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**National Cycle Archive**




*Campagnolo*



*Campagnolo*<sup>®</sup>

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.



**GR-03RE**

**RECORD GROUP**

<b>REAR DERAILLEUR</b> RD-11RE	8-speed - maximum sprocket 26 teeth - total capacity 26 teeth capacity: 14 teeth - maximum sprocket 56 teeth braze-on - clip-on Ø 28,6 mm
<b>FRONT DERAILLEUR</b> FD-11SRE FD-11FRE	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
<b>CRANKSET</b> FC-01RE	traditional, lt. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical cartridge, lt. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical
<b>BOTTOM BRACKET</b> BB-01RE BB-03RE BB-11RECART - BB-13RECART	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
<b>ERGOPOWER</b> EC-12RE CG	8-speed indexed shifting lever with adjuster - adjustable friction-type front derailleur control - M5 screw
<b>SHIFTING LEVERS</b> SL-01SRE CG	symmetrical control - internal cables - quick release
<b>BRAKE LEVERS</b> BL-02RE CG	articulated parallelogram, progressive operation - central pull - rapid toe-in - height 37,6 + 55,9 mm
<b>BRAKES</b> BR-02RE	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
<b>FRONT HUB</b> HB-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
<b>FREEHUB</b> 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 freewheel body in light alloy
<b>FREEHUB</b> SUPER RECORD FH-01SR	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
<b>SPROCKETS</b> CS-8RE	sprockets in positions 2,3,4,5,6,7 and 8 with 13 to 24 teeth
<b>SPROCKETS</b> SUPER RECORD CS-8SR	1/2"x3/32" narrow 8-speed - 116 links
<b>CHAIN</b> CN-CA68S	thread BC 1"x24tpi - overall height 41,5 mm (bottom 15,0 + 26,5 top)
<b>HEAD SET</b> HS-01OR	quick release - thread 9/16"x20 tpi - length 14 mm traditional with S-M-L toe clip - Triple Bearing System
<b>PEDALS</b> PD22REQR PD-02RE	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
<b>SEA T PILLAR</b> SP-RE SP-RES	for beneath bottom bracket shell
<b>PLATE</b> AI-00CD	

bodies and connecting rods forged in light alloy - rollers on adjustable ball bearings - connecting rods articulated on self-lubricating bushes
calibrated fork - high torsional rigidity
crank in forged light alloy with fibre continuity - incorporated extractor - chainrings in aluminium alloy
balls 7/32" - aluminium cups with tracks in hardened steel - ground axle double seal - assembly cups in aluminium alloy - Triple Bearing System - twin bearings RH side - two 0-rings
aluminium body with Rilsan treatment on mating parts - light alloy forged levers - ball-bearing movement - silicone rubber hood
anodized light alloy levers - sinterized insert
anodized aluminium lever - light alloy body - fast cable replacement
levers and bodies in anodized forged aluminium
light alloy forged body - ground cups and cones - rolled bored axle
light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings
light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings
special steel - Ni-Cr treatment - periodic profiles for rapid shifting
light alloy - periodic profiles for rapid shifting
super smooth links - riveted pentagonal pin
Selform system - lubrication without disassembly - selected 5/16" balls
adjustable inspectionable cartridge - adjustable grip tension - double diagonal bearings
stem and brackets forged in light alloy
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 FD-11SCH FD-01FCH FD-02FCH	capacity: 14 teeth - maximum sprocket 56 teeth braze-on clip-on Ø 28,6 mm adjustable clip-on Ø 29+33 mm	light alloy body and connecting rods
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 BB-11RE CART - BB-13RE CART	traditional, lt. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical cartridge, lt. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical	balls 1/4" - hardened steel cups - ground axle 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 PD-02CH	quick release - thread 9/16"x20 tpi - length 12 mm traditional with S-M-L toe clip	adjustable grip tension - double bearings
SEAT PILLAR SP-CH SP-CHS	length 180 mm Ø 25-25,4-26-26,2-26,4-26,6-26,8-27-27,2 mm length 130 mm Ø 25-26,2-26,4-26,6-26,8-27-27,2 mm	brackets forged in light alloy
PLATE AI-00CD	for beneath bottom bracket shell	QPQ treatment





**GR-03AT****ATHENA GROUP**

<b>REAR DERAILLEUR</b> 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
<b>FRONT DERAILLEUR</b> FD-01SAT FD-01FAT	capacity: 14 teeth - maximum sprocket 56 teeth braze-on clip-on Ø 28,6 mm	light alloy body
<b>CRANKSET</b> 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
<b>BOTTOM BRACKET</b> BB-01AT BB-03AT BB-01CART BB-03CART	traditional, lt. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical cartridge, lt. 36x24 tpi - BC 1,370x24 tpi, axle 111 mm, symmetrical	balls 1/4" - hardened steel cups - ground axle sealed - assembly cups in aluminium - special fixing washers
<b>ERGOPOWER</b> 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
<b>SHIFTING LEVERS</b> SL-01SRE CG	8-speed indexed shifting lever with adjuster - adjustable friction-type front derailleur control - M5 screw	anodized light alloy levers - sinterized insert
<b>BRAKE LEVERS</b> BL-02AT CG	symmetrical control - internal cables - quick release	anodized aluminium lever - fast cable replacement
<b>BRAKES</b> BR-02AT	caliper - side pull - height 41+52,5 mm	levers in anodized forged aluminium
<b>FRONT HUB</b> 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
<b>FREEHUB</b> 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
<b>SPROCKETS</b> CS-8S	in the following combinations: 12/13/14/15/17/19/21/23 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
<b>CHAIN</b> CN-NTS	1/2"x3/32" narrow 8-speed - 114 links	burnished links
<b>HEAD SET</b> HS-01AT	thread BC 1"x24tpi - overall height 41,1 mm (bottom 15.6 + 25,5 top)	Selform system - selected 3/16" balls
<b>PEDALS</b> PD22ATQR PD-02CH	quick release - thread 9/16"x20 tpi - length 12 mm traditional with S-M-L toe clip	adjustable grip tension
<b>SEAT PILLAR</b> 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	
<b>PLATE</b> AI-00CD	for beneath bottom bracket shell	QPQ treatment



**GR-03VL****VELOCE GROUP**

<b>REAR DERAILLEUR</b> 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
<b>FRONT DERAILLEUR</b> FD-01SVL FD-01FVL	capacity: 14 teeth - maximum sprocket 56 teeth brazed-on clip-on Ø 28,6 mm	light alloy body
<b>CRANKSET</b> 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
<b>BOTTOM BRACKET</b> 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
<b>ERGOPOWER</b> 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
<b>SHIFTING LEVERS</b> SL-01SVL CG	8-speed indexed shifting lever - adjustable friction-type front derailleur control - M5 screw	painted light alloy levers - sinterized insert
<b>BRAKE LEVERS</b> BL-02VL CG	symmetrical control - internal cables - quick release	aluminium lever - fast cable replacement
<b>BRAKES</b> BR-02VL	caliper - side pull - height 39+51 mm	levers in forged aluminium - wheel guide incorporated in shoe
<b>FRONT HUB</b> 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
<b>FREEHUB</b> 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
<b>SPROCKETS</b> CS-8S	in the following combinations: 12/13/14/15/17/19/21/23 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
<b>CHAIN</b> CN-NTS	1/2"x3/32" narrow 8-speed - 114 links	burnished links
<b>HEAD SET</b> HS-01VL	thread BC 1"x24tpi - overall height 33 mm (bottom 11.5 + 21.5 top)	light alloy counter-nut - 3/16" balls
<b>PEDALS</b> PD12VLQR	quick release - thread 9/16"x20 tpi - length 12 mm	adjustable grip tension
<b>PLATE</b> AI-00CD	for beneath bottom bracket shell	QPQ treatment



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.



## GR-03OR

### 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

### 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

### 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

### BOTTOM BRACKET

BB-11RECART  
BB-13RECART

cartridge, It. 36x24 tpi, axle 111 mm, symmetrical  
cartridge, BC 1.370x24 tpi, axle 111 mm, symmetrical

### BULLET SHIFTERS

BS-02IC CG

8-speed shifter, indexed - multi-position front derailleur control - bend I.D. 15+20,5 mm

### THUMB-SHIFTER LEVERS

SL-02TB CG

8-speed indexed shifting lever with adjuster - multi-position front derailleur control - bend I.D. 22,2 mm

### BRAKE LEVERS BL-02OR CG

BL-02ORTB CG

integrated with Bullet

independent with Thumb-shifter

### BRAKES

BR-02CLTDOR

cantilever - spring tension adjuster - adjustable axial free play

### 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

### 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

### 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

### CHAIN

CN-CA68S

1/2"x3/32" narrow 8-speed - 116 links

### 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)

### PEDALS

PD02OR

traditional

### SEAT PILLAR SP-1C

length 325 mm Ø 25,4-26,6-26,8-27-27,2-28,6-29,4-29,8-30-31,6 mm

### PLATE

AI-00CD

for beneath bottom bracket shell

## RECORD O.R. GROUP

bodies and connecting rods forged in light alloy - rollers on sinterized bushings  
- connecting rods articulated on self-lubricating bushes

calibrated fork - high torsional rigidity - traditional cable pull

calibrated fork - high torsional rigidity - cable pull from above

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

double seal - assembly cups in aluminium alloy - Triple Bearing System - twin bearings RH side - two 0-rings

sinterized insert - triple positioning spring - adjustable shift force

light alloy levers - sinterized insert - fast lubrication

anodized aluminium lever - light alloy body - fast cable replacement - adjustable lever distance from handlebar - cable tension adjustable

levers in anodized aluminium - low profile - high coefficient shoes

light alloy forged body - ground cups and cones - rolled bored axle

light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings

special steel - Ni-Cr treatment - periodic profiles for rapid shifting

super smooth links - riveted pentagonal pin

Selform system - lubrication without disassembly - selected 3/16" balls

polished, anodized body - hardox cage

head and brackets forged in light alloy - from Ø 27 stem in CrMo

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

**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

**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

**BOTTOM BRACKET**  
BB-01CART  
BB-03CART

cartridge, lt. 36x24 tpi, axle 111 mm, symmetrical  
cartridge, BC 1,370x24 tpi, axle 111 mm, symmetrical

**BULLET SHIFTERS**  
BS-02IC CG

8-speed shifter, indexed - multi-position front derailleur control - bend I.D. 15÷20,5 mm

**THUMB-SHIFTER LEVERS**  
SL-02TB CG

8-speed indexed shifting lever with adjuster - multi-position front derailleur control - bend I.D. 22,2 mm

**BRAKE LEVERS** BL-02OR CG  
BL-02ORTB CG

integrated with Bullet  
independent with Thumb-shifter

**BRAKES** BR-02CLTDIC

cantilever - spring tension adjuster

**FRONT HUB**  
HB-00IC

sproke holes: 32-36, over lock dimensions 100 mm - centre bore Ø 38,5 mm - hole for fast lubrication - rotary seals - braked lock nut

**FREEHUB**  
FH-00IC

sproke 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

**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

**CHAIN** CN-CA68S

1/2"x3/32" narrow 8-speed - 116 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)

**PEDALS** PD02IC

traditional

**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

**PLATE** AI-00CD

for beneath bottom bracket shell

bodies and connecting rods in light alloy - rollers on sinterized bushings - connecting rods articulated on self-lubricating bushes

calibrated fork - high torsional rigidity - traditional cable pull

calibrated fork - high torsional rigidity - cable pull from above

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

sealed - assembly cups in aluminium - special fixing washers

sinterized insert - triple positioning spring - adjustable shift force

light alloy levers - sinterized insert - fast lubrication

anodized aluminium lever - light alloy body - fast cable replacement - adjustable lever distance from handlebar - cable tension adjustable

levers in anodized aluminium - low profile - high coefficient shoes

light alloy forged body - ground cones - rolled bored axle

light alloy forged body - ground cups and cones - rolled bored axle - 3 pawl freewheel mechanism - freewheel supported by 2 radial bearings

special steel - Ni-Cr treatment - periodic profiles for rapid shifting

super smooth links - riveted pentagonal pin

Selform system - 3/16" balls

polished, anodized body - light alloy cage

head and brackets forged in light alloy - from Ø 27 stem in CrMo

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-01TDC	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, lt. 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-02CLTDC	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



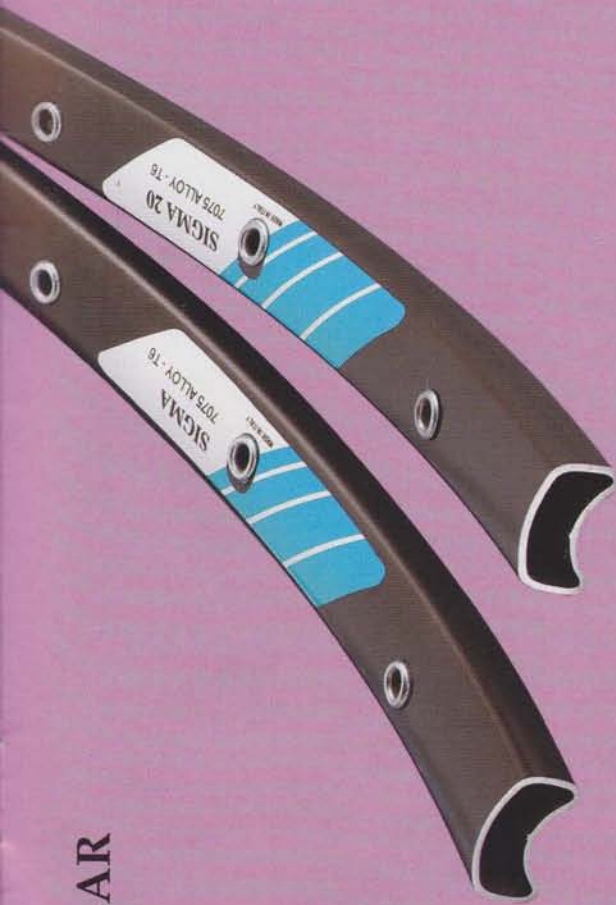
Each series of Campagnolo rims, even if designed to meet a particular need has been developed using the same quality, the same engineering, the same production methods and has undergone the same rigorous quality control tests.

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.

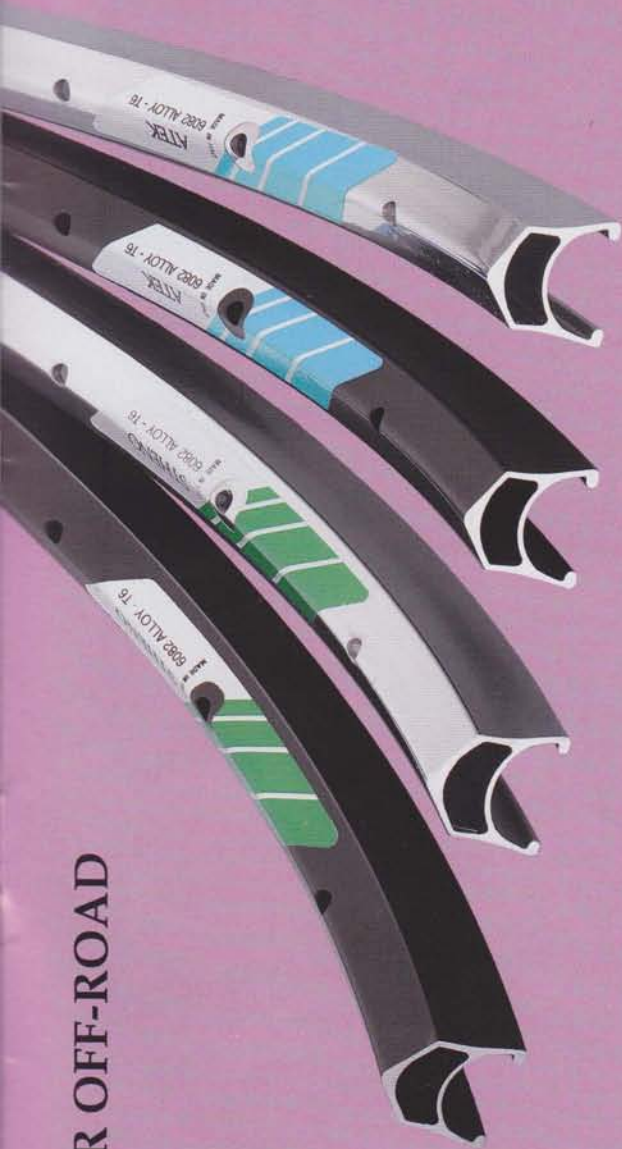
# RIMS FOR CLINCHER TYRE



Code	Drilling	Weight gr.	Alloy	mm
P0162	32 - 36	375	6082 T6	22
P0172	32 - 36	430	6082 T6	20,2
P0212	32 - 36	430	6082 T6	20,2
P0222	32 - 36	440	6082 T6	20 V
P0232	32 - 36	440	6082 T6	20 V
P0562	32 - 36	380	6082 T6	19
P0682	28 - 32	350	6082 T6	19
P0692	36	480	6061 T6	20,2
P0362	36	480	6061 T6	20,2
P0272	36	480	6061 T6	20,2
P0702	36	480	6061 T6	20,2
P0342	36	480	6061 T6	20,2
P0282	36	480	6061 T6	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	32 - 36	405	6082 T6	22
P0604	32 - 36	405	6082 T6	22
P0614	32 - 36	390	6082 T6	20
P0624	32 - 36	390	6082 T6	20
P0634	32 - 36	380	6082 T6	22
P0644	32 - 36	380	6082 T6	22
P0664	32 - 36	405	6061 T6	21,9
P0654	32 - 36	405	6061 T6	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**

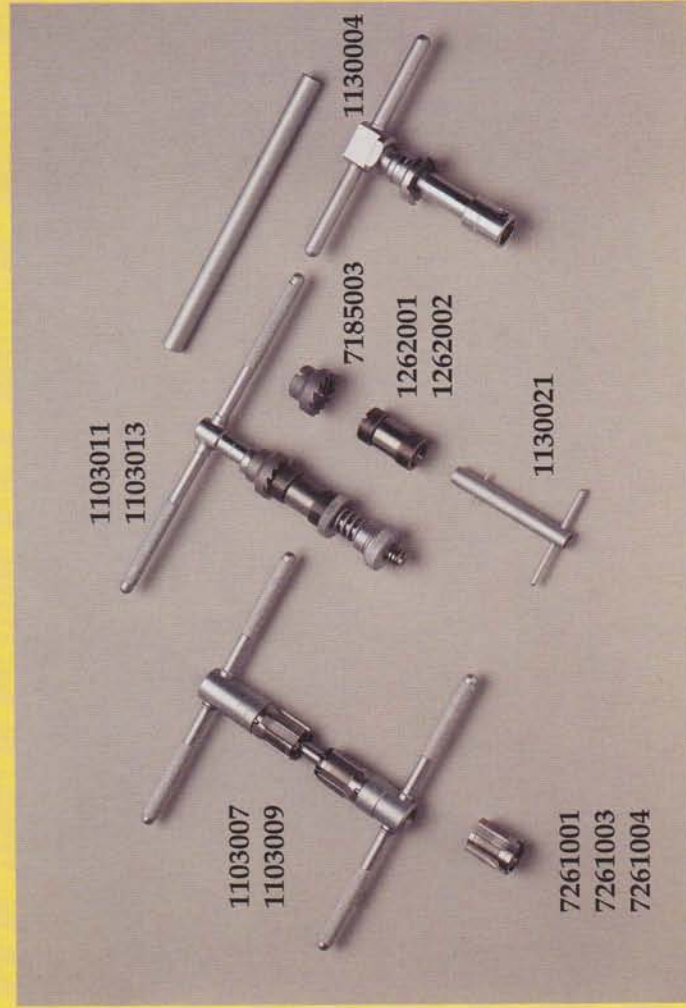
Lightness is guaranteed by the new composite material utilized. This wheel has a special hub which can be turned from road into track and vice versa by replacement of the axles.

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

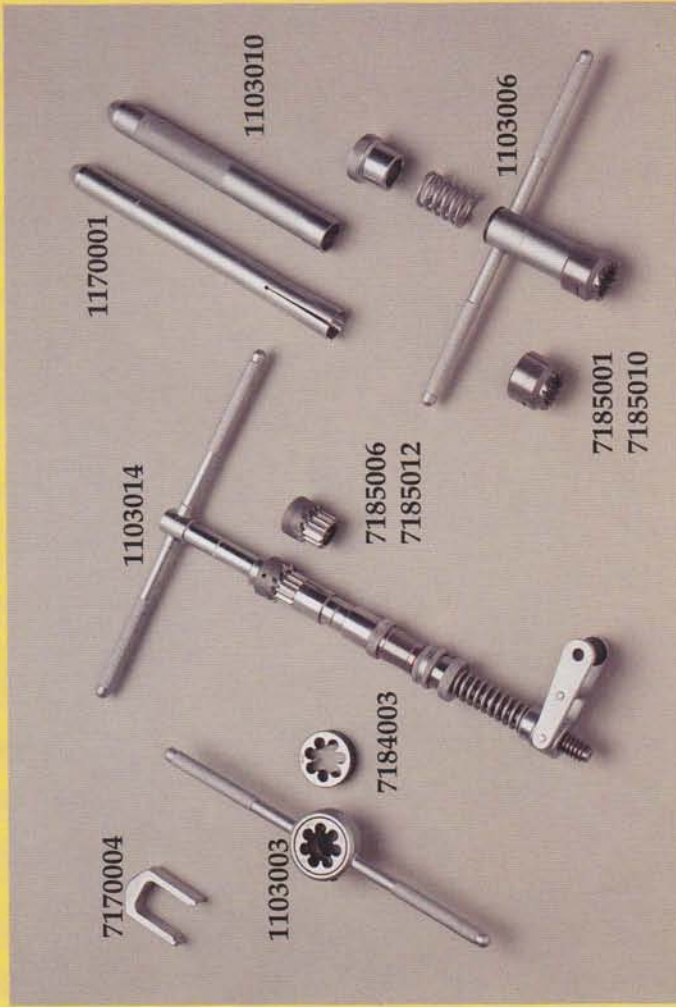
CODE	SCIROCCO	RIM CROSS SECTION Ø	WEIGHT - gr.	HUB SPACING mm.	THREAD	FW/SPROCKET SPACING mm.
R0215	ROAD FRONT WHEEL 26" (650)	18	980	100	-	-

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	-	-
F0112	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

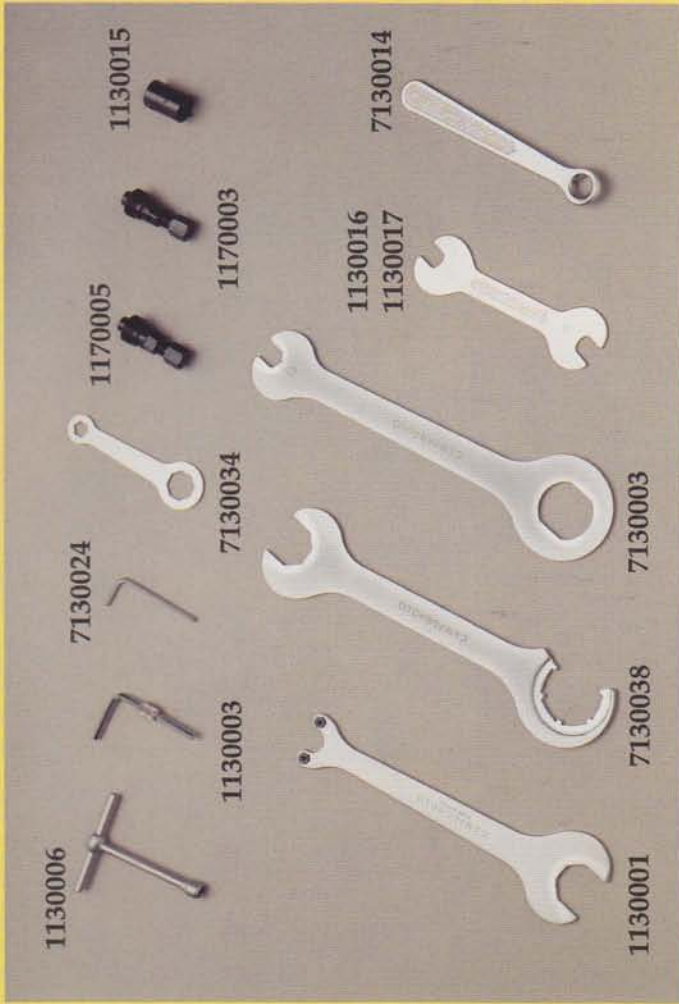
# SPECIAL TOOLS



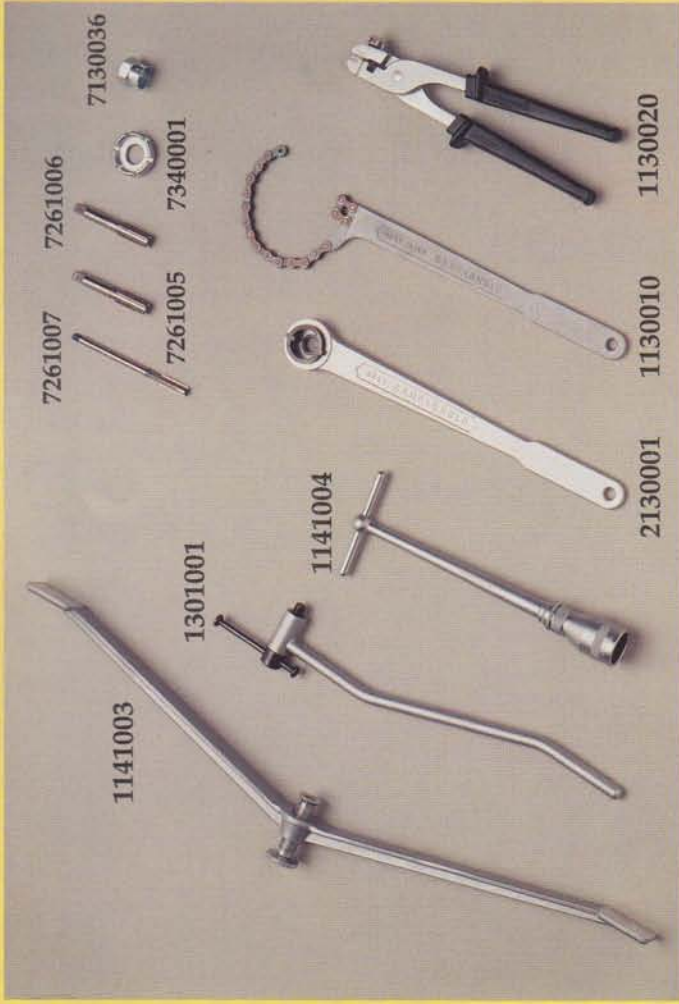
- 1103007 b.b. double tap, Italian thread
- 1103009 b.b. double tap, English thread
- 7261001 spare tap It. thread, 36x24tpi 55°
- 7261003 spare tap English thread, 1,370"x24tpi 60° RH
- 7261004 spare tap English thread, 1,370"x24tpi 60° LH
- 1103011 b.b. face cutter, Italian thread
- 1103013 b.b. face 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



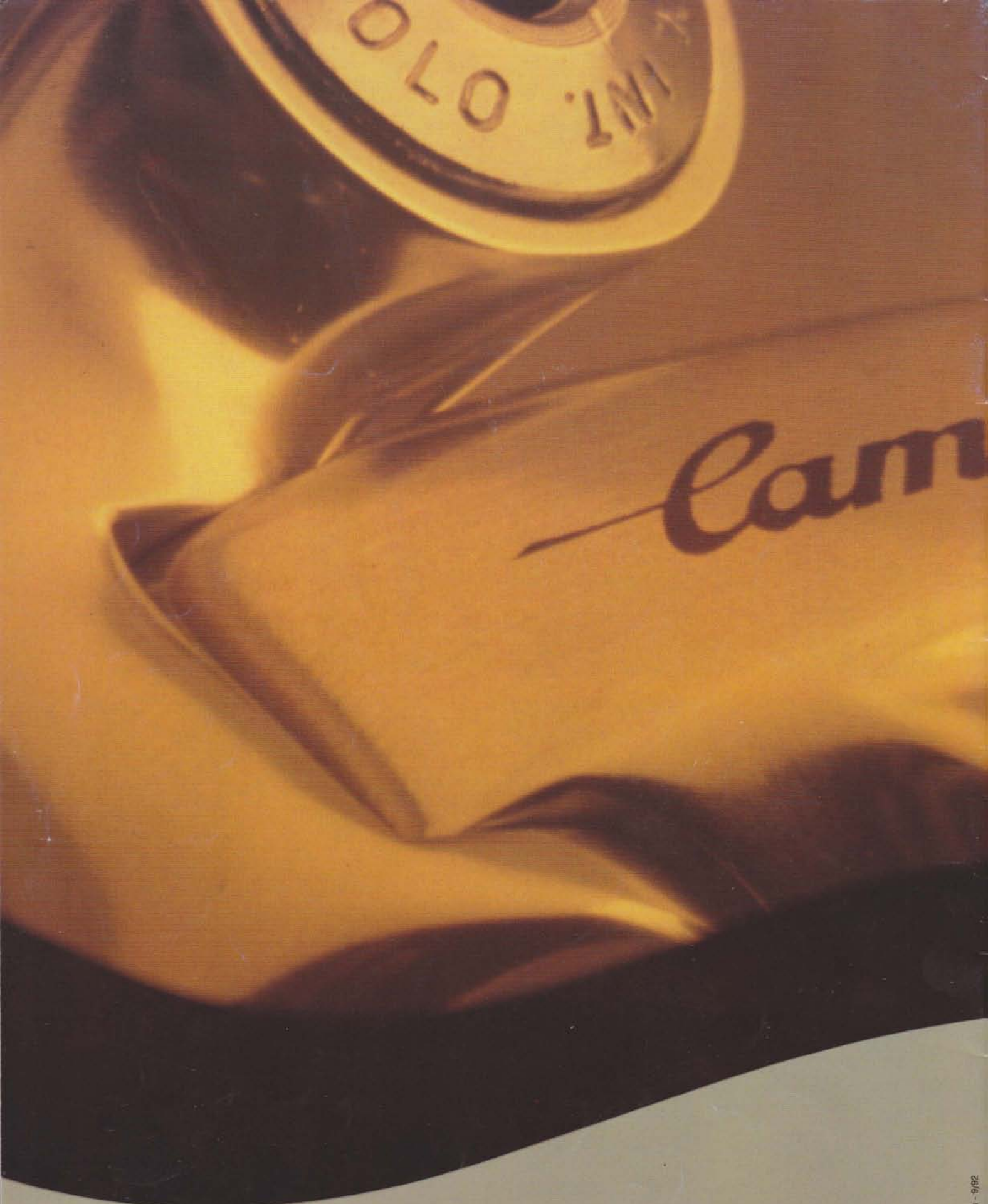
- 7170004 fork crown race remover
- 1103003 fork column die and die holder, English thread BSC 1"x24tpi 60°
- 7184003 fork column die BSC 1"x24tpi 60°
- 1103014 head race mill
- 7185006 double head race mill for 1103014
- 7185012 double head race mill for head set cup with hard metal insert for 1103014
- 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. locking, 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
- 1301001 locknuts
- 1141004 back stay tool for checking the r.h. fork and eyelet
- 2130001 back stay tool
- 1130010 tool for freewheel
- 1130020 spanner with chain for freewheel sprockets
- 7261007 chain tool
- 7261005 tap 10x26tpi for rethreading r.h. end gear hanger
- 7261006 r.h. tap 9/16"x20tpi, pedal axle hole right crank
- 7340001 l.h. tap 9/16"x20tpi, pedal axle hole left crank
- 7130036 spoke nipple 3-4
- spanner for cassette freewheel sprockets and cartridge b.b.



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