weight savings, rigidity, minimum ageing
	lightened internal mechanism on bearings	➤ operating weight savings, minimum friction, minimum wear, low weight
	silicone hood	➤ anallergic, elastic, memory of form, stability with UV and high temperatures
	brake opening control in the brake lever	➤ greater ergonomics, fast operation
<div>RECORD™ front hub</div> 	oversize body	➤ greater rigidity, weight savings
	adjustable bearings	➤ more ball bearings for same size, longer life, adjustable/eliminable play, each component individually replaceable, low friction, lighter, ceramic-ready
	oversize light-alloy axle	➤ weight savings and rigidity
	release with light-alloy housings and lever	➤ weight savings
	Symmetric Action™ lever on the release	➤ even and effective operation
<div>RECORD™ rear hub</div> 	oversize body	➤ greater rigidity, weight savings
	adjustable bearings	➤ more ball bearings for same size, longer life, adjustable/eliminable play, each component individually replaceable, low friction, lighter, ceramic-ready
	oversize light-alloy axle	➤ weight savings and rigidity
	release with light-alloy housings and lever	➤ weight savings
	Symmetric Action™ lever on the release	➤ even and effective operation
	monolithic freewheel body	➤ weight savings

COMPONENT	FEATURES	BENEFITS
<div>RECORD™ UD™ 10s sprockets</div> 	steel-titanium version	➤ excellent compromise between weight savings and cost
	titanium version	➤ maximum weight savings
	aluminium carrier for the largest sprockets	➤ precision and rigidity, weight savings
	sprocket synchronization	➤ fast precise shifting, less stress for the chain
	Ultra-Drive™ machining of the teeth	➤ chain passage optimization
	nickel-chrome surface treatments on steel	➤ longer life, lower wear
<div>RECORD™ Ultra-Narrow™ chain</div> 	width 5.9mm	➤ quiet operation, less interference with adjacent sprockets and chainrings, high-performance shifting
	HD-Link™	➤ extremely high retention force
	lightened links	➤ weight savings
	antifriction treatment	➤ smoothness, long life
	hollow pins	➤ weight savings
<div>RECORD™ Ultra-Torque™ Carbon crankset</div> 	full-carbon unidirectional-multidirectional cranks	➤ rigidity, weight savings and long fatigue life
	hollow cranks (Ultra-Hollow™ Structure)	➤ lower weight with same rigidity and life
	light-alloy high-guage chainrings with antifriction treatment	➤ weight savings, rigidity, resistance to wear
	light-alloy nuts and bolts	➤ greater weight savings
	8 pins on the large chainring	➤ faster shifting
	Ultra-Torque™ bottom bracket	➤ (see specific window)
<div>Ultra-Torque™ System</div> 	Hirth-type joint	➤ self-centering, self-aligning, extreme strength
	15mm locking bolt with preloading Belleville spring	➤ great strength, great security, preload the joint with 1300lb/600kg, self-locking
	variable section semi-axes	➤ great weight savings, strength where necessary
	great interface diameter with the crank	➤ makes it possible to make a thinner crank, with less lateral bulk/better Q-factor
	bearings on semi-axes	➤ simple fast maintenance, fast and simple changing
	triple gaskets	➤ good insulation with reduced friction
	preloading spring on the bearings	➤ elimination of lateral bearing movement
	crescent spring for RH bearing	➤ prevention of crankset movements compared with frame
	cups with surface treatment	➤ reduced wear and noise
<div>RECORD™ Pro-Fit Plus™ pedals</div> 	compact	➤ weight savings, excellent clearance in bends
	broad support base	➤ comfortable
	sealed cartridge axle	➤ zero maintenance
	release adjustment display	➤ simple adjustment
	titanium axle	➤ weight savings

COMPONENT	FEATURES	BENEFITS
RECORD™ Skeleton™ brakes 	forged arms	➤ stronger, maximum life cycle
	skeletonized arms	➤ greater weight savings with same life
	differentiated front-rear	➤ powerful front, light and modulable rear
	orbital pad adjustment	➤ optimum interface with the rim, maximum braking performance
	titanium and light-alloy screws and nuts	➤ weight savings
	ball bearings	➤ long life, low friction
	special pad compound	➤ excellent balance between performance on dry and wet surface, modulable braking and long pad life
RECORD™ Carbon seat post 	differentiated composite tube	➤ weight savings and strength
	forged aluminium head	➤ weight savings and security
	forged aluminium bottom bracket	➤ strength and long fatigue life
	composite top bracket	➤ weight savings and long fatigue life
	special steel screw with rolled thread	➤ strength and long fatigue life
RECORD™ traditional headset 	light alloy with steel inserts	➤ light and strong
	cup and cone system	➤ easy cleaning and maintenance
RECORD™ Threadless™ headset 	carbon tension plate	➤ weight savings, corrosion-proof
	light alloy tension bolt	➤ weight savings, corrosion-proof
	cup and cone system	➤ easy cleaning and maintenance
	Campagnolo® patented centering system	➤ weight savings, does not damage the fork
	lubrication hole	➤ fast lubrication
	light alloy with steel inserts	➤ weight savings and strength
RECORD™ Hiddenset™ headset 	carbon tension plate	➤ weight savings, corrosion-proof
	carbon top cup	➤ weight savings, corrosion-proof
	light alloy tension bolt	➤ weight savings, corrosion-proof
	cup and cone system	➤ easy cleaning and maintenance
	Campagnolo® patented centering system	➤ weight savings, does not damage the fork
RECORD™ bottle cage 	carbon monocoque structure	➤ weight savings
RECORD™ sub-shell plate	technopolymer with PTFE	➤ self-lubricating, minimum friction



RECORD™ 2008

COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
RECORD™ 10s rear derailleur	short cage	upper to lower pulley-axle: 55 mm composite outer plate - composite outer cage - Titanium hanger and pivot bolt	184
	medium cage	upper to lower pulley-axle: 72,5 mm composite outer plate - composite outer cage - Titanium hanger and pivot bolt	193
RECORD™ QS™ STD + CT™ 9s/10s front derailleur	braze-on / clip-on: Ø 32, 35 mm	for double standard and CT™ crankset - capacity 16 – max. chainring 55 – min. chainring 34 - composite and aluminum fork - M-brace™ body - Even-O™ clamp - Z-shape™ lower cage	75
RECORD™ QS™ 10s Ergopower™ shifters		for caliper brakes - double/triple crankset compatible – composite body and levers – ball bearings light alloy hardware - ErgoBrain10™ computer ready	324
RECORD™ front hub	32, 36 holes	light alloy axle and body – adjustable bearings – quick-release with aluminium lock nuts - O.L.D. 100 mm	116
RECORD™ rear hub	32, 36 holes	9s/10s - light alloy body, axle and one-piece freewheel body – adjustable bearings – quick-release with aluminium lock nuts - lockring thread 27x1 - O.L.D. 130 mm	231
RECORD™ UD™ 10s sprockets - steel+titanium	11-21, 11-23, 11-25, 12-23, 12-25, 13-26, 13-29	Ultra-Drive™ - nickel-chromed finish for steel sprockets - light alloy carrier - supplied without lockring (except for 11-21, 11-23 and 11-25)	188
RECORD™ UD™ 10s sprockets - titanium	11-23, 12-25, 13-26	Ultra-Drive™ - light alloy carrier - supplied without lockring (except for 11-23)	156
RECORD™ Ultra Narrow™ chain		10s - width 5,9 mm - Ni-PTFE Finish - 114 links - Ultra-Drive™ - HD-Link™ for Ultra Narrow™ chain - lightened links - hollow pins	2,24/ link **
RECORD™ Ultra-Torque™ Carbon 10s crankset	170, 172.5, 175, 177.5,180 mm 39-52, 39-53	Ultra-Hollow™ composite crankarms - light alloy fixing bolts and nuts - Ultra-Drive™ EPS™ chainrings with antifriction treatment - integrated ULTRA-TORQUE™ semi-axles - requires ULTRA-TORQUE™ BB overboard cups	643
RECORD™ Ultra-Torque™ CT™ Carbon 10s crankset	170, 172.5, 175 mm 34-48, 34-50, 36-50	Ultra-Hollow™ composite crankarms - light alloy fixing bolts and nuts - Ultra-Drive™ EPS™ chainrings with antifriction treatment - integrated ULTRA-TORQUE™ semi-axles - requires ULTRA-TORQUE™ BB overboard cups	643
RECORD™ Ultra-Torque™ BB overboard cups	ITA, ENG	aluminium	49
RECORD™ Pro-Fit Plus™ pedals		Titanium axle -light alloy body - with floating (standard) or fixed (optional) cleats - composite axle fixing nuts - polished aluminium finish - left axle compatible with the ErgoBrain™ magnet	266
RECORD™ D Skeleton™ brakes	front fixing bolt: 13,5 - 18,5 - 24 mm	brake-pad height adjustment ratio: 40÷50 mm (measured from brake fixing-bolt to brake-shoe-nut) - ball bearings - light alloy and titanium hardware - brake pads orbital adjustment - lightened rear brake	279

COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
RECORD™ Carbon seat post	27,2 / 250 31,6 / 350 32,4 / 350	composite tube - clamp for seat tube - knurling pitch: 0.5 mm - composite upper clamp	185
RECORD™ headset		BC 1"x24tpi - height 36.5 mm	104
RECORD™ Threadless™ headset	1", 1-1/8"	for unthreaded fork tube - height 24.5 mm - composite cover and light alloy fixing screw - lubrication port	110
RECORD™ Hiddenset™ headset	1-1/8", 1-1/8" TTC™	internal headset for unthreaded fork tube - version 1-1/8": height 5.9 mm, version 1-1/8" TTC™: height 15.9 mm - patent pending system - composite and light alloy fixing screw and cap	73
RECORD™ water-bottle carrier		monocoque carbon, supplied with water-bottle	18
RECORD™ cable guide plate		to fit under bottom bracket shell - composite, suitable to oversize shells	5



* The nominal weight refers to the lighter specification among the available options. The weight of the hubs does not include the quick-release. The nominal weight does not take account of the sometimes considerable quantities of grease used in the assembly of the products.
** Example: 2,24 x 108 links = 242 g

CHORUS™



This is the choice of high-level athletes. It shares its genetic makeup with Record™ and this designates it for competition as does its level of reliability, life and construction tolerances, even if they are obtained through the use of a few less carbon composite parts.



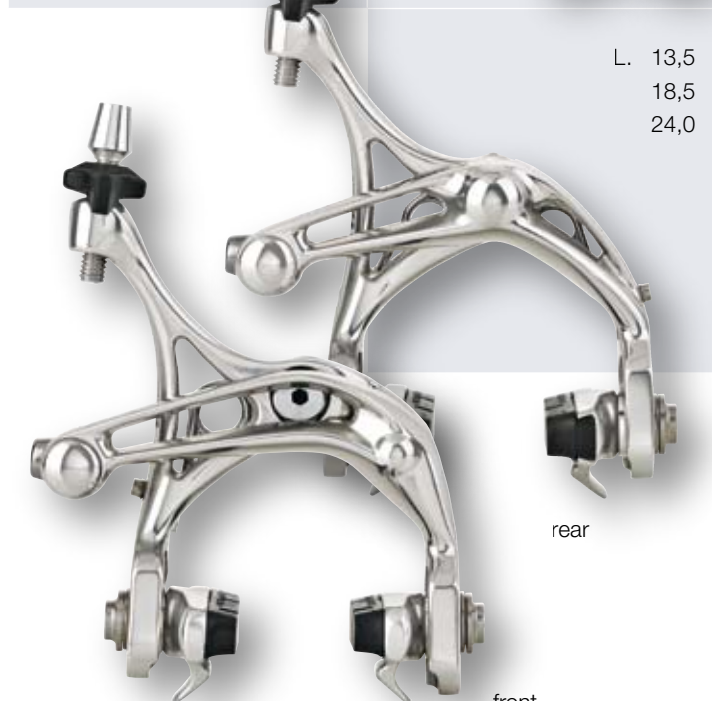
standard



compact



L. 13,5
18,5
24,0



rear

front



short

medium



Flat Bar



new

new

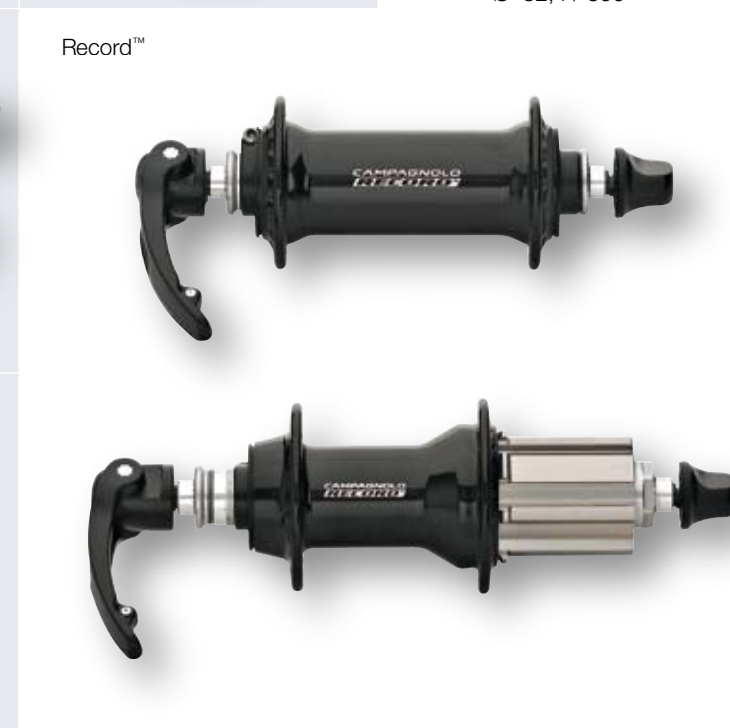


Ø 32
Ø 35








Ø 27,2 / 250







Ø 31,6 / 350
Ø 32,4 / 350



Record™

COMPONENT	FEATURES	BENEFITS
<div>CHORUS™ rear derailleur</div> 	forged aluminium bodies	➤ weight savings and long fatigue life
	carbon outer plate	➤ light, long fatigue life, corrosion-proof
	skeletonized upper body	➤ greater rigidity with same weight
	rollers on bushings	➤ long life, low friction
	rollers in special rubber	➤ damping of vibrations
<div>CHORUS™ front derailleur</div> 	Z-shape™ inner plate	➤ greater rigidity, greater thrust on the fork
	M-brace™ body	➤ more rigid system, better shifting
	standardised Standard/Compact fork	➤ versatility
	Even-O™ clamp	➤ more even pressure on the frame
	light-alloy fork	➤ weight savings
<div>CHORUS™ QS™ Ergopower™ controls</div> 	antifriction treatment	➤ long life
	carbon brake lever	➤ weight savings, reliability, rigidity, mechanical strength, corrosion-proof, long fatigue life
	body in technopolymer with long carbon fibre	➤ mechanical strength and corrosion-proof, maximum weight savings, rigidity, minimum ageing
	internal mechanism on bearings	➤ operating weight savings, minimum friction, minimum wear
	silicone hood	➤ anallergic, elastic, memory of form, stability with UV and high temperatures
<div>CHORUS™ FB Ergopower™ controls</div> 	brake opening control in the brake lever	➤ enhanced ergonomics
	Carbon brake lever	➤ weight savings, reliability, rigidity, mechanical strength and corrosion-proof, long fatigue life
	upshift up to three sprockets	➤ fast shifting
	downshift up to three sprockets	➤ fast shifting
	rolling mechanism	➤ low friction-light operation, low maintenance, great reliability
	adjustable brake lever distance	➤ maximum ergonomics and security with hands of various sizes
	display of ratio used	➤ fast checking without distraction
<div>RECORD™ front hub</div> 	indexed left-hand control	➤ fast and precise shifting
	oversize body	➤ greater rigidity, weight savings
	adjustable bearings	➤ more ball bearings for the same dimensions, longer life, adjustable/play eliminable, each component individually replaceable, low friction, lighter, ceramic-ready
	oversize light-alloy axle	➤ weight savings, rigidity
	locking with light-alloy housing and lever	➤ weight savings
	Symmetric Action™ lever on the release	➤ even and effective operation

COMPONENT	FEATURES	BENEFITS
<div>RECORD™ rear hub</div> 	oversize body	➤ greater rigidity, weight savings
	adjustable bearings	➤ more ball bearings for the same dimensions, longer life, adjustable/play eliminable, each component individually replaceable, low friction, lighter, ceramic-ready
	oversize light-alloy axle	➤ weight savings, rigidity
	locking with light-alloy housing and lever	➤ weight savings
	Symmetric Action™ lever on the release	➤ even and effective operation
<div>CHORUS™ UD™ 10s sprockets</div> 	monolithic freewheel body	➤ weight savings
	aluminium carrier for the largest sprockets	➤ precision and rigidity, weight savings
	sprocket synchronization	➤ fast and precise shifting, lower chain stress
	Ultra-Drive™ machining of the teeth	➤ chain passage optimization
<div>CHORUS™ Ultra-Narrow™ chain</div> 	nickel-chrome surface treatments	➤ longer life, lower wear
	width 5.9 mm	➤ quiet operation, less interference with adjacent sprockets and chainrings, high-performance shifting
	HD-Link™	➤ extremely high retention force
	lightened links	➤ weight savings
<div>CHORUS™ Ultra-Torque™ Carbon crankset</div> 	antifriction treatment	➤ smoothness, long life
	full-carbon unidirectional-multidirectional cranks	➤ rigidity, weight savings, longer fatigue life
	light-alloy high-guage chainrings with antifriction treatment	➤ weight savings, rigidity, resistance to wear
	light-alloy nuts and bolts	➤ greater weight savings
<div>Ultra-Torque™ System</div> 	8 pins on the large chainring	➤ faster shifting
	Ultra-Torque™ bottom bracket	➤ (see specific window)
	Hirth-type joint	➤ self-centering, self-aligning, extreme strength
	15 mm locking bolt with preloading Belleville spring	➤ great strength, great security, preload the joint with 1300lb/ 600kg, self-locking
	variable section semi-axes	➤ great weight savings, strength where necessary
	great interface diameter with the crank	➤ makes it possible to make a thinner crank, with less lateral bulk/better Q-factor
	bearings on semi-axes	➤ simple fast maintenance, fast and simple changing
	triple gaskets	➤ good insulation with reduced friction
	preloading spring on the bearings	➤ elimination of lateral bearing movement
	crescent spring for RH bearing	➤ prevention of crankset movements compared with frame
	cups with surface treatment	➤ reduced wear and noise

COMPONENT	FEATURES	BENEFITS
<div>CHORUS™ Pro-Fit Plus™ pedals</div> 	compact	➤ weight savings, excellent clearance in bends
	broad support base	➤ comfortable
	sealed cartridge axle	➤ zero maintenance
	release adjustment display	➤ handy adjustment
<div>CHORUS™ Skeleton™ brakes</div> 	forged arms	➤ stronger, maximum life cycle
	skeletonized arms	➤ greater weight savings with same life
	orbital pad adjustment	➤ optimum interface with the rim, maximum braking performance
	ball bearings	➤ long life, low friction
	special pad compound	➤ excellent balance between performance on dry and wet surface, moduable braking and long pad life
	differentiated front-rear	➤ powerful front, light and moduable rear
<div>CHORUS™ Carbon seat post</div> 	differentiated composite tube	➤ weight savings and strength
	forged aluminium head	➤ weight savings and security
	forged aluminium brackets	➤ weight savings and long fatigue life
	special steel screw with rolled thread	➤ strength and long fatigue life
<div>CHORUS™ Threadless™ headset</div> 	cup and cone system	➤ easy cleaning and maintenance
	Campagnolo® patented centering system	➤ weight savings, does not damage the fork
	light alloy with steel inserts	➤ weight savings and strength
<div>CHORUS™ Hiddenset™ headset</div> 	cup and cone system	➤ easy cleaning and maintenance
	Campagnolo® patented centering system	➤ weight savings, does not damage the fork
<div>CHORUS™ bottle cage</div> 	composite body	➤ weight savings, corrosion-proof
	carbon band	➤ weight savings, corrosion-proof
RECORD™ sub-shell plate	technopolymer with PTFE	➤ self-lubricating, minimum friction

CHORUS™ 2008

COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
CHORUS™ 10s rear derailleur	short cage	upper to lower pulley-axle: 55 mm composite outer plate	202
	medium cage	upper to lower pulley-axle: 72,5 mm composite outer plate	205
CHORUS™ QS™ STD + CT™ 9s/10s front derailleur	braze-on / clip-on: Ø 32, 35 mm	for double standard and CT™ crankset - capacity 16 – max. chainring 55 - min. chainring 34 - light alloy fork with antifriction treatment - M-brace™ body - Even-O™ clamp - Z-shape™ lower cage	76
CHORUS™ QS™ 10s Ergopower™ shifters		for caliper brakes - double/triple crankset compatible – composite body – composite levers - light alloy hardware - ErgoBrain10™ computer ready	348
CHORUS™ 10s Ergopower™ FB shifters		for caliper brakes - double/triple crankset compatible – alu-composite body – aluminium brake lever - light alloy small parts - requires QS™ front derailleur	320
RECORD™ front hub	32, 36 holes	light alloy axle and body – adjustable bearings – quick-release with aluminium lock nuts - O.L.D. 100 mm	116
RECORD™ rear hub	32, 36 holes	9s/10s - light alloy body, axle and one-piece freewheel body – adjustable bearings – quick-release with aluminium lock nuts - locking thread 27x1 - O.L.D. 130 mm	231
CHORUS™ UD™ 10s sprockets - steel	11-23, 11-25, 12-25, 13-26, 13-29	Ultra-Drive™ - nickel-chromed finish - light alloy carrier - supplied without lockring (except for 11-23 and 11-25)	220
CHORUS™ Ultra Narrow™ chain		10s - width 5,9 mm - Ni-PTFE Finish - 114 links - Ultra-Drive™ - HD-Link™ for Ultra Narrow™ chain - lightened links	2,36/ link **
CHORUS™ Ultra-Torque™ Carbon 10s crankset	170, 172.5, 175 mm 39-52, 39-53	composite crankarms - Ultra-Drive™ EPS™ chainrings - integrated ULTRA-TORQUE™ semi-axles - requires ULTRA-TORQUE™ BB overboard cups	679
CHORUS™ Ultra-Torque™ CT™ Carbon 10s crankset	170, 172.5, 175 mm 34-48, 34-50, 36-50	composite crankarms - Ultra-Drive™ EPS™ chainrings - integrated ULTRA-TORQUE™ semi-axles - requires ULTRA-TORQUE™ BB overboard cups	679
RECORD™ Ultra-Torque™ BB overboard cups	ITA, ENG	aluminium	49
CHORUS™ Pro-Fit Plus™ pedals		steel axle -light alloy body - with floating (standard) or fixed (optional) cleats - composite axle fixing nuts - polished aluminium finish - left axle compatible with the ErgoBrain™ magnet	325
CHORUS™ D Skeleton™ brakes	front fixing bolt: 13,5 - 18,5 - 24 mm	brake-pad height adjustment ratio:40÷50 mm (measured from brake fixing-bolt to brake-shoe-nut) - brake pads orbital adjustment-lightened rear brake	326
CHORUS™ Carbon seat post	27,2 / 250 31,6 / 350 32,4 / 350	composite tube - clamp for seat tube - knurling pitch: 0.5 mm	195

COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
CHORUS™ Threadless™ headset		1" - for unthreaded fork tube - height 24.5 mm - patent pending system steel and light alloy fixing screw	117
CHORUS™ Hiddenset™ headset	1-1/8", 1-1/8" TTC™	internal headset for unthreaded fork tube - version 1-1/8": height 5.9 mm, version 1-1/8" TTC™: height 15,9 mm - patent pending system - steel and light alloy fixing screw light alloy cap - 1-1/8" TTC™ without bolt washer and nut set	82
CHORUS™ water-bottle carrier		carbon and composite, supplied with water-bottle	29
RECORD™ cable guide plate		to fit under bottom bracket shell - composite, suitable to oversize shells	5



* The nominal weight refers to the lighter specification among the available options. The weight of the hubs does not include the quick-release. The nominal weight does not take account of the sometimes considerable quantities of grease used in the assembly of the products.
** Example: 2,36 x 108 links = 255 g

CENTAUR™



The new Ultra-Torque™ system for the cranksets is also available this year in the Carbon version; Skeleton™ architecture for the brakes; carbon for the outer plate of the rear derailleur, the bottle cage and the Ergopower™ controls: a class option at a competitive price.

new



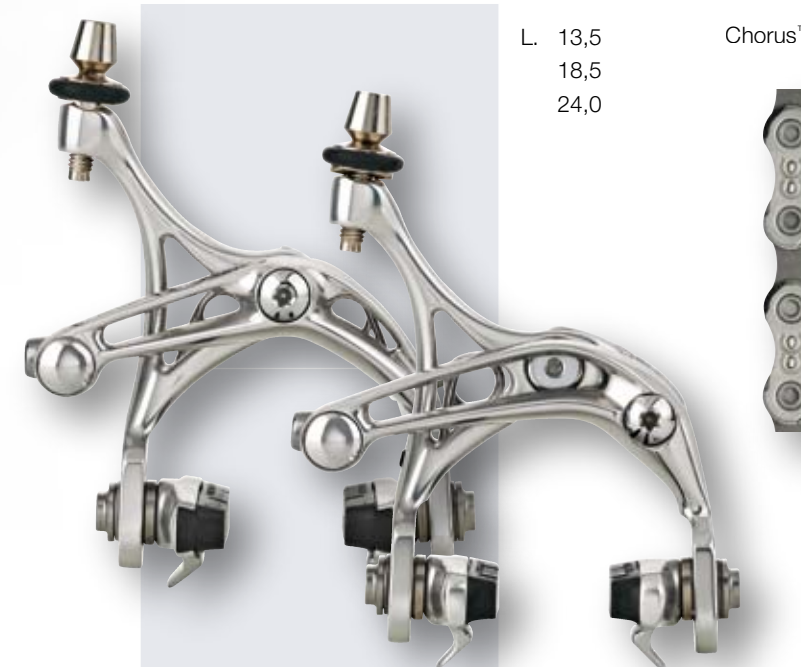
new



standard



compact



L. 13,5
18,5
24,0

Chorus™



rear

front

Ø 32
Ø 35



new



new









short

medium



COMPONENT	FEATURES	BENEFITS
<div>CENTAUR™ 10s rear derailleur</div> 	aluminium bodies	➤ mechanical strength, weight savings, rigidity, minimum ageing
	carbon outer plate	➤ light, long fatigue life, corrosion-proof
	rollers on bushings	➤ long life, low friction
	rollers in special rubber	➤ damping of vibrations
<div>CENTAUR™ front derailleur</div> 	standardised Standard/Compact fork	➤ versatility
	chrome-plated nickel fork	➤ long life and low wear
	surface treatments	➤ protection from rust
<div>CENTAUR™ QS™ Ergopower™ controls</div> 	carbon brake lever	➤ weight savings, reliability, rigidity, mechanical strength, corrosion-proof, long fatigue life
	body made of technopolymer with long glass fibre	➤ mechanical strength and corrosion-proof, weight savings, rigidity, minimum ageing
	internal Escape™ mechanism	➤ minimum wear, minimum maintenance, weight savings, precision, indexing on the front derailleur
	silicone hood	➤ anallergic, elastic, memory of form, stability with UV and high temperatures
	brake opening control in the brake lever	➤ enhanced ergonomics
<div>CENTAUR™ front hub</div> 	sealed bearings	➤ low maintenance
	oversize body	➤ greater rigidity, weight savings
	Symmetric Action™ lever on the release	➤ even and effective operation
	aluminium release lever housing	➤ weight savings
<div>CENTAUR™ rear hub</div> 	sealed bearings	➤ low maintenance
	monolithic freewheel body	➤ weight savings
	oversize body	➤ greater rigidity, weight savings
	Symmetric Action™ lever on the release	➤ even and effective operation
	higher release lever housing	➤ better interface with the frames
	aluminium release lever housing	➤ weight savings
<div>CENTAUR™ UD™ 10s sprockets</div> 	aluminium supports and “macro” spacers	➤ precision and rigidity, weight savings
	sprocket synchronization	➤ fast precise shifting, less stress for the chain
	Ultra-Drive™ machining of the teeth	➤ chain passage optimization
	nickel-chrome surface treatments	➤ longer life, lower wear
<div>CENTAUR™ Ultra-Narrow™ chain</div> 	width 5.9 mm	➤ quiet operation, less interference with adjacent sprockets and chainrings, high-performance shifting
	HD-Link™	➤ extremely high retention force
	lightened links	➤ weight savings
	antifriction treatment	➤ smoothness, long life

COMPONENT	FEATURES	BENEFITS
<div>CENTAUR™ Ultra-Torque™ crankset</div> 	forged aluminium cranks	➤ excellent mechanical features, longer fatigue life
	light-alloy high-thickness chainrings	➤ rigidity, resistance to wear
	pedal shouldershoulder tapered insert	➤ longer fatigue life
	rolled pedal thread	➤ longer fatigue life
	8 pins on the large chainring	➤ faster shifting
	Ultra-Torque™ bottom bracket	➤ (see specific window)
<div>CENTAUR™ Ultra-Torque™ Carbon crankset</div> 	full-carbon unidirectional-multidirectional cranks	➤ rigidity, weight savings, longer fatigue life
	light-alloy sheared-drawn chainrings with antifriction treatment	➤ rigidity, rigidity, resistance to wear
	8 pins on the large chainring	➤ faster shifting
	Ultra-Torque™ bottom bracket	➤ (see specific window)
<div>Ultra-Torque™ System</div> 	Hirth-type joint	➤ self-centering, self-aligning, extreme strength
	15 mm locking bolt with preloading Belleville spring	➤ great strength, great security, preload the joint with 1300lb/600kg, self-locking
	variable section semi-axes	➤ great weight savings, strength where necessary
	great interface diameter with the crank	➤ makes it possible to make a thinner crank, with less lateral bulk/better Q-factor
	bearings on semi-axes	➤ simple fast maintenance, fast and simple changing
	triple gaskets	➤ good insulation with reduced friction
	preloading spring on the bearings	➤ elimination of lateral bearing movement
	crescent spring for RH bearing	➤ prevention of crankset movements compared with frame
	cups with surface treatment	➤ reduced wear and noise
<div>CENTAUR™ Skeleton™ brakes</div> 	forged arms	➤ stronger, maximum life cycle
	skeletonized arms	➤ greater weight savings with same rigidity
	special pad compound	➤ excellent balance between performance on dry and wet surface, moduable braking and long pad life
	differentiated front-rear	➤ powerful front, light and moduable rear
	orbital pad adjustment	➤ optimum interface with the rim, maximum braking performance
<div>CENTAUR™ Hiddenset headset</div> 	cup and cone system	➤ easy cleaning and maintenance
	Campagnolo® patented centering system	➤ weight savings, does not damage the fork
	standardised external dimensions	➤ forks from 1” to 1-1/8” on the same frame
<div>CENTAUR™ bottle cage</div> 	composite body	➤ weight savings, corrosion-proof
	carbon band	➤ weight savings, corrosion-proof
<div>RECORD™ sub-shell plate</div>	technopolymer with PTFE	➤ self-lubricating, minimum friction

CENTAUR™ 2008

COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
CENTAUR™ 10s rear derailleur	short cage	upper to lower pulley-axe: 55 mm composite outer plate	227
	medium cage	upper to lower pulley-axe: 72,5 mm composite outer plate	232
CENTAUR™ STD + CT™ 9s/10s front derailleur	braze-on / clip-on: Ø 32, 35 mm	for double standard and CT™ crankset - capacity 16 – max. chainring 55 - min. chainring 34 - antifriction insert	91
CENTAUR™ QS™ 10s Ergopower™ shifters		for caliper brakes - double/triple crankset compatible – composite body - ESCAPE™ mechanism - not compatible with ErgoBrain™	334
CENTAUR™ front hub	32, 36 holes	high quality bearings - O.L.D. 100 mm	169
CENTAUR™ rear hub	32, 36 holes	9s/10s - one-piece light alloy freewheel body – high quality bearings - lockring thread 27x1 - O.L.D. 130 mm	312
CENTAUR™ UD™ 10s sprockets - steel	11-23, 11-25, 12-25, 13-26, 13-29	Ultra-Drive™ - nickel-chromed finish - light alloy carrier - “macro” spacers - supplied without lockring (except for 11-23 and 11-25)	233
CHORUS™ Ultra Narrow™ chain		10s - width 5,9 mm - Ni-PTFE Finish - 114 links - Ultra-Drive™ - HD-Link™ for Ultra Narrow™ chain - lightened links	2,36/ link **
CENTAUR™ Ultra-Torque™ 10s crankset	170, 172.5, 175 mm	39-53 - Ultra-Drive™ chainrings - integrated ULTRA-TORQUE™ semi-axles - requires ULTRA-TORQUE™ BB overboard cups	828
CENTAUR™ Ultra-Torque™ Carbon 10s crankset	170, 172.5, 175 mm	39-53 - composite crankarms - Ultra-Drive™ chainrings - integrated ULTRA-TORQUE™ semi-axles - requires ULTRA-TORQUE™ BB overboard cups	707
CENTAUR™ Ultra-Torque™ CT™ crankset	170, 172.5, 175 mm	34-50 - Ultra-Drive™ chainrings - integrated ULTRA-TORQUE™ semi-axles - requires ULTRA-TORQUE™ BB overboard cups	828
CENTAUR™ Ultra-Torque™ CT™ Carbon crankset	170, 172.5, 175 mm	34-50 - composite crankarms - Ultra-Drive™ chainrings - integrated ULTRA-TORQUE™ semi-axles - requires ULTRA-TORQUE™ BB overboard cups	693
RECORD™ Ultra-Torque™ BB overboard cups	ITA, ENG	aluminium	49
CENTAUR™ D Skeleton™ brakes	front fixing bolt: 13,5 - 18,5 - 24 mm	brake-pad height adjustment ratio: 40÷50 mm (measured from brake fixing-bolt to brake-shoe-nut) - brake pads orbital adjustment - lightened rear brake	334
CENTAUR™ seat post		Ø 27.2 mm - L. 250 mm - light alloy tube	221
CENTAUR™ Hiddenset™ headset		1-1/8" - internal headset for unthreaded fork tube - height 5.9 mm - patent pending system - composite cap - without bolt washer and nut set	56
CENTAUR™ water bottle carrier		carbon and composite, supplied with water-bottle	35
RECORD™ cable guide plate		to fit under bottom bracket shell - composite, suitable to oversize shells	5

* The nominal weight refers to the lighter specification among the available options. The weight of the hubs does not include the quick-release.
The nominal weight does not take account of the sometimes considerable quantities of grease used in the assembly of the products

** Example: 2,36 x 108 links = 255 g



VELOCE™ SILVER



Skeleton™ brake bodies, Ergopower™ controls with composite or aluminium levers – of both the Racing and Flat-bar types – hubs with oversize bodies, the new Ultra-Drive™ sprocket set and Ultra-Torque™ cranksets.



standard

compact



short

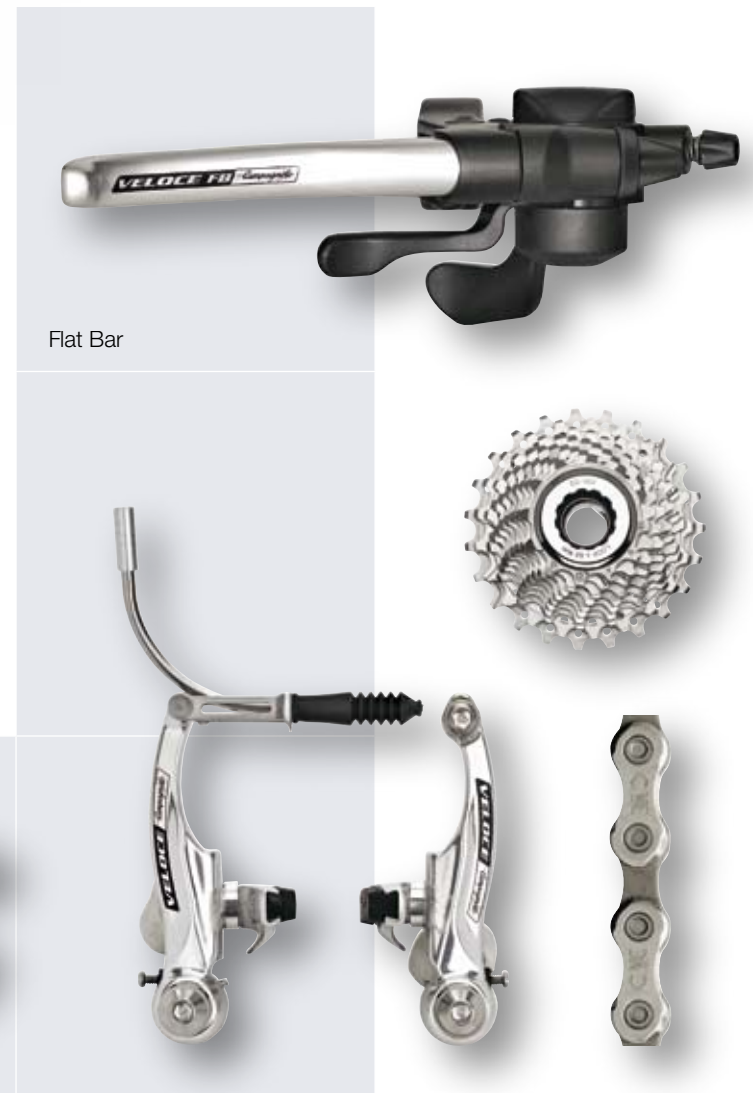
medium



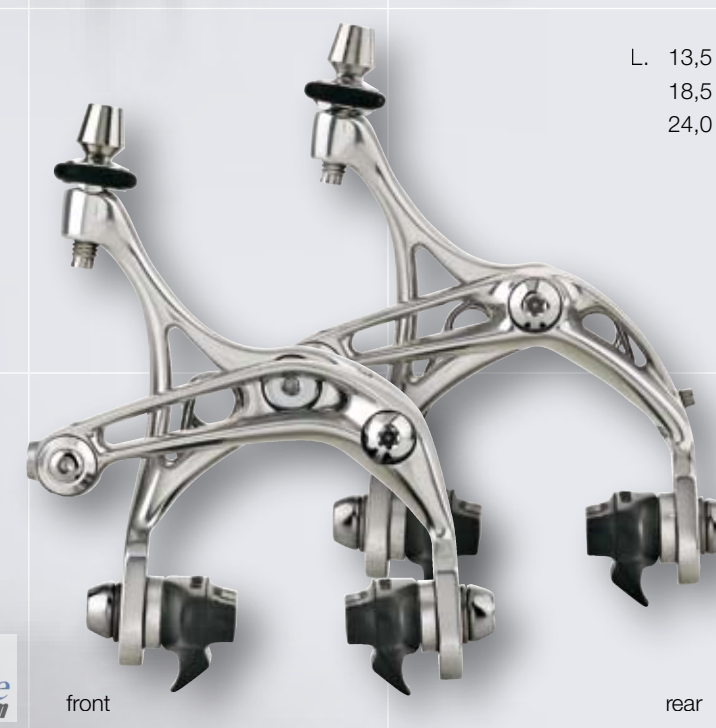
new

new

Ø 32
Ø 35



Flat Bar



front

rear

L. 13,5
18,5
24,0



Centaur™

VELOCE™ INFINITE™



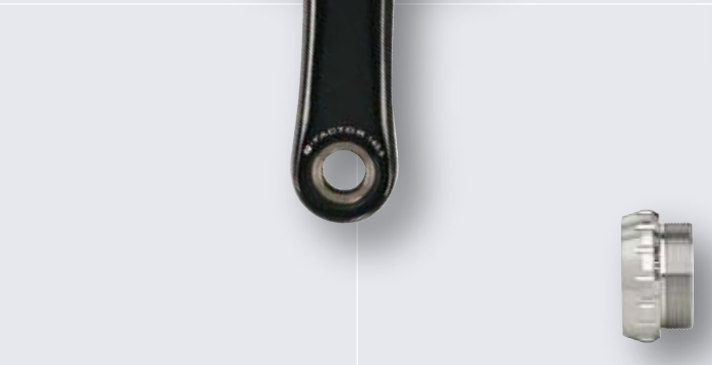
The Veloce™ groupset is available with two finishes, the aggressive Veloce™ Infinite™ gloss black version as well as the traditional polished Silver one.



standard



compact



short



medium

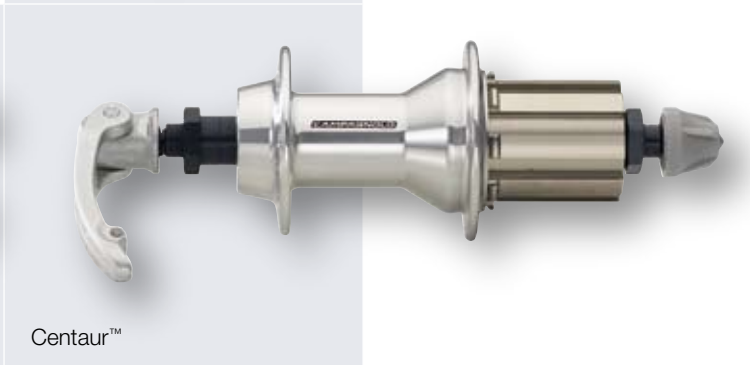


new

new



front
















Centaur™



rear

L. 13,5
18,5
24,0

COMPONENT	FEATURES	BENEFITS
 VELOCE™ 10s rear derailleur	aluminium bodies	➤ mechanical strength, weight savings, rigidity, minimum ageing
	rollers on bushings	➤ long life, low friction
	rollers in special rubber	➤ damping of vibrations
 VELOCE™ front derailleur	standardised Standard/Compact forkt	➤ versatility
	chrome-plated nickel fork	➤ long life and low wear
	surface treatments	➤ protection from rust
 VELOCE™ QS™ Ergopower™ controls	aluminum brake lever	➤ weight savings, reliability, rigidity, mechanical strength, long fatigue life
	body made of technopolymer with long glass fibre	➤ mechanical strength and corrosion-proof, weight savings, rigidity, minimum ageing
	internal Escape™ mechanism	➤ minimum wear, minimum maintenance, weight savings, precision, indexing on the front derailleur
	silicone hood	➤ anallergic, elastic, memory of form, stability with UV and high temperatures
	brake opening control in the brake lever	➤ greater ergonomics, greater security
 FB VELOCE™ Ergopower™ controls	aluminum brake lever	➤ weight savings, reliability, rigidity, mechanical strength, long fatigue life
	upshift up to three sprockets	➤ fast shifting
	downshift up to three sprockets	➤ fast shifting
	rolling mechanism	➤ low friction-light operation, low maintenance, great reliability
	adjustable brake lever distance	➤ maximum ergonomics and security with hands of various sizes
	optical gear display	➤ fast checking without distractions
	indexed left-hand control	➤ fast and precise shifting
 VELOCE™ front hub	sealed bearings	➤ low maintenance
	oversize body	➤ greater rigidity, weight savings
	Symmetric Action™ lever on the release	➤ even and effective operation
 VELOCE™ rear hub	sealed bearings	➤ low maintenance
	monolithic freewheel body	➤ weight savings
	oversize body	➤ greater rigidity, weight savings
	Symmetric Action™ lever on the release	➤ even and effective operation
	higher release lever housing	➤ better interface with the frames

COMPONENT	FEATURES	BENEFITS
 VELOCE™ UD™ 10s sprockets	sprocket synchronization	➤ fast precise shifting, less stress for the chain
	Ultra-Drive machining™ of the teeth	➤ chain passage optimization
	nickel-chrome surface treatments	➤ longer life, lower wear
 VELOCE™ Ultra-Narrow™ chain	width 5.9 mm	➤ quiet operation, less interference with adjacent sprockets and chainrings, high-performance shifting
	HD-Link™	➤ extremely high retention force
 VELOCE™ Ultra-Torque™ crankset	forged aluminium cranks	➤ excellent mechanical specifications, longer fatigue life
	sheared-drawn chainring	➤ more rigid for same weight
	pedal shouldershoulder area tapered washer	➤ longer fatigue life
	rolled pedal thread	➤ longer fatigue life
	8 pins on the large chainring	➤ faster shifting
	Ultra-Torque™ bottom bracket	➤ see specific window
 Ultra-Torque™ System	Hirth-type joint	➤ self-centering, self-aligning, extreme strength
	15 mm locking bolt with preloading Belleville spring	➤ great strength, great security, preload the joint with 1300lb/600kg, self-locking
	variable section semi-axes	➤ great weight savings, strength where necessary
	great interface diameter with the crank	➤ makes it possible to make a thinner crank, with less lateral bulk/better Q-factor
	bearings on semi-axes	➤ simple fast maintenance, fast and simple changing
	triple gaskets	➤ good insulation with reduced friction
	preloading spring on the bearings	➤ elimination of lateral bearing movement
	crescent spring for RH bearing	➤ prevention of crankset movements compared with frame
	cups with surface treatment	➤ reduced wear and noise
 VELOCE™ Skeleton™ brakes	forged arms	➤ stronger, maximum life cycle
	skeletonized arms	➤ greater weight savings with same rigidity
	special pad compound	➤ excellent balance between performance on dry and wet surface, modulable braking and long pad life
	differentiated front-rear	➤ powerful front, light and modulable rear
 VELOCE™ linear pull cantilever brakes	forged arms	➤ stronger, maximum life cycle
	special pad compound	➤ excellent balance between performance on dry and wet surface, modulable braking and long pad life
	fast-fit pads	➤ speedy replacement and secure retention
 RECORD™ sub-shell plate	technopolymer with PTFE	➤ self-lubricating, minimum friction

VELOCE™ 2008

COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
VELOCE™ 10s rear derailleur	short cage	upper to lower pulley-axe: 55 mm	250
	medium cage	upper to lower pulley-axe: 72,5 mm	259
VELOCE™ QS™ STD + CT™ front derailleur	braze-on / clip-on: 32, 35 mm	for double standard and CT™ crankset - capacity 16 – max. chainring 55 - min. chainring 34 - antifriction insert	98
VELOCE™ QS™ 10s Ergopower™ shifters		for caliper brakes - double/triple crankset compatible - composite body – ESCAPE™ mechanism - not compatible with ErgoBrain™	351
VELOCE™ 10s Ergopower™ FB shifters		for caliper brakes - double/triple crankset compatible - alu-composite body – aluminium brake lever - requires QS™ front derailleur	340
VELOCE™ 10s Ergopower™ FB shifters		for linear pull cantilever brakes - double/triple crankset compatible - alu-composite body – aluminium brake lever - requires QS™ front derailleur	340
CENTAUR™ front hub	32, 36 holes	high quality bearings - O.L.D. 100 mm	169
CENTAUR™ rear hub	32, 36 holes	9s/10s - one-piece light alloy freewheel body – high quality bearings - lockring thread 27x1 - O.L.D. 130 mm	312
VELOCE™ UD™ 10s sprockets - steel	11-25, 12-23, 12-25, 13-26, 13-29, 14-23	Ultra-Drive™ - single sprockets - nickel-chromed finish - supplied without lockring (except for 11-25)	250
VELOCE™ Ultra-Narrow™ chain		10s - width 5,9 mm - Ni-PTFE Finish - 114 links - Ultra-Drive™ - requires HD-Link™ for Ultra Narrow™ chain	2,39/ link **
VELOCE™ Ultra-Torque™ 10s crankset	170, 172.5, 175 mm	39-53 - Exa-Drive™ chainrings - integrated ULTRA-TORQUE™ semi-axes - requires ULTRA-TORQUE™ BB overboard cups	836
VELOCE™ Ultra-Torque™ CT™ 10s crankset	170, 172.5, 175 mm	34-50 - Exa-Drive™ chainrings - integrated ULTRA-TORQUE™ semi-axes - requires ULTRA-TORQUE™ BB overboard cups	821
RECORD™ Ultra-Torque™ BB overboard cups	ITA, ENG	aluminium	49
VELOCE™ D Skeleton™ brakes	front fixing bolt: 13,5 - 18,5 - 24 mm	brake-pad height adjustment ratio: 40÷50 mm (measured from brake fixing-bolt to brake-shoe-nut) - integrated shoe-holder - lightened rear brake	349
VELOCE™ linear pull cantilever brakes		for distances between brake bosses from 70 to 83 mm and for rim widths from 19.5 to 26.5 mm	378
RECORD™ cable guide plate		to fit under bottom bracket shell - composite, suitable to oversize shells	5

* The nominal weight refers to the lighter specification among the available options. The weight of the hubs does not include the quick-release.
The nominal weight does not take account of the sometimes considerable quantities of grease used in the assembly of the products.
** Example: 2,39 x 108 links = 258 g



MIRAGE™



A groupset dedicated to the use of the bike in the most leisurely sense but still without performance compromises at a technical level: included are the CT™ cranksets, often preferred for gearing down the pedal action, and Flat Bar controls, for a higher position.



standard

compact



short

medium



Flat Bar



Veloce™



new



new

Ø 32
Ø 35










front / rear

L. 13,5
18,5
24,0



COMPONENT	FEATURES	BENEFITS
 MIRAGE™ 10s rear derailleur	aluminium bodies	➤ mechanical strength, weight savings, rigidity, minimum ageing
	rollers on bushings	➤ long life, low friction
	rollers in special rubber	➤ damping of vibrations
 MIRAGE™ front derailleur	standardised Standard/Compact fork	➤ versatility
	chrome-plated nickel fork	➤ long life and low wear
	surface treatments	➤ protection from rust
 MIRAGE™ QS™ Ergopower™ controls	aluminum brake lever	➤ weight savings, reliability, rigidity, mechanical strength, long fatigue life
	body made of technopolymer with long glass fibre	➤ mechanical strength and corrosion-proof, weight savings, rigidity, minimum ageing
	internal Escape™ mechanism	➤ minimum wear, minimum maintenance, weight savings, precision, indexing on the front derailleur
	silicone hood	➤ anallergic, elastic, memory of form, stability with UV and high temperatures
	fast brake opening control in the brake lever	➤ greater ergonomics, greater security
 FB MIRAGE™ Ergopower™ controls	body made of technopolymer with oriented, long glass fibre	➤ reliability, rigidity, mechanical strength, corrosion-proof, long fatigue life
	upshift up to three sprockets	➤ fast shifting
	downshift up to three sprockets	➤ fast shifting
	rolling mechanism	➤ low friction-light operation, low maintenance, great reliability
	adjustable brake lever distance	➤ maximum ergonomics and security with hands of various sizes
	optical gear display	➤ fast checking without distractions
	indexed left-hand control	➤ fast and precise shifting
 MIRAGE™ front hub	sealed bearings	➤ low maintenance
	aluminium axle	➤ weight savings
	oversize body	➤ greater rigidity, weight savings
	Symmetric Action™ lever on the release	➤ even and effective operation
 MIRAGE™ rear hub	sealed bearings	➤ low maintenance
	monolithic freewheel body	➤ weight savings
	oversize body	➤ greater rigidity, weight savings
	Symmetric Action™ lever on the release	➤ even and effective operation
	higher release lever housing	➤ better interface with the frames

COMPONENT	FEATURES	BENEFITS
 MIRAGE™ UD™ 10s sprockets	sprocket synchronization	➤ fast precise shifting, less stress for the chain
	Ultra-Drive™ machining of the teeth	➤ chain passage optimization
	galvanized	➤ rust-proof
 VELOCE™ Ultra-Narrow™ chain	width 5.9 mm	➤ quiet operation, less interference with adjacent sprockets and chainrings, high-performance shifting
	HD-Link™	➤ extremely high retention force
 MIRAGE™ Ultra-Torque™ crankset	forged aluminium cranks	➤ excellent mechanical specifications, longer fatigue life
	sheared-drawn chainrings	➤ more rigid for same weight
	pedal shoulder area tapered washer	➤ longer fatigue life
	rolled pedal thread	➤ longer fatigue life
	8 pins on the large chainring	➤ faster shifting
	Ultra-Torque™ bottom bracket	➤ see specific window
 Ultra-Torque™ System	Hirth-type joint	➤ self-centering, self-aligning, extreme strength
	15 mm locking bolt with preloading Belleville spring	➤ great strength, great security, preload the joint with 1300lb/600kg, self-locking
	variable section semi-axes	➤ great weight savings, strength where necessary
	great interface diameter with the crank	➤ makes it possible to make a thinner crank, with less lateral bulk/better Q-factor
	bearings on semi-axes	➤ simple fast maintenance, fast and simple changing
	triple gaskets	➤ good insulation with reduced friction
	preloading spring on the bearings	➤ elimination of lateral bearing movement
	crescent spring for RH bearing	➤ prevention of crankset movements compared with frame
 MIRAGE™ brakes	cups with surface treatment	➤ reduced wear and noise
	forged arms	➤ stronger, maximum life cycle
	special pad compound	➤ excellent balance between performance on dry and wet surface, moduable braking and long pad life
 VELOCE™ linear pull cantilever brakes	forged arms	➤ stronger, maximum life cycle
	special pad compound	➤ excellent balance between performance on dry and wet surface, moduable braking and long pad life
	fast-fit pads	➤ speedy replacement and secure retention
 RECORD™ plate	technopolymer with PTFE	➤ self-lubricating, minimum friction

MIRAGE™ 2008

COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
MIRAGE™ 10s rear derailleur	short cage	upper to lower pulley-axe: 55 mm	269
	medium cage	upper to lower pulley-axe: 72,5 mm	274
MIRAGE™ QS™ STD + CT™ front derailleur	brazo-on / clip-on: Ø 32, 35 mm	for double standard and CT™crankset - capacity 16 – max. chainring 55 - min. chainring 34 - antifriction insert	106
MIRAGE™ QS™ 10s Ergopower™ shifters		for caliper brakes - double/triple crankset compatible – composite body - aluminium levers - ESCAPE™ mechanism - not compatible with ErgoBrain™	352
MIRAGE™ 10s Ergopower™ FB shifters		for caliper brakes - double/triple crankset compatible – alu-composite body - composite brake lever - requires QS™ front derailleur	340
MIRAGE™ 10s Ergopower™ FB shifters		for linear pull cantilever brakes - double/triple crankset compatible – alu-composite body - composite brake lever - requires QS™ front derailleur	340
MIRAGE™ front hub	32, 36 holes	high quality bearings - O.L.D. 100 mm	140
MIRAGE™ rear hub	32, 36 holes	9s/10s - one-piece light alloy freewheel body – high quality bearings - lockring thread 27x1 - O.L.D. 130 mm	303
MIRAGE™UD™ 10s sprockets steel	11-25, 12-23, 12-25, 13-26, 13-29	Ultra-Drive™ - single sprockets - galvanized - supplied without lockring (except for 11-25)	259
VELOCE™ Ultra-Narrow™ chain		10s - width 5,9 mm - Ni-PTFE Finish - 114 links - Ultra-Drive™ - requires HD-Link™ for Ultra Narrow™ chain	2,39/ link **
MIRAGE™ Ultra-Torque™ 10s crankset	170, 172.5, 175 mm	39-53 - Black finish - Exa-Drive™ – steel inner chainring - integrated ULTRA-TORQUE™ semi-axes - requires ULTRA-TORQUE™ overboard cups	876
MIRAGE™ Ultra-Torque™ CT™ 10s crankset	170, 172.5, 175 mm	34-50 - Black finish - Exa-Drive™ – steel inner chainring - integrated ULTRA-TORQUE™ semi-axes - requires ULTRA-TORQUE™ BB overboard cups	861
RECORD™ Ultra-Torque™ BB overboard cup	ITA, ENG	aluminium	49
MIRAGE™ brakes	front fixing bolt: 13,5 - 18,5 - 24 mm	brake-pad height adj. ratio: 40÷50 mm (measured from brake fixing-bolt to brake-shoe-nut)	340
MIRAGE™ linear pull cantilever brakes		for distances between brake bosses from 70 to 83 mm and for rim widths from 19.5 to 26.5 mm	432
RECORD™ cable guide plate		to fit under bottom bracket shell - composite, suitable to oversize shells	5

* The nominal weight refers to the lighter specification among the available options. The weight of the hubs does not include the quick-release.
The nominal weight does not take account of the sometimes considerable quantities of grease used in the assembly of the products.

** Example: 2,39 x 108 links = 258 g



XENON™

Only Campagnolo® can offer you a 10-speed groupset that boasts functional features which fear no comparison at this price level. With its makeup, which partly makes use of Mirage™ components, the Xenon™ constitutes the most interesting groupset for special bikes in the first market bracket.

compact



L. 13,5
18,5
24,0

front / rear



Mirage™



Veloce™



Mirage™



short








medium






Mirage™



Veloce™

COMPONENT	FEATURES	BENEFITS
<div>XENON™ 10s rear derailleur</div> 	body made of technopolymer with glass fibre	➤ mechanical strength and corrosion-proof, weight savings, rigidity, minimum ageing
	rollers on bushings	➤ long life, low friction
	rollers in special rubber	➤ damping of vibrations
<div>XENON™ front derailleur</div> 	chrome-plated nickel fork	➤ long life and low wear
	surface treatments	➤ protection from rust
<div>XENON™ QS™ Ergopower™ controls</div> 	brake lever in technopolymer with oriented, long glass fibre	➤ reliability, rigidity, mechanical strength, corrosion-proof, long fatigue life
	body made of technopolymer with long glass fibre	➤ mechanical strength and corrosion-proof, weight savings, rigidity, minimum ageing
	internal Escape™ mechanism	➤ minimum wear, minimum maintenance, weight savings, precision, indexing on the front derailleur
	silicone hood	➤ anallergic, elastic, memory of form, stability with UV and high temperatures
	fast brake opening control in the brake lever	➤ greater ergonomics, greater security
<div>MIRAGE™ front hub</div> 	sealed bearings	➤ low maintenance
	aluminium axle	➤ weight savings
	oversize body	➤ greater rigidity, weight savings
	Symmetric Action™ lever on the release	➤ even and effective operation
<div>MIRAGE™ rear hub</div> 	sealed bearings	➤ low maintenance
	monolithic freewheel body	➤ weight savings
	oversize body	➤ greater rigidity, weight savings
	Symmetric Action™ lever on the release	➤ even and effective operation
	higher release lever housing	➤ better interface with the frames
<div>MIRAGE™ UD™ 10s sprockets</div> 	sprocket synchronization	➤ fast precise shifting, less stress for the chain
	Ultra-Drive™ machining of the teeth	➤ chain passage optimization
	galvanized	➤ rust-proof
<div>VELOCE™ Ultra-Narrow™ chain</div> 	width 5.9 mm	➤ quiet operation, less interference with adjacent chainrings and sprockets, high-performance shifting
	HD-Link™	➤ extremely high retention force

COMPONENT	FEATURES	BENEFITS
<div>XENON™ crankset</div> 	forged aluminium cranks	➤ excellent mechanical specifications, longer fatigue life
	sheared-drawn chainrings	➤ more rigid for same weight
	rolled pedal thread	➤ longer fatigue life
	8 pins on the large chainring	➤ faster shifting
<div>VELOCE™ bottom bracket</div> 	ISO spindle	➤ reliable and simple to fit
	sealed cartridge	➤ maintenance-free, easy to fit
<div>XENON™ brakes</div> 	forged arms	➤ stronger, maximum life cycle
	special pad compound	➤ excellent balance between performance on dry and wet surface, moduable braking and long pad life
RECORD™ sub-shell plate	technopolymer with PTFE	➤ self-lubricating, minimum friction

XENON™ 2008

COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
XENON™ 10s rear derailleur	short cage	upper to lower pulley-axle: 55 mm	253
	medium cage	upper to lower pulley-axle: 72,5 mm	258
XENON™ QS™ CT™ 9s/10s front derailleur	brazed-on / clip-on: Ø 32, 35 mm	for CT™ crankset - capacity 16 – chainring max 50 - chainring min 34	108
XENON™ QS™ 10s Ergopower™ shifters		for caliper brakes - double/triple crankset compatible – composite body and levers - ESCAPE™ mechanism - not compatible with ErgoBrain™	363
MIRAGE™ front hub	32, 36 holes	high quality bearings - O.L.D. 100 mm	140
MIRAGE™ rear hub	32, 36 holes	9s/10s - one-piece light alloy freewheel body – high quality bearings - lockring thread 27x1 - O.L.D. 130 mm	303
MIRAGE™ UD™ 10s sprockets steel	11-25, 12-23, 12-25, 13-26, 13-29	Ultra-Drive™ - single sprockets - galvanized - supplied without lockring (except for 11-25)	259
VELOCE™ Ultra-Narrow™ chain		10s - width 5,9 mm - Ni-PTFE Finish - 114 links - Ultra-Drive™ - requires HD-Link™ for Ultra Narrow™ chain	2,39/ link **
XENON™ CT™ crankset	170, 172,5, 175 mm	Exa-Drive™ chainrings – 34-50 - requires b.b. with L. 111 mm - requires CT™ front derailleur	768
VELOCE™ bottom bracket	ITA, ENG	111 mm - cartridge b.b. - solid axle - light alloy cups	299
MIRAGE™ brakes	front fixing bolt: 13,5 - 18,5 - 24 mm	brake-pad height adj. ratio: 40÷50 mm (measured from brake fixing-bolt to brake-shoe-nut)	340
RECORD™ cable guide plate		to fit under bottom bracket shell - composite, suitable to oversize shells	5

* The nominal weight refers to the lighter specification among the available options. The weight of the hubs does not include the quick-release.
The nominal weight does not take account of the sometimes considerable quantities of grease used in the assembly of the products.

** Example: 2,39 x 108 links = 258 g



RECORD™ PISTA™



The Record™ Pista™ groupset is a set of high-range components designed to excel in the velodrome. It includes the crankset, hubs and bottom bracket. Three products designed exclusively for the specific needs of use on the track. The other components, such as seat posts, pedals and headsets have been borrowed directly from the Record road groupset.

COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
RECORD™ PISTA™ front hub	32, 36 holes	light alloy body – lubrication port - small flanges - O.L.D. 100 mm	204
RECORD™ PISTA™ rear hub	32, 36 holes	light alloy body – lubrication port - small flanges - O.L.D. 120 mm	284
RECORD™ PISTA™ crankset	165, 170 mm 47, 48, 49, 50, 51, 52	requires b.b. L. 111 mm (asymmetrical)	592
RECORD™ PISTA™ bottom bracket	ITA, ENG	axle L. 111 mm (asymmetrical) - composite and light alloy cartridge - light alloy cups - without sealings	220
RECORD™ Pro-Fit Plus™ pedals		Titanium axle -light alloy body - with floating (standard) or fixed (optional) cleats - composite axle fixing nuts - polished aluminium finish - left axle compatible with the ErgoBrain™ magnet	266
RECORD™ CARBON seat post	27,2 / 250 31,6 / 350 32,4 / 350	composite tube - clamp for seat tube - knurling pitch: 0.5 mm - composite upper clamp	185
RECORD™ headset		BC 1"x24tpi - height 36.5 mm	104
RECORD™ Threadless™ headset	1", 1-1/8"	for unthreaded fork tube - height 24.5 mm - composite cover and light alloy fixing screw - lubrication port	110
RECORD™ Hiddenset™ headset	1-1/8" 1-1/8" TTC™	internal headset for unthreaded fork tube - version 1-1/8": height 5.9 mm,version 1-1/8" TTC™: height 15.9 mm - patent pending system - composite cover and light alloy fixing screw - composite/light alloy cap	73

* The nominal weight refers to the lighter specification among the available options. The weight of the hubs does not include the quick-release. The nominal weight does not take account of the sometimes considerable quantities of grease used in the assembly of the products.

TIME TRIAL™



Racing against the clock. Every detail is critical. Nothing is left to chance. Lightness and aerodynamics are the keywords. Campagnolo® dedicates various special components to time trials: bar-end controls, chainrings with oversized tooting and super-light brake levers in composite material.

COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
bar-end 10s shift. levers		composite body and lever	163
RECORD™ brake levers		composite body and lever	210
inner chainrings	42,44	Exa-Drive™ system	51
RECORD™ 10s inner chainrings	54, 55	Exa-Drive™ system	88
CHORUS™ 10s inner chainrings	54, 55	Exa-Drive™ system	88

* The nominal weight refers to the lighter specification among the available options.
The nominal weight does not take account of the sometimes considerable quantities of grease used in the assembly of the products.

TRIPLE

Comp Triple™



Race Triple™



Champ Triple™



There are three triple drivetrain kits available for enthusiasts of the steepest climbs, two 10-speeds and a 9-speed one, to have the most agile possible ratio set at your fingertips. The kits consist of a crankset, front derailleur and a rear derailleur with a long cage, and require the use of 111 mm and 115.5 mm ISO bottom brackets.

TRIPLE 2008

Comp Triple™			
COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
COMP TRIPLE™ 10s rear derailleur		long cage - upper to lower pulley-axle: 89 mm	238
COMP TRIPLE™ front derailleur	braze-on / clip-on: Ø 32, 35 mm	for triple crankset - capacity 22 – chainring max 53 - chainring min 30	98
COMP TRIPLE™ 10s Triple crankset	170, 175 mm 30-40-50, 30-42-53	Ultra-Drive™ chainrings - requires b.b. with L. 111 (for seat tube Ø 28,6 mm) or 115.5 mm (for oversize seat tube Ø 32 or 35 mm)	788
CENTAUR™ bottom bracket	ITA, ENG 111, 115,5 mm	cartridge b.b. - hollow axle- light alloy cups	233

Race Triple™			
COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
RACE TRIPLE™ 10s rear derailleur		long cage - upper to lower pulley-axle: 89 mm	275
RACE TRIPLE™ front derailleur	braze-on / clip-on: Ø 32, 35 mm	for triple crankset - capacity 22 – chainring max 52 - chainring min 30	118
RACE TRIPLE™ 10s Triple crankset	170, 175 mm	30-42-52 - Exa-Drive™ chainrings requires b.b. with L. 111 (for seat tube Ø 28,6 mm) or 115.5 mm (for oversize seat tube Ø 32 or 35 mm)	882
VELOCE™ bottom bracket	ITA, ENG 111, 115,5 mm	cartridge b.b. - solid axle - light alloy cups	299

Champ Triple™			
COMPONENT	OPTIONS	DESCRIPTION	WEIGHT (G.)*
CHAMP TRIPLE™ 9s rear derailleur		long cage - upper to lower pulley-axle: 89 mm	263
CHAMP TRIPLE™ front derailleur	braze-on / clip-on: Ø 32 mm	for triple crankset - capacity 22 – chainring max 52 - chainring min 30	118
XENON™ 9s Ergopower™ shifters		for caliper brakes - double/triple crankset compatible – composite lever and body - ESCA-PE™ mechanism - not compatible with ErgoBrain™	357
CHAMP TRIPLE™ 9s Triple crankset	170, 175 mm	30-42-52 - Exa-Drive™ chainrings requires b.b. with L. 111 (for seat tube Ø 28,6 mm) or 115.5 mm (for oversize seat tube Ø 32 or 35 mm)	970
VELOCE™ bottom bracket	ITA, ENG 111, 115,5 mm	cartridge b.b. - solid axle - light alloy cups	299

* The nominal weight refers to the lighter specification among the available options.
The nominal weight does not take account of the sometimes considerable quantities of grease used in the assembly of the products.



WHEELS



Low-Profile	64	Hyperon™ Ultra™
	70	Neutron™ Ultra™
	74	Neutron™
Medium-Profile	78	Shamal™ Ultra™
	84	Eurus™
	88	Zonda™
	92	Scirocco™
	96	Vento™
High-Profile	100	Khamsin™
	104	Bora™ Ultra™
	108	Ghibli™
	110	Pista™

ALL-CARBON™
ULTRALINEAR™

HYPERON™ ULTRA™

clincher



rear

low profile



front

A case study of the technical potential carbon fibre is capable of expressing. The first wheel with full-carbon rim and hub built entirely in Italy.

tubular



front



rear



Provided with FW body

Campagnolo® 9/10
Or
HG 10
**only 10s sprockets of Shimano Inc. starting from 11 and 12.

Available as spare part

HG 8/9 of Shimano Inc.



FEATURES	BENEFITS
polygonal rim	➤ rigidity and weight savings
differentiated front-rear rims	➤ optimized weight/performance ratio
asymmetrical rear rim	➤ better dish, greater lateral rigidity, greater strength
differentiated spokes	➤ optimized weight/performance ratio
variable section stainless steel aero spokes	➤ weight savings, aerodynamic
Ultralinear™ geometry	➤ maximum spoke life, rigidity of the structure
nut-plate system with ball coupling	➤ self-orienting, optimum load distribution
self-locking nuts	➤ prevention of spoke tension loss
dynamic balancing	➤ greater stability at high speeds
rear hub with oversize right-hand flange	➤ maximum torque transmission
carbon hub bodies	➤ maximum weight savings and long fatigue life
aluminium right-hand rear flange	➤ rigidity, maximum torque transmission
cup and cone bearings	➤ low friction, adjustable, easy to maintain
4x15 balls 5/32" in Grade 10 stainless steel	➤ excellent bearing low friction and life
"ceramic ready" bearings	➤ the Grade 3 ceramic ball bearing kit, available as an optional accessory, can be fitted without modifications
standardised front-rear bearings	➤ handy maintenance
monolithic FW body	➤ weight savings
oversize light-alloy axles	➤ weight savings and rigidity
locking with light-alloy lever housing and Symmetric Action™ light-alloy lever	➤ weight savings, uniform and effective operation
special brake pads	➤ maximum modulability on dry and wet surfaces



	front	rear	rear HG
nominal weight (g)*	575	775	775
diameter	28"	28"	28"
rim material	carb	carb	carb
rim section: height/width – mm (nominal)	21/20	23/20	23/20
type of rim	-	-	-
asymmetrical holes		•	•
requires rim tape	•	•	•
rim finishing	carb	carb	carb
number of spokes	22	24	24
dynamic balance	•	•	•
spokes material	SS	SS	SS
spoke type	AE DB	AE DB	AE DB
differential spokes r/l			
Ultralinear™ geometry	•	•	•
nut/nipple material	alu	alu	alu
O.L.D. (mm)	100	130	130
hub body material	carb	carb	carb
oversize hub axle	•	•	•
hub finishing	carb	carb	carb
QR type	20	20	20
compatible (9/10)		9/10	10**

KEY
M = Milled
MT = Toroidal Milling
DB = Butted
AE = Aero
UAE = Ultra Aero
SS = Stainless steel
BR = Brass
QUICK RELEASES: 20, 30, 40

*The weight of the wheels does not include the quick release.



Provided with FW body

Campagnolo®
9/10

Or

HG 10

**only 10s sprockets of Shimano Inc.
starting from 11 and 12.

Available as spare part

HG 8/9 of Shimano Inc.



FEATURES	BENEFITS
polygonal rim	➤ rigidity and weight savings
differentiated front-rear rims	➤ optimized weight/performance ratio
asymmetrical rear rim	➤ better dish, greater lateral rigidity, greater strength
differentiated spokes	➤ optimized weight/performance ratio
variable section stainless steel aero spokes	➤ weight savings, aerodynamic
Ultralinear™ geometry	➤ maximum spoke life, rigidity of the structure
nut-plate system with ball coupling	➤ self-orienting, optimum load distribution
self-locking nuts	➤ prevention of spoke tension loss
dynamic balancing	➤ greater stability at high speeds
carbon hub bodies	➤ maximum weight savings and long fatigue life
aluminium right-hand rear flange	➤ rigidity, maximum torque transmission
cup and cone bearings	➤ low friction, adjustable, easy to maintain
4x15 balls 5/32" in Grade 10 stainless steel	➤ excellent bearing low friction and life
"ceramic ready" bearings	➤ the Grade 3 ceramic ball bearing kit, available as an optional accessory, can be fitted without modifications
standardised front-rear bearings	➤ handy maintenance
monolithic FW body	➤ weight savings
oversize light-alloy axles	➤ weight savings and rigidity
locking with light-alloy lever housing and Symmetric Action™ light-alloy lever	➤ weight savings, uniform and effective operation
special brake pads	➤ maximum modulability on dry and wet surfaces



	front	rear	rear HG
nominal weight (g)*	520	700	700
diameter	28"	28"	28"
rim material	carb	carb	carb
rim section: height/width – mm (nominal)	19/20	21/20	21/20
type of rim	-	-	-
asymmetrical holes		•	•
requires rim tape	-	-	-
rim finishing	carb	carb	carb
number of spokes	22	24	24
dynamic balance			
spokes material	SS	SS	SS
spoke type	AE DB	AE DB	AE DB
differential spokes r/l		•	•
Ultralinear™ geometry	•	•	•
nut/nipple material	alu	alu	alu
O.L.D. (mm)	100	130	130
hub body material	carb	carb	carb
oversize hub axle	•	•	•
hub finishing	carb	carb	carb
QR type	20	20	20
compatible (9/10)		9/10	10**

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M = Milled
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SS = Stainless steel
BR = Brass
QUICK RELEASES: 20, 30, 40

*The weight of the wheels does not include the quick release.

NEUTRON™ ULTRA™

clincher

low profile

It was not easy to bring the Neutron™ to an even higher level after eight competition seasons studied by countless victories, but we managed in the end. The secret? Extreme rim extrusion calibration and carbon hubs.



rear



front



Provided with FW body

Campagnolo®
9/10

Available as spare part

HG 10
only 10s sprockets of Shimano Inc.
starting from 11 and 12.
HG 8/9 of Shimano Inc.



FEATURES	BENEFITS
polygonal rim	rigidity and weight savings
differentiated front-rear rims	optimized weight/performance ratio
rear rim with asymmetrical drilling	better dish, greater lateral rigidity, greater strength
milled rims on the front bridge	weight savings with same life
welded joint and machined sides	even, modulated and powerful braking
differentiated spokes	optimized weight/performance ratio
variable section stainless steel aero spokes	weight savings, aerodynamic
Ultralinear™ geometry	maximum spoke life, rigidity of the structure
nut-plate system with ball coupling	self-orienting, optimum load distribution
self-locking nuts	prevention of spoke tension loss
rear hub with oversize right-hand flange	maximum torque transmission
carbon and aluminium hub bodies	weight savings and long fatigue life
cup and cone bearings	low friction, adjustable, easy to maintain
4x15 balls 5/32" in Grade 10 stainless steel	excellent bearing low friction and life
"ceramic ready" bearings	the Grade 3 ceramic ball bearing kit, available as an optional accessory, can be fitted without modifications
standardised front-rear bearings	handy maintenance
monolithic FW body	weight savings
oversize light-alloy axles	weight savings and rigidity
locking with light-alloy lever housing and Symmetric Action™ light-alloy lever	weight savings, uniform and effective operation



	front	rear
nominal weight (g)*	630	840
diameter	28"	28"
rim material	alu	alu
rim section: height/width – mm (nominal)	18/20	18/20
type of rim	M	M
asymmetrical holes		•
requires rim tape	•	•
rim finishing	black	black
number of spokes	22	24
dynamic balance		
spokes material	SS	SS
spoke type	AE DB	AE DB
differential spokes r/l		•
Ultralinear™ geometry	•	•
nut/nipple material	alu	alu
O.L.D. (mm)	100	130
hub body material	alu/carb	alu/carb
oversize hub axle	•	•
hub finishing	blk/carb	blk/carb
QR type	20	20
compatible (9/10)		9/10

KEY
M = Milled
MT = Toroidal Milling
DB = Butted
AE = Aero
UAE = Ultra Aero
SS = Stainless steel
BR = Brass
QUICK RELEASES: 20, 30, 40

*The weight of the wheels does not include the quick release.

NEUTRON™

clincher

low profile

The benchmark for time trials over hills and century rides. Transversely rigid, for an “en danseuse” ride without wasted energy, but radially comfortable so as not to tire over long distances.



rear



front



Provided with FW body

Campagnolo®
9/10

Available as spare part

HG 10
only 10s sprockets of Shimano Inc.
starting from 11 and 12.
HG 8/9 of Shimano Inc.

FEATURES	BENEFITS
polygonal rim	rigidity and weight savings
differentiated front-rear rims	optimized weight/performance ratio
rear rim with asymmetrical drilling	better dish, greater lateral rigidity, greater strength
welded joint and machined sides	even, modulated and powerful braking
differentiated spokes	optimized weight/performance ratio
variable section stainless steel aero spokes	weight savings, aerodynamic
Ultralinear™ geometry	maximum spoke life, rigidity of the structure
nut-plate system with ball coupling	self-orienting, optimum load distribution
self-locking nuts	prevention of spoke tension loss
cup and cone bearings	low friction, adjustable, easy to maintain
4x15 balls 5/32" in Grade 10 stainless steel	excellent bearing low friction and life
"ceramic ready" bearings	the Grade 3 ceramic ball bearing kit, available as an optional accessory, can be fitted without modifications
standardised front-rear bearings	handy maintenance
monolithic FW body	weight savings
oversize light-alloy hub and axle bodies	weight savings and rigidity
locking with light-alloy lever housing and Symmetric Action™ light-alloy lever	weight savings, uniform and effective operation



	front	rear
nominal weight (g)*	660	890
diameter	28"	28"
rim material	alu	alu
rim section: height/width – mm (nominal)	18/20	18/20
type of rim		
asymmetrical holes		•
requires rim tape	•	•
rim finishing	black	black
number of spokes	22	24
dynamic balance		
spokes material	SS	SS
spoke type	AE DB	AE DB
differential spokes r/l		•
Ultralinear™ geometry	•	•
nut/nipple material	alu	alu
O.L.D. (mm)	100	130
hub body material	alu	alu
oversize hub axle	•	•
hub finishing	black	black
QR type	40	40
compatible (9/10)		9/10

KEY
M = Milled
MT = Toroidal Milling
DB = Butted
AE = Aero
UAE = Ultra Aero
SS = Stainless steel
BR = Brass
QUICK RELEASES: 20, 30, 40

*The weight of the wheels does not include the quick release.

SHAMAL™ ULTRA™

clincher

The latest arrival in the Shamal family for 2008. No photograph can ever render justice to the attractive colouring of the new Titanium version. The specifications of this thoroughbred from the Campagnolo® household are unchanged.



titanium rear



titanium front



gold rear



gold front

New



FEATURES	BENEFITS
rim with toroidal milling	➤ weight savings and strength
welded joint and machined sides	➤ even, modulated and powerful braking
dynamic balancing	➤ greater stability at high speeds
variable section aluminium aero spokes	➤ rigidity, weight savings and aerodynamic
selected rims	➤ maximum weight savings
differentiated front-rear rims	➤ enhanced performance
G3™ geometry (rear)	➤ greater lateral rigidity, maximum torque transmission
aluminium nipples	➤ weight savings
oriented spoke holes	➤ spoke linearity
Ultralinear™ geometry	➤ maximum spoke life, rigidity of the structure
carbon-aluminium hub bodies	➤ weight savings and long fatigue life
oversize right-hand rear flange	➤ rigidità, ottimale trasmissione della coppia
cup and cone bearings	➤ low friction, adjustable, easy to maintain
4x15 balls 5/32" in Grade 10 stainless steel	➤ excellent bearing low friction and life
"ceramic ready" bearings	➤ the Grade 3 ceramic ball bearing kit, available as an optional accessory, can be fitted without modifications
standardised front-rear bearings	➤ handy maintenance
monolithic FW body	➤ weight savings
oversize light-alloy axles	➤ weight savings and rigidity
locking with light-alloy lever housing and Symmetric Action™ light-alloy lever	➤ weight savings, uniform and effective operation
undrilled top bridge	➤ no rim-tape required

Provided with FW body

Campagnolo® 9/10
Or
HG 10
**only 10s sprockets of Shimano Inc. starting from 11 and 12.

Available as spare part

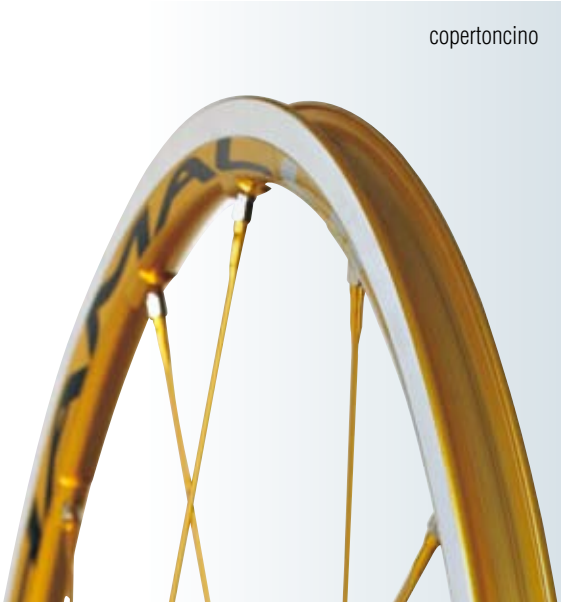
HG 8/9 of Shimano Inc.



	front	rear	rear HG
nominal weight (g)*	605	790	790
diameter	28"	28"	28"
rim material	alu	alu	alu
rim section: height/width – mm (nominal)	24/20	28/20	28/20
type of rim	MT	MT	MT
asymmetrical holes		•	•
requires rim tape			
rim finishing	titanium	titanium	titanium
number of spokes	16	21/G3™	21/G3™
dynamic balance	•	•	•
spokes material	alu	alu	alu
spoke type	AE DB	AE DB	AE DB
differential spokes r/l			
Ultralinear™ geometry	•	•	•
nut/nipple material	alu	alu	alu
O.L.D. (mm)	100	130	130
hub body material	alu/carb	alu/carb	alu/carb
oversize hub axle	•	•	•
hub finishing	blk/carb	blk/carb	blk/carb
QR type	20	20	20
compatible (9/10)		9/10	10**

KEY
M = Milled
MT = Toroidal Milling
DB = Butted
AE = Aero
UAE = Ultra Aero
SS = Stainless steel
BR = Brass
QUICK RELEASES: 20, 30, 40

*The weight of the wheels does not include the quick release.



copertoncino



tubolare

Provided with FW body

Campagnolo®
9/10
Or
HG 10
**only 10s sprockets of Shimano Inc.
starting from 11 and 12.

Available as spare part

HG 8/9 of Shimano Inc.

FEATURES	BENEFITS
rim with toroidal milling	➤ weight savings and strength
welded joint and machined sides	➤ even, modulated and powerful braking
dynamic balancing	➤ greater stability at high speeds
variable section aluminium aero spokes	➤ rigidity, weight savings and aerodynamic
selected rims	➤ maximum weight savings
differentiated front-rear rims	➤ enhanced performance
G3™ geometry (rear)	➤ greater lateral rigidity, maximum torque transmission
aluminium nipples	➤ weight savings
oriented spoke holes	➤ spoke linearity
Ultralinear™ geometry	➤ maximum spoke life, rigidity of the structure
carbon-aluminium hub bodies	➤ weight savings and long fatigue life
oversize right-hand rear flange	➤ rigidità, ottimale trasmissione della coppia
cup and cone bearings	➤ low friction, adjustable, easy to maintain
4x15 balls 5/32" in Grade 10 stainless steel	➤ excellent bearing low friction and life
"ceramic ready" bearings	➤ the Grade 3 ceramic ball bearing kit, available as an optional accessory, can be fitted without modifications
standardised front-rear bearings	➤ handy maintenance
monolithic FW body	➤ weight savings
oversize light-alloy axles	➤ weight savings and rigidity
locking with light-alloy lever housing and Symmetric Action™ light-alloy lever	➤ weight savings, uniform and effective operation
undrilled top bridge	➤ no rim-tape required



	front	rear	rear HG
nominal weight (g)*	605	790	790
diameter	28"	28"	28"
rim material	alu	alu	alu
rim section: height/width – mm (nominal)	clincher 24/20 tubular 24,5/20	28/20 28,5/20	28/20 28,5/20
type of rim	MT	MT	MT
asymmetrical holes		•	•
requires rim tape	-	-	-
rim finishing	gold	gold	gold
number of spokes	16	21/G3™	21/G3™
dynamic balance	•	•	•
spokes material	alu	alu	alu
spoke type	AE DB	AE DB	AE DB
differential spokes r/l			
Ultralinear™ geometry	•	•	•
nut/nipple material	alu	alu	alu
O.L.D. (mm)	100	130	130
hub body material	alu/carb	alu/carb	alu/carb
oversize hub axle	•	•	•
hub finishing	blk/carb	blk/carb	blk/carb
QR type	20	20	20
compatible (9/10)		9/10	10**

KEY
M = Milled
MT = Toroidal Milling
DB = Butted
AE = Aero
UAE = Ultra Aero
SS = Stainless steel
BR = Brass
QUICK RELEASES: 20, 30, 40

*The weight of the wheels does not include the quick release.

EURUS™

clincher

A wheel which, while remaining in an absolute multi-purpose framework, is ideal in situations in which weight really counts.



black rear



black front



silver rear



silver front



FEATURES	BENEFITS
rim with toroidal milling	➤ weight savings and strength
welded joint and machined sides	➤ even, modulated and powerful braking
dynamic balancing	➤ greater stability at high speeds
variable section aluminium aero spokes	➤ rigidity, weight savings and aerodynamic
differentiated front-rear rims	➤ enhanced performance
G3™ geometry (rear)	➤ greater lateral rigidity, maximum torque transmission
oriented spoke holes	➤ spoke linearity
Ultralinear™ geometry	➤ maximum spoke life, rigidity of the structure
aluminium hub bodies	➤ weight savings and long fatigue life
oversize right-hand rear flange	➤ rigidity, optimum torque transmission
cup and cone bearings	➤ low friction, adjustable, easy to maintain
4x15 balls 5/32" in Grade 10 stainless steel	➤ excellent bearing low friction and life
"ceramic ready" bearings	➤ the Grade 3 ceramic ball bearing kit, available as an optional accessory, can be fitted without modifications
standardised front-rear bearings	➤ handy maintenance
monolithic FW body	➤ weight savings
oversize light-alloy axles	➤ weight savings and rigidity
locking with light-alloy lever housing and Symmetric Action™ light-alloy lever	➤ weight savings, uniform and effective operation
undrilled top bridge	➤ no rim-tape required

Provided with FW body

Campagnolo® 9/10
Or
HG 10
**only 10s sprockets of Shimano Inc. starting from 11 and 12.

Available as spare part

HG 8/9 of Shimano Inc.



	front	rear	rear HG
nominal weight (g)*	660	890	890
diameter	28"	28"	28"
rim material	alu	alu	alu
rim section: height/width – mm (nominal)	24/20	28/20	28/20
type of rim	MT	MT	MT
asymmetrical holes		•	•
requires rim tape			
rim finishing	blk/sil	blk/sil	blk/sil
number of spokes	16	21/G3™	21/G3™
dynamic balance	•	•	•
spokes material	alu	alu	alu
spoke type	AE DB	AE DB	AE DB
differential spokes r/l			
Ultralinear™ geometry	•	•	•
nut/nipple material	SS	SS	SS
O.L.D. (mm)	100	130	130
hub body material	alu	alu	alu
oversize hub axle	•	•	•
hub finishing	blk/sil	blk/sil	blk/sil
QR type	20	20	20
compatible (9/10)		9/10	10**

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ZONDA™

clincher

A classic model, champion of the medium-high Campagnolo® range. A determined and exquisitely technical appearance distinguishes the Zonda™, a wheel with very low weight thanks to its reduced spoking.



black rear



black front



silver rear



silver front



Provided with FW body

Campagnolo®
9/10
Or
HG 10
**only 10s sprockets of Shimano Inc.
starting from 11 and 12.

Available as spare part

HG 8/9 of Shimano Inc.



FEATURES	BENEFITS
milled rim	➤ weight savings and strength
welded joint and machined sides	➤ even, modulated and powerful braking
dynamic balancing	➤ greater stability at high speeds
aero stainless steel spokes	➤ aerodynamic, corrosion-proof
differentiated front-rear rims	➤ enhanced performance
G3™ geometry (rear)	➤ greater lateral rigidity, maximum torque transmission
oriented spoke holes	➤ spoke linearity
Ultralinear™ geometry	➤ maximum spoke life, rigidity of the structure
aluminium hub bodies	➤ weight savings and long fatigue life
oversize right-hand rear flange	➤ rigidity, optimum torque transmission
cup and cone bearings	➤ low friction, adjustable, easy to maintain
4x15 balls 5/32" in Grade 10 stainless steel	➤ excellent bearing low friction and life
"ceramic ready" bearings	➤ the Grade 3 ceramic ball bearing kit, available as an optional accessory, can be fitted without modifications
standardised front-rear bearings	➤ handy maintenance
monolithic FW body	➤ weight savings
oversize light-alloy axles	➤ weight savings and rigidity
locking with light-alloy Symmetric Action™ lever	➤ uniform and effective operation
undrilled top bridge	➤ no rim-tape required



	front	rear	rear HG
nominal weight (g)*	675	935	935
diameter	28"	28"	28"
rim material	alu	alu	alu
rim section: height/width – mm (nominal)	24/20	28/20	28/20
type of rim	M	M	M
asymmetrical holes		•	•
requires rim tape			
rim finishing	blk/sil	blk/sil	blk/sil
number of spokes	16	21/G3™	21/G3™
dynamic balance	•	•	•
spokes material	SS	SS	SS
spoke type	UAE	UAE	UAE
differential spokes r/l			
Ultralinear™ geometry	•	•	•
nut/nipple material	BR	BR	BR
O.L.D. (mm)	100	130	130
hub body material	alu	alu	alu
oversize hub axle	•	•	•
hub finishing	blk/sil	blk/sil	blk/sil
QR type	20	20	20
compatible (9/10)		9/10	10**

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QUICK RELEASES: 20, 30, 40

*The weight of the wheels does not include the quick release.

SCIROCCO™

clincher

This is a model that was immediately appreciated by enthusiasts looking for a reliable wheel at a reasonable price. G3™ spoking for the rear wheel and radial G3™ for the front.



black rear



black front



silver rear



silver front



	front	rear
nominal weight (g)*	770	955
diameter	28"	28"
rim material	alu	alu
rim section: height/width – mm (nominal)	24/20	24/20
type of rim		
asymmetrical holes		
requires rim tape	•	•
rim finishing	blk/sil	blk/sil
number of spokes	20	27/G3™
dynamic balance	•	•
spokes material	SS	SS
spoke type	AE DB	AE DB

Provided with FW body

Campagnolo®
9/10

Available as spare part

HG 10
only 10s sprockets of Shimano Inc.
starting from 11 and 12.

HG 8/9 of Shimano Inc.

FEATURES	BENEFITS
machined sides	➤ even, modulated and powerful braking
dynamic balancing	➤ greater stability at high speeds
variable section stainless steel aero spokes	➤ aerodynamic, weight savings, corrosion-proof
G3™ geometry	➤ greater lateral rigidity, maximum torque transmission
aluminium hub bodies	➤ weight savings and long fatigue life
sealed industrial bearings	➤ low friction, easy to change
monolithic FW body	➤ weight savings
locking with light-alloy Symmetric Action™ lever	➤ uniform and effective operation



differential spokes r/l		
Ultralinear™ geometry		
nut/nipple material	BR	BR
O.L.D. (mm)	100	130
hub body material	alu	alu
oversize hub axle	-	-
hub finishing	blk/sil	blk/sil
QR type	40	40
compatible (9/10)		9/10

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QUICK RELEASES: 20, 30, 40

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VENTO™

clincher

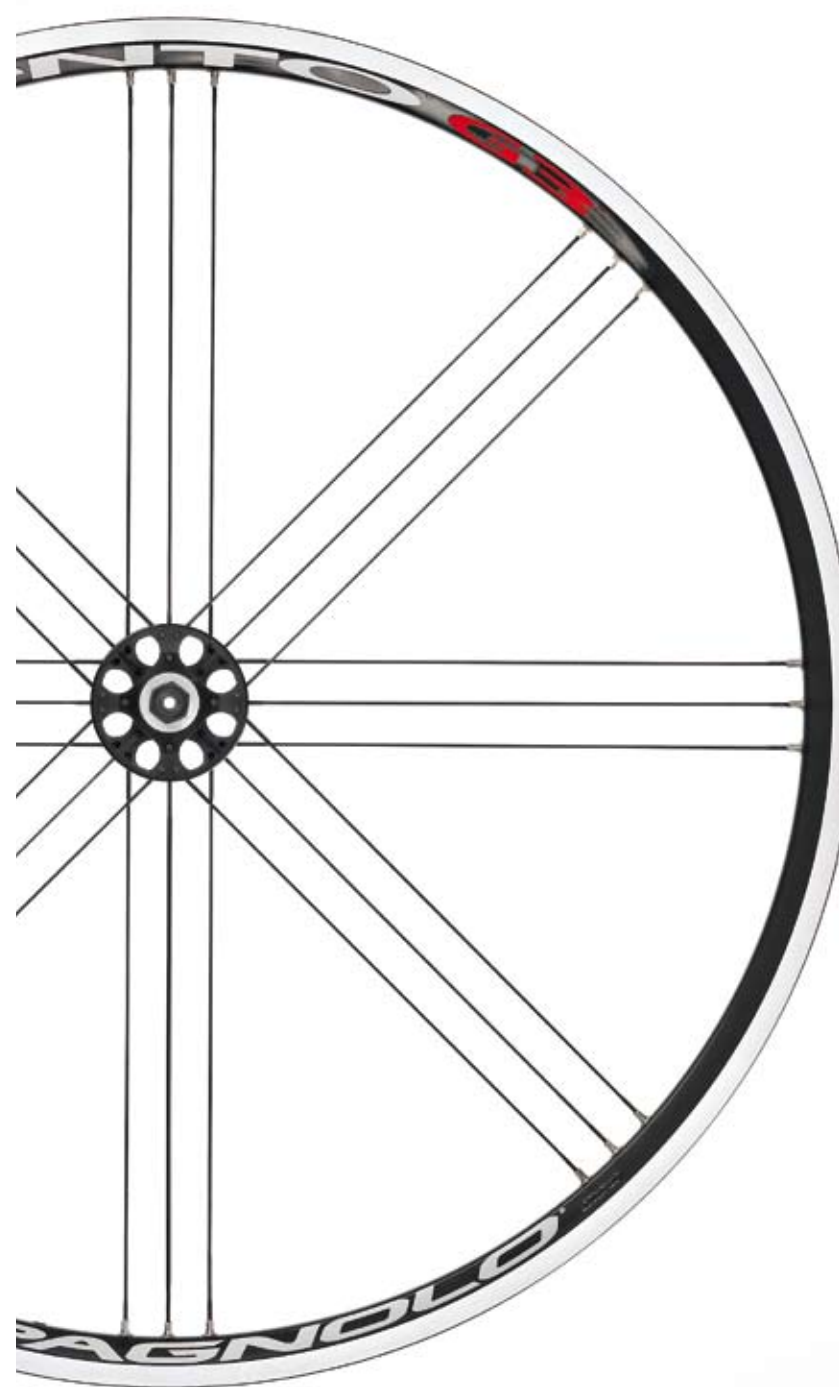
G3™

medium profile

A little classic of its type. The Vento™ is available in the original Silver colour with which it achieved its popularity, but also with a black finish. The Vento™ could not go without its G3™ spoking, even in the front wheel architecture.



black rear



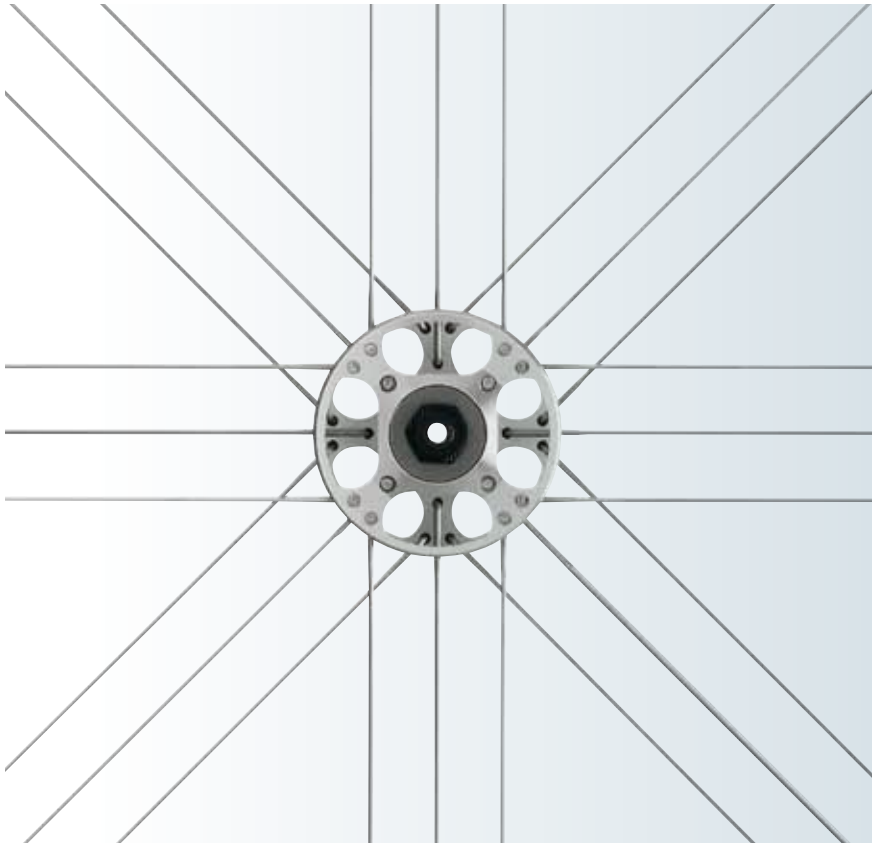
black front



silver rear



silver front



Provided with FW body

Campagnolo®
9/10

Available as spare part

HG 10
only 10s sprockets of Shimano Inc.
starting from 11 and 12.

HG 8/9 of Shimano Inc.

FEATURES	BENEFITS
machined sides	➤ even, modulated and powerful braking
dynamic balancing	➤ greater stability at high speeds
variable section stainless steel spokes	➤ weight savings, corrosion-proof
G3™ geometry	➤ greater lateral rigidity, maximum torque transmission
aluminium hub bodies	➤ weight savings and long fatigue life
sealed industrial bearings	➤ low friction, easy to change
monolithic FW body	➤ weight savings
locking with light-alloy Symmetric Action™ lever	➤ uniform and effective operation

new Symmetric Action™ releases
for Vento™ wheels



	front	rear
nominal weight (g)*	810	945
diameter	28"	28"
rim material	alu	alu
rim section: height/width – mm (nominal)	24/20	24/20
type of rim		
asymmetrical holes		
requires rim tape	•	•
rim finishing	blk/sil	blk/sil
number of spokes	24/G3™	27/G3™
dynamic balance	•	•
spokes material	SS	SS
spoke type	DB	DB
differential spokes r/l		
Ultralinear™ geometry		
nut/nipple material	BR	BR
O.L.D. (mm)	100	130
hub body material	alu	alu
oversize hub axle	-	-
hub finishing	blk/sil	blk/sil
QR type	40	40
compatible (9/10)		9/10

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QUICK RELEASES: 20, 30, 40

*The weight of the wheels does
not include the quick release.



KHAM SIN™

clincher

Designed with particular regard to the quality-price ratio, Khamsin™ wheels never pass unnoticed with their special G3™ spokes and optional Gold finish.



black rear



black front



gold rear.



gold front



	front	rear
nominal weight (g)*	855	1040
diameter	28"	28"
rim material	alu	alu
rim section: height/width – mm (nominal)	24/20	24/20
type of rim		
asymmetrical holes		
requires rim tape	•	•
rim finishing	blk/gold	blk/gold
number of spokes	24/G3™	27/G3™
dynamic balance		
spokes material	SS	SS
spoke type		
differential spokes r/l		
Ultralinear™ geometry		
nut/nipple material	BR	BR
O.L.D. (mm)	100	130
hub body material	alu	alu
oversize hub axle	-	-
hub finishing	blk/gold	blk/gold
QR type	40	40
compatible (9/10)		9/10

Provided with FW body

Campagnolo®
9/10

Available as spare part

HG 10
only 10s sprockets of Shimano Inc.
starting from 11 and 12.

HG 8/9 of Shimano Inc.

FEATURES	BENEFITS
machined sides	➤ even, modulated and powerful braking
dynamic balancing	➤ greater stability at high speeds
stainless steel spokes	➤ weight savings, corrosion-proof
G3™ geometry	➤ greater lateral rigidity, maximum torque transmission
aluminium hub bodies	➤ weight savings and long fatigue life
sealed industrial bearings	➤ low friction, easy to change
monolithic FW body	➤ weight savings
locking with light-alloy Symmetric Action™ lever	➤ uniform and effective operation

new Symmetric Action™ releases
for Khamsin™ wheels



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QUICK RELEASES: 20, 30, 40

*The weight of the wheels does
not include the quick release.



BORA™ ULTRA™

tubular

The mandatory choice for the maximum aerodynamic performance in time trials, especially those in which there is a side wind, and in triathlon. The 50 mm side ensures all the necessary rigidity.



rear



front



Provided with FW body

Campagnolo® 9/10
Or
HG 10
**only 10s sprockets of Shimano Inc. starting from 11 and 12.

Available as spare part

HG 8/9 of Shimano Inc.



FEATURES	BENEFITS
hollow 50 mm carbon rim	➤ light, aerodynamic, fatigue life
differentiated spokes	➤ optimized weight/performance ratio
variable section stainless steel aero spokes	➤ weight savings, aerodynamic
Ultralinear™ geometry	➤ maximum spoke life, rigidity of the structure
nut-plate system with ball coupling	➤ self-orienting, optimum load distribution
self-locking nuts	➤ prevention of spoke tension loss
dynamic balancing	➤ greater stability at high speeds
rear hub with oversize right-hand flange	➤ maximum torque transmission
carbon hub bodies	➤ maximum weight savings and long fatigue life
aluminium right-hand rear flange	➤ rigidity, maximum torque transmission
cup and cone bearings	➤ low friction, adjustable, easy to maintain
4x15 balls 5/32" in Grade 10 stainless steel	➤ excellent bearing low friction and life
"ceramic ready" bearings	➤ the Grade 3 ceramic ball bearing kit, available as an optional accessory, can be fitted without modifications
standardised front-rear bearings	➤ handy maintenance
monolithic FW body	➤ weight savings
oversize light-alloy axles	➤ weight savings and rigidity
locking with light-alloy lever housing and Symmetric Action™ light-alloy lever	➤ weight savings, uniform and effective operation
special brake pads	➤ maximum modulability on dry and wet surfaces



	front	rear	rear HG
nominal weight (g)*	565	740	745
diameter	28"	28"	28"
rim material	carb	carb	carb
rim section: height/width – mm (nominal)	50/20	50/20	50/20
type of rim	-	-	-
asymmetrical holes			
requires rim tape	-	-	-
rim finishing	carb	carb	carb
number of spokes	18	21/G3™	21/G3™
dynamic balance	•	•	•
spokes material	SS	SS	SS
spoke type	AE DB	AE DB	AE DB
differential spokes r/l			
Ultralinear™ geometry			
nut/nipple material	alu	alu	alu
O.L.D. (mm)	100	130	130
hub body material	carb	carb	carb
oversize hub axle	•	•	•
hub finishing	carb	carb	carb
QR type	20	20	20
compatible (9/10)		9/10	10**

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QUICK RELEASES: 20, 30, 40

*The weight of the wheels does not include the quick release.

GHIBLI™

tubular

The preferred rear wheel in time trials, the disc wheel par excellence. The profile in lens form in a single structure has shown itself to be the best choice a chronoman can make to increase aerodynamic penetration.



high profile

FEATURES	BENEFITS
Road	
aramidic fibre tensile structure	➤ maximum strength and long fatigue life
disc profile	➤ maximum aerodynamic penetration
braking surface in aluminium	➤ high braking performance with standard pads
aluminium hub bodies	➤ weight savings and long fatigue life
cup and cone bearings	➤ low friction, adjustable, easy to maintain
4x15 balls 5/32" in Grade 10 stainless steel	➤ excellent bearing low friction and life
"ceramic ready" bearings	➤ the Grade 3 ceramic ball bearing kit, available as an optional accessory, can be fitted without modifications
standardised front-rear bearings	➤ handy maintenance
monolithic FW body	➤ weight savings
oversize light-alloy axles	➤ weight savings and rigidity
locking with light-alloy lever housing and Symmetric Action™ light-alloy lever	➤ weight savings, uniform and effective operation
Track	
aramidic fibre tensile structure	➤ maximum strength and long fatigue life
disc profile	➤ maximum aerodynamic penetration
aluminium hub bodies	➤ weight savings and long fatigue life
cup and cone bearings	➤ low friction, adjustable, easy to maintain
steel track axles	➤ weight savings and rigidity

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BR = Brass
QUICK RELEASES: 20, 30, 40

	front track	rear road	front track	rear track
nominal weight (g)*	860	995	955	995
diameter	26"	28"	28"	28"
rim material	alu	alu	alu	alu
rim section: height/width – mm (nominal)	D/19	D/19	D/19	D/19
type of rim	-	-	-	-
asymmetrical holes				
requires rim tape	-	-	-	-
rim finishing	-	-	-	-
number of spokes	-	-	-	-
dynamic balance	-	-	-	-
spokes material	Aramide	Aramide	Aramide	Aramide
spoke type	-	-	-	-
differential spokes r/l	-	-	-	-
Ultralinear™ geometry				
nut/nipple material	-	-	-	-
O.L.D. (mm)	100	132	100	120
hub body material	alu	alu	alu	alu
oversize hub axle		•		
hub finishing	-	-	-	-
QR type	-	20	-	-
compatible (9/10)				
requires special sprocket set		•		

*The weight of the wheels does not include the quick release.

PISTA™
tubular

A noble and fascinating specialty with an exclusively specific feature: the transformation of the explosive power of the quadriceps of top track cyclists into pure speed, with the minimum possible waste of energy.

high profile



FEATURES	BENEFITS
aero aluminium rim	➤ aerodynamic, rigidity
aero stainless steel spokes	➤ rigidity, aerodynamic
nut-plate system with ball coupling	➤ self-orienting, optimum load distribution
self-locking nuts	➤ prevention of spoke tension loss
track hubs with steel axle	➤ rigidity

	front	rear
nominal weight (g)*	995	1110
diameter	28"	28"
rim material	alu	alu
rim section: height/width – mm (nominal)	38/20	38/20
type of rim		
asymmetrical holes		
requires rim tape	-	-
rim finishing	black	black
number of spokes	20	24
dynamic balance		
spokes material	SS	SS
spoke type	AE	AE
differential spokes r/l		
Ultralinear™ geometry		
nut/nipple material	alu	alu
O.L.D. (mm)	100	120
hub body material	alu	alu
oversize hub axle		
hub finishing	black	black
QR type	20	20
compatible (9/10)		



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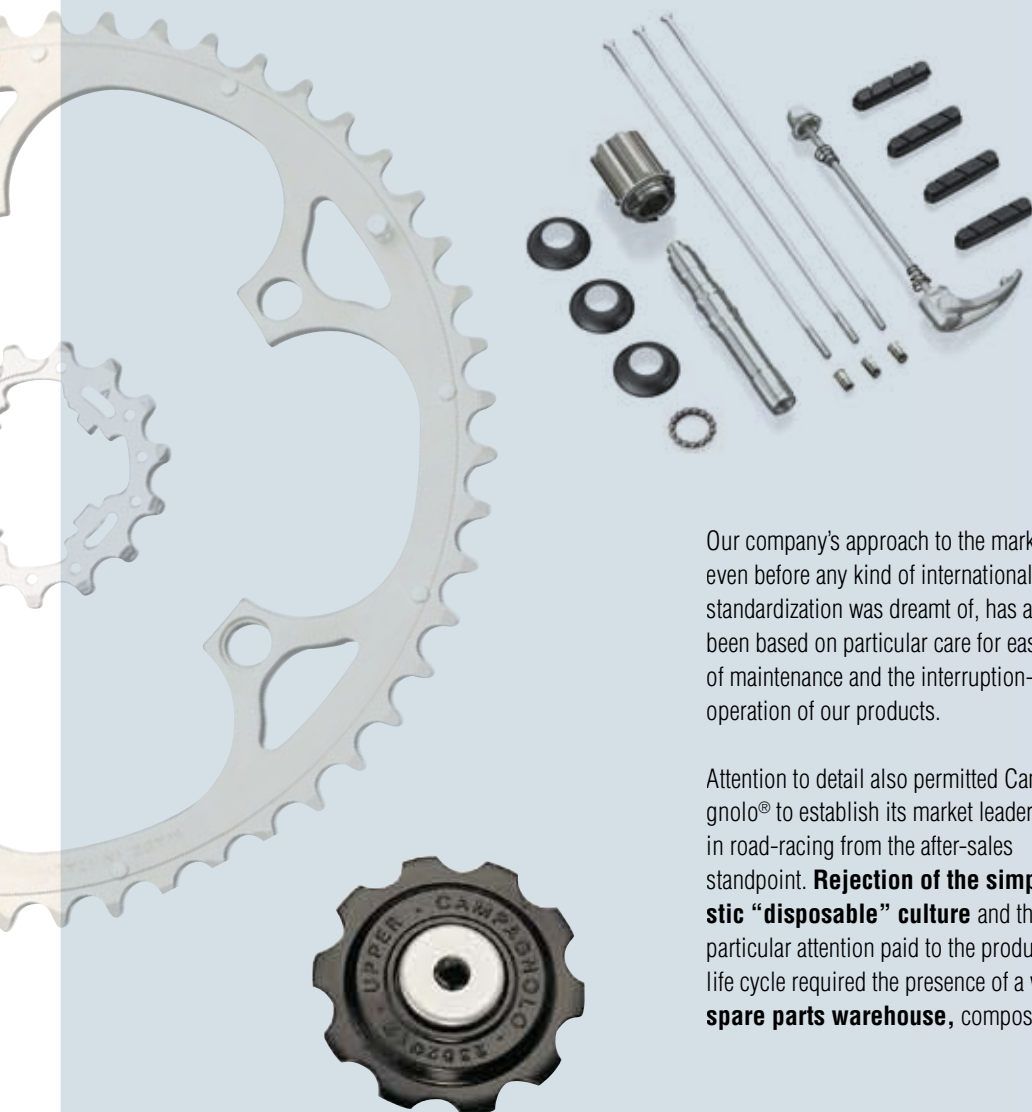
BR = Brass

QUICK RELEASES: 20, 30, 40

*The weight of the wheels does not include the quick release.

Campagnolo®, built to last over time

Campagnolo® components are made to last. Compliance with severe inspection tests which certify their performance over time and the support of a wide range of available spares in our global service network mean products that guarantee many years of pleasurable cycling.



Our company's approach to the market, even before any kind of international standardization was dreamt of, has always been based on particular care for ease of maintenance and the interruption-free operation of our products.

Attention to detail also permitted Campagnolo® to establish its market leadership in road-racing from the after-sales standpoint. **Rejection of the simplistic "disposable" culture** and the particular attention paid to the product's life cycle required the presence of a **vast spare parts warehouse**, composed

of 1,800 product codes, as well as the provision of a **global service network** to ensure the perfect operation of Campagnolo® groupsets with the passage of time.

In many cases the **spare parts are available for many years**, especially with regard to components and groupsets with a wide market distribution.

Another example that clearly testifies to the application of our philosophy of attention to the product's life cycle is provided by the Ergopower™ control.

The mechanism of our Ergopower™ is easily accessible – to specialized personnel obviously – for maintenance operations and for the replacement of mechanical parts when necessary. This possibility notably extends the product's life cycle and ensures that it works perfectly over the years.

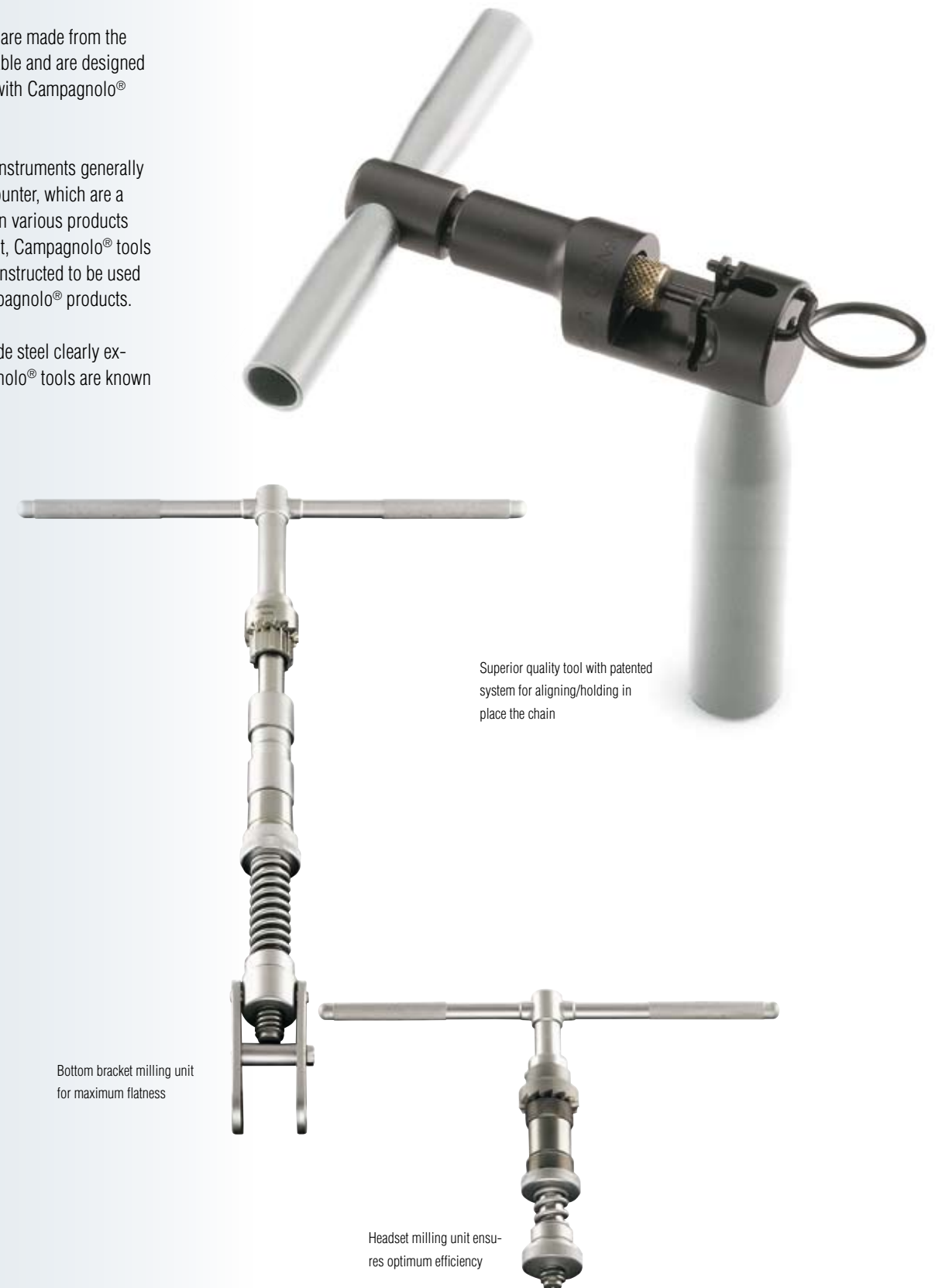
Furthermore, what distinguishes a Campagnolo® component is not just the possibility of intervening extensively on its maintenance, but the fact that it exceeds all the safety requirements in accordance with the test methods contained in the new European UNI EN 14781 standards. Among these we would like to recall those very important ones carried out to simulate a component's fatigue life, namely the number of stresses it can sustain without breaking or being deformed. **Campagnolo® components consistently exceed these tests**, often going far beyond the limits set by the standards, and record **long-term performance levels** that not everyone can boast of.

Campagnolo® Tools

Campagnolo® tools are made from the best materials available and are designed specifically for use with Campagnolo® components.

Unlike the working instruments generally available over the counter, which are a compromise between various products offered by the market, Campagnolo® tools are designed and constructed to be used specifically on Campagnolo® products.

The use of high-grade steel clearly explains why Campagnolo® tools are known to last forever.



Superior quality tool with patented system for aligning/holding in place the chain

Bottom bracket milling unit for maximum flatness

Headset milling unit ensures optimum efficiency

1. OBJECT

Campagnolo S.r.l., Via della Chimica 4, 36100 Vicenza, Italy (hereinafter “Campagnolo”), guarantees its products to be free from defects in materials or workmanship within the terms and conditions of this Limited Warranty. If a product is found by Campagnolo to be defective, it will be repaired or replaced, at the option of Campagnolo, free of charge, by an authorized Campagnolo® Service Center of the nation where the retail sale occurred (please make sure that after-sales service is available before making a purchase).

Please note that in addition to this policy you may have specific legal rights granted by your national or state laws regarding warranties of consumer products.

2. NOT COVERED

This warranty does not cover: A) products without a legitimate invoice or sales receipt, because the date and place of retail sale cannot be determined and because they may be of illegal or illicit origin (stolen, smuggled, sold in violation of fiscal laws etc); B) products whose identification markings have been removed (serial numbers, lot numbers, product code etc); C) products which reached the end of their normal lifespan; D) damage resulting from accidents, alteration, neglect, misuse or abuse, lack of reasonable or proper maintenance, corrosion, improper assembly, repairs improperly performed or replacement parts improperly installed, use of non-compatible replacement parts or accessories, use with non-compatible components, modifications not recommended or approved in writing by Campagnolo, normal wear and deterioration occasioned by the use of the product, commercial use; E) cosmetic imperfections in the surface, finish, or appearance of the product which were apparent or discoverable at the time of purchase of the product; F) damage occurring during shipment or transport of the product; G) lubricants, brake pads, and other consumables; H) any expenses related to the transportation of the product to or from an authorized Campagnolo® Service Center; I) labor costs to remove the product from the bicycle; J) compensation for inconvenience or loss of use while the product is being repaired or replaced; K) products sold in other nations (please contact the service centers of those nations).

3. PURCHASER

This warranty is made only with the original purchaser of the product and does not extend to any third parties. The rights of the Purchaser under this warranty may not be assigned.

4. TERM

The term of this warranty (2 or 3 years) is specified in the printed copy supplied with the product and shall commence on the date of retail purchase.

5. ENTIRE AGREEMENT

This warranty supersedes any and all oral, express or written warranties, statements or undertakings that may previously have been made, and contains the entire Agreement of the parties with respect to the warranty of this product. Any and all warranties not contained in this Agreement are specifically excluded.

6. DAMAGES

Except as expressly provided by this warranty, Campagnolo **SHALL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES ASSOCIATED WITH THE USE OF THE PRODUCT OR A CLAIM UNDER THIS AGREEMENT, WHETHER THE CLAIM IS BASED ON CONTRACT, TORT OR OTHERWISE.**

The foregoing statements of warranty are exclusive and in lieu of all other remedies. Some states do not allow the exclusion or limitation of incidental or consequential damages, so this limitation or exclusion may not apply to you.

7. DISCLAIMER

ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE AND ALL IMPLIED WARRANTIES ARISING FROM A COURSE OF DEALING, USAGE OF TRADE, BY STATUTE OR OTHERWISE, IS HEREBY STRICTLY LIMITED TO THE TERM OF THIS WRITTEN WARRANTY. This agreement shall be the sole and exclusive remedy available to the Purchaser with respect to this purchase. In the event of any alleged breach of any warranty or any legal action brought by the purchaser based on alleged negligence or other tortuous conduct by Campagnolo, the Purchaser's sole and exclusive remedy will be repair or replacement of defective materials as stated above. No dealer and no other agent or employee of Campagnolo is authorized to modify, extend or enlarge this warranty. The performance of any warranty service under this Agreement is not an admission or agreement that the design or manufacture of a product is defective.

8. PROCEDURE

In the event of a defect covered by this warranty, the purchaser should contact an authorized Campagnolo® Service Center of the nation where the retail sale occurred (authorized Service Centers are listed in the catalogues and in our web-site www.campagnolo.com). To be honoured, claims must be submitted within the warranty period and within eight days of discovery of the defect. The determination whether the defect is covered by this warranty is within the sole discretion of Campagnolo. Campagnolo reserves the right to discontinue products and to change specifications for existing products at any time without notice and shall not be obligated to incorporate new features into products previously sold, even if those products are returned under a warranty claim.

Campagnolo may replace defective products with similar products in the event that identical products are unavailable. The purchaser must obtain a return authorization number before returning any product to a Campagnolo® Service Center for warranty inspection. The number must appear on the outside of the product's packaging. The issuance of an authorization number does not constitute acceptance of the claim, which will be evaluated by the Service Center upon its inspection of the product. The product complete in all its parts should be cleaned (dirty products will not be handled/inspected) and securely packed to prevent damage during shipment and must be accompanied by:

- A** dated invoice or receipt for proof of date and place of retail sale;
- B** detailed description of the problem experienced with the product;
- C** a chronological list of the efforts made to correct the problem;
- D** list of the components used in conjunction with the product;
- E** estimated mileage;
- F** your name, address, phone numbers and e-mail;
- G** a specific request if you want that after the handling of the claim your personal data is not preserved for future reference.

9. APPLICABLE LAW

Any disputes arising out of this Agreement or the use of this product will be governed by the laws of the country of Italy and will be decided by the Courts of Vicenza, Italy.

10. AVVERTENZA

Always install, repair and use your product in strict compliance with the product's instructions, which are also available as a downloadable file from our web site **www.campagnolo.com**. Failure to do so might damage the products and cause a serious accident.

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 assi-

stance for products under guarantee or otherwise, enabling cyclists to enjoy the first-class characteristics of Campagnolo® products for long, without forfeiting safety, performance and endurance. The Spare Parts Service handles the distribution of spare parts. Campagnolo® possesses a large inventory of spare parts and is able to replenish its distribution system adequately in relatively short times.

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

ITALY - Central Service Center

CAMPAGNOLO SRL HEADQUARTERS
Via della Chimica, 4 - 36100 VICENZA
Tel. +39-0444-225605
Fax +39-0444-225606
E-mail: service@campagnolo.com

AUSTRALIA

CYCLING PROJECTS
Shop 1 - 86 King Street
NSW 2193 Ashbury
Tel. +61-2-97992407
Fax +61-2-97992107

AUSTRIA - GERMANY

CAMPAGNOLO DEUTSCHLAND GMBH
Alte Garten 62
51371 LEVERKUSEN
Tel. +49-214-206953-20
Fax +49-214-206953-15

BENELUX

INTERNATIONAL CYCLE CONNECTION I.C.C.
Handelspoort, 3A
4538 BN TERNEUZEN
Netherlands
Tel. +31-115-649321
Fax +31-115-649110

CANADA

CYCLES MARINONI INC
1067, Levis - LACHENAIE
QUEBEC J6W 4L2
Tel. +1-450-4717133
Fax +1-450-4719887

GREAT WESTERN BICYCLE CO. LTD.
232 West 7th Ave.
VANCOUVER, BC V5Y 1M1
Tel. +1-604-8722424
Fax +1-604-87202226

CZECH REPUBLIC

KOLA SIRER
V Plzenske Brane 1
26601 BEROUN
Tel. 00420 311 621355
Fax 00420 311 625492

DENMARK - FINLAND - NORWAY - SWEDEN

MARKER SCANDINAVIA
Ledreborg Alle 10 - DK-4320 Lejre
DENMARK
Tel. +45-70228075
Fax +45-46498088

FRANCE

CAMPAGNOLO FRANCE EURL
ZA du Tissot
42530 St Genest - Lerpt
Tel. +33-477-556305
Fax +33-477-556345

GREECE

CYCLES FIDUSA - GIORGIO VOYATZIS & CO.
Th. Sofuli 97
85100 Rhodos
Tel. +30-2241 021264
Fax +30-2241 021519

ISRAEL

AMIT LEVINSON LTD
25 Sheshet Hayamim Str. - Qiryat Haim
POB 252 ZIP 26101
Tel. +972-4-8405649
Fax +972-4-8423913

JAPAN

CAMPAGNOLO JAPAN LTD
65 Yoshida-cho, Naka-ku, Yokohama
231-0041 JAPAN
Phone: +81-45-264-2780
Fax: +81-45-241-8030

KOREA

COMET BICYCLE ASSOCIATION
B1. 1015-3 Sinjungdong
Yangchungu, SEOUL Tel. +82-2-26421764
Fax +82-2-26421765

NEW ZEALAND

WH WORRALL CO. LTD.
43 Felix St./Penrose - P.O. Box 12481
Auckland
Tel. +64-9-6360641
Fax +64-9-6360631

SINGAPORE

TRIMEN VENTURES PTE LTD
705 Sims Drive
#01-16 Shun Li Industrial Complex
Singapore 387384
Tel: +65 6354 3030
Fax: +65 6354 3020

SPAIN

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

SLOVAC REPUBLIC

ZANZO S.R.O.
Kysucky Lieskovec 421
02334 BRATISLAVA
Tel. 00421 245 523721
Fax 00421 245 249404

SOUTH AFRICA

CYCLING J&J (PTY) LTD.
169 Meerlust Street - Willow Glen PRETORIA
Tel. +27-012-8075570
Fax +27-012-8074267

SWITZERLAND

SWISSBIKE PIERO ZURINO GMBH
Pilatusstr. 4 - 6036 Dierikon
Tel. +41-41-7485550
Fax +41-41-7485551

U.G.D. SPORT DIFFUSION S.A.

La Taille - 2053 CERNIER
Tel. +41-32-8536363
Fax +41-32-8536464

UNITED KINGDOM

ITALIAN CYCLE PRODUCTS LIMITED
Unit 3, Napoleon Business Park
Wheterby Road - DERBY - DE24 8HL
Tel. +44-01332-371176
Fax +44-01332-371179

UNITED STATES

CAMPAGNOLO NORTH AMERICA INC.
5431 Avenida Encinas, Suite C
CARLSBAD CA 92008
Tel. +1-760-9310106
Fax +1-760-9310991

OCHSNER INT. INC
246 E. Marquardt Drive - WHEELING
IL. 60090-6430
Tel. +1-847-4658200
Fax +1-847-4658282

QUALITY BIC. PRODUCTS
6400 W. 105th Street
BLOOMINGTON, MN 55438-2554
Tel. +1-952-9419391
Fax +1-952-9419799

THE HAWLEY COMPANY, INC.
1181 South Lake Drive
Lexington, SC 29073-7744
Tel. +1-803.359.3492 x 192
Fax +1-803.359.1343

ITALY

CAMPAGNOLO S.R.L.
Via della Chimica, 4
36100 Vicenza - ITALY
Phone: +39-0444-225500
Fax: +39-0444-225400

FRANCE

CAMPAGNOLO FRANCE EURL
ZA du Tissot - 42530 St Genest - Lerpt
FRANCE
Phone: +33-477-556305
Fax: +33-477-556345

GERMANY

CAMPAGNOLO DEUTSCHLAND GMBH
Alte Garten 62
51371 Leverkusen - GERMANY
Phone: +49-214-206953-0
Fax: +49-214-206953-15

JAPAN

CAMPAGNOLO JAPAN LTD
65 Yoshida-cho, Naka-ku, Yokohama
231-0041 JAPAN
Phone: +81-45-264-2780
Fax: +81-45-241-8030

SPAIN

CAMPAGNOLO IBERICA S.L.
Avda. de Los Huetos 46. pab. 3-2ª fila
01010 Vitoria - SPAIN
Phone: +34-945-217195
Fax: +34-945-217198

UNITED STATES

CAMPAGNOLO NORTH AMERICA INC.
5431 Avenida Encinas, Suite C -
CARLSBAD CA 92008 - U.S.A.
Phone: +1-760-9310106
Fax: +1-760-9310991

Agencies:**AUSTRALIA**

CYCLING PROJECTS
Shop 1 - 86 King Street
NSW 2193 Ashbury - AUSTRALIA
Tel. +61-2-97992407
Fax +61-2-97992107

BENELUX

INTERNATIONAL
CYCLE CONNECTION I.C.C.
Handelspoort 3A
4538 BN Terneuzen
NEDERLAND
Tel. + 31 (0)115 649321
Fax + 31 (0)115 649110

EAST EUROPE

FIRMA GALLIZIA
10. Oktoberstrasse 7 - 9800
Spittal/Drau AUSTRIA
Tel. +43-4762/2275
Fax +43-4762/2275

DENMARK - SWEDEN - NORWAY- FINLAND

MARKER SCANDINAVIA
Ledreborg Alle 10 - DK-4320 Lejre
DENMARK
Tel. +45-70228075
Fax +45-46498088

SOUTH AMERICA AND MEXICO

GEORGE PANARA
Sao Paulo - BRASIL
Tel.: +55 11 4436 9123
Fax: +55 11 4436 12 13

TAIWAN, MAINLAND CHINA, VIETNAM

COLMAX INTERNATIONAL LTD
No. 42, Alley 30, Lane 300
Section 2, Jhong Hwa S. Road
Tainan 702, TAIWAN
Tel. +886-6-265 6001
Fax +886-6-265 1388

UNITED KINGDOM

SELECT CYCLE COMPONENTS
The White House
Main Street
NEWTON NI13 8HN - ENGLAND
Tel. +44-0780260628
Fax +44-1949-829039

Service and technical information:**ITALY (CENTRAL)**

Technical Information
Phone: +39-0444-225600
Fax: +39-0444-225400
Service Center
Phone: +39-0444-225605
Fax: +39-0444-225606

FRANCE

Phone: +33-477-554449
Fax: +33-477-556345

GERMANY

Phone: +49-214-206953-20
Fax: +49-214-206953-15

SPAIN

Phone: +34-945-217195
Fax: +34-945-217198

U.S.A.

Phone: +1-760-9310106
Fax: +1-760-9310991

CAMPAGNOLO S.R.L.
Via della Chimica, 4
36100 Vicenza - ITALY
Phone: +39-0444-225500
Fax: +39-0444-225400
www.campagnolo.com

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Dear Friend,
We have tried to be precise but would like to apologize for any mistakes that there might be in this catalogue. We must also point out that we reserve the right to change products, surface finish and specifications at any moment without prior notice. For further information, please visit our site **www.campagnolo.com**, which is regularly updated.

WARNING!
The theories covering rear derailleurs lose value when applied to real-life situations. This is due to a certain number of variables that are beyond our control. The first variable is that the chain can only be lengthened or shortened by two links at a time (106/108/110 etc.), making it impossible for the optimal length to be achieved for each frame. As a result, each time a choice is made, this shall have to be a compromise based on the technical specifications of the chainwheels, front derailleurs and frame dimensions. Further, while emphasising that the relationships between the geometries and dimensions specified by ourselves in accompanying instructions must be observed, the size and geometry of each cage influence the functionality of the various rear derailleur combinations greatly. For this reason the combinations listed in the table below are to be considered merely indicative and must be verified each and every time, depending on the frame on which the components shall actually be mounted.

RECOMMENDED COMBINATIONS

- Double or CT™ crankset + short cage rear derailleur: all Campagnolo® sprocket sets except the 13-29
- Double or CT™ crankset + medium cage rear derailleur: all Campagnolo® sprocket sets*
- Triple crankset + medium cage rear derailleur: all Campagnolo® sprocket sets except the 13-29 set
- Triple crankset + long cage rear derailleur: all Campagnolo® sprocket sets*

* if compact sprocket sets are used (e.g. 11-23) it may be necessary to keep the chain length shorter than the values indicated in standard assembly instructions.

Campagnolo®, Campy™, Record™, Chorus™, EPS™, CT™, Centaur™, Veloce™, Mirage™, Xenon™, Hyperon™, Neutron™, Proton™, Eurus™, Zonda™, Scirocco™, Vento™, Bora™, Ghibli™, Pista™, Khamsin™, Shamal™, Time Trial™, Ergobrain™, 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™, C10™, C9™, ED™, UD™, Ultra Narrow™, Ultra-Torque™, UT™, Ultra-Hollow™, Skeleton™, Quick Shift™, QS™, Escape Infinite™, Champ Triple™, Race Triple™, Comp Triple™, HPW™, G3™, Grouped Spokes™, DPRO™, Dual Profile™, Ultralinear-Geometry™, Ultralinear™, Differential rims™, Differential spokes™, Asymmetric™, Ultra™, Ultra Aero™, Full Carbon™, Multidirectional™, Unidirectional™, AC-H™, AC-S™, SC-S™, Big™, Miro™, Pro-Shop™, Tecnologia ed Emozione™, are Campagnolo Srl Trademarks.

