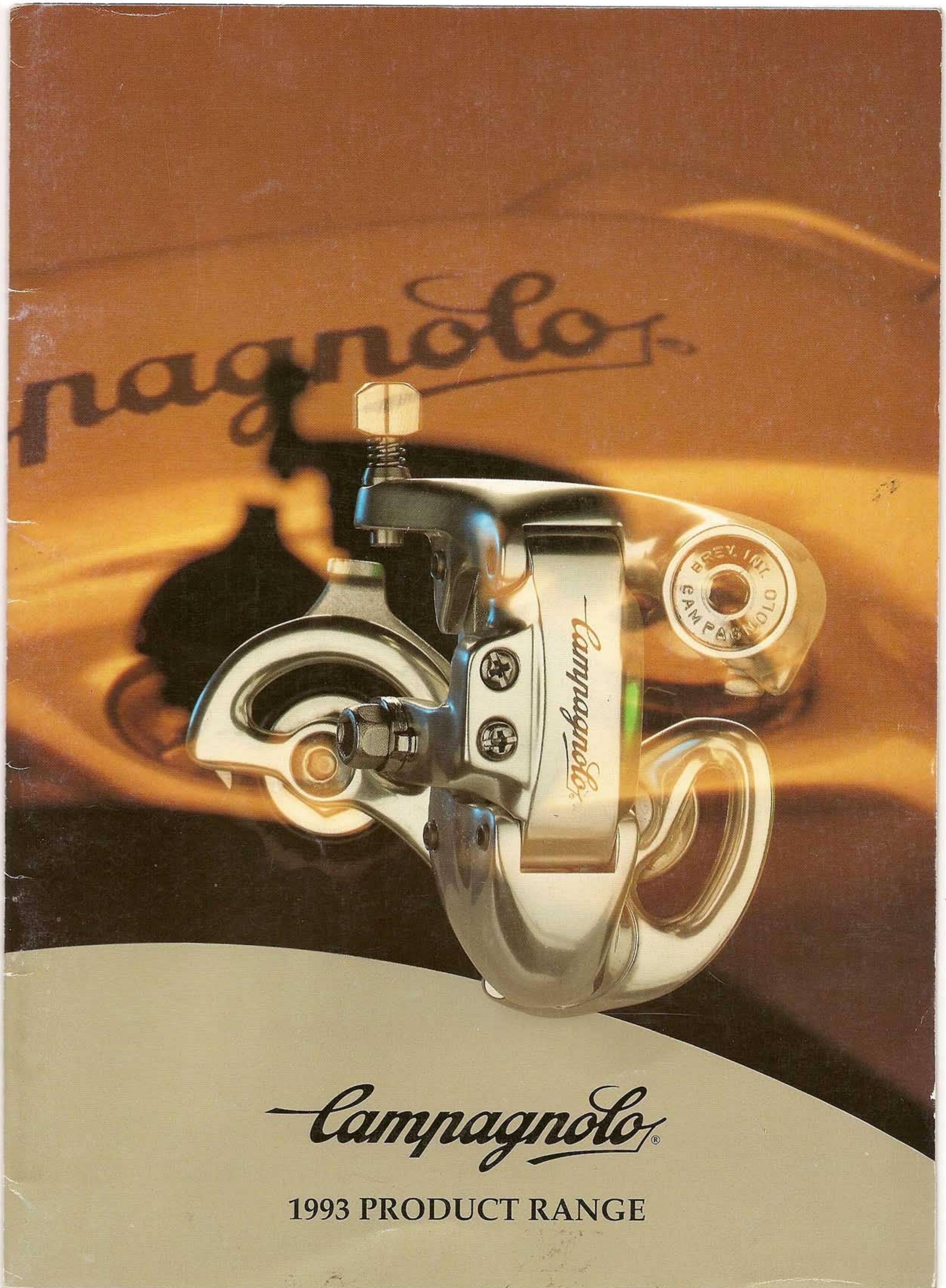
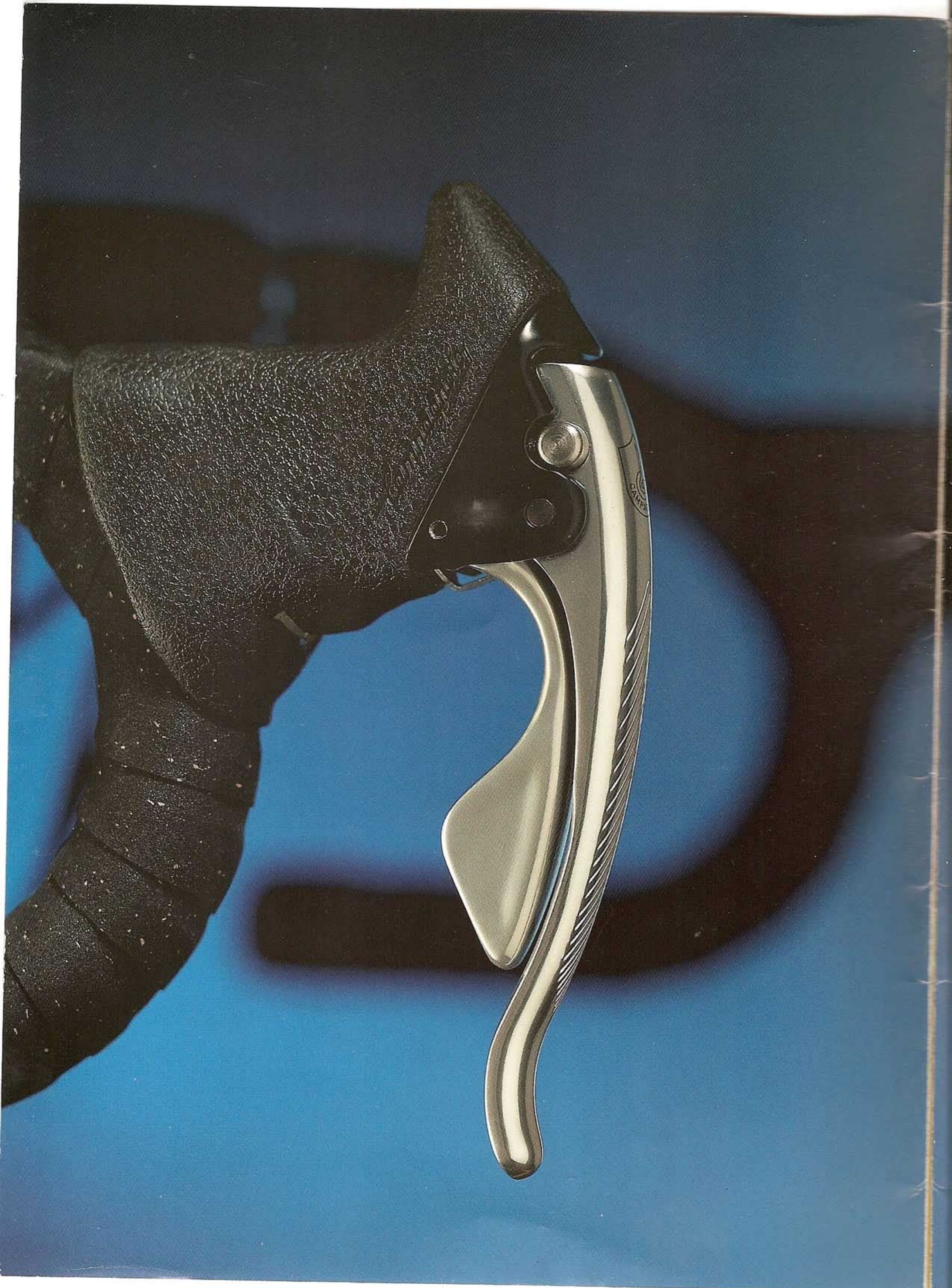
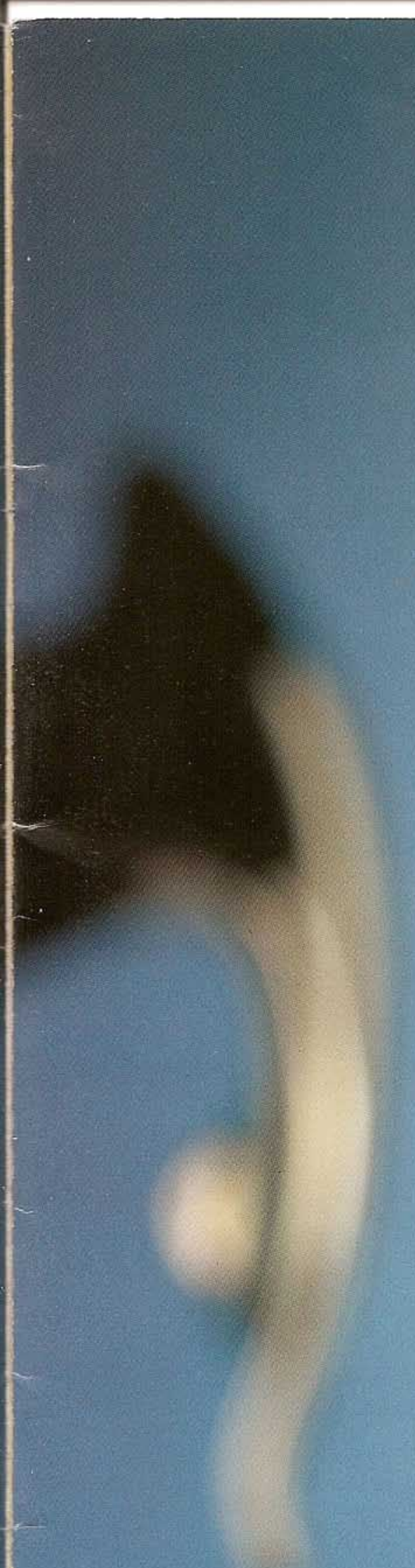


Campagnolo®

1993 PRODUCT RANGE





We have always been committed to designing and building the world's best racing components.

Our research is aimed at the interface where the athlete's movements are jointed to the bike.

We communicate with riders from all over the world every day to develop new solutions for the eternal aim: victory.

This is how all of our products come into being: this is how Ergopower was created.
Ergopower is the point of contact between thought and action, maintaining pedalling rhythm through precise and secure shifting.

We required the action to happen in a fraction of a second, leaving the hands on the handlebar with no need to be moved, so as not to break the elegance and power of pedalling.

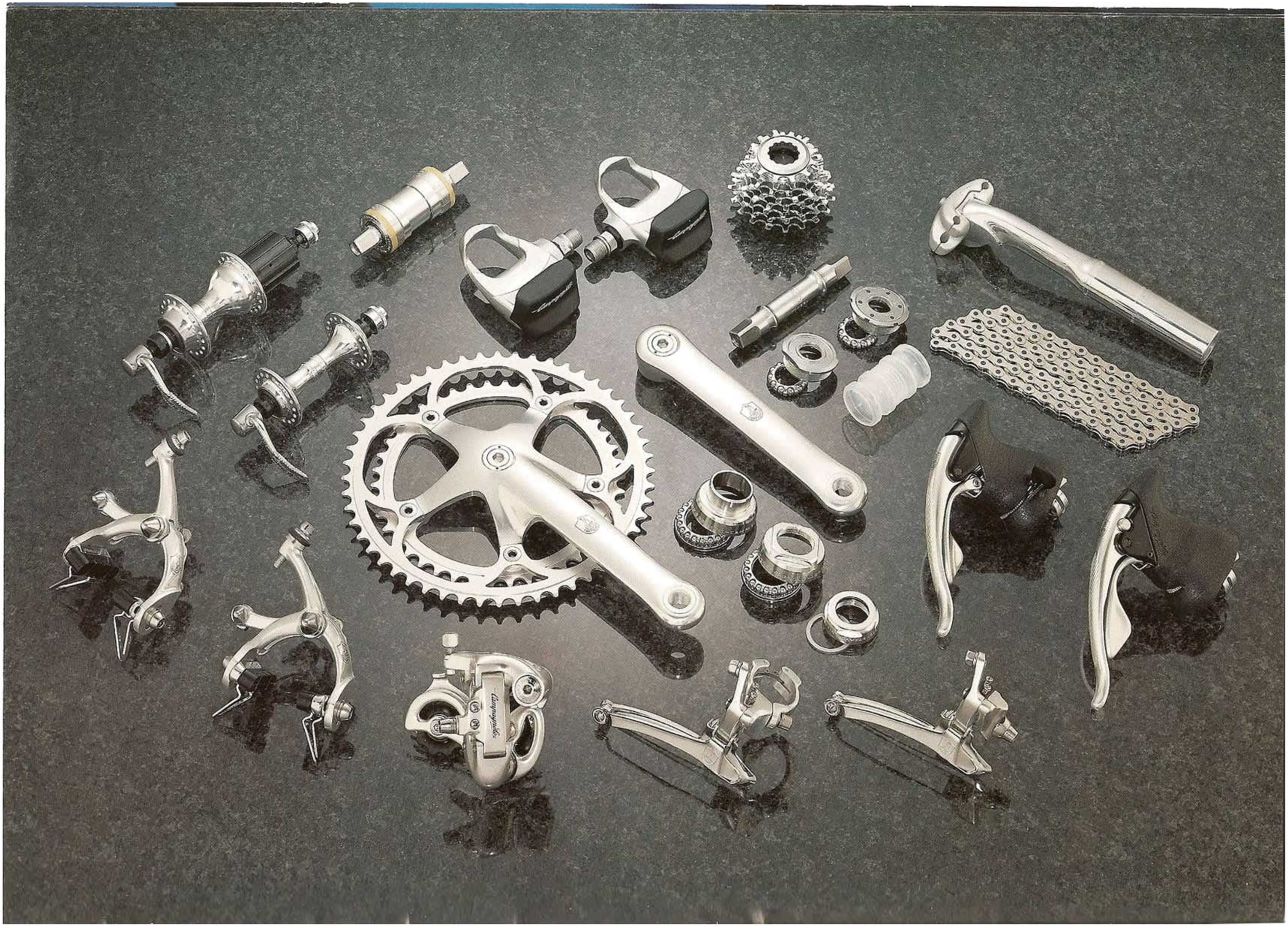
We have committed all our experience and technical skill to this control which revolutionizes the simple efficiency of racing on bikes

We have looked at 60 years racing experience of real riders
like you.


Campagnolo

GR-03RE RECORD GROUP

REAR DERAILLEUR RD-11RE		8-speed - maximum sprocket 26 teeth - total capacity 26 teeth	bodies and connecting rods forged in light alloy - rollers on adjustable ball bearings - connecting rods articulated on self-lubricating bushes
FRONT DERAILLEUR FD-11SRE	**FD-11FRE**	capacity: 14 teeth - maximum sprocket 56 teeth braze-on - clip-on Ø 28,6 mm	calibrated fork - high torsional rigidity
CRANKSET FC-01RE		crank lengths mm 165-167,5-170-172,5-175-177,5-180 inner chainring: 39-40-41-42 outer chainring: 52-53-54-55-56 distance between centres 135 mm - chain line 44 mm with 111 mm axle	crank in forged light alloy with fibre continuity - incorporated extractor - chainrings in aluminium alloy
BOTTOM BRACKET			
BB-01RE	**BB-03RE**	traditional, It. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical	balls 7/32" - aluminium cups with tracks in hardened steel - ground axle
BB-11RECART	**BB-13RECART**	cartridge, It. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical	double seal - assembly cups in aluminium alloy - Triple Bearing System - twin bearings RH side - two 0-rings
ERGOPOWER EC-12RE CG		8-speed indexed shifting lever - multi-position front derailleur control, also suitable for triple chainrings - progressive action brake control with quick release. Normal or flat adjustment blocks in aluminium	aluminium body with Rilsan treatment on mating parts - light alloy forged levers - ball-bearing movement - silicone rubber hood
SHIFTING LEVERS SL-01SRE CG		8-speed indexed shifting lever with adjuster - adjustable friction-type front derailleur control - M5 screw	anodized light alloy levers - sinterized insert
BRAKE LEVERS	**BL-02RE CG**	symmetrical control - internal cables - quick release	anodized aluminium lever - light alloy body - fast cable replacement
BRAKES BR-02RE		articulated parallelogram, progressive operation - central pull - rapid toe-in - height 37.6 + 55.9 mm	levers and bodies in anodized forged aluminium
FRONT HUB HB-00RE		spoke holes: 28-32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm - hole for fast lubrication - dust seals - braked lock nut	light alloy forged body - ground cups and cones - rolled bored axle
FREEHUB FH-00RE		spoke holes: 28-32-36, over lock dimensions 130 mm - centre bore Ø 44 mm chain line 42 (43 with spacer) - Campagnolo 8-speed cassette	light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings
FREEHUB SUPER RECORD	**FH-01SR**	spoke holes: 28-32-36, over lock dimensions 130 mm - centre bore Ø 44 mm chain line 42 (43 with spacer) - Campagnolo 8-speed cassette freewheel body in light alloy	light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings
SPROCKETS CS-8RE		first-position sprocket 11 to 16 teeth - 2,3,4,5,6,7 position from 13 to 26 teeth - 8th position sprocket from 23 to 26 teeth	special steel - Ni-Cr treatment - periodic profiles for rapid shifting
SPROCKETS SUPER RECORD	**CS-8SR**	sprockets in positions 2,3,4,5,6,7 and 8 with 13 to 24 teeth	light alloy - periodic profiles for rapid shifting
CHAIN	**CN-CA68S**	1/2"x3/32" narrow 8-speed - 116 links	super smooth links - riveted pentagonal pin
HEAD SET	**HS-01OR**	thread BC 1"x24tpi - overall height 41.5 mm (bottom 15.0 + 26.5 top)	Selform system - lubrication without disassembly - selected 3/16" balls
PEDALS	**PD22REQR** **PD-02RE**	quick release - thread 9/16"x20 tpi - length 14 mm traditional with S-M-L toe clip - Triple Bearing System	adjustable inspectionable cartridge - adjustable grip tension - double diagonal bearings
SEAT PILLAR	**SP-RE** **SP-RES**	length 180 mm Ø 25-26-26,2-26,4-26,6-26,8-27-27,2 mm length 130 mm Ø 25-25,8-26,2-26,6-26,8-27-27,2 mm	stem and brackets forged in light alloy
PLATE	**AI-00CD**	for beneath bottom bracket shell	QPQ treatment



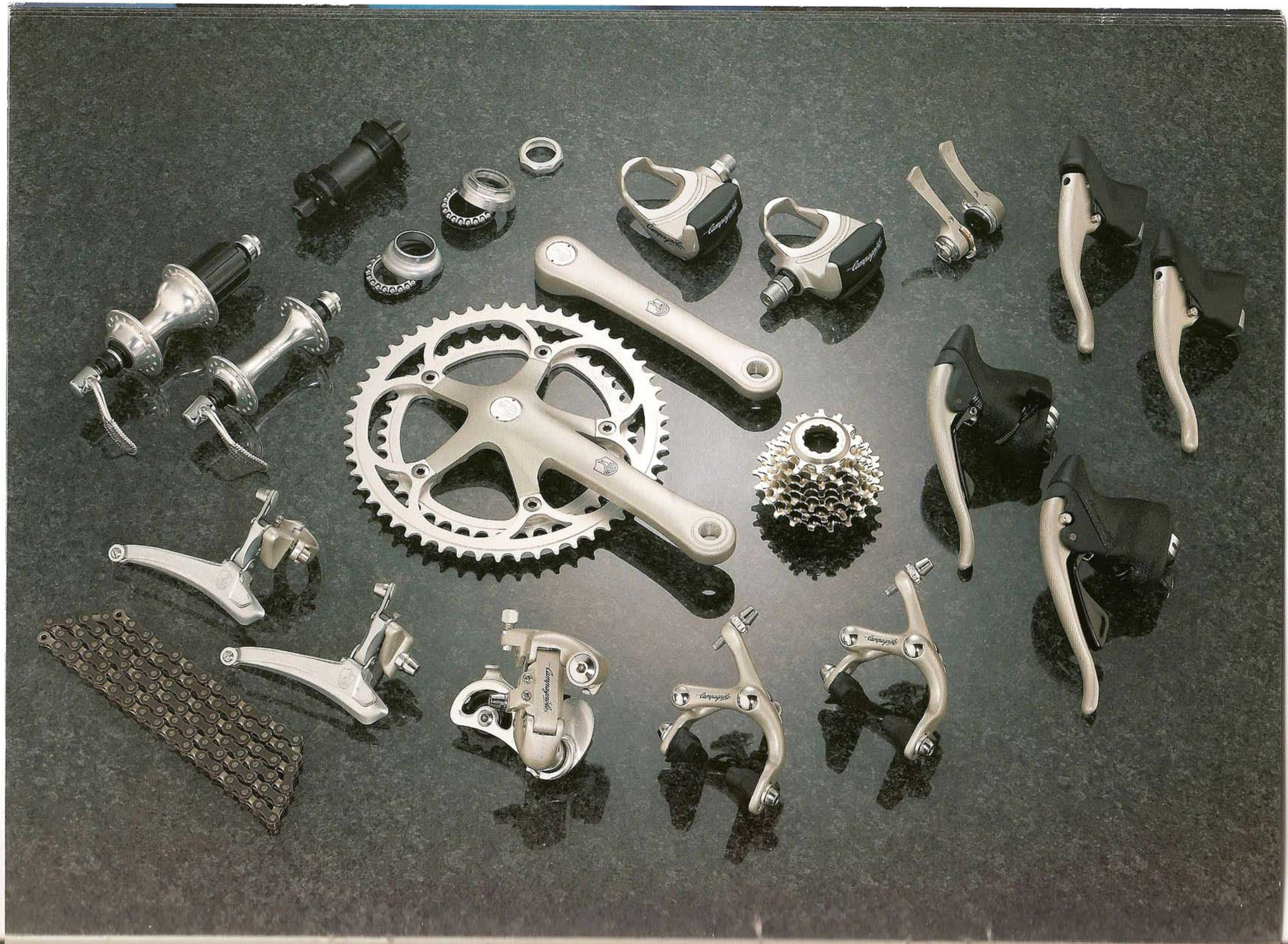
GR-03CH CHORUS GROUP

REAR DERAILLEUR RD-11CH		8-speed - maximum sprocket 26 teeth - total capacity 26 teeth	light alloy bodies and connecting rods - rollers on sinterized bushes - connecting rods articulated on self-lubricating bushes
FRONT DERAILLEUR		capacity: 14 teeth - maximum sprocket 56 teeth	light alloy body and connecting rods
FD-11SCH		braze-on	
FD-01FCH		clip-on Ø 28,6 mm	
FD-02FCH		adjustable clip-on Ø 29÷33 mm	
CRANKSET FC-01CH		crank lengths mm 170-172,5-175 inner chainring: 39-40-41-42 outer chainring: 52-53 distance between centres 135 mm - chain line 44 mm with 111 mm axle	crank in forged light alloy with fibre continuity - incorporated extractor - chainrings in aluminium alloy
BOTTOM BRACKET			
BB-01CH	**BB-03CH**	traditional, It. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical	balls 1/4" - hardened steel cups - ground axle
BB-11RECART - BB-13RECART		cartridge, It. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical	double seal - assembly cups in aluminium alloy - Triple Bearing System - twin bearings RH side - two 0-rings
ERGOPOWER EC-12RE CG		8-speed indexed shifting lever - multi-position front derailleur control, also suitable for triple chainrings - progressive action brake control with quick release. Normal or flat adjustment blocks in aluminium	aluminium body with Rilsan treatment on mating parts - light alloy forged levers - ball-bearing movement - silicone rubber hood
SHIFTING LEVERS SL-01SRE CG		8-speed indexed shifting lever with adjuster - adjustable friction-type front derailleur control - M5 screw	anodized light alloy levers - sinterized insert
BRAKE LEVERS	**BL-02RE CG**	symmetrical control - internal cables - quick release	anodized aluminium lever - light alloy body - fast cable replacement
BRAKES	**BR-02CH**	caliper - side pull - height 40,75÷51,2 mm	levers in anodized forged aluminium - Monoplaner System
FRONT HUB HB-00CH		spoke holes: 32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm - hole for fast lubrication - rotary seals - braked lock nut	light alloy forged body - ground cones - rolled bored axle
FREEHUB FH-00CH		spoke holes: 32-36, over lock dimensions 130 mm - centre bore Ø 44 mm chain line 42 (43 with spacer) - Campagnolo 8-speed cassette	light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings
SPROCKETS CS-8RE		first-position sprocket 11 to 16 teeth - 2,3,4,5,6,7 position from 13 to 26 teeth - 8th position sprocket from 23 to 26 teeth	special steel - Ni-Cr treatment - periodic profiles for rapid shifting
CHAIN	**CN-CA68S**	1/2"x3/32" narrow 8-speed - 116 links	super smooth links - riveted pentagonal pin
HEAD SET	**HS-01CO**	thread BC 1"x24tpi - overall height 41,6 mm (bottom 15.0 + 26.6 top)	Selform system - selected 3/16" balls
PEDALS	**PD22CHQR**	quick release - thread 9/16"x20 tpi - length 12 mm	adjustable grip tension - double bearings
	PD-02CH	traditional with S-M-L toe clip	
SEAT PILLAR	**SP-CH**	length 180 mm Ø 25-25,4-26-26,2-26,4-26,6-26,8-27-27,2 mm	brackets forged in light alloy
	SP-CHS	length 130 mm Ø 25-26,2-26,4-26,6-26,8-27-27,2 mm	
PLATE	**AI-00CD**	for beneath bottom bracket shell	QPQ treatment



GR-03AT ATHENA GROUP

REAR DERAILLEUR RD-11AT		8-speed - maximum sprocket 28 teeth - total capacity 26 teeth	light alloy bodies and connecting rods - rollers on sinterized bushes - connecting rods articulated on self-lubricating bushes
FRONT DERAILLEUR FD-01SAT FD-01FAT		capacity: 14 teeth - maximum sprocket 56 teeth braze-on clip-on Ø 28,6 mm	light alloy body
CRANKSET FC-01AT		crank lengths mm 170-172,5-175 inner chainring: 39-40-41-42 outer chainring: 52-53 distance between centres 135 mm - chain line 44 mm with 111 mm axle	crank in forged light alloy with fibre continuity - chainrings in aluminium alloy
BOTTOM BRACKET			
BB-01AT	BB-03AT	traditional, It. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical	balls 1/4" - hardened steel cups - ground axle
BB-01CART	BB-03CART	cartridge, It. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical	sealed - assembly cups in aluminium - special fixing washers
ERGOPOWER EC-12REAB CG		8-speed indexed shifting lever - multi-position front derailleur control, also suitable for triple chainrings - progressive action brake control with quick release. Normal or flat adjustment blocks in techno-plastic	aluminium body with Rilsan treatment on mating parts - light alloy forged levers - ball-bearing movement - silicone rubber hood
SHIFTING LEVERS SL-01SRE CG		8-speed indexed shifting lever with adjuster - adjustable friction-type front derailleur control - M5 screw	anodized light alloy levers - sinterized insert
BRAKE LEVERS	BL-02AT CG	symmetrical control - internal cables - quick release	anodized aluminium lever - fast cable replacement
BRAKES	BR-02AT	caliper - side pull - height 41÷52,5 mm	levers in anodized forged aluminium
FRONT HUB HB-00AT		spoke holes: 32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm - rotary seals - braked lock nut	light alloy forged body - ground cones - rolled bored axle
FREEHUB FH-00AT		spoke holes: 32-36, over lock dimensions 130 mm - centre bore Ø 44 mm chain line 42 (43 with spacer) - Campagnolo 8-speed cassette	light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings
SPROCKETS CS-8S		in the following combinations: 12/13/14/15/17/19/21/23 13/14/15/16/17/19/21/23 13/14/15/17/19/21/23/26 14/15/16/17/19/21/23/26	special steel - nickel-plated - periodic profiles for rapid shifting
CHAIN	CN-NTS	1/2"x3/32" narrow 8-speed - 114 links	burnished links
HEAD SET	HS-01AT	thread BC 1"x24tpi - overall height 41,1 mm (bottom 15.6 + 25,5 top)	Selform system - selected 3/16" balls
PEDALS	PD22ATQR PD-02CH	quick release - thread 9/16"x20 tpi - length 12 mm traditional with S-M-L toe clip	adjustable grip tension
SEAT PILLAR	SP-AT SP-ATS	length 180 mm Ø 25-25,4-26,2-26,4-26,6-26,8-27-27,2 mm length 130 mm Ø 25-26,2-26,4-26,6-26,8-27-27,2 mm	
PLATE	AI-00CD	for beneath bottom bracket shell	QPQ treatment



GR-03VL VELOCE GROUP

REAR DERAILLEUR **RD-01VL**	8-speed - maximum sprocket 28 teeth - total capacity 26 teeth	light alloy bodies and connecting rods - rollers on sinterized bushes - connecting rods articulated on self-lubricating bushes
FRONT DERAILLEUR **FD-01SVL** **FD-01FVL**	capacity: 14 teeth - maximum sprocket 56 teeth braze-on clip-on Ø 28,6 mm	light alloy body
CRANKSET **FC-01VL**	crank lengths mm 170-172,5 inner chainring: 39-42 outer chainring: 52-53 distance between centres 135 mm - chain line 44 mm with 111 mm axle	crank in light alloy - chainrings in aluminium alloy
BOTTOM BRACKET **BB-01VL** **BB-03VL**	cartridge, Italian thread 36x24 tpi, axle 111 mm, symmetrical cartridge, thread BC 1,370x24 tpi, axle 111 mm, symmetrical	sealed - techno-plastic assembly cups
ERGOPOWER **EC-02VL CG**	8-speed indexed shifting lever - multi-position front derailleur control, also suitable for triple chainrings - progressive action brake control with quick release. Normal or flat adjustment blocks in techno-plastic	techno-plastic body - light alloy brake lever - movement on bushes - rubber hood
SHIFTING LEVERS **SL-01SVL CG**	8-speed indexed shifting lever - adjustable friction-type front derailleur control - M5 screw	painted light alloy levers - sinterized insert
BRAKE LEVERS **BL-02VL CG**	symmetrical control - internal cables - quick release	aluminium lever - fast cable replacement
BRAKES **BR-02VL**	caliper - side pull - height 39÷51 mm	levers in forged aluminium - wheel guide incorporated in shoe
FRONT HUB **HB-00VL**	spoke holes: 32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm - rotary seals - braked lock nut	light alloy forged body - rolled cones - rolled bored axle
FREEHUB **FH-00VL**	spoke holes: 32-36, over lock dimensions 130 mm - centre bore Ø 44 mm chain line 42 (43 with spacer) - Campagnolo 8-speed cassette	light alloy forged body - ground cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings
SPROCKETS **CS-8S**	in the following combinations: 12/13/14/15/17/19/21/23 13/14/15/16/17/19/21/23 13/14/15/17/19/21/23/26 14/15/16/17/19/21/23/26	special steel - nickel-plated - periodic profiles for rapid shifting
CHAIN **CN-NTS**	1/2"x3/32" narrow 8-speed - 114 links	burnished links
HEAD SET **HS-01VL**	thread BC 1"x24tpi - overall height 33 mm (bottom 11.5 + 21.5 top)	light alloy counter-nut - 3/16" balls
PEDALS **PD12VLQR**	quick release - thread 9/16"x20 tpi - length 12 mm	adjustable grip tension
PLATE AI-00CD	for beneath bottom bracket shell	QPQ treatment


MADE IN ITALY
BREV. CAMPAGNOLO
BREV. CAMPAGNOLO
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C.V. CAMPAGNOLO - MADE IN ITALY - C.V.
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Z42ATB

The Compact Drive is the result of our efforts to considerably improve the performance of the Off-Road transmission.

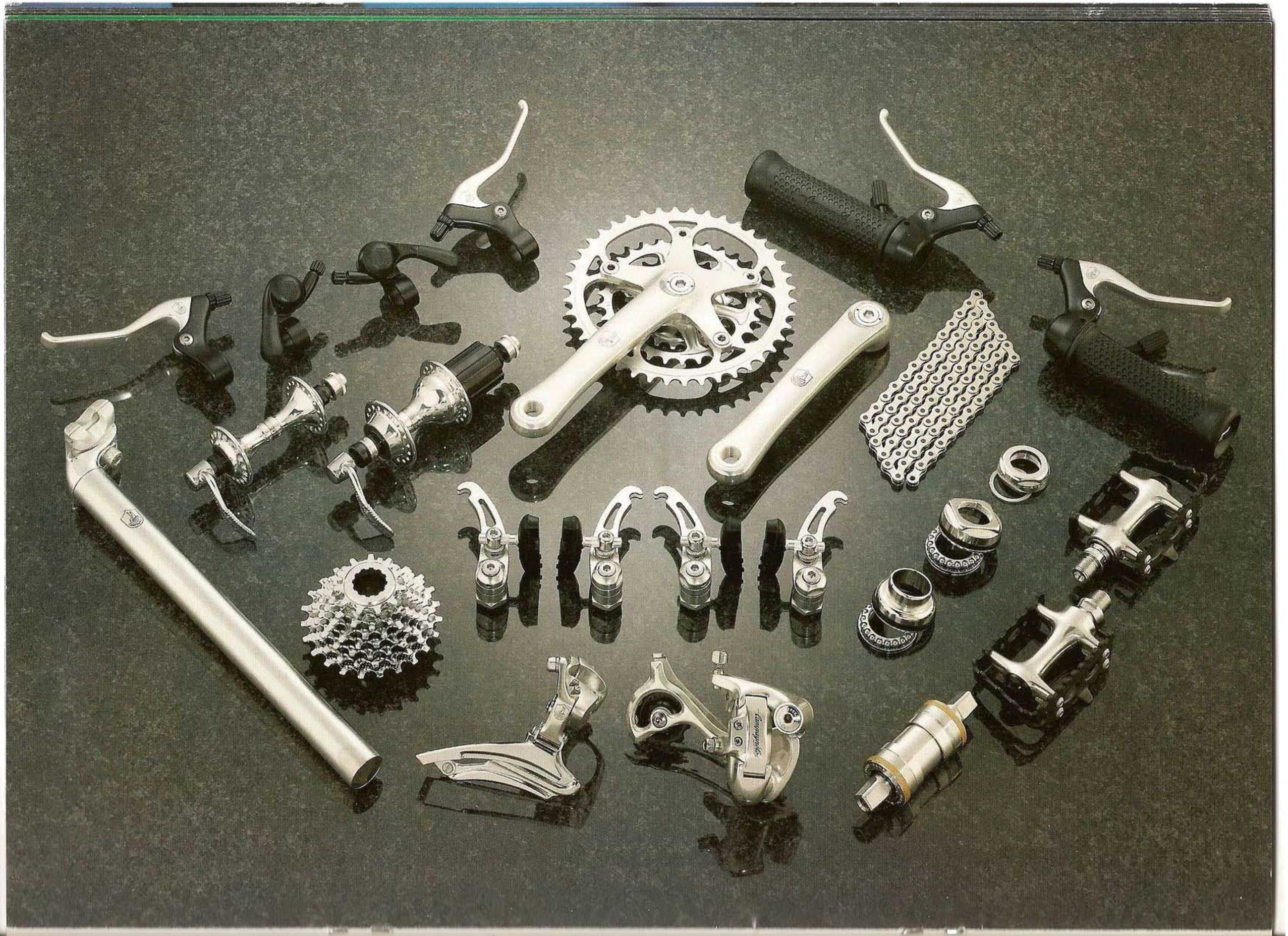
Each component is designed to give the maximum performance in all conditions and to guarantee prompt fluid power transmission .

The heart of the system is the Compact cassette crankset, designed with the most up-to-date dimensional analysis techniques by means of an exclusive continuous fibre forging system which exalts the qualities of the light alloy.

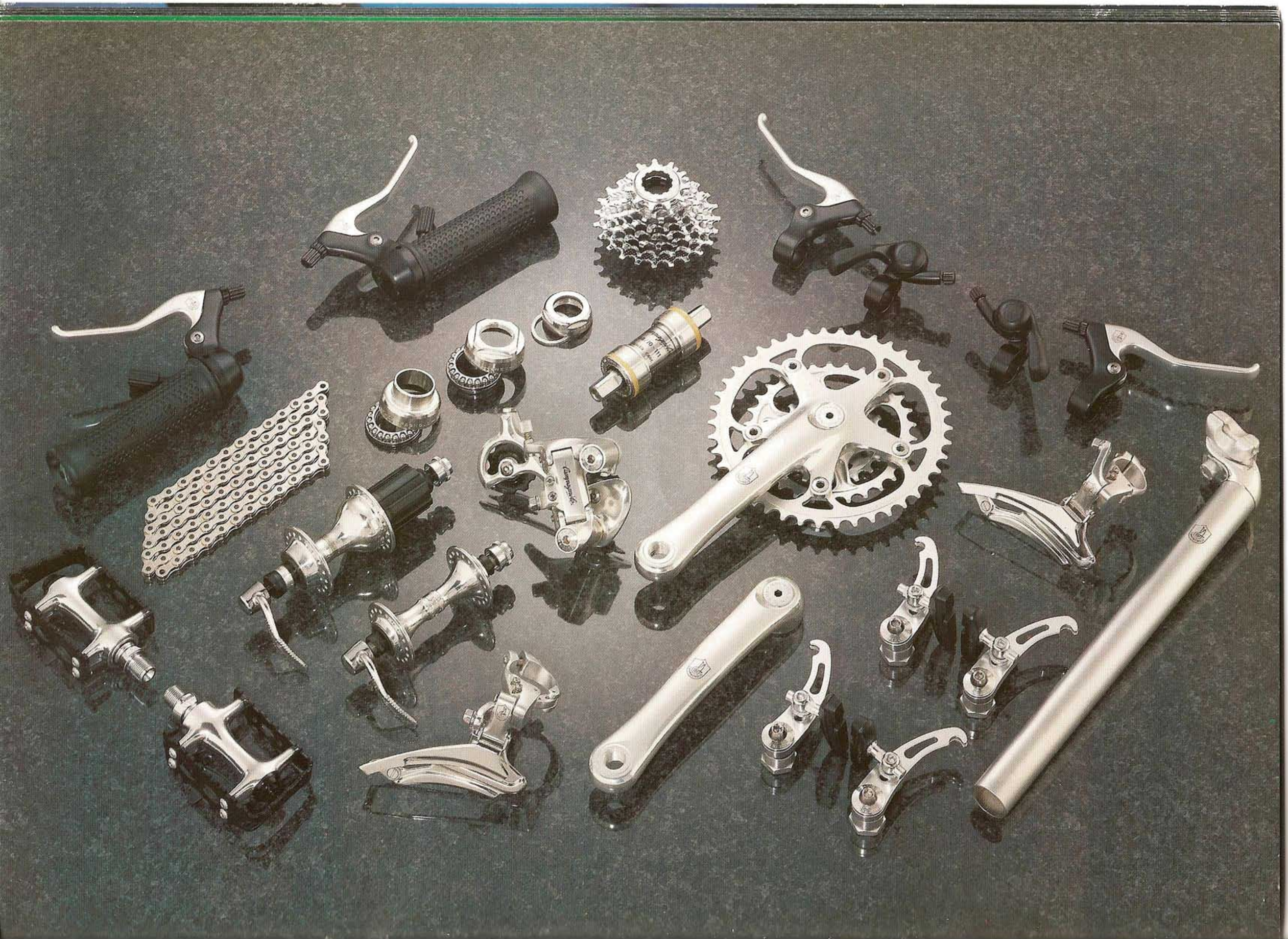
The innovative fastening system for the inner chainrings means they can be changed quickly.

The profile of the teeth and the special ribbing of the central chainring's spokes considerably increase shifting speed.

We build components with the optimum performance for the most important race of all:
yours.


Campagnolo

GR-03OR	RECORD O.R. GROUP	
REAR DERAILLEUR **RD-11OR** **RD-12OR** **RD-13OR**	8-speed short cage - max. sprocket 30 teeth - tot. capacity 30 teeth medium cage - max. sprocket 32 teeth - tot. capacity 36 teeth long cage - max. sprocket 32 teeth - tot. capacity 42 teeth	bodies and connecting rods forged in light alloy - rollers on sinterized bushings - connecting rods articulated on self-lubricating bushes
FRONT DERAILLEUR **FD-01FOR / FD-02FOR** **FD-03FOR** **or TOP-PULL version** **FD-01TPOR / FD-02TPOR** **FD-03TPOR**	capacity: 22 teeth - maximum sprocket 48 teeth clip-on Ø 28,6 mm / adjustable clip-on Ø 28,6÷33 mm adjustable clip-on 35÷36 mm clip-on Ø 28,6 mm / adjustable clip-on Ø 28,6÷33 mm adjustable clip-on 35÷36 mm	calibrated fork - high torsional rigidity - traditional cable pull calibrated fork - high torsional rigidity - cable pull from above
CRANKSET **FC-01CSOR**	crank lengths mm 170 - 175 inner chainring: 20-22 mid.: 30-32 outer: 42-44 chain line 46 mm with 111 mm axle	Compact Drive - crank in forged light alloy with fibre continuity - incorporated extractor - outer chainring in aluminium alloy, distance between centres 110 mm - mid and inner chainrings in treated steel - fast chainring replacement
BOTTOM BRACKET **BB-11RECART** **BB-13RECART**	cartridge, It. 36x24 tpi, axle 111 mm, symmetrical cartridge, BC 1,370x24 tpi, axle 111 mm, symmetrical	double seal - assembly cups in aluminium alloy - Triple Bearing System - twin bearings RH side - two 0-rings
BULLET SHIFTERS **BS-02IC CG**	8-speed shifter, indexed - multi-position front derailleur control - bend I.D. 15÷20,5 mm	sinterized insert - triple positioning spring - adjustable shift force
THUMB-SHIFTER LEVERS **SL-02TB CG**	8-speed indexed shifting lever with adjuster - multi-position front derailleur control - bend I.D. 22,2 mm	light alloy levers - sinterized insert - fast lubrication
BRAKE LEVERS BL-02OR CG **BL-02ORTB CG**	integrated with Bullet independent with Thumb-shifter	anodized aluminium lever - light alloy body - fast cable replacement - adjustable lever distance from handlebar - cable tension adjustable
BRAKES BR-02CLTDOR	cantilever - spring tension adjuster - adjustable axial free play	levers in anodized aluminium - low profile - high coefficient shoes
FRONT HUB **HB-00OR**	spoke holes: 32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm - hole for fast lubrication - rotary seals - braked lock nut in light alloy	light alloy forged body - ground cups and cones - rolled bored axle
FREEHUB **FH-00OR**	spoke holes: 32-36, over lock dimensions 135 mm - centre bore Ø 44 mm chain line 43.5 (44.5 with spacer) - Campagnolo 8-speed cassette	light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings
SPROCKETS CS-8RE	first-position sprocket 11 to 16 teeth - 2,3,4,5,6,7 position from 13 to 30 teeth - 8th position sprocket from 23 to 32 teeth	special steel - Ni-Cr treatment - periodic profiles for rapid shifting
CHAIN CN-CA68S	1/2"x3/32" narrow 8-speed - 116 links	super smooth links - riveted pentagonal pin
HEAD SET HS-01OR **HS-03OR** **HS-04OR**	thread BC 1"x24tpi - overall height 41.5 mm (bottom 15.0 + 26.5 top) thread BC 1 1/8"x26tpi - overall height 36.0 mm (bottom 13.0 + 23.0 top) thread BC 1 1/4"x26tpi - overall height 40.5 mm (bottom 13.0 + 27.5 top)	Selform system - lubrication without disassembly - selected 3/16" balls
PEDALS PD02OR	traditional	polished, anodized body - hardox cage
SEAT PILLAR SP-IC	length 325 mm Ø 25,4-26,6-26,8-27-27,2-28,6-29,4-29,8-30-31,6 mm	head and brackets forged in light alloy - from Ø 27 stem in CrMo
PLATE AI-00CD	for beneath bottom bracket shell	QPQ treatment



GR-03IC	ICARUS GROUP	
REAR DERAILLEUR RD-11IC RD-12IC RD-13IC	8-speed short cage - max. sprocket 30 teeth - tot. capacity 30 teeth medium cage - max. sprocket 32 teeth - tot. capacity 36 teeth long cage - max. sprocket 32 teeth - tot. capacity 42 teeth	bodies and connecting rods in light alloy - rollers on sinterized bushings - connecting rods articulated on self-lubricating bushes
FRONT DERAILLEUR FD-01FOR / FD-02FOR FD-03FOR or TOP-PULL version FD-01TPOR / FD-02TPOR FD-03TPOR	capacity: 22 teeth - maximum sprocket 48 teeth clip-on Ø 28,6 mm / adjustable clip-on Ø 28,6÷33 mm adjustable clip-on 35÷36 mm clip-on Ø 28,6 mm / adjustable clip-on Ø 28,6÷33 mm adjustable clip-on 35÷36 mm	calibrated fork - high torsional rigidity - traditional cable pull calibrated fork - high torsional rigidity - cable pull from above
CRANKSET FC-01CSIC	crank lengths mm 170 - 175 inner chainring: 20-22 mid.: 30-32 outer: 42-44 chain line 46 mm with 111 mm axle	Compact Drive - crank in forged light alloy with fibre continuity - outer chainring in aluminium alloy, distance between centres 110 mm - mid and inner chainrings in treated steel - fast chainring replacement
BOTTOM BRACKET BB-01CART BB-03CART	cartridge, It. 36x24 tpi, axle 111 mm, symmetrical cartridge, BC 1,370x24 tpi, axle 111 mm, symmetrical	sealed - assembly cups in aluminium - special fixing washers
BULLET SHIFTERS BS-02IC CG	8-speed shifter, indexed - multi-position front derailleur control - bend I.D. 15÷20,5 mm	sinterized insert - triple positioning spring - adjustable shift force
THUMB-SHIFTER LEVERS SL-02TB CG	8-speed indexed shifting lever with adjuster - multi-position front derailleur control - bend I.D. 22,2 mm	light alloy levers - sinterized insert - fast lubrication
BRAKE LEVERS BL-02OR CG BL-02ORTB CG	integrated with Bullet independent with Thumb-shifter	anodized aluminium lever - light alloy body - fast cable replacement - adjustable lever distance from handlebar - cable tension adjustable
BRAKES BR-02CLTDIC	cantilever - spring tension adjuster	levers in anodized aluminium - low profile - high coefficient shoes
FRONT HUB HB-00IC	spoke holes: 32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm - hole for fast lubrication - rotary seals - braked lock nut	light alloy forged body - ground cones - rolled bored axle
FREEHUB FH-00IC	spoke holes: 32-36, over lock dimensions 135 mm - centre bore Ø 44 mm chain line 43.5 (44.5 with spacer) - Campagnolo 8-speed cassette	light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings
SPROCKETS CS-8RE	first-position sprocket 11 to 16 teeth - 2,3,4,5,6,7 position from 13 to 30 teeth - 8th position sprocket from 23 to 32 teeth	special steel - Ni-Cr treatment - periodic profiles for rapid shifting
CHAIN CN-CA68S	1/2"x3/32" narrow 8-speed - 116 links	super smooth links - riveted pentagonal pin
HEAD SET HS-01CO HS-03CO HS-04CO	thread BC 1"x24tpi - overall height 41.5 mm (bottom 15.0 + 26.5 top) thread BC 1 1/8"x26tpi - overall height 36.0 mm (bottom 13.0 + 23.0 top) thread BC 1 1/4"x26tpi - overall height 40.5 mm (bottom 13.0 + 27.5 top)	Selform system - 3/16" balls
PEDALS PD02IC	traditional	polished, anodized body - light alloy cage
SEAT PILLAR SP-IC	length 325 mm Ø 25,4-26,6-26,8-27-27,2-28,6-29,4-29,8-30-31,6 mm	head and brackets forged in light alloy - from Ø 27 stem in CrMo
PLATE AI-00CD	for beneath bottom bracket shell	QPQ treatment



GR-03CE		CENTAUR GROUP	
REAR DERAILLEUR RD-12CE RD-13CE		8-speed medium cage - max. sprocket 32 teeth - tot. capacity 36 teeth long cage - max. sprocket 32 teeth - tot. capacity 42 teeth	bodies and connecting rods in light alloy - rollers on sinterized bushings - connecting rods articulated on self-lubricating bushes
FRONT DERAILLEUR FD-01FOR / FD-02FOR FD-03FOR or TOP-PULL version FD-01TPOR / FD-02TPOR FD-03TPOR		capacity: 22 teeth - maximum sprocket 48 teeth clip-on Ø 28,6 mm / adjustable clip-on Ø 28,6÷33 mm adjustable clip-on 35÷36 mm clip-on Ø 28,6 mm / adjustable clip-on Ø 28,6÷33 mm adjustable clip-on 35÷36 mm	calibrated fork - high torsional rigidity - traditional cable pull calibrated fork - high torsional rigidity - cable pull from above
CRANKSET FC-01TDIC		crank lengths mm 170 - 175 inner chainring: 24-26 mid.: 34-36 outer: 46-48 chain line 46 mm with 111 mm axle	crank in forged light alloy with fibre continuity - outer chainring in aluminium alloy, distance between centres 110 mm - mid and inner chainrings in treated steel
BOTTOM BRACKET BB-01CART BB-03CART		cartridge, It. 36x24 tpi, axle 111 mm, symmetrical cartridge, BC 1,370x24 tpi, axle 111 mm, symmetrical	sealed - assembly cups in aluminium - special fixing washers
BULLET SHIFTERS BS-02IC CG		8-speed shifter, indexed - multi-position front derailleur control - bend I.D. 15÷20,5 mm	sinterized insert - triple positioning spring - adjustable shift force
THUMB-SHIFTER LEVERS SL-02TB CG		8-speed indexed shifting lever with adjuster - multi-position front derailleur control - bend I.D. 22,2 mm	light alloy levers - sinterized insert - fast lubrication
BRAKE LEVER	BL-02IC CG BL-02ICTB CG	integrated with Bullet independent with Thumb-shifter	rubber-coated aluminium lever - light alloy body - fast cable replacement - adjustable lever distance from handlebar - cable tension adjustable
BRAKES	BR-02CLTDIC	cantilever - spring tension adjuster	levers in anodized aluminium - low profile - high coefficient shoes
FRONT HUB HB-00CE		spoke holes: 32-36, over lock dimensions 100 mm - centre bore Ø 38.5 mm - hole for fast lubrication - rotary seals - braked lock nut	light alloy forged body - ground cones - rolled bored axle
FREEHUB FH-00CE		spoke holes: 32-36, over lock dimensions 135 mm - centre bore Ø 44 mm chain line 43.5 (44.5 with spacer) - Campagnolo 8-speed cassette	light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings
SPROCKETS CS-8RE		first-position sprocket 11 to 16 teeth - 2,3,4,5,6,7 position from 13 to 30 teeth-8th position sprocket from 23 to 32 teeth	special steel - Ni-Cr treatment - periodic profiles for rapid shifting
CHAIN	CN-NTS	1/2"x3/32" narrow 8-speed - 114 links	burnished links
HEAD SET	HS-01CO HS-03CO HS-04CO	thread BC 1"x24tpi - overall height 41.5 mm (bottom 15.0 + 26.5 top) thread BC 1 1/8"x26tpi - overall height 36.0 mm (bottom 13.0 + 23.0 top) thread BC 1 1/4"x26tpi - overall height 40.5 mm (bottom 13.0 + 27.5 top)	Selform system - 3/16" balls
PEDALS	PD02IC	traditional	polished, anodized body - light alloy cage
SEAT PILLAR	SP-IC	length 325 mm Ø 25,4-26,6-26,8-27-27,2-28,6-29,4-29,8-30-31,6 mm	head and brackets forged in light alloy - from Ø 27 stem in CrMo
PLATE	AI-00CD	for beneath bottom bracket shell	QPQ treatment



Each series of Campagnolo rims, even if designed to meet a particular need has been developed using the same quality, the same engineering, the same production methods and has undergone the same rigorous quality control tests.

This industrial policy called for a long, careful examination of compatibility and optimization not only of the material used but also of the production processes and design.

Campagnolo boasts today a large complete range of rims produced only with profiles and material chosen to get the best combinations of stiffness/elasticity, indeformability for a good shock absorption and a high comfort.

A very rich range fit for the different branches of agonistic biking confirms Campagnolo's leadership even in the most specialistic sectors.

RIMS FOR TUBULAR



Code		Drilling	Weight gr.	Alloy		mm	
P0091	SIGMA HARDOX	32 - 36	335	7075 T6	DE	22	
P0111	SIGMA 20 HARDOX	32 - 36	345	7075 T6	DE	20	
P0451	OMEGA "V" HARDOX	32 - 36	395	6082 T6		19,5	V
P0171	OMEGA HARDOX	32 - 36	395	5086 H38	DE	20	
P0211	LAMBDA POLISHED	32 - 36	395	5086 H38	DE	20	

DE: double eyelet V: "V profile"
The weights are for rims without eyelets. Weight of one double eyelet for tubular rims: 1,52 gr.

RIMS FOR CLINCHER TYRE





Code		Drilling	Weight gr.	Alloy		mm	
P0162	OMEGA XL HARDOX	32 - 36	375	6082 T6	DE	22	
P0172	OMEGA HARDOX	32 - 36	430	6082 T6	DE	20,2	
P0212	LAMBDA POLISHED	32 - 36	430	6082 T6	DE	20,2	
P0222	OMEGA "V" HARDOX	32 - 36	440	6082 T6		20	V
P0232	LAMBDA "V" POLISHED	32 - 36	440	6082 T6		20	V
P0562	OMEGA 19 HARDOX	32 - 36	380	6082 T6	DE	19	
P0682	OMEGA 19 HARDOX 26"	28 - 32	350	6082 T6	DE	19	
P0692	OMICRON BLACK	36	480	6061 T6	DE	20,2	
P0362	OMICRON SILVER	36	480	6061 T6	DE	20,2	
P0272	OMICRON POLISHED	36	480	6061 T6	DE	20,2	
P0702	GAMMA BLACK	36	480	6061 T6	SE	20,2	
P0342	GAMMA SILVER	36	480	6061 T6	SE	20,2	
P0282	GAMMA POLISHED	36	480	6061 T6	SE	20,2	

DE: double eyelet SE: single eyelet V: "V profile"

The weights are for rims without eyelets. Weight of one double eyelet for clincher tyre rims: 1,14 gr. Weight of one single eyelet: 0,46 gr.

RIMS FOR OFF-ROAD





Code		Drilling	Weight gr.	Alloy		mm
P0594	STHENO HARDOX	32 - 36	405	6082 T6		22
P0604	STHENO POLISHED	32 - 36	405	6082 T6		22
P0614	ATEK HARDOX	32 - 36	390	6082 T6		20
P0624	ATEK POLISHED	32 - 36	390	6082 T6		20
P0634	MIROX HARDOX	32 - 36	380	6082 T6	DE	22
P0644	MIROX POLISHED	32 - 36	380	6082 T6	DE	22
P0664	ZARK BLACK	32 - 36	405	6061 T6	DE	21,9
P0654	ZARK POLISHED	32 - 36	405	6061 T6	DE	21,9

DE: double eyelet
The weights are for rims without eyelets. Weight of one double eyelet for off-road rims: 1,52 gr.

SHAMAL

The most recent Campagnolo patent in wheel technology is called SHAMAL.
It is an aerodynamic design created with a wing profile which allows the maximum efficiency to be achieved.
Aerodynamics applied to the new profile of the rim: this is the result obtained from research carried out on the N.A.C.A. (National Advisory Committee for Aeronautics) curves which guided us in giving the profile in correspondence with the hub axle the form associated with the N.A.C.A. curve for 60 km/h.
This solution increases penetration into the air, eliminating the formation of braking vortices.
The wheel has only 16 spokes with a lenticular section without crossovers to contribute further to overcoming air resistance.
A reduction of the aerodynamic resistance is also obtained by recessing the nipples inside the profile, though these are still easy to access for adjustment which is carried out using a 5.5 mm socket wrench.
The lightness of Shamal wheel is very significant, as can be seen in the table.
The weight of the rear-wheel version also includes the 8 speed freewheel body, without sprockets.
The lightness has no effect on lateral rigidity which is very high and uniform.
The wheel is available in 26" and 28" versions and is supplied already assembled, without sprockets.
The Shamal wheel is supplied with an extension (code VE-01 or VE-02) to fit to the tire valve for inflating.



CODE	SHAMAL FOR TUBULAR TYRE (for 18÷20 mm tubular tyres)	RIM CROSS SECTION mm.	WEIGHT ~ gr.	HUB SPACING mm.	FREEWHEEL	SPROCKET SPACING mm
R0226	ROAD FRONT WHEEL 26" (650)	19	750	100	-	-
R0236	ROAD FRONT WHEEL 28" (700 C)	19	790	100	-	-
R0638	ROAD REAR WHEEL 28" (700 C)	19	1095	130	8 speed	41,5
R0636	ROAD REAR WHEEL 28" w. fw. body in light alloy	19	1040	130	8 speed	41,5

CODE	SHAMAL FOR CLINCHER TYRE (for 18÷23 mm clincher tyres)	RIM CROSS SECTION mm.	WEIGHT ~ gr.	HUB SPACING mm.	FREEWHEEL	SPROCKET SPACING mm
R0246	ROAD FRONT WHEEL 26" (650)	19	800	100	-	-
R0256	ROAD FRONT WHEEL 28" (700 C)	19	860	100	-	-
R0648	ROAD REAR WHEEL 26" (650)	19	1105	130	8 speed	41,5
R0646	ROAD REAR WHEEL 26" w. fw. body in light alloy	19	1050	130	8 speed	41,5
R0658	ROAD REAR WHEEL 28" (700 C)	19	1165	130	8 speed	41,5
R0656	ROAD REAR WHEEL 28" w. fw. body in light alloy	19	1110	130	8 speed	41,5

FLUID-DYNAMIC WHEELS



GHIBLI M23

Campagnolo, thanks to a patented working of a superlight material, the Kevlar, have made possible the realization of a wheel having the same weight of a traditional spokes wheel.



SCIROCCO

Scirocco is a front wheel, antiwind thanks to the four holes made on the sides of the lateral surfaces.



KHAMSIN

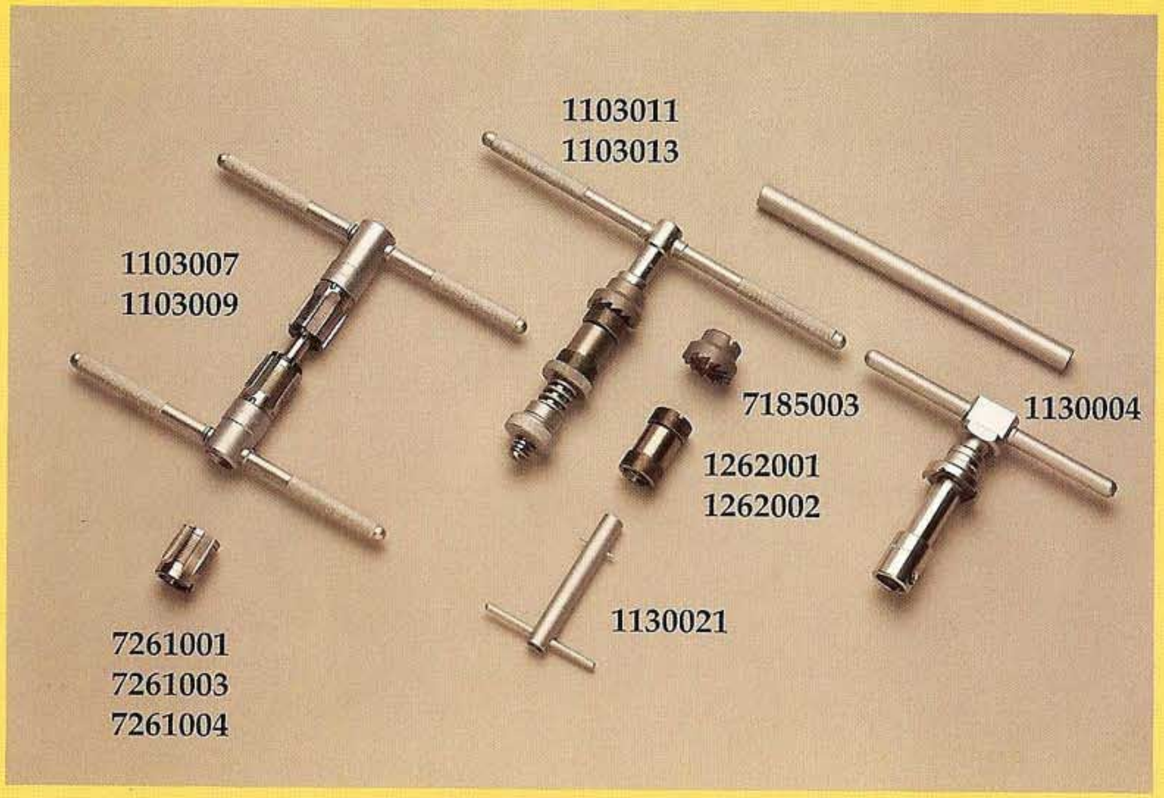
Lightness is guaranteed by the new composite material utilized.
This wheel has a special hub which can be turned from road into track and vice versa by replacement of the axles.

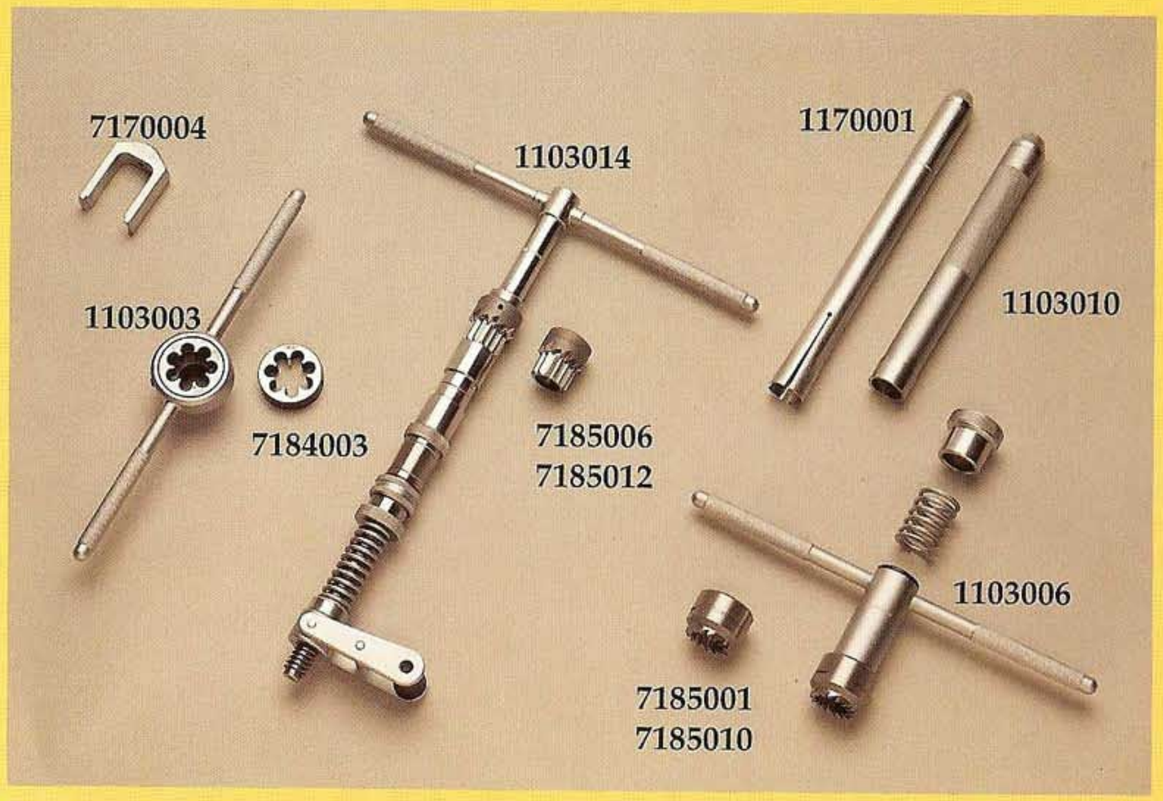
CODE	GHIBLI M23	RIM CROSS SECTION Ø	WEIGHT ~ gr.	HUB SPACING mm.	THREAD	FW./SPROCKET SPACING mm.
R0011	ROAD FRONT WHEEL 24" (600)	18	740	100	-	-
R0021	ROAD FRONT WHEEL 26" (650)	18	820	100	-	-
R0051	TRACK FRONT WHEEL 24" (600)	18	740	100	-	-
R0071	TRACK FRONT WHEEL 26" (650)	18	820	100	-	-
R0501	ROAD REAR WHEEL 28" (700 C)	18	960	126,5	35x24tpi	36
R0511	ROAD REAR WHEEL 28" (700 C)	18	960	126,5	BC 1,370x24tpi	36
R0531	TRACK REAR WHEEL 28" (700 C)	18	960	120	35x24tpi	24
R0541	TRACK REAR WHEEL 28" (700 C)	18	960	120	BC 1,370x24tpi	24

CODE	SCIROCCO	RIM CROSS SECTION Ø	WEIGHT ~ gr.	HUB SPACING mm.	THREAD	FW./SPROCKET SPACING mm.
R0215	ROAD FRONT WHEEL 26" (650)	18	980	100	-	-

CODE	KHAMSIN	RIM CROSS SECTION Ø	WEIGHT ~ gr.	HUB SPACING mm.	THREAD	FW./SPROCKET SPACING mm.
R0102	ROAD FRONT WHEEL 26" (650)	18	950	100	-	-
R0112	TRACK FRONT WHEEL 26" (650)	18	950	100	-	-
R0594	ROAD REAR WHEEL 28" (700 C)	18	1110	126,5	35x24tpi	36
R0604	ROAD/TRACK REAR WHEEL 28" (700 C)	18	1110	126,5/120	BC 1,370x24tpi	36/24

SPECIAL TOOLS





1103007	b.b. double tap, Italian thread
1103009	b.b. double tap, English thread
7261001	spare tap It. thread, 36x24tpi 55°
7261003	spare tap English thread, 1,370"x24tpi 60° RH
7261004	spare tap English thread, 1,370"x24tpi 60° LH
1103011	b.b. face cutter, Italian thread
1103013	b.b. face cutter, English thread
7185003	mill for 1103011 and 1103013
1262001	inner and outer thread guide for 1103011, Italian thread
1262002	inner and outer thread guide for 1103013, English thread
1130021	key for sleeve
1130004	r.h. b.b. tool

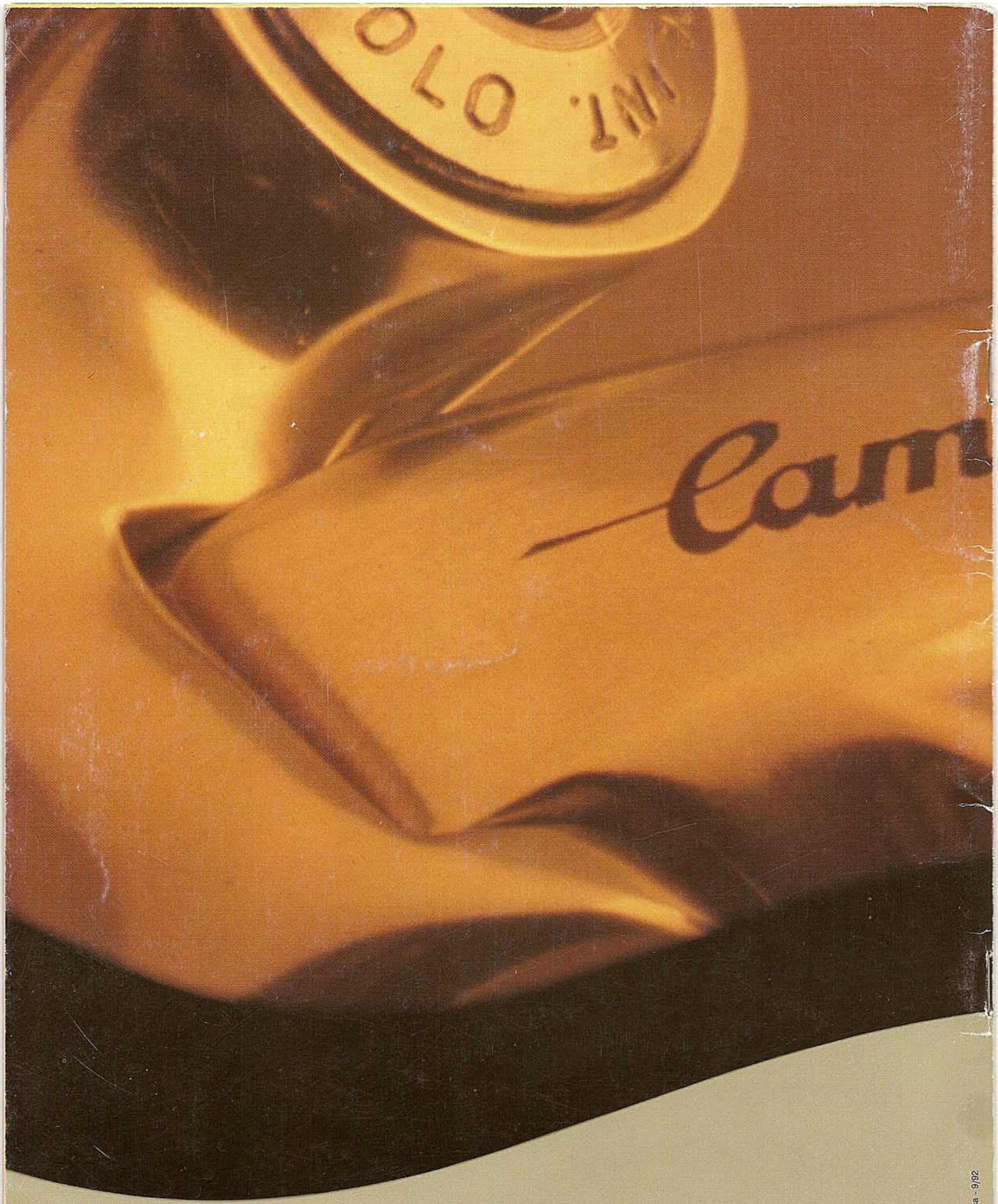
7170004	fork crown race remover
1103003	fork column die and die holder, English thread BSC 1"x24tpi 60°
7184003	fork column die BSC 1"x24tpi 60°
1103014	head race mill
7185006	double head race mill for 1103014
7185012	double head race mill for head set cup with hard metal insert for 1103014
1170001	head set cup remover
1103010	head set cup punch
1103006	crown race cutter English thread
7185001	crown race mill for 1103006
7185010	crown race mill for head set with hard metal insert for 1103006





1130006	T wrench, 6-8 mm
1130003	L shaped allen key, 5 mm
7130024	L shaped allen key, 3.5 mm
7130034	key for Record QR pedal cartridge
1170005	crank extractor with l.h. thread (for cranks with incorporated extractor)
1170003	crank extractor with r.h. thread
1130015	tool to remove crank self-extractor
1130001	tool for b.b. adjustable cup and head set
7130038	tool for b.b. lockring, for Compact crankset and for head set
7130003	tool for b.b. fixed cup and pedal axle
1130016	set hardened steel tool, size 13/14, for cones and locknuts and for brake fixing axle (2 pcs.)
1130017	set hardened steel tool, size 15/16, for cones and locknuts (2 pcs.)
7130014	spanner for cranks
7130037	key for fixing Compact chainwheel crank

1141003	new wheel dish tool for checking the centering of rim to hub locknuts
1301001	back stay tool for checking the r.h. fork and eyelet
1141004	back stay tool
2130001	tool for freewheel
1130010	spanner with chain for freewheel sprockets
1130020	chain tool
7261007	tap 10x26tpi for rethreading r.h. end gear hanger
7261005	r.h. tap 9/16"x20tpi, pedal axle hole right crank
7261006	l.h. tap 9/16"x20tpi, pedal axle hole left crank
7340001	spoke nipple 3-4
7130036	spanner for cassette freewheel sprockets and cartridge b.b.



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