TOHING EVERYTHING CYCLING

ESSORIES, TUBULARS AND SUNDRIES



















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KITCHING EVERYTHING CYCLING ACCESSORIES

Because so many members of our company are active cyclists, it gives us added pleasure to see the way that cycle components are evolving.

components are evolving. Unlike the car market, there is no compulsion to issue a yearly new model, and for this reason when manufacturers do add a component to their range it is for reasons of genuine improvement, and not just to stimulate sales.

Some may argue about the value of aerodynamics, but the quest for more aerodynamic items has undoubtedly produced components that are more attractive, more compact and thus lighter. Sealed bearing components are proliferating, and the use of high-tech plastics is on the increase.

Which is not to stay that innovation is everything. The world's most popular touring chainset has changed its design hardly at all over the course of a decade and its appeal remains solidly in the wide range of chainwheels and crank lengths available.

Availability is important. We stock an unrivalled range of components, offering a choice of manufacturers in most cases, letting the customer make a personal choice and not necessarily accept that components ridden under contract by professional cyclists are the best. The items we stock are available through countless specialist cycle dealers throughout the country, so even if your chosen dealer does not stock a given line, it can be quickly obtained. Our commitment is to offer not just the fast moving lines, but those needed by the specialist, hence the incidence of components suitable for tandems, unusual rim and hub drillings, the

off-standard seat pillar sizes.
You can have confidence that any item tisted in this catalogue has been fully assessed for its practicality and value. It is guaranteed and backed up by spares. Our motions. Everything Cycling", and this is entainly our aim, to continually scourthe world for worthwhile components and to long them on offer to cycling enthusiasts.





ATAX



Handlebars

Two models of specially high quality from a wide range. Both are in AG5 light alloy, with an engraved centre sleeve and the whole bend given a luxury silver anodised finish.

Franco-America
We chose this handlebar for the rider needing a wide shape with plenty of depth, a style popularised by Eddy 340 gm.

Franco America anodised silver 42 cm Each 1B AX A3775 £8

Tour de France

A squarish bend ideal for road rider, offering a choice of positions, a good choice for most purposes, 40 cm 340 gm

Tour de France anodised silver 40 cm Each 1B AX A3780 £8

Handlebar stems

ASCG Aerodynamic stems

The high technology of this respected company, already involved for years in alloy bars and stems, bas now turned to aerodynamics. But not only the smooth lines are new. In addition, it employs a patented way of securing the bars, the hidden Allen-key bolt acting as a carn. The locking steel thread is helicoid, and the clamp cannot twist or warp under pressure because of a rubber shock absorbing

because of a nutber shock-acsi-pad. In 75-90-105mm lengths. 75mm – 265 gm. 90mm – 285 gm. 105mm – 330 gm.

ASCG Aerodynamic 75mm Each 1B AX A4070 £8-05

ASCG Aerodynamic 90 €8-33 Each 1B AX A4075

ASCG Aerodynamic 105mm Each 1B AXA4080 €8-61

Glissiere adjustable stem A chrome-plated stem adjustable for length by virtue of a moveable handlebar clamp 475 gm

37 Glissiere adjustable to 170mm Each 18 AXA4130 £12-15

Seat Pin

Professional

An amazingly simple micro-adjusting seat pillar in anodised light alloy, one easily-reached Allen-key bolt controlling the saddle tilt and the actual clamping of the saddle wires 230 gm.

Professional 205mm long, 26 8, 27 0, 27-2mm 1B £6-98

AX A7050



Polypro

Similar model, but in black polyamide, for extreme lightness 180 gm

AXA7053 50

1B

£4-48

ASCG

BADOR



€8-54

Handlebar stem

Competition

Light alloy stem for French-dimension frames 90, 100, 120, 130mm

Competition alloy handlebar stem

(90-130mm ext.) Each 1X BRA520 Each.

Bottom bracket set

Competition

Precision sealed bracket unit alloy with steel axle. French threading



Competition Alloy B. bracket set (steel sxle) 1X BR A540 £35-81

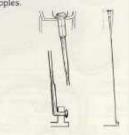
BERNARD



Rustless spokes

Manufactured in France in a modern factory, Bernard are offering the answer to cyclists requiring a reliable product at a reasonable price. The spokes are manufactured in first quality rustless steel and are available in 14×16 double-butted gauges. This

gauge, coupled with the quality, offers a first class product both for competition riders and tourists. Supplied with Schrader first quality nipples.



Ace of Hearts 14/16 gauge D.B. 1.000 1B BD A7524 5U £44-00

BIBLA



Dynamo cap

A rubber cap for the dynamo pulley wheel which reduces pulley wear and reduces the risk of bulbs blowing at high speed by reducing the effective RPM of the dynamo. At the same time it minimizes slippage.

73 Dynamo pulley cap

BBA A2465

£0-04

BINDA



Toestraps

Standard

Standard
Extremely strong leather. The first favourite among cyclists the world over. Really stiff chrome leather with special quick release buckle make Binda straps ideal for road or track. Available in attractive colours – Red. blue, white or black



Standard model QR assorted colour £3-62 BNA A8150 20M

Super

A tough outer coating adds strength to the suppleness of chrome leather

Super model QR assorted colours Pair 1B BNA A8155 20M £5-81

New model for the professional Finest leather strap with reinforcing insert resulting in an almost indestructible strap.

Extra model assorted colours Pair 1B BNA A8160 20M Pair

BONANZA



Safety Light' rechargeable lighting set

Ever since the battery lamp was first used on bicycles, its limitations have

been apparent and the subject of adverse comment by night riders. Even with improved design, the inadequate light intensity, faulty switches and the constantly increasing prices of batteries have all tended to make the undoubted convenience of such lamps a doubtful bargain. Now the Bonanza Safety Light offers all the convenience PLUS a 6 volt 3 watt output PLUS a battery that will last at least 3,000 hours! The heart of the system is a high-impact plastic container, fitting into a bottle cage, that holds five rechargeable ni-cad batteries. The only 'switch' is a 3-pin jack which plugs a twin-wire cable into a socket and feeds current to a smart all-plastic headlamp with a 2" lens and a neat BS 3648 tail-lamp. Both have springy plastic clips intended for use on handlebar and seat pillar or seat tube, and both can be stored within the battery container. The batteries can be plugged into the mains via the supplied charging unit, and after a 14-hour charge there will be a full output for at least 3 hours and this process is repeatable up to 1,000 times



Safety light' rechargeable batteries in plastic container with easyfit head and BS rear lamps (includes charging unit) Set 1X BZA X2440 5U £33-77

BULLSEYE



Roller bearing bottom bracket

A heat-treated high quality steel axle, centreless ground and guaranteed against breakage for two years, running in two SCE 109 INA needle-roller bearings and shielded by integral neoprene seals – should end bottom bracket troubles for ever, and that is what the Bullseye unit sets out to do. The rollers are 10mm×1 8mm, 22 each side, set in alloy housings that screw into the bracket shell. End thrust is taken care of by two additional bearings of 6 × 4mm steel balls butting against hardened steel washers and positioned by an internal sealing sleeve that is the key of the whole system. Chain-line can be varied. 300 gm.



Bottom bracket unit 41/2 Coded Red English standard fitting Each 1X BSE A765 5U

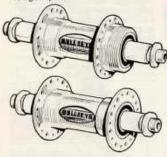
CCESSORIE



BULLSEYE - continued

Sealed bearing hubs

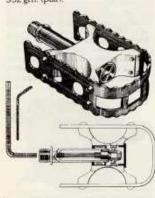
The first sealed bearing hub which can be serviced by the user. The bearings are 12×28×8mm, with non-contact labyrinth seals, and can he slid out of their housings when Allen-screwed sleeves are removed. The axles are of heavy duty steel of large diameter, have flatted ends to fit the fork-end slots and can be used with either a conventional quick-release device or with Allen bolts which screw into them: Front and rear bolts are of the same size The alloy bodies have 5 cm. diameter flanges, 4mm thick with 36 holes and the threaded portion can be replaced at the factory. The finish is satin polish with clear anodising. Remember to dismantle, undo one set screw, take out one Allen bolt and push; out comes a bearing and the axle itself. 400 gm. (pair)



Sealed bearing hubs (less QR fittings BSE A4630 5U £53-23

Sealed bearing pedals

Bullseye are known for good engineering and the effective use of sealed bearings, and their alloy pedals are no exception. Here a unique hollow spindle allows the mounting of a heavy-duty sealed roller bearing and a precision open ball bearing to give a basic dynamic capacity of 1925 pounds for each pedal. This great over-capacity results in long life and resistance to heavy shock loads. An outboard plastic cap provides 100% sealing with absolutely no friction. Good looking, light, touch, and easy to maintain and service, they have black cage plates, with the main body hollow spindle allows the mounting black cage plates, with the main body either black or silver. 352 gm. (pair).



Pedals - sealed needle roller bearings BSE A5650 5U £38-00 Pair

CAT EYE



Reflectors

Safety is greatly increased by using reflectors, which catch the attention even in bad daylight conditions, and certainly at night. Cat Eye offer a red rear reflector for seat-stay fitting or for polo seats stays, and sets of four amber pedal reflectors.

Pedal reflectors - RR 0217 GZA Amber 2-bolt fitting

Rear reflectors - RR 300 APR 3" dia. polo seat stay fitting 1X CTE A6150 20U

Trafficators - FBW-9 boxed set Set 1X CTE R8550 10U £8-35

CHIMIPLAST



'Dissoplast' narrow rim tape

100% cotton adhesive 17mm rim tape in the new narrow section for Elan, Elite type rims. Herringbone design, firmly edged to fit into the bed of the rim



Dissoplast for Elite/Elan rims Each 1B CT A6505 30M €0-52

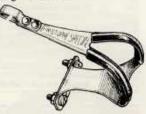
CHRISTOPHE



Toeclips

Chromed steel

The world's most popular toeclip the Christophe Special is in spring steel heavily chromed on copper and is available in 3 lengths, short medium or long. 88 gm. (medium).



50 DAC Short pa CE A7950 20M £1-74 18 50 C Medium pattern

18 50 SC Long pattern

Pair

CE A7952 ZOM £1-74 18

CE A7951 20M

£1-74

Alloy
For the lightweight fanatic, the famous Christophe design quality is now offered in light alloy, in two



49C medium CEA7970 20M £3-47 Pair 1B 49S long

CE A7975 20M

£3-47

18 Pair

Protector strip Now available is a plastic protector strip easily fitted and giving full protection to both shoe and clip

44.020 plastic strip Set 1B **CB A7955** 20U

CINELLI

Handlebars

for the track

€0-21

Cinelli handlebars are in superbly-finished dural, and have a centre ferrule which is 26 4mm diameter and beautifully engraved. There are five road versions and one Model 63 'Campione del Mondo' A square bar with a good forward reach. Available in 38 and 40 cm widths 324 gm.

Model 63 - Campione del Mondo Each 1X CIA3700 20M £8-45

Model 64 'Giro d'Italia'

Slightly less square than the 63, and less radical dimensions. A good all-round road rading bar. In 38, 40 and 42 cm widths. 329 gm.

Model 64 - 'Giro d'Italia' Each 1X CI A 3705

Model 65 'Criterium'

A shape which owes much to track racing and is favoured also by time triallists. The forward curve starts almost from the ferrule. In 38, 40 and 42 cm widths. 314 gm.

Model 65 - 'Criterium

1X CIA3710 20M Each

Model 66 'Campione del Mondo' A square bar, but much deeper and with more forward throw than the other road bars. In 38, 40 and 42 cm widths. 320 gm

Model 66 Campione del Mondo Each 1X CIA3715 20M

Model Aero

Following the move towards more arerodynamic components, Cinelli have produced a handlebar based on the Model 65, but with a section which owes much to the streamlined shape of an aircraft wing. In 40 cm 315 gm

Aero

1X CIA3718 20M Each

Model 67 'Pista

A very deep bar for use by track riders and those who require a very low position. In 39 cm width. 320 gm.

Model 67 'Pista' Each IX CI A3730 20M

£9-30

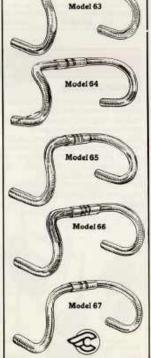
Handlebar stems (dural)

1A Road

Smooth lines, good looks, superb finish. Allen-key expander bolt and handlebar clip bolt, both 6 mm. Sizes 7 0 to 14.5 cm. 298 gm. (for 11 cm).



1A Road CI A4050 20M





CINELLI - continued

1R'Record'Road

An aerodynamic stem whose handlebar clip-bolt has been concealed underneath the extension. The 6mm Allen-key bolt works on a wedge which tightens on a large part of the handlebar circumference. Sizes 9-5 to 14-5 cm.



1R'Record' Road in sizes 9:5 to 14:5 cm CI A4060 20M

'Domino

This stem is hinged at the handlebar clamp to allow handlebars to be inserted or removed without touching the brake lever assembly. It is mostly of light alloy, with the upper part in semi-rigid polyurethane, ln 9/10/11/12 cm.



Domino IX CI A4063 20M £18-53 Each

2A Pista

A more steeply sloping stem, but otherwise similar to the I.A. Sizes 10 to 13 cm. 288 gm.

CI A4080 20M

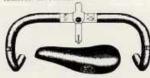
2A 'Pista' Each 1X £11-67 Handlebar stem spares 1A/2A Expander bolt Each 1X CIA4110 £0-75 1R Expander bolt Each 1X CI 84115 £1-97 1A/ZA Clip bolt 1X CI A4120 Each €0-55 1R Clip bolt Each 1X CI A4125 £0-68 1R Slide wedge Each 1X CIA4150 €2-68 1R Stem cover Each 1X CIA4135 £0-40 Allen key 6mm Each 1X C

CI A4140

£0-57

VIP Ensemble

For the rider with an eye for good looks, a matching set of Record stern, with handlebars and Cirielli No. 3 saddle covered in matching buffalo leather. CI A4085.



VIP Ensemble CI A4085 5U £75-40

Tandem rear handlebar clamp

A superbly machined light alloy clamp to take the rear handlebars on a tandem. It is designed to accept Cinelli bars or others with a 26-4mm centre bulge, and a 27-2mm seat pin Complete with two Allen key bolts. 170 gm.

Tandem clamp Each 1X CI A4088 SU £27.72

Handlebar end stops

The finishing touch to any classy handlebar set-up, push-in end plugs in chrome-plated plastic

€0-28

Chromed handlebar end stops Pair IX CIA3861 25U

Handlebar tape

'Cork Ribbon'

Aluxuriously soft feel is the deceptive advantage of Cinelli's 'Cork Ribbon' handlebar tape: It is made of a cork-rubber compound which is waterproof, tear-proof and sweat-proof. The natural cork colour is eye-catching and blends with any colour scheme. The tape itself has an adhesive centre band and builds up to a smooth, gently yielding cladding. Delivered in a pack containing two rolls, enough for one pair of bars.

Cork Ribbon

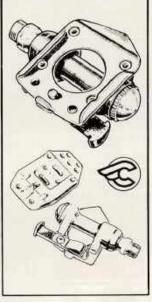
Twin Pack 1X CIA4255 5U £3-93



Pedals

M71 Sprint

Pedals of unique design, which hold the foot firmly without the aid of a toeclip or strap. The alloy platform has a locking clip, which would release the foot in the event of a sideways fall. It locks to a nylon shoe-plate (supplied), which will suit any shoe, and keeps the foot firm on the pedal once locked. 400 gm.



M71 Sprint - complete with RO 1000 shoeplates 1X CI A5600 £16-58 Shoeplates only for M71 pedals Pair 1X CIA5605 £0-64 Dust cap for M71 pedals £0-79

Saddles (without clip)

The original and still the best - Unica produced the first nylon/plastic saddle years ahead of the rest. Known as the world's most modern cycle saddle, only Cinelli/Unica have these "star" features

- Top moulded to the saddle frame giving a clean and finished appearance.
- Modern curved back without any protruding rivets or "flats
- Short charmfered sides to prevent any chafing.
- No breaking-in required the top provides a firm, comfortable seat without that springy feeling that absorbs pedalling power.
- Impervious to heat, cold or wet, the saddle always retains its original shape. Economy in weight.
- Non-rust stainless steel or alloy frame - fully adjustable.

Model 55

The original saddle top, without padding or covering, perforated, made of an indeformable technopolymer.

55 Road – black Each 1X C1 A6600 5M

Campione del Mondo model 65

Based on the model 55, but with a covering of either black leather, chamois or buffalo.



65/CM Black leather covered CIA6610 5M

amois covered CIA6615 5M Each 1X

65/N Black buffalo covered

£13-19

£13-19

£12-20

Each 1X CI A6620 5M

Tour de France

A Rilsan top, padded with high-density foam rubber, and then covered in black chamois, or smooth leather. 450 gm

No 2 Black chamois covered

1X CI A6640 5M

£13-88

No. 4 Black smooth leather covered Each 1X CI A6650 5M £ £14-92 Each 1X

Model C

Latest in the range of luxury competition saddles, this one is based on the Tour de France model, but with the Cinelli logo providing a patterned finish to the black suede covering. A very distinctive saddle for machines that need something special. 488 gm.

Road C printed leather Each 1X CI A6605 5M

ModelL

Model I.
The search for lightness has brought the Model I. Superleggera' saddle down to only Z20 grams, thanks to a revolutionary design. The twin alloy saddle wires merge into one near the nose, saving weight without losing either strength or adjustment. Suitable for all kinds of competition, the Superleggera has a Rilsan top and buffalo covering, and is available as an unpadded track model, or with high-density foam padding for road racing, where the weight is still only 330 grams. A top-flight saddle for the most demanding of riders



Track-unpedded Each IX CIA6655 5M £19-18 Road padded



CINELLI - continued

Grantour

The first Cinelli saddle aimed at the distance rider. It has the same alloy twin wires as the Model L, but with extra-thick padding on the rear, and top-class buffalo covering of the Rilsan top. 320 gm

Grandour

1X CI A6661 5M Each £20-80

A futuristic shape and a really aggressive price. The rear of the saddle has a completely new, more rounded style, and the nose has a distinctive shape. Underneath the suede covering is a densely-padded polyurethane top. 420 gm.



Saddle cover

Coprisella A stretchy saddle cover which protects the saddle in transit or even while being ridden. Will fit virtually all racing saddles. In assorted colours

Saddle cover Coprisella Each 1X CI A6607 10U

Shoe-plates Uniblock 2000

Nylon plate which fits over the central barrel of the pedal and inside the cage plates, instead of slotting on to just one cage plate.

Suitable for most top-class quill



Urublo	ck 200	0	
Pair	1.8	CT 8.7200	

Seat tube collar

Riviera

A collar which clamps the seat tube and seat pillar where a brazed-on clamp is not fitted

Each

1X CI A6875 €0-32

£1.97

Toeclips

Ergal

Cinelli's Ergal (light alloy) toe-clips are now available in colour, as well as silver anodising. Formed from a

single piece of 12mm thick alloy, with gently-radiused corners to avoid weak points, the clip is turnble-finished and polished before final anodising in silver, blue, gold or black. Short, medium or long



		er – short CI A7969	10M	£4-58
Anodi	sed silv	ver – medium		
		CI A7970		

Anodised black, blue or gold - short Pair 1X CI A7973 10M £4-75

Anodised black, blue or gold - medium Pair 1X CIA7974 10M £4-75

Anodised black, blue or gold – long Pair 1X CIA7975 10M





Brake shoes

Auto Freineur

An ingenious wedge-shaped well in this lightweight brake shoe uses braking forces to increased advantage. As braking tends to force the blocks forward in the shoe, the same action accentuates the sideways pressure on the rim. Blocks are 4-studded, and come in two types of shoe in sets of four.

ding			
1X	CLB A850	5U	£1.50
fixing	F-10-010	0.0711	
1X	CLB A855	SU	£1.50
	îX	1X CLB A850	1X CLB A850 5U

Brake transmissions Duralinox

The 'self-lubricating' principle of CLB outer casing for brake cables is achieved by means of a 2-8mm external diameter polyethylene sleeving which is slid over the inner wire. The sheathed wire is then introduced into the casing which has a 3mm internal diameter and is made from square section 1mm Duralinox extremely smooth on the inside and extremely smooth of the fisher and covered in clear vinyl. Supplied as complete systems, or in 12 metre rolls of outer casing and sleeving with sachet of 23 end fittings. 85 gm. (pair).

Duralinox S/L Transmission (complete inner & outer)

CLB A1206 5U £4.97

Outer cable only 12 m roll Each 1X CLB A1220 5U

£15-20



CONDAR

Bulb horn

A superb cycle horn. The best quality chrome plating, a fully adjustable non-slip clip, plus a perfect tone every time from the four pipes.



115Trumpet model 14 CR A4520 25M £5-16

CONFY



Saddles (less clip)

The latest nylon saddle in the popular 'Concorde' shape is covered in high-quality black suede, the top is firmly bonded to a chromed frame. The benefits of this design are better purchase from the back of the saddle. especially when climbing; and reduced friction, thanks to the narrow peak; maintenance of leg reach when on the peak of the saddle, which is slightly raised.



Suede covered top Each 1A CPY A6629 5M £13-66

CYCLO Bag loops



Many racing saddles do not have integral loops for saddlebag straps. This handy accessory remedies the

Bagloop attachments Set 1B CLO A205 £1-15

CYPARI



Bottle cage Alloy downtube bottle cage with clip fittings and plastic bottle guide. Anodised silver, blue or black



Bottle cage CPI A615 20U £0.78

Brakes

Sprite' steel side-pull

Side-pull brake with plated steel stirrups, the front depth variable between 55 and 75mm and the rear between 60 and 75mm. Blocks are 35mm long with four studs. Levers are in steel, of the touring type with ball ends and clips for 1516' bars. Cables have barrel nipples with alloy lever stops and white plastic housing.

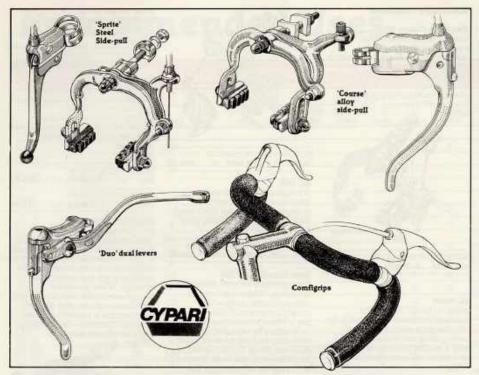
Sprite 10 CPI A807 1011 €5-76

'Course' and 'Course Extra' alloy side-pull A conventional alloy side-pull for

sports and touring machines. The front stirrup can be adjusted for depths between 50 and 60mm and the rear for depths between 55 and 75mm. The studded blocks are 75mm. The studded piocks are 35mm long and the pivot bolts 6mm diameter. Levers are hooded with band-clip fixing for 15/16" bars and hinged tension release. Cables are 15-strand 1-5mm in white plastic basking 8tted with the properties of the plant in the plastic basking 8tted with the page 25 per plant in the plastic basking 8tted with the page 25 per plant in the plastic. sheathing fitted with one pear nipple and alloy lever stop. The 'Course' has a standard racing lever, while the 'Course Extra' has dual-use 'safety' levers.

'Cours Pair	CP1 A811	100	£6-64
'Cours Pair	CPI A812	100	£7-64





'Duo' dual levers

The 'safety' lever arrangement which allows two different braking positions, including one when riding on the tops

Duo 2 way combination touring levers Pair 1C CPI A1326 10U 63-

Cables

Universal inner/outer A 60"/65" inner and outer brake cable, white casing, with a different nipple at each end

Universal inner/outer - in white with double ended inner wire 60"/65 Each 1C CPI A1330 20U £0-58

Universal brake inner wire A 65" double-ended brake inner wire with pear and barrel nipples.

Universal brake inner Each IC CPI A1101 25U £0.20

Universal gear inner wire

A 65° gear inner wire, double-ended to fit all popular derailleur mechanisms.

Universal gear inne Each 1C CPI A3300 25U £0-20

Handlebar grips

Comfigrips
Cellular close-texture plastic foam is extruded into various lengths to suit most types of handlebars, and the black or brown colouring will complement all colour finishes. The unstretched thickness of the sleeving is 8mm and the comfort when fitted is quite luxurious. Tough and washable, resistant to abrasion and perspiration the material is far superior to the 'sponge rubber' of former days. Supplied in 4-piece sets.

Set (4) IC CP1 A3942 5U £2:58

Handguard

Old-timers need sigh no longer for the Shockstop or Constrictor sponge grips of yesteryear: the Cypart micro-cellular types offer all the old comfort with longer life and greater durability. They can be washed with soap and water. In black, red, blue or yellow.



'Handguard'

CP1 A3945 5U £1.94

DIA COMPE



Alloy brakes - side-pull DC-500N

Unsurpassed performance at a price you can afford Redesigned to simple aerodynamic lines, with the popular 144 lever. 580 gm.

DC-500N×DC-500N×144

1X DCE A802 5U

DC-630N As above, but with the extra

mudguard clearance offered by the 630 depth. With 144 lever. DC-630N×DC-630N×144

1X DCE A803 5U QS-500N

Dynamic elegance, an enhanced finish, and the addition of a positive-action quick-release mechanism and wheel guides.

Coupled with the perforated 151 555 gm.

£11-70

QS-500N×QS-500N×151 Pair 1X DCEA807 5U

QS-630N

As above, but in 630 depth

QS-630N×QS-630N×151 £11-70 IX DCE A809 5U

A beautifully balanced design, incorporating all the QS features but with anodised finish, and using the slotted 152 lever with rubber hoods. 695 gm.

G-500N×G-500N×152 Pair 1X DCE A812 5U £17-28

GC-500N

Gran Compe design, high-quality buffing and anodizing, the central pivot bolt having an Allen-key locknut with a protective black cap. Using the rubber-hooded model 200 racing lever. A very handsome brake indeed. 755 am

GC-500N×GC-500N×200 Pair 1X DCE A822 5U

£27-78

GX-500N

GX-300N. but with the compact and attractive GX quick-release. lightened brake shoes, and the double-slotted 157 lever.

GX-500N×GX-500N×157 IX DCE A817 5U £20-51



GX-630N

N EV As above, but in 630 depth

GX-630N×GX-630N×157 1X DCE A819 5U

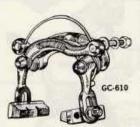
£20-51



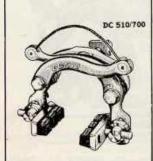












DIA COMPE - continued

New Gran-Compe 500N The ultimate in brake design, fully anodized, and with a slimline quick-release on the opposite side to other Dia-Compe models. The exceptional performance is matched by the design, the finish and the pleasing looks and feel of the Gran Compe 160 levers.



NGC500×NGC500×GC160 DCE A821 5U £36-27

GC-400N

Based on the GC-500N, with anodised finish and wheel guides, but with the quick-release and cable-pulling arm on the right-hand side. A relatively inexpensive brake set for close-clearance frames. 730 gm.

GC-400N×GC-400N×202 Pair 1X DCEA814 5U £28-80

New Gran-Compe 400
The top model in the 400 depth
(short-reach) series, which allows
stirrup depths of 40-50mm. Anodised
silver, it has a quick-release mechanism on the stirrups, and the brake shoes are fitted with wheel guides. The top-quality NG C200 lever in the modern vogue comes complete with 202.1 rubber hoods



NGC400×400×200 New Gran-Comp 1X DCE A828 5U

DE T Royal Gran-Compe 400

An aristocrat among racing brakes. Forged light alloy stirrups with 39-49mm depth, brake wheel guides, rubber-clad adjuster and quick-release which can be operated to intermediate positions if required. The exceptionally compact stirrup

arms are aerodynamic, as is the chromed head to the centre bolt. With the perforated NGC 202 lever. 670 gm.

RGC-400×RGC400×NGC202

IX DCEA815 SU £49-16 Pair.

AC-500

A budget aerodynamic brake with 48-57mm depth, offered with hooded and perforated 144G levers. Fast looks without a flyaway price. 610 gm.

AC500×AC500×144G Aero-Compo 1X DCE A827 5U

Aero Gran-Compe 300

Aerodynamics have set the keynote in the design of this most compact side-pull brake, designed for close-clearance machines. The stirrup has a 37mm nominal reach, varied only slightly by raising or lowering the oval-shaped shoes on an eccentric Allen-key fitting. The centre-both has an Allen-key fit, too, and is finished off with a conical adjusting nut. The raised portion of the streng has raised portion of the stirrup has minimal projection outside the line of the frame, and for the same reason the quick-release system has been eliminated. The short, rubber-hooded AGC 250 lever provides for the brake cable to pass straight into the handlebars. Superbly anodised. 610 gm. (pair).



AGC-300 Aero Gran Comp DCE A829 5U £45-88 1X

AC-300 Aero Compe G

A less expensive version of the AGC 300, but a very similar design with savings made on the polished finish and some of the fittings. With AC 250 levers for concealed cables 617 gm.

AC-300 Aeto Compe-G IX DCEA830 5U £31-19

Alloy brakes - centre-pull DC 610

Basic centre-pull, using drop-forged stirrups with 49-63mm depth, paired with 144 levers. Excellent value for all-round riding 730 gm.

DC610×DC610×144

1X DCE A831 5U £12-16

Similar 610 stirrup, but with a better finish, quick-release facilities on the cable hanger and on the 162 lever. which has rubber hoods and cable adjusters. 835 gm.

GC610×GC610×GC162 G. Compe Pair 1X DCE A836 SU £27:65

DC 510/700

The new range of centre-pulls. incorporating a clever stirrup synchronization feature, widely-adjustable brake block position, with the 160G hooded lever. In depths for short or average clearance. 860 gm.

DC510×DC510×GC160
Pair 1X DCE A833 5U

£21-22

DC700×DC700×GC160 1X DCE A834 5U

New Gran-Compe 450
One essential requirement of a centre-pull brake is that its actuating arms should pivot freely and without shake. Dia-Compe have produced the ultimate with a new design in which the arms pivot over sealed roller bearings. Wheel guides are incorporated in the shoe clamps and with the shapely hooded 200 lever the ensemble is superbly rigid and virtually frictionless – undoubtedly the most efficient of its type.



NGC 450 New Gran Compe Pair 1X DCE #839 5U £47-93

Braze-on alloy cantilever brakes

(supplied without levers – specify to choice)

DC 960

For ultimate rigidity, there's no beating the brazed-on brake. Simple, widely adjustable, powerful. Complete with braze-on fittings. Ideal for touring bikes, tanderns, cyclo-cross and light bikes. 320 gm.

DC 960 × DC 960

1X DCE A842 5U Pair £11.09

DC 980

As DC 960, but with a wider base and consequently increased power. Ideal for tandems or mountain bikes. 320 gm.

DC980 x DC 980

IX DCE A843 Pair

€12.71

DC981

An economy version of the 980, using wire, and with a single-ended straddle Allen-key pivot bolts. 320 gm

DC981×DC981

IX DCE A848 5U

£9·93



DIA COMPE - continued

NGC 982

NEW Top-of-the-range extra-leverage cantilever, silver anodised, for tanders or mountains. It has an ingensous eccentric pivot bush which allows the brake arm to be slightly raised or lowered, and thus fine-tune the positioning of the brake blocks. 420 gm.

NGC982×NGC982

1X DCE A849 SU

Cables for cantilever brakes

Set risain cables Front & Rear

1271-330mm straddle cable (for 980) Each IX

£1-34

1271-250mm straddle cable (960) £0:37

1274-380mm straddle cable (981/982) £0-37 Each IX

Brake levers - alloy

131 Junior Simple lever for straight handlebars. Two-piece handlebar clamp. Easy cable removal. 98 gm. (pair).

131 Junior

Pair 1X DCE A1330 10M

135 Standard

Another lever for straight bars, but with band clip, and stylish lines 124 gm. (pair).

135 Standard

Pair 1X DCE A1333 10M £2-69

139 Randonneur

A special lever which mounts either side of the stem handlebar clamp, for those who prefer to ride "on the

tops". 132 gm. (pair).

139 Randonneur

1X DCE A1360 10M £3-20

189 Reverse

For the neat look of concealed cables on straight handlebars of 18mm inside diameter. The bars need to be slotted for cable exit and to firmly locate the plug-in lever. 146 gm. (pair).

189 Reverse Pair IX DCE A1362 10M

165 Safety Dual-action levers which can be operated from the normal braking position of 1. 262 gm. (pair). osition or when riding "on the tops"

165 Safety

Pair 1X DCE A1350 10M £4-86

144

The basic racing lever, compact and stylish, and among the lightest available. 162 gm. (pair)

144 Pair.

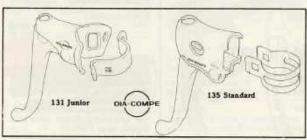
1X DCE A1335 10M £3-04

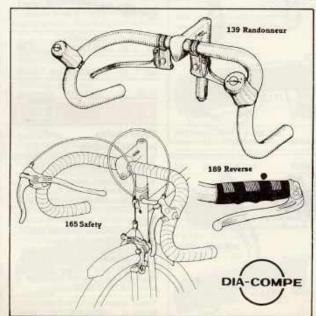
A better quality racing lever, double slotted, and with a rubber hood. 220 gm. (pair).

157

1X DCE A1339 10M £6.51 Pair







204C

A strikingly modern lightweight lever with rubber hood

The lever blade is chevronned for grip.

Pair

1X DCE A1347 10M £4-82

144T

Based on the 144 lever with rubber hoods, but specially for tandernists, trike riders, or anyone requiring one lever to operate two brakes. The set comprises a standard 144 lever plus another to take a special twin cable together with one twin cable (inner and outer) and a single cable. The cables supplied are the self-lubricating "Superliner" model. 260 gm. (pair).

144T Tandem (including cables) Set 1X DCE A1331 10M

Set of 3 inner cables for 1447

Set 1X DCE A1332

£2-00

GC 160

Gran Compellever with double perforations, rubber hoods, and a useful adjuster on top of the lever

260 gm. (pair).

GC 160 Gran Compe Pair 1X DCE A1340 10M £6-75

NGC 202

Top-of-the-range lever, with a double row of slots. The lever is satin-finished and anodised, and comes complete with rubber hood 196 gm. (pair)

NGC 202

Pair 1X DCE A1344 10M £9-56

AGC 250H

Aerodynamic lever, satin finished and anodised with slotted blade and provision for concealed cables. Complete with rubber hood. 224 gm. (pair).

AGC 250H Aero Pair 1X DCE A1353 10M

Mountain bike levers - alloy

These are for straight bars, and are similar to motorcycle levers – very long and designed for extra leverage They come complete with heavy-duty main cables.

280

Standard model

1X DCEA844 10M Pair £8-83

281

Economy model

281

1X DCE A854 10M

NGC 280

Luxury model

Pair 1X DCEA855 10M £11-00

Brake lever hoods

144.7H

Suits lever 144, 144G, 151, 152, 157

144.7H Compe-G

IX DCEA1410

£1-53

GC 202.1

Suits levers 200, 202

GC202.1 New Gran Compe Pair IX DCEA1415

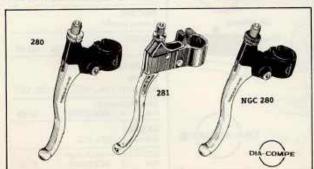
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£2-46

ESSORIES







DIA COMPE - continued

AGC 252.1

Suits levers 250, 250H

252.1 Aero Gran Compe 1X DCEA1420 £2-44

GC 162.3/4

Complete with rubber hood for adjuster. Suits levers 160, 162

GC-162.3/4 Gran Corr 1X DCE A1422 £2-44

Brake blocks & shoes GC 77N

Fit most side-pull and centre-pull

GC77N Gran Compe Each 1X DCE A863 £0-56

450.11

Pin-type for centre-pull brakes

450:11 Gran Comp Each IX DCE A865 €0-63

AGC-78

Fit Aero brakes

AGC 78 Aero Gran Comp Each 1X DCE A867 £1-92

980.11

For mountain bike/tandem brakes

980. I 1 Mountair

Set 4 1X DCE A868 £2.79

960.11

For cantilever brakes

960.11 Cantilever Set 4 1X DCE A869

NEW

Brake cables

Superliner

Extra-special cables which are self-lubricating, thanks to a vinyl tube between the cable and the outer casing. Supplied as sets of front and rear, with casing of black, white or metallic silver.



- black or white DCE A1248 10M Superliner £1-95 18

Set

DCE A1246 10M £2-22 18

DID

D.I.D

Cycle chains

Standard derailleur

Tough 1/sz" chain for use with all kinds of standard width derailleur blocks. Blued finish.

1/2×352″×114link Each 1C **DID A1904** 30M

Lanner

A slightly narrower derailleur chain using the patented Dai-Hard hardening treatment. The outer link plates are shaped for quicker and quieter changes. The chain plates are thinner and thus lighter. Finish is silver and blued steel.

'Lanner' special 1/2×3/52'×114 link Each 1C DID A1938 30M £7-02

ECLIPSE



Now available in the UK, the Eclipse range of touring accessories from the USA is acknowledged design and Usakis acknowledged design and performance leader in North America. Utilising proven concepts in technology. Eclipse sets the measure for quality and performance in touring racks and luggage.

Fabrics are carivas-weave Cordura ratorics are canvas-weave Cordura nylon or Oxford-weave nylon. Both are coated with polyurethane for moisture resistance. Zippers are YKK nylong coll with twin slides, covered by flags for most size. by flaps for protection from moisture and abrasion. Sewing and construction are of superior quality.

Handlebar packs Each Eclipse Handlebar pack includes

Spacious main compartment 254×126×203 cm, 7.4 litres

Steel support frame with epoxy coating to protect handlebars; fits any stem except those under 6 cm extension and those with bar clamp width over 132mm.

Elastic shock cords which fix around fork ends or to fork end cutouts or eyelets.

Detachable mapcase with twin. double-sided compartments. Total map viewing space over 1 200 sq. cm. (Spare mapcase EBT A225).

D-rings for attachement of optional shoulder strap (strap included with Professional model).

Removable polyliner for protection of contents and shape reinforcement.

Nomad

A great value for short tours or commuting. The Nornad incorporates the Eclipse Basic Features, plus durable mesh slip pockets on both sides, in red Oxford



Nomad Handlebar pack including mapcase Each 1X EBT A212 £20-65

Standard

A sophisticated bar bag for the tourist on a budget. The Standard has the Eclipse Basic Features, plus one large outside zip-pocket, inside slip divider for maps, wallet, keys, etc., supplementary Velcro tab for quick closure, in orange or blue Cordura nylon.

olume 8.9 litres. 586 gm.





Standard' Handlebar pack including Each 1X EBT A216

Professional

The choice of cyclists who appreciate the best. Eclipse's premier model offering maximum convenience and utility. Basic features plus two dividers inside main compartment for contents organisation, two zippered outside pockets for expanded capacity and compartmentalisation, slip pockets on both sides made of a durable mesh which stretches to contain bulky items; supplementary Velcro tab for quick closure, holder for pen/tyre gauge, of orange or blue Cordura nylon. Shoulder strap included.



Pro Handlebar pack including map 1X EBT A219

Handlebar bag spares -

ERT A225

1X £0-74

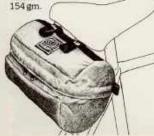
Handlebar pack shoulder strap Each 1X EBT A228

£1-23

Rear bags

Seat pack
A lightweight but sturdy container for sundries. Attaches to saddle loops

with nylon straps and buckles Excellent accessability through 19" zipper around three sides. Rugged polyliner holds shape and distributes weight of contents. In Red Oxford. Volume 4 litres



Seat pack Each 1X

EBT A234 £10-32

Rac-Pac A sensible pack to fit atop any brand of rear carrier. Interesting shape is maintained by rugged polyliner around side perimeter and in bottom. Entire top zips open for access. Quite securely mounted and yet simple on and off with Velcro straps. (Use D-Rings for fit to Eclipse racks.) Handle on end for easy carrying. In Red Oxford. Volume 6.2 litres.



Rac-Pac 1X EBT A238

Bike pocket

Blike pocket
An ingenious bag which straps
underneath a saddle, using a slide
buckle plus Velcro. A further strap
keeps the bag securely round its
contents – a cape, tools, spare tyre,
for example – and a small Velcro loop
attaches to the seat pillar for
additional stability. In orange, red or
blue condura. blue cordura.

Bike pocket Each 1X

EBT A241 £6-64

Pannier bags

Eclipse basic pannier features* Main compartment 280 cm tapering to 165×355×140 cm.

Volume 26 litres

Wedge shape for lower centre of

Cordura nylon with polyurethane coating

Panniers snap together for use as hand luggage

Aluminium stiffener in back panel. Mounting and stiffener hardware bolt in and are removable for service or hand laundering.

*Not applicable to Nomad.

Transcontinental and Professional panniers incorporate the advantage of the Eclipse Internal Support Frame. This sturdy 65 gram aluminium forming transfers the content's weight to the stiffener while supporting the pack's upper perimeter. This intelligent use of fabric in tension distributes the load within the pannier distributes the load within the partier thus minimising bag sway and sagging. The Eclipse Internal Support Frame maintains the pack's shape even when empty and permits easier loading. It folds up when not in use.

Nomad

Nomad Great value in a large, lightweight pannier unit. Makes the bicycle a versatile tool for everyday use. Unique moulded handle for comfortable carrying of groceries or school books. D-Rings for attachment of optional shoulder strap. The Nomad drapes over any rear luggage rack and secures in seconds with Veicro to the rack and seat stays. Red Oxford, 280mm tapering to 210×280×140mm. Volume 18.8 litres



EBT A251 IX

Standard

£12-54

A very popular pannier design.

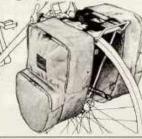
Eclipse Basic Pannier Features with a zipper along top and down along the outside front edge for improved access to the pack's lower contents. Large low-placed zippered pocket. Orange or blue. Volume (pair) 30 litres. 1050 gm. (pair).



'Standard' Pair 1X EBT A258 £55-30

Superlite

A smaller version of the Standard for those who travel light or need front panniers. Same features as Standard with a rugged but lighter poly-stiffener. Orange or blue. Volume (pair) 16.6 litres. 850 gm. (pair).



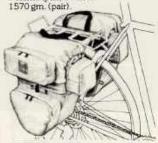
'Superlite' panniers Pair 1X EBT A255

Transcontinental

Eclipse has spared nothing to make these the finest panniers in the world.

For the discerning cyclist, each
pannier has the Eclipse Internal
Support Frame and six individual compartments. Truly a "home away from home". As well as the Eclipse Basic Pannier Features, the Transcontinental has a divider which can be zipped to separate the main compartment into top and bottom

spaces. Access to the top of the pack is under a quick release cover flap, through a drawstring mouth extending upward adding 3.2 litres per pack. Access to the lower compartment is via a 52 cm heavy-duty zipper. Three outside pockets per pack afford further capacity and division of contents. Orange or blue. Volume (pair) 36 litres.

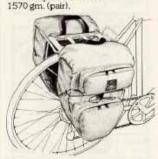


1X EBT A264 £95-86

Professional

£25-80

The same outstanding features as the Transcontinental except the mid-pack divider and small outside pocket are eliminated. Orange or blue Volume (pair) 34.7 litres.



Professional panniers Pair 1X EBT A261

Pannier rain covers

Though quality cycling luggage is made of waterproof fabric, the finished product can leak through seams and openings. Eclipse acknowledges the need for weather protection with these lightweight bonnets tailored to Eclipse Panniers. Proofed yellow nylon. The pair folds down to palm-size. 108 gm.

Pannier rain covers
Pair 1X EBT A268

£11-80

€77-43

Carriers

£44-24

Basic features of Eclipse racks Built-in channels for Eclipse Slide Mount Panniers and slots for D-rings to carry other make panniers. Main chassis and struts of extruded and tempered aluminium alloy. Telescoping attachment for level fit to frame.

Extendable end rail for 20% more load bed size.

Hand-welded Heli-Arcjoints for strength and dependability. Stainless steel screws and hardware.



Professional touring rack
The most evolved luggage rack
available, Added to the Basic Eclipse Rack Features the Professional has a truss-like strut load support. Mountings for brake bolt or seat stay. Eyelets for mounting of mudguards.



Professional touring tack (seat stay fitting) 1X **EBT A275** Each

Professional touring rack (brake bolt fit EBT A278 E24-28

Nomad commuter rack

The lightest of Eclipse rear racks, the Nomad includes all the Basic Eclipse Rack Features in a more economical form. It mounts to the seat stays and offers very good strength and rigidity thanks to the Eclipse welded, rather than riveted, construction.



Nomad commuter rack Each 1X EBT A281 £14-94

Front touring racks

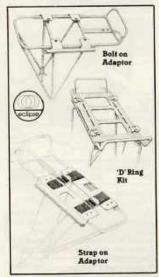
Partner to Eclipse rear racks, the front version offers Basic Eclipse Rack Features and a flared mounting rail to clear side pull brakes and the fork crown. Support struts are a single rod bent through ferrules welded under the chassis. The snug rod-to-ferrule fit gives excellent lateral anti-sway yet enough rod rotation to prevent damped fork blade flex common to front racks



Front fouring rack Each 1X EBT A284 £18-68

Rack adaption kits

Two types of fitment allow addition of Slide Mount pannier channel to non-Eclipse racks.



Bolt On Adaptor clamps to Blackburn style luggage racks.

Bolt-on adaptor kit Each 1X EBT A290

Strap On Adaptor buckles to any conventional luggage rack.

Strap-on adaptor kit Each 1X EBT A287

D-ring Kit, four steel loops which bolt into Eclipse rack chassis providing points down straps, or the Rac-Pac. Hardware is included

D'Ring kit £1-49 1X **ERT A293**

ENUMA

Golden Grand chain

A top-quality derailleur chain with smaller outer links coloured gold, and black inner links which are slotted for

Golden Grand 1/2×3/32*×116 link Each 1C EAA1900 10U £5-22

EQUIPE 5 Spokes

A range of utterly reliable spokes in a wide range of sizes and available in rustless, chrome-plated or stainless steel, with nickel-plated brass nipples.

Chrome-plated (double-butted) Corone-plated (tooks in ideal conditions, chrome-plated spokes are unparalleled. But on some chrome-plated spokes the finish cracks easily, especially where spokes bend, and there are problems with breakages in the centre of the lightering facetion. Which have lightened section. Which is why our double-butted spokes have a gently-tapered transition into the butt, and are slightly thicker at 15.5 gauge (instead of 16 gauge) at the thinnest point. In addition the chroming is

such that it will not crack until bent at an extreme angle, a factor which keeps them looking top-class for longer. In red boxes of 100.

Chromeplated 14/15-5/14g 100 1X EQE A7550 5U

£9-77

Stainless steel (double-butted) This is the choice for a great finish which is easily maintained in all weathers, and many top builders would use nothing else for racing wheels. Ultimately, only rustless steel spokes are stronger. In double butted 4/16/14 gauge. In blue boxes of 100

Stainless steel 14/16/14g 100 1X EQEA75105U

Rustless

The spokes for all-round purposes Rustless galvanised spokes can be used for every kind of bicycle. In plain 14 gauge. In green boxes of 100.

Rustless 14g 100 1X **EQE A7520**5U

€2-59

FAG

£3.74

£3-74

ENUMA

Bottom bracket unit

Sealed bottom bracket sets can be within everyone's price range now, thanks to a major innovation by FAG Kugelfischer, makers of the acclaimed Nadax sealed bracket unit. The unit fits conventional screwed bracket shells. It comes in two pieces, a right-hand cup/sleeve which is first screwed in, and the remainder of the unit which screws in from the other

Once inserted, the unit works on manufacturer-adjusted clearances. No adjustment is needed, and it is greased for life, so is maintenance

The flanged sleeves are made of glass-fibre reinforced polyamide, which is also used to cage the deep-groove ball bearings. The corrosion resistant axle has a tapered square seat for cotterless cranks, and a cottered unit is also available if required. Axle length is 119mm, suitable for almost every sports machine.



Cotterless — 119mm axle English threa FAG A769 SU £6-86

Cottered - 115mm axie English thread Each 1C FAGA770 5U 66 £6-86

564414 Fitting tool Each 1B FAG A796 5U £6-94

FAST NO-STOP

Instant puncture treatment

"The spare wheel in the can" sounds almost too good to be true, but the Fast aerosol will seal most punctured tyres of all types without harm to the tube or fabric. The 95cc 'bornb' has a connector fit to Presta valves and sufficient capacity to inflate at least

two tyres, sometimes four with careful handling. The cylinder is 32mm diameter and 145mm long. It can be clipped to the bicycle in a special plastic holder if required. Available also for Schrader valves. 95 gm (with holder, 135 gm).



Presta valve model Each 1B NFT

NFT A4920 10U

Schrader valve model

Each 1B NFT A4923 10U

Holder for abo

NFT A4930 10U €0-79 Each 18

FLAMME

£1-60

£1-60

Dural sprint rims

Bussola

Tough 21mm road racing or training rim with double eyelets, spoked 28/32/36/40. Polished finish. 360 gm.

l Bussola

£11:58 18 FE A6360

Ergal
Light rim for time trialling, pursuit or special road racing, 20-5mm wide, double eyelets, polished finish.
Spoked 28/36. 280 gm

0/1 'Ergal' Pair 1B

FE A6375

£31-69

Hard Silver

A versatile road rim, similar to the Bussola but with the advantage of a hard anodising treatment. Spoked 360 gm

21 'Hard Silver' Pair 1B FE A6377

£29-17

Dural wired-on rims

Type 71
Traditional alloy HP rim, available in 32/36/40 spokes 520 gm.

71.27×1¼"H.P.

FE A6380 18 Pair



Cycle chain

A thoroughly reliable 1/4" chain for use on standard bicycles without multiple freewheels

15"×16"×114 link

Each 1C FRSA1915 10U

£1:44



BERNARD HINAULT



Toeclip covers

Six ounces of tough, flexible plastic, 2mm thick and shaped like the front halves of orthodox overshoes with extended tongues provide ample foot protection against rain, snow and roud. They fit snugly over toe clips and are held by toestraps passing through slots at the rear, and by the pedal ears or an extra strap through slots at the front. Finished in a high-gloss black and with 'Bernard Hinault' in yellow lettering along the sides, they are an elegant solution to problems of cold, wet feet - and dirty shoes



Toe clip covers Pair 1X HT A8110

IDEALE



Saddles

88 Special Competition

A superb leather racing saddle, softened by hand, and with large copper rivets. Extra-supple leather is used, treated by slow tanning.



1A TE A6622 10M £22.70 Fach

90CR Special Competition As model 88, but with deeper saddle wires more suited to leisure riding, and with the zinc-plated No. 3 saddle clips which is widely adjustable and has a loop for a cape-roll strap. 700 gm



90CR

IE A6650 10M £16-80

90IR Special Competition

Reckoned the lightest leather saddle in the world, thanks to its duralumin frame and fittings, and one of the most luxurious because of the hand-softening. Based on the 90CR. With No. 4 duralumin clip. 500 gm

1Ă IE A6665 £21-39 Each

2000



IE A6720 10M £4-37 Each 1A

2002

As model 2000, but with Latex foam padding and a leather covering 560 gm.



2002 Each

1A IEA6730 10M £16-99

2003A

As 2002, but with all-chrome frame and special hide top. 560 gm.

2003A

Each 1A IEA6735 10M £18-00

2002 Titanium As 2002, but with a titanium frame and without a clip. 325 gm.

2002 Titanium Each 1A IEA6756 10M £27-00

2003A Titanium

As 2003A, but with a titanium frame and without a clip. 305 gm.

2003A Titanium

1A IEA6757 10M £28-06

12UM1



Chains

lzumi is the world's largest chain manufacturer, producing not only standard cycle chains but also others for specialist cycling purposes.

Special track

Silver/black finish, 1/2"×1/4", 110 link with screwed connecting link. Surface-hardened chrome-moly rivets.



110 link×3% - black/säver

IZI A1901 10U

Standard

Izumi quality on standard blued finish, either 1/6" or 3/12".

114 link x W Standard blued Each 1C IZIA1903 10U

116 link × 1/h2" Standard blued IZI A1928 10U €2-58

£2-40

£5:70

Nickel-plated A superb silver finish created by coating the link plates with nickel, for good looks and corrosion resistance. For use on standard-width freewheels and derailleurs

116 link×3/12" Nickel plated

1C IZIA1951 10U

Sigma special derailleur

One step up from a standard derailleur chain. The rivets use special carbide steel for durability, and inner and outer links are chamfered to give smoother gear changing. You owe it to yourself to feel the difference. Silver/black.

114link×3hz" Sigma silver/black Each 1C IZIA1954 10U

GP All-Golden

A fabulous-looking derailleur chain completely coated with brass, Sheer luxury in links.

116link×V₃₂* GP Each 1C **1Z1A1957** 10U £6-56

Izumi VI

As the Sigma in construction, but with special narrow external dimensions for use with compact six and seven-speed freewheels. Fits standard freewheels too! Silver/black.

116link×%z" lzumiVI Each 1B IZIA1961 10U £6-34

JAGUAR



Saddles

Comfort

Shaped for comfort, with two raised densely-padded areas for ischial support. Nylon base, foam padding, leather covering. Complete with saddlebag loops - an extra feature for the leisure rider. 390 gm.

77 MAD X Comfort

1B JRA6791 5M £13-19 Each

Comfort W

As above, but with a shorter 'nose' and wider at the rear, aimed at lady riders. 320 gm

81L-APDX Comfort Win leather extra

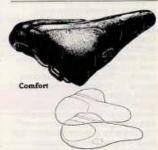
IR A6793 5M 1B £13-49 Each

Comfort Reserve

As the Comfort model, but with imitation leather covering. 400 gm.

77 CPD × K*Comfort Reserve

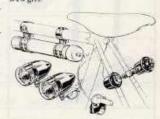
18 JRA6795 5M £8-24



JEAS

Blinker set

Directional blinker lamp set-two U2 type battery operated with two front and two rear lamps in amber. Universal frame tube fitting battery holder. Complete but less batteries 310 gm.



400 Blinker lamps set - directional

indicators

JS A8530 10U Set IC €6-92

KaH



Ball bearings

£0-34 10 KH A380 20M Gross 1C KH A381 20M Gross £0-46

Gross 1C **KH A382** 20M £0-62

Gross 1C KH A383 20M £1-06



Ball retainers

RT

Caged ball bearing to fit headsets such as Milremo Special, Tange New Levin, and others of similar

16×3/32"head race

KT A390 240U Each £0.10



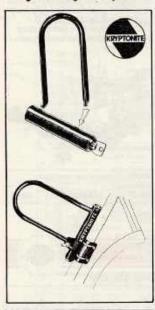
KRYPTONITE



Shackle locks

K-4
Top quality bicycles need top-quality locks, and the Kryptonite® K-4 is designed to stop even the most determined thief. Using high-strength alloy steel specially heat-treated, the U-shaped shackle is large enough to stack a machine his seat tithe and attach a machine by seat-tube and rear wheel to a secure post or fence, then locking at both ends to a crossbar. This double locking point means the K-4 is easy to fix, open and close. Breaking it open is a different matter, thanks to the high-quality seven-pin locking mechanism with a lock coding exclusive to Kryptonite® The lock is for treasured bicycles, and the K-4's virryl coating treasures finishing, too. The K-4 can be carried underneath a saddle, in a saddlebag, or securely fixed to a special seat-tube bracket (illustrated). Hacksaws and massive bolt-cutters have failed to break the K-4

£250 guarantee against bicycle theft.



Locking Mechanism: 7 Pin Ace Tubular Keyway

Material: High strength armor steel, fully hardened, 120,000 psi

Finish: Fully plated to prevent rust. Coated with 060 PVC to prevent marking

Shackle will fit around poles up to 10 cm in diameter (inside shackle dimensions 216×102mm)

935 gm.

K4Bike Lock £21-41

As the K4, but with increased dimensions, possibly for securing two bicycles at a time. Inside dimensions 292×102mm. 1070 gm.

K4-LS Bike lock - long shackle Each 1X KTE AS146 5U £23-73

For those who believe the other models are too MEN bulky, this model is compact enough (127×76mm) to slide into a back pocket, but still big enough to shackle a frame to a post. 675 gm.

Each 1X KTE 5140 5U £19-76

Megalock B.M.X. Similar to the K-4 in size and construction, but also available red, blue or grey, 935 gm.

Megalock B.M.X. - in colours Each 1X KTEA5142 5U

ALL THE ABOVE LOCKS HAVE A £250 GUARANTEE AGAINST CYCLE THEFT.

Megalock

Based on the K-4 in dimensions and operation, the Megalock comes in a grey vinyl covering and is less expensive only because it uses a quality flat-key mechanism instead of a tubular one. It carries a £100 guarantee. 935 gm.

Megalock

KTE A5144 5U £17-13 Each 1X

Carrying brackets

Our unique carrying bracket is not only more durable, it holds the lock in place more effectively than any other bracket on the market.

It comes in two versions, the standard wing-nut K4 CB, or the quick-release K4 CBQR

KTE AS 150 10U 1X £1.89 Each:

K4 CBQR Each

KTE A5155 10U £3-13

LASWISS



Saddle cover

Saddle life is longer if one of these inexpensive covers is used whenever bicycles are left out in the elements or is transported on a car roof-rack. An elasticated edging ensures a snug fit over sports saddles. Available in fluorescent orange-white, red/white, and blue/white showerproof nylon.



Saddle cover Each 1A LS A6808

£0-90

LIGHTRACE



Bottom bracket

TTS Super

The axle of the Gourgaud cotterless BB set is a drop-forging with polished ball-tracks and to the usual dimensions except that the difference in the two ends from ball-track to tip of axle is a mere 1mm, making it

virtually reversible. The squared-taper section is longer than usual at 21-22mm. Cups have polished tracks, the fixed one with two flats for a 35mm tool and the adjustable cup with a 24mm hexagon and a four-notch locking ring. Axle bolts have 16mm heads, and ball



TTS Super

£19-76

LE A765 50 £5-19

Axle only

18 LE A780 5U £2-86 Each

Headset

TTS Super Lightrace

Lightrace components have long been esteemed for quality and finish, and the new 'Super' headset can only enhance their reputation. Ground and polished races accommodate 5/12" steel balls in caged races. A deeply-serrated washer locks the adjustable top-race and a sturdy octagonal locknut completes the ensemble. The polished chromium-plate will complete the most impeccable finish—at a surprisingly moderate price. 175 gm



TTS Super Lightrace with ball races 1B LEA4467 20M

LION

Tubular tyre bag

A smart zip-ended bag in stout nylon fabric. A corded nylon strap with locking buckle holds the bag securely to seat pillar or saddle wires and there is a smaller zipped extra pocket 50 gm.

LION TYRES



1B LN A8830 10U

£3-70

LYOTARD



Pedals

Double-sided steel rat-trap, 90mm wide.

36 Pair

18 LDA5610 25M £2-80

136R

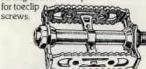
Double-sided steel sports pedal with reflectors.

136R Pair

LD A5615 25M 1B £2.80

460A

Racing double sided pedal with holes



460A Double si

LD A5620 25M Pair. 18 £3-11

Superb value light-alloy quill pedal, based on a one-piece cast frame.

1B LD A5622 25M £6-33 Pair

23AL

The classic platform pedal giving more support to the foot and a greater area on which the leg power operates. With long thread for



23AI

LD A5625 25M 18 Pair

45A

Steel quill pedal with alloy outer plate.

45A

Pair 111 LD A5630 25M €5-64

MARUICHI

Maruichi **Kickstand**

Dural-7 Bolted to the nearside chain and seat stays, the specially-shaped fixing plate does not interfere with wheel removal. The rod is 10-5mm diameter—and the holding spring is covered in black/orange vinyl. Made in light alloy, for 27-inch wheels.



1X Each

MI A7755

£8-18



MAVIC



Dural sprint rims

Montihery Route Workmanlike rim for all kinds of racing and training. Polished, with double eyelets, drilled 36, 21-5mm 420 gm.

Montihery Route
Pair 1B MVCA631510M £10-90

Montihery Pro

Lighter all-round rim, based on the Route, but 20mm wide. Drilled 32/36 395 gm.

Montthery Pro Pair 1B MVC A632010M £12-05

Argent 10

Lightweight 20mm rim, silver anodised for greater surface hardness and easier upkeep. Double eyelets, spoked 28/32/36. 310 gm.

Argent 10

18 MVCA632210M £19-42

GP4

Grey rim, coloured by hard-layer oxydation, which greatly increases the rigidity. Double eyelets, drilled 28/32/36, 20mm wide. For demanding conditions.

Pair

1B MVCA633310M £27-32

CX 18

Another hardened grey rim with an 18mm section, suitable for track or time trials, and for use with tubulars 18-20mm wide. Extremely rigid Double eyelets, drilled 28/32/36. 300 gm

CX 18

18 MVCA633610M £67-94

GEL 280

An extra-light version of the GP4, thanks to the use of lighter-gauge material. Drilled 28/32/36. 280 gm.

GEL 280

18 Pair

MVCA633410M £37-73

Blue Speciale Service des Courses

A top-quality de luxe rim for racing in the toughest conditions, and used by professional teams. Extra hardness through deep anodisation. 20m wide, double eyelets, drilled 36 395 gm.

Blue Special Service
Pair 1X MVCA634010M £102-66

Dural HP rims

Pair

A 19-8mm rim for tyres 20 to 25mm wide, for touring, club riding, even racing. Polished, double eyelets, drilled 36. In 27" or 700C. 430 gm.

18 MVCA635010M £14-18 Pair

E2-700C

Pair 18 MVCA635510M £14-18

G40

Similar in dimensions and construction to the E2, but with the same hardening treatment as the GP4 sprint, and consequent grey colour. It can be used with the lightest HP tyres for training or even racing. Drilled 36, and available in 27" or 700C. 430 gm.

G4027

18 MVCA636010M £29-86 Pair

G40 700C

MVC A636310M £29-86

Module 3D

A 22mm rim for the tourist using tyres 25 to 28mm wide. Silver anodised for easy upkeep and extra hardness. Double eyelets, spoked 36/40, In 27' and 700C. 530 gm.

Module 3D 27

19 MVCA637010M £19-28 Pair

Module 3D 7000

1B MVCA637310M £19-28 Pair

Module 4 As the 3D, but 26mm wide, for tyres of 28 to 35mm width. Heavy-duty touring, camping, tandems. Spoked 36/40 in 27" and 700C, plus 36 in 650B diameter

550 gm.

Pair 1B MVCA636910M £18-82

Module 4 700C

1B MVCA636610M £18-82

Module 4 650B

MVC A636710M Pair 1B £18-82

All rims

Extra for drillings Z4-28 or 32 Pair 1B

Extra for drillings 40 hole

£1.04

€0-59

MAXI-CAR

Tandem hubs



Light alloy added flange allowing a symmetric disposition of the spokes This system avoids the ovalization of the drum coming from the difference of tension of the spokes, a steel drum which ensures a safe and efficient which ensures a sale and efficient braking no heating of the rim which may induce the bursting of the inner tube of the tyre—available in 5 or 6-speed versions, 36 or 40-hole.

Front: Each		MCR A4650	£33-22
Rears	andar	d	
Each	1X	MCR A4651	£36-30
Rearw	ith hu	b brake	
Tach.	1X	MCR A4655	£76-62

MILLER



			0.00
		ing set MLR A2400	£5-30
Dynan	so set		
531-10	01-60	Omodel 10	0.000000
Set	1X	MLR A2403	£6-55
53-03-	600 n	nodel3	
Set	1X	MLR A2409	£5-57
Dynan	so bal	bs	
6v:05			
Each	1X	MLR A2445	£0-27
6v-01	Develo	necondenses com	13.8000000
Each	1X	MLR A2446	£2.27

Enthusiast cyclists depend on a network of specialist and expert cycle dealers to stock and supply their needs. We work constantly in support of these bona fide dealers with a full back-up and spares service on our exclusive agencies. Whatever your needs from this catalogue:

- Contact your local dealer.
- 2. If he does not stock the item, ask him to order the goods, by post or telephone as required
- In cases of difficulty, contact us for the name of your nearest dealer.

HING SUPPORTS YOUR LOCAL DEALER Jour Should Too! CYCLESTIO

This is not a mail order catalogue. Mail order companies cannot give the personal and unbiased services of a specialist cycle dealer.



MILREMO



'Club' bag support

A chrome-plated steel wire support which when fitted to the saddle clip bolt makes a rigid platform for the saddlebag



Chab) Each

MO A300 10U £0.76

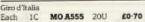
Ask for the bottle with the Milremo badge and you will be buying the best. Made in superior pearl white non-odour plastic, this bottle will stand enormous pressure and take hot or cold liquids. Two models are available – both ribbed for easy handling and to fit security in the control of the control handling and to fit snugly into cages.

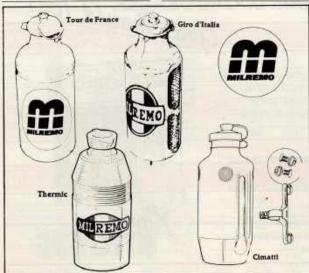
Tour de France

This model now has the famous double seal miracle cap with centre hole plugged. This plug can be removed by one's teeth and the Squid contents easily squeezed out without removing the cap. The cap is fitted with an extended lip for easy removal and is held by a blined day. and is held by a hinged attachment loop. Available with the famous Milremo badge in three colours. 62 gm. MO A550

Tour de France Each 1C MO A550 20U

Giro d'Italia The Giro bottle has non-slip finger grips on either side of the Milrerno badge and a pop-up stopper in the cap. The cap itself is 'tied' to the bottle and a hygieric feature is the absence of any ridge or obstruction inside the neck, allowing easy cleaning. 62 gm





Thermic

Patented unbreakable white plastic bottle specially insulated to conserve the liquid contents, temperature either hot or cold. 250 cc hygienic container made by Kostil is surrounded by lagging and the top sealed by a thumb push hermetically sealed cap. To obtain the best results warm (or cool) in advance the inside of the Thermic Bottle with warm (or cold) water. Milremo badged. 142 gm.

Thermic insulated Each 1C MOA560 20U £2-24

Cimatti

Thanks to the Cimatti patented attachment, this bottle dispenses with the conventional bottle cage or holder so saving not only weight but also the problems of cleaning, etc.
Fitment to the cycle is simple – just slide the bottle so that the recessed 3" long slot locates over the two studs fixed to the cycle frame down tube. The bottle itself is modern in shape and safe to hold and due to the conical base can be slipped easily into the back jersey pocket. A strong cap with drinking hole and removable cork both firmly located by loops attached round the bottle neck. Frame attachments either with two brazed on studs or with a single clip.

	MO A563	20U	£0-79
	mo A565		£1-96
	le braze-on fi MO A566		£1-50

Brake cable clips

Another Miliemo innovation. Made in the strongest plastic, this clip has been designed to dispense with the usual nut and bolt fixing. Held in place firmly by interiocking lips, it can be both fitted or removed without any difficulty. Ultra light and rustless, it cannot damage either cable or frame enamel.

196"45	ia loo	p at side	
		MO A955	£0-13
59" dia	Toop	at top	
		MO A960	£0:13



Brake inner wires

Front brake

tandard Balille Pear/Open CLB-Dia Compe-Galli-Mafac-Shimano-Sun Tour Universal Zeus

ach	10	MOA1100	F0-10
Bach	1C	Pear/Open MO A1105	77 cm £0·16
einn ach	iann IC	Barrel/Open MOA1110	65 cm £0-20

Pear/Open 135 cm

Rear brake

Standard-Balilla

Balli-M Shima Univer	lafac- no-Su	n Tour	
Each	1C	MO A1115	£0-20
Weimr	nann	Barrel/Open	140 cm
Each	1C	MO A1125	€0-28
Tande	m	Pear/Open	225 cm
Each	1C	MOA1130	£0-30

Mafac	Racer'		Round/Open	13 cm
Each	1C	MOA	1135	£0-16
Mafac-	Criterio	im	Round/Open	19 cm
Each	1C	MOA	1140	£0-16
Jacky-1 2000 (Pear/Pear	15 cm
Each	1C	MOA	1145	£0-16
Univer	sal 61 l	Balilla	Barrel/Barrel	10 cm
Each	10	MOA	1150	£0-16
Weiner 999 Di			Barrel/Barrel	14 cm
Each			1155	£0-16
Zeus			Barrel/Barrel	9 cm
Super Each			****	£0-16

Brake cable casing

Europ
Best quality ribbed plastic covered outer casing. Choice of colours: Red, black, white, yellow, green, blue and silver. In 20 metre rolls.

Europ 60 ft. (20 m) rolls in 7 colours Each 1C MO A1200 10U

Chain wheels, chrome-plated

No. 20	03.3-	arm 1/2"×1/6", sizer	48, 49, 50
52 Each	10	MO A1600	€1-84

No. CTV23 3-arm 1/2"×1/50", outer 50, inner

1C MOA1650

_	_	1 - 2 - 7 - 6	
No CT	V25.5	pin 1/2" X 1/12" 45	50 ot 42-52
Each	10	MOA1655	£4-04

€4-04

Cotter pins

9mm chrome (continental size) with plain Each 1C MO A2200 €0-12

Dynamo headlamps (with bracket)

Comet

Round design made from top quality chrome plated brass. 2½" diameter chrome plated brass. 2½" diameter curved grooved glass fitted into lamp front with shaped visor. The single 6v. 3·03 watt bulb makes contact with a strong current strip which is firmly fastened to the headlamp body allowing the cable to fit to a small screwed stud on the outside of the lamp body. No internal wires, all fully insulated direct contacts. Easy bulb replacement. Supplied complete with lamp bracket fixing clip. 126 gm. 126 gm

Cornet Each 1C MO A2400 €2:50



Dunamo only (with bracket)

Comet	chron	ne 6v3w8 poles	
Each	1C	MO A2410	£2-76
Meteo	r allo	y 6v3w 8 poles	
		MO A2415	£2-44

Dynamo rear lamp

Stay fitt	ing BS	5 3648 approved	with fixing
bracket Each		MO A2420	£1-20



MILREMO - continued Dynamo set complete Comet

Compact lighting set made of top quality materials. Comet dynamos is chrome plated and has a specially designed generator shaft with lubricated bearings giving continual power output of 6v. 3·03 watts at high or low speeds. The spring loaded release catch has sufficient tension to ensure that the grooved pulley wheel is always in contact with the tyre. Knurled grip to dyno bracket and safety stop incorporated to prevent falling into wheel. Supplied complete with British Standard stay fitting rear lamp fixing brackets and cable. 538 gm.



Cometall chrome set €6-46

Gear inner wires

Front change	r	
Huret Allvit Each 1C	DT Barrel/Open MO A3300	90 cm £0-19
Roto Simplex Each 1C	DT Ball/Open MO A3301	75 cm £0-19
Campagnolo Gian Robert Sun Tour Triplex-Zeus	DT Round/Open	75 cm
Each 1C	MO A3305	£0-19
Campagnolo Sun Tour	HB Round/Open	160 cm
Each 1C	MO A3310	£0-25
Rear gears		
Huret 'Allvit' Roto	DT Barrel/Open	120 cm
Each 1C	MO A3315	£0-22
Simplex Each 1C	DT Ball/Open MOA3318	120 cm
Prestige Each 1C	DT Ball/Open MOA3319	120 cm £0-22
Campagnolo Gian Robert Sun Tour Triplex-Zeus	DT Round/Open	120 cm
Each 1C	MO A3320	£0-22
Campagnolo Sun Tour	HB Round/Open	225 cm
Each 1C	MO A3325	£0-30

MO A3330 Key: HB - Handlebar DT - Downtube

Handlebars

All Milremo handlebars are in Duralinox AG5 duralumin and have a 25-4mm centre bulge

Benefux

Each 1C

A flat bar with the grips turned back towards the rider. Polished and engraved. 215 gm.

'Helvetia' polished & engraved Each 1B MO A3730 10M £3-08

A dropped bar designed for the tourist. Each side of the centre section the bar lifts to give a higher riding position "on the tops". 40 cm wide. Available polished or anodised. 290 gm.

Randonneur' polished & engraved Each 1B MOA3732 10M £4-93

Randonneur'anodised & engraved Each 1B MO A3768 10M MO A3768 10M £5-97

Franco – Belge Classic Maes-style bar, 40 cm wide. available polished or engraved. 300 gm.



e' – anodised & engrav MO A3737 10M Each 1B

Franco Belge —anodised & engraved Each 1B MO A3762 10M £5

Franco - Italia

A deeper road bar, very square, 40 cm wide, polished finish.

-anodised & engraved MOA3767 10M £ £5-97 1B

Handlebar end stops

Constructed in finest hard plastic in a patented and registered design that employs a tapered cone drawn

- internally.

 ★ Absolute security no fear of the stop becoming loose and eventually
- Clean appearance the head has a similar diameter to the external diameter of the handlebar.
- ★ Rustless.
 ★ Non-usage of perishable materials
- such as rubber.

 * Choice of attractive colours red, white, black, Oxford blue, ice blue
- and yellow.

 * Ultra light, 21 gm. Available in pairs, or on cards of assorted colours.

1C MO A3850 100M £0-23

Handlebar rests

€0-20

Perfectly shaped in special hard plastic with chrome steel bar clip, these hand rests fit flush to the bar and have rounded ends and sides. Ideal for a tandem back rider or for the fixed wheel enthusiast to supplement the machine with only one brake lever. Available in colours red, blue, green or yellow. 28 gm.

'Arresta' plastic with chrome tip IC MO A4000

11 Arresta



Handlebar stems

Milremo stems are made from the finest duraiumin obtainable, perfectly machined to precision dimensions. More than two million have been sold without complaint - proof indeed of their reliability. Three models available to suit every need from town to touring to racing - all at competitive prices. Complete with expander and clip bolt

£0-16

Polished cast alloy with attractive top and 5 cm forward extension with front opening. Stem length 145mm

Tourist 50mm 1B MO A4100 10M £3-17

First class polished alloy cast stem. The forward extension incorporates on the sides the Milremo name and has a horizontal opening clip. The clip bolt, is lipped and easily accessible. 220 gm.

Sport 70mm Each 1B MO A4105 10M £3-80 MO A4106 10M £3-97 1B

Super Sport

A superior forged duralumin stem made especially for the pros. Fitted with concealed expander bolt and clip bolt, both with Allen-key heads, the clip is neatly engraved. 240 gm (75mm).

18 MO A4109 TOM £5-40 Super Sport 90mm MO 84114 10M 1B £5-66 Super Sport 100mm MO A4119 10M

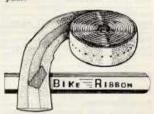
Handlebar tape

Extra strong thick twill tape in non-slip herringbone pattern with a backing of clear adhesive. Two rolls sufficient for a pair of bars. Six colours – red, white, blue, black, green and yellow.



Twillolux adhesive twill 21/2 metre roll MO A4260 50U

Bike Ribbon The bike ribbon is in washable micro-cell plastic foam, 25mm wide finished on the outside to resemble leather and with a 911111 wide strip of adhesive, with peel-off covering, on the underside. A padded effect is achieved by making the centre of the ribbon nearly 2mm thick, with the sides tapering to skin thickness so that when wound on with adequate overlap, the cushioning is quite apparent. In colours of red, white, black and blue. Two 6ft. rolls per



Bike Ribbon MO A4265 10U £2-58



MILREMO - continued

Head fittings

Special
A chromed steel set of excellent
quality at a reasonable price, with a
knurled adjusting race. A welcome feature are the caged ball bearings. 197 gm.

Special			
Set	18	MO A4405 10U	£2-00

Classic de Luxe
Top quality head set made in finest
quality chrome steel. Octagonal top races and locknut. 140 gm.



Class	icdelu	xe		
Set	18	MO A4410	100	€2-50

Hubs-small flange, solid spindle

Champion Made in heat treated highly polished Made in near treated night poissed duralumin, these are the most popular lightweight non quick-release hubs in use today. Available SS/Gear or DS/Gear/Fixed with drillings.



Front Each	18	MO A4600	£1-67
Rear St Each		MO A4601	£2:51
Rear D Each		MO A4602	£2-94
Pair SS Pair		MO A4603 100	£4·39
Patr DS		MO 84604 1011	€4-81

Hubs - small flange, quick-release

Super Champion

Top quality quick release hub similar to Champion but fitted with hollow axles incorporating a trouble-free quick-release mechanism.

SS/Gear only with drillings. 36/36.

Front Each	1B	MO A4610	£5-42
Reat S	S/G	Part Part Part Part	
Each	18	MOA4611	£6-25
Pair	18	MO A4612 10U	£11-86

Professional Road

Forged duralumin. Free running bearings with black dust covers and quick-release covers. SS/G only. Drillings 24/28/32/36. 519 gm.

Profess	sional	Road	SS/G		
Pnir	18	MO	A4632	10U	£29-90

Hubs - large flange solid spindle

Sport
The most popular large flange non quick-release hub available. Made in heat-treated duralumin offering lightness with durability. Highly polished flanges with elongated cut-outs, with a choice of three threadings. SS/Gear. DS/Gear/Fixed Drillings: Front 32/36

Rear 36/40. 472 gm.

	3.44			
Sport F Each		MO A4650		£2:33
Rear S Each	ENEXXX	MO A4651		£3-06
Rear D Each		MO A4652		€3-49
Pair SS Pair		MO A4653	10U	£5-59
Pair DS		MO A4654	100	€6-02

Professional Track

As Pro road model with solid spindles. Fixed only. Drillings 24/28/32/36. 470 gm.

		_				
Profe	ssional	Track	SS/F			
Pair	1B	MO	A4662	100	£32-98	

Hubs-large flange, quick-release

Super Sport

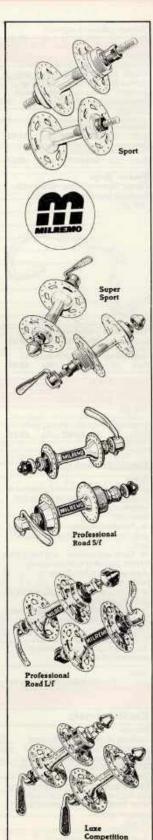
Similar to 'Sport' but fitted with quick release hollow axle and mechanism. Drillings Front 32/36

Rear . 619 g		
Super	Sport	Front
Each	IB	MO A4670
_	-	

Rear SS/G 1B MO A4671 £6-61 Each Pair SS/G 18 MO A4672 10U £12-77

€5-96

Luxe Competition
Made in heat treated alloy with all bearing surfaces processed in the most modern way. The high precision machining resulting in perfectly smooth running. Curved slotted flanges, one piece shell, slim smooth lines, all make this quick-release hub



the first choice for top racing machines. SS/Gear only. Drillings: Front 28/36. Rear 28/36. 625 gm.

		titon - Front MO A4680	£7-43
Rear S Each		MO A4681	£8-27
Pair SS Pair	i/G 1B	MO A4682 10U	£15-89

Professional Road

Frozestonal Road
Forged duraiumin elongated flange
cut outs. Free running bearings with
black dust covers and quick release
levers for safety. SS/Gear only.
Drillings: 24/28/36.
580 gm.

Professional Road Pair SS/G Pair 1B MO A4692 10U	£32-98
Hub Spares	
3414 Super-Sport front cone Each	£1-40
3464 Super-Sport rear cone Each	£1-40
3004 Sport front cone	£0-22
3054 Sport rear cone	€0-25

		MO A4703	£2.06
37061	Rearst	andard skewers c	omplete
Fach	18	MO 54704	€2-06

Each	MO A4707	£1-35
	hampion/Sport a	xie complete

Each	18	MO A4709	£1-92
3162	Hollow	ade complete rear	
Each	18	MO A4710	£2.76

3110 Hollow axle complete front

Key: DS/GF = Double sided threading for multiple freewheel and fixed cog SS/G=Single threading for freewheel SS/F=Single sided for fixed cogs

Lamp bracket

Bossi	ttind in	alloy		
		MO A5005	20U	£0-76

Mudguards

Easy-fit 16" of U-section plastic mudguard that slips over the seat-stay bridge and snaps on to the seat-tube and chainstays by tough, springy clips. Cannot scratch the enamel: ideal for distance races in the rain and rigid enough to act as a bag-support. Black or white 53 gm.



Easy fit £1-30 MO A5360



MILREMO - continued

Tufflex

A truly top-class mudguard for those who want good looks and durability. The laminated construction, which sandwiches a metal foil strip between unbreakable plastic, allows the guard to undergo unreasonable punishment without complaining. Fitted with a mudflap and BS reflector, Tufflex guards come with either English fittings or patented (and surely more rigid) French stays (illustrated).

thistrated).
The U-shaped stays loop over the outside of the guard, and fix at the fork-end with an ingenious device unique to this model. The section is close fitting, and suits the current trend for narrow tyres. Metallic ice blue, black with silver centre band, or silver with two black ribs.



MOA5365 5U

Tufflex

A narrow-section guard made in superior quality plastic. Available in red only



Monarca plastic with mudflap & reflecto Pair 1C MO A5370 £54

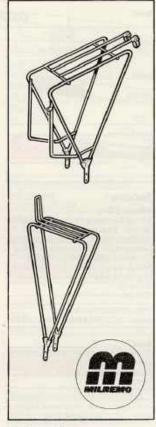
Pannier carriers

Fiol (front and rear)

Strong tubular steel highly chromed carriers. Front model with 3 point fork end eyes and brake bolt fixing or Rear model fitting on mudguard eyes and rear seat stays.

Supplied complete with all fixing clips. Front 594 gm. Rear 792 gm.

Fiol-front Each 1C	MO A5500	£3:20
Fiol-rear Each 10	MO A5510	€4-10



Pedals - chrome

€8-90

Chrome steel, double-sided with supporting centre strut and solid end

Cadet Pair

1B MO A5600 20M £2-80

Chrome steel, similar to Cadet, but with side-plates drilled for toeclips. 400 gm.

Club

1B MO A5605 20M £3-27 Pair

Aurora

Quili type with ample tread and ground clearance, and one-piece side-plates.

Aurora

1B MO A5615 20M £4-80

Pedals - dural

Apollo

Sturdy, double-sided, with 31/2" tread, stiff centre strut, detachable end caps. toestrap slots. Chrome-dural

415 gm

Apolio

1B MO AS655 10M Pair

Aurora

As Aurora chromed model, but with dural side-plates. 415 gm.

1B MO A5660 10M £6:00

Avenir Road

Road racing quill with the dural body Road racing quill with the dural body in the new modern bulged shape. Anodised black or polished dural cage strongly riveted to chrome steel cross struts. Toestrap retainer incorporated with pick-up tabs and toeclip attachment.

Smooth running bearings on chrome axle amply threaded for dural cranks.

Averar Road Pair 1B Pair

MOA5665 10M £14-77

Avante Track

Superb quality. One-piece forged dural body. Short 3" side plates for track clearance. Black or silver finish. 340 gm.

Avante Track - polished Pair 1B MO A5685 10M £22-14 Pair

AvanteTrack - black anodised Pair 1B MOA5690 10M

Pro UL

or seekers after the ultra light, these weigh only 245 grams, which we believe is the world's lightest. The X-shaped resin-fibre frame and detachable alloy

plates revolve on sealed bearings around a heat-treated steel axle. All extraneous metal is eliminated to produce the bare minimum for pedalling efficiency. 245 gm.

Pro UL

1B MOA5695 10M £36-69

Pumps-standard

Club

Silvered alloy pump for sports use, available in lengths of 15" or 18", complete with braided connection.

Club 15"×17/16

Each 1B MO A5800 25M £1-12

Club 18"×15/16"

1B MO A5805 25M €1-28

Top quality white plastic pump available in 12" or 15" length with attractive Milremo name in gold and supplied with braided 5" connection.

1C MO A5808 20M

1C

£0-78 Sport 15"×"/ MOA5810 30M

£0-78





MILREMO - continued

Pumps - frame - fitting with push-on adaptor

Cross

An inexpensive frame - fitting pump with push-on adaptor, black grip and handle and white barrel in eight sizes from 385-560mm (to fit frames

Cross

Each 1C MOA5848 25M £1-80

Gran Carrera

Highest quality frame – fitting pump again with eight sizes available to fit frames from 19" to 26". The black barrel has a silvered grip and handle and incorporates a push-on adaptor.

Gran Carrera Each 1C MOA5850 25M £2-18

Pumps-track

Stica-Pista

A powerful double handed pump for use where high pressures are required on road or track. Fitted with



Silca Pista with pressure gauge MO A588

r	um	P	sp	ar	25	
-		-	-	-		_

No. 24 Pista adaptor for track pump Each 1B MOA5915 £1-18 24/1 Washer for No. 24 adaptor Each 18 MOA5916 £0-14

Flexible hose inc. adaptor Each 18 MOA5917

Washer for Gran Carrera/Cross adaptor Each 1B MO A5930 £0-20

Plunger washer for Gran Carrera/Cross pump Each 1B MOA5932 £0-12

Pump connectors

5" standard MO A6005

Rims - dural sprint

Each IC

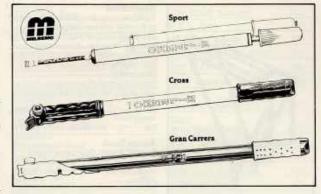
Tough, workmanlike all-round rims at a reasonable price. Double eyelets, polished, 21-5mm wide, with serrated braking surfaces. Drilled 25/32/36. 410 gm.

1B MOA6300 10M £10-28

Record Route A lighter version of the Giro. Drilled 350 gm

Record route

1B MOA6305 10M £10-28

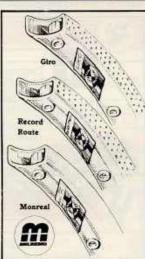


Montreal

Anodised road racing rims, with double eyelets, in silver, gold or black, 20-5mm wide, drilled 28/32/36 400 gm.

Montreal - silver anodised 1B MOA6325 10M £15-67





Rims - dural for wired-on tyres

Elite

£3-21

£0.24

The Elite rim is 27" × 1" 19mm width with deep cavity section and double spoke hole washers. This 36-hole rim is both ultra light yet strong and is to fit 20 to 25mm tyres



Pair

1B MO A6355 10M £9-30

Rim tapes

Rubber for 27"×11/4" rims Each 1B MO A6500

Saddles

Freccia d'Oro

This will certainly be the bargain of the decade. It has a perfectly shaped perforated plastic top that is moulded cleanly to the 2-wire frame avoiding any rough edges, flats or corners which cause chafing. Neat moulded bag loops are provided. Complete with clip. 450 gm

208/10 Freccia d'oro 470 Each 1C **MO A6600** 25M £1.98

As the standard Freccia d'Oro model but with the top covered in hard-wearing black skay. No bag 560 gm

208/1 Luxe -- black skay covered 541 Each 1C MO A6605 25M £3-58

Star Rider

Luxurious comfort allied with efficiency sums up this saddle. The nylon base is slightly more supple than is usual among this type, and the layer of plastic foam, topped by a black skay covering, adds to the comfort without loss of energy through sagging or swaying. A superb saddle at an unexpectedly reasonable price. 320 gm.

Star Rider Each 1C

MO A6647 25M €5-34

Pro Buffalo

The ultimate in racing saddle comfort. Made in the 'classic' style of the world's finest but at a more competitive price this saddle has no equal for value. The perfectly moulded top is covered with sandwich foam and then topped with buffalo leather for a good grip. 345 gm.

Pro Buffalo Each 1C

MO A6690 25M £8-74

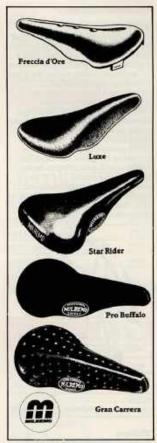
Gran Carrera A superbly made padded saddle cover in top quality smooth leather and extensively perforated for coolness, this is a must for the man who wants the best. 350 gm.

£0-14

Gran Carrera Each 1C MO A6700 25M £14-34

Extra for saddle clip

£0.56



Seat bolt

Club

Knurled headed chrome bolt with emblem capped nut.



Club Each

10 MO A6875 £0-30

Seat pillars

Gran Sport

Modern design with cradle pivot operated by easily accessible knurl-headed bolt Plain model or fluted pillar model.

Gran Sport plain Each 1B MO A7030 5M £6-58

Gran Sport fluted Each 1B MO A7035 5M

Spare bolts for Gran Sport Each 18 MOA7040 £1-15



£4-36

MILREMO - continued

Similar to the familiar Campagnolo design but with socket-head screws accessible from below the head, obviating the need for a special spanner and skinned knuckles. The clip affords an unslipping grip on 7 or 8mm wires and allows ample adjustment. The stem portion is polished with five short flutes and is engraved 'Milremo' in vertical lettering. 280 gm



Luxe fluted

MO A7038 5M

Spoke discs

Protecta
The disc that is perfect in every way. Diameter at 43/4" is exactly right. Material: Hard plastic that will not rust or buckle. Choice of three attractive colours, red, white or blue. Lightest ever.

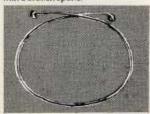


Protecta 43/4" dia. plasti Each 1C MOA74

MO A7400

Spoke solder

A few seconds heating by the flame from a lighter and a dab of this special silver solder will secure the crossing of two spokes sufficiently for all normal use and without the need for 'tying' with wire. Spokes to be joined should preferably be new and free from grease. This quick and easy method (just a few minutes for each wheel) offers the same advantages as the usual tying and soldering which calls for expert handling and takes much longer. The principal benefits are a more rigid wheel and the ability to finish a race or training session even with a broken spoke.



Spoke solder
Card 1X MOA7830 10U

Straps (leather)

Club 7"×96" bag straps – black or white Each 1C MO A7800 £0: Club 15"×%" cape straps - black or whit MO A7810

£0-32

Each IC Toeclips

Competizione The world's finest toeclip. Made in tempered steel, perfectly formed to avoid contact with the shoe toe, and finished in superb chrome plating on copper base. Available in two lengths. Medium 82 gm.

Competizione medium Pair 1B MO A7950 20M £1.74

Competizione long Pair 1B MO A7955 20M £1.74

Corsa

The economy toeclip. Made of tempered steel and plated. Complete with fixing plates. Medium only 104 gm.

Corsa chrome – medium Pair 1B MO A7960 20M

Italia

Utility and high fashion are combined admirably in the Milremo light alloy toeclips. Very smart in black or silver anodised dural, the strap-loop is double riveted and the Milremo logo adds note of colour. The shape is the one which has stood the test of time and the dural is impervious to rusting. Supplied with fixing boits and nuts, and alloy back-plates.



Pair IB. MO A 7965 20M

Italia - black MOA7966 20M Pair 18

Toeclips and straps (sets) Competizione medium clips with strap Set 1B MOA7980 10U £3

Competizione long clips with straps Set 1B MO A7985 10U £3-25

Corsa medium clips with straps Set 1B MO A7990 10U £2-96

Toestraps

Competizione
A superlative strap in supple. wet-resistant chrome leather with quick-release roller buckle. In assorted colours or natural



Competizione QR assorted colours MO A8150 20M 18

Competizione QR in natural leather 1B MOA8155 20M

A new design with special quick-release buckle in a choice of red, white, blue, grey or green. Great

Corsa QR in assorted colours 1B MO A8160 20M

Top quality chrome leather economy strap with quick-release buckle. In natural or assorted colours.

Club in assorted colours Pair 1B MO A8170 20M

Toestrap end buttons

Pull-stop
The handlest end button. Constructed in uitra light plastic – weight negligible – this handy accessory is ideal for that quick pull, or as a sure safety stop on release. With special steel self-threading locking screw available in red, white, blue, black and

Pull-stop plastic Pair 1C MO A8200

Transfers

DF2 large -41/2"×11/e" vertical Milremo motif with Olympic bands Each 1C MO A8605

€0-0B DF3 large - 41/2" × 11/4" vertical Milremo

motif with Olympic ring Each 1C MO 88610 60-08

DF6 large transfer 31/4" × 11/2". Especially for bottles.

Each 1C MO A8626 £0-08

Rim transfers

Models Giro - Record route - Super record Piste Super racing Munich – Montreal Super club – Elite – Super champion ach 1C MO A8650 £0-08

Trouser bands

Bicy orange reflective with steel insert Pair 1B MO A8750 300 60-

Tubular tyre covers

A superior quality article – smooth black centre band, strong P.V. C. walls, metal fastening clips – makes wheels smarter and tyres safer when being transported.



MO A8900 5U £7-41 1B

Tyres - high pressure

The responsiveness, durability and lightness of fine nylon cord, plus inginities of the hybridistry of the casing and the tread, combine to produce two lightweight tyres for the rider demanding speed, yet not wanting to

fit tubulars. The woven nylon casing is overlapped underneath the tread, where resistance is most needed, where resistance is most needed, then covered in a protective rubber coating, finally topped with an ingenious tread band featuring herringbone side bands flanking a raised centre ribbed strip. The result is a lively tyre which should last and last.

The Milremo Escort is a 27×11/4/ cover which fits 11/4" rims and weighs, complete with a tube and rim tape, only the weight of a training tubular. (Conventional tyre weight is 560

grams). The Escort is also available in 700×28C size for convenient exchangeability with tubular racing

Tyre weight only 275 grams.

Escort 27"×11/6" gum walls Each 1B MOA9100 10M €5-54

€0-20

Escort 700×28C Each 1B MO A9106 10M €5-54

TCHING

MILREMO - continued

Even lighter, at 380 grams including a tube and tape (tyre weight only 265 grams) is the Milremo Elite, a 27×1 inch cover specially designed for the narrow 21mm high-pressure rims. Also available as 700×25C.

Elite 27"×1" skin sided

Each 1B MOA9110 10M

Elite 700×25C

Each 1B MOA9116 10M £5-54

For the rider who aims for durability rather than lightness, the Extra is the choice, once again using nylon casing but topped this time with a fast but substantial tread. A ribbed centre section is flanked by file, and the amber sidewalls are well rubbered. Ideal for the clubrnan and tourist.

Extra 27×1¼" amber wall Each 1B MO A9118 10M

Tubes - high pressure

Escort 27×11/8 1B MO A9170 10M £2-08

Escort 700 × 28 Each 18 MO A9175 10M £2.08

Elite 27×1 MO A9180 10M £2:08 Each



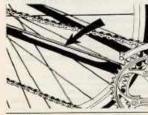
MINOURA



Chainstay protection

Chainplate

A shaped and flexible piece of stainless steel which carries its own adhesive and is fitted on the right hand chain stay to protect the frame against damage from the chain when the rear wheel is removed. An inexpensive accessory which will give good service

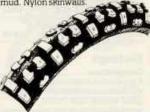


Chainplate MA A1951 20U £0-84 1C Each

MITSUBOSHI

Mountain bike tyre

Grippa A sturdy 26×2.125" tyre for off-road use. The centre tread has raised studs, with flanks sporting a special tread block which tends to throw off mud. Nylon skinwalls.



Grippa 26×2.125

1B MBI A9225 10U £10-27

MKS



Pedais-steel

Quill-2

Steel quill pedal with one-piece cage plate. 480 gm

3001 Quill-2 Pair

MKS A5605 20M £4-65 1B

Pedals - dural

Quill-2K

As Quill-2, but with alloy barrel and cade plate.

3002 Quill-2K

1B MKS A5630 20M £5-86 Pair

AR-1

Aerodynamics comes to the guill pedal in this latest inexpensive light alloy model. The front half of the quill is swept back stylishly, while the front and back plates are tapered towards the offside. A toe-strap retainer and pick-up tab complete the specification of this roadman's pedal.



2022 AR-1

MKS A5631 20M £7-25

Sylvan

Quill pedal for road use, with pick-up tab, drilled for toeclips. Excellent value. 360 gm.

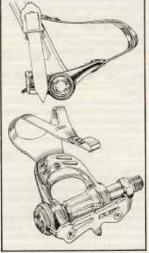
2021 Sylvan-polished finish Pair 1B MKS A5632 20M £9-27 Pair

Unique Royal track

Single-sided track pedal with polished alloy body and side-plates. Push-up tabs, drilled for toeclips. Side-plates available silver or black 350 gm

2021 Unique Royal-track-polished Pair 18 MKS A5650 20M £23-36

Esquartz
The smooth, aerodynamic lines of this pedal and its matched toe-clip shout speed, borrowing from the platform design and the quill. The toe-clip (medium or long) gives 6mm forward adjustment, 5mm laterally. The rear resembles a standard road pedal, with pick-up tab, but the body is narrow and streamlined. 380 gm (with toe-clips).



2023 Esquartz with medi 1B MKS A5680 5M £30-90

2023 Esquartz as above, long

IB MKS A5681 5M £30-90

Esquartz Amateur 102

Similar in principle and design to the Esquartz, the 102 is a "junior" version for tighter purse-strings, with a cast one piece alloy body and a carbon steel spindle. The same alloy toe-clips are used.

390 gm (complete with toe-clips).



Esquartz Arnateur 102 with toeclips

1B MKSA5702 20M £17-06

Esquartz Arnateur 102 long 1B MKS A5705 20M £17-06

An ultra-modern pedal in a medium price range, offering the advantages of a platform pedal without entirely losing the look of a conventional one It is single-sided, has a one-piece alloy frame and a fine finish. It has a pick-up tab at the rear, and has fittings for standard toe-clips. The raised studs on the platform enable it to be used with ordinary feisure shoes as well as cycling shoes. 400 gm.

2026 GR-8

MKS A5707 20M £8-14



505

An ingenious pedal for all kinds of leisure riders, this model follows the platform principle, and is counterweighted so that it always comes to rest "business side upwards". It is a generous 99mm wide, and has studded ridges at the front, rear and outside of the one-piece alloy frame. Amber reflectors front and rear complete this unusual design. 560 gm.



2027 505

18 MKS A5709 20M £5-63

Similar to the 505, but with a sportier look, and provisions for toe-straps and special toe-clips, which are similar to those used on the Esquartz range. 560 gm.



2028 707

18 MKS A5711 20M £6-09 Pair

Toeclips

(to fit models 707 & Esquartz)

126S: Pair		medium MKS A5715 10M	£2-92
Lair	10	MED VOLTO TOW	P. 27
1265	Steelio	ing	
Pair	18	MKS A5716 10M	€2.92
126A	lay me	sdium	02/39/60
Pair	1B	MKS A5690	£5-30



MKS-continued

Toeclips

(half-clip, leather-covered) Ideal for the rider who is sports-minded, but not ready for full toe-clips



132 Half clip

MKS A7960 5U £3-95 Pair

Backplates

For 2023 'Esquartz' pedals Pair 1B MKS A5740

18 £1-89

NADAX



Favorit bottom bracket unit

The growing tendency towards the fitting of sealed annular-bearing units to bottom brackets is bound to be accelerated by the advent of the Nadax-Favorit cartridge. The threaded aluminium cylinder houses a hollow, stainless steel spindle of exceptional hardness, turning in two FAG precision ball-bearings. Bearings and spindle-ends are sealed against the ingress of mud and water, and the special grease inserted at the factory ensures long and maintenance-free life. The unit can be installed without special tools, being screwed-in from the chain-wheel side and locked in place by a thick alloy locking. There is provision for any slight adjustment which may be needed. The unit is available with English threading for left and right-hand 'cups', or for continental brackets with two right-hand threads. 250 gm. 1.37×24×68mm English 36×24 Metric-Italian 35×100 Metric-French

Important - state the length of axle required

107mm. (Campag/Sun Tour single) 113mm. (Campag/Sun Tour double, TA single) 114.5mm. (Campag triple, TA

double)

119mm. (TA triple)

1-37×24×68rnm English Each 1X NXA766 SM €26-57 36×24 Metric-Italian

£26-57 Each IX NXA767 SM 35×100 Metric-French 1X NX A768 SM €26-57 Each

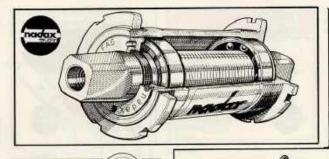
Lockring only

1-37×24 TPI (Engl Each 1X NX A800 £1-80 36×24 (Italian) Each 1X NX A801

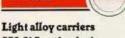
Fitting tools

554890 Standard model 554 £11-30 Each 1X NX A790

555020 New workshop model Each 1X NXA795 SM £42-40



NAGAOKA



AFC-C1 Front low-loader ARC-C1 Rear low-loader Versatile anodised light alloy carriers which offer two ways of carrying front and rear pannier bags. They are "low-loaders", enabling the bags to be strapped to the lower part of the carrying frame, giving a lower centre of gravity and thus more stability. For everyday use, the lower carrying frame can be removed to leave conventional front and rear pannier carriers. To better cope with the extra strain of heavy loads, the carriers have a four-point fixing to the fork ends and, via cushioned and adjustable nylon clamps, to front forks or seat stays. This patented feature is recognized by experienced tourists.

AFC-CI Front

Each 1X NA A5181 5M £24-07

ARC-CI Rear Each 1X NA A5183 5M £24-35

AFC-1 A rigid double-strut front carrier with simple mount, attaching to brake centre bolt. 310 gm

AFC-1 Front

NA A5188 5M £9-68 Each

ARC-02

The strut rear carrier with adjustable rnount to achieve horizontal fitting, and with bracket to take a rear lamp or 380 gm.

£11-84

ARC-02 Read 1X NA A5190 5M

Folding single-strut front carrier, again featuring an adjustable mounting to achieve the correct angle. 280 gm.

AFC-S Front

Each 1X NA A5193 5M £6.90

ARC-TE

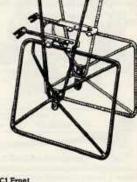
£1-80

Folding rear carrier with simple clamping mount and removable spring clip to hold papers or small items

ARC-TE rear

NA A5195 5M £6-44

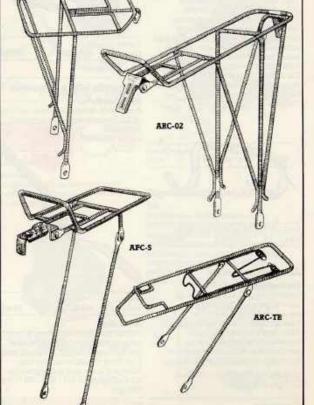




AFC-C1 Reas

AFC-C1 Front





SSORIES



NAGAOKA - continued

Kickstand

Mighty-5

Bolting handily to the nearside seat and chainstay, this lightweight alloy stand has the extra facility of a spring-loaded lock, which makes it impossible for it to be accidentally disengaged. Sturdy enough to take the weight of a fully-loaded cycle. For 27-inch wheels.



Mighty-5

NITTO

1X NAA7749 5U €7-57

Aerodynamic handlebars

The perfect match for the Crystemblue, in aluminium alloy.

They are drilled at the front and slotted at the rear, for use with Dia-Compe or similar aero levers which suggest running the cable through the handlebar, complete with through the hamiliebar, complete with outer casing. The bars are consequently heat-treated to minimize any weak points caused by the drilling. To complete the aerodynamic effect the upper section has also done consection. has a tear-drop cross section. 330 gm.



ADB-185 'AA' 39 cm drilled for cables £17-07

Aerodynamic stem

Crystemblue Striking design has more than an eye-catching purpose with this top-quality forged stem. The handlebar clamp is secured by three Allen-key bolts the top section anodised blue and completely removable to allow the insertion of normal or aerodynamic handlebars.

Available in 70,80,90 or 100mm. 330 gm. (for 80mm).

Crystemblue

1X NO A4076 10M £19-03



Tandem rear stem

Classy rear handlebar clamps were classy rear nanoleolar camps were thin on the ground until we introduced Nitto's light alloy model, designed for 27.2 seat pins and a wide variety of handlebars. The clamp has a rear extension which slopes gently upwards, and is designed to give the "stoker" some breathing space. 240 gm.



NO A4080

Mountain bike accessories

£12-24

B801 handlebar A superbly-finished chrome-moly bar of 22.2mm section, with a modest 50mm lift. 625 gm.



18 NO A3765 5U

MT-1 stem

Handsome stern with chrome-moly column and forged alloy extension and two-piece clamp, anodised silver. The clamp is held secure by four Allen-key bolts, and is designed for 22.2mm bars. 495 gm.

NO A4090 5U IB £19-74



PATURAUD

Toeclips

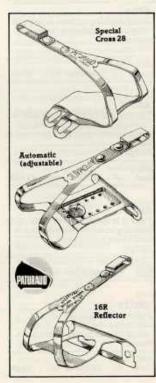
The three main types of toe-clip offered by the old-established Paturaud concern have the stamp of quality and high finish expected of this firm's products. All are in high quality arm is products. All are in high quality spring steel, heavily chromium plated and of long proven design. The Adjustable features a strongly-made slide which can be locked in any one of five positions, giving a length

variation of 20mm. The ingenious clamping screw will not loosen accidentally. The Reflector type is for fitting to reflector pedals and has a cut-out portion to accommodate the rectangular lens. The 'Special-Cross' is really two clips riveted together, the inner one being cadmium-plated with a broad base without cut-off.

Special Cross 28 Pair 1B PD A7980 20M £3-32 Automatic (adjustable) 23

18 PD A7985 20M €3-02

16R Reflector Pair 1B PD A7990 20M £1-82



PAVARIN



Shoeplates

70 Alloy
Alloy shoeplate with deep slot. Complete with nails.

70 One piece alloy Pair 1B PVN A7220 20M

75 Nylon/fibreglass As model 70, but in a lighter material. Complete with nails

75 Nylon/fibreglass Pair 1B PVN A7225 20M

Cyclo-cross

Two-piece shoe-plate specially designed for cyclo-cross. The forward section has a wider-than-normal slot plus two sturdy studs. The rear section, which fits to the heel, is also double-studded. Complete with nails.

Cyclo cross nylon-fibreglass Pair IB **PVN A7231** 20M

73 Adjustable alloy
Two-piece shoeplate. Once the
base-plate is nailed on, the
positioning can be adjusted at will via two large-diameter screws. Complete

73 Adjustable alloy Pair 1B PVN A7233 20M £2-65

78R Adjustable nylon/fibreglass

As model 73, but with adjustable plate in nylon.

78R Adjustable riylon/fibregia

£2-08 1A PVN A7234 20M





PELISSIER



Thorn catcher

The original racing thorn catcher in the lightest duralumin.



Thorn catcher

Each 1B PRA A7900

£1-10



Battery headlamp

A sturdy and reliable front lamp Made in durable black plastic the main body incorporates a positive action on/off switch. The large reflector/ienses assembly is protected by a strong shock resistant guard. Runs off a standard type 1289 battery



681 Cross black plastic Each IC PHS A4960 10U

Dynamo sets

The Phos dynamo is a miniature generator with a three-watt output made possible by the use of high-efficiency coils and magnets. Weighing a mere six ounces, it has a brilliant chrome-finish one-piece body and spring housing, ribbed plastic pulley and push buttoning. The matching headlamps, rectangular or round, have brilliant reflectors and ribbed lenses. Complete with BS3648

Dyno headlamp

651/01 round pattern Each 1C PHS A2411 10M

650/02 rectangular pattern

1C PHSA2414 10M £1-32

Dynamo only

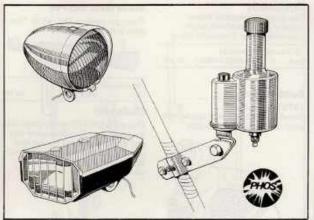
650/01 with bracket

Each 1C PHSA2430 5M £2-92

Dynamo sets (complete with British approved rear lamp)

Phantom with round head lamp Set 1C PHS A2443 10M

Phare with rectangular head lamp Set 1C PHS A2447 10M



PRIMAX



Hub brake

The Primax-60 is a hub brake which screws to the nearside thread on any double-threaded rear hub. It is an internal expanding brake with a servo mechanism which eliminates unpleasant braking squeal and gives superior performance to rim brakes, both in wet and dry conditions. It is cable operated easy to fit and adjust. and replacement brake pads are 530 gm.

You can obtain or order every item in this catalogue through your local specialist dealer.



Primax-60 C.P.

PX A4641 5U 18 £7-28

Brake pads & spring

PX A4644

£2-29

PRIMUS



Pumps

SL-C

Frame-fitting pumps with narrow barrel for high tyre-pressures. Barrels and piston-rods are of searnless aluminium tubing. The handle and grip carry a non-slip pattern. In various lengths and with 'chrome' handle and grip on natural alloy



SL-C Each 1B PSA5870 10U

Aerodynamic

Even a pump can be made more aerodynamic, and this product of alloy and plastic is shaped to hug the seat tube, as well as to fit the frame. In 6 lengths to cover virtually every frame size. Silvered barrel with black or blue handgrip. 155 gm.

Each 1B PS A5880 10U £5-26



Bottles

Standard bottle in non-toxic plastic with knurled indentations for easy grip, and with two-way cap allowing drinking or squirting. In red, biue, yellow, black or white, or with printed Giro d Italia, Milan-San Remo or Zeus badges.

313 plain colours Each 1C RG A500 40M

313/G white with 'Giro d'Italia' badge Each 1C RGA505 40M £0-70

313/M white with 'MEan San Remo' badge Each 1C RGA510 40M £0-70

313/Z white with 'Zeus' badge Each 1C RGA515 40M £0.70

Similar to the 313 but in transparent plastic, and with slightly different drinking cap.

306 - transparent Each 1C RG A901 40M

309 Reserve bottle

The bidon in white plastic is shaped for fitting between the seat stays immediately below the seat-lug.

309 seat stay fliding Each 1C RGA520 40M

Hip flasks 310/311 Corked htp flasks with 200 and 100cc

capacity.

311 hip fask 100cc

1C RGA550 40M

£0-60 310 hip flask 200cc Each 1C RG A560 40M

314 Thermic

Patented unbreakable white plastic bottle specially insulated – fits in standard bottle cages. 250cc. Temperature change over a period of three hours

Hour 185 141 129 113 314 thermic

RG A570

40M

£2-34

316 bottle cover

In coloured felt, with elasticated top Gives some insulation for all standard bottles.

Bottle cover 316 Each 1C RC RG A580

Bottle cages Standard QR 162/164

In chrome-plated steel strip, handlebar or downtube fitting, both with quick-release grip. 120 gm.

162 handlebar model Each 1C RG A600 20U £2-02 164 downtube mode Each 1C RG A605 £1:44

1970 Competition
Downtube fitting in chrome-plated spring steel with nylon grips.

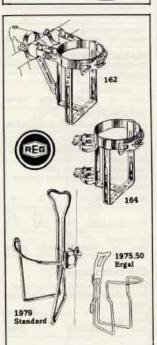
1970 Competition model

1C RG A620 €1-52



REG - continued





1971 Competition

As above, but handlebar fitting

1971 Competition - handlebar Each 1C RGA625 200 20U £1.94

1975.50 Ergal

In Ergal light alloy with nylon grip. Downtube fitting. Silver colour.

1975.50 Ergal downtube Each 1C RG A630 20U £1.38 Each 1C

1976 Dural

In black anodised dural for braze-on fitting. (Fittings not supplied).

1976 Dural, black (braze-on) Each 1C RG A635 20U £2-06

1979 standard

One-piece construction frame chrome-plated steel with single spot-welded clip. Downtube fitting.

1979 standard downtube Each 1C RG A633 20U

Bottle and cage

1973/19 Aerodyn Aerodynamic bottle with special light alloy cage, complete with clips.



1973/19 Aerodyn with alloy cage RG A655 £2-88

Bottom bracket sleeve

320 plastic sleeve for protection of bottom bracket bearings. Concertina shape.



320 black plastic £0-28

Brake cable clips and clamps 749K

Plastic cable clamp for double cables with securing bolt. Available in attractive colours





749K double clamp Card 1C RG A900 5C50 £6-72

748K

Open pressure fitting

1C RG A905 5C50 £4.24 Card

751/25

Chrome top tube clip, 1" diameter, loop at top

751/25 chrome top tube Each 1C RG A950 £0-20

Brake lever sleeves

Plastic pin pattern. Red, white, blue, grey, yellow, green.



346 lever sleeve Pair 1C RG A1510

Chain rest

This small and light plastic chain-hook is a press-fit on the offside seat-stay and allows the chain to be hooked upon it when the wheel is removed, this preventing it from soiling the chain-stay.



635 Chain rest Each IC R6A 1931 20U

Handlebar end plugs

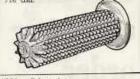
411 interior push-in fit, chromed plastic.

411 End plugs Pair 1C RG A3865

Handlebar grips

£0-42

Pin pattern plastic with contrasting hand guard. Assorted colours. % or 15/16" dia.



460 handlebar grips Pair 1C RG A3925 60M £0.70

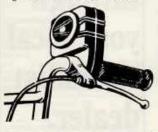
Handlebar grip/sleeve sets

Matching sets of items 460 and 346.

460/346 grips/sleeves Set 1C **RG A3960** 60M

Horn

A loud warning of approach comes from this twist-grip stren, which clamps to the end of a straight or high-rise handlebar in place of a grip.



£4-48

294 Turbo handlebar siren RG A4525

Lamp bracket

362

Handlebar fitting, strong lightweight steel in non-rust finish. This lamp bracket is on or off in a jiffy, having a half clip held with easy turn thumb screw. Fitted with exclusive plastic liners to the clip, thus preventing damage to the bar and at the same time ensuring a firm grip



362 Handlebar lamp bracket

Each 1C

Mirrors

581 Round plastic frame 23/4-chrome

£0-64

pillar RG A5200 20U €0-54 Each

591 Rectangular plastic frame 4" by 2" Z.P. pillar RG A5205 30U £0-64 Each 10

583 Rectangular plastic frame 434" × 236"

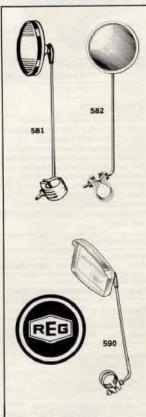
chrome pillar 1C RGA5210 30U £0-80 Each

582 Round plastic 3" dia. RGA5215 30U €0-80 Each 1C

590 Similar to 591 but oval shape 1C RG A5220 30U £1-02

475 Larger rectangular 41/4" × 21/5" with

RG A5225 30U £1-30





REG - continued Mud flaps



213 Standard white plastic with reflector studs 7" × 8" Each 1C RG A5300 £0-58

Price holder



660 Price ticket holder for showroom Each 1C RGA5415 £

Pumps

Constructed in a special unbreakable hard plastic with extra strong handles and plungers with best leather washers firmly attached by an exclusive method of screw with

11 Juvenile white 9-10½" long

(225-265mm) Each 1C RG A5800 30M

12 Standard white 11-12% long

(280-320mm) Each 1C 3 RG A5805 30M £0-84

12 Standard white 141/2"-16" long

(370-400mm) Each 1C 1 RGA5810 30M

13 Standard white 171/2"-18" long

(430-465mm) Each 1C 1 RGA5815 30M

All above fitted with 5" braided connections

Extra for Schrader connections Each £0-12

8C Racing
With patented push-on racing adaptor
and homed rest. Handle grip and
separate pump cup in ABS chromed
plastic. Available in lengths of
455mm, 465mm and 500mm.



8C Racing Each 1C RG A5850 30M

Pump cups



376/S Ortelli pump cup only Each 1C RG A6055 £0-42

Adaptor for track pump



£1-46

RG A5871

Reflectors



€0-32

280 Alloy - rear stay fitting Each 1C RG A6100 £0-38

Spoke discs



67 Chrome plated 41/2" dia RG A7450 25U

65 Polished alloy with outer plastic disc

10 RG A7455 25U €0-94

Stabilisers

Renowned for quality, long life and for easy fitting. Strong stay design with slots enabling one type of stabiliser to fit cycles with wheel sizes 12" to 18".

501/5



501/5 10 RG A7605 25M £3-68 Set

501/D

As above but with 'D' clip to suit cycles with 'D' style chainstays.

501/D 1C Set

RG A7610 25M Stands

98 Rick side propistand, alloy for 26" or 28" Each 1C RG A7700 30M £2-60 164. V pattern centre stand, zinc plated for 26" or 28" wheel 1C RG A7710 30M £3.76



Toeclips

771/2 clip in C.F IC RG A7982 £1-68 79-01 black plasticised steel small Pair 1C RGA7983 10U

79-02 black plasticised steel medium Pair 1C RG A7984 10U £ £1-66

79-03 black plasticised steel large Pair 1C RG A7985 10U £1-66

Tool bags



421 simulated leather Pair 1C RGA8255 £1-26

Trafficators

463 Blink Grip

463 Blink Grip
Battery operated flashers
incorporated into pin pattern grips
with handguard. The flasher unit and
battery inserted into the handlebar
ends. The flashers work by pressing a
pressure point on the grip. Available
in red, blue or green.



463 Blink Grip Pair 1C RG A8550

Tubular carrier

This ingenious sturdy plastic strap push fits to sports saddle wires, and wraps around tubulars or cape-rolls of varying sizes, secured by studs. No abrasion risk to your tubulars as with a toe-strap



701 Tubular carrier €0.72

Speedometer

Round type in sizes 16", 20", 26" Each 1C RX A7300 10M £7:04

Complete cable for speedometer (inner

and outer) RX A7320 10 £0-88

Gear drive for speedometer Each 1C RX A7330

RINDER



Dynamos

The 108 plastic dynamo unit has a neat headlamp attached and at 185 grams is ideal for the lightweight enthusiast. The rear lamp is to British Standard.



Dynamo head lamps

Each 1C RR A2420 10M £3-00

Dynamo only

101 Model 64 chrom

Each 1C RRA2430 10M

Dynamo with headlamp attached

108 New model in plastic

1C RR A2445 10M £4-74

Rear lamp (Dynamo)

1C RR A2447 £1-20 Each

ROBERTO ROSCINI



Sicuro toestraps

Italian styling and know-how produced these attractive leather toestraps for the demanding rider who wants good looks as well as performance. A smart, light-grey finish is set off by flashes of the Italian tricolour and the World Championship rainbow bands



PRO A8177 10U 18 £2-68



RON KIT



Bags, handlebar fitting

'Floi' 9" × 61/2" × 3" black skai-full zip-complete with CP bag support Set 1B RTA210 10M £8-40

Bags - 'Mendip' touring range

A new medium-priced range of matching bags, using black nylon 'material with cream-coloured nylon trim, straps and zips

Handlebar bag (with support)

Main compartment 145×222×200mm deep, closed by double-ended and flapped zip. Two open side-pockets, front and rear zipped pockets, top map case designed to take Bart's maps. The bag comes with its own easily-removable support frame, which is polyurethane coated, and with two elastic shock cords which connect to mudguard eyes. There is a removable stiffener 420 gm. complete.

Handlebar bag & support -- with tension

Each 1C RTA218 5U

Pannier bags
Tapered main compartment
300×130mm at top, tapering
300mm deep, double zipped. Zipped
side and rear pockets. Rear-facing
reflective strip. Handles for easy
carrying off the bike. Polyurethane-coated pannier frame clips. Fastens to virtually every annier carrier 360 gm. (each).

Pannier bags

RT A219 1C 5U £19-78

Saddlebag

Main compartment 350×150×175mm deep, with internal drawcord. Quick-release nylon webbing straps. Two zipped side compartments with flaps, plus generous top compartment (zipped) for cape or similar. Rear-facing reflective strip. 390 gm.

Saddie bag Each 1C

50 RT A220 £11-72

Bag support

Easyfit

Bayth Ingenious handlebar bag support which loops over the stem and needs no clips or clamps. Fits large front bags, which rest on its lower part and are strapped to cross-members. Chrome plated



Easyfit

RT A316 IOM £2-26



Bottle

Competition

Top-quality plastic bottle with 'Miracle' cap and Ron Kit badge in green, yellow and black.

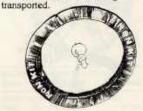


1B RT A560

£1-03

Tubular tyre cover

A superior quality article – smooth black centre band, strong PVC walls metal fastening clips – makes wheels smarter and safer when being



1B RT A8925 5U

£7-41

Tubular tyre carrier

Strong plastic roll to protect spare tubular, clothing or waterproofs. Extra large in white colour with attractive red and blue printing.



Plastic Protective Roll

1B RT A8805 20U £0-93 Each

roto

ROTO

Brake Wheel Guides

Easily fitted to most brake shoes, these alloy guides speed wheel changes 2 gm (each)



R76 Light alloy - attaches to brake shoe: Set 1B RO A860 £0-

SAN MARCO



Saddles

A full range of lightweight saddles offering a choice of frames and coverings based on two basic shapes. The Gi-Lux series is the conventional profile aimed at efficient and comfortable transmission of power. The Concor series has an upswept rear, for better purchase when pushing big gears, and a distinctive nose shape which resists the tendency for the rider to slide forward when producing maximum effort. The Corsaire range gives good design at bargain prices. Latest in the range is the Profil, a development of the Concor which makes it even more aerodynamic. The saddle mould is altered to provide a "spoiler" extending backwards from the nose on the underside to decrease wind resistance.

Junior Racing

248 Junior Black Each 1C **SMO A6620** 30M **£1-56**

Adult Racing less clips

313/5 Corsaire - Black suede

Each 1C SMO A6635 30M £5-32

£7-10

313/2 Corsaire - Smooth leather Each 1C SMO A6637 30M

312/7 Gt-Lux - Black Sueded Each 1C SMO A6639 3 SMO A6639 30M £6-82

267/20 Profil Black

Each 1X SMO A6643 30M £18-70

267/9 Concor Each 1X SMO A6655 30M £13-20

Polo - High Rise - Senior models

150/6 Montegrappa 150/6 Montegrappa 150/6 Montegrappa 150/6 3MO A6725 30M £4-62

Saddle covers in assorted colours Each 1C SMO A6626 10U £1.52

Chrome Seat Stays for Cross Saddles

985 Long Pattern Each 1C SMO A6755 30M





SCHEFFER-KLUT



Pista Track pump

Ideal for any rider who finds pumping tres hard work. This top-quality pump makes light work of inflating tyres up to 15 atmospheres. An easy dial keeps track of the pressure.



'Pista' Each		i with dial gauge SKT A5840 5U	£19-20
Gauge Each	200000	SKT A5856	£7-20

Pump Adaptor & Spares

	ta' pump with chain SKT A5925	€1.22
	r for above SKT A5930	£0-16
	r for dual adaptor SKY A5933	£0-16

3081 Flexible connection with dual adaptor

SILVER STAR

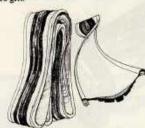


Folding H.P. Tyre

Each 1B SKT A5935

This 27×11/a cover is the latest addition to the small selection of high-pressure tyres that can be folded

as readily as a tubular and carried as a spare. The flexibility is enhanced by a fine nylon fabric and a black tread with a high central rib and chevronned shoulders. It is eminently suitable for fast long-distance riding over all but the roughest terrain. 280 gm.



27"×11/6" Folding 55RA9202 5U



Ball Retainers

C566 Cycle head (steel cage) 552" balls Each 1C SM A370 £0.10

S588 Cycle bottom bracket (steel cage) 1/4" Each 1C SM A372 €0-10

SPORFABRIC



Boyobag Black nylon zipped bag for under-saddle use. Happily takes a folded tubular or waterproof, and fixes to the saddle with the accompanying strap



Boyobag Each 1X SPCA302 5M



Easyon bag support Nothing could be simpler than this dural saddlebag support, which fixes cleverly to the seat stays without clips or clamps. The frame finish is protected by vinyl cladding.

Each 1X SPC A320 5M

Seat pillars

Model S fluted

STRONG

Users of ordinary straight-seat pillars and Brooks-type saddle clips can now

enjoy the pleasing appearance of fluting thanks to this high-duty alloy pillar. In diameters 26.4, 26.8 and

27.2mm., length 200mm. 96 gm.



Model S, fluted Each 1C SG A7045 30M

Model NS-1 Micro

Superb value seat pillar in light alloy with a grooved column. It incorporates a micro-adjusting cradle, and both the tilt and the saddle clamp are operated by a single allen key bolt approached from below. In sizes 25.0, 26.2, 26.4, 26.8, 27.0 and 27.2mm. 200mm length. 240 gm



NS-1 micro SG A7065 5U Each 1B

€6-86

STRONGLIGHT



Bottom bracket axles and bolts

and but			
65 Cot	terless	axle 113mm	
Each	1B	ST A710	£6-90
65 Cot	terless	saxle 120.5mm	and and pro-
Each	1B	ST A715	£6-90
65 Cot	terless	saxle 125.5mm	
Each	1B	ST A720	£6-90
59/60	Axie e	nd bolts	
Each	1B	ST A730	£0.38



The latest catalogue is SUNTOUR available from us FREE

Send only 29p to cover postage to Ron Kitching Sun Tour offer Hookstone Park, Harrogate, N. Yorks.





SUN TOUR



STANDARD SERIES Sealed bearing bottom bracket unit

SS-150 Mountain bike triple

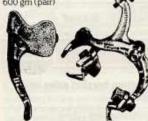
Sealed unit with 130mm cromo axle, clearance for triple mountain bike rings and extra clearance on the opposite side too. Steel body and lockrings. 389 gm

SS-150 Mountain bire triple Each 1C STRA752 5U

Brakes

Cyclone

Borrowing much of their style from the Superbe brakes, these brakes come in depths 40-50mm or 47.57mm. In mirror-finished forged light alloy, the stirrups have adjusters and quick-release which can be locked in any intermediate position. The light alloy rubber-hooded levers are of ergonomic design. 600 gm (pair)



CB-70	000 Cyr	fone (40-50)	mm)	
Pair	1C	STRA813	5M	£42-58
		fone (47-57)		642.50

STRA814 5M

£42-58

XC Power Brakes

Incredible stopping power is offered by these brakes designed for use on mountain bikes. The arms pivot around special braze-on fittings, and are perforated for tightness. The principle owes much to the centre-pull, but without the loss of rigidity occasioned by straddle cables. Instead, the main cable pulls up on a triangular wedge working in grooves to push apart the brake arms at the upper extremity, and consequently push them together on the rim. The lightweight levers incorporate easy cable removal and an ingenious grub screw fitment to exactly set their



CB-60	00 XC	Power Brake	s	
Set	1C	STR A819	SU	£61-28



Chains

Z-chain

Flexible standard-width 3/32" chain, black/silver, suitable for use with derailleur gears.

TZ-6000 Z' chain \2× \22"×116 STRA1919 10U

Cyclone A high-carbon steel chain in Ultra narrow dimensions, with a Dai-hard finish for extra durability. Silver and black finish

SP-6100 Cyclone Each 1C STRA1934 5U

Chain guide

Super Champion

Invaluable accessory for use with single chainrings to stop the chain unshipping over rough ground. Bolts to seat tube as with normal front changer.

Super Champion Each 1C STRA1926 100

Multiple freewheels

Complete freewheels are stocked in the ratios listed below. Other ratios are available only as unassembled, separate body and sprockets in teeth sizes shown under Spares.

Perfect 888 5-speed

Britain's most popular freewheel, stocked everywhere for its reliability and its interchangeability of

sprockets. Top two sprockets (14 to 17) are screwed to the body, while the remaining three (16-38) are on a

single spline Natural brown finish. 335 gm (14-18)

Mod	lel P	T-50	00			
14	15	16	17	18		
16	17	18	19	20		
14	16	18	20	22		
14	16	18	21	24		
15	17	19	21	24		
Each	h	IC	STR	A2500	25M	£5-74
14	17	20	23	26	100	
Eacl	h	1C	STR	A2505	25M	£5-94
14	17	20	24	28	1901	2000
W		200	ewn.	#584E	DESE	26.74

Books of Line	2000	Logo contrata	
14 18 7 Each 10		34 2525 25M	£6-94
14 17 2 Each 10	26 STRA	32 2530 25M	£6-64
14 17 7	0 24	28	
Tandem Sp Each 10	STR A	2532 25M	£6-64
14 17		38	
	STR	A2535 25M at 888 freew	
Body only Each 10		A2550	£3-96
Top and 2 Each 19		ed cogs (14 to A2551	18) £0-90
		ined cogs (16	to 26
Each 1		A2553	£0-90
3rd, 4th at except 29		ined cogs (27	to 34
Each 1		A2556	£1-34
38 tooth, Each 1	5th STR	A2557	£1-78
Specing w Each 1			€0-12
Spacing w		y - narrow A2560	€0-12
Spacing w		y - narrow be	velled (fo
Frank 1		82561	60-12

14 18 22 26 30 Each 1C STRA2520 25M

1C

Perfect 888 6-speed A 6-speed version of the 888 model, using a different body but all the same sprockets except for the special 13-tooth top screwed sprocket.

STR A2561

€0-12

Spares for	PS-6000	
	24 28 34 STRA2716 25M	£8-42
	20 24 28 STRA2713 25M	£7-72
	19 21 24 STRA2710 25M	£7-24

Each	STR A2719	€4-56
CANCEL STATE OF	ewed cog	£1-20

Model PC-5000

14 15 16 17 18 14 16 18 20 22

Pro-Compe 5-speed A5-speed freewheel using similar screwed and splined sprockets to the Perfect 888, but in a distinctive gold finish. The body has ground ball races, and spreads the drive load over three pawls against the two of the Perfect 888.

	7 19	21 24 21 24 19 21	
		STR A2600 25M	£7-14
Spare 5-spe		Pro-Compe' frees	vheel
ratios f	rom s	el 888 can be supplie pares.	d in othe
Body of Each		STR A2640	€4-56
Topar	d 2nd	screwed cogs (14to	17)
		STR A2641	£1-24
3rd, 4t		5th splined cogs (16	
Each	1C	STR A2643	£1-24
3rd, 4t		5th splined cogs (27 L. 33)	to 34
		STR A2646	£1-78
Spacin	g was	her only - wide	22/06/06
Each	1C	STR A2559	£0-12
Spacin	gwas	her only - narrow	
Each	1C	STR A2560	£0.12
Spacir	ig was	her only - narrow be	velled (fi
15T co		CYD #2561	€0-12
Each	10	STR A2561	FO.15

Single freewheels

Quality single freewheels for standard hubs, available in either 1/8" or 1/32". Model FS-1500

ingle	12×11	0*	
	16 to:		
Each	1C	STR A2601 25M	£2.48
SD-18	18 too	oth	
Each	1C	STRA2603 25M	£2-48
SD-19	19 too	oth -	
Each	IC	STR A2605 25M	£2.48
SD-20	20 too	oth	11 MARCHINES
Each	1C	STR A2607 25M	£2-48
Single	16×3	Ba ^{rr}	
	16 to		
Each	10	STR A2611 25M	£2.48
	18 too		Diane
Each	1C	STRA2613 25M	£2.48

Freewheel display/service boards

888/Pro-Compe

hooks for fittings.

For the dealer, an ideal way to stock and display Sun Tour freewheel bodies, sprockets and spacers. The boards are in a striking blue acrylic sheeting with white lettering and chromeplated hooks for the spares. They also clearly show how each freewheel should be built up. Size 61×86 cm. Comprising 80 assorted Perfect's prockets 14-34 and 40 'Pro-Compe' sprockets 14-34. 20 bodies 40 Wide spacers - 20 Flat spacers 4 Bevelled spacers - complete with

Display/service board Each 1C STRA2680 £230-68





Mechanic's freewheel service case

The answer to storage or transport of freewheel bodies and sprockets. This set is contained in a stout, well-finished wooden case with double fastenings, with a full selection of sprockets for Perfect 888 (total 61 in all) and Pro-Compe (46) freewheels, plus bodies, spacers, a hub vice, chain-type sprocket remover and a freewheel remover. The case is versatile, and can be used to store or carry other kinds of Sun Tour sprockets if required. Just right for the stage-race mechanic or the shopkeeper with limited room.



Mechanics service case Each 1C STRA2682

Mountain bike ensemble

An accessory ensemble for mountain bikes, from Sun Tour and associated companies. Buying the ensemble offers a considerable saving over the purchase of separate components. Comprises.—
SUN TOUR

Moun-Tech front and rear derailleurs Microlite power shift levers (for straight %" bars) XC-II Bear Trap' sealed bearing

pedals BH-1400 sealed bearing s/f hubs, BH-1400 seared bearing 51 moss solid spindle Z-chain, 116-link QR-170 Seat pillar q/r bolt New Winner 5-speed freewheel,

13-30 SS-150 sealed bearing bottom bracket unit, chrome moly axle, for triple chainset

HS-100 headset Fitting tools for hubs and bracket set DIA-COMPE

980 brazed-on brakes, complete with bosses

280 levers for straight 7/8" bars SUGINO

AT triple forged chainset with 26/36/46 rings and 175mm cranks

Mountain bike ensemble Set IC STRA2685

Gears - front changers (less lever)

Lightweight alloy changer with top normal set-up, allowing the rider to use his own strength to change down on a suddenly steepening gradient. 110 gm.

FD-1700 NSL

1C STR A3015 20M £5-20

Spirt Alloy body, steel cage, top normal with good capacity. 145 gm.

FD-1000 Spirt Each IC STRA3000 20M £3-86

Alloy body, steel cage with cut-outs. Low normal and good capacity. A good 'workhorse', 115 gm.

FD-1600VX

STR A3004 20M 1C Each

£4-56

M. LOLLIN Wide-capacity changer with top normal. Light alloy except for inner cage plate, which is steel, designed to clear chain stays on a shallow-angled frame. Excellent with triple chainrings. 118 gm.

FD-3200 LETech

Each 1C STR A3007 20M

Compe-V

Alloy body with perforated steel cage. Top normal with good capacity Bargain price. 134 gm.

FD-1100 Compe-V Each IC STRA3010 20M

Mountech

Features a 26-tooth range, achieved by the long specially shaped cage design. A deep scallop towards the rear of the inner plate serves to get a better pick-up on a small chain ring. Body and outer cage plate are of light alloy, inner cage plate of steel. Low normal. Designed for mountain bikes, but adopted by all kinds of cycle tourists 102 gm.

FD-2700 Mountech

1C STR A3013 20M £8-32 Each

Alloy body, steel cage, low normal with good capacity. Slim cage with cut-outs. Excellent price for an inexpensive racing changer, 112 gm.

FD-2500 AR

STR A3032 20M

Cyclone An old name with a new NEW look, the Cyclone changer has a light alloy parallelogram body with a heat-treated chrome-plated cage. A healthy 18-tooth capacity makes it right for racing and touring. 101 gm.

FD-3300 Cyclone Each 1C STR A3021 20M £7-22

Cyclone II

A model with plenty of capacity and many aerodynamic qualities, with projections kept to a necessary minimum.

The new endless clamp ensures even tightness all round and the 6mm Allen key bolt which tightens it is recessed into a housing.

Light alloy body, chrome-plated steel cage. Low normal, generous capacity.

FD-2300 Cyclone 11 Each 1C STR A3038 20M £10-40 sheathed cable.

ARX



A lightweight changer of modern lines, resembling the Cyclone II. Light alloy with steel inner cage plate. Low normal. Can be used with bare wire or

FD-2600 ARX Each 1C STR A3042 20M

A front changer for the wide-ratio tasks. The width of the cage is adjusted automatically as the change is made from large to small chainring, obviating the risk of the chain jamming between rings or overshooting. It also has the drawbridge design for easy chain removal. Light alloy, with steel cage

FD-2100 AG

STR A3043 20M

Super-wide ratio for touring and mountain bikes, double or triple chainrings. Alloy with steel cage, inner plate scalloped for better pick-up. A marvellous gear for the money 128 gm.

Cyclone II

FD-2800 AG-Tech

Each IC STRA3044 20M

Gears - rear mechanisms

Good strong alloy and steel gear for all-round use. 263 gm.

RD-2600 Volante

Each 1C STR A3045 20M

Honor

Steel gear with longer cage for increased capacity. Quick cage for easy chain removal. 400 gm.

RD-1100 Honor Each 1C STR A3055 20M £6-24

A gear for any kind of terrain from the smoothest roads to the roughest going. It incorporates the slickness, compactness and smooth shape of the ARXGT, with the technologically-advanced twin pivot

cage mechanism. This pivots at two points giving double articulation, and allows the jockey wheel to stay a constant distance from each freewheel cog. This advantage comes into its own particularly on wide ratio freewheels. Light alloy body with a

steel cage.

277 gm. RD-4900 Mountech

Each 1C STRA3057 20M £12-88

continued - p 35



ACCESSORIES



Front Derailleur	S	SINTOLR	VX	b	15T	115 gms
Model	Gear capacity (Max. difference between chainrings)	Weight			22T	155 gms
SUPERBE PRO	14T	82 gms	AG	7	LLI	130 gms
SUPERBE PRO (Braze on)	14T	92 gms	AG TECH	S	26T Max. 6T Min	128 gms
SUPERBE II	18T	100 gms	AR 'j	M,	18T	112 gms
CYCLONE 15	187	101 gms	MOUNTECH		26T Max 6T Min	102 gms
(New model) CYCLONE II	18T	94 gms	- NSL		16T	110 gms
		110	COMPE-V		18T	134 gms
LE TECH	26T Max 6T Min	118 gms				
				Ca2	18T	145 gms
ARX	1 8T	93 gms	SPIRT	B		
Rear Derailleurs		93 gms	<i>U</i>			210 dms
Rear Derailleurs		93 gms	CYCLONE (New model)	學	28T (Total difference) Front 17T Rear 13T - 24T = 11T	210 gms
Rear Derailieurs		SMTOUR	CYCLONE	A STATE OF THE STA	28T (Total difference) Front 17T	210 gms
Rear Derailleurs Model SUPERBE	Gear Capacity 25T (Total difference) Front 12T	SATOR Weight	CYCLONE (New model)	S S S S S S S S S S S S S S S S S S S	28T (Total difference) Front 17T Rear 13T - 24T = 11T 28T (Total difference) Front 15T	160 gms
Rear Derailleurs Model SUPERBE PRO II	Gear Capacity 25T (Total difference) Front 12T Rear 13T - 26T = 13T 22T (Total difference) Front 12T	Weight 176 gms	CYCLONE (New model) CYCLONE Mk II RACING	The see see	28T (Total difference) Front 17T Rear 13T - 24T = 11T 28T (Total difference) Front 15T Rear 13T - 26T = 13T 34T (Total difference) Front 13T	
Rear Derailleure Model SUPERBE PRO II SUPERBE II	Gear Capacity 25T (Total difference) Front 12T Rear 13T - 26T = 13T 22T (Total difference) Front 12T Rear 13T - 23T = 10T 40T (Total difference) Front 19T	Weight 176 gms	CYCLONE (New model) CYCLONE Mis II RACING CYCLONE Mis II G. T	The see see see	28T (Total difference) Front 17T Rear 13T - 24T = 11T 28T (Total difference) Front 15T Rear 13T - 26T = 13T 34T (Total difference) Front 13T Rear 13T - 34T = 21T 40T (Total difference) Front 19T	160 gms
Rear Derailleure Model SUPERBE PRO II SUPERBE TECH GTL SUPERBE TECH	Gear Capacity 25T (Total difference) Front 12T Rear 13T - 26T = 13T 22T (Total difference) Front 12T Rear 13T - 23T = 10T 40T (Total difference) Front 19T Rear 13T - 34T = 21T 34T (Total difference) Front 13T	Weight 176 gms 163 gms	CYCLONE (New model) CYCLONE Mk II RACING CYCLONE Mk II G. I	The see we we	28T (Total difference) Front 17T Rear 13T - 24T = 11T 28T (Total difference) Front 15T Rear 13T - 26T = 13T 34T (Total difference) Front 13T Rear 13T - 34T = 21T 40T (Total difference) Front 19T Rear 13T - 34T = 21T 34T (Total difference) Front 19T Rear 13T - 34T = 21T	160 gms



ACCESSORIES



			vx -		24T (Total difference) Front 12T Rear 14T - 26T = 12T	200 gms
	28T (Total difference) Front 15T Rear 13T - 26T = 13T	206 gms	VX GT		34T (Total difference) Front 14T Rear 14T - 34T = 20T	210 gms
	34T (Total difference) Front 14T Rear 14T - 34T = 20T	280 gms	VXS	4	28T (Total difference) Front 16T Rear 14T - 26T = 12T	210 gms
2	34T (Total difference) Front 14T Rear 14T - 34T = 20T	303 gms	VOLANTE		25T (Total difference) Front 13T Rear 14T – 26T = 12T	263 gms
CASSION OF THE PARTY OF THE PAR	28T (Total difference) Front 13T Rear 13T - 28T = 15T	280 gms	HONOR	172	28T (Total difference) Front 12T Rear 14T - 30T = 16T	400 gms
	The section of the se	Rear 13T - 26T = 13T 34T (Total difference) Front 14T Rear 14T - 34T = 20T 34T (Total difference) Front 14T Rear 14T - 34T = 20T 28T (Total difference) Front 13T	Front 15T Rear 13T - 26T = 13T 34T (Total difference) Front 14T Rear 14T - 34T = 20T 34T (Total difference) Front 14T Rear 14T - 34T = 20T 28T (Total difference) Front 13T 280 gms Front 13T	28T (Total difference)	28T (Total difference)	28T (Total difference) Front 15T Rear 13T - 26T = 13T 34T (Total difference) Front 14T Rear 14T - 34T = 20T 34T (Total difference) Front 14T Rear 14T - 34T = 20T 34T (Total difference) Front 16T Rear 14T - 26T = 12T 34T (Total difference) Front 16T Rear 14T - 26T = 12T 34T (Total difference) Front 13T Rear 14T - 34T = 20T 280 gms Front 13T Rear 14T - 26T = 12T 281 (Total difference) Front 13T Rear 13T - 28T = 15T 280 gms Front 13T Rear 13T - 28T = 15T 280 gms Front 13T Rear 13T - 28T (Total difference) Front 12T 28T (Total difference) Front 13T Rear 13T - 28T = 15T

Control Levers



Model		Material	Mechanism	Clamp Diameter and Attachment Position	Lever	Weight
SUPERBE PRO II	11	Forged light alloy (lever) Anodised finish Stainless steel clamp	Universal type	28.6mm Down tube (Clamp on)	Double	64 gms
	and the same	Braze on version available		Down tube bosses	Double	46 gms
SUPERBE		Forged light alloy lever Anodised finish For brazed on bosses	Universal type	Down tube boss fitting	Double	52 gms
	们等几					(Brazed-on)
CYCLONE (New model)	\$1	Light alloy mirror finish Steel clamp	Universal type	28.6mm Down tube	Double	69 gms
(New Model)	20.7	Braze on version available		Braze on Down tube	Double	51 gms
CYCLONE		Forged light alloy lever Anodised finish Stainless steel endless clamp Braze on version available	Universal type	28.6mm Down tube	Double	60 gms
vx	0.0	Light alloy lever Stainless steel clamp	Universal type	28.6mm Down tube	Double	80 gms
PDL-M		Light alloy lever Steel lever clamp	Power shift	28.6mm Down tube	Double	125 gms
PSL-M		Light alloy lever Steel lever clamp	Power shift	28.6mm Down tube	Single	72 gms
DLW		Light alloy lever Steel lever clamp	Universal type	28.6mm Down tube	Double	83 gms





siw E	Light alloy lever Steel lever clamp	Universal type	28.6mm Down tube	Single	65 gms
UBN-10	Light alloy lever Steel lever clamp	Universal type	22.2mm H/bar stem	Double	143 gms
UBN-5	Light alloy Steel lever clamp	Universal type	22.2mm H/bar stem	Single	110 gms
PUB-10	Light alloy lever Steel lever clamp	Power lever with ratchet	22.2mm H/bar stern	Double	227 gms
BAR-CON	Light alloy Die cast	Power shift	H/bar end	Double	176 gms
MICROLITE POWER THUMB SHIFTER	Light alloy lever Stainless steel clamp	Power lever with ratchet	22.2mm H/bar	Double (1 pair)	155 gms
MIGHTY SHIFTER II	Light alloy lever Stainless steel clamp	Power shift	22.2mm H/bar	Single	95 gms
TOP MOUNT	Light alloy (Lever & body) Stainless steel clamp	Universal type	28.6mm Down tube	Double	74 gms
	Braze on version available		Braze on for Aero or round	Double	69 gms







SUN TOUR - continued

Mountech GTL

As the Mountech, but with an even larger cage and consequently increased total capacity. A dream of a wide-ratio gear. 283 gm.

RD-5500 Mountech GTL Each 1C STR A3058 20M £14-06

The VX gear is inexpensive, yet still offers the basic advantages of the Sun tour system: the patented slant parallelogram system which keeps a constant clearance between freewheel sprockets and the jockey pulley, ensuring smoother changes and the "straight wire" feature, which keeps kinks out of the gear cable, meaning longer life and less friction on gear changes. Light alloy. A bargain racing gear. 200 gm.

RD-2200 VX

1C STRA3074 20M £8-52

VXS

As the VX, but with a slightly larger cage which increases the capacity. Quick cage. 210 gm

RD-2500 VXS Each IC STR A3079 20M

VXGT

The long-cage VX, with touring capacity and quick cage. 210 gm.

RD-2400 VXGT Each 1C STR A3084 20M

LE Tech

All the features of the Mountech, but with the trim and finish of the Cyclone II gears. A first-class wide-ratio gear. 305 gm.

RD-5900 LE Tech

1C STR A3085 20M £21-78

Cyclone

This latest addition on to the Sun Tour range is a racing gear with an amazing 28-tooth maximum capacity, also taking a 24-tooth largest sprocket. In Mirro-finished light alloy, it follows the lines of the Superbe Pro II gears. 210 gm.

RD-6000 Cyclone Each 1C STRA3051 20M £15-04

Cyclone II

A streamlined version of the Cyclone, A streammen version of the Cyclone, which has already proved so popular with competitive cyclists. Housings are smoothed off to give better airflow, and adjusting screws recessed. Compact, good-looking— and a gear which won't let you down. Forged light alloy. Lightest in the Sun Tour range 160 gm

RD-3500 Cyclone Each 1C **STRA3101** 20M **£18-32**

Cyclone II GT As the Cyclone II, but with larger cage for increased capacity. 170 gm.

RD-3700 Cyclone II GT

Each IC STRA3105 20M £19-32

A bargain racing gear, using the aerodynamics of the Cyclone II for its style, and light alloy and steel for its construction. 280 gm.

RD-4200 AR

STRA3106 20M £7-44 Each 1C

ARGT

Long-cage touring version of the AR 303 gm.

RD-4400 ARGT Each IC STRA3107 20M £7-92

ARX

A medium-price gear using the aerodynamic lines and many of the features of the Cyclone II. Satin finished light alloy with steel cage

RD-4300 ARX light alloy Each 1C STRA3120 20M

£9-42

Ultra-wide ratio gear using the twin pivot system of the Mountech. Light alloy and steel. 366 gm.

RD-5600 AG-Tech GTL Each 1C STRA3126 20M

Cyclone II AG-Tech GTL ARXGT Jockey Pulleys

ARXGT

Long-cage touring version of the ARX. 280 gm.

RD-4500 ARXGT Each 1C STRA3121 20M £10-40

AG (Alpine Gear)

An inexpensive gear designed to take extreme ratios, right up to the 38-tooth sprocket available on the Sun Tour AG Perfect freewheel. Light alloy and chrome-plated steel. 375 gm.

RD-3400 AG

Each 1C STRA3124 20M £8-52

AG-Tech GTL

£12-48

Spare hanger bracket for rear gears Each 1C STRA3109

Standard

Revitalize your rear mechanism with a new set of jockey wheels and immediately improve the drive. Suit all Sun Tour gears and most others.

Spare Pulleys for rear gear Set 2 1C STRA3106

Sealed bearing Sun Tour's sealed bearing replacement jockey wheels reduce drive train friction and thus save rider energy. They fit all Sun Tour gears and most others too. A double-sealed precision bearing is fitted to a Delrin plastic pulley wheel, with additional alloy washers as double dust shields 30 gm (pr)

STRA3111 10U £6-54





SUN TOUR - continued

Gear control levers

(with inner & outer cable)

Downtube fitting

SLW single Right-hand hooded alloy lever with steel clamp 56 gm.

LS-1000 SLW

Each 1C STR A3230 20M £2.78

DLW double

Double alloy lever, slotted blades, with steel clamp. 83 gm

LD 2900 DLW double Each 1C STRA3235 20M

Compact double light alloy levers with stainless steel clamp and ring-bolt tension adjusters. 80 gm.



LD-1900 VX double

Each 11 STRA3236 20M

PSLM single Single light alloy lever, steel clamp with ratchet mechanism to minimize power needed to change. 72 gm.

LS-1500 PSLM single power Each 1C STR A3240 20M

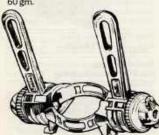
PDLM double

Double version of PSLM. 125 gm.

LD-1500 PDLM Each IC STR A3245 20M £5-64

Cyclone double

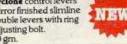
Forged and slotted light alloy levers, "endless clamp" in stainless steel. Ring-bolt adjusters. Lightweight. 60 gm



LD-1600 Cyclone double

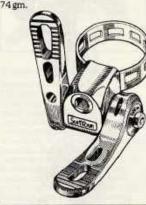
STRA3250 20M 610-40

Cyclone control levers Mirror finished slimline double levers with ring adjusting bolt.



LD-3700 Cyclone Each 1C STR A3251 20M €5.74 Top Mount double

Aerodynamic levers placed above the downtube rather than at each side. Light alloy with stainless steel endless clamp. Self-adjuster to minimize chain "tinkle" on extremes of gears. The need to "overchange" is also



LD-2300 Top Mount double Each 1C STRA3260 20M

Gear control levers

(Braze-on)

Top Mount

As standard Top Mount, but available to braze on either round or aero tubing 68 gm.

LD-2350Top Mount double Each 1C STRA3265 20M

LD-2350 Top Mount aero tube Each 1C STR A3266 20M

Cyclone double

As standard Cyclone, but for braze-on fittings.

52 gm.

Cyclone double Each 1C 5

STR A3268 20M £10-90

Cyclone

As the clamp-on lever, but suitable for Sun Tour or Italian brazed-on bosses. 51 gm.



LD-3750 Cyclone

STR A3269 20M

Gear control levers (handlebar)

Mighty Shifter

Compact single power lever with ratchet. For straight bars of 15/16" diameter. 95 gm.

LS-2200 Mighty Shifter Each 1C STRA3270 20M

Microlite power thamb shifter
A ratchet lever designed for use on all
flat handlebars, and particularly on
off-road bikes. It uses Sun Tour's
endless band clamping system, has a rugged lever, and a quick-adjust friction screw similar to that on inction screw similar to mar on Superbe levers. When you push with your thumb, you work against the derailleur spring, and with the spring when you pull with the index finger. The curved shape is designed to keep the thumb from slipping on rough



LD-2800 Microlite power thumb shifter STRA3242 5U £10-40 1C

LD-3600 Power thumb shifter II 1C STRA3243 20M £12-48

Light alloy handlebar-end power levers with ratchet. Ideal for time trialling or cyclo-cross. 176 gm (pair).

LD-1400 Bar-Con bar end fitting

1C STRA3273 20M £13-44

Gear control levers

(stem-fitting)

UBN-10

Double stem-fitting lever. 142 gm.

LD-3000 UBN-10 double Each IC STR A3280 20M £4-42

€8-02

Single stem-fitting lever. 105 gm.

LS-3500 UBN-5 singl Each 1C STRA3281 20M €3-66

PUB-10

Double stem-fitting lever with power ratchet on right-hand side. 227 gm.

LD-1300 PUB-10 double power Each 1C STR A3283 20M £5-64

Gear tunnels and stops

OS-120 %" Chainstey stop Each 1C STR A3285

€0-36

OS-110 Single D/T stop Each 1C STRA3286 £0-46 OS-100 Double D/T stop Each 1C STRA3287 £0-46 WL-100 Single D/T Tunnel Each 1C STRA3288

WL-100 D/T Tunnel and stop Each 1C STR A3289

£0-46

Gear lever rubbers

White Each	1C	5TR A3400	£0-20
Black Each	10	STR A3401	£0-20

Handlebar stem

XC-V

Each

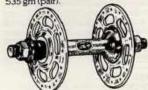
Mountain bike stem, with pillar in Cromo, 75mm extension in anodised light alloy. Clamp is 22.2mm diameter, secured by two allen-key bolts. Includes special lockring feature which spreads the clamp for easy bar installation.



MS-1400 XC-V Each 1C **STR A4135** 5U £19-80

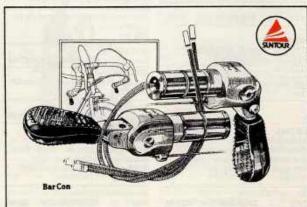
Hubs - track

Sprint Excellent beginner's track hub also usage on the road, because it is threaded for fixed cog one side, single freewheel the other. Forged light alloy, silver anodised, large-flange, solid spindle, Drilled 28/32/36. usable on the road, because it is 535 gm (pair).



RH-4400 Sprint Pair 1C S

STR A4620 5U







SUN TOUR - continued

Hubs - quick release

Inexpensive small-flange quick-release light alloy hubs, spoked 36H. Over-locknut dimensions: 100mm (front), 120mm (rear). 595 gm (pair).

RH-1500 VX

1C STRA4630 5U £19-22

Hubs - sealed bearing Quick-release

The advantages of sealed bearings have been common knowledge to engineers for decades. But the high degree of precision, low need for maintenance, and long, dependable life which they provide has only been

available to bicyclists in premium priced products.

Now, Sun Tour advanced bicycle technology has produced a sealed bearing hub with the same precision, smoothness and maintenance free durabilities blids produced bubb. durability as high-priced sealed hubs, but at a price which any cyclist can afford. The hub shell is computer-machined from an

aluminium alloy casting. Both large and small flange are available, drilled

for 36 spokes. The hubs use conventional quick-release axles with adjustable retainers, assuring perfect fit, but providing the convenience of easily available replacement of a damaged

axie. The precision sealed bearings are of an internationally standard size, and front and rear hub bearings are identical. The alloy spacer between the bearing and lock nut also acts as a secondary seal to protect the bearings from grit and moisture. 622 gm (pair, small-flange). 647 gm (large-flange).

RH-4600 Small flange Pair 1C STRA4640 SM €28-72

RH-4700 Large flange Pair 1C STR A4642 5M £31-58

Mountain bike, solid spindle

A solid-spindle version of the same hubs, with 130mm rear over-locknut dimension. Drilled 36. Suitable for off-road bikes or tandems. 565 gm (pair).

BH-1400 Small flange Pair 1C STRA4644 SM 1C £25-06

Cyclone

Sealed-bearing small-flangehubs with quick-release. Forged light alloy shells in the modern diabolo shape, dished with slant-cut flanges. Drilled 28/32/36. 536 gm (pair).

BH-2000 Cyclone Pair 1C STRA4653 5U £30-70 Pair

Quick-release skewers

QR-100 Front				
Each	1C	STR A4800	£2-68	
QR-11	0 Rea	r		
Each	10	STR A4810	£2-88	



Pedals

Quill road pedal with light alloy cage, pick-up tabs and threads for toe clip bolts.



PL-1500VX STR A5600 5U

Cyclone
A lightweight pedal owing much of its design to the much-admired Superbe Pro. With a light-alloy "lazy H" frame, chrome detachable side plates and Cromo steel axle, its design is outstanding - and so is the price



PL-5300 Cyclor STR A5602 5U £19-30

Seat bolts (quick-release)

Two versions, the QR-120 with a useful shank length of 22-35mm, and the QR-170 (18-38.5mm) the latter designed for mountain bikes



QR-120 10 STR A6880 £2-48 Each QR-170 Each 1C STR A6881 £4-26

Spoke Disc

6" Plas Each	tic 1C	STR A7430 20M	£0-70
71/2° P	astic		
Each	1C	STR. A7440 20M	£0-80
SD-75	07%	Chrome plated	100000
Each	10	STR A7450 20M	£0-90



ROAD GROUP Brakes

Top quality side-pull braking in the modern vogue. In polished light alloy

with shallow stirrups, quick release levers on lower brake arms, wheel guides and rubber-buffered adjusters. Blocks are 35mm by 10mm with two slots and the shoes have both ends closed. The 6rnm pivot bolts have spanner flats for spring adjustment. The perforated levers are held by hand-clips with Allen screws fitted, and have extremely comfortable natural rubber hoods. Available in

two depths. 40-50mm (549 gm pair) 47-50mm (565 gm pair)



CB-3000 Superbe Pro 40-50mm Pair 1B **STR AB00** 5U

CB-4000 Superbe Pro 47-50mm Pair 1B STR A801 5U

£51-82

CB-3000 Superbe Pro 40-50mm (Allen key fitting)

1B STR A802 5U £51-82

Brake levers

CB-3200

Perforated levers with rubber hoods. Silver anodised finish. As supplied with brake sets. 219 gm (pair).

CB-3200 Superbe Pro perforated Pair 1B **STRA630** 5U £12-87

CB-2200

More compact lever, unperforated blade, shorter than CB-3200 and slightly shorter reach with rubber hoods 220 gm (pair).



CB-2200 Superbe Pro compact Pair 1B STRAB31 5U £14-24

Brake lever hoods

Trans	lucent		
		STRA835	£2.70





SUPERBE PRO - continued

Chainwheel & crankset

Brand new in the Superbe Pro range, a forged light alloy crankset with an eye-catching design which is both aerodynamic and good-looking. The right-hand crank blends into the spider arms for increased stiffness. Interchangeable rings feature cut-outs, in sizes 42 to 54. Crank lengths 165, 170, 172.5 and 175mm. Delivered with double rings to choice, but without bracket set. 658 gm.



CW-5000 Crankset inc. double rings Set 1B STRA2010 5U £68-47

Chainrings

42 to 47 teeth					
Each	1B	STR A1620	£9-61		
48 to 5	4 teet	h			
Each	18	STRA1625	£11-84		

Control levers

We believe that the Superbe Pro levers are the lightest available, ergonomically designed for finger-tip changing, these drop-forged levers incorporate a double friction locking mechanism which prevents unwanted changes. Available as braze-on (compatible with Italian bosses and supplied with Sun Tour fitments) or with clamp-on fixing.



LD-3200 Superbe Pro clamp-on Each 1B STR A3232 5U £10-82

LD-3250 Superbe Pro braze-on Each 1B STRA3233 5U £10-82

Gears - front changers

This latest top-flight front changer is more compact without losing efficiency. The endless clamp fixing system gives clean lines to the downtube. The mounting bolt fits into the changer body, eliminating another protrusion. A braze-on fixing is also possible. Light alloy with stainless steel clamp. 85 gm.

FD-2000 Superbe Pro Each 1B STR A3036 5U £14-16

FD-2050 Superbe Pro braze-on £14-16 1B STR A3037 5U

FD 2000

Gears - rear mechanism Superbe Pro II

The new Superbe Pro II derailleur typifies the range. Smooth in looks and in operation, compact, making use of the finest materials. The body is of drop-forged light alloy, the pulley wheels are of polyester resin, running on sealed bearings. It has a sculptured cage which aids air flow, a concentric tension spring which, like a watch spring, does not fatigue like ordinary coil springs, and is sealed with Delrin bushings. The adjustment screws have nylon inserts to guard against movement through vibration. It will handle a 26-tooth rear sprocket. And at 176 grams, it is one of the world's lightest derailleurs.



RD-5200 Superbe Pro II Each 1B STR A3145 SU £20-60

Head fittings

Forged and anodised light alloy cups and cones, with inserted Cromo steel ball tracks. A lightweight set suitable for road and track. 110 gm.

HS-150 Superbe Pro Set 1B **STR A4453** 5U

Hubs - sealed bearing, quick release

The new Superbe Pro hubs are unique in several ways. First, the bearings are sealed and shielded to eliminate dirl and moisture, yet they are fully serviceable with ordinary hub spanners. No other sealed hubs on the market can be taken apart, be relubricated, and have the balls, races or bearing surfaces replaced; and all with just ordinary hub wrenches, like traditional hubs. Second, the bearings are of the

angular contact type, which gives them the same radial load capacity as other sealed bicycle hub bearings, but greater thrust loading capacity. Third, the balls can be run in the self-lubricating Delrin retainer, or the retainer can be removed and balls added.

Fourth, the flanges of the cold-forged alloy hub shells are concave, to better aim the spoke toward the rim; and the outside edge of each flange is carefully bevelled to eliminate spoke bending

Fifth, the rear road hub can be set up as a symmetrical five-speed or an asymmetrical six or seven speed, simply by moving a spacer from one axie end to the other

Sixth, the axles are to Japanese Industry Standard for bicycle hub axles, which means that a bent axle can be replaced with easily available standard parts. The new Superbe Pro hubs come as small flange road. The rear hubs are available with 126mm locknut-to-locknut dimensions Drilled 28/32/35 520 gm (pair).



BH-1500 Small flange STR A4657

€47-62

Pedals

The basis of the Superbe Pro pedal is a machined alloy forging that has greater strength and durability than anything similar which is currently available. It affords ultra-firm housing for two needle roller bearings and a hollow chrome-alloy steel spindle threaded %16" × 20. The black alloy cage is attached by seven Allen screws with 8mm flat heads and 3mm sockets and has a pick-up tab, a strap-guide and threaded toe-clip holes. It is also tapered towards the outside to give enhanced ground clearance. With grease-packed shielded bearings and sturdy construction, long life and efficiency are assured despite the low weight 300 gm.



PL-4000 Superbe Pro Pair 1B STR A5655 SU £38-95 Side plates for Superbe Pro pedals

STR A5657

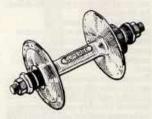
TRACK GROUP Hubs

Superbe 'Custom

From time to time there appears a bicycle component which is so obviously "right" in form, finish and presentation that even a cursory glance evokes approval and admiration. These track hubs are of that category. The one-piece bodies are turned from forged light-alloy with "solid" flanges 75mm in diameter and 3.5mm thick at the spoke holes

The latter are not countersunk, but the flanges are angled to the line of the spokes and on the single-sided rear hub are a full 72mm apart to give maximum lateral strength. The plated solid axies are 9mm front and 10mm rear and 100 and 120mm respectively over the serrated locknuts, and fitted with heavily chromed tracknuts.

Precision-ground cones and ball tracks with close-fitting seals give unsurpassed smoothness, and the mirror finish with fine circular chasing on the flanges make a fitment of elegant efficiency, Drillings 28, 32 and 36 (or to special order). 572 gm.



RH-3100 Superbe Custom L/P Pair 1B **STR A4635** 5U £45-73

Superbe Pro

Following the solid-flange lines of the Superbe Custom, these hubs offer the advantage of sealed bearings as used in the small-flange quick-release road hubs (BH-1500). Drilling 28, 32 and 36. 545 gm.

BH-1600 Superbe Pro L/F Each 1B STR A4636 SU £47-62

Pedals

As Superbe Pro road pedals, but with separate track-style sideplates. 278 gm.

PL-2000 Superbe Pro Pair 1B STRAS670 5U £38-95 Side plates for Superbe Pro pedals

Fixed sprockets

Cromo steel fixed sprockets. precision ground, available in 1/a" width, 12-17 teeth.

HC-10	O Sup	erbe Pro	
Each	18	STR A4711	£3-00
HC-90	OL/Ri	ng for racing sprockets	
Each	18	STR A4713	£0-34



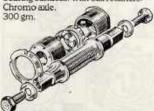




ROAD GROUP

Bottom bracket set

Steel set, chrome-plated cups, lockrings, with ground and hardened bearing surfaces. With ball retainers



BB-100

18 STRA750 SU £12-01 Set

Sealed bearing bottom bracket units

An answer not only to problems caused by the ingress of water and dust, but also that of changing chainline as cranks wear against the tapered axle. This unit can be adjusted sideways within the bracket shell. It features double-sealed bearings, with the cups and the bearings themselves being sealed. The shell, cups, lockrings are of alloy, the axle of steel and the taper suits not only Superbe cranks, but also Campagnolo, Sugino Super Mighty, and others of similar dimensions. In single (track) double and triple axle lengths. 280 gm.

SA-110 double 117mm Set 1B STRA755 5U

£28-40

SA-120 triple 120mm

STRA756 5U £28-40

Chains

Ultra-6

A special 3/12" lightweight Cromo chain for use with any compact freewheels (or standard if required) such as the Ultra range. It has thinner link plates and smaller chain pins for a smaller external width. The link plate inner surface is charnfered for more efficient changing, and the plates have a hardened silver finish.



UC-6000 Ultra 6 Each 1B STR A1925 5U

Superbe An exceptional chain in Ultra size in high-carbon steel which has been Dai-hard treated. Specially shaped outer links, and inner links chamfered for easier changing. Silver finish. An exceptional light and flexible derailleur chain.



SP-6000 Superbe 1/2×1/52×114L Each 1B **STRA1929** 5U £6-31

SUPERBE

Chainwheel and crankset

Forged light alloy double chainset with rings interchangeable with many other popular makes. Inner ring 42 upwards, outer 48-54. Crank lengths 170, 172.5 and 175mm. Includes bottom bracket set. 910 gm.



Double chain set Set 1B STRA1950 5U £62-98

Chainwheels

Inner 4mm thick dural - 1/2"×3/12" sizes 42-47 Each STR A1600

Outer 5mm thick dural - 1/2"×3/10" sizes 47-54

1B STRAIGIO Each £17-23

Chainwheel Bolts Set 5 18 STRA1958 £1.72

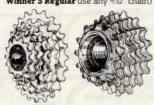
Multiple freewheels

New Winner Regular and Ultra

Sun Tour have an unrivalled range of New Winner freewheels, offering the Winner S Regular in standard width 5 or 6-speed, plus the Ultra-6 and Ultra 7 freewheels in narrow-width 6 or

7-speed. Incredibly, all four types of freewheel use the same body, and many of the sprockets can be used to make up any type of freewheel. The Ultra-6 and Ultra-7 take up virtually the width of a Regular 5 and 6 respectively, but Ultra, Superbe or similar narrow chains should be used. Spare sprockets and spacers are readily available, and the freewheel cones are adjustable using the special TA-180 tool

Winner S Regular use any 3/42" chain)



5 Speed 1/2"×1/32"

NWN 50 13 14 Each	15	 CF2A1	5M	£9-01
13 15 Each			5M	£9-18

6 speed 1/2"×1/32"

NWN 65 13 14 15 16 17 18 Each 1B STR A2880 5M £9-87

2000		16 18 21 STRA2885 5M	£10-30
Delectron and St.	-	17 20 24	
Each	1B	STR A2890 5M	£10-73

Ultra (Use Ultra or Superbe chain)

6 speed 1/2" × 3/32"

STATE CONTRACTOR		
	16 17 18 STRA2920 5M	£10·30
	16 18 21 STRA2925 5M	£10-73
	19 21 24 STRA2930 5M	£11-15
THE COLUMN	20 24 28 STRA2935 5M	£12-01
	20 26 32 STR A2940 5M	£13-04

Ultra

7 speed 1/2"×3/32"

7 apeed 72 ~ 742						
12 Each						£12-44
12 : Each						£12-87
12 Each						£13-30
12 Each						£14-16
12 1 Each						€15-19

Spares for New Winner and Ultra freewheels

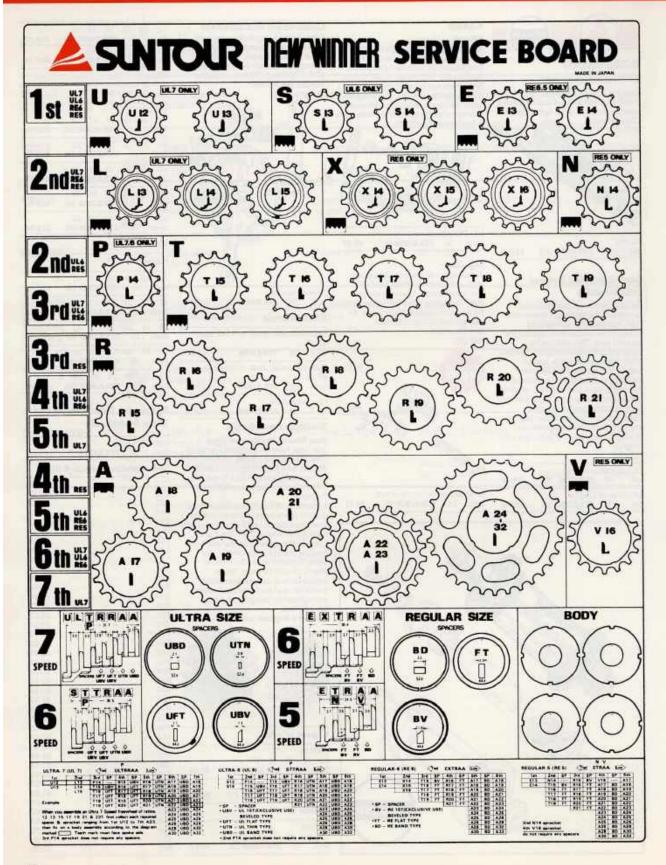
16519	079 B	ody	
Each	18	STR A2980	£6-86

Spare Sprockets Regular & Ultra

U12	£1-12
U13	£1-12
\$13	61-12
\$14	£1-12
E13	£1-12
E14	£1-12
L13	£1-54
114	£1-54
1.15	£1:54
2014	£1-54
X15	£1:54
X16	£1-54
N14	£1:54
P14	£1-12
T15	£1-12
T16	£1-12
T17	£1-12
T18	£1-12
T19	£1-12
R15	£1-12
R16	£1-12
R17	£1-12
R18	£1-12
R19	£1-12
R20	£1-12
R21	£1-12
V16	£1-12
A17	£1-12
A18	£1-12
A19	£1-12
A20	£1-12
A21	£1-12
A22	£1-20
AZ3	£1-20
A24	£1-20
A25	£1-63
A26	£1-63
A28	£1.72
A30	£1.89
A32	£2-06











SUPERBE - continued

Spacers -	Ultra
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UDU	E0.17
UTN	£0-17
UFT	€0-17
UBV	€0-17
Spacers - Regular	
BD	£0-17
FT	£0-17
BV	£0-17
Spacer shims	
39×43×0·1mm SH-100	76
per 10	£1-37
39×43×0·2mm SH-105	411-11-01
per 10	£1-37
44×47×0·1mm SH-200	
per 10	€1.37
44×47×0-2mm SH-205	V240-29102
per 10	£1·37
52×56×0·2mm SH-300	
per 10	£1-37
52×56×0·3mm SH-305	

New Winner display/service board

£1-37

Attractive blue acrylic sheet, chrome hooks, plus spares for all Regular and Ultra freewheels. Includes 4 bodies, 42 spacers and 114 sprockets.

See P.40

per 10

Displa	y/serv	ice board	-
Each	1B	STR A2999	£214-50

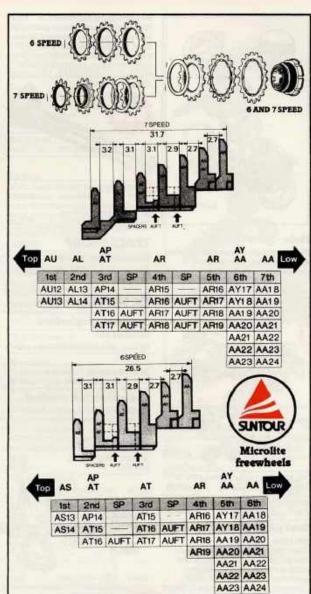
Microlite alloy freewheels Building on the success of the New Winner 5/6/7 speed freewheel, Sun Tour has applied MicroLite Tour has applied MicroLite technology to come up with a freewheel with the mechanism and versatility of the popular New Winner but with a body, sprockets and spacers made of a specially developed super duralumin for staggering lightness, only the bearings, which have precision-ground ball races, and the CrMo clutch cone, are steel. The special alloy used in this freewheel is superior in performance and durability to that used in other alloy freewheels. The unit is available in Ultra-6 and Ultra-7 speed configuration. configuration. 154 gm (13-18)

Microlite Freewheels 6 speed

LF6000		
13 14 1	5 16 17 18	
Each 1B	STR A2972	€58-34
13 14 1	5 16 18 21	- N. W. C.
Each 1B	STR A2973	£60-32
13 14 1	5 17 20 24	
Each 1B	STR A2974	€63-06

Microlite Freewheels 7 speed

LF7000 12 13 Each				€67-52
12 13 Each				£69·33
12 13 Each			24	£72-07



	2010201	AR17	
Spare for Microlite Freew	neels	Each	€6-01
Body complete		AR18	200.
Each 1B STRA2979	£34-32	Each	£6-01
		AR19	
Alloy sprockets		Each	£5-44
AU12		AA17	
Each	£4.72	Each	£5-58
AU13		AA18	
Each	€4-72	Each	€5-58
AL13		AA19	
Each	65-58	Each	£6-01
AL14		AA20	
Each	£5-58	Each	£6-44
AP14		AA21	
Each	£5-15	Each	£6-86
AT15		AA22	
Each	£5·15	Each	£7-72
AT16		AA23	
Each	€5-58	Each	£8-58
AT17		AA24	
Each	£6-01	Each	£9-44
AR15		AS13	
Each	£5-15	Each	£4-72
AR16		AS14	
Each	€5-58	Each	£5-15

AY17	7242
Each AV18	£6-01
Each	£6-01
Spacer	
AUFT	
Each	£0-86
Spares for 'Microlite'	oody
Cone	995
Each	£1-28
Inner body	20000
Each	£10-00
Pawi	****
Each	£0-04
Steel balls (31+42)	
Set	£0-25
Ratchet ring	1000
Each	£2-05
Outer body	NAME OF TAXABLE PARTY.
Each	£15-17
Cover	
Each	£1-50
Stop washer	12002
Each	£0-16
Lockring	
Each	£2-02

Gears - rear mechanism

Superbe II

As the Superbe Pro II, but with a steel top pivot bolt instead of alloy, and with standard jockey pulley wheels.



RD-5300 Superbe II Each 1B STRA3144 SU £23-17

Superbe Tech S, L and GTL Three top-of-the-range rear derailleurs, one with standard dimensions, two others with the long and super-long cage and twin pivot mechanism. Dirt, grit and moisture have interfered with efficient gear changing ever since the derailleur has been invented. Now Sun Tour have succeeded in making a sealed rear learning the design speaker than the succeeded in making a sealed rear learning the design speaker. derailleur. Its design uses two large pivot bushings instead of the more traditional four; the entire shifting mechanism is permanently lubricated and sealed. An unusual cable routeing provides a more direct pull without the friction caused by cable casing or by looping around corners. Instead, a special supplied cable guide (WL-130) needs to be fitted to the chain stay. All models have a light alloy body with a steel cage. Superbe Tech S 201 gm. Superbe Tech L 302 gm.

Super	be Te	ech GTL 307 gm.	
		perbe Tech S STRA3136 5U	£19-31
		perbe Tech L STR A3141 5U	£20-16
		perbe Tech GTL STRA3143 5U	£21-02
		lead only STRA3142 5U	£0-43



GHING

SUPERBE - continued



Gear control levers

Superbe braze-on

Compact slotted levers in forged light alloy, with ring-bolt adjuster.

LD-2050 Superbe double Each 1B STRA3267 20M £7-38

Handlebar stems

A beautifully finished stem in forged light alloy, with deep fluting along the sides of the extension and a cut-out section on top of the clip. A 6mm Allen-key turns the concealed steel expander bolt and the sunken clip-bolt which screws into an 8mm threaded housing, Clamp diameter 25 4mm. 265 gm (for 85mm).



RS-10 Each		STRA4124 5M	£12-28
100m Each	m 1B	STRA4126 5M	£12-71
110mm Each		STR A4128 5M	£13-21
120mi		STR #4130 5M	£13-63

Head fittings

Road headset in top-quality chrome-plated steel with ground ball races. Available in BSA or Campag dimensions with British threads */ie* 172 gm

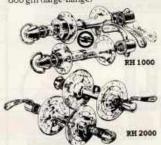
HS-100 Road 1"×24 TPI Set 18 STR A4450 5M £11-15 HS-100 Road 1" × 24 TPI (Campa type) STR A4451 5M

£11-15



Hubs - quick release

Forged light alloy quick-release hubs, silver anodised, with precision ground ball races. Small or large-flange, drilled 28/32/36 with rubber boods for quick-release. Superlative hubs. Spaced for 6 speed. 550 gm (small-flange) 600 gm (large-flange)



RH-10	000 Sm	nall flange 1-37×2	4 TPI
		STR A4650	£47-36
RH-20	000 La	rge flange 1-37×2	4 TPI
		STR A4655	£50-02

Seat pillars

SP-1000

Based on the original Campagnolo design, the Sun Tour Superbe seat pillar is eight ounces of polished perfection. Apart from the steel clamping bolts, everything is in forged light alloy with eight flutes on the pillar and an anodized head affording ample tilt to accommodate all possible frame angles. In diameter 27:2mm, 200mm long.



SP-1000 Superbe - 200mm Each 1B STRA7040 SU £18-12

SP-2000 (300mm) SP-2100 (200mm)

A surprisingly light seat pillar in two lengths, which uses the more secure

two-bolt clamp but places the Allen-key bolt heads in a much more accessible position. In forged light alloy, the pillar has a clamping mechanism which accepts both 7mm and 8mm wires, and gives a saddle angle adjustment of up to 15 degrees



Each	CHARLES P.		
DOCK	IC	STR A7020	£18-88
SP-210	O Sup	oerbe 200mm	
Each	1C	STR A7025	£17-16

TRACK GROUP Bottom bracket set

As road set, but with 109mm axie. 295 gm

BB-300 Cr/Mo steel Set 1B STR A760 5U £12-00

Sealed bearing bottom bracket set

As road sets, but with 108mm axle. 275 gm.

SA-100 Track with 108mm axle Set 1B STR A765 5U Set

Chainwheel and crankset Track version of the popular road

chainset, complete with bottom bracket set and 1/6" single ring (although 1/32" can also be used with this crankset). Crank lengths 165 and 170mm, rings 48-54. 851 gm.



Chainy	wheel	& crankset	
Set	1.B	STR A2000 5U	£56-30
Chaire	wheels	1/2"×"// 48 to 54	210701307003
Each	1B	STR A1650	£17-23

Head fittings

Similar to road set, but slightly shallower, and with 5/32" balls 145 gm.

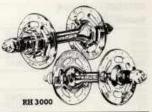
HS-300 1"×24 TPI English thread 18 STR A4470 SU

Hubs - solid spindle

Forged light alloy hubs, silver anodized and buff-polished. Ground ball races, large or small-flange. Drilled 28/32/36.

457 gm pair (small-flange) 535 gm pair (large-flange)





RH-40	000 Sm	nali flange	
Pair	1B	STR. A4670 5U	£41-00

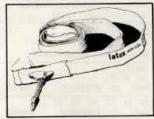
RH-3000 Large flange STR A4680 5U £45-73

SUP'AIR LATE



Latex inner tubes Robert Boulain, who makes these products

is one of the world's innovators in rubber technology. The lightweight inner tubes he makes are so special that they have been adopted by Vittoria for their tubulars. But these latex inner tubes are for use too with HP tyres, giving the "feel" of a lightweight tubular to the humble wired-on cover. Latex is natural rubber. It is strong yet flexible, and far superior to butyl in puncture resistance because it "gives" when a sharp object tries to puncture it. This natural flexibility also gives a much more comfortable "ride" for any given pressure. It also makes better use of a rider's energy. Robert Boulain has tested his tubes and found that using the same amount of energy, a rider has covered 165 kilometres – with ordinary inner tubes only 100 kilometres. These products have an appeal to the lightweight rider who wants to go further or faster, and to the leisure rider who wants more comfort, far fewer punctures, and an easier ride. Each tube comes in protective plastic packaging which can be slipped into a rear jersey, pocket if required. It also comes complete with a measure of talc to aid fitting and to allow the tube to stay mobile within the outer cover when the tyre is at pressure - another aid against punctures.



There are two types of inner tube offered

The traditional latex tube, but extremely light.

700×2	23C	ATRICL	200000
		SLX A9511 12M	£4-00
27×11 Each		SLX A9514 12M	£4-00
650×2 Each	102,500	SLX A9518 12M	£4-00



SUP AIR LATEX - continued

Sup'air Latex
As the Rollatex, but specially treated to give the pressure retention of butyl without its disadvantages.

700×230 Each 1X SLX A9501 12M £4-82 27×1¼" Each 1X £4-82 SLX A9504 12M 650×26B

SLX A9508 12M

SUPER CHAMPION



£4-82

Rims - dural

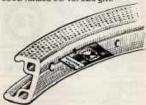
Mixte

Ingenious 700c rim which will accept either HP tyres or tubulars. Ideal for the all-year rider. Satin finished, drilled 36. 520 gm.

SN A6341 5U Pair 1B £15-53

Model 58

A superb light HP rim with amazing strength thanks to its rigid section. Ideal for touring, and also appreciated by tandemists. Polished finish. 27×1¼ (drilled 36/40/48) 565 gm. 700C (drilled 36/40/48) 555 gm. 650B (drilled 36/48) 525 gm.



Mod 58 27×154 SNA6360 10M £12-20 Mod 58 700C

SNA6361 10M £12-20 Mod 58 650B

1B SNA6362 10M £12-20 Extra for other than 36/36



£2.02

Tandem hubs

SUZUE

Solid axle, with solid large flanges for maximum strength. In light alloy, they are spoked 36 front, 36 or 48 rear. The rear hub is double threaded, suitable for a screw-on rear brake such as the Primax-60. Locknut to locknut dimension is 135mm 615 gm (pair)



Front - 36 hole SZE A4614 5M Rear - 36 or 48 hole Each 1B SZEA4625 5M £10-67

MOUNTAIN **BIKES?**



We stock virtually everything for Mountain Bikes.



Dirt Component set. Gears, hubs, pedals, seat boit, seat post, freewheel.

DIA-COMPE

Brakes



Rims



Tyres



Saddles



Gaskets





T.A. is the world's most versatile chainwheel system backed by this French company's years of manufacturing expertise and our own unequalled stocking facilities, which ensure that all kinds of cyclists can find in the T.A. range the right kind of crankset and chainring combination for their use. You can get chainrings from 26 to 68 teeth. There are combinations for the tourist and for the racing man. And even tandemists can find what they need is the T.A. cance with the different chainset formulas to suit their. in the T.A. range, with two different chainset formulas to suit their

preference.
Throughout the range the T.A. watchwords are quality, lightness and good design. For the touring cyclist the CYCLOTOURISTE chainrings are a must, offering double or triple chainrings from 26 to 68 teeth, and using the PROFESSIONAL crankset. Chainwheels of these varying sizes allow you to

tackle any mountain pass, going up or down.

PROFESSIONAL chainings, from 43 to 68 teeth, are meant for use with adaptors, which means they can be used on 3- or 5-pin cranks. Again, there are double and triple combinations, and the adaptor itself adds to the strength of the chainset as a whole, and virtually eliminates problems of

chainrings going out of true.

The CRITERIUM chainrings do not need adaptors, are available to fit either 3-pin or 5-pin cranks, and are available from 43 to 68 teeth. Once again

double and triple chainring combinations are available.

For those who prefer single chainrings, they are available either in the PROFESSIONAL or CRITERIUM style of 1/4 or 3/52 chains and there is even a CYCLO-CROSS chainring which incorporates two dural chainguards to stop the chain unshipping on uneven ground.

The CYCLOTOURISTE, CRITERIUM and PROFESSIONAL adaptor that the CYCLOTOURISTE CRITERIUM and PROFESSIONAL shapes at the contraction of the chain unshipping on uneven ground.

chainings all fit the all-purpose PROFESSIONAL 5-pin crankset. This is not to be confused with the PROFESSIONAL 3-pin chainset, which comprises a bottom bracket set, 3-pin crankset and chainrings which are available from 36 to 68 teeth, an amazing range for a chainset aimed at the racing man. For those who prefer a chainset with a 5-arm spider, and chainrings litting a wide variety of cranks from several manufacturers, the answer can be found

wide variety of crains from several manufacturers, the diswer can be round in the TEVANO range, a recent introduction from T.A.

TEVANO chainsets, with triple, double and single chainrings, are light in weight, made to the highest manufacturing standards, yet are still available at a highly competitive price. Chainrings are from 42 to 56 teeth (from 32 on

Alongside the wide variety of chainrings and cranksets, T.A. offer a selection of drinking bottles and cages, touring bags and supports, pedals, shoeplates

of all kinds, and an alloy headset.

Since 1948 T.A. have answered all your transmission problems. PRECISION — QUALITY — ACCURACY — FINISH — WEIGHT — INTERCHANGEABILITY — RANGE — STANDARDISATION — WALLEY — PROCE — STANDARDISATION — WALLEY — RANGE — STANDARDISATION — WALLEY — WALLEY

AVAILABILITY — PRICE.

AVAILABILITY — PRICE.
You pose the question — T.A. has the answer.
Thousands of cyclists all over the world — club riders, tourists, road racers, track riders, record breakers — all find their requirements in the unrivalled T.A. range of light alloy chainwheels — single, double or triple; track or road — in sizes 26 to 68 teeth (or more if you wish!). With the chainwheels go a range of superb forged alloy cranks — 3- or 5-pin in a choice of 12 lengths.
Remember, too, when you buy T.A. transmission you pay only for the product and not for the "Pro"; T.A. opted out of the race to buy winning "pros" years ago to concentrate on giving amateurs better value.

Bags

Training
A neat and extra strong bag with full zip, suitable for either carrier or handlebar.



271 Training TA A210 5M Each 1B €8-00

The ideal way of distributing weight more forward. Made in top quality brown canvas with reinforced stitched piped edges and centre leather strip. In addition to the large 6"×9"×10" main compartments, the bag also incorporates two side, two back and one front pocket. The top

flap has a plastic covered map holder and folds completely over the bag and is held in position by an elastic which grips the expander bolt. 510 gm.



272 Randonneur TA A215 5M €16-12

T.A. offer a tubular carrier in imitation. leather to match their well-known handlebar bag. It can be fitted to a bottle cage by removing the plastic retainer and slipping the loop of the carrier over the wires and then replacing the plastic piece. Or a toestrap can be threaded through the loop and the carrier fixed behind the

saddle. The carrier can be used to hold a waterproof, an inner tube and several tools. The top is zip-fastened.



273 Tubular bag Each 1B TA A220 £5-23 5M

Bag supports

270

Sturdy front bag, rain cape or tube roll carrier. Using the brake centre and pivot bolts as fixing points, this carrier will support those touring accessories that a rider needs quickly while touring. Made of fine chrome steel



270 Bag support Each 1B TA A300 5M €3.76

PL270

As above but with headlamp fixing bracket



PL270 with lamp attachment Each 1B TAA310 5M €4-63

Bottles

T.A. Bottles are fitted with 'Miracle' caps enabling liquids to be taken without removing the cap. Just release the patented button with a sharp pull with your teeth and squeeze the bottle. T.A. Bottles available with own printed name (Min. 250).

PROFESSIONAL

Ref. 200

T.A.'s world-famous bottle. Made in special polythene to withstand enormous pressure, it is light, will take hot or cold liquids, and is guaranteed against odour. The 'Miracle' cap has a double seal, ensuring a watertight fit, and is attached by a flexible moulded loop with a thumb-push lip for easy opening. 60 cl.



		no badge)		
Each	18	TA A500	25M	£1-03
Fiff bac	ige	Inches Charles	Secretary	2000 F 400
Each	18	TA A505	25M	£1-03
		ce badge		
Each	18	TA A510	25M	£1-03
Bertin	badge	C	CONTRACTOR OF	AND PARTY
Each			25M	£1-03

Tour de France (conical)

Ref. 202

New conical shapeeasy to handle. Attractive printed two-colour France badge. 'Miracle' cap. Holds 65 d.

202 T.D.F. conica 1B TAA530 25M

Isoi Thermic Ref. 147. The latest idea from T.A. Completely insulated without the need for a separate cover. Keeps hot drinks hot and cold drinks cold for long periods.

147 Isol Thermic Each 1B TA A540 5U

Gourde

The needs of the tourist are catered for here, in this squarish "gourd" of tough aluminium. Anodised turquoise outside, its inner surface has a non-taint coating, and the wire and rubber stopper owes much to the old "pop bottle". It's designed for long life and frequent use, and the capacities of 0.75 and 1 litre will be appreciated. Needs a special 218

220 75	icl - Ge	ourde	200	95-65
Each	1B	TA A543	5M	£10-06
222 10	00el - 6	Gourde	000101	
Each	1B	TA A544	5M	£10-33



£0-27

T.A. - continued

Hip flasks

Handy size, strong white plastic hip flasks with non-leak cork. Two sizes.



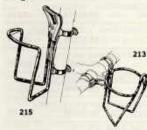
	ize 30cl TA A550	25M	£1-09
	ize 15d TA ASS1	25M	€0-86

Bottle Caps and Corks

		-	
21 Mir Each		TA A560	€0-23
20 Crit	erium	can	200.70
		TA A565	£0-15
03 Cor	k for 3	IOO hip flask	21000000
Each	18	TA A570	£0-36
05 Cor	k for 1	50 hip flask	
Each	13	TA A575	£0-36

Bottle cages

Professional
The 215 steel cage with plastic grip
comes in handlebar, downtube or braze-on versions. 134 gm.



	onal handlet TA A600	£4-13
	onal downtu TA A605	£2-75
	ssional braze	£2-22

The model 214 offers a simpler chrome-plated steel cage with plastic grip for double use. 120 gm.

214 No	o-Pro	downtube		
Each	1B	TA A606	25M	£1-71

Model 412, a budget satin-finished light alloy cage with plastic grip, for downtube use. 60 gm.

412 Re	cord	downtube		
Each	IB	TA A612	25M	£1-75

Record Legere Model 417, light alloy cage, luxury quality, anodised black or silver, in ip-on or braze-on versions.



Each	18	TA A615	25M	£3-98
417AE	Reco	rd Legere bra	aze-on	
Each	18	TA A620	25M	£3-37

218Fc	or Gou	rde with D/Te	ube dip	5
Each	1B	TA A623	5M	£4-40
218AE	ForG	ourde braze	on fittir	ig.
Each	13	TA A624	5M	£4-00

218NU For Gourde, cage only Each 1B TA A625 5M £3.73

Bottle and cage sets

Record

Ensemble of Record alloy cage and white plastic bottle with detachable cap. 110 gm.

382 R	ecord o	ensemble, de	wntube	S
Each	1B	TA A639	10M	£2.23

Gourde

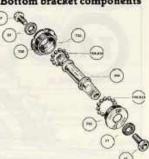
Ensemble of Gourde bottle (see above) with special cage. Two bottle

0.57L Set		rire clip stopper TA 8645	£14-46
1-00L	With w	rire clip stopper	
Set	18	TA A646	£14-72

Bottle Cage Spares

Set		ndlebar clips & bolts TA A660	£0-80
15 Pro	set do	wntube	
Set	1B	TA A665	£0.58
17Se	t clips f	or Record cage	
Set	1B	TA A670	£0.71
16 Cr	tenum	downtube clips	
Set		TA A675	€0-52

Bottom bracket components



armoo	20.00		100000	200.01
(UK)	Set of	2 cups & lock	rang 1	3/0×24
Set	18	TA A700	5U	£7-73
ITA70	9 Set o	f2 cups & lo	ck ring :	36×24
(Italia:	n) 1B	TA 8705	SII	67-73

Set	1B	TAA706 5U	£7.73
37 Set	of 2 a	de end bolts with wast	vers
Set.	18	TA A710	£0-42
314Ax	le for	single ring 111-5mm	
Each	18	TA A715	£7-26
344 Ax	ie for	double ring 114-5mm	X
Each	18	TA A720	£7-26
373 Ax	le for	triple ring 118-0mm	
Each	18	TA A 725	£7-26
374 Ax	le for	triple ring 123 Smm	
Each	18	TA A730	£7-26
375 Ax	le for	tandem 125mm	
		TA A731	£7-26

S1709 Set of 2 cups & lock ring 35 x 100

Chainwheels

Each 1B TAA735

12 Plastic sleeve

Professional 3-pin (36-68 teeth) For use with W1693 cranks.

Anodised.

intenn	ediate	5-68 teeth (al.)* TAA 1600	an it	€8-30
Each	4.10	INVIOU	ESHM.	E0.30
263 in triples	ner 36	-60 teeth for	doubles	and
	18	TA A1605		£8-30
23PA:	semb	by bolts for sit	ngle	
Set	18	TA A 1620		£1-52
AT Acc	arabh	bolts for dou	dita	
Set		TAA1625	NAME OF THE PERSON NAME OF THE P	£1-53

Set	18	TA A 1620	£1-52
		bolts for double	
Set	27076	TA A 1625	£1.53
83 As	sembly	balts for triple	
Set	18	TAA1630	£2-62

Professional adaptor chainwheels

(43-68 teeth) The finest combination for racing. Double or triple chainrings for 1/2×3/32" chains assembled on to an adaptor having a continuous double flanged rim that gives comparable rigidity and ensures that the rings always remain true. The same adaptor rings fit either 3 or 5 pin adaptors.

Singles and triples also available Polished finish.





1040	iter 43	8-68 teeth*		
Each	18	TA A 1640	25M	£5-94
106 ln	ner 43	-60 teeth*		
Each	18	TA A1645	25M	£5-94

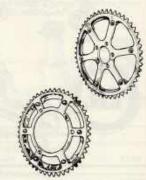
Adaptors only for Professional

1733-	pin Ro	ad		
Each	18	TA A1652	25M	£9.55
1755-	pin Ro	and		0.0
Each	1B	TA A1653	25M	£9-55

Professional chainwheels complete with adaptor

TAA1660	£22-97
	77.00
TAA1661	£22-97
king bolts 5-pin (se	to(5)
TAA1670	£0-66
	ting bolts 5-pin (se

Criterium chainwheels (43-68 teeth) Criterium doubles and triples offer exactly the same range as the Professional but without the use of the adaptor, thus saving slightly on both weight and price.



		r 3-pin* TA A 1700	25M	£8-30
CR205	Oute	r5-pin x'		
Each	18	TA A1701	25M	£7-08
204 In	ner*	7 1000	ri T	
Each	IB	TA A1702	25M	£5-94
22031	Double	3-pin*		
Set	18	TA A1710		£15-86
22051	Double	e 5-pin x		
Set	18	TA A1711		£14-63
32027	riple :	3-pin*		
Set	1B	TA A1712		£22-37
32057	Triple !	5-pin x*		
Set	1B	TA A1713		£21-15
25 Cra	mk fixi	ng boits (set	5)	Secret Valle
Set	1B	TA A1670		£0-66
64 Ass	embi	y bolts (set 6)	for dou	ble
chainv				
Set	1B	TA A1720		£1.61
68 Ass	embh	bolts (set 6)	For trip	de
chainv				OLIVACE.V
Set	1B	TA A1725		£2·19

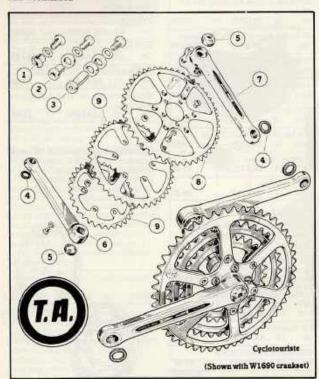
Cyclotouriste chainwheels (26-68

teeth)
The incomparable double and triple chainwheels for touring, the Cyclotouriste (5 pin only) offers a tooth range that meets every requirement.

Recommended, as all other doubles and triples, to be used only with 1/2" × 3/32" chains. Remember every T.A. chainwheel is surface plate tested for truth before despatch. Use with W1690 Professional cranks. Polished finish.



T.A. - continued



CY205	Outer	5-pin x*		
Each	IB	TAA1750	25M	£7-08
208 In		-41 teeth	20000000	0.000000000
Each	18	TA A1751	25M	£6-09
208 In		-35 teeth		
Each	18	TA A1752	25M	£4-00
R2081	nner 4	11-52 teeth (n	einforce	d model)
Each	1B	TA A1753	25M	£7.08
22351	Double	5-pin (26-35	inner)	x*
Set	1B	TA A1760		£12-69
22351	Double	z 5-pin (36-52	(rsont	x*
Set	1B	TAA1761		€14.79
32351	Triple !	5-pin (26-35)	inner)	x*
Set	18	TAA1762		€19-36
3235	Triple!	5-pin (36-52)	nner)	x*
Set	1B	TAA1763		£21-46
25 Cra	ink fix	ing bolts		
Set	1B	TA A1670	4	£0.66
64 Ass	embl	y bolts for do	uble c/w	
Set	1B	TA A1720	Commission of	£1-61
86 Ass		y bolts for trip		cels
Set	1B	TAA1725		£2-19

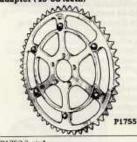
Single adaptor chainwheels (43-68 teeth)

P209 Adaptor chaining 'w' or 1/22"* Each 1B TAA1780 25M

Adaptors only for above

P1733-pin Each 1B	TAA1785 25M	£9-55
P1755-pin Each 1B	X TAA1786 25M	€9-55

Single chainwheels complete with adaptor (43-68 teeth)



P1753: Each	TA A1790	£17-71
P1755	TA A1791	£17-71

£1-11

1B TA A1795



		or 3/12" 36 to 68 teeth TA A1800	€8-30
2055-	pin Vi	or 30" 36 to 68 teeth	. *
Each	1B	TA A1805	£7-08
2055-	pin 1/e	or 352" 26 to 35 teeth	x
		TAA1810	£5-05

- Boils to fix chairwheels on crink. Ref. 25 TAA1670. Boils for double chairwheels. Ref. 64 TAA1720.

- Ref. 64 TAA1/720.
 Both Set right chainwheels.
 Ref. 86 TAA1/725.
 Wesher for pedal. Ref. 137 TAA1992.
 Dust cap for came. Ref. 31 TAA1993.
 Left-hard cranks. Ref. W625 TAA1991.
 Right-hand crank. Ref. W515 TAA1990.
 Chainwheel 5 pin, type Cyclotouriste.
 Ref. CY205 TAA1/50.
- leuser chairnwherel, type Cyclorouniste. Ref. 208 TA A1751/2

Chainwheels (single cyclo-cross)



1203 Chainwheel Special 3-pir Each 1B TA X1820 5M

1205 Chainwheel Special 5-pin Each 1B TAA1825 5M £21-55

€21-55

Cranksets

Crank lengths available: 150 - 160 - 162-5 - 165 - 167-5 -170 - 172-5 - 175 - 177-5 - 180 -185mm

Professional W1690 5-pin The all purpose crankset. All standard 5-pin chainwheels (from 26 teeth) and adaptors will fit these cranks which are held in position by large-headed, extra long axie end bolts on to the standard square-end cotterless axle. Silver anodised finish Warning: please ensure that the pedal stop washers (ref. 137) are used They are supplied with every complete crankset.

W1690 Crankset comprising 2 cranks, bracket set & axie Set 1B TAA1950 SM

£35-62 W1690/1 Crankset with 205 single ring Set 1B TAA1955 £43-

W1690/2 Crankset with 2235 double Cyclotouriste rings* (26-35 teeth inner) Set 1B TAA1960 £49-£49-92

W1690/3 Crankset with 2235 double Cyclotouriste rings (36 to 52 inner) Set 1B TAA1961 £52-03 W1690/3 Crankset with triple ring (26-35 inner) 1B TA A1965

£57-24

W1690/3 Crankset with triple ring (36-52

Set

inner) £59-27

1B TA A1966

W515 Right hand crank %e×20F Each 1B TA A1990 £15-22

W625 Left hand crank 1/16 × 20F Each 1B **TAA1991** £11-71

137 Pedal stop washers Pair 1B TA A1992 £0-15

31 Axle end dural dust cap 1B TAA1993 £0-80

Professional W1693 3-pin

Designed expressly for modern racing. Wider and more rigid crank form and extra solid short forged arms that will accommodate all the T.A. 3-pin range from a minimum of 36 teeth up to 68, this set gives a combination of rigidity of crank and rings plus a variation in teeth range that cyclists have long sought after

It uses the same bottom bracket axle as the popular W1690 set, and can be used with single, double or triple chainwheels.

W1693 Road crankset comprises 2 cranks, BB set & axie Set 1B TA A2000 SM £45-59

W1693/1 Road crankset with single chainwheel*

Set 1B TA A2020 £55-92

W1693/2 Road crankset with double chainwheel'

1B TA A2025 £63-73

W1693 Road crankset with triple chainwheel*

1B TA A2030 Set £72-94

WP1693 Track - LESS chainwheel* Set 1B TA A2050 £47-63

W513 Right hand road crank

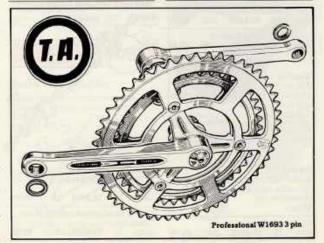
Each 1B TA A2055 £19-28

WP513 Right hand track crank Each 1B TA A2060 £21-34

W625 Left hand track/road crank Each 1B TA 82065 £11-70

Other spaces as W1690

Extra for crank lengths other than 170mm





T.A. - continued

Cranksets - Tandem

There are two formulas of providing T.A. tandem transmission. Formula 1 (crossover drive) and Formula 2 (straight-through). Formula 1 allows the true use of triple rings, while Formula 2, although allowing a rear triple set, in fact only offers the effective use of the outside two rings,

effective use of the outside two rings, the inside ring being purely a drive link to the front chainwheel.

Formula 1 comprises; 2 cranks Ref W515FG; 1 crank Ref W515FG; 1 crank Ref W515FD (left); 2 sets of bottom bracket cups Ref. W709; 1 axie Ref. 344; 1 axie Ref. 374 or 344; 2 chain wheels, 30 teeth Ref. 201; and 1 triple Ref. 3235 (Chainning sizes to choice) or double Ref. 2235.

Formula 2 comprises: 2.5-pin crankest Ref. 1690; 1 chainwheel 30 teeth; and 1 double or triple special "tandern" Ref. 2235 or 3235 (Chaining sizes to choice with 30 tooth inner ring). Metric threads available to special order.

Formula 1 crossover drive 5-pin

W1690 T Professional tandem (with triple ring)

IR TAA2100 5M €107-73

W1690T Professional tandem (with double ring) Set 1B TAA2105

W1690 T Professional tandem (without triple or double ring! 1B TA A2107

Formula 2 straight through drive 5-pin

W1690T Professional tandem straight through drive Set 1B TAA2110 5M £100-16

*Supplement 53-68 teeth EXTRA to above

prices for each tooth above 52 Extra per tooth

Special Chainwheels 203 & 205

Transfer of the second	£1-27
101 to 140 teeth for every tooth Each	£1-77

Supplement for anodising (per piece) (i.e. ring or crank)

Extra for cranks other than 170mm £3-43 Pair

Head fittings

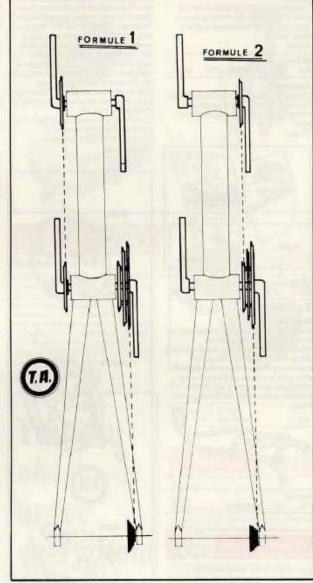
Alloy headset

Aluminium alloy components with steel bearing races. 110 gm.

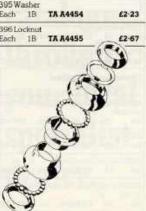
3900 Complete with ball bearings Set 1B TAR4400 5M £33-09

Headset Spares

391 Fe	ork cro	wn race	
		TA A4450	£4-47
392 B	ettom	frame race	
Buch	10	TA A4451	€9-57



394 Ad Each	1B	TA A4453	£10-25
395 W	asher		
Each	1B	TA A4454	£2-23
396 Lo	cknut		
Each	1B	TA A4455	£2-67



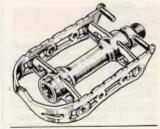
Pedals

T.A. have entered this field with road and track pedals fitted with inner

needle roller and outer annular ball-bearings. The inner roller bearing is sealed against water penetration.

The dust-cap, which is three notched for removal by special tool, is fitted with an oil-gun nipple. The body is in high-grade aluminium alloy and a novel feature is that the cage is attached by four sturdy flat-headed Allen screws: both front and rear plates have threaded holes for toe-clip fitting, also guides for toestraps and are thus fully reversible and interchangeable when worn

Track pedals have separate front and back plates. Road pedals have a one-piece plate with quill Track 290 gm. Road 300 gm.



W4690 Rd TA A5600 5M 1B



1B	TA A5610	5M	£53-36
place	ment pedal co	ige&f	bring screw
1B	TA A5630		£12-88
place	ment pedal ci	ige & fi	xing screw
18	TA A5635		£12.88
	1B place	1B TA A5630 placement pedal ca	placement pedal cage & f

Orthopaedic
Many cyclists, troubled by
unaccountable pains in legs, hips or
back, finally discover that they have
legs of unequal length. Now T.A. are
offering a special "made to measure"
senses to company to the property of the property oneining a special image to measure service to compensate for such anatomical peculiarities. Based on their alloy track pedal, the Orthopaedic Pedal has interchangeable cage plates. A standard pedal would be partnered by one with plates of a greater depth by one with plates of a greater depth. The recommended increase in depth would be two-thirds of the difference in leg length, a dimension that must be supplied by the customer. Clearly these pedals are to special order only, but they cost only slightly more than the standard T.A. pedal.



P4690/SO Piste Orthopaedic (special order 1B TA A5615 £60-91

Seat bolts

365 CF	irome	- Allen key fitting	
Each	1B	TA A6875	£1·39
368 As	voda	e with brake hanger	
Each	1B	TA A6880	£2-53



T.A. - continued

Shoe plates

Anquetil Road
Forget duralumin in 3 pieces riveted
with copper. Road model has extra long base plate and Jacques Anquetil claims this design helps avoid cramp in long, hard races 56 gm.

38 Anguetil Road Pair 1B TA A7200 25U €2-30

Anguetil Track

The track model is shorter with deep slots and an extra strong base plate 63 gm.

39 Anquetil Track

1B TAA7205 25U £2-16 Pair

Extra light. Extra strong. Practical. Easiest to fit because of location slot.

36 Criterium

1B TAA7210 25U

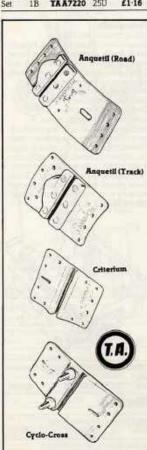
Cyclo-cross

Superb one-piece alloy shoeplates with deep centre slot. The shoeplate base is threaded to take two detachable 3/6" long spikes. Supplied complete with fixing tacks.

Spikes can be obtained separately.

41 Cyclo Cross (inc. spikes) Pair 1B TAA7215 25U £2-88

27 set of 4 spikes for 41 Set 1B TA A7220 25U £1-16



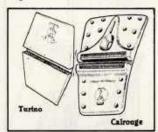
Turino

Two-piece leather riveted to centre steel strip which allows the plates to be moulded to the contours of any shoe sole 42 gm.

40 Turino - leather Pair 1B TA A7225 25U

Calrouge

Strong red plastic with reinforced slot. Specially curved to suit cambered racing shoe soles. Easy to fit and so

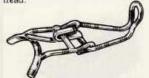


42 Calrouge reinforced red plastic Pair 1B TA \$7230 25U

Tyre saver

Raclette

For those who want the maximum of tyre and tubular life with the rninimum of punctures, the Raclette is the answer. This chrome plated accessory fixes to the centre-bolt of side-pull or centre-pull brakes and dislodges flints and other sharp objects before they can damage the tread.



18 TA A7910 Pair

TEVANO

Described as the newest name in chainwheel and cranksets, the Tevano is nevertheless made by the well-known T.A. concern, and carries a handsome mechanical specification. The set comes complete with bottom bracket set. The cranks are forged from aluminium alloy of the highest mechanical characteristics and the precision finish resulting in a satin-sheen gives a high degree of weather-proofing.

The same treatment is given the chainwheels. The teeth are shaped by a milling cutter.

High-carbon steel, turned and polished, is used to make the axle and cups, which have trued ball-tracks. The fixing bolts are self-centering with the inting boils are self-centering v socket heads polished and chromium-plated. Chainwheel sizes are 42 to 56 and these are interchangeable.

The set is five-arm fitting, cranks, chamfered and outer ring cut away, in the same manner as Campagnolo, whose rings will fit the Tevano

crankset and vice versa. The set will fit the bike easily and includes a plastic sleeve to keep water away from the bearings. The triple set has an inner ring from 32 teeth upwards. Total weight is 815 grams for the double set, once again exactly the same as you-know-who's, which includes a titanium bottom bracket axle against the Tevano's high-carbon steel. Standard crank length is 170mm but other lengths are available to order at slight extra charge. Look for the Tevano trade mark — a

globe with a feather across it, adoming the top of the cranks Chainwheels Available 42-56 teeth





555 up to 52 teeth* Each 1B TO A1850 10M £10-30 P555 up to 52 teeth* Each 1B TO A1860 10M £10-30

Chainwheel & Crankset

(Anodised cranks)

AX5000 comprising pair of cranks, BB set and axle 1B TO A2150 5M

AX5000/1 with single ring x* Set 1B **TO A2155** 5M **£70-74**

AX5000/2 with double ring Set IB TO A2160 5M £80-38 A5000/3 with triple ring rings available

32-56 1B TO A2161 SM *Supplement 53-56 teeth extra to above

prices for each tooth above 52 Each £1.05 554 L.H. crank x Each 1B **TO A2165** £11-69 553 R.H. crank Each IB TOA2166 £29·16 57 Pedal washers Pair 1B TO A2170 £0:15 55 Assembly boits 18 TO A2175 £2-86 Set 35 Assembly bolts Pista 1B TO A2177 £2.63 51 Axie end dural dust cap Pair 1B TO A780 €0.80

x Extra for other than 170mm cranks €4-60

3 TTT



Handlebars - dural

Record Competizione

Heat-treated, progressive strength curve with large centre section size, 40 or 42 cm widths.

Road — Tour de France - Merckx Gimondi.

Track - Pista



Tour de France 1A TTT A3701 20M €9.71 Gimondi TTT A3711 20M £9.71 1A Each Merckx TTT A3716 20M Each £9-71 Pista

1A

Each

Aerodynamic
The Record Competizione bar with a changed section on the upper part, for improved streamlining. Shape, the new Saronni, and 42 cm, 43 or 44 360 gm.

TTT A3721 20M £11-06



Aerodynamic Each IA TTT A3723 20M £13-73

Record Competizione Superleggero

Very light road bars for that extra-special event. 40 or 42 cm, in Tour de France, Gimondi and Merckx shapes 250 gm

Tour de France Each 1A TTT A3741 20M £16-60 Gimondi Each 18 TTT A3747 20M £16-60

Merckx

1A TTT A3751 20M £16-60 Each



3 TTT - continued

Handlebar stems - dural

Record Road

Beautifully finished stem, forged, with Allen-key clamp and expander bolts. Lengths 6-14 cm. Weights: 65 cm/238 gm, 13 cm/300 gm.



Record Road 6 to 9 cm Each 1A TTT A4051 20M

Record Road 9-5 to 14 cm

1A TTT A4056 20M

Record Pista 2 As the Record Road, but with 64-degree slope to the extension, for track work. In lengths 11-13 cm.



Record Pista 2

Each 1A TTT A4061 20M £17-10

Forged from the highest quality light alloy, its presentation and finish are impeccable. The extension is a tapering broad-oval section and the clip is tightened from below by a socket-headed sleeve-nut screwing over a threaded steel spigot let into the underside of the extension, invisible when screwed home. The appearance is very neat and frame 6mm Allen key will turn the concealed expander bolt. Bolt and screw are in rustless black finish. From 250 gm.



Record 78 Each 1A

TTT A4058 20M £12-14

AR 84
This latest addition solves the eternal problem of inserting handlebars without difficulty or damage to the surface of the metal. Alongside the concealed clamp bolt at the rear of the clamp, an allen-key grub screw can be tightened to force open the clamp for handlebar insertion. A wedge is

also included in the package for use when tear-drop aero bars need to be inserted. In light alloy, 9 - 13 cm. 280 gm.



AR84

€9-05

TTT A4062 20M €13-08 Each

Record Adjustable

Adjustable Record stem, transverse grooved for positive location. With expander and wrench, forged in light



Record Adjustable

1A TTT A4072 20M 620-12

Handlebar stem spares

BR Rec	ord ci	ip bolt	
Each	1A	TTT A4106	£0-60
		d expander bolt TTT A4110	£0-93
		78 clip bolt TTT #4116	£0-63

Seat pillar

Criterium Single-bolt fixing and adjustment, pressed and forged in duralumin, with a grooved 160mm pin. Our lightest micro-adjusting pillar 180 gm.



RSCA Criterium

TTT A7038 10M £12-17

BRSCA Criterium seat bolt TTT A7050 1A

£0-85

TANGE

Head fittings

New Levin
All-steel construction, with ground and polished races and polished chromium-plated finish. With two caged races of 15×½2" steel balls. This is one of Britain's most popular headsets for all-round and especially racing use.

155 gm.

New Levin Set 1X TGE A4445 5M €5-99

90 gm

Levin Alloy
Alloy headsets come out of the luxury price range with this model, which uses steel for its ball bearings and the inset race tracks. It offers a worthwhile weight saving at a reasonable price. Can be used for road and track. Includes two caged





Levin alloy 1X TGE A4449 5M £12-39

VELOX

Handlebar tape

Herringbone twill adhesive tape in rolls of 2-5m×20mm. Colours red. royal blue, white, black



85 Tressorex twill tape Each 1C VXA4280 20M

Repair outfits (for tubulars)

Metal box 80×60mm containing:-3 round patches 20mm. 2 round patches 25mm. 1 rubber sheeting

70×50mm. 1 tube Velox solution. 1 each thread card, needle, thimble, 1 emery paper.



No. 5 in metal box Each 1C VX A6220 10U £1-36

No. 2 De Luxe (workshop) Metal box containing workshop kit.-3 round patches 25mm. 2 round patches 25mm. 1 rubber sheeting, 2 self vulcanising Flac patches, 20mm dia. 1 self vulcanising Flac patch 30mm dia. 1 tape for protecting puncture. 1 needle, 1 thimble. 1 tube Velox rubber solution. 1 tube Tubasti glue. 1 tube Flac self vulcanising solution. I marker pencil. 1 Velox thread card. 1 ernery paper. 1 thimble.



No. 2 De Luxe Soch 1C VX A6225 10U

Repair outfit (standard)

A miniature outfit intended for narrow, high-pressure tubes. In a small plastic box with ten 15mm circular rubber patches, a 30×40mm patch-strip, emery paper, marking crayon and a small tube of Velox solution.



£0-78

Each 1C VX A6260 20U



VELOX-continued

Rim cement

Tubasti

Tubular tyre cement used by the champions, permits several successive tyre fittings without renewal



42 Tub	asti se	mail tube		
Each	1C	VX A6410	200	£0-64
		mall pot	PARTE.	
Each	10	VX A6415	10U	£2.74

Adhesive primer

Adhesive primer for dural rims patented. Ref. No. 47. A special liquid adhesive for increasing the holding properties of rim cernent and rim tapes when used just once a year. Can be used for sticking down non-adhesive handlebar tape and for sealing the ends of all handlebar coverings.



47 Adi	nesive	Primer		F. E.
Each	10	VX A6425	100	£2-50

Rim tapes

Jantex Users of tubulars who prefer the Osers of tubulars who prefer the deanliness and long lasting qualities of sticky rim tapes to shellac or cement will find Jantex tape something special. The tape itself is practically indestructible — once fitte it is immovable and tyres can be once fitted removed and replaced repeatedly without the adhesive losing its gripping qualities. Highly recommended



40 Jant	ex			
Each	1C	VX A6520	20U	£1-56

Rim Strip
Extremely tough rim tape in
adhesive-backed cotton, made for the
wells of narrow H.P. tyres. Supplied in 16mm width, either in 2-metre rolls for one rim, or for bulk use in 100m



51 Rin	Strip	2m	
Each	1C	VX A6522 10U	£0-82
51bis 8	Rim St	rip 100m	110001000
Roll	1C	VX A6524	£25-60

Sewing thread

Jantex 10 metres of finest tubular tyre sewing thread complete with needle



Jantex	10m			
Each	1C	VX A7100	20U	£0-84



Handlebars - mountain bike MT-28

MT-28
Combination handlebar/stem unit in chrome-moly steel, for rigidity. The bars are 700mm wide, with a rise of 65mm, while the stem section has an extension of 120mm. A built-in hanger for a centre-pull brake cable is a welcome inclusion.



MT-28 Cr-Mo bar and stern combined Each 1B WIN A3370 SU £23

Handlebar stems

Crest KPY

Steel stem with no extension piece. For 22-2rnm bars. 340 gm.

Crest F	PY		
Each	1A	WIN A4100 10M	£1-8

Medal

Inexpensive melt-forged stems in either 5 or 8 cm lengths.



Medal	50mn	n forward extension	
Each	1A	WIN A4110 10M	£3-19
Medal	80mr	n forward extension	
Each	1A	WIN A411510M	£3-42

A forged light alloy stern with Allers key bolts, and a distinct weight-saving slot in the front of the handlebar clamp. In silver or black



Medal Each		ype 85mm WIN A413010M	£8-77
21111	370		Transiti
Medal		type 100mm	
Each	1A	WIN A4135 10M	£9-45

WOLBER Tyres - H.P.

Invulnerable
A high-pressure outer cover with a casing of rubbered Egyptian cotton and a fast mixed tread. Under the tread is a band of stainless steel mesh which wards off punctures. Size 27×1" or 700 c 500 gm.



W237	00cln	vulnerable	
Each	1X	WR A5168	£7-60
W232	7×1"	Invuinerable	
Each	1X	WR.A5169	£7-60

ZEUS

These Spanish-made components come in three main price levels. The New Racer range is bargain priced, aimed at the newcomer or rider with tight purse-strings. Criterium products, where available, are middle range, while top-level demands are supplied in the Supercronos and 2000 ranges. All share the distinctive Zeus designs.

Bottom bracket sets

23200	00 N	ew Racer road dou	
Set	1X	25 A701	£7-90
23100 road/b		percronos chrom	e-steel.
Set	1X	ZS A705	£12-46
	0.00 20	OOO Titanox B/Bkt	Set, road
Set	1X	ZS A740	£30-63
23030	0.00 Di	Rto track	
Set	1X	ZS A755	£30-63
Spare	es for	steel B/B sets	
4310	3.00 St	upercronos axie-m	and track
Each	1X	ZS A726	£8-83
4310	.00 D	itto Tripie/Cross	
Each	18	ZS A727	€8-83

	ZS A726	£8-83
	tto Triple/Cross ZS A727	£8-83
	xed cup BSC ZS A728	£3-47
	j cup BSC ZS A729	£3-62
	Ring BSC ZS A730	£2·03

53105			SERING.
Each	1X	ZS A731	£0-60
53004	.00 Es	id bolt washer	
Each	1X	ZS A732	£0-29
Spare	s for	Titanox B/B set	
33001	.00.20	000 Axle-road	
Each	1X	ZS A760	£17-36
33003	00.20	000 Axle track	0.00000000
Each	1X	ZS A763	£17-36
43005	:00 20	000 End bolt	
Each	1X	ZS A765	£1-88
3300€	.00 20	000 Fixed cup	AAA 390-
Each	1X	ZS A766	£10-81
33007	.00:20	000 Adj. cup	
Each	1X	ZS A767	£9-47
43008	3.00 20	000 Lockring	THE A WARRY OF
Each	1X	ZS A768	£2-58

Brake sets

New Racer This shallow-depth alloy side-pull has a modern design featuring a simplified centre-bolt, and cable adjustment both in the stirrup and on the perforated lever, which has a brown rubber hood. This is a no-nonsense brake at a down-to-earth price for the budding champion.



40000			_	
27400	00 N	ew Racer Std.	Bolt	
2007		ZS A812		£20-32

Supercronos Side-pull design in Super Earlumin II. This latest top-line Zeus brake has aerodynamic brake shoes, a quick-release on the upper arm and comes either as a short-reach 40-50mm version with Allen-key centre bolt, or a standard reach (46-56mm) with standard bolt. The levers are drilled, with rubber hoods.



27000	0.00 SE	allow Allen K. Bolt	in admiration
Pair	1X	ZS A814	£42-06
27000		andard - Std. Bolt	Triangle (and
Pair	1X	ZS A817	£42.06



ZEUS - continued

Brake levers

37401	.00 N	ew Racer	2
Each	1X	ZS A816	£5-00
37001	.00 St	ipercronos	
Each	1X	ZS A818	£5-63

Brake lever hoods

57031	.00 Tr	anslucent	
Each	1X	ZS A1420	£1-34

Brake block and shoes

37019.00	New Racer/Superci	ronos
(shaped)		
Each 13	ZS A825	£0-97

Chainwheels

43011	00:20	00 and Supercro	onos inner
outer r	oad 3t	5-56T 1/52"	
Each	1X	ZS A1630	£24-75

43016	00 2000 & Supercronos track
15.876	

Each	1X	ZS A1635	£24-50
43211	00 Ne	w Racer inner/o	uter 36-56T

352"			
Each	1X	ZS A1640	£15-62

Chainwheel & cranksets

New Racer

A design for the 1990s. Polished duralumin cut-out rings are married with satin-finished cranks which have aerodynamic lines, chamfered at the shoulders and easing gently away from the axis before being subtly straightened to achieve the correct pedalling plane. Cranks are 170mm, with rings 36 to 56 teeth. Complete with bottom bracket set and liner.



1320	0.00 Ne	w Racer	
Set	IX	75 B1970	643.33

Supercronos

A superbly stylish crankset using aerodynamic cranks, the right-hand one blending into one of the five crank arms. The detachable rings are perforated, and available 36 to 55. Crank length 170mm. Complete with bottom bracket set in road double or 155mm trade sindle surveions. In 165mm track single versions. In Super Earlumin II 863 gm. (double)

13100	.00 Su	percronos road	double
Set	1X	ZSA1975	€57-42

_			
1313	0:00 Su	percronos track	
		ZSA1977	£47-89



2000 Manufactured in Super Earlumin II Manufactured in Super Journal of (Special light metal forged and thermically treated at 45 Kg/mm2) these sets offer unrivalled strength with exceptional lightness. Cranks are available in 6 lengths from 165 to 177.5mm and have three slotted cutouts in each crank. The interchangeable rings range from 36 to 56 teeth and are finely drilled and cutaway. Delivered less tool set but with Titanox bracket set and double chainwheels. Double road or single track (14") versions 840 gm. (double).



13000	0:00:20	000 road	
Set	1X	ZS A2005	£109-60
13030		000 track	TELEVANIE
Spt	18	ZS A2020	£98-05

Spare Cranks

New	Cacer	& Supercrono	
43218	.00 Ra	oad R.H.	7.077000 (3.10.10)
Each	IX	ZS A1983	£21-23
43219	.00 R		
Each	1X	ZS A1984	£9.03
43214	.00 Tr	ack R.H.	DAY TUT
Each	1X	ZS A1987	
43215	.00Tr	ack L.H.	
Each	1X	ZS A1988	

(165, 167.5, 170, 172.5, 175, 177.5)

	oad R.H. ZS A2050	£41-42
	oad or track L.H. ZS A2055	£21-37
	ack R.H. ZS A2057	

Cring assembly bolts New racer and Supercronos & 2000

	oad – Double ZS A2060	€0-74
	Cross & Triple ZS A2062	£1-11
	ack – Single ZS A2064	

Freewheels

Criterium

A superb compromise between the strength of a steel freewheel and the lightness of an alloy one. The Criterium freewheels, 5 or 6-speed, use exactly the same alloy body as the 2000 model, but with golden steel sprockets, so at any time the user can "move up" to an all-alloy freewheel at will. Standard sizes as follows, which can be modified using a full range of spare sprockets from 13 to 26 teeth. 265 gm. (5-speed 14-18)

5 speed 14-16-18-20-22

6 speed 13-14-15-16-17-18 13-14-15-16-18-21 13-15-17-19-21-24

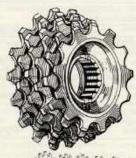
		terium 6-speed ZS A2498	£22-54
29200	.05 Cr	iterium 5-speed	
Each	11	ZS A2499	£20-08

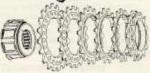
2000

The light alloy splined cog freewheel was the first item developed for the 2000 series. It is super-light and made like a precision watch with all cogs removable from the splined body without separating the freewheel from the hub. Interchangeable dural cogs 13 to 30 teeth. Same body for speed and such is the versatility of the freewheel that any combination between 13 and 30 teeth can be obtained with only 22 sprockets. 230 gm. (5-speed 14-18). Standard ratios:

5 speed 14-15-16-17-18 14-15-16-18-21 14-16-18-21-24

ospeeu	
13-14-15-16-17-18	
14-15-16-17-18-19	
13-14-15-16-18-21	





29100	06 20	000 6-speed	
Each	1X	ZS A2500	£68-49
29100	05 20	0005-speed	20000
Each	1X	ZS A2510	€57-59

Freewheel spares 2000 & Criterium

39001	.00 Bc	dy only	
		ZS A2550	£19.79

2000 sprockets

	loy splined 15-30T ZS A2557	£14-83
	loy Duplex screwed 5, 14-16, 15-17, 16	
13-15	ZS A2560	£19-44

£4-85

1X 2S A2565 Each Freewheel Spares - Criterium

aproc	-		
		zs A2569	£1-64
		uplex 6-speed 13-	14, 13-15,
14-15,	14-16	5, 15-17, 16-18	
Each	1X	ZS A2570	£7-91
49230	.00 5	rewed 5-speed 14	1-18
Each	1X	ZS A2571	£4-81
59249	00 St	nacers	
		ZS A2580	£0-32

Gears - front changers

New Racer Classic parallelogram design, using duralumin and steel.



2800	.00 No	ew Racer	
ach	1X	ZS A3018	£7-58

Supercronos

Parallelogram front changer in Super Earlumin II, with a hinged frame clip.



22500	005	percronos	
Each	1X	ZS A3020	£10-83

Gears - rear mechanisms

New Racer

Exceptional value in rear mechanisms, using the traditional parallelogram principle, with black anodised upper and lower housings. 178 gm.

22300			
Each	1X	ZS A3045	£9-48

Supercronos

Super-smooth rear mechanism in Super Earlumin II, featuring black anodised upper and lower pivot housings. 187 gm.

-	_		
22000	.00 St	percronos	
Each	1X	ZS A3055	£19-52



ZEUS - continued

Gears - control levers

New Racer

Single or double clip-on, in duralumin and steel. With ring adjusters.



21300	00 N	w Racer Double	with clip
Each	1X	ZS A3154	£3-93
21303	.00 N	ew Racer - Single	with clip
War-k	177	70 83161	£2.62

Supercronos

Supercrones
Super Earlumin II alloy double levers
with ring adjusters. Available as
clip-on or braze-on fitting.
60/36 gm.

21000	.00 Su	percronos d	louble clip-on
Each	1X	ZS A3180	£4-33
21001	.00 5	percronos-	double, braze-on
Fach	17	ZS A3185	£3-81

Gear tunnels & stops

21400.00 Double tunnel			
Each	1X	ZS A3170	£0-79
21401	.00 C	Stay stop	
Each	1X	ZS A3175	£0.36

Gear lever rubbers

21800	.00 Ze	us, asst. colours	
Each	1X	ZS A3400	£0-12

Head fittings 26200 00 81-

Set	1X	ZS A4420	£6-67
2620 Set		ran Sport ZS A4400	£9-44
2600 Set		rpercronos (alloy)	£14-84

Hubs-small flange

New Racer

Modern design with most of the attributes of costlier items. Front and rear have one-piece dural bodies in the popular diabolo shape functionally strong and easy to clean, with neat quick-release spindles. Dimensions are standard, 120mm over rear cones, 100mm front. There are no oil seals but the pressed-in dust-caps are thick, and fit closely over the cones: spoke holes are unchamfered. Drilled 28/32/36.



28500	0.00 Ne	ew Racer Q/R	
Pair	1X	ZS A4640	£15-79

Supercronos Super-lightweight small-flange quick-release hubs in Super Earlumin II. The beautifully finished hub shells have the distinctive diabolo shape. Drilled 28, 32, 36. 490 gm. (pair).

28000	0.00 St	percronos Q/R	20,100,000
Pair	1X	ZS A4615	£44-72

Hubs-large flange

Large-flange quick-release hubs with shells in duralumin and top-grade steel axles. Drilled 24/28/32/36. 572 gm.

	4 10 2 2 1 1 1 1 1		
28300	2.00 G	gante Q/R	
Pake		ZS A4650	£45-39

Pista As above, but solid spindle for track and fixed-wheel road use. Drilled 24/28/32/36/40. 546 gm.

28400	0.00 Pi	sta Track	
Pair	IX	ZS A4660	€39-08

Hub spares

1X

Each

	front 1X	ZS A4672	£1-75
38523	.06 H	stlow aide comple	ete - New
Racer	-rear	6 sp.	
Each	1X	ZS A4673	£2-16
38003	00 H	ollow axle comple	ete-
		- front	
Cont	tX	2S A4678	£6-0

ZS A4679

£7:38

front Each	1X	ZS A4670	£5-40
38423	00.50	lid axle complete	-Pista-rea
Each	1X	ZS A4671	£6-27
38502	00 N	w Racer - front C	R skewer
		ZS A4800	£2-58
38521	.06 N	ew Racer - rear 6	SD.
Each	1X	ZS A4801	€2-62
38002	.005	percronos – fron	t Q/R skewe
		ZS A4806	£6-11
38021	065	percronos – rear	6 sp.
		ZS A4807	£6-19

-			Water Street
28450	.00 Pi:	ita 13-19T Alloy	'a only
Each	9.37	25 54700	63-6

Pedals

New Racer/Criterium

Zeus pedals come in road and track, in Criterium and New Racer versions, using a diabolo shaped frame and a quill road or single-sided track plate. The New Racer models are in Duralumins with steel axles, the Criterium in Super Earlumin II with steel axles.

New Racer 420 gm. (road). 368 gm. (track) Criterium 360 gm. (road). 320 gm. (track).



Pair		zs A5610	£23-77
24103	3.00 Cr	iterium track	
Pair	1X	ZS A5615	£23-77
2430	1.00 N	ew Racer road	
Pair	1X	ZS A5630	£13-21
24303	3.00 N	ew Racer track	
Pair		ZS A5635	£13-21

Supercronos
Puturistic semi-platform pedal in
Super Earlumin II. The rear backplate
is standard style, black anodised and held on by four screws, but the front half of the pedal is a platform on to which the special Christope Palette toeclip sildes, held by two screws. 390 grs. 390 gm.

50401.00 Palette toe clips		LOO Pa	50401
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Seat bolt

25500	:00 Ne	w Races Alkey se	at bolt
Each	1X	ZS A6876	£0-63

Seat pillars

New Racer

Traditional-style light alloy micro-adjusting, with two-bolt clamp. Grooved pillar. In Duralumin S. In 25.0, 26.4, 26.8, 27.0 and 27.2mm diameters.



25300.	00 N	ew Racer	Towns.
Each	1X	ZS A7005	£10.95

Supercronos

Stylish light alloy micro-adjusting component, the clamp held by a single bolt. Beautifully finished, the column is grooved. In 25.0, 26.4, 26.8, 27.0, 27.2mm diameters. In super Earlumin II. 235 gm.

25000	.00 Su	percronos	
Each	1X	ZS A7010	



Weight Comparison



Make NADAX 'Favorit'*	Grams 250
ZEUS '2000'	255
ZEUS 'Supercronos'	257
ZEUS 'New Racer'	268
T.A. W709 (Less Races)	270
FAG 'L66'*	280
BADOR 'Competition'*	290
SUN TOUR 'Superbe' SA-110*	280
STRONGLIGHT (Less Races)	294
BULLSEYE*	298
SUN TOUR 'Superbe'	301
TEVANO (Less Races)	307
LIGHTRACE 'SuperLightrace'	330
SUN TOUR 'Mountain Bike' (Triple) SS-150*	389
*Sealed Units	



(Inc. levers and transmissi	ons)
DIA COMPEDC610	730
DIA COMPENGC 450	740
DIA COMPEGC610	835
DIA COMPE DC-700×GC-160	840



(Inc. levers and transmiss	ions)
SUNTOUR	540
'Superbe' 400mm	549
SUNTOUR	2020
'Superbe' 500mm	565
DIACOMPE	41.4
'Aero - Gran Compe'	610
DIA COMPE	5981
QS-500N×151	555
DIA COMPE	3120
Q5-630N×144	565
DIACOMPE	20.0
DC-630N×144	590
DIA COMPE	
DC-500N×144	580
CYPARI 'Course'	630
DIACOMPE	
'Aero Compe G'	630
CYPARI 'Sprite'	634
ZEUS 'New Racer'	650
ZEUS 'Supercronos'	654
SUNTOUR	
'Cyclone' 400mm	678
SUNTOUR	9702
'Cyclone' 500mm	684
DIA COMPE	200
RGC400×204	690

DIA COMPENGC 400	690
DIA COMPE G-500N×152	695
DIA COMPE GX-500N×157	695
DIA COMPE GC-500N×200	755

BRAKE ON BRAKES

	(Inc. levers and transmissio
715	DIA COMPE DC-960×GC-160
890	DIA COMPE DC-980×280 (Mountain Bike)
8	DC-980×280

(Top Tube	Set of 3)	
MILREMO		

MILREMO	4
ZEUS	9
REG 751/25	12
NAME OF TAXABLE PARTY O	



All weights less Bottom Brack	et Set
3 PIN	
T.A. Ref. 203 Single C/Wheel with W1693 Crank Set	515
T.A. Ref. P1753 3 pin Single adaptor sets with W1693 Crank Set	600
5 PIN	
T.A. Ref. 205 Single with W1690 Cranks	498
TEVANO AX5000	505
ZEUS 'Supercronos' with Single Chainwheel	546
ZEUS '2000' with Single C/Ring	557
SUN TOUR 'Superbe' Track	585
T.A. Ref. 1205 'Cyclo Cross' 47T with W1690 Cranks	592



T.A. Ref. 1755 'Pro' Adaptor Set 49T with W1690 Cranks

170mm (42-52T unless stated)	(=)
All weights less Bottom Bracket Set	
3 PIN	
T.A. Ref. 2173 Pro' Adaptor Set with W1693 Cranks	620
T.A. Ref. 2203 'Criterium' with W1693 Cranks	630
5 PIN	
TEVANO AX5000	560
T.A. Ref. 2205 'Criterium' with W1690 Cranks (43-52T)	578

ZEUS 'Supercronos' with Double Chainwheel	606
T.A. Ref. 2175 Pro' Adaptor Set with W1690 Cranks (43-52T)	610
ZEUS '2000' with Double C/Ring	617
ZEUS 'New Racer'	623
T.A. Ref. 2235 'Cyclo tourist' with W1690 Cranks	650
SUN TOUR 'Superbe Pro'	658

(inc. rear amp)	
PHOS 'Phare'	352
PHOS 'Phantom'	360
MILREMO 'Comet'	538

FREEWHEELS 5 SPEED	
14-24 ratio unless s	tutad)
14-24 fado uraesa s	tateu/

(14-24 ratio unless stated)	
ZEUS '2000'*	262
ZEUS 'Criterium'	280
SUN TOUR 'Winner' 13-22	362
SUN TOUR '888'	410
SUN TOUR 'Pro Compe'	421

	-
FREEWHEELS SPEED	
3-24 ratio unless st	ated)

(13-24 ratio unless stated)	
SUN TOUR 'MicroLite'* (13-18)	154
ZEUS 2000*	272
ZEUS 'Criterium'	295
SUN TOUR 'Ultra 6'	429
SUN TOUR 'Perfect'	465
SUN TOUR 'Winner'	470
Action in the Control of the Control	

REEWHEELS SPEED	
2-24 ratio unless st	ated)

(12-24 ratio unless stated	0
SUN TOUR 'MicroLite'* (12-18)	165
SUNTOUR 'Ultra 7'	490
*Allay Cogs	

	-
BARS	(性級)
lerailleur)	100
	- 6

Front Changers (Mechanism only)	
SUN TOUR 'Superbe Pro' (New Model)	- 82
SUN TOUR 'Superbe II'	90
ZEUS 'Supercronos'	90
SUN TOUR 'Superbe Pro' B/O	92
SUN TOUR 'ARX'	93
SUNTOUR Cyclone II	94

ZEUS 'New Racer'	95
SUN TOUR 'Cyclone III'	101
SUN TOUR 'Mountech'	102
SUN TOUR 'NSL'	110
SUNTOUR'AR'	112
SUN TOUR VX	115
SUN TOUR 'LE-Tech'	118
SUNTOUR AG-Tech	128
SUN TOUR 'Compe V'	134
SUNTOUR Spirt	145
SUNTOUR AG	155
Rear Gears (Mechanism only)	Grams
SUN TOUR 'Superbe II'	163
SUN TOUR 'Cyclone II Racing	173
SUNTOUR 'Superbe Pro II'	176
ZEUS 'New Racer'	178
SUNTOUR Cyclone II GT	180
SUNTOUR 'Cyclone Racing'	184
ZEUS 'Supercronos'	187
SUNTOUR VX	200
SUN TOUR 'Superbe Tech-S'	201
SUN TOUR 'ARX'	206
SUN TOUR 'Cyclone III'	210
SUN TOUR 'VXS'	210
SUNTOUR 'VXGT'	210
SUN TOUR 'Volante'	263
SUNTOUR 'Mountech'	277
SUNTOUR AR	280
SUN TOUR 'Superbe Tech-L'	302
SUN TOUR 'AR GT'	303
SUNTOUR 'Superbe Tech'	307
SUNTOUR	
'AG-Tech GTL'	366
SUNTOUR AG*	375
SUNTOUR Honor	400
	_

GEAR LEVERS (Double with clip)



ZEUS 'Supercronos'	60
ZEUS 'New Racer'	65
SUNTOUR Superbe Pro	64
SUN TOUR 'Cyclone'	69
SUN TOUR 'Superbe'	78
SUNTOUR Top-Mount	73
SUNTOUR 'VX'	80
SUNTOUR 'DLW'	83
SUNTOUR PDL-M	125
SUNTOUR Bar-Con (Pair	176
SUN TOUR Power Thumb Shifter for Mountain Bike(Pair)	155

HANDLEBARS (42cm



T.T.T.	'Girnondi' SL	257
TTT	'Tour de France' SL	262



DATA

T.T.T. 'Merckx' SL	270
T.T.T. 'Aerodynamic'	285
MILREMO 'Randonneur'	290
MILREMO Franco Belge'	300
T.T.T. 'Gimondi' Std.	310
CINELLI 'Anatomic'	314
CINELLI Model 65	314
T.T.T. 'Tour de France' Std.	315
CINELLI Model 66 40cm	320
CINELLI Model 67 Track 39cm	320
NITTO 'Aerodynamic' 40cm	320
CINELLI Model 63 40cm	324
CINELLI Model 64 40cm	329
T.T.T. 'Merckx' Std.	330
MILREMO 'Franco Italia'	350
T.T.T. 'Pista'	360
WIN 'M-28' Mountain bike handlebars & stern	935

H'LEBAR STEMS (Length 11cm unless stated)

MILREMO Tourist 5cm	208
MILREMO 'Sport' 9cm	235
ATAX 'ASC Aerodynamic' 105mm	240
CINELLI '1R'	262
MILREMO 'Super Sport'	270
T.T.T. 'Record Road' 10cm	275
T.T.T. 'Strada 78'	279
T.T.T. 'AR 84'	280
CINELLI 'ZA'	288
BADOR 'Competition'	290
CINELLI '1A'	298
WIN 'Medal 50' 5cm	300
T.T.T. 'Record Pista No. 2'	305
WIN 'Medallion V' 10cm	315
SUN TOUR 'Superbe'	322
SUN TOUR XC-V Mountain bike	330
WIN 'Crest' KPY 3cm	340
NITTO 'Crystemblue' 10cm	350
WIN 'Medal 80' 8cm	350

HEADSETS

~	
TANGE 'Levin' Alloy	90
SUN TOUR 'Superbe Pro' Alloy	94
T.A. Ref. 3900	110
ZEUS 'Supercronos'	138
MILREMO 'Classic de Luxe'*	140
SUN TOUR 'Superbe' Steel	145
MILREMO 'Special'	147
TANGE 'New Levin'	155
LIGHTRACE 'Super Lightrace'	175
ZEUS 'Gran Sport'	180

ZEUS 'New Racer'	180
*(Less Ball Races)	

HUBS (Smell Flange, Quick Release)

400
490
519
520
536
548
550
572
595
622

HUBS (Large Flange, Quick Release)



PUMPS (485mm unless stated)

REG 8C, 460mm	128
REG Model 9 500mm	142
MILREMO 'Cross'	145
MILREMO 'Gran Carrera'	150
PRIMUS 'SL-C'	155
PRIMUS 'Aerodynamic'	222

PEDALS (Alloy)

245
278
290
300
300
313
330
340
340
340
352

SUN TOUR 'Superbe'	353
M.K.S. 'Aero'	355
MILREMO 'Avante' Road	360
M.K.S. 'Sylvan' Ref. 0000	360
SUN TOUR 'VX'	360
ZEUS 'Criterium' Road	360
M.K.S. 'Esquartz Arnateur 102'	365
ZEUS 'New Racer' Track	368
M.K.S. 'Quill' Ref. 3002	380
ZEUS 'Supercronos'	390
SUN TOUR 'Cyclone'	390
MILREMO 'Avenir'	396
M.K.S. 'GR8'	400
CINELLI 'M71'	400
MILREMO 'Apollo'	415
MILREMO 'Aurora'	415
ZEUS 'New Racer' Road	420
M.K.S. '505'	560
M.K.S. '707'	560

SADDLES (Less Clip)

CINELLI 'L Design' Track	220
SAN MARCO 'Gi-Lux' 312/7	305
CONPY 'Concorde'	310
CINELLI 'Grantour'	320
IDEALE Ref. 2003A 'De Luxe'*	320
JAGUAR '81L-APDX Comfort W	320
MILREMO 'Star Rider'	320
ARIUS 'Imperator'	328
CINELLI 'L Design' Road	330
CINELLI 'Campione del Mondo' Leather	340
CINELLI 'Campione del Mondo' Buffalo	340
MILREMO 'Professional' Buffalo	345
MILREMO 'Professional' Leather	350
ARIUS 'XR-1'	355
MILREMO 'Gran Carrera'	350
SAN MARCO 'Concor' 267/9	350
CINELLI 'Campione del Mondo' Chamois	360
SAN MARCO 'Profil'	365
SAN MARCO 'Corsaire' 313/5	372
JAGUAR '77-MADX Comfort'	390
JAGUAR '77-CPDX-K'	400
CINELLI 'Volare'	420
CINELLI 'Tour de France' Leather	429
SAN MARCO 'Corsaire' 313/2	438
CINELLI Tour de France Buffalo	450

CINELLI 'Tour de France' Chamois	452
CINELLI 'Type C' Road	488
*TITANIUM FRAME	

SEAT PINS (27-2mm unless stated)



STRONG 'Standard-Alloy'	90
T.T.T. 'Criterium'	180
SUN TOUR Superbe SP2000	203
ATAX 'Poly-pro'	210
ZEUS 'Supercronos'	235
STRONG 'Micro'-Adjustable	260
ATAX 'Professional'	275
ZEUS 'New Racer'	285
MILREMO 'Luxe'	286
MILREMO 'Gran Sport' Plain and Fluted	300

RIMS H.P. (Single)



MILREMO 'Elite'	408
MAVIC 'E2'	430
MAVIC 'G40'	430
MILREMO 'Super Club'	450
SUPER CHAMPION 'Model 58'	495
MAVIC 'Module 3D'	530
FIAMME	540
MAVIC 'Module 4'	550
SUPER CHAMPION 'Mixte'	583
ARAYA Mountain bike	610

RIMS SPRINT



	/_
FIAMME 'Ergal'	279
MAVIC 'GEL-280'	280
ARAYA 'ADX-1'	300
MAVIC 'Argent 10'	310
ARAYA 'ADX-2'	330
MILREMO 'Record Route'	350
FIAMME 'Hard Silver'	357
MILREMO 'Mercury Durex'	370
FIAMME 'Bussola' Road	370
MAVIC 'GP4'	395
MAVIC 'Monthlery Pro'	395
MAVIC 'Special Service'	395
AMBROSIO 'Montreal' Pol, Black, Durex	400
AMBROSIO 'Metamorphosis'	400
MILREMO 'Montreal' Poi, Gold, Black	400
MILREMO 'Giro'	410
MAVIC 'Monthlery Route'	420



DATA

Availability

HANDLEBAR STEM AVAILABILITY



Make and Model				Forv	vard Len	oths Av	allable	(See	Conve	rsion T	able fi	orinch	es cor	opariso	n)									
Manual Manual Control	Cms	3	4	5	vard Len S.5 8	6.5	7	7.5	8	8.5	9	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5
ATAX																								
'ASC Aerodynamic'								Х			Х			Х										
BADOR																	т							
'Competition'											Х		X		Х		X		Х					
CINELLI																								
1A							Х		Х	X	X	X	X	X	Х	Х	X	X	X	X	X	X		
1R									-/-			X	X	x	Х	Х	Х	X	Х	Х	X	Х		
2A													Х		Х		X		Х					
'Domino'											Х		Х		Х		X							
MILREMO																								
Tourist				Х																				
'Sport'							Х				Х									7				
'Super Sport'								Х			X		Х											
NITTO															Т									
'Crystemblue'							X		Х		X		Х											
SUNTOUR																								
'Superbe'									77	X			X		Х		Х							
T.T.T.																								
'Record Road'					Х	X	Х	X	X	X	X	X	X	X	Х	X	X	X	X	Х	Х			
Strada 78									Х	Х	Х	Х	Х	Х	Х	Х	Х	X	Х	X	X			
'Record Pista' No. 2															X		X		Х					
AR-84											X		X		Х		X		Х		X			
WIN																								
Crest KPY		X															Ŧ							
'Medal 50'				Х										L.										
'Medal 80'									X															
Medallion V										Х			Х											

HANDLEBAR DIMENSIONS AND WEIGHTS



Make	Model	Use	Material	Approx. Weight in gms	A Forward Reach mm.	B Width mm.	Drop mm.
ATAX	'Franco America'	Road	Alloy	340	98	420	160
	"Tour de France"	Road	Alloy	340	86	400	143
CINELLI	'Campione del Mondo' Ref. 63	Road	Alloy	324	76	380-400	147
	'Giro d Italia' Ref. 64	Road	Alloy	329	78	380-400-420	142
	'Criterium' Ref. 65	Road	Alloy	314	37	380-400-420	147
	'Campione del Mondo' Ref. 66	Road	Alloy	320	90	380-400-420	156
	'Anatomic'	Road	Alloy	314	77	400	147
	'Pista' Ref. 67	Track	Alloy	320	83	390	163
MILREMO	'Randonneur'	Road	ABoy	290	86	380-420	124
	'Franco Beige'	Road	Alloy	300	90	400-420	140
	'Franco Italia'	Road	Alloy	350	78	400-420	148
NITTO	'Aerodynamic'	Road	Alloy	335	88	390	150
T.T.T. (Std)	Tour de France'	Road	Alloy	315	82	400-420	138
	'Gimondi'	Road	Alloy	310	85	400-420	143
	'Merckx'	Road	Alloy	330	92	400-420	146
	Pista Pista	Track	Alloy	360	75	400-420	160
	'Aerodynamic'	Road	Alloy	360	88	420-430-440	145
T.T.T. (SL)	'Tour de France'	Road	Alloy	262	82	400-420	138
	'Girnondi'	Road	Alloy	257	85	400-420	143
	'Mercix'	Road	Alloy	270	92	400-420	146



DATA

AVAILABILITY—continued

CRANK LENGTHS AND CHAINWHEEL SIZES



	Crank to Chainwheel Attachment					Cran (See Conve		Available Chainwho Size							
Make and Model	3 Pin	5 Pin	150	155	160	162.5	165	167.5	170	172.5	175	177.5	180	Min.	Max.
SUN TOUR:															
'Superbe' Pro Road		Х					X	X	Х	Х	Х			42	54
Superbe Track		х		111-1			Х	X	X	X	Х			48	54
T.A.															
Cranks															
1693	X		Х	Х	X	X	X	X	X	Х	Х	Х	X	36	68
1690		Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	Х	26	68
Chainwheels															
'Criterium'	X	X			-25									43	68
Professional"	Х	Х												43	68
'Cyclo Tourist'		Х												26	68
TEVANO															
'AX 5000' *		Х					Х		X					42	56
ZEUS															
'New Racer', 'Supercronos'		X							×					36	56
2000		X	X				X	Х	X	Х	Х	Х		36	56

^{*} Other Crank lengths to special order.

MULTIPLE FREEWHEEL SPROCKET AVAILABILITY TABLE



Make	Model	Speeds	1st	2nd	3rd	4th	5th	6th	7th
SUNTOUR									
	'888' PR-5000	5	14	- 18	10	6-28, 30, 32, 34,	38		
	'Pro Compe' PC-5000	5	14	- 18	10	6-28, 30, 32, 34			
	'Perfect' PS-6000	6	13	. 14	4-18	16-28,30, 32, 3	34		
	'Ultra 6' NW-6500	6	13-14	14	- 19	16-21	17-26, 28,	30, 32	
	'Ultra 7' NW-7000	7	12-13	13-15	14-19	15 -	21	17-26, 2	8, 30, 32
	'MicroLite 6' LF-6000	- 6	13-14	14	-17	16-19	17-2	4	-21
	'MicroLite 7 LF-7000	7	12-13	13-14	14-17	15-	19	17	24
ZEUS									
	'Criterium'	5	14-18		15, 16, 1 21, 22, 2	7, 18, 19, 20, 23, 24, 25, 26	1		
	'Criterium'	6	14×15	. 13 × 15 . 14 × 16 . 16 × 18		15, 16, 17, 21, 22, 23,	18, 19, 20, 24, 25, 26		
	2000	5	14-18	21.	5, 16, 16E, 1 22, 23, 24, 2	7, 17E, 18, 19, 2 25, 26, 27, 28, 2	20, 9, 30		
	2000	6	14 × 15	13 × 15 14 × 16 16 × 18		15, 16, 16E, 21, 22, 23, 24, 2	17, 17E, 18, 19 5, 26, 27, 28, 2	, 20, 29, 30	

TABLE OF RECOMMENDATIONS FOR SPRINT RIMS



Make and Model	Weight	Drilling	Drilling Width		rack Eve	ents		Time	Trials					Re	oad Rac	ing
	Single Gms	Available	M/ms	Pur- suit	Sprint	Dist- ance		50-100 miles		24 hours	Club events	Train- ing	Cyclo cross		Cri- terium	Road Race
AMBROSIO	230011			7		MIL						-				
Montreal Pol. Blk	400	32-36	20.5			HE			X	X	X	X			X	X
Montreal Durex	400	32-36	20.5						Х	Х			X		Х	Х
ARAYA												171				
ADX-1	300	28-32-36	18-7	X		X	X	Х	X	X						-
ADX-2	330	28-32-36	21.0	-	X	Х	X	X	X	X			X	X	X	X



AVAILABILITY-con	tinued														
FIAMME															
"Bussola" Road	370	28-32-36-40	21-0				X	X	X					X	X
'Ergal' Road	279	28-36	21:0	Х		Х	X						Х		
'Hard Silver'	357	28-36	22.0	Х	Х	Х	Х	X					Х	Х	
MILREMO	4,513														-07
'Giro'	410	32-36	21.5					X	Х	Х	Х	Х		Х	X
'Record Route'	350	28-32-36-40	21.5			X	X	X	Х			100	X	X	
"Montreal" Pol.	400	32-36	21-5			X	Х	Х	Х	Х	Х		Х	Х	Х
MAVIC															7700
"Monthlery Route"	420	36	21.5					X	X	X	X	X		X	X
Monthlery Pro	395	32-36	20-0					X	X	X	Х			Х	X
Argent 10	310	28-32-36	20.0			X	X	X					Х	X	-
'CX 18'	300	28-32-36	18-0	X	Х	X	Х								
'GEL-280'	280	28-32-36	20:0	Х	X	X	Х						Х		
'GP4'	395	28-32-36	20.0			Х	Х	Х	Х			Х	Х	Х	X
'Special Service'	395	36	20.0			X	X	X	Х			X	Х	X	X

Conversions

British and Metric Equivalents . . .

Cycle Accessory Dimensions . . .

PUMPS



Diameter							- 012							
Inches	3/4	76	1556	1										
Mms.	19-0	22.2	23·8	25-4										
Length														
Inches	9	10	11	12	13	14	15	16	17	18	19	20	-	
Mms.	228	254	279	305	330	355	381	406	432	457	482	508		

CRANK LENGTHS JUVENILE



Inches	335/64	315/16	421/64	423/32	51/6	59/14	533/64	545/64	529/32
Mms.	90.	100	110	120	130	135	140	145	150

CRANK LENGTHS ADULT



CH				

BALL BEARINGS



61%4 625,44 61/2 61%12 611/10 651/44 657/44 663/44 73/52 160 162:5 165 167:5 170 172:5 175 177:5 180

FRAME SIZES (Measured-from centre of bracket axie to top of seat lug)



Inches	20	20%is	2013/16	213/16	21%	22	224h	2211/16	231/16	23%	24	24%	241/4	
Cms.	51	52	53	54	55	56	57	58	59	60	61	62	63	
Inches	18	19	20	21	22	23	24	25	26					
Cms.	45.7	48-2	50-8	53-3	55-8	58-4	60.9	63-5	66-0					

25.4

31-7

Mms.



FRAME TUBING (Outside diamet	ers) (\sum \dag{})
	Fork

Down:

28-6

\$1/A

25.4

nches	1/6	9/10	3/16	1/4
Mms	3-17	3.96	4-76	6-35



DATE

	S-continued

HANDLEBAR STEM (Forward length from centre of clip to centre of expander bolt hole) 38964 315/16 41/6 421/04 423/32 53364 261/64 313/32 3% 137/64 2 225/64 219/92 23/4 3560 Inches 13 14 10 10-5 11 12 Cms. 4 6.5 7.5 8.5 9 9.5

EAT			

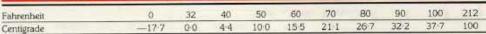
SERI FIELDER D	LITTINED & DAY	~									
BRITISH Ref. No.				3			4		5		
TUBING GAUGE				20			21		22		
Mms.	25	25-8	- 26	26.2	26-4	26:6	26-8	27	27-2	27-4	
Inches (approx.)	53/64	11/64	11/92	11/32	13/64	13/64	11/10	11/10	15/64	1%4	

SPOKE GAUGES												HU
BRITISH SWG	7	8	9	10	11	12	13	14	15	16	17	
EDENCH ID	20	10	18	17	16	15	14	13	12	11	10	

SPOKE	LENG	THS (M	leasured	from ins	de bend	of the h	ead to ti	ne end of	the spo	Rey					(50
Inches	636	611/16	67/6	11%	111/2	11%ie	115%	1111/16	11%	1113/16	11%	11 ¹⁵ /10	12	121/16	121/8
A. C. C.								295-8						306-4	308

Tyre Sizes (Wired-On) 26 28 18 20 22 23 24 Inches 700 350 450 500 550 575 600 650 Mms. 300 400 21/4 13/4 15% Inches 13/4 13h 11/2 32 35A 42C 56 Mms. 136×136 15/8×11/2 1½×1% 1½×1¾ 1½×1¾ 11/2×2 1%e×2 11/2×11/6 156×11/4 11/5×17/6 Inches 45B 45C 28B 32C 35B 35C 38C 42B Mms. Equivalents can be checked as follows: $26 \times 1\% = 650 \times 32$ or $26 \times 1\% \times 2 = 650 \times 50B$

Temperature Conversion Scale



Boiling point of water 212°F, or 100°C. Freezing point of water 32°F, or 0°C.

Tubu	lar Ty	re W	eigh	ts												0)
Ozs	4	454	4%	43/4	5	514	51/5	53/4	6	61/4	61/2	6%	7	71/4	71/2	7%
Grams	113	121	128	135	142	149	156	163	170	177	184	191	198	206	213	220
Ozs	8	81/4	81/2	8%	9	91/4	91/2	93/4	10	101/2	11	111/2	12	121/2	13	14
Grams	227	234	241	249	255	262	269	276	283	297	311	326	340	354	368	396
Ozs.	15	16	17	18	19	20	21	22								
Grams	426	454	482	510	538	566	594	622								

Distance Table	:s												(-
2 Equivalent in Miles	0.62	1.24	1-86	2-48	3-11	3.73	4-35	4.97	5-59	6-2	12-4	18-6	24-8	31
1 Kliometres OR Miles	1	2	3	4	5	6	7	8	9	10	20	30	40	50
3 Equivalent in Kilometres	1.61	3-22	4.83	6.44	8.05	9:66	11-27	12-87	14:48	16-1	32-2	48-3	64-4	80.5
2 Equivalent in Miles	37	43	50	56	62									
1 Kilometres OR Miles	60	70	80	90	100									
3 Equivalent in Kilometres	96-6	112-7	128-7	144-8	161									



CONVERSIONS—continued

Speed Tables 2 Equivalent in Miles per hour 6 9 121/2 16 19 22 25 28 31 37 43 50 56 62 1 Kilometres OR Miles per hour 10 15 30 35 60 20 25 40 45 50 70 80 90 100 3 Equivalent in 32 48 Kilometres per Hour 16 24 40 56 64 72 80 96 113 129 161 145

For Speed and Distance Tables, read line 1 first and obtain the appropriate equivalent in miles or kilometres from line 2 or 3 Example: 10 in Miles = 16 in Kilometres 10 in Kilometres = 6 in Miles

Gradient Equivalents



Grade	1 in 5	1 in 6	1 in 7	1 in 8	1 in 9	1 in 10	1 in 11
Feet ascent per mile	1056	880	754	635	586	528	480
Percentage	20	16-6	14/3	12-5	11-1	10	9-1

Weights and Measures Equivalent in Metres 0.3 0.6 0.9 1.2 1.5 1.8 2.1 2.4 2.7 3.0 3.3 3.6 3.9 4.2 Feet or 5 6 7 B 9 10 11 12 13 14 2 3 4 Metres Equivalent in Feet 26-2 36-0 39-3 42.6 45.9 3.2 6.5 9.8 13/1 16-4 19.6 22.9 29-5 32-8 Equivalent in Kilos 0.45 0.91 1.36 1.81 2.27 2.72 3.63 4.08 4-54 4.99 5.45 5-90 6-35 Pounds 8 9 2 4 5 6 10 11 12 13 14 or Kilos Equivalent in Pounds 2.20 4-41 6.61 8.82 11:02 13:23 15:43 17:64 19.84 22:05 24:25 26-46 28-66 30.87 Equivalent in Litres 4:54 9.09 13-63 18-18 22.73 27:27 31.82 36-36 40.9 45.46 49.6 54-54 59.09 63-64 Gallons 5 9 10 11 13 14 or Litres 2 3 4 6 8 12 Equivalent in Gallons 3:08 0.22 0.44 0.66 0.88 1-1 1:32 1/54 1-76 1.98 2:20 2:42 2.64 2-86 1/16 1/4 3/16 1/4 946 3/8 % 1/2 9/16 54 11/16 3/4 7/8 inches 19-05 15.87 17:46 22:22 25.4 1.58 6.35 7.93 9.52 12-7 14 28

11:11

Useful Conversion Factors

3-17

4.76

Linear

Mms



Inches	×	25.400	-	Millimetres	×	0.039	-	Inches
Feet	×	0.305	-	Metres	×	3.281	=	Feet
Miles	×	1.609	-	Kilometres	×	0.621	=	Miles

Weight



28,350 Grammes × 0.350 Ounces Ounces ×× 0.454 Kilogrammes 2.205 Pounds

Pressure



Pounds-force Pounds-force 0.068 14.696 persq. inch Atmospheres × per sq. inch

Velocity



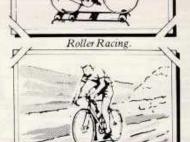
Miles per Kilometres Miles per 1.609 0.621 hour per hour hour



Bicycle Polo.



Cyclo Cross.







Cyclo Photography.



Speedway.



Club Run.



Foreign Touring.



Tandem Riding



Cycle Ball.



Hill Climb.



Time Trialling.





Road Racing.





Cycle Touring.



Road Records.



Trike Racing.

CHING EVERYTHING CYCLING UILAR '

Any newcomer to the world of tubular tyres could be forgiven for feeling bewildered by the seemingly endless variety of makes, types, weights and tread patterns, but fortunately the guidelines are fairly well defined. The main one goes straight down the middle and on one side are the types which are largely made by hand with the tread applied 'cold', and on the other are the machine-made vulcanised kind. Generally speaking those in the first category are lighter in weight with a fine quality cotton or silk fabric and pure rubber inner-tubes that can be inflated to high pressures yet still be flexible and fast. They are the thoroughbreds, not cheap to breed or to buy yet a delight to ride and very often longer-lasting than their workaday counterparts. They should be treated like thoroughbreds, sheltered and relaxed when resting and steered clear of oil, potholes and — need it be said — sharp objects when in use.

In earlier times, most tubulars were hand-made, but improvements in materials and processes have made possible the production of high-grade tubulars by cheaper manufacturing methods, and having said that guidelines are well defined, it has also to be said that in good quality products the distinction is becoming somewhat blurred. Perhaps the introduction of nylon fabric has been responsible for at least enhanced reliability although many devotees still swear by long-staple Egyptian cotton — when obtainable Nylon is more resistant to damp and abrasion and is more tolerant of under-inflation. It also calls for slightly lower vulcanising temperatures so that rubber treads are less well-cooked, although this means little in the case of

synthetic rubber.

What does have a big effect on performances is the quality of the inner-tube. In the very best types, the pure natural rubber is so thin as to be almost transparent and this gives maximum resilience with the lightest weight. At the other end of the scale, a heavy butyl tube is fitted when utility rather than speed is the objective and nowadays all the Iower-priced tubulars have synthetic innards. Tread pattern is largely a matter of personal preference, for except on the heavier treads and in specialised uses such as cyclo-cross, it has little effect on performance. A fine rib or file pattern is the most favoured for speed, while rib and herring-bone combined is adequate for rougher use. Inflation pressure is of paramount importance and this should be relative to the weight of the rider and in accordance with the maker's recommendations. The tendency in recent years has

available and should be considered for long-distance riding or the Paris Roubaix! To anyone who has never experienced it, the liveliness

been towards small-section tyres but fatter ones are readily

conferred by sprint rims and tubular tyres will be a revelation. They make a bigger contribution to the mechanical efficiency of the modern bicycle than any other fitment.















FONTANA

A new range of three' carefully-chosen models to cover usage from training to critical racing. The pockets are of high-quality coiton, with treads according to the purpose.

FONTANA

A bargain tubular for training which, at 300 grams, is still light enough to race on. The tread has been chosen with this in mind, a narrow centre ribbed section flanked on either side with herringbone, for a fast ride with grip on either flank. Butyl tube. 300 gm.

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2A FTA T2630

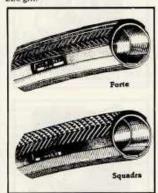
Squadra
A 260-gram racing tyre for criteriums, road racing and all-round time trials. The centre third of tread is of fine file pattern, with chevron pattern each side. Once again, it has a reliable butyl tube, and the end result is a great tyre at a not-so-great price. 260 gm.

100		.09			
Sq	152	м	m	١.	

Each 2A FTA T2640 £7-81

Record

A lightweight (220-gram) tubular for those really special events. Core of the tubular is a responsive tube in natural latex. A light pocket is wrapped around it, and topped off with a narrow tread band with a fine honeycomb pattern for grip without unnecessary drag, 220 gm.



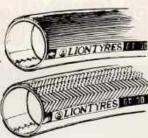
Record	J	
Each	ZA.	FTA T2650

LION

Lion tyres are made in the most modern tubular tyre factory in the world. All models are manufactured under perfect working conditions with pure natural rubber and with a superior quality cotton. These modern manufacturing methods allow great cost savings, which are passed on to the consumer.

GT30

The best bargain in tubulars. A training tyre light enough to be used for racing on a budget. In mixed or ribbed tread, with a butyl tube.



GT 30 Each	LN T2500	€6-36
GT30 Each	d LN T2510	£6-36

£6-62

A fully-rubbered tubular with a mixed tread, ideal for training and winter riding. Butyl tube.



T36 M	bed	ALTERNATION OF THE PARTY OF THE	
Each	2A	LN T2515	£6-76

GTR 28

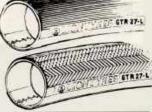
Lightweight training or general racing tyre. Mixed tread with butyl tube. 280 gm.



GTR 2	8 Mixe	ed	
Each	2A	LN T2520	£7-10
GTR 2	8 Ribb	ed	
Each	ZA	LN T2525	£7-10

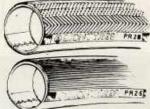
£11-79

An all-round racing tyre, mixed or ribbed tread, with the added advantage of a puncture-resistant breaker strip under the tread. Butyl tube 270 gm



GTR 2	7L Mix	ed	are to
Each	2A	LN T2530	£7-10
GTR 2	7L Rib	bed	
Each	2A	LN T2535	£7·10

Slightly lighter racing tyre, with mixed tread for road racing, or ribbed tread if preferred for time trialling. With the extra responsiveness of a latex tube.



PR 26 Each	Mixed 2A	LN T2540	£7-10
PR 26	Ribbe	d	
Each	2A	LN T2545	£7-10

PR 24

Latex-tube light racing tubular, giving a very smooth, fast ride. Mixed or ribbed tread. 240 gm.



()		PR 24
	100	
PR 24 Mixed Each 2A	LN T2550	£8-24

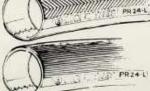
Each PR 24L

PR 24 Ribbed

2A

As above, but with added puncture-resistant breaker strip underneath the tread. 240 gm.

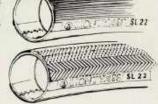
LN T2555



PR 241	Mixe	d	
Each	2A	LN T2560	£8-62
PR 24	Ribb	ed	
Each	2A	LN T2565	£8-62

SL 22

Super-light road, TT or even track tyre, with either fine mixed or ribbed tread. Latex tube. 220 gm.



100000000000000000000000000000000000000	100000	LN T2570	£9-40
SL 221	Ribbed	1	
Each	2A	LN T2575	£9-40
	Each	SL 22 Ribbed	Each 2A LN T2570 SL 22 Ribbed

SL 21 A fine matt tread graces this ultra-light tubular, suitable for track or top road event. Latex tube.



SL 21 Matt Each 2A

2A

£9-67

MILREMO



Sportivo
The finest value in "tubs" made today. Tough black tread with fine centre ribs and file pattern non-slip side walls. The perfect and ever-popular all-purpose tubular. 310 dm. 310 gm



	ortiv	
Sec. 2		

MO T3000

€7-54

Cadetti

£8-24

Similar in design to Sportivo but weighs less. The ideal tubular for the beginner or for general purpose 260 gm.



Cadem Each 2A

Mondiale Unbeatable for value. Not to be compared with similarly priced fully vulcanised tyres. Fine ribbed tread.

MO T3005





Mondiale Each 2A

MO T3015

£7-03

£8-55

Specialissimo

Extra fast road tyre with multi-ribbed black tread 300 gm.



Specialissimo Each 2A MOT3025

Nuovo Leggerissimo

Tough black tread with fine centre ribs and file pattern, non-stip side walls. Good cotton road racing tyre. 260 gm.



Nuovo Leggens MO T3030 Each

£9.72



£13-23

£14-64

£23-20

£23.93

Normal Cross

A special sturdy tub for the cyclo-cross enthusiast, rough file sides, raised V-cross section. 370 gm



MO T3035 £10-59 Each 2A

Nylon Butyl
The resistance of nylon gives a new dimension to lightweight racing tubulars. The fine-woven carcass will stay lively and responsive, and will not deteriorate because of exposure to adverse weather. With a butyl tube, cotton base tape and a mixed tread, this is a superb choice for fast road work.



Nyion Butyl

MO T3041

£9-89

Nylon Latex

As the Nylon Butyl, but with a natural latex rubber tube, saving weight and adding to puncture resistance. One of the lightest road tyres available



Latex 2A	MO T3046	£12-54
 costs.		

Juniors			
501 - 20' Each 2A	MO T3201	£7-19	
501 - 22" Each 2A	MO T3202	£7-45	
501 - 24" Each 2A	MO T3203	£7-64	
501 - 26" Each 2A	MO T3204	£8-03	



Sup'air Latex 240

An all-round racing tubular with the advantage of a latex tube - the same one supplied for top Italian tubulars. It has a 22mm section and fine multi-herringbone tread. Because of the latex tube, it "rides" much faster than its weight.



Sup'air Latex 240 SLXT 2A £16-44

Sup'air Latex 220

An incredible racing tubular, once again with a responsive latex inner tube. The tread has a fine mixed pattern, a centre file with chevron surrounds. Section is 22mm. Ideal for fast time trials, criteriums or special road races where you want the best from a tyre.



Sup'air Latex 220

SLX T

2A £25-21

VITTORIA



Mondiale

A general purpose tyre, semi-vulcanised with a rubberised base tape. The mixed tread and slim section makes it lively enough for road races and time trials at all distances.



200 Mondiale

2A **VAT4000** £7.03

As the Mondiale, but slightly heavier Good for training and club events. 330 gm.



201 Leone

€7-69 2A VA T4011 Each

Trofeo 250

A similar tread to the Mondiale, but a lighter pocket. This is a great all-round tyre for training and racing which performs well on rough or wet surfaces. Also available in a fine ribbed tread. 260 gm.

205Tr	ofeo 2	50 ribbed	
Each	2A	VA T4015	£8-73
206Tr	ofeo 2	50 mixed	Jackery V. H.
Each	2A	VA T4020	£8-73

Special Pro A high quality racing tyre equally suitable for fast criteriums, special road races or time trials, its 21.5mm section carcass is of high resistant special cotton yarn, enclosing a tube of butylised latex, which combines the advantages of both materials The tread is a cunning mixture of rib, file and herringbone, giving excellent grip and low rolling resistance. 220 gm.



£14-06

207 X Special Pro

VAT4022 2A

Giro del Mondo

Made with the same polyester-type fibre as the Mastercross, this tyre lives up to its name. It will wear and wear. Mixed tread.



2A VA T4038 Each

Mastercross

Made for the toughest conditions, cyclo-cross or even rough riding, the synthetic fibre carcass is topped with a heavily studded tread. Rig-tested to 40,000 kilometres



803 Mastercross Each ZA VA T4087

Light tubular, Resilient and hard wearing for use in all types of racing with ribbed tread. Normally to be used on the front wheel. Inflate at 7-8Atm (100-120 psi). Silk (Seta) 230 gm Cotton 240 gm.



02 Vittoria Corsa CM VA 17020 €20-02 08 Vittoria Corsa Seta CM Each 2A VA 17050

Corsa CX

Light tubular again. A very resilient and robust model for use in all types of competition. With its special mixed tread it offers a low rolling resistance and yet perfect adherence even on wet roads. Inflate at 7-8 Atm (100-120 psi). Cotton 240 gm. Silk (Seta) 230 gm.



03 Vittoria Corsa CX 2A VA T7025 £21-15 Each 09 Vittoria Corsa Seta CX VA T7055

Corsa CG

Each ZA.

Light tubular. A lively and strong tubular which is recommended for races where maximum wear and grip are required. Mixed tread. Inflate at 7-8 Atm (100-120 psi). Cotton 240 gm. Silk (Seta) 230 gm.



04 Vittoria Corsa CG Each 2A VA T7030

10 Vittoria Corsa Seta CG VA T7060

Very light tubular. A special elasticity combined with a smooth tread makes this tubular a must for the race against this tubular a must for the race against the clock. Slightly larger section which gives a smoother ride. Inflate at 8-9 Atm (120-135 psi). Cotton 190 gm. Silk (Seta) 180 gm.

£20-30

£23-48

€26-66



05 Vittoria Cronometro CS 2A Each

VA T7035 £22-23

11 Vittoria Cronometro Seta CS Each 2A VA T7065

Pista CS

Extremely light tubular, very resilient.
May be used on all types of hard track.
Its special glazed tread gives perfect
adherence with the low rolling resistance required in sprinting. Inflate at 11-12 Atm (160-175 psi). Cotton 150 gm. Silk (Seta) 140 gm.



06 Vittoria Pista CS

VA 17040 £21-55

12 Vittoria Pista Seta CS 2A VA 17070 Each

£26-09

Special CG
The synthetic yarns used for this casing have a greatly increased tensile stress over cotton, making this tubular superb for racing over bumpy or uneven surfaces. An ideal "insurance" for the rider who is unsure of the roads that lie ahead Mixed tread.



70 Special CG

VA 17075 2A

£21-55

Special CX
Using a special waterproof synthetic yam for the casing, this model has a tread of fine mixed surface, using a special rubber of "soft" mix, making it right for racing in the rain.



71 Special CX

VA T7080 2A

€21-89



VITTORIA - continued

Based on the Cronometro time trial tyre, this superlight model has a "glazed" tread, slightly roughened but designed for minimal rolling resistance. Just right for the extra-special event. Cotton 180 gm.



72 Cronometro CT Each 2A VA T7085

Cronometro CX
As the Cronometro CS, but in 19mm section to suit the vogue for ultra-narrow rims. Cotton 190 gm.

73 Cronometro CX Each 2A **VA 17090**

WOLBER



Strada 80

Ideal for training and club events. Mixed tread. Butylinner tube, 25mm 310 gm

Strada 80

Each 2A WA T5003 £7-82

£8-35

€22-80

£24-10

Junior Butyl

Strong, fast tubular, ideal for training, and popular with young riders. Mixed tread. Butyl inner tube, 25mm section.



Junior Butyl Each ZA

WR T5005 Route Renforce

An extra-strong standard tubular for winter conditions. File tread. Butyl inner tube, 26mm section.



WR T5020 2A

Corsa 80

Good all-round tyre for all types of racing on the road. Mixed tread. Butyl inner tube. 24mm section. 265 gm.

Corsa 80

WR T5025 Each 2A

€8-87

International

Light casing of Egyptian cotton, 24 strands per cm. Excellent performance for all applications: Touring, training, racing, Mixed tread. Butyl inner tube, 24mm section. 280 gm.



International 2A

WR T5030

£9-47

£9-27

€9-16

Cross PD

Large diamond tread, 26mm section. ButvI tube. 360 gm.

Cross P.D

WR 15040 Each 2A

Cross Super

Special anti-skid "knobbly" tread for good adhesion in muddy conditions. Butyl inner tube, 25-5mm section.



Cross Super Each 2A

WR T5045

Special Course

Light casing of Egyptian cotton, 24 strands per cm. Tough, light, high-performance tubular, suitable for all applications. Mixed tread Butyl inner tube. 24mm section. 280 gm.



Special Course

2A WR T5050 Each

£10-55

Leader 80

Lightweight all-purpose tyre with mixed tread and Egyptian cotton casing (24 threads per cm). Butyl innertube, 24mm section. 260 gm



Leader 80 Each

2A

WR T5055

£9-77

Cross 28

Studded tread for greasy surfaces, for cyclo-cross and rough riding. Butyl inner tube. 28mm section. 400 gm

Cross 28 Each 2A

WR T5057

£10-31

Neo-Pro

Mixing some of the techniques of vulcanizing with the hand-made processes gives an item with performance and lightness of better tubulars at a reasonable price. Ideal for racing, training and touring. Mixed tread. Butyl inner tube, 22mm section.



Neo Pro 2A

WR T5060

£10-08

Pro 84

Similar to the Neo-Pro but with a lighter casing. Butyl inner tube, 22mm section. 230 gm

Pro-84

Each

WR T5061

£12-57

Invulnerable 84

The latest in puncture-resistance, thanks to a flexible stainless steel strip under the tread band, which gives a performance in bad conditions far better than the weight suggests. Mixed tread, 22mm section. 290 gm.

Invulnerable 84

ZA WR 15066

Criterium Narrow, lively lightweight ribbed tread, 22mm section. 240 gm.

Criterium

Each 28

WR T5063

£17-55

£12-45

Performance
These tubulars have proven their worth in the Tour de France and other demanding events. File tread with centre fib. Latex inner tube, casing of fine Egyptian cotton (37 threads per cm). 23-5mm section.

215 gm.

Each

WR T5065 2A

Competition

Based on the Performance, this model has been designed for worse



Competition

WR T5070 2A Each

£20-11

£20-62

A high-quality tubular for track events Casing in Egyptian cotton, 37 threads per cm. Matt tread, Latex inner tube, 23 5mm section.



2A WR 15075 Each

£20-91

Record 18 Piste

Narrow-section (18mm) tubular for track events, especially sprints and record attempts. For use with narrow sprint rims.

Record 18 Piste Each 2A WR T5076

£24-11

Record 18 Route

As above, but with a mixed road tread. For the most crucial of road events 180 gm.

Record 18 Route Each 2A WRT5077

£24-11



TUBULAR TYRES

ATA

Recommended Uses

	Weight		7.	ack Ever	nts	- 5	Time '	Trials				49.	R	oad Raci	mg	
	Grams	Tread		Con- crete	Grass	25-50 miles	50-100 miles	12 hours	24 hours	Club	Train- ing	Cyclo	Ker	Cri- terium	Roa	
FONTANA	397,301130		11.55				Marco					Time				
Forte	300	MX								Х	X					
Squadra	260	MX				X	X				774		X	X	X	
Record	220	Н	Х	Х		Х	Х									
LION																
GT 30	300	MX								Х	X					
GT 30	300	R								Х	X					
T36	360	MX										X				
GTR 28	280	MX								X	Х			X		
GTR 28	280	R								X.	Х					
GTR 27L	270	MX						X	Х	X	х			X	Х	
GTR 27L	270	R						X	х	х	Х				-11	
PR 26	260	MX						X	X	-	-		Х	X		
PR 26	260	R					х	X	X							
PR 24	240	MX				Х	X				130		Х	Х		
Part Charles Committee Com	240	R				X	X									
PR 24	-					X	X	Х	Х		_		Х	Х	Х	
PR 24L	240	MX				X	X	X	X				^	^	^	
PR 24L	240	R	744					A	A	_			Х	Х	_	
SL 22	220	MX	X	Х		X	X						Α.	Α.	_	
SL22	220	R	Х	Х		Х	X				_	_			_	
SL21	210	MT	X	Х	-	X	X									
MILREMO											190			4.1		
Sportivo	310	MX								Х	Х					
Cadetti	260	MX								Х	X					
Mondiale	290	R				X	X	X								
Specialissimo	300	R					X	Х		X						
Nuovo							-						- 12	- 22		
Leggerissimo	260	MX				X	X					-	Х	Х		
Normal Cross	370	C			Х	1871	1200		100	10000		X	220			
Nylon Butyl	230	MX					X	Х		X			Х	Х	Х	
Nylon Latex	200	MX		Х		Х	Х			_			Х	Х	Х	
VITTORIA																
Mondiale	290	MX				X	X	X		X	X			Х		
Leone	330	MX								211	X	DOM				
Giro del								1530		170			11/2	327	53	
Mondo 306X	260	MX.		-				Х	Х			- 0	Х	Х	X	
Mastercross	370	C			Х				1900		1000	Х	- 11	522.0		
Trofeo 205	260	MX	II =			X	X	X	Х		Х		X	X	Х	
Trofeo 206	260	R			1500	Х	X	Х	Х		X		10.5	101		
Juniores 501-20	210	MX		42	100	X	Х									
Juniores 501-22	230	MX.	17.7			X	Х						Х	Х		
Juniores 501-24	250	MX					X	X	-					Х	Х	
Juniores 501-26	270	MX			/ P		Х	Х	Х	19750	Х	10				
VITTORIA NUOVA LINEA	10	-														
Corsa CM	240	R				X	X									
Corsa CX	240	MX		1111	LINE	X	х						Х	Х		
Corsa CG	240	MX				X	Х	X	X				Х	Х	Х	
Cronometro CS	190	S				X	X									
Pista CS	150	S	Х	Х		-	-									
Corsa Seta CM	230	R	, At	, ne		Х	Х	X								
		-					**	***					Х	Х		
Corsa Seta CX	230	MX											X	X		
Corsa Seta CG	230	MX											.0.	- 1		

TUBULAR TYRES



DATE

Cronometro Seta CS	180	MX		X		Х	Х								
Special CG	240	MX				X	X	Х	X				X	X	X
Special CX	240	MX				X	Х	X					X	X	X
Cronometro CT	180	G		Х		X	Х								
Cronometro CX	170	G		Х		Х	Х								
Pista Seta CS	140	S		Х											
WOLBER		445													
Strada 80	310	MX								X	X				
Junior Butyl	335	MX								100	X				
Corsa 80	265	MX						X	Х	X			Х	Х	
International	290	MX						X	X	X	X				
Criterium	240	R				X	X						Х	Х	
Cross	360	F			X							Х		1000	
Cross Super	360	C			Х							X			
Leader 80	255	MX						Х	Х	Х					
Special Course	280	MX					====	X	Х	Х	X				Х
Cross 28	400	C			X							Х			
Neo Pro	260	MX				Х	Х						Х	X	Х
Invulnerable	280	MX					Х	Х	Х					Х	Х
Pro-84	230	MX				X	Х				111		Х	Х	X
Performance	215	F				Х	Х						Х	Х	
Competition	215	MX	0-1			Х	Х				117/		Х	Х	
Piste	185	MT	X	X											
Record 18 Piste	160	MT	Х	X											
Record 18 Route	180	MX				Х	X						Х		
Route Renforce	365	F									Х				
SUP AIR LATEX												12.0			
Sup air Latex 240	240	MX				X	Х	Х					Х	Х	Х
Sup air Latex 220	220	MX.				X	X						X	Х	

TREAD KEY: F - File MT - Matt <math>MX - Mixed R - Ribbed S - Smooth C - Cross G - Glazed H - Honeycomb X - Indicates that the tyre is suitable for the type of event shown above. Sizes not shown are Standard 27°.

A MESSAGE TO NEW DEALERS

If you are reading this catalogue for the first time, and do not have an account with us yet, please contact our Sales Manager for details.

We supply any bona fide cycle shop on credit terms (subject to satisfactory references). Many of our goods are also available through local factors.

You can place orders by telephone, by post or through our area representatives.

All but the smallest orders are carriage-paid.

Experts on our staff will advise on all equipment needs and problems and we are pleased to see dealers at any time if they wish to visit our premises.

Dealers new to the trade usually welcome our advice on stocking-up, always a difficult period in the life of a new business.

HING EVERYTHING CYCLING

Apart from the acutal components of the bicycle, and the clothing which the enthusiast cyclist chooses to wear, there are many other items available which can make the

equipment-conscious cyclist happy.

There are the many and varied books on cycling, personal experiences and advice, for the beginner and for the

specialist.

specialist.
There are the items which help to keep bicycles in the best of condition — wall racks, cycle covers and transporting bags, covers for tubular tyres or even complete wheels. Roof racks help to solve the travel problems of the cyclist who wants to race or tour far afield, and needs to take a car part of the way. It is no longer good enough just to strap your treasured machine hopefully to an ordinary roof rack, especially since custom-designed racks offer such a choice of fixings and fittings.
Cyclists need bags to carry their many chattels, from the simple musette which is slung over a shoulder, to the full-blooded team bag which carries the needs for a whole day's racing and more.

day's racing and more.

Sunglasses for sportsmen, massage cream for tired legs, handy stands to keep the machine upright for display, even magnifiers for the map-studying would-be traveller where will it all end?





BEHR



Spectacle mirror

In modern traffic conditions, the ability to "see behind" without turning the head must be advantageous and the Behr mirror, which clips to all types of spectacles, does give an adequate view of vehicles approaching from behind. The 25mm diameter mirror will not shatter, and the metal fittings are of nickel-plated



Spectacle mirror 7X BHR \$1070

BOOKS

Agonistic Cycling

Written in English by Italian specialist Agostino Massagrande, this hard-covered book has been adopted by the UCI as its instruction manual for technical courses. In its 173 illustrated pages are details on the bicycle itself, on nutrition, athletes physiology, and the techniques of training to a high level. This is a book from which all racing cyclists can benefit.



A. Massagrande Agonistic Cycling 7X ACG 5303

£12.72

The Young Cyclist's Handbook

This hard-backed volume contains plenty to look at as well as to read. It's a mine of basic, yet vital advice for the new cyclist, young and old — despite the title. It is profusely illustrated, frequently in colour, and covers the history of the bicycle, choosing a machine, riding technique, and getting the best out of the pastime and sport. The author is Ken Evans, former Editor of "Cycling" magazine



Ken Evans The Young Cyclist's Handbook 7X KS 5315

£3-50

L'Annèe du Cyclisme

Pierre Chany's annual hardback review of a year's cycle racing, with major Continental classics and the Tour de France holding pride of place. Detailed results are also given. Hundreds of photographs, many in colour, tell a story every cyclist can understand, even though the text is in French.



Pierre Chany L'Annee du Cycli PCY 5320

7X Ron Kitching 'Cyclist's Log'

Now there is a way to store the facts and memories of a lifetime's cycling. For racing man, tourist or leisure rider, a handsome record book which you will treasure in the years to come. Chart your mileage, trace your equipment expenditure, list your favourite touring overnights and tea-places, record the progress of your personal best times, road and track performances, note down how you feel now — so that you can remember in the future. An ingenious way of logging the cycling life of any kind of ider, to be filled in every day, every week — or just when you feel like it. 224 pp. case-bound, with gold-blocked hard COVEL.



Ron Kitching Cyclists Log Each 7X

RT \$323 10U £3-00*

The Complete Cycle Sport Guide

An unequalled guide to training for racing cyclists, by West Germany's official team doctor Peter Konopka Particularly noted for its advice on compiling training programmes. 182 pages, many illustrations.



Peter Konopka The Complete Cycle Sport Guide Each 7X PKA \$325

Sutherland's Bicycle Mechanics Handbook

Welcomed by those who have been guided through the maze of bicycles and equipment now available by the two previous volumes The number of sections has been increased to 16 and the expanded increased to 10 and the expanded index has 470 entires ranging from 'Adjustable wrench' by way of 'Chainwheel interchangeability' to 'Wire gauge sizes'. Perhaps the largest of the new sections, 28 pages on single-speed coaster brakes, will be of limited willing to British senaiters but limited utility to British repairers but 27 pages on three and five-speed

hubs (seven types of Sturmey-Archer) all with clear 'exploded' drawings and detailed instructions cannot fall to instruct. The same minute attention is given to every component; there are 189 entries under 27-inch wheels in the 30 pages on spokes, rims and tyres. There is a full explanation of those mysterious markings which have recently appeared on tyre walls and new entries in the spoke chart for radial spoke lengths. There are 430 listed details applying to more than 30 headsets. Hints and tips abound, from how to remove the last sprocket on an all-threaded freewheel to 11 reasons why a head set binds. There is a six-language glossary of part names and an incidental short course in English-American. The physical make-up of the book is

The physical make-up of the books as impressive as its contents. The printing and the layout are perfect. Page size is 11 inches by 8½ inches in heavy art paper. Card dividers with plasticated tabs separate the sections, all held in a strong, plastic-backed easily-opened ring binder that amply overlaps the pages.



Sutherland

Bicycle Mechanics Handbook Each 7X SDS \$340

£33-03

Designing and Building Your Own Frame

Many items have been described as "the last word" but in regard to what is indicated by the title, this book is the first, the last, and everything in between! Written by an enthusiastic amateur and intended for likeminded readers, it nevertheless contains a wealth of data, information and instruction from which even the most experienced professionals can benefit. From 'Design fundamentals' to 'finishing and painting', nothing is omitted and in the 162 pages and over 170 photographs there is abiding interest even if you have no intention of doing your own thing. Actually Dick Talbot is a professional engineer, age 44, and a frequent contributor of technical articles to the cycling press of America, but this book has been written for the love of the subject.

which is what 'arnateur' really implies



Richard Talbot

Designing & Building Your Own Frameset Each 7X MGD \$310 £40-09

Ride It! BMX

The first UK book covering BMX sport from every angle. Almost 150 pages, hard-backed, pictures on almost every page.



Ride It! BMX by Don Smith Each 7X DS \$333

BMX

Inexpensive large-format book on BMX basics, ideal for the beginner, 63 pp, many colour illustrations.



B.M.X. by Dave Spurdens Each 7X DSN \$336 £1-99

Catalogues

Sun Tour Illustrated
Each 7X STR S400 £0-80 T.A./Tevano 7X TA \$405 £0.30 VAR (Tool) Illustrated Each 7X VAR \$415

Zeus 105 Illustrated Each 7X ZS S246 £2-96 Books and catalogues are VAT fre Except*

CINELLI



£0-80

Bags

Kit Bag - in nylon - with zip Each 7X CI \$935

Wheel bag
A quality product for transporting and protecting expensive wheels. The bag is of tough waterproof nyion, as are the carrying straps. A 180-degree zip makes access easy.



CINELLI-continued



Wheel Bag - in nylon - with zip Each 7X CI \$945 10M

Tub bag
The Cinelli tub bag has an open top
end and the rear portion can be extended to allow for the easy positioning of the folded tyre. Closure is by Veicro, and a nylon strap holds it behind the saddle. In soft, stmulated leather.



Tub bag in simulated leather Each 7X CI 5980 1 10M £2.76 Each

CINELLI BICI

Display stands

Minisupport
An ingenious support made of zinc-chromed steel, which cradles the bottom bracket and lifts both wheels slightly off the ground. Ideal for shop displays



50 Minisupport Each 7A CBI 5621 5M €6-79

Mono Bicisupport
A free-standing chrome-plated
display support. The complete
machine is supported at the crossbar by two rubber-covered hooks and an adjustable third hook stops the handlebars turning. Very stable in use, and of obvious high quality.



52 Mono 7A **CBI 5624** 5M £26-12

Duo BicisupportAs article 52, but holds two machines one above the other. An ideal choice where height is available but floor-space limited



55 Duo - double stand 7A CBI 5627 SM £43-22

Wall/celling rack

An ingenious rack which allows a machine to be suspended by the cross-bar either mounted on a wall or from the ceiling. In zinc-plated steel. with rubber-padded hooks. Fittings supplied for fixing to solid or hollow walls.

73 Wall or ceiling rack Each 7A CBI \$631 5M €8-12

Frame display stand

A dynamic display of frame sets is rade simple by using the Cinelli system, which presents framesets securely held without damage to their finish, at varying heights, all clamped to a stable floor mounted and easily moveable modular support base. The system is made of steel which is either chrome-plated or epoxy covered. It is adjustable to cope with uneven floors or other surfaces. When collapsed, it can be stored in a space 34"×18"×5½". The modular frame can be extended by the further purchase of other intermediate modules and further sets of frame stands to extend the basic unit theoretically to infinity. The basic package contains everything necessary to display 6 framesets, but the basic module itself will take up to 16 framesets if really necessary. When assembled, the basic module measures 5' 11"×2' 3"×1' 3".



85 Frame display stand Each 7A CBI \$634 £102-60 5M Extra support for No. 85 Stand €5-80 CBI 5650

Bici-prop bike support

In blue epoxy coating with two rubber-padded hooks, this is a simple support stand which is effective in an

instant. The two rubber-clad components slot over the chainstays immediately behind the bottom bracket. When the machine is moved forward slightly, the prop stand lifts the rear wheel just off the ground for display or maintenance.

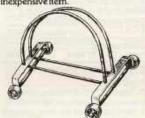


81 Bici-Prop Each 7A CB1 S636 5M

DECMA

Display stand

The rear wheel of any machine slots into this stand, and the whole machine is then stable, and displays can be changed in seconds, thanks to the castors on the base of this inexpensive item



Showroom display stand on castors Each 7A DA \$650 20U

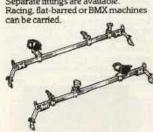
MINOURA

Luxury roof rack

The RC-2 is an aristocrat among roof

Using top-quality materials, it is designed to combat the ravages of British weather. The two transverse carrying bars are of light alloy, the fittings of stainless steel The rack is supplied with fittings for two bikes held complete in the inverted position, the saddle strapped in a non-scratch cradle, the handlebar

secured by two plastic-faced clamps. Separate fittings are available. Racing, flat-barred or BMX machines can be carried



RC-2 for 2 cycles Each 7X MA SI575 €85-34 Set of fittings for above MA SI578 €18-00 RINECYCLE

Massage cream

At last! A non-staining massage cream with a pleasant smell

Kinecycle massage cream has pine-scented turpentine as its active ingredient, emulsified with vegetable oil, and penetrates totally after a few

Recommended for use before or after effort. In handy squeezable plastic container (125 cc) with self-sealing spout.



Massage cream 125 cc plastic bottle Each 7X KE \$1055 20U £1.77

MILREMO



Chamois cream An essential for every racing cyclist's holdall, this inexpensive product lubricates the chamois inserts in racing shorts and guards against saddle soreness — two valuable functions which help to maintain a



Chamois cream Each 7X MO \$1075 10U £1-32

Map magnifier

Neat, simple and ultra light thin plastic magnifier, 95×32mm in protecting plastic case, for a better look at route details



Plastic in cas MO \$1000 20U 7X £0-16

Metric conversion rule

MO \$1010 20U £0-68

MORIES



OPTIMA SPORTS



Sports sunglasses

A cycling novelty — Optima sports spectacles. A Bernard Croyet creation.

The experience of a designer/sportsman at your service. Comfort, lightweight, safety, efficiency. No more watering eyes.

Protection against insects, dust, reflected light, eye troubles, dazzle, rain and bad weather. For constant wear. Adjustable nosepieces and sidepieces accommodate all face widths. Lenses in CR39 Orgalite.



Bernard Croyet Cycle sunglasses in case OA \$1750

£11-64

ORTO SPORTS



Cycle cover

A one-piece cover for a complete racing cycle, which zips to form snug protection, having only the handlebars, saddle and cranks exposed. Made of waterproof nylon.



Storage cover Each 7X

OS S1520

RON KIT



£32-66

Badge

The distinctive Ron Kit emblem is featured on this high quality sew on woven badge, giving a blue and gold highlight to saddle bag, jacket or



Woven badge Each 7X RT S257

£0.21

Musettes

PVC

This larger than average musette keeps out the weather, thanks to the plasticised material, the white plastic rear-facing panel which carries the Ron Kitching emblem, and two press-stud fastenings. Of tough construction, it features two loops for extra waist fastening when required. 14"×12".



PVC & nylon musette Each 7X RT S20 RT 5260

Cotton

This cotton musette bag has one-piece construction for strength, has two neat press-stud fasteners and folds down into any small pocket when empty — ideal for carrying those unexpected purchases 12"×11"

Cotton musette Each 7X RT 5261

€1:64

Training spectacles

Turino

Recommended for training whether intensive or occasional. The frame is in black plastic and the clear, smoked or yellow-tinted lenses are unbreakable, with a turned-back outside edge that gives full protection against insects in summer and cold winds in winter.



7X RT 51770 £1-48

Gear calculator

An indispensable aid for touring as well as racing. Its size enables you to keep it handy to give instant answers to make sure you have the right gear combinations to suit conditions prior to competition. The range of chainwheels and sprockets available from Ron Kitching covers the widest possible number of gear ratio combinations. T.A. for example, offer 1 million combinations! This table covers them all, giving chainwheel sizes from 26 to 68 teeth and sprocket sizes from 11 to 38.



Gear calculator

RT 51700 7X

Spoke calculator

An 11"×41/4" cardboard slide rule by following a few simple directions will give you the length of spokes required for most combinations of rim, hub and spoke crossing. Rim sizes go from 14" to 28" and 700C, hub flange diameters from 34 to 67mm and spoke crossing from 24 to 67mm and spoke crossing from 24 to 67mm and spoke crossing from and spoke crossing from the factor. spoke crossing from one to four. There is also a hub-flange gauge and a mm/inches scale

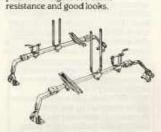


Spoke calculator Each 7X RT 51705

ROTO

roto Roof racks

Versatile roof rack which allows two machines to be carried upright, with front wheels removed and in separate fork fittings. There is room for a third bicycle using an optional extra set of fittings. The rack components are steel, covered with a grey/white plastic coating for corrosion



9188,60 for 2 cycles Each 7A RO \$1551

9190

Similar in construction to the 9188, this model takes two bicycles inverted, fixing them by two clamps at the handlebars and a trough for the saddle. Wheels need not be removed.



9190,60 for 2 cycles (carried inverted) Each 7A RO \$1552 £40

Boot rack

€0.50

£1-30

Similar to the 9190, but designed to fit to a car boot lid

9195.00 for 2 cycles (carried inverted)

(Boot fitting) Each 7A ROS1565 £39-64

Snare Attings

-5		-9-	
9188	63 for !	9188 model	200000000000000000000000000000000000000
Set	7A	RO S 1556	£11-70
9190	63 for !	9190 & 9195	
Set	75	PO \$1562	₹9-25

Wall rack

The Roto cantilever bike rack will hold a bicycle in two plastic-covered hooks one foot from any wall to which it is affixed. The arms are of 9mm round steel rod, hinged to 350mm of stout hollow box girder. Expandable plugs are supplied and these give a firm hold in any type of walling. There is provision for fitting an additional central support if necessary and the arms fold flat against the wall when not in use



9292 in Z.P. steel Each 7A RO S1630 10U

£4-57

SUNTOUR



Team bag

A massive and versatile bag in blue waterproof nylon. Two wide black webbing straps with alternative fixings to allow the bag to be rucksack or holdall style. Double zip to velcro-tabbed top flap.
Zipped side compartment plus further open pocket.



Team bag in nylon 7X STR 5954 SU

£19-18

MORIES



OPTIMA SPORTS



Sports sunglasses

A cycling novelty — Optima sports spectacles. A Bernard Croyet creation.

The experience of a designer/sportsman at your service. Comfort, lightweight, safety, efficiency. No more watering eyes.

Protection against insects, dust, reflected light, eye troubles, dazzle, rain and bad weather. For constant wear. Adjustable nosepieces and sidepieces accommodate all face widths. Lenses in CR39 Orgalite.



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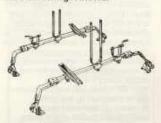


Spoke calculator Each 7X RT 51705

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9292 in Z.P. steel Each 7A RO S1630 10U

£4-57

SUNTOUR

Team bag



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Zipped side compartment plus further open pocket.



Team bag in nylon 7X STR 5954 SU

£19-18





Display stands

Convenient, simple, compact, adaptable to all cycle models. With plastic foot, plastic pads. The ideal stand for window display, showrooms, in the house or for minor

repairs. Also available with castors for increased mobility



No. 164 Cycle display stand crank Each 7A VAR \$220

No. 166 as above on castors Each 7A VAR 5225

£9-10

Roof rack fitments

Adjustable, fits to the lateral bars of almost all roof racks. Front forks and bottom bracket are attachment points, leaving wheels free from any possibility of chafing



333 Porte-velos Set 7A VAR \$1560

£46-41

716 Tour de France
Bilke carrying rack for fast action. Fits
any roof rack with transverse arms.
One complete machine is held upright
in a shallow trough, by a quick-release clamp to the steel tube Releases in a second.



716 Roofrack attachment

VAR S1565 £61-57

716/1 Quick release for above 7A VAR \$1566

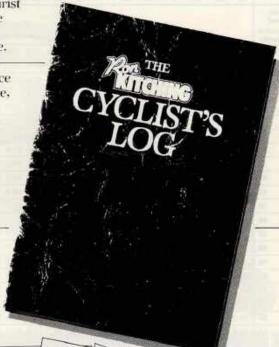
£30-31

THE RON KITCHING CYCLIST'S LOG

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Chart your mileage, trace your equipment expenditure, list your favourite touring overnights and tea-places, record the progress of your personal best times, road and track performances, note down how you feel now - so that you can remember in the future.

An ingenious way of logging the cycling life of any kind of rider, to be filled in every day, every week - or just when you feel like it.





Box Kirching: Hookstone Park Harrogate Vorkshire England: Tel: 0423-885414/883461. Tidex 57868: Telegram RocKit Harrog

Get into right gear with CYCLEPARTS INTERNATIONAL from RON KITCHING Hookstone Park, Harrogate.

Gear Table for 27" Wheel

(Also Approximate For 700 C Size And Tubular Sprint Rims)

Sprocket (Number of teeth)	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	38
Chain wheel (Number of teeth)																	um ozid						aprovat		
26	63-8	58-5	54.0	50-1	46-8	43.9	41.3	39-0																	
28	68 7	63.0	58-1	54-0	50-4	47.2	44:4	42.0																	
30	73.6	67.5	62-3	57-8	54-0	50-6	47-6	45:0	42.6	40-5	38-5	36.8	35-2	33.7	32-4	31-2	30.0	28-9	27-9	27-0	26-1	25-3	24.5	23-8	21-3
32	78-5	72-0	66-5	61-7	57-6	540	50.8	48.0	45.5	43 Z	41-1	39-3	37-6	36:0	34.6	33-2	32.0	30-8	29-8	28-8	27 8	27-0	26-2	25-4	22.7
34	83-4	76-5	70-6	65 6	61-2	57-4	54-0					41-7													
36	88-3	81-0	748	69-4	64-8	60.7	57:1					44.2	A STATE OF		271242	CARL CONTRACTOR					_	_			
38	93-2	85-5	78-9	73-3	68-4	64:1	60-3	57-0	54-0	51-3	48.9	46-6	44.6	418	41-0	39-5	38-0	36-6	35 4	34.2	33-0	32-1	31-1	30-2	27-0
40	98-1	90-0	83 1	77-1	72-0	67-5	63:5	600	56-8	54-0	51-4	49:1	47-0	45-0	43-2	41-5	40-0	38-6	37.2	36 0	34.8	33-8	32-7	31-8	28-4
42	103:0	94.5	87-2	81-0	75-6	70-9	66:7	63-0	59-7	56-7	540	51-5	49-3	47-3	45-4	43-6	42-0	40-5	39-1	37-8	36-5	35-4	34-4	33:4	29-8
43	105/5	96-7	89-3	82-9	77-4	72.5	68:3	64-5	61.0	58-1	55-2	52-7	50.4	483	46-4	44-6	43-0	414	40-0	38-7	37-4	36-3	35-2	34-1	30 6
44	108-0	99-0	91.4	84-9	79-2	74-3	69:9	66.0	62.5	59-4	56-6	54-0	51-6	49.5	47.5	45.7	44.0	42.4	41-0	39-6	38-3	37-1	36-0	34-9	313
45	110-4	101-2	93-4	86 B	81 0	75.9	71-5	67.5	64.4	60.7	57:8	55-2	52-8	50-6	48 6	46-7	45.0	43.4	41.9	40-5	39-1	38:0	36-8	35.7	32.0
46	112.9	103 5	95.5	88.7	82-8	77-6	73:1	69-0	65-4	62-1	59 1	56.5	54-0	51-8	49.7	47-8	46 0	44-4	42.8	41-4	40.0	38-8	37-6	36-5	32-7
47	1153	105-7	97-6	90-6	84-6	79.3	74-6	70-5	66.8	63-4	60-4	57-6	55.2	52.9	50-8	48-8	47-0	45.3	43-7	42-3	40-8	39-7	38-5	37.3	33.4
48		108-0			86-4	81.0	76-2	72:0	68-2	64.8	61-7	58.9	56-3	540	51.8	49-9	48-0	46-3	44-7	43-2	41.8	40-5	39-3	38-1	34 1
49	120.2	110-2	101-8	94-5	88-2	82-7	77-8.	73-5	69.6	66.2	63-0	60-1	57-5	55-1	52.9	50-9	49-0	47.2	45 6	44-1	42-6	41.3	40-1	38.9	34.8
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63	-			121-5	_				-			78-5		_		-		_	CONTRACTOR	_	_	_		-	Printer Street, St.
64	-	-	_	123-4	_			_																	
65				125-4																					
- 66				127.3																					
67				129-2																					
88	166 9	153-0	1412	131-1	122-4	114-8	108-0	102-0	96.6	916	87-	83.5	79-E	76.5	734	701	084	00.4	0.3	9 01.	E 29.	5 3/4	, 356	341	40

The gear ratio, when multiplied by $3.1416(\pi)$, is the distance in inches travelled by the driving wheel for one revolution of the pedals and is calculated as follows:—
Wheel diameter in inches MULTIPLIED by the number of chainwheel teeth DIVIDED by the number of teeth on the rear sprocket.

