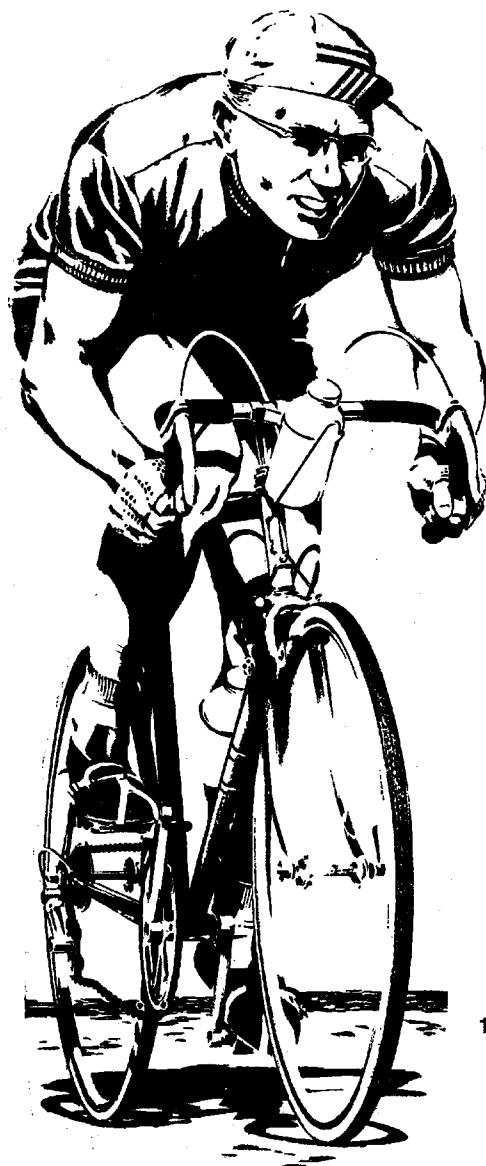


Introducing Ron Kitching Mr. Everything Cycling



middleman between the buyer and the Continental seller, a real estate man who has never laid a brick, would be quite wrong.

RON has been "the chap with the bike shop down the road," international tourist, tandemist, top time-triallist, roadman, crossman, hill climber and a Yorkshire champion several times over. His life has been a dedication to cycling in all its forms. Here are some of the highlights of a very active life.

1930 So early Ron was already a keen teenage tourist and soon he became a regular YHA weekender and a life member of the Cyclists' Touring Club.

1934 Spring of that year saw his first incursion into racing and his 4th race gave him his first success at the age of 18. This race, the Y.C.R.C. 12 hour event, early indicated his natural staying ability and the next 17 years were to see him achieve many more long distance successes and records before an accident curtailed his competitive cycling.

Despite winning open TT's at all distances from 25 miles upwards, time-trialling did not remain his only racing interest and his successes in Hill Climbs, Cyclo Cross and Massed Start Road Races made him a true all-rounder.

1938 Returning from Australia, and faced with a choice of a future career as a "pro" racer or a cycle trader, he chose the latter, and this decision most certainly must have speeded up the modernisation of present day British cyclist's equipment. From that day on Ron dedicated himself to a life of specialised service in the cycle trade.

Despite the calls of a rapidly extending business giving him only a limited time for training he took a very active part both as administrator and as a successful competitor during the early B.L.R.C. efforts in the 1940's in establishing road racing on the open roads of Britain and later he was one of the first British riders to race on the Continent after the war.

Those Continental excursions led to the commencement of his importing business with the buying of the superior overseas racing equipment and so enabled British riders to compete on equal terms with the Continentals. Britain's many post war world champions show their appreciation to Ron by their continued friendship and helpful advice.

1970 40 years after that modest beginning sees Ron Kitching now acknowledged as the expert, having a combination of practical experience of the sport and pastime plus his unique contacts in the cycle trade and sport in all parts of the world, still ready to help cyclists wherever they are to enjoy even more the best of EVERYTHING CYCLING.

The History of Harrogate's CYCLING CENTRE

1878

Set in the heart of the Yorkshire dales, there is the beautiful floral town of Harrogate, famous now for its Conferences, Exhibitions and its park like "Stray". Here there is a plaque commemorating the formation on the **5th August 1878** of the first touring club in the world—the "BICYCLE TOURING CLUB", known since 1883 as the famous **CYCLISTS TOURING CLUB**.

1938

That year saw the C.T.C. return to Harrogate to celebrate its Jubilee under the Presidency of the late **G. H. Stancer** and at the head of the long procession of cyclists circling the town the local C.T.C. Section rode vintage machines similar to those used 60 years earlier.

Ron Kitching chose to ride a 60" "ordinary" in contrast to the modern lightweights which he was now selling from his first **CYCLING CENTRE** opened in that same year in **June 1938**.

1948

Ten years have passed and Harrogate's **CYCLING CENTRE** is now the mecca for cycling enthusiasts from all parts. Imports begin to flow in from the Continent as Ron searches out the latest in post-war ideas from Europe's factories.

1953

In order to expand his distribution Ron Kitching (Wholesalers) Ltd. is formed, giving cycle shops in all parts of Great Britain access to his now famous specialities.

1957

The "marque" **MILREMO** is registered and so begins one of Ron's greatest success stories with a new and ever expanding range of quality accessories being offered at economical prices.

Other registered Trade-Marks such as **RONKIT**, T.A., **ZIFFIRO**, **J. ANQUETIL**, **REG**, **SILCA**, **LASWISS** follow over the next few years—all becoming household names in the cycling world.

1958

Later on **ACCAL** (Anglo-Continental Cycles and Accessories Ltd.)—a third limited company is necessary to take care of the exports of British goods and for the distribution of imports to the major cycle manufacturers and other wholesalers in Great Britain. Ron was determined to share the good things in cycle design with the maximum number of interested parties.

1963

New premises were obviously becoming necessary to cope with the ever increasing stock space required. On 28th March 1963 **Beryl Burton**, the world's greatest ever woman cyclist, and many times Champion of the World, performing the Opening Ceremony of the new **CYCLING CENTRE** built on a trading estate on the South side of the town. These modern spacious premises cover 5,000 square feet, have two storeys and are designed to permit the rapid flow—transit of goods inward and outward. Trade counters plus a 600 square foot showroom and a two-storey office block are also incorporated with all the offices being complete with the most up-to-the-minute equipment.

1968

More expansion with a twin warehouse being built alongside the first and so doubling the storage space.

1969

No fewer than ten European countries are now furnishing the needs of the **CYCLING CENTRE** and one of these, France, sends under groupage almost every week, the products from no less than 60 different firms. Other far away countries now begin to use the export/import services of R.K.'s companies including the U.S.A., Japan, Australia and New Zealand and South Africa. This catalogue/handbook is designed to progress this exchange of goods in the 1970's.



March 28th 1963—**BERYL BURTON** with **RON KITCHING** at the opening of the new **CYCLING CENTRE**

Distribution Services supporting the Everything Cycling Catalogue/Handbook

We have endeavoured to bring to you in this book a complete lightweight cycling service.

In addition to the Advice and Technical Data Sections we have searched both Britain and Overseas to secure for you the very best in cycle frames, accessories, sports clothing, sundries, tools, brazing parts, etc. that are available.

Products stocked

The products stocked are all of proved reliability and are personally tested by our own staff of practical cyclists. The index before each section lists the names of the makers and the article alphabetically. If the article is not listed it may still be available—our range is enlarging almost daily.

Sole Concessionaire

Ron Kitching is the appointed Sole Concessionaire for many of the World's leading manufacturers and both he and they appreciate the necessity of having their products delivered to you in first class condition and backed later by a first class service.

These products exclusive to Ron Kitching are additionally covered by Ron's own personal guarantee and for this reason they are strongly recommended.

British Registered Trade Marks

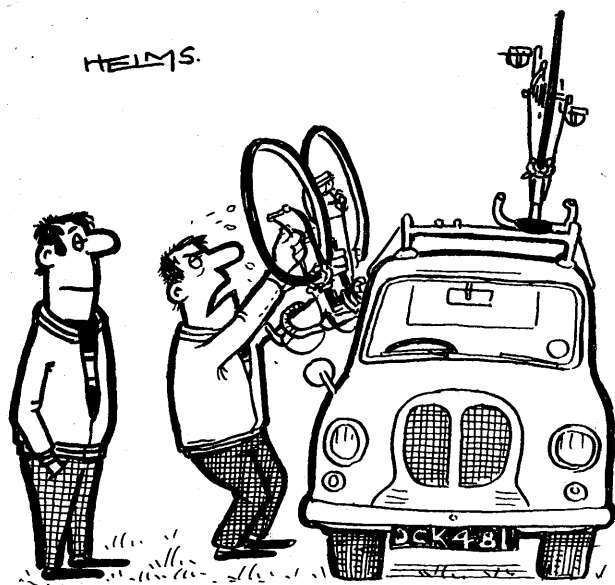
In order to give complete protection and fuller guarantee and to ensure that these goods are only sold by dealers able to give proper service facilities, certain Trade Marks have been registered and these are under the complete control of Ron Kitching.

RONKIT	is a range of Sports clothing and Personal sundries designed by practical riders.
MILREMO	the largest ever selection of quality cycling products made to the special design of Ron Kitching in the World's finest factories.
T.A.	accessories and transmissions that represent a quality and design that is unsurpassed.
REG	products have the reputation of value unbeatable.
SILCA	a range of cycle pumps chosen by champions.
LASWISS	the finest value ever in Tubular tyres.
ZIFFIRO	quality clothing from head to foot.
J. ANQUETIL	Frames worthy of the name of the finest "tester" and "tour" rider of all time.
ZEUS	a complete range of World Champion fittings.

Distribution

Goods are distributed through selected dealers located in all parts of Great Britain, many of whom are listed in the "Where to Buy" Section. Write to us if you are in difficulty in obtaining supplies of our specialities or for advice but your local dealer should be able to serve you. Due to the perfectly centralised situation of Ron Kitching's Cycling Centre our delivery service is ultra rapid. We welcome overseas enquiries.

HELMS.











"I wish you'd buy some lightweight equipment off Ron Kitching"

All goods in this catalogue are subject to maker's guarantee as regards faulty workmanship and materials. This guarantee however does not cover any damage or defect due to wrong assembly, bad fitting, accident or normal wear. The manufacturers or their agents will not be answerable to any claim for labour or any other liability or loss arising from any such defect.

Articles subject to claim should be returned to your supplier first and then sent to us by him carriage paid, labelled with his name and address, enclosing full details of date of original purchase and nature of complaint.



RON KITCHING (2nd right) assists in cycle preparation at the start of the Tour de France. Also in the picture are HENRI GEORGE, ANDRE BERTIN and LOUIS NAVET (T.A.).

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For **prices** of all the goods listed above—plus other **accessories stocked**—plus **spare parts**—plus **where to buy**—see separate booklet.

The Location of Harrogate's CYCLING CENTRE

Inside back cover.

CYCLE ACCESSORIES

Full specifications-Illustrated

This Section, amply illustrated, fully describes only part but nevertheless the more popular of the vast range of accessories that are available through the services of the RON KITCHING organisation. The accessories featured in this Section have been thoroughly tested by leading riders, both amateur and professional, and we strongly recommend you to make your choice from the pages of this Section. A complete list of all the accessories stocked however will be found in the separate Price List.

CYCLE ACCESSORIES INDEX-by Manufacturer

ABCO	Trafficators,
A.E.R.O.	Shoe Plates
ANERO-SPORT	Saddle Covers
ANQUETIL	Bottle, Bottle Cage, Racing Saddle
ATAX	Handlebars, Stems
BALILLA	Brakes, Brake Levers, Brake Blocks and Shoes, Toeclips, Toestraps.
BATAM	Pump Adaptors
BEBOREX	Brakes, Brake Levers
BIBIA	Baggage Elastics, Carrier, Chain Protector, Dynamo Pulley Caps, Goggles, Mudflaps
BINDA	Toestraps
BOOKELAAR	Carriers
CHIMIPLAST	Tyre Adhesive Tape
CINELLI	Bracket Fittings, Cranks, Handlebars, Handlebar End Caps, Handlebar Stems, Head Fittings, Hubs
C.L.B.	Brakes, Brake Levers
CONDOR	Horns
CONTINENTAL	Tubular Racing Tyres
DEW	Saddle Cover, Flag Staff
ECLAIR	Pedals
EHA-ATOM	Cycle Tube Valve Inserts
FIFON	Chain rivet Extractors, Freewheel Removers, Spoke Nipple Keys
GIAN ROBERT	Chain Rivet Extractor Pliers, Gears
GUTTACOL	Dynamo Pulley Covers, Handlebar Tape, Tubular Tyre Sewing Set
HECTOR MARTIN	Shoe Plates
HETA	Bells
HURET	Gears, Clips, Tunnels, Stops
IDEALE	Saddles, Saddle Clips, Saddle Cover
IRIS	Cycle Roller Chain
JANTEX	Tubular Tyre Adhesive Rim Tape
JOS	Dynamo Head Lamps, Dynamo Sets, Dynamo only
K.B.	Rubber Pedals
LAM	Brakes, Brake Levers
LASWISS	Tubular Tyres
LA VIPERE	Dynamo Pulley Cover, Brake Blocks, Brake Shoes, Handlegrips, Shoe Plates
LEDUCQ	Pump Clips
L1GHTRACE	Bracket Fittings, Bracket Axles, Head Fittings
LYOTARD	Pedals
MATEX	Cyclo-meter
MAVIC	Sprint Rims
MILREMO	Baggage Elastics, Bottles, Bottle Cages, Bracket Sets, Brake Blocks, Brake Shoes, Cable Clips, Inner Wires, Outer Cabling, Chainwheels, Cranks, Cotter, Dynamo Sets, Freewheels Removers, Lever Rubbers, Handlebars, Stops, Rests, Handlebar Stems, Tape, Head Fittings, Hubs, Mudguards, Carriers, Pedals, Pedal Tongues, Pumps, Pump Clips and Adaptors and Connections, Rims, Rim Cement, Saddles, Seat Bolts and pillars, Shoe, Plates, Spanners, Spoke Discs, Spoke Nipples, Toeclips, Toestraps, Toestrap End Buttons, Touring Bag and Cape Straps, Trafficators, Transfers and Placques, Tyre Carriers and Covers, Tubulars, Tubes and Tyres

MOLYKOTE	Special 'G' Paste
OMG	Wing Nuts
OZANNE	Thorn Catchers
PATURAUD	Toeclips, Toeclip Covers, Toestraps
PELISSIER	Thorn Catchers
PHILIPPE	Handlebar Stems, Handlebars
REG (Cycle)	Bottles, Bottle Cages, Brake Cable Clips and Guides, Brake Cable Protectors, Brake Lever Sleeves, Child Carriers, Flag Staffs, Handlebar Grips, Handlebar Grip Streamers, Handlebar End Caps, Horns, Lamp Brackets, Locks, Mascots, Mirrors, Mudflaps, Oil Cans, Price Holder, Pumps, Pump Clips, Pump Connections, Saddle Covers, Spoke Discs, Spoke Nipple Keys, Stabilisers, Stands, Tool Bags, Trafficators, Tyre Levers, Toestraps.
RINDER	Battery Lamps, Dynamo Head Lamps, Dynamo Complete Sets, Dynamo with Headlamp Attached, Dynamo Only.
ROBERGEL	Spokes and Nipples
RON-KIT	Handlebar Bag, Pannier Bags and Carrier, Tubular Tyre Covers
SAN MARCO	Saddles
SCHEFFER-KLUT	Track Pump
SILUMA	Dynamo Pulley Cover, Dynamo Sets, Dynamos Only
SIM	Ball Bearings, Ball Retainers
SOUBITEZ	Dynamo Headlamp incorporating speedometer, Dynamo Only
SUFFICIT	Trouser Bands
SUPER CHAMPION	Sprint Rims
T.A.	Crank Sets, Crank Set Spares, Chainwheels, Bags, Bag Supports, Bottles, Bottle Caps and Covers, Bottle Cages, Brake Cable Guides, Shoe Plates, Tools
TITAN	Handlebars and Stems, Handlebar and Stem Sets, Seat Pillar
TREM	Luggage Elastics
TRIPLEX	Brakes, Chainwheels, Gears, Gear Controls, Gear Tunnels and Stops
T.T.T.	Handlebars and Stems
T.W.F.	Bracket and Head Fittings, Spanners
UNICA-NITOR	Saddle Tops, Seat Pillars, Bag Loops
VAR	Cape and Tubular Bag
VITTORIA (AG)	Repair Outfits, Rim Cement, Tubular Tyres
VITTORIA (Turin)	Brake Lever Hoods, and Sleeves, Handlebar End Caps, Patented Torch Holder, Tubular Tyre Carrier
WOLBER	Rim Tapes, Tubular Tyres, Tubes and Tyres, Valves
ZEUS	Bottles, Bracket Fittings, Brakes, Brake Cable Hangers, Brake Levers, Stirrups, Transmissions, Cable Clips, Chainwheels and Sets, Cranks, Crank Cotters, Gears, Gear Controls, Gear Tunnels and Stops, Gear Lever Rubbers, Head Fittings, Hubs, Hub Cogs, Pedals, Pumps and Adaptors, Saddle Pillars, Seat Bolt, Spanners and Tools, Tubular Tyre Carrier

In addition to the accessories above we also stock a full range of specialities from the manufacturers listed below and full details of these are given in our separate PRICE LIST.
ADIE — BENELUX — BLUEMELS — BROOKS — CAMPAGNOLO — CHRISTOPHE — C.I. — CROSS T.D. — CYCLO — DERMIC — DOVER — EXELINE — FIAMME — G.B. — GRIPFAST — KARRIMOR — LEWIS — LUCAS — MILLER — PETERS — PHILLIPS — PLASTICO — REGINA — RENOLD — ROMAC — SHURESTA — SPEED — SQUIRE — STARLITE — STRONGLIGHT — STURMEY ARCHER — SUPERGA — TERRYS — TOMBAR — TORNADE — TRANSOGRIIP — TRELOCK — UGINOX — UNIVERSAL



clips for frame mounting. Direction indicator lever is fitted to the bars and can easily be operated. Full fitting instructions are supplied with each set. Weight 13 ozs. set (368 gms.). "AR/VS" As above but with additional rear stay indicator lenses 1½" dia. Housed in dome shaped plastic, the amber lenses ensure a clear light every time. Weight 24½ ozs. set (694 gms.).

Using the very latest in design and materials this patented plate is made in plastic and steel and is styled to overcome all the usual problems of fitting between shoe and pedal.

The deep plastic centre slot is reinforced on all three sides by steel plates ensuring rapid and positive location plus long life. Size 3½" x 2" tapering to 1½", weight only 1½ ozs. per pair (43 gms.). AERO plates are supple, silent, light, unbreakable and will never lose their shape.

ABCO

TRAFFICATORS

"V" Transistorised Cycle Trafficators. Amber forward and rear facing lenses 1½" dia. mounted on spring hinged arms, handlebar fitting which fold away when machine is not in use. The plastic battery container is supplied with

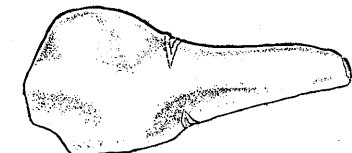
A.E.R.O.

SHOE PLATES

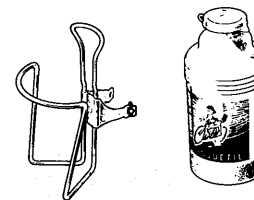


Anéro SPORT

SADDLE COVER



"Danks" Saddle cover is made from top quality chamois leather and is designed to fit most popular racing saddles, covers the saddle nose and is elasticated to ensure a perfect overall fit, eliminates the chafing problems of breaking in a new saddle. Weight 2 ozs. (57 gms.).



BOTTLE AND CAGE

"Grand Prix de Nations" Down Tube Bottle and Cage Unit. Cage is made in one piece heavy gauge steel wire, highly chromed. Fits any full size bottle with one piece non-slip fixing clip. The Bottle in white polythene with "ANQUETIL" motif is light, takes hot or cold liquids and is guaranteed against odour. An attractive red cap with thumb push lip for easy opening is attached by a flexible moulded loop. Bottle and Cage weight 6¼ ozs. (177 gms.). Bottle only weight 2¼ ozs. (64 gms.).

ANQUETIL



SADDLE

"Club" specially selected leather top with chamfered flaps, two-wire frame and cadmium plated fully adjustable clip. ANQUETIL saddles have a cut-away nose section and are shaped to ensure comfort. Bag loops fitted. Weight 23½ ozs. (666 gms.).

A New Name in Cycle Handlebar and Stems. Highly polished ATAX Bars and Stems are light but perfectly suited for their purpose of fitment to all types of machines. Machined to fine tolerances ATAX Stems are made of finest duralumin to British specifications.

ATAX

HANDLEBARS

"Franco Belge"—duralumin. The popular shape to suit most types of cycling.

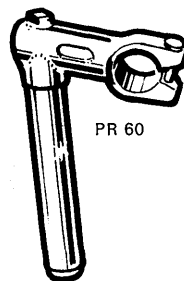
HANDLEBAR STEMS

P.R. 60—duralumin cast pattern with forward facing opening and vertical clip fixing nut and bolt. Pleasing design with ATAX motif incorporated on forward extension. Complete with clip nut and bolt and expander bolt—forward length $2\frac{3}{8}$ ". Weight 8 ozs. (227 gms.).

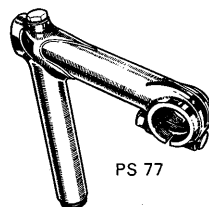
P.S. 77—duralumin cast pattern with downward facing opening and horizontal clip fixing nut and bolt. Neat cut-outs on top and side. Hollow forward extension. Complete with clip nut and bolt and expander bolt—forward length $2\frac{3}{8}$ ". Weight 8 ozs. (227 gms.).

P.S. 78—as above but forward length $3\frac{1}{2}$ "—weight $8\frac{1}{2}$ ozs. (241 gms.).

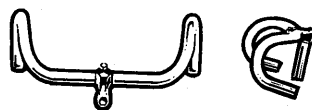
P.S. 79—as above but forward length $4\frac{1}{2}$ "—weight 10 ozs. (283 gms.).



PR 60



PS 77



HANDLEBAR AND STEM SET

A Junior Racing Handlebar and Stem Set—Ref. P.E./53 to meet the increasing demand for junior racing accessories. Strong steel chrome plated bars $13\frac{1}{2}$ " wide fitted to alloy $1\frac{1}{2}$ " close up stem. Weight 26 ozs. (736 gms.). Complete with clip bolt and nut and expander bolt.

Acclaimed by cyclists as one of the foremost of cycle brakes. Modern in design, constructed in the finest materials, light in weight, strong and above all efficient. BALILLA offer a brake to suit any requirement from Junior to the Top Professional. Backed by a full after sales service with a full range of Spares, always available at reasonable prices. Choose from the following range. Remember buying the BALILLA Brakes means buying efficiency with economy.

BALILLA

BRAKES—JUVENILE

Bambino 7-8—Fully chromed stirrups with No. 20 dural lever designed to fit the Junior Cycle that requires cable brakes. Non-slip black brake blocks giving ample braking power. For the weight conscious cyclist the Bambino Brake is also made with dural stirrups.

BRAKES—Standard and Racing

Sport 5-6—The popular side-pull action brake. Chrome stirrups with black rubber brake blocks. Eyebolt cable fastening makes the brake easily adjustable. Complete with No. 20 dural lever and cables.

Sport 3-4—Similar to model 5-6 but with dural stirrups and No. 20 lever.

Sport 3-4—As above but with No. 59 dural lever.

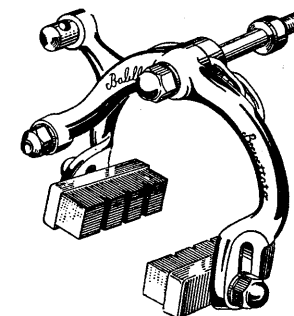
Corsa 59—This is in the original side-pull design with these special features:

- ★ Weight only 19 ozs. pair complete.
- ★ Lightweight stirrups in classic Italian form giving depth variations of $1\frac{3}{4}$ " to $2\frac{3}{8}$ " on the front and $2\frac{1}{4}$ " to $2\frac{1}{8}$ " on the rear.
- ★ Extra strong stirrup return spring operating against built-in non-slip studs.
- ★ Special all white blocks in light alloy shoes. Supplied complete with either No. 62 or No. 40 dural levers, cables and hoods.

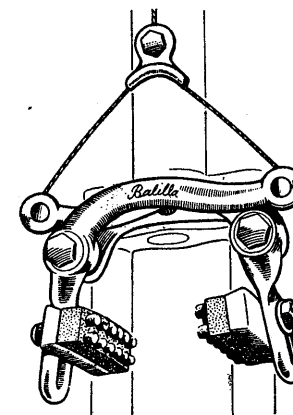
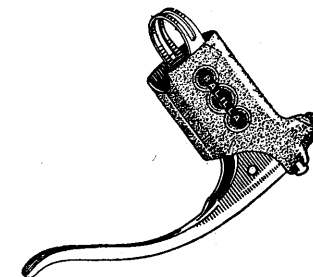
Corsa 61—The racing brake already adopted by the majority of Italy's premier racing teams. The neatest of centre-pull designs, with these additional features:

- ★ Two independently operated powerful return springs extended to give maximum leverage, the extensions being neatly located into grooves at the back of the Brake Shoe Arms.
- ★ Brake Shoes are extra long and are curved to follow the contour of the rim.
- ★ Brake Blocks are special Red non-slip studded.
- ★ Stirrups are shallow front and deep rear additionally adjustable by reversing the centre pivot bolt in its location slot in the centre back plate which also prevents any back plate movement. Supplied with No. 62 dural quick release levers, cables and hoods.

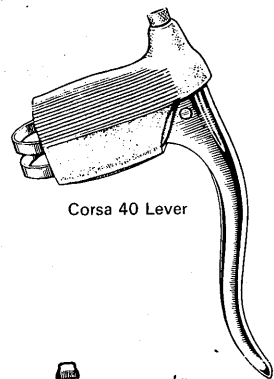
BALILLA



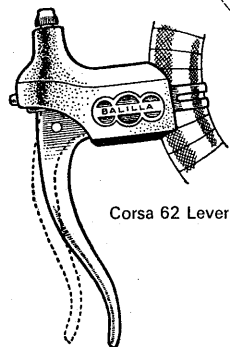
Corsa 59



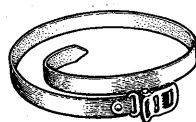
Corsa 61



Corsa 40 Lever



Corsa 62 Lever



BRAKE LEVERS



"Sport" 20—dural, adjustable for flat or racing bars. Ample blade area to suit even the smallest hand. The barrel type nipple cable end ensures replacement cable is easily fitted.

"Sport" Export 59—dural, expertly designed. A rounded lever block gives ample grip when used with racing bars. The lever blade is rounded for comfort. Easily fitted by screw through centre of lever block. Cables for this lever must have a barrel type nipple.

"Corsa" 40—dural. The latest brake lever from BALILLA. Classic design with rounded inside edges. Fitting is by a single bolt through the centre of the lever block. Supplied with or without an attractive grey full cover lever hood; brake adjustment is made with the small adjuster which is incorporated into the lever. To suit all cables with pear shaped nipples.

"Corsa" 62—now improved by the closing of the inside edges of the lever for maximum comfort. The famous BALILLA PATENTED QUICK RELEASE consisting of a hinged centre piece to the front of the lever block, spring loaded and operated by a touch of a finger against the incorporated button. Centre piece thus moves outwards, allows lever to spring $\frac{1}{2}$ " up into block, opening brake stirrups. This gives ample clearance for a quick racing tyre change even before the machine is halted. No need for re-adjustment, centre piece automatically springs back the first time the brake is used! This mechanism is neatly hidden by the hood—only the operating button is showing! In addition the BALILLA lever, which can be supplied separately, has three extra improvements.

- ★ Heavily knurled cable adjuster screwed into the lever block, giving no less than $\frac{1}{2}$ " variation in cable length.
- ★ All-round lever hoods in thick long-last translucent rubber with Red and White BALILLA trade mark.
- ★ Strong lever clip $\frac{1}{8}$ " dia. with single fixing screw.

BRAKE BLOCKS AND SHOES

814 All white fitted into light alloy shoes.

862 Red non-slip studded fitted into curved alloy shoes, specially designed to follow the contours of the rim.

TOECLIPS

"Balilla" chrome plated in a new shape to give maximum comfort—two sizes medium and long. Complete with fixing plate, nuts and bolts.

"Cornez" chrome plated. Guaranteed manufactured in tempered steel, the clip is designed to fit the shape of the shoe eliminating the cause so often incurred of feet leaving the pedals.

TOESTRAPs

"Balilla" chrome leather with QR buckle. Available in attractive colours, red, blue, white, green, black.

"Cornez". A really super chrome leather toestrap specially treated to resist wet. Cadmium plated non-rusting and non-slip roller buckle.

The BATAM is the most popular of all push-on adaptors due to its solid brass construction. Used in place of the loose pump connection the BATAM saves valuable seconds being ready for immediate use at any time. Spare rubbers are available if required. Weight $\frac{3}{4}$ oz. (22 gms.).

BATAM PUMP ADAPTOR



Innovation! THE BEBOREX BRAKE

The brake with leverage amplified!

BRAKES

Model "Super" racing—Here is the 5 star brake that is more robust than any you have ever handled before. Made famous by the late STAN OCKERS in the Tour de France and used by KEN RUSSELL during his Tour of Britain success, this brake, made in maximum strength duralumin has features in design that are both different and better.

No other brake has all these Star features:

- ★ **Leverage Amplifier**—the arm B, longer than B1, is actuated by pulling on lever C which rests on arm B1 by the intermediary of the pulley wheel G, so combining the action of the two unequal arms, therefore amplifying the least pressure put on the control lever.
- ★ **Moveable cable stop and tension release**—to give clearance for a buckled wheel or tyre or for a quick racing wheel change, push the barrel T with the thumb into position T1. The brake blocks are thus moved away from the rim without altering the braking efficiency. This change can be effected without dismounting from the cycle.
- ★ **Spring action**—The extra strong double coil spring operates smoothly behind studs incorporated in the brake arms. No snatching due to spring hooks causing wear in the dural arms.
- ★ **Increased adjustment**—The brake block shoe slides are extra long to allow full adjustment to suit both popular rim sizes, enabling the brake to be used for all purposes. Supplied complete with "Racing" dural lever, adjusters and cables.

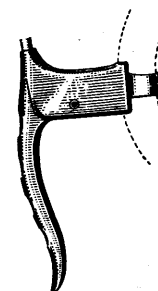
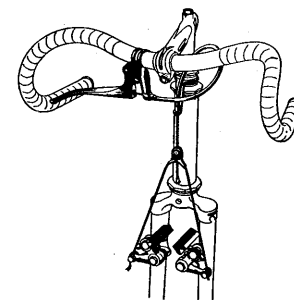
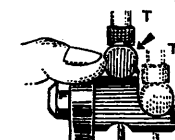
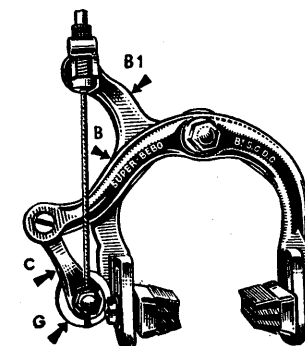
Model "Touring"—Cantilever design to pivot on brazed-on fork pegs. Pivot arms articulate on bronze bushes giving trouble free long life. Brake shoe has full adjustment in all directions. Complete pivoting of all parts of cable attachments. Pivot arms are independently spring loaded, instant cable release allowing free passage of a badly buckled rim and immediate disengaging of the brake. Light in weight. Available with OR without "Touring" Guidonnet levers.

BRAKE LEVERS

"Racing"—beautifully shaped to fit the hand, and in addition has these exclusive features. Extra long top hood rest—Hood top shaped into cable cup—Lever imprinted with knurled finger grips—spring steel clip held with hidden extra strong nut and bolt.

"Touring" Guidonnet lever clips to the centre of the bars and follows the contour of the "tops" enabling the brake to be applied without reaching for the lower grip. Made in pairs, left and right hand to fit any shape of dropped handlebar but is most effective with the "Randonneur" shape.

YOU ARE SURE OF BETTER BRAKING WITH BEBOREX



A comprehensive range of Baggage Elastics to suit the two or four wheeled traveller. Also manufactured in the highest quality by BIBIA are cycle carriers, Toggle Chain Protectors, Dyno Pulley Caps, Goggles and Mudflaps.

BAGGAGE ELASTICS

Eight attractive elastics or binders, made of strong rubber with non-slip hooks. Choose from the following range:

- 44 Single grey rubber binder with two hooks—16" long.
- 701 Single braided round elastic with two hooks—18" long.
- 35 Single grey rubber binder with two hooks—36" long.
- 22 Single grey rubber binder with two hooks—30" long.
- 510 Single braided round tent elastic fitted with coat hooks for the camper.
- 705 4-Branch braided round rubber elastic with hooks—12" long.
- 36 4-Branch grey rubber binder with hooks—8" long.
- 39 6-Branch grey rubber binder with hooks—18" long.

CARRIERS

1000 Chrome plated rear fitting with Ref. 400 Pick-up rubber binders on QR nylon knobs. Strongly made of tubular steel weighing only 18 ozs. Available as a separate item is the 400 pick-up binder.

CHAIN PROTECTOR

220 Plastic Toggle Chain Protector. Made to fit over a hub gear toggle chain and axle nut. Easily fitted.

DYNAMO PULLEY CAPS

71 Moulded rubber serrated ring 15 or 17 mm diameter. To fit all popular pulleys.

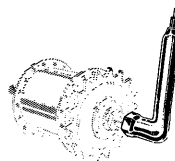
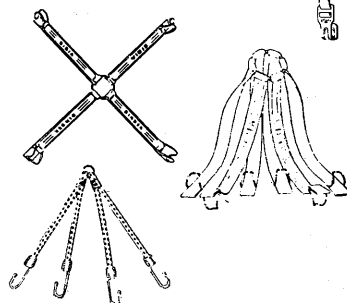
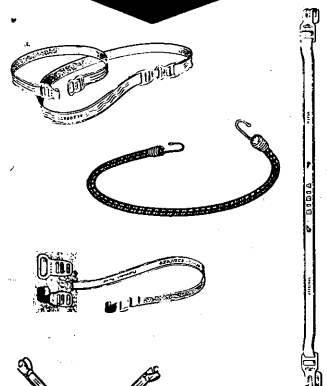
GOGGLES

600 Thick foam rubber with unbreakable plastic glass. Grey with fully adjustable strap. The face plate is eyeleted to avoid misting of the glass.

602 As above but with dark green sun visor fitted.

MUDFLAP

126 Cycle pattern. Made of strong white rubber with two reflectors. Easily fitted to either front or rear mud-guard.



BINDA

TOESTRAPS

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 yellow. Weight 2 ozs. per pair (57 gms.).



Bookelaar

A "NEW" range of Carriers and Baskets. Made of quality Chrome plated tubular wire, each carrier has a strong spring attached to fasten basket or shopping bag. Incorporated into the wire basket is a steel bar which locates into the carrier and eliminates the usual fault of the basket working loose. Also fitted to each basket is a strong wire handle enabling it to be used for shopping.

The carriers have four point fixing. The front on handlebar stem and axle bolt, the rear on fork stays and axle bolt. Supplied complete with fittings.

FRONT CARRIERS

Available for 20" or 26" wheel.

BASKETS

Square—13" x 11" x 7".

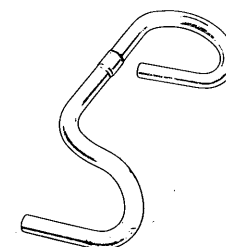
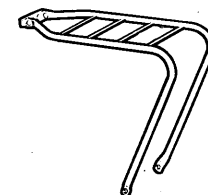
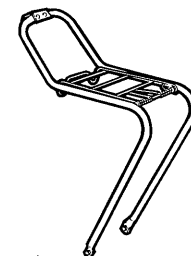
Also available are strong cloth bags which fit into the basket. Made in attractive colours the bags are waterproof with full flap.

REAR CARRIERS

Available for 20" or 26" wheel.

HANDLEBARS AND STEMS

A range of handlebars in chrome steel in all shapes, flat, racing, North Road raised, High Rise, etc. are also available with or without suitable chrome stems.



CHIMIPLAST

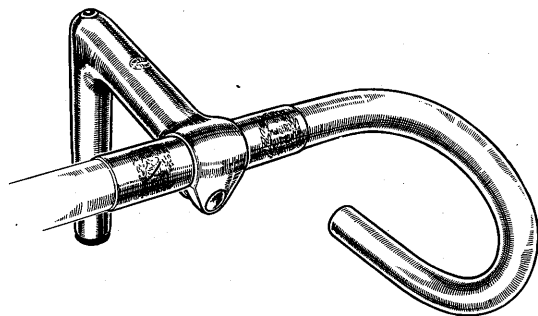
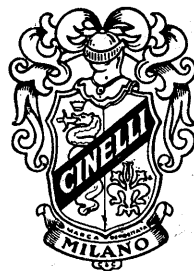
TUBULAR RIM TAPE

"BOYAUPLAST" double sided adhesive. Acclaimed by experts as the finest rim tape available. BOYAUPLAST tapes ensure a perfect adhesion between rim and tubular every time. Each roll has sufficient length to cover one pair of sprint rims. Weight 1½ ozs. per roll (43 gms.).



CINELLI

The Name that is world famous for Cycle Accessories. Designed, tested and proved by CINO CINELLI the man with unrivalled practical knowledge of cycle sport. Produced from top quality materials, CINELLI Accessories are the answer to your search for reliability. Adopted by Champions everywhere.

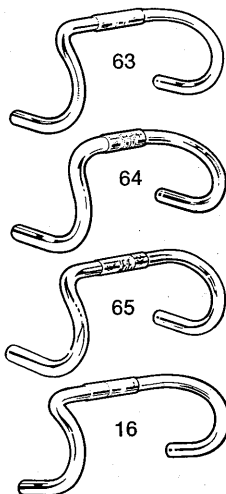


HANDLEBARS

For the rider who prefers the best CINELLI offer a wide range to suit every requirement. Made in either the new "brilliant" finish highly polished dural* or impeccable super chrome steel. Choose from any of the following eight models. For dimensions see TECHNICAL DATA SECTION.

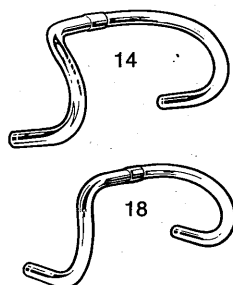
Road Models

- 63 "Campione del Mondo" dural engraved ferrule.
- 64 "Giro d'Italia" dural engraved ferrule.
- 65 "Cinelli" dural engraved ferrule.
- 66 "Campione del Mondo" dural engraved ferrule.
- 16 "Campione del Mondo" chrome plain ferrule.



Track Models

- 14 "Pista" chrome steel plain ferrule.
- 18 "Madison" chrome steel plain ferrule.
- 19 "Madison" chrome steel plain ferrule.



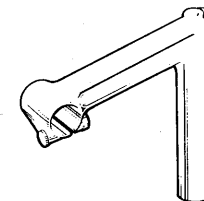
*Standard polished finish available to special order at slightly cheaper prices.

HANDLEBAR STEMS

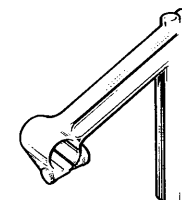
CINELLI Stems are famous for their design and strength, due to the extra wide clip. The same impeccable dural or chrome finishes as on the Handlebars.



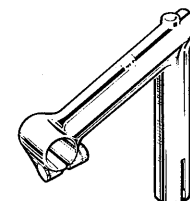
Model 1 Road—Standard type available in plain design or with attractive CINELLI name badge on extension. Highly chromed complete with clip bolt and expander. Plain stem available in sizes 6-14 cms. Badged stem sizes 7-14 cms. 72° angle. Weight 11-13 ozs. (311-368 gms.).



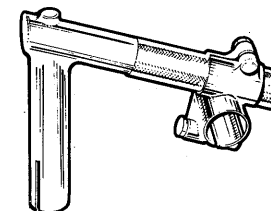
Model 2 Track pattern—As No. 1 but with extension sloping downwards at 65° angle. Also available with or without CINELLI badge. Sizes available 9-14 cms. Weight 11-13 ozs. (311-368 gms.).



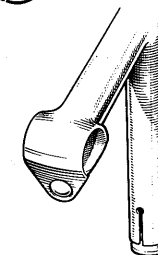
Model 3 Sprint—As Model 2 but with 58° angle.



Model 4 Stayer—Made for the rider requiring a fully adjustable stem. Slider has special knurled finish with maximum of 6½" forward reach, angle 72°. Supplied only with CINELLI name badge.



Model 1/A Dural—A new addition to the CINELLI range of Handlebar Stems. Superb design incorporating "invisible" expander bolt, Allen key fitting. Highly polished forged dural complete with clip bolt and expander. The 7 mm Allen key for expander bolt is available as a separate item. Sizes 8-14 cms. Weight 10-12 ozs. (283-340 gms.).

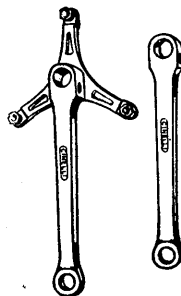
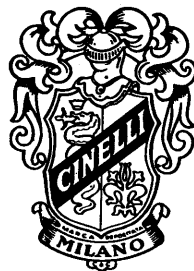


BRACKET FITTINGS

"**Riviera**" Italian size and threaded bracket cups with double axle. All CINELLI adjuster cups have locating holes for peg spanner type adjustment. The fixed cup and lock ring can be easily fitted using a "C" type spanner. Solid axle with ground in bearing surfaces. Cottered pattern only. Weight 11½ ozs. (326 gms.).

"**Corsa**" Similar to above except for hollow axle. Weight 11 ozs. (311 gms.).

"**Super Corsa**" Nickel chrome cups with hollow axle. Weight 11 ozs. (311 gms.).



CRANKS

"**Super Corsa**" Superb highly chromed steel. Fluted square design, 5-pin one length only 6¾". Weight 21 ozs. per pair (594 gms.).

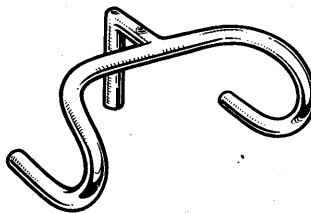
HANDLEBAR END CAPS

Most attractive and very neat these plastic caps are easily fitted over the ends of the bars. Available in red, white or blue.



JUNIOR HANDLEBAR AND STEM SET

Chrome steel "Racing" bars with stem attached. To fit 19 to 22 mm Head tubes. Designed for the youngster who is asking for "racing" bars. Available with or without brazed-on brake levers.



HEAD FITTINGS

"**Riviera**" Specially made for the "RIVIERA" Frame set. Hardened chrome races with easily adjustable top screwed race, fully chromed and attractively designed.

"**Super Corsa**" As above but for "CORSA" and "SUPER CORSA" Frame Sets.

HUBS

"**BIVALENT**" Interchangeable QR Hubs. As the name suggests the wheel will fit either front or rear. It is not "dished" and consequently it is a stronger wheel. A front wheel change is simply a matter of withdrawing the quick Release Skewer, dropping the wheel out, inserting the spare wheel and tightening the skewer. Just that!

A rear wheel change is EXACTLY THE SAME.

The chain and freewheel (and therefore the gear ratios) remain undisturbed the whole time.

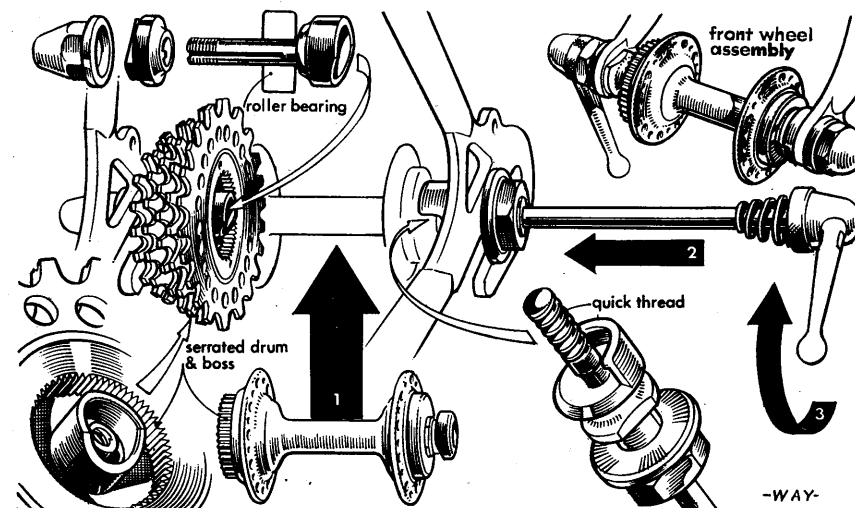
For the rider supported by a service car it is only a question of how soon a spare wheel (and, remember, there cannot be any mistake as to which) may be obtained. For the non-supported rider a tubular can be changed in much less time—particularly a rear!

Initially designed for stage racing (a six-man team needs only six spare wheels) where the advantages are obvious and time saving may be enormous, time trialling may also gain considerably from what may be described as THE ULTIMATE IN QUICK RELEASE HUBS. With the hub shells of duralumin and other materials used of the best quality the CINELLI "BIVALENT" Hubs are a triumph of high precision engineering.

As will be seen from the illustration the new hubs have bosses which locate securely into fixed anchorages. The hubs have hollow spindles and are held in position by separate central skewers. Both front and rear hubs, which are fully interchangeable, carry the multiple-cog block, using popular French or Italian standard sprockets, on extra smooth running splined machined freewheels.

A set comprises two hubs complete with all quick release fittings, anchorages, wheel stop and 5-speed freewheel.

A spare hub shell with hollow axle can also be supplied if required for assembly into a replacement wheel.



REMEMBER—here are the exclusive features of the CINELLI "Bivalent" Hubs—features which cannot be ignored by the modern racing man who insists on the absolute best in equipment.

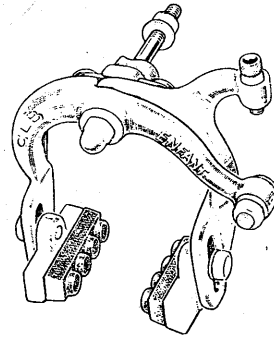
1. Rapid and easy exchange of wheel—only 5 seconds.
2. Rear wheel and front wheel or spare are all interchangeable.
3. Less broken spokes because of the wheels perfect tangency.
4. Rear wheel is not "dished" and is therefore stronger and better balanced.
5. Front wheel offers less wind resistance.
6. Freewheel and chain are not disturbed and therefore gear ratios remain unchanged.
7. Easy replacement of the freewheel.

Introducing a range of Cycle Brakes to suit every requirement. Highly polished dural in design that offers efficiency and robustness with absolute security. Incorporating many new innovations C.L.B. Brakes also offer reliability and economy. Choose from the following range.



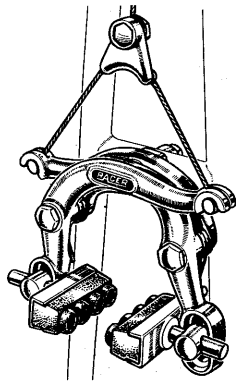
BRAKES (Juvenile)

C2 Enfant—Designed to fit either boys' or girls' cycles. All dural side-pull with adjustable brake shoes. Incorporating quick release adjuster enabling any buckled wheel to be easily removed. Black studded all weather brake blocks. Supplied complete with transmissions and EF CRP 2 levers. (Clip dia. 22 or 23.5 mm). Weight 23 ozs. (651 gms.).

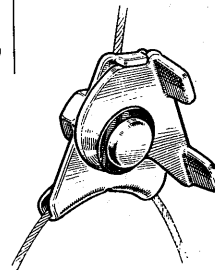
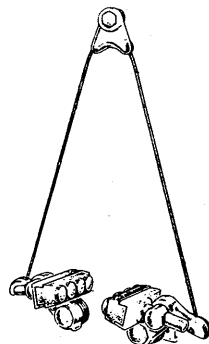


BRAKES (Adult)

RC4 Racer—The popular centre pull model. Two independent springs ensure that the blocks contact the rims at the same time giving maximum braking power. Black studded blocks are fitted into alloy shoes which are fully adjustable to suit any type of rim. The straddle wire is hooked simply over the stirrup arms allowing an easy removal should the wheel have to be replaced. Highly polished with attractive C.L.B. Racer motif on stirrup arm. Supplied complete with transmissions. Cable junctions and hangers and CMC Poli-Luxe hooded racing levers with rubber hoods. Weight 26 ozs. (736 gms.).



CAR 1 Cantil - Racer — Cantilever type brakes. Independently sprung stirrup arms suitable for brazed-on pivots. Ideal for tourist or cyclo cross cyclist. All alloy with a strong tension spring and studded blocks. Extra long straddle cable ensures pannier carrier or saddle bag can be fitted. Supplied complete with transmissions, cable junctions, hangers and brazed-on pivots. With a choice of CMC Hooded Racing Lever with rubber hoods or CMC GUIDONNET Touring Lever. Weight 20 ozs (566 gms.).

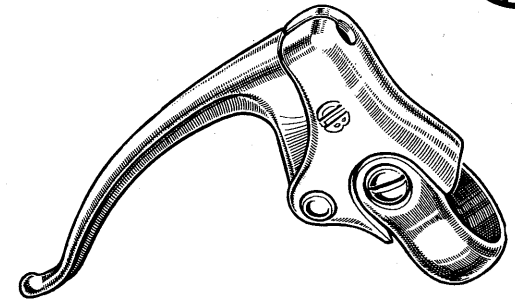


001 New Cable
quick release

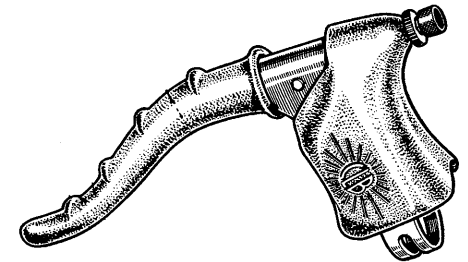
BRAKE LEVERS



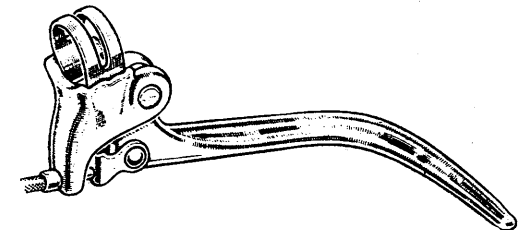
EFC - RP2 ENFANT — Junior racing lever, highly polished alloy to fit Bars dia. 22 or 23.5 mm. Suitable for cables with pear shaped nipples. Weight 2½ ozs. (64 gms.).



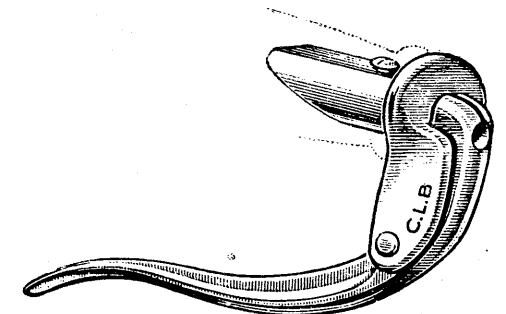
CMC POLI-LUXE—A superb alloy racing lever, supplied complete with brown rubber hood bearing CLB motif and rubber grooved finger grip. Incorporated into the lever block is an alloy cable adjuster. Weight 3½ ozs. (100 gms.).



CMC GUIDONNET—Touring lever designed to follow the contours of the cyclo tourist "Randonneur" type handlebars. All alloy. Available in either right or left hand. Weight 2½ ozs. (71 gms.).



STD 2 STANDARD—Inverted all alloy lever designed to fit into handlebar end 22 or 23.5 mm diameter. Weight 3 ozs. (85 gms.).



For RELIABILITY and VALUE for money— FIT C.L.B.

A superb range of single—double—triple, four trumpet horns. Best quality chrome plating, a fully adjustable non-slip clip, plus a perfect tone every time make CONDOR Horns the finest value available.

BATTERY OPERATED

Chrome siren pattern 3" dia. handlebar fitting. Weight 5½ ozs. (149 gms.).

BULB TYPES

106 Single—8" long. Weight 3½ ozs. (100 gms.).

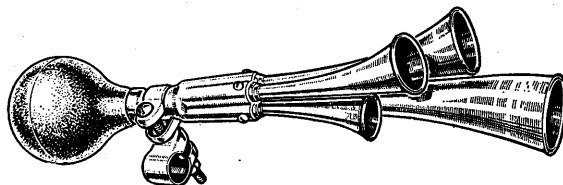
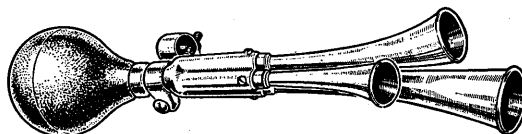
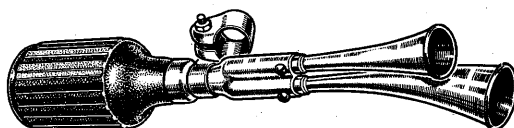
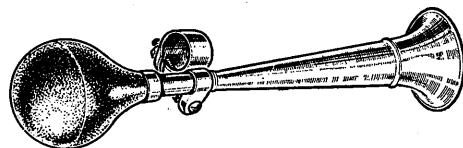
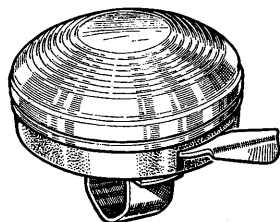
107 Single with bell end—9" long. Weight 4 ozs. (113 gms.).

14 Double note model—10" long. Weight 5 ozs. (142 gms.).

19 Triple note model—12½" long. Weight 8 ozs. (227 gms.).

115 4 Trumpet model—14½" long. Weight 11 ozs. (311 gms.).

CONDOR



CONTINENTAL

CONTINENTAL Tubulars offer a range to suit every purpose. Manufactured in Germany, the home of high-speed motor-paced cycle racing. CONTINENTAL'S have established a reputation for safety, being used by specialists MEIFFRET and KRAMER for their World's paced speed records. Every type is fitted with an exclusive extra strong base tape.

TRACK RACING

STAYER (Pace following tubulars). The only tubulars used with confidence by the Motor Pace Champions—these tyres are 24" x 1½" with special hardwearing treads. Weight 335 gms. **WOOD TRACK** with smooth black tread or **CEMENT TRACK** with matt tread.

WOOD TRACK (Holzbahn 165). A super light tyre weighing only 165 gms. designed primarily for wood tracks, the choice of the leading 6-day racers of Europe. Cold cured with smooth black tread in size 27" x 1".

CEMENT TRACK (Zementbahn 200). A light 200 gms. tyre for hard tracks or that record "25". Black matt tread, light-weight fabric, cold cured in size 27" x 1½".

ROAD RACING

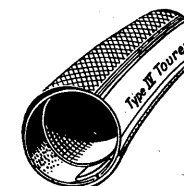
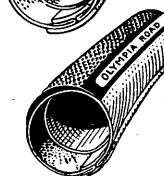
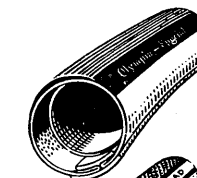
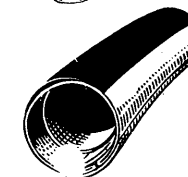
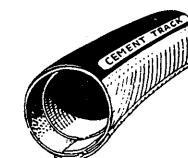
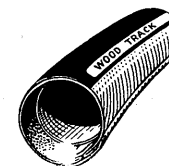
175 (Strasse). Intended for short distance events on good surfaces this tyre is the speedman's delight. Weight only 175 gms. with a matt black tread, lively walls and ultra light inner tube. Hand-sewn—outside cold cured. Size 27" x 1".

320 (Strassen Reinreifen). The perfect tyre for time trials at distances up to 200 miles. A fast black ribbed tread on light fabric walls, hand-sewn this tyre weighs 320 gms.

TOURING

540 Touring (Tourenreifen). A really substantial tubular for all the year round use over all types of road. Steam cured, 27" x 1½", the weight is 19 ozs. (540 gms.), tread of sturdy black rubber in non-skid file pattern, walls fully covered in tough translucent rubber and finished with a strong rim tape. The ideal training and touring tyre for the rider who likes "sprints" all the time and economical too.

REMEMBER—CONTINENTALS have been used successfully by famous road and track aces in all parts of the world.



Another "NEW" RON KITCHING innovation.

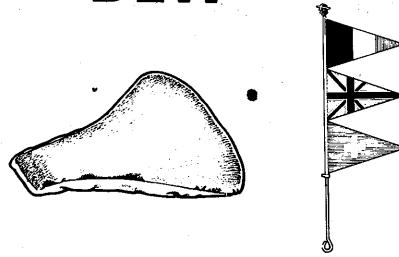
SADDLE COVER

A strong padded plastic cover with elastic tape to ensure a perfect fit to all Roadster saddles.

FLAG STAFF

Made of highly chromed steel wire. Fixing is made to hub axle. 20" long with three flags of various countries. The flag staff top has a small plastic head profile mounted which makes this article even more attractive.

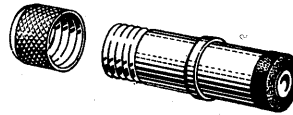
DEW



EHA—ATOM

VALVE INSERTS

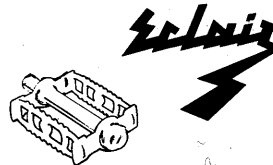
The World's most modern cycle valve. Easily replacing your present valve the E.H.A. will make tyre inflating the easiest of tasks and at the same time give increased security.



PEDALS

No. 2 all steel, chromed, 4" width, double-sided Sports pedals. Made with British threadings, this pedal has full set of ball bearings. A full range of spares always available. Weight 13 ozs. pair (368 gms.).

No. 11—as No. 2 but with two barrel to cage support struts.



The original and still the best FIFON Rivet Extractors and spoke nipple keys are light in weight and will not rust. They should be in every cyclist tool kit.

CHAIN RIVET EXTRACTORS

No. 1 the Original Bronze Extractor. It will remove or refit either $\frac{1}{8}$ " or $\frac{3}{32}$ " chain rivets easily. The hardened steel punches can be replaced at any time. No. 1 pattern is only 2" long. The handle incorporates a spanner and can be fitted into a vice if required. Weight 2½ ozs. (64 gms.).

No. 2. This model is slightly longer 3½" giving a good hand-grip for roadside repairs. Weight 3½ ozs. (100 gms.).

No. 3. A robust extractor for $\frac{1}{8}$ " or $\frac{3}{32}$ " chains only.

No. 4. Compact yet strong for Moped chains only.

FREEWHEEL REMOVERS

No. 1 6 mm Hexagonal for Junior freewheels.

No. 2 7 mm Hexagonal for QR freewheels.

No. 3 6 mm Hexagonal for Standard freewheels.

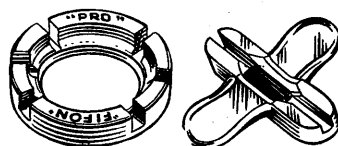
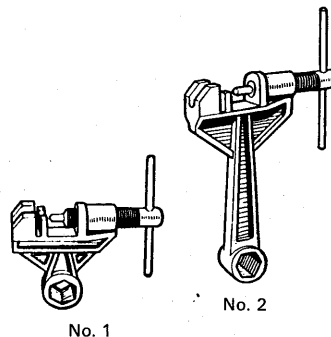
No. 4 5.5 mm Round for Moped freewheels.

SPOKE NIPPLE KEYS

BRONZE—this pattern is light only 1 oz. in weight and fits two popular sizes of cycle nipple. The two flats give a positive grip to finger and thumb.

PROFESSIONAL—extra strong round pattern made of cadmium plated steel. Six sizes to fit popular sizes of nipples. $\frac{1}{2}$ " dia. Weight 1½ ozs. (36 gms.).

FIFON TOOLS



GIAN ROBERT

Since their introduction by RON KITCHING, GIAN ROBERT Gears have gone from strength to strength. Now used by top amateurs and Professionals in all aspects of cycle sport, this derailleur gearing is different and better. Look for these special features:

REAR GEARS

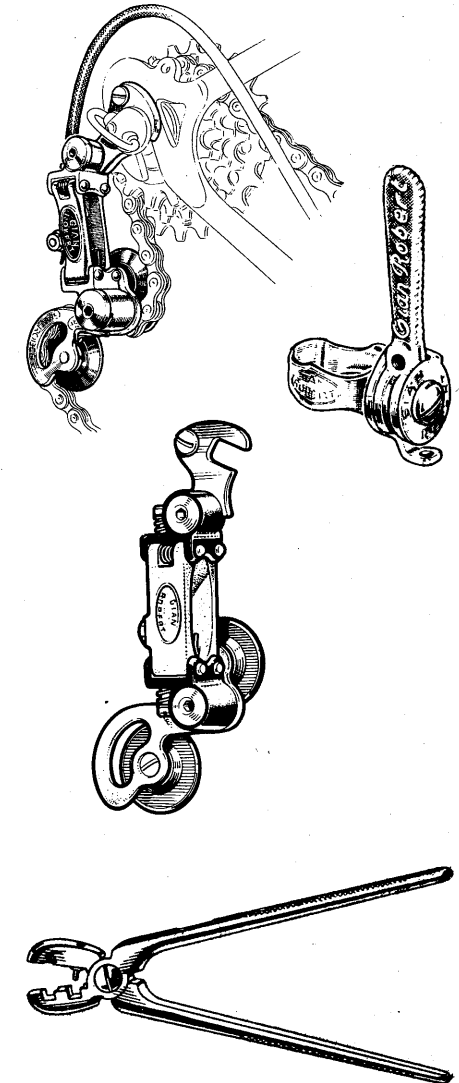
- ★ Improved wrap-round giving a much quicker change with less movement required on the control lever.
- ★ Popular deformable parallelogram design. Smaller and neater than other makes.
- ★ Unobtrusive spring loaded adjustment screws allowing a full range of variation of speeds and sprocket sizes.
- ★ New improved design.
- ★ Powerful return springs.
- ★ Ultra light weight but very strong.

CAMPIONE MODEL. Super all chrome gear with nylon rollers, pivot bolts adjusted by Allen Key. Lever is also in chrome with the exception of the Banjo which is highly polished alloy. Range 13 to 32 teeth. Weight 12½ ozs. complete (347 gms.).

DELYRN MODEL. New re-designed Delryn-steel gear. The parallelogram is made of black delryn tested to ensure only the hardest maltreatment will break it. The nylon rollers are fitted between chrome plated guides. A gear with good looks and designed for long life. Weight 10½ ozs. complete (291 gms.).

CHAIN PLIERS. These handy pliers, strongly made and superbly finished in heavy chrome plate are standard equipment of all "Tour" mechanics. This tool will easily and quickly remove or refit cycle chain rivets. Spare punches are available.

GIAN ROBERT GEARS ARE SUPPORTED WITH COMPLETE SPARES SERVICE.



DYNAMO PULLEY COVER

This neat moulded rubber all over cap is available in two sizes and in all popular colours. It has a deep serration to give a sure grip to the pulley wheel in wet or snowy weather; saves replacing a worn pulley wheel—essential to all dynamo users.

HANDLEBAR TAPE

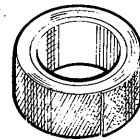
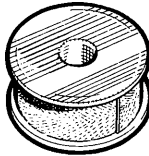
"GUIDEOL"—twill pattern that provides a good non-slip grip. A full five yard roll and $\frac{3}{4}$ " wide in attractive colours. Black, white, red, yellow, green, blue makes this tape good value for its price.

"TRESSOLUX"—Superb quality twill tape. A full selection of attractive colours are available. Acclaimed by top cyclists everywhere as the best. TRESSOLUX tape has a herringbone pattern and is guaranteed non-fray.

TUBULAR TYRE THREAD

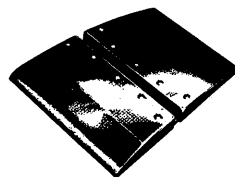
An essential item for those who prefer to repair their own tubulars. Extra strong thread supplied with needle.

GUTTACOL



SHOE PLATES

A new idea in shoe plates. Made of a composition material in two parts, joined by a strong steel plate. One slot 4 mm deep tapering to form a perfect joint with the shoe sole ensures that no difficulty arises in locating the plate on to the pedal side plate.

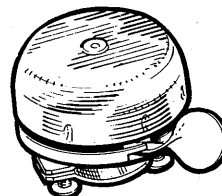
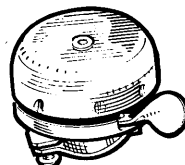


HECTOR MARTIN

NEW—Two of the finest quality Cycle Bells. Made of first-class materials—Superb chrome domes—full rotary mechanism—UNIVERSAL clips to suit $\frac{1}{2}$ " to $\frac{1}{8}$ " bars.

JUVENILE— $1\frac{3}{4}$ " dia. dome with clip. Weight 3 ozs. (85 gms.).

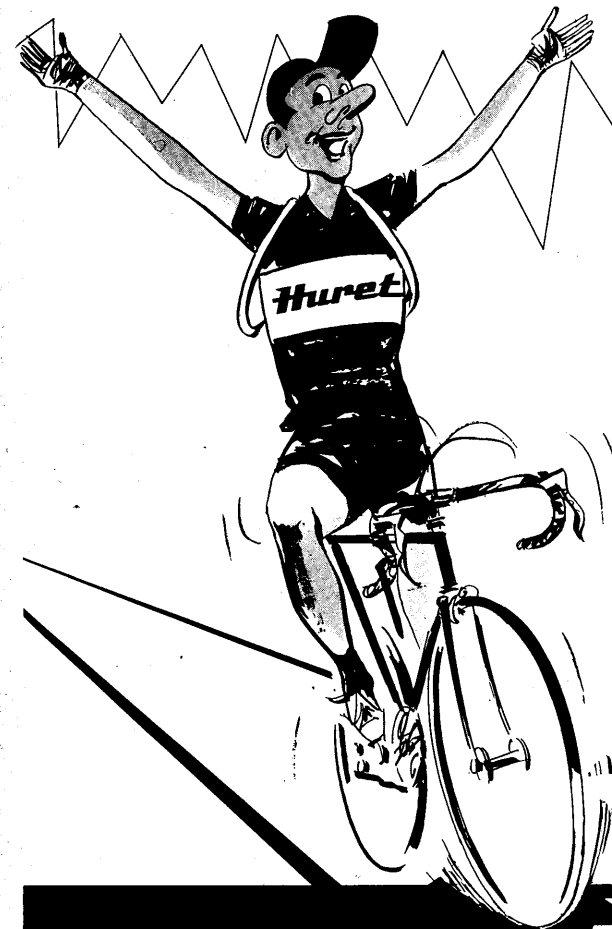
STANDARD— $2\frac{1}{4}$ " dia. dome with clip. Weight $4\frac{1}{4}$ ozs. (121 gms.).



HETA



Probably the first name you think of when choosing a gear. Only HURET can offer such a wide choice at prices to suit any pocket. This firm has a world wide reputation for quality products. Up to the minute design, race proved performance, full servicing, and above all economy.

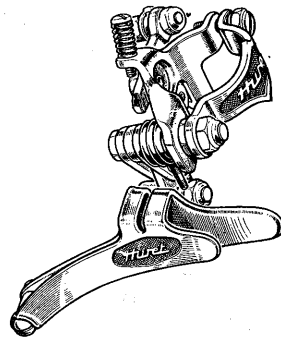


Each article is made of quality material and has an immaculate finish. Of top quality chrome, light in weight, yet strong. Whether you are a Clubman Tourist or Racing cyclist, HURET has a gear to suit your requirements. Choose from the following range.

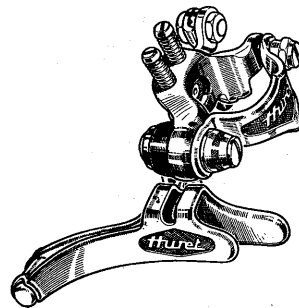
Huret

FRONT CHANGERS

600 Svelto—Cable operated parallelogram action suitable for $\frac{1}{8}$ " or $\frac{3}{32}$ " chain, for double or triple chainwheel with large or small tooth variations. Designed to allow the fitting of a pump behind the seat tube. Capacity 36 to 52 teeth. Complete with L.H. lever (641) cable and outer casing. Weight 8 ozs. (227 gms.).

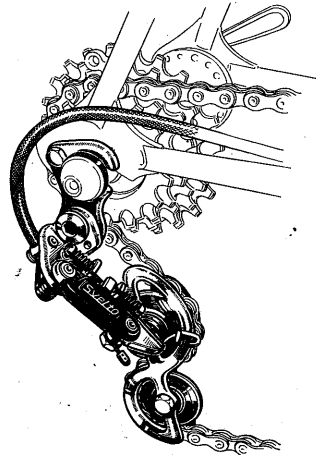


700 Luxe — Cable operated "Luxury" changer. Simple in design but big in performance. A positive gear change is assured every time. Incorporated into the changer is a nylon covered tension spring — another new HURET innovation. Capacity 30 to 55 teeth, complete with L.H. lever (2154), cable and outer casing. Weight 9 ozs. (255 gms.).



GEARS—REAR

• **2000D Svelto**—Of simple construction it has now replaced the "Old Fashioned" Tour de France gear. Made entirely from steel plates the parallelogram body pivots between two dead stops on the hanger bracket. A powerful spring controls side movement over 3- to 6-speed freewheels limited by spring loaded screws adjusted easily on the front plate suitable for $\frac{1}{8}$ " or $\frac{3}{32}$ " gears. A well spaced roller cage plus a double coil spring allows a capacity of 32 teeth. Complete with R.H. lever (1884), cable and outer casing. Weight 11½ ozs. (326 gms.).



GEARS—REAR

1900 Allvit—A low cost parallelogram action gear having the performance and versatility of higher priced counterparts. This gear is different and better with the derailing cage rising to engage the smaller sprockets and falling along the contours of the freewheel to easily engage the larger low gear sprockets. Exceptional range allowing variation of 15 teeth on freewheel and 13 teeth on chainring. Suitable for 3, 4 and 5-speeds and $\frac{1}{8}$ " or $\frac{3}{32}$ " freewheel. Chain tension is easily accomplished by hand and any small screwdriver will effect a quick adjustment of the check screws. The design enables full wrap of the chain over the sprocket and eliminates any jump or slip. Complete with R.H. lever (1884), cable and outer casing. Weight 14½ ozs. (410 gms.).

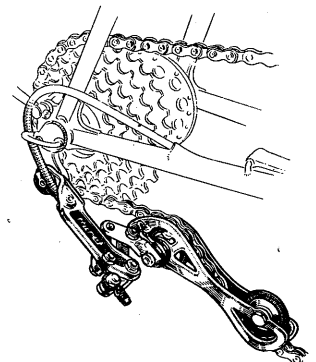
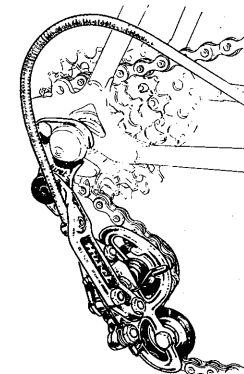
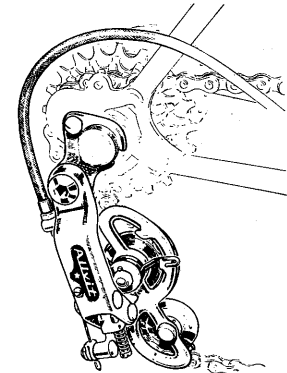
2100C Competition—A superb all chrome gear—new in design, incorporating all the latest features. Nylon rollers—easy side adjustment—improved cable securing bolt. Easy to clean. Capacity 13 to 24 teeth. Complete with R.H. lever (2153), cable and outer casing. Weight 14½ ozs. (410 gms.).

2100T Touring—Similar to Model 2100C but with a capacity of 13 to 30 teeth. Weight 13½ ozs. (382 gms.).

2100ST Super Touring—At last a gear designed to suit the needs of the tourist who likes to use the largest freewheel cog and the small chainring. Basically the same gear as the model 2100C but with extra long roller side plates. Measuring $3\frac{1}{4}$ " apart the rollers allow the maximum wrap over on freewheel cog and front chainwheel. With this gear chainwheel sizes 26 to 52 teeth and freewheel sizes, 13 to 30 teeth can be used. Complete with R.H. lever (2153), cable and outer casing. Weight 13½ ozs. (382 gms.).

GEAR ENSEMBLES

2060 Svelto—comprising 600 front changer with 2000 rear gear. Double lever 1882.
1960 Allvit—comprising 600 front changer with 1900 rear gear. Double lever 1882.
2100C Competition—comprising 700 front changer with 2100 rear gear. Double lever 2150.
2100T Touring—comprising 700 front changer with 2100T rear gear. Double lever 2150.
2100ST Super Touring—comprising 700 front changer with 2100ST rear gear. Double lever 2150.



GEAR LEVERS

- 641 Svelto single DT LH Lever.
Weight 2½ ozs. (78 gms.).
- 2154 Luxe single DT LH Lever.
Weight 3 ozs. (85 gms.).
- 1884 Svelto single DT RH Lever.
Weight 2½ ozs. (78 gms.).
- 2153 Luxe single DT RH Lever.
Weight 3 ozs. (85 gms.).
- 1882 Svelto double DT RH Lever.
Weight 4½ ozs. (128 gms.).
- 2150 Luxe double DT RH Lever.
Weight 4½ ozs. (128 gms.).
- 2300 Luxe RH Single HB control
with Lever rubber and 2 mm
cable. Weight 3 ozs. (85
gms.).
- 2301 Luxe LH Single HB control
with Lever rubber and 1.25
mm cable. Weight 3 ozs.
(85 gms.).

CLIPS—TUNNELS—STOPS

- 188 Chrome plated top tube
cable clip—screw fixing.
Weight ½ oz. (15 gms.).
- 194 Chrome plated chainstay
cable stop—screw fixing.
Weight ½ oz. (15 gms.).
- 1846 Chrome plated down tube
tunnel for rear gear and
single stop for front
changer screw fixing.
Weight ¾ oz. (22 gms.).
- 1843 Chrome plated single down
tube tunnel—screw fixing.
Weight ¾ oz. (22 gms.).

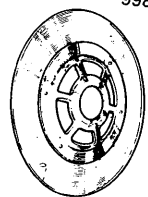
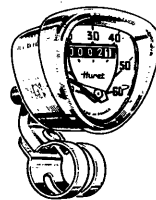
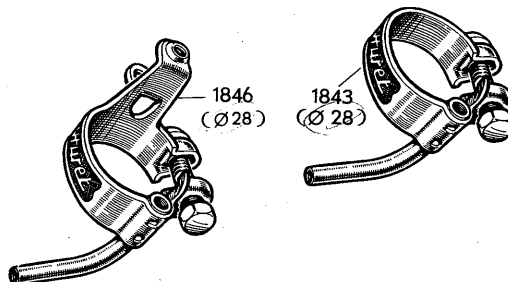
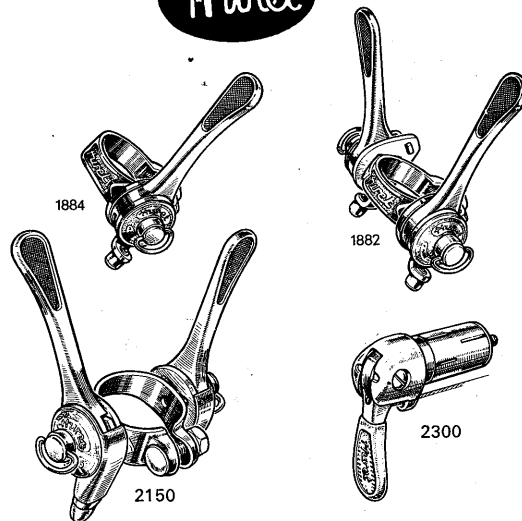
SPEEDOMETERS

For all bicycles and mopeds.
Triangular dial with milometer,
handlebar fitting. Robust car type
transmission cable, waterproof,
self centring driving gear with
left or right hand fitting. Reduction
bushes to fit $\frac{1}{16}$ ", $\frac{3}{16}$ " or $\frac{1}{8}$ "
spindles included. Available in
the following sizes:

- MT 23 Moped.
- MT 24 Junior cycle 24" wheel.
- MT 26 Roadster cycle 26"
wheel.
- MT 27 Sports cycle 27" wheel.
- MT 16 Moulton cycle 16"
wheel.
- MT 16R Raleigh RSW cycle
16" wheel.

SPOKE DISC

998. 7½" dia. disc with inner
alloy disc onto which a larger
alloy flange is riveted. Weight 2
ozs. (57 gms.).



WING NUTS

De Luxe (set of 4). Chrome or
bronze. Wing nut pattern with
serrated cone to ensure a firm
grip. Weight 2½ ozs. per set (78
gms.).

For 80 years now since 1890
IDEALE have been acknowledged
as one of the world's premier
cycle saddle manufacturers. To-
day their high standards of pro-
duction allied to quality materials
and modern design are producing
leather saddles which are recognised as without equal, a fact proved by the recommendation
of the top "Tour" riders ANQUETIL, JANSSEN and many others who still believe that quality
leather saddles of IDEALE standards are the best for long distance stage racing.

More and more of Britain's popular lightweight cycles are being fitted with IDEALE—proof
that the manufacturers realise the importance of using a quality leather saddle even on
cheaper machines.

Remember every IDEALE saddle has some exclusive patented features that are not only
"ideale" but are not available on other makes.

Sports Leather Saddles Complete with Clip

115.78.10
39 Norex. Cut away nose, per-
forated side flaps, fitted bag
loops. The strong 2-wire frame
has the No. 2 fully adjustable clip
fitted. A saddle which incor-
porates quality with economy.
Size: 10" x 5½". Weight: 20½
ozs. (580 gms.).

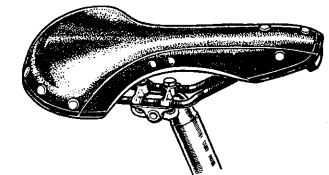
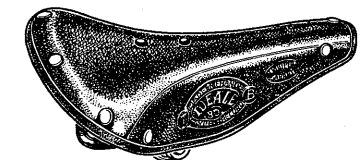
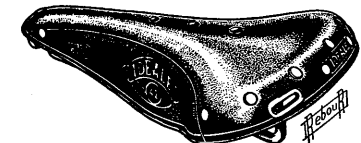
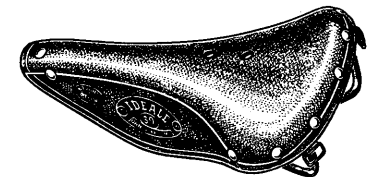
42 Ideale. Similar in speci-
fication to 39 but larger and with
best quality butt hide top. A
saddle that will have a long life
and due to its shape will give
extra comfort.
Size: 10½" x 6". Weight: 22 ozs.
(622 gms.).

115.60.
80 Record. Special unique
"saddle-back" shape with cam-
bered back plate and cut-away
leather. Extra quality top riveted
to strong 2-wire steel frame with
No. 2 clip. A medium priced all-
purpose sports saddle.
Size: 10½" x 5½". Weight: 24
ozs. (679 gms.).

80 Speciale. A professional
saddle, similar to 80 Record but
with a specially tanned butt hide
top waterproofed and fitted to
treated steel frame. Complete
with No. 2 clip. Size and weight
as above.

80 Criterium. Similar in quality
to the 80 Speciale but with short
nose, copper rivets and cut-away
"swallow" flaps. An old favourite
modernised.
Size: 10½" x 5½". Weight: 23
ozs. (650 gms.).

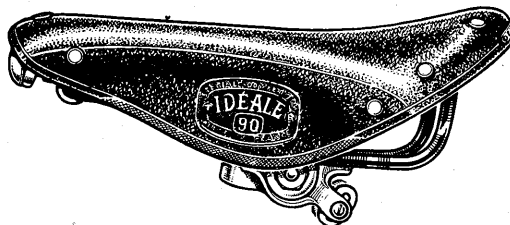
IDEALE



90A Speciale Competition.

Extra supple, fully waterproofed, treated and matured, oak bark tanned top riveted with large headed solid copper rivets to a highly finished 2-wire (38 mm) chrome steel frame of high tensile steel. Fitted with a patented nose tension, easily adjusted by spanner or tommy bar, reinforced and shrouded with a neat cap. Complete with No. 2 clip.

Size: $10\frac{1}{2}'' \times 5\frac{3}{4}''$. Weight. 25 ozs. (708 gms.).

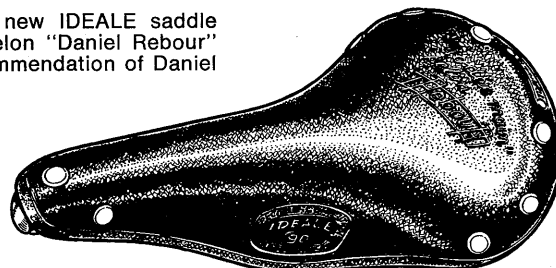


90A 172, 10 Speciale

And now a remarkable new production—a brand new saddle—ready for riding. For the very first time the makers of IDEALE saddles offer to their customers a saddle which needs no "breaking-in".

Stamped in the leather top of this new IDEALE saddle is the endorsement *RODEE MAIN* Selon "Daniel Rebour" (Hand treated according to the recommendation of Daniel Rebour).

"rodee main" selon Rebour



The treatment recommended by the experienced French cycle technician Daniel Rebour cuts out the need for a long and sometimes painful breaking-in period.

The suppling is done for you in the factory before the leather top is fitted to the frame and is the equivalent of many miles of riding without the chance of the top becoming mis-shapen. No ordinary usage, however intensive, could produce such a suppling of every part of the leather top: do not worry if it does not look new, the treatment may cause a few wrinkles but the quality and strength of the leather are unimpaired.

This treatment is available at an extra charge on two types of racing saddle—the No. 90 Speciale Competition with either steel or-alloy frame.

You will be surprised at the INSTANT COMFORT which this new, broken-in saddle will give, whether fitted for a long tour or for a race.

PAUL DELAY, Chief Mechanic of the Tour de France for 33 years, Olympic Games, World Championships etc. says with approval

"At last—a first class leather saddle that can be ridden right away! I am sure that cyclists everywhere, racing men and tourists alike, will appreciate this new No. 90 saddle—ready broken-in."

90CR SPECIALE COMPETITION

As No. 90A but with *RODEE MAIN* top (Rebour treated) and fitted with special No. 3 all-positions micro-adjusting clip.

Size: $10\frac{1}{2}'' \times 5\frac{3}{4}''$. Weight: $17\frac{1}{2}$ ozs. (496 gms.).

IDEALE

IDEALE

501R SPECIALE COMPETITION

As No. 90CR with *RODEE MAIN* top but with all alloy frame and light alloy all-positions clip making this the **lightest leather saddle in the world.**

Size: $10\frac{1}{2}'' \times 5\frac{3}{4}''$. Weight: $17\frac{1}{2}$ ozs. (496 gms.).

NEVER BEFORE HAVE SO MANY REFINEMENTS BEEN AVAILABLE IN A BRAND NEW SADDLE.

Note:—The Speciale Competition models 90A, 90CR and 901R can be supplied without clips. Models 90A and 90CR without clips will fit the NITOR 1963, CAMPAGNOLO 1044 or the ZEUS Criterium seat pillars and the 901R will fit the ZEUS Ideale seat pillar, the latter making a very light combination.

JUVENILE LEATHER SADDLE

27 Racing. To meet the current demand for a scaled down version of an adult racing saddle this model looks perfect on junior sports cycles. Produced as always by IDEALE, up to a standard and not down to a price.

SADDLE CLIPS

The three IDEALE saddle clips are all available separately if required.

No. 2. Standard 38 mm 2-wire clip in chrome steel with a reinforcing liner.

No. 3. As fitted to the Speciale Competition saddle this clip overcomes the problem of adjusting saddle incline to fine limits.

Fine serrations permit exact adjustment but with risk of movement—pronounced serrations do not give precise positioning—however the IDEALE SC clip has the answer.

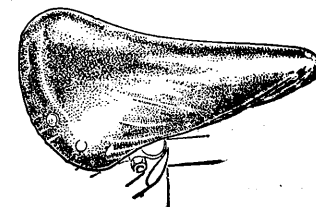
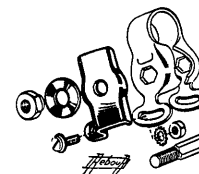
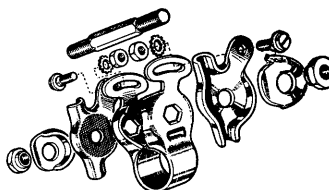
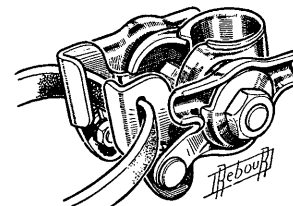
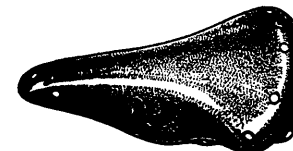
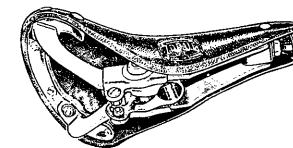
The clip has the serrated surfaces only lightly knurled and separated by a semi-pliant washer. After fitting to the pillar, lightly tighten the usual axle nuts, adjust to the required position, then strongly tighten the axle nuts and also the two smaller securing nuts and bolts the latter prevents any movement or altering of position. To remove the saddle from the pillar, loosen the two main axle nuts leaving the security nuts tightened, conserving the position exactly for when the saddle is re-fitted.

No. 4. As No. 3 but in all light alloy to fit the alloy girder framed 90CR saddle only.

SADDLE COVER

The IDEALE cover is made in translucent plastic with elasticated edge and will fit all models of sports saddles. It will protect your saddle top from the weather and your trouser seat from contact with greasy leather and at the same time give no hindrance to pedalling action.

Remember IDEALE products have been famous since 1890—a recommendation in itself.



Made in one of the World's most modern chain factories each IRIS cycle chain is assembled with special thick pins to give longer life, is liberally greased, wrapped in a seal-proof plastic packet and individually boxed in an attractive carton. Although offered at competitive prices IRIS Chains have a quality that guarantees satisfaction.

Standard Model:

$\frac{1}{2} \times \frac{1}{8}$ " 114 links—weight 14 $\frac{3}{4}$ ozs. (419 gms.).

Racing Model:

$\frac{1}{2} \times \frac{3}{32}$ " 114 links—weight 13 $\frac{3}{4}$ ozs. (389 gms.).

IRIS



TUBULAR RIM TAPE

Double sided adhesive, each roll has sufficient length for one pair of Rims. Weight 1 $\frac{1}{2}$ ozs. per roll.



JANTEX

INTRODUCING



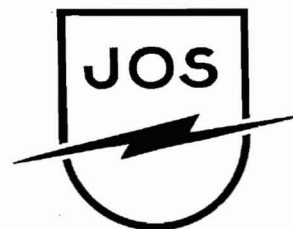
Cycle
Lighting

"Lightest in the World" Cycle Dynamo Sets. JOS Lighting sets are the result of the most practical research into cyclists' Lighting requirements. The Sets combine working dependability, mechanical soundness and high efficiency with originality of presentation. Made of ultra-light non-rusting duralumin of high resistance they offer a considerable saving in weight compared with other types. These features are most important to the all-the-year-round cyclist.

HEADLAMPS—Dural

Special 9 Star features:

- ★ Brilliant mirror reflectors, non-deteriorating.
- ★ Unbreakable perspex glass.
- ★ Anti dazzle built in visors.
- ★ Automatic quick release glass fixing clip (except on 430 and 431).
- ★ Easily removable bulb holders.
- ★ Aerodynamic streamlined design.
- ★ Supplied with either mudguard or lamp bracket attachment.
- ★ Security finger locking terminal screws on 430 and 431.
- ★ Superb polished finish in chrominox alloy.



ULTRA LIGHT LIGHTING FOR CYCLES

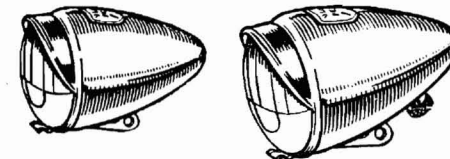
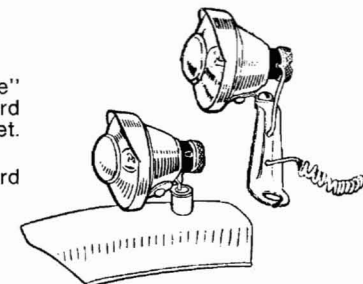
HEADLAMPS—Dural

430C—43 mm (1 $\frac{3}{4}$ ") Diameter. Magnified "Bulls Eye" glass. Universal fixing stay permitting easy fitting to guard eye, brake bolt, stem bolt or front fork dyno bracket. Weight 1 oz. (28 gms.).

431C. As above but with stud fitting for front mudguard attachment. Weight 1 oz. (28 gms.).

513CV—50 mm (2") Diameter. Anti dazzle built-in visor. Choice of colours—red, blue, green, gold or plain polished. Weight 3 ozs. (85 gms.).

663CV—65 mm (2 $\frac{5}{8}$ ") Diameter. Anti dazzle built-in visor. Colours as 513CV. Weight 3 ozs. (85 gms.).

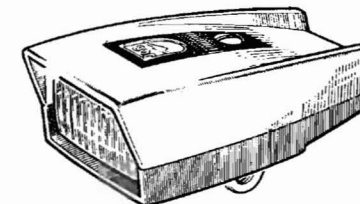


HEADLAMPS—Plastic

5033L. New squared Plastic lamp (45×30 mm) (1 $\frac{3}{4}$ ×1 $\frac{1}{8}$ "), with highly polished alloy cover bearing the attractive JOS motif. Weight 3 ozs. (85 gms.).

6342L. Similar to 5033L but with slightly larger glass (55×35 mm) (2 $\frac{1}{4}$ ×1 $\frac{1}{4}$ "). Weight 3 $\frac{1}{2}$ ozs. (92 gms.).

ALL JOS HEADLAMPS HAVE CHOICE OF GT—PG—PL BRACKETS.

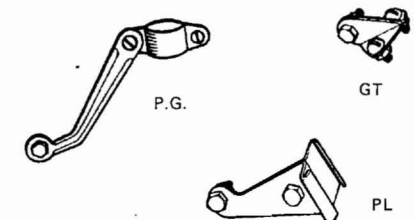


HEADLAMP BRACKETS

PL. Standard English type lamp attachment fitted as standard to all headlamps except 430 and 431.

GT. Mudguard attachment fitted as alternative to PL if required.

P.G. Handlebar stem type supplied if required at small extra cost.



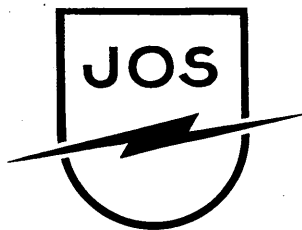
DYNAMO SETS (Less Rear Lamp) complete with headlamp and dyno brackets and long AR cable.

513CV—P8—50 mm (2") diameter 513CV headlamp complete with model P8 dynamo unit (see specification below). Weight 11 ozs. (311 gms.).

663CV—P8—65 mm (2 $\frac{5}{8}$ ") diameter 663CV headlamp with model P8 dynamo unit. Weight 11 ozs. (311 gms.).

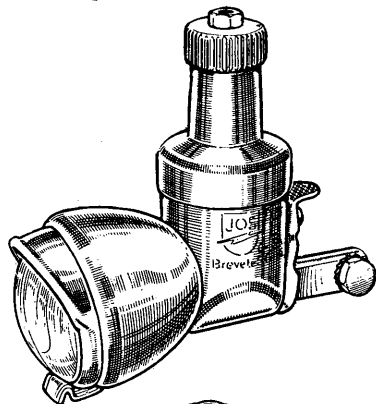
5033L—P8—Square 5033L headlamp with P8 dynamo unit. Weight 11 ozs. (311 gms.).

6342L—P8—Square 6342L headlamp with P8 dynamo unit. Weight 11 $\frac{1}{4}$ ozs. (326 gms.). When ordering please specify type of dynamo fitting clip.



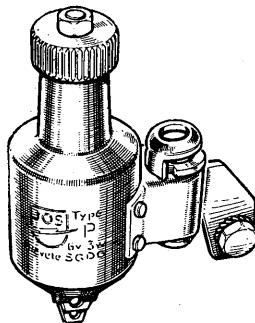
• DYNAMO WITH HEADLAMP ATTACHED

B504CV. This popular club riders set consists of Type B dynamo with 513CV visored headlamp 50 mm (2" dia.) attached in one unit. The support axle is extended forward so as to avoid any interference with the brake blocks. 6v 3 watts supplied with BN fork fitting clip. Weight 8½ ozs. (241 gms.).



DYNAMO ONLY

P8. Made in chrominox treated non-rusting alloy. The dynamo body of 34 mm diameter is treated by anodic oxidation and is guaranteed against any change in finish. The JOS method of articulation on vertical axle used with push button spring release is exclusive and ensures a smooth pulley drive under all atmospheric conditions, rain, snow, frost, etc. Supplied with either BF—BN or BH fitting clip.



DYNAMO SUPPORTS

Special design ensures a correct position for the dynamo and avoids any possibility of movement. Special oxidised finish gives protection and good appearance. Types BF and BH have built-in earthing screws.

BF. Front fork bracket supplied with B504CV dynamo-bloc set.

BN. Roadster rear stay bracket supplied only on request.

BH. Rear pencil stay bracket supplied with P8 dynamo unless requested otherwise.



BF



BN



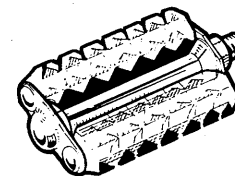
BH

All JOS Dynamo Units are stamped with the bulb reference and carry a guarantee of 3 years. Full range of spares are available in Great Britain with prompt servicing facilities.

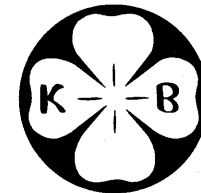
Suitable BS approved rear lamps are available with JOS sets as extras. (See Price List.)

PEDALS

No. 24. Gents Diamond Rubber Pedals 4" wide, made in British dimensions. Fully adjustable with ball bearings. The axle has an Allen Key recess which will allow easy fitting or removal should a pedal spanner not be readily available. An attractive press-on cap completes this strong reliable pedal. Available with black rubbers only. Weight 20½ ozs. per pair (587 gms.).



K.B.

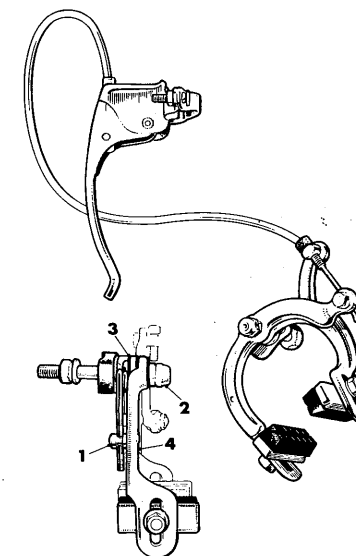


Quality Cycle Brakes expertly designed. Suitable for all types of sports cycles at economical prices.

LAM

BRAKES

Model 59/77. Side-pull caliper action. Finest chrome steel stirrups fitted with strong tension spring and non-slip black rubber brake blocks. The brake shoe which will adjust over a 1" variation of depth is suitable for most sizes of cycles. Cable tension is easily obtained with the adjuster fitted to the stirrup arm, or with the cable fixing eye bolt. The fork seating pad is made of tough plastic and is serrated to ensure an "even pull" when the brake is fitted. Complete with transmissions and a choice of 3 levers. Weight 24 ozs. per pair. (679 gms.).



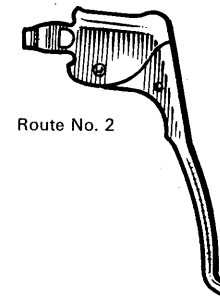
BRAKE LEVERS

Route No. 2. Chrome complete with clip. Designed to fit the contours of popular "flat" bars. Weight 3 ozs. (85 gms.).

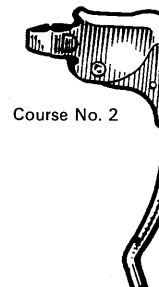
Course No. 2. Chrome complete with clip, curved lever blade and suitable for all shapes of racing bars. Weight 3 ozs. (85 gms.).

Inverted. Dural lever designed to fit into the end of the bars. Fitted easily and secured by a single screw. Weight 3 ozs. (85 gms.).

Note: All LAM levers are designed to use the more popular Pear shaped nipple. For economy and Reliability—Fit LAM Brakes.



Route No. 2



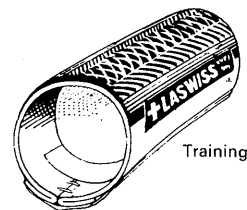
Course No. 2

TUBULAR Tyres of the finest quality. Compare materials or construction with any other make and you will realise you cannot afford to miss **LASWISS**—the lowest weights—the lowest prices—the highest quality. Whichever way you look at them **LASWISS** Tubulars look good and are good.

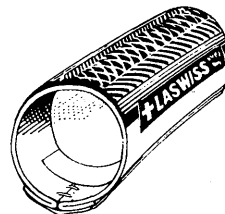
TRAINING—Mixed tread, ideal for training or touring. Narrow section, superb quality rubber with vulcanised cotton base tape. Weight 12½ ozs. (354 gms.).

DEBUTANT—Mixed tread, the tubular for short-time trials and most types of massed start races. Unbelievable quality — narrow section—quality rubber with vulcanised base tape. Weight 10 ozs. (283 gms.).

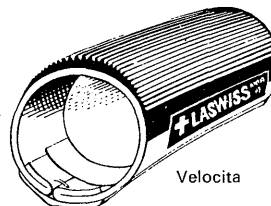
VELOCITA—Fine ribbed tread for short distance time trials and massed start racing. Compare this tubular with one double in price and you will see just how superb it is. The **VELOCITA** also has a narrow section with a vulcanised base tape. Weight 9½ ozs. (276 gms.).



Training



Debutant



Velocita

REMEMBER—**LASWISS** Tubulars are backed by a full after sales service.

LASWISS

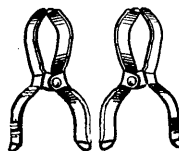


PUMP CLIPS

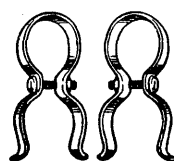
Two models of Popular Quick Fit Pump Clips to suit any pump. Light in weight and practical in use.

LE RAPID—Spring loaded two-way clip, plastic covered in attractive colours on chrome. Weight 1 oz. per pair. (28 gms.).

LETUCE—One-piece clip with open spring end, chrome plated but covered in protective coloured plastic. Weight 1 oz. per pair. (28 gms.).



Le Rapid



Letuce

Top quality bracket and head fittings. Made from specially treated chrome nickel steel and available in British or Continental sizes.

BRACKET FITTINGS

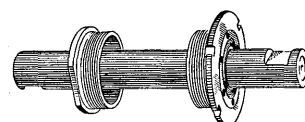
Choice of two models and both available in 3 lengths of axle 128 mm for single, 130 mm for double and 132 mm for triple.

G.M.A.—chrome plated cups and lock ring with a solid axle. Weight 10 ozs. (283 gms.).

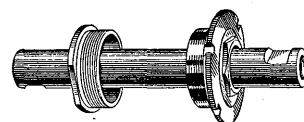
LELEGE—as G.M.A. except this set is supplied with a fully **hollowed** axle specially strengthened. Weight 8 ozs. (227 gms.).

HEAD FITTINGS

COURSE—extra light, chrome micro-adjusting races specially ground and hardened in finest nickel chrome steel. British or Continental dimensions. Weight 5 ozs. (142 gms.).



G.M.A.



Lelege

Course



LIGHTRACE

BRAKE BLOCKS

A complete range designed to overcome your braking problems. Six models ensure the right block for use with either steel rims (white blocks) or alloy rims (black or red blocks) in various lengths, both plain and studded, all giving safe and silent braking in all types of weather conditions.

No. 1. Havane—colour—white—length 39 mm—6 studs.

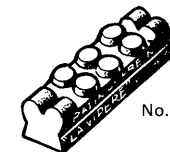
No. 3. Boa—colour—red—length 38 mm—14 studs.

No. 4. Trapez—colour—black—length 40 mm—Plain.

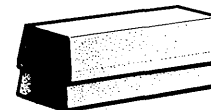
No. 6. Python—colour—black—length 40 mm—4 studs.

No. 6. Python—colour—red—length 40 mm—4 studs.

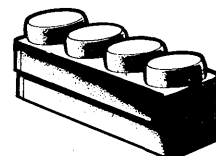
No. 6. Super Nylon—colour—red—length 40 mm—8 studs.



No. 1



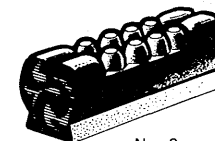
No. 4



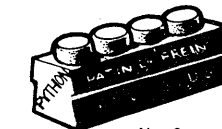
No. 6



No. 3



No. 6



No. 6

BRAKE SHOES AND BLOCKS

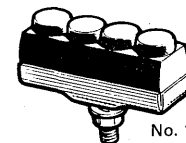
Certain models of blocks are available already fitted to shoes as follows:

No. 10. Standard caliper shoe with central fixing nut and bolt—fitted No. 6 blocks.

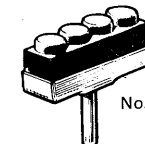
No. 10. Standard fitted with No. 4 blocks.

No. 11. Racing caliper shoe with attached pivot stud fitted with No. 6 black 4 studded blocks.

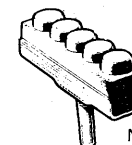
No. 14. Tandem. As No. 11 but longer and fitted with No. 5 black 5 studded blocks.



No. 10



No. 11



No. 14

DYNAMO PULLEY COVER

No. 15 is a neat moulded rubber all-over cap that is simple and will fit all popular sizes of pulley wheels. Gives a sure grip in wet conditions and saves wear on both pulley wheel and tyre.



HANDLEGRIPS

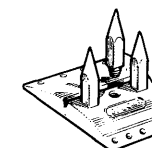
No. 25. Cyclotourisme. A touring set of 4 full length grips, 6" long, shaped to give maximum comfort on the longest ride. Available in red, white or blue colour and supplied with two plastic handlebar end plugs.



SHOE PLATES

C. Foucaux famous cast alloy plates with extra deep slots. Supplied complete with a set of fixing tacks. Two models—

No. 100 Route and **No. 101 Cyclo Cross**, the latter having detachable running spikes.



LYOTARD



Pierre LYOTARD, the original designer of the quill pedal now produces an unrivalled range of sports pedals, all manufactured in the best of materials. There are models in both finest chrome steel or polished duralumin, all designed for a particular purpose. Features of LYOTARD pedals include hollow spindles and solid centre barrels.

CHROME STEEL MODELS

Single Sided

001 Fauchaux. Popular quill pattern, solid centre, $3\frac{1}{2}$ " wide, hollowed axle, cut back side plate base. Weight 13 ozs. (368 gms.).

15S Piste et Route. Solid centre barrel with support struts to cut-away side plates. $3\frac{1}{2}$ " wide. Weight 14 ozs. (396 gms.).

45S Piste. A shorter quill design with $3\frac{1}{4}$ " width solid centre barrel. Weight 13 ozs. (368 gms.).

Double Sided

460A Course. Economy pedal $3\frac{1}{2}$ " wide with flat support struts to unusual side plates. Weight 14 ozs. (396 gms.).

46A Cyclotouriste. World patented design giving a choice of reach simply by reversing the pedal—the concave side gives a rational support for the foot and the reverse side being flat allows a relaxation of the leg. Width $3\frac{1}{2}$ ". Weight 15 ozs. (426 gms.).

38 Course Luxe. This pedal is extremely strong and good value. Stout side plates joined by round struts to solid centre barrel. $3\frac{1}{2}$ " wide. Weight 15 ozs. (426 gms.).

***15B Tour de France.** A very popular racing pedal with open side plates, solid centre and with support struts. Width $3\frac{1}{2}$ ". Weight 16 ozs. (454 gms.).

Platform Single Sided

***†23 Piste MB.** The famous pedal named after the French champion Marcel Berthet. Platform design eliminates normal side plates but front end will take toeclip plate and back end is shaped into a rapid pick-up tongue. Slots for toestrap are provided. Width $3\frac{1}{4}$ ". Weight 11 ozs. (311 gms.).

DURAL MODELS

Single Sided

***45CA Piste.** Quill pattern cage on a solid centre steel barrel. Width $3\frac{1}{4}$ ". Weight 11 ozs. (311 gms.).

***45TER Piste.** Similar to the 45CA but with the cage mounted on a light alloy barrel saving further weight. Weight 10 ozs. (283 gms.).

Double Sided

***460 Course.** An economy pedal in duralumin with side plates held by flat supports to barrel. Width $3\frac{1}{2}$ ". Weight 12 ozs. (340 gms.).

240 Route. Similar to the 460 but made for the rider who needs a wider pedal. Width 4". Weight 12 ozs. (340 gms.).

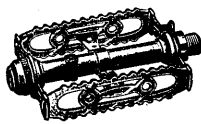
*L also available with longer threaded axles for dural cranks.

†TF also available threaded for toeclip bolts.

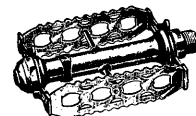
NOTE: All our LYOTARD pedals are made especially for us with British Standard threads and dimensions and a full range of spares and service is always available.



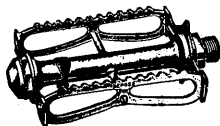
No. 001 Fauchaux



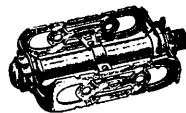
No. 460A Course



No. 15B Tour de France



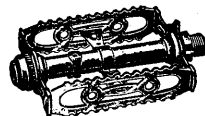
No. 15S Piste et Route



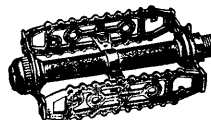
No. 46A Cyclotouriste



No. 23 Piste MB



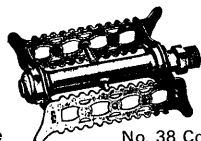
No. 460 Course



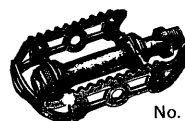
No. 240 Course



No. 45S Piste



No. 38 Course Luxe



No. 45CA Piste

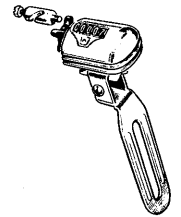
CYCLOMETERS

"Tour Meter" with the following exclusive features.

- ★ Precision mechanism records to 99999 and then repeats.
- ★ Noiseless urethane wheel is long lasting.
- ★ Magnification window makes total reading easy.
- ★ Original finish retained by special chemical process chroming.

Available for 20", 24", 26" and 27" wheels. Only weighs $1\frac{1}{4}$ ozs. (36 gms.).

MATEX



1st in 1931 to make a "RACING" rim in duralumin MAVIC have continued to lead the World both in quality and design. Their list of past successes is too great to print here but World Champions and Tour winners have preferred MAVIC for nearly 40 years, including in recent times Jan JANSSEN and Eddy MERCKX.

A choice of three superb Sprint rims, manufactured in the finest duralumin acclaimed by top cyclists the World over. The spoke holes have water-tight ferrules fitted giving the rim exceptional strength and the deep flat sides have ample braking surface. Drilled with 28, 32, 36 and 40 holes in 27" size only.

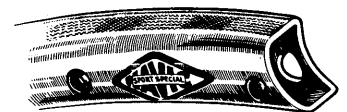
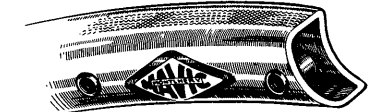
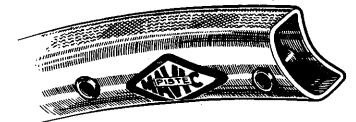
SPORT SPECIAL—with pressed in washers— $14\frac{1}{2}$ ozs. (410 gms.).

PISTE—wide section—21.5 mm wide—13 ozs. (370 gms.).

MONTLHERY—the most popular road racing rim—19 mm wide— $11\frac{1}{4}$ ozs. (320 gms.).

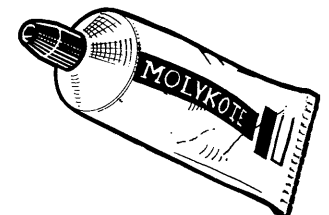
MAVIC

N-C 74.8
vol 12 No. 8
(16.11.7)
JSS



MONTLHERY EXTRA LEGERE—the latest and lightest MAVIC product— $10\frac{1}{4}$ ozs. (290 gms.).

MOLYKOTE 'G'



A revolutionary "PASTE" which when applied to bracket axles before the fitting of Cranks, makes assembly easier and prevents that "Fretting Corrosion" which occurs between steel and alloy. Disassembly is made without damage even after long periods.

MOLYKOTE 'G' is also an all purpose "PASTE" which when applied thinly on any revolving surfaces or bearings reduces friction and wear to a marked degree and is recommended to be used instead of grease for that "Fast Event".

To apply—clean the surface carefully, preferably with a solvent—use a leather or lint free cloth to rub in a thin layer with pressure, remembering not to over apply as MOLYKOTE 'G' is not a grease.



MIRACLE MARQUE ACCESSORIES

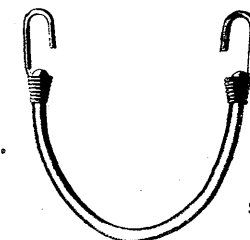
Designed, tested and proved by active cyclists, men with a practical knowledge of your sports needs and produced in the world's finest factories from top quality materials—MILREMO Miracle Marque Accessories are offered to you at unbeatable prices. Fully guaranteed—recommended particularly by **RON KITCHING** and backed by his really reliable Spares Service—MILREMO is the answer to your search for reliability at the right price.

MILREMO



BAGGAGE STRAPS

Exceptionally strong, made from well braided elastic, these are the handiest of straps. Useful for all purposes, the elastic ends are fully turned back and firmly gripped by the spiral metal ends. End hooks are fully plastic covered to avoid damage to either enamel or material. Available in all popular sizes, single or 4, 6 or 8-way spiders.



Single

BOTTLES

Ask for the bottle with the famous three colour MILREMO badge and you will be buying the best. Made in superior pearl white plastic that is non-odour, this bottle will stand enormous pressure and take hot or cold liquids. Two models are available—both ribbed—for easy handling and to fit snugly into the MILREMO 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 liquid contents easily squeezed out without removing the cap. The cap is fitted with an extended lip for easy removal and is held by a hinged attachment loop. Available with the famous MILREMO badge in either three colours or single red colour only. Weight 2½ oz. (62 gms.)



Tour de France

Giro D'Italia Today's most popular bottle. Fitted with a special cap having a centre hole to take a polythene drinking straw. This hole can be easily sealed by the hinged plug. MILREMO badged. Weight 2 oz. (56 gms.) Full length drinking straws and bottle caps can be obtained as extras.



Giro D'Italia

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. Weight 5 oz. (142 gms.)



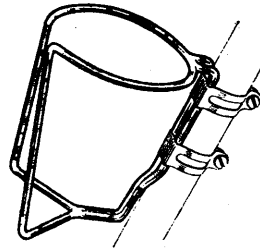
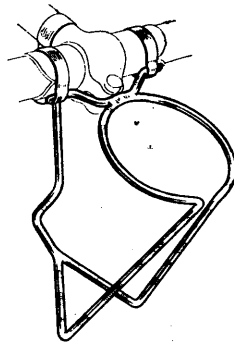
Thermic

MILREMO

BOTTLE CAGES

Without doubt the finest value ever offered in bottle cages. Designed to take all popular makes of bottles, the MILREMO cages are made in the simplest and most practical of styles.

Made in superb heavy gauge wire with a highly polished chrome finish, the cages are improved by the addition of a coloured plastic MILREMO badge plate on the base junction. A feature of MILREMO cages is the chrome fixing clips perfectly shaped to fit over the cage wires. The MILREMO bottle and cage set makes the perfect combination and is truly non-rattle and at the same time offers the quickest bottle removal. Available as follows, both with fixing clips: Handlebar Model Weight 4½ oz. (126 gms.) Down Tube Model Weight 3½ oz. (98 gms.)

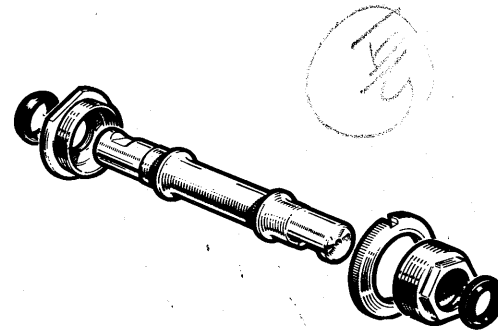


BRACKET SETS

'Super Competition' The best ever quality cottered set designed to eliminate the common fault of water entering the bracket shell and rusting the bearings. Fitted into each highly chromed cup are small rubber seals surrounding the axle, thus ensuring trouble-free running by keeping water out and oil and grease in. The locking is recessed on the inner edge to fit perfectly over the bracket shell.

The axle which has ground bearing surfaces is highly chromed with a cone shaped inner facing axle end.

Made in British dimensions with a choice of 2 axle lengths—132 mm for single, 136 mm for double. Weight 11 oz. (308 gms.)



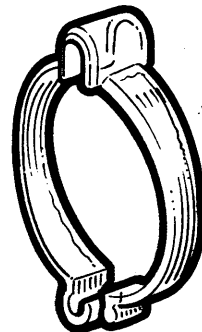
BRAKE CABLE CLIP

Another new and patented MILREMO 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 interlocking lips, this clip can be both fitted or removed without any difficulty. Ultra light and rustless, the clip cannot damage either cable or frame enamel.

Available in four models:

- Diameter 1½" — loop at side
- " 1" — loop at side or top
- " ¾" — loop at top.

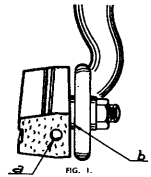
Weight per set of three ¼ oz. (7 gms.)



BRAKE BLOCKS AND SHOES

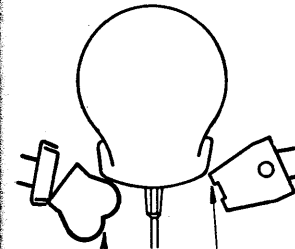
'Pouliquen' articulated brake block. A new technique gives these blocks the following patented features:

- (1) An axle (a) articulates through the block.
- (2) This axle, very strong, is slightly flexible.
- (3) The fitting of the block is such that only a limited contact is made with the brake arm (b). (See Fig. 1).



Technical Advantages

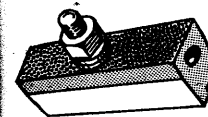
- (1) The articulation assures perfect contact between rim and block resulting in less wear and better braking in wet weather.
- (2) The slight flexibility of the axle avoids any sudden jerking in the braking and assures a correct longitudinal bearing.
- (3) The limited contact with the brake arm assures a very firm mechanical connection and reduces the transmission of noise.
- (4) The pliancy of the mounting assists the tightening and increasing this adds to the power of the brake.



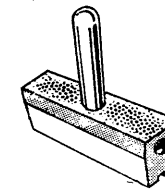
Block struck out FIG. 2 Block held

Important. Fit the block with the head of the axle (a) facing towards the front. Adjust the contact of the block as high as possible (See Fig. 3).

Pouliquen Models



Side pull



Centre pull

BRAKE BLOCKS

Super Vylon For the rider who prefers 'standard' brake blocks MILREMO presents the SUPER VYLON Brake Block. Made with a base of SOLKA synthetic resin, these blocks have qualities of braking and resistance that are surprising. The SUPER VYLON Block is available 4 or 5 studded in red or black colour, and 7 slotted pattern in red colour only.

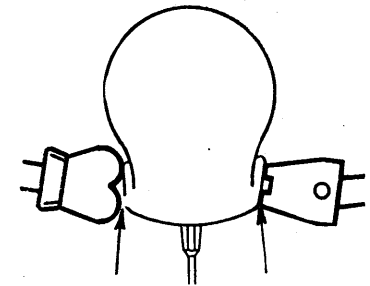
Super Vylon Studded



Practical Advantages

During fitting and removal of a wheel there is no risk of a brake block being struck out of its shoe (See Fig. 2).

Saving of weight by a reduction of metal parts and less possibility of rusting. Easy and rapid exchange of used blocks.



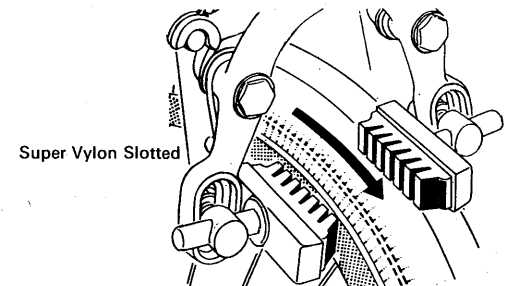
Incorrect contact. FIG. 3. Correct contact.

The 'POULIQUEN' is available in two models:

SIDE PULL BRAKE model with threaded stud, washer and locknut.

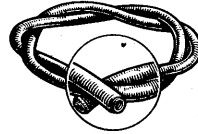
CENTRE PULL BRAKE model with plain eyebolt stud.

MILREMO 'POULIQUEN' brake block—convenient for the repairer—practical for the user.



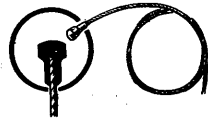
BRAKE CASING

'Europ' Best quality ribbed plastic covered outer casing. Choice of colours: red, black, white, yellow, green, light blue, dark blue and silver. Available in required lengths or in 50 metre rolls.



BRAKE INNER WIRES

A range of inner wires unequalled for quality is available to fit all popular cycle brakes. The range includes straddle cables. All wires are individually packed. For dimensions see Section on 'Technical Data'.



CHAINWHEELS

MILREMO chainwheels 3 or 5-pin are made in top quality deluxe chrome plated steel in all popular sizes and will fit most popular cranks (see 'Technical Data' Section).

Single Pattern (To fit chains $\frac{1}{2} \times \frac{1}{8}$ or $\frac{1}{2} \times \frac{3}{32}$ —state which when ordering). Tooth sizes available 44—46—47—48—49—50—52.

No. 130 3-arm

Weight 6-8 oz. (168-224 gms.)

No. 150 5-pin

Weight 10-12 oz. (280-336 gms.)

Double Pattern (To fit chains $\frac{1}{2} \times \frac{3}{32}$).

No. 230 3-arm. Available in sizes inner 36—49, outer 46—54.

Weight 14-18 oz. (396-510 gms.)

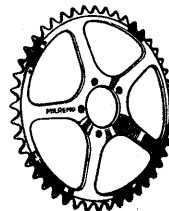
No. 250 5-pin. Available in sizes inner 26—48, outer 44—52.

Weight 16-20 oz. (454-566 gms.)

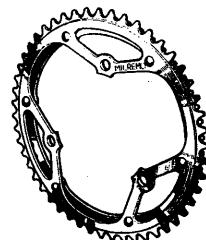
NOTE: MILREMO double rings are fully demountable allowing a larger range of sizes than other makes.



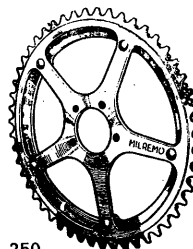
130



150



230



250

CRANKS

MILREMO offer you a range of cranks to meet every requirement—3-arm or 5-pin—made in high resistance specially treated steel by the finest craftsmen in Europe. Four models, all finely drawn and carefully fluted, finished in super chrome plating. All MILREMO cranks are made for British threads and dimensions.

3-Arm Models

To fit all popular CONTINENTAL 3-arm single or double chainwheels including TA range.

Course 33. Forged pattern in extra light section. Length— $6\frac{1}{2}$ " or $6\frac{1}{2}$ ".

Club 333. Heavier square section, attractively fluted. Length— $6\frac{1}{2}$ ".

5-Pin Models

To fit all popular BRITISH and CONTINENTAL 5-pin single or double chainwheels including TA range.

Course 55. Forged pattern in extra light section. Length $6\frac{1}{2}$ ".

Club 555. Heavier square section, attractively fluted. Length $6\frac{1}{2}$ ".

CHAINWHEELS AND CRANKS

Fixed joggled pattern for junior and adult cycles. Made in top quality chromed steel in the following sizes:

Junior	Chainwheel size	Crank Length
No. 90	30 teeth $\frac{1}{2} \times \frac{1}{8}$	3.7/16"
No. 110	32 " " "	4.11/32"
No. 130	36 " " "	5"
No. 150	40 " " "	6"
Standard		
No. 464	46 teeth $\frac{1}{2} \times \frac{1}{8}$	$6\frac{1}{2}$ "
No. 484	48 " $\frac{1}{2} \times 3/32$	$6\frac{1}{2}$ "
No. 464	46 " $\frac{1}{2} \times 3/32$	$6\frac{1}{2}$ "

CHAINWHEEL BOLTS

3 Types as follows:

7 mm. Dull chrome with dimpled head.

7 mm. Screw and bush for Model 333 cranks only.

Set or 5 screws for most 5-pin chainwheels.

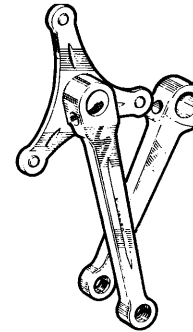
COTTER PINS

Best quality plated cotters with standard milling. Available as follows.

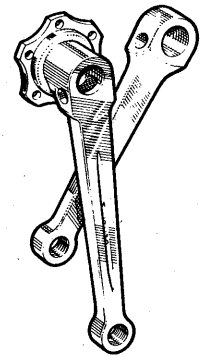
9 mm. Continental size with initial 'M' embossed on the head.

9 mm. Continental size with plain nut.

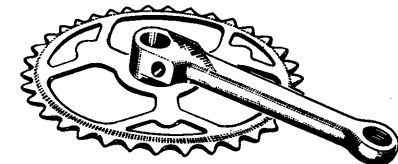
9-5 mm. British size with plain nut. $3\frac{1}{8}$ " = 9.5



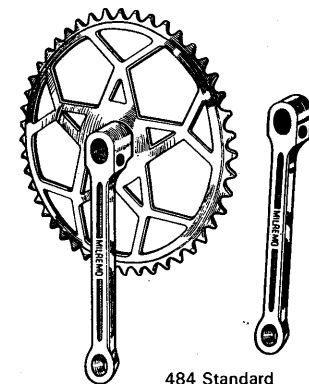
333



555



110 Junior



484 Standard



STILL IN THE DARK ABOUT LIGHTING? SWITCH ON TO



MILREMO 'COMET' DYNAMO SETS are the result of practical research into cyclists' lighting requirements. MILREMO sets offer reliability at a price to suit every pocket.

DYNAMO HEADLAMPS

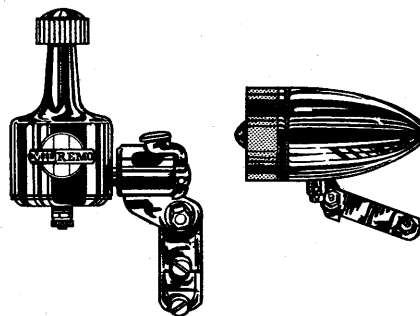
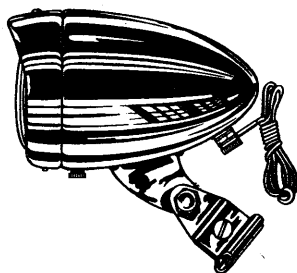
Choice of 2 models.

Round Design made from top quality 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. Weight 4½ oz. (126 gms.)

Square Design Made of strong plastic with the base fitted with a highly polished chrome cover. Fitted with a 2½" x 1½" unbreakable glass covering a single bulb which is housed into a polished reflector. The dynamo current cable fits into the headlamp inner shell, resisting vibration by being held by a small spring loaded catch. Supplied complete with lamp bracket fixing clip and dyno cable. Weight 2¾ oz. (78 gms.)

DYNAMO SET

Comet Compact lighting set made of top quality materials. The dynamo 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. Offered with a choice of the **round or square headlamp**. Supplied complete with British Standard stay fitting rear lamp, fixing brackets, cable and non-slip rubber pulley cover. Weight 19 oz. (538 gms.)



FREEWHEELS

ALL STAR SUPER (with internal splined body).

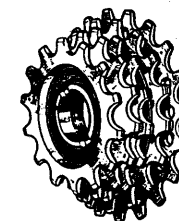
At long last a multiple freewheel that is simple, light, trouble free and practical, and that will give you the ratios you need. Look for these 'All Star' features:

- ★ Extra smooth true running
- ★ Splined body for easier removal
- ★ Universal body for 4 or 5 speeds
- ★ Designed for quick release or standard hubs
- ★ Interchangeable cogs—all detachable
- ★ Full range 13 to 30 teeth (except 27 and 29)
- ★ Precision guaranteed to 0.050
- ★ Profile of teeth specially designed for quick gear change
- ★ Bearing races are ground and lapped and set at extremity
- ★ Weight only 11½ oz. (332 gms.)



ALL STAR SUPER TT

The time trialist freewheel (or for use with wide ratio double chainwheels). A superb close ratio freewheel. One size only 5-speed 13/14/15/16/17. Made of the same materials as the 'ALL STAR' with the same immaculate precision. Weight 9½ oz. (269 gms.)



ALPINE

MILREMO introduce the 'ALPINE' multiple freewheel. The first accessory of its kind to be made without cost consideration. **Perfection** is obtained by these exclusive features:

Superior in quality because it is made from high resistance nickel-chrome steel.

Sturdier in design because the stress on the pawls is effected over a very wide diameter, there is a maximum distance between both races, parts undergoing heavy stress are strongly made, pawls are of alloy steel, springs highly flexible and notches exceptionally tough.

Lighter in weight—the 5-speed only weighs 11½ oz. (325 gms.)

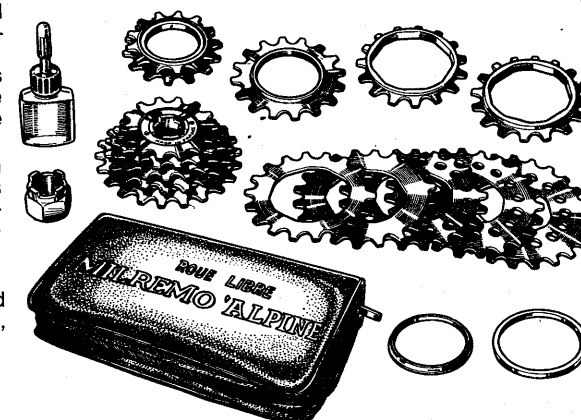
Practical because all the cogs are strictly interchangeable having only two diameters as follows:

Cogs Model G with quick-action polygonal fit (all sizes 15 to 30 teeth). Cogs Model P with RH thread and which locks the assembly (sizes 13 to 16 teeth).

The advantage with this design is that any gear ratio can be made up **without having to unscrew the freewheel from the hub.**

Presentation is first class. An accessory of this quality deserves something better than a cardboard box and is offered therefore in an exclusive plastic zip pouch containing:

- 1 Freewheel complete 5-speed with 13/P, 15/P, 17/G, 19/G, 22/G cogs
- 1 Freewheel removing tool
- 2 Freewheel pawl springs
- 2 Freewheel pawls
- 1 Freewheel spacer EG
- 1 Freewheel spacer EP
- 1 Special oil can
- 1 each cogs model P.14, 16, 17, G.15, 16, 18, 20, 21, 23, 24.



ALPINE FREEWHEELS—continued

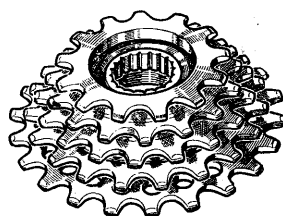
This ensemble enables any combination from 13 to 24 teeth to be quickly and easily assembled and with the purchase of the few extra large size cogs the range can be extended to 30.

The MILREMO 'Alpine' free-wheel is made for the rider who will have the best—proved already by the following champions SIMPSON — VAN LOOY — SELS — AIMAR — ANQUETIL — BRACKE — MERCKX.

'Alpine' 6-speed ensembles also available and both 5-speed and 6-speed freewheels can be purchased separately. Model G polygonal fitting spare cogs 25—26—27—28 and 30 teeth available separately.

MILREMO freewheels are made to British dimensions and threads and a full spares service is always available.

Single freewheels for junior and adult cycles and multiple three and four-speed ratios are also stocked.



FREEWHEEL REMOVERS

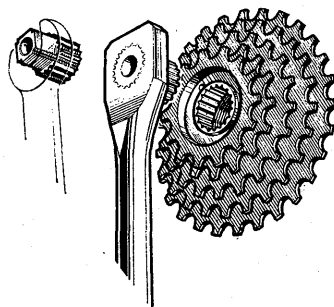
For either workshop or roadside repair it is essential that the correct removal tool be used at all times. MILREMO freewheels fitted with splined bodies need either of the following removal tools:

407 Small pocket remover. Best quality steel designed to fit perfectly into the splined body. Weight 1½ oz. (35 gms.)

406 For workshop use and fitted with long lever to obtain maximum leverage. Weight 21½ oz. (608 gms.)

DRP Special remover for 'ALPINE' free-wheel.

Also available is the small threaded lock nut for cones which extend out beyond the freewheel body ensuring easy removal when a freewheel needs replacing or re-pairing.



GEAR/HUB LEVER RUBBERS

'Coprileva' Neat plastic covers that are shaped to fit over any gear or hub QR levers. Choice of 4 colours, red, blue, white or grey.



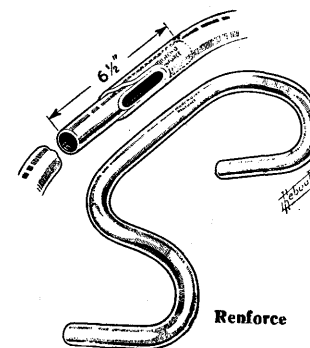
GEAR INNER WIRES

A full range of quality inner cables to fit every type of modern gear at unbeatable prices. Available in assorted lengths (see 'Technical Data' Section) suitable for handle-bar or down tube controls. Individually packeted.



HANDLEBARS

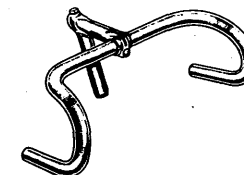
MILREMO offer an unrivalled range of handlebars in finest polished duralumin. Choice of 5 models:



Renforce The only handlebar that will not whip, reinforced internally by a dural tube 6½" long permanently sleeved into the outer bar section by a patent process. Popular square shape with ferrule. Weight 10½ oz. (294 gms.)

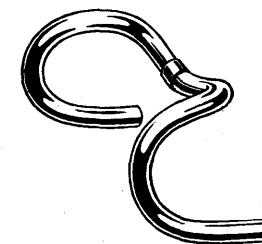
Olympic Slightly wider, with a deeper drop and shorter forward reach than RENFORCE. The bars are gently curved outwards and this minimises wrist ache in long events. Weight 10½ oz. (294 gms.)

Franco-Belge The old favourite. This is a slightly narrower bar giving a good square top position. Weight 9½ oz. (266 gms.)



Franco Belge

Randonneur The tourist's favourite giving a perfect touring position. A slight lift from the centre enables the 'guidonnet' type of touring lever to be used, avoiding having to make long descents on the drops. Weight 10½ oz. (294 gms.)



Randonneur

Magne This is the bend for the distance rider. Square design with grip slightly turned outwards giving maximum comfort without wrist ache. Weight 10 oz. (280 gms.)

For dimensions see 'Technical Data' Section.

HANDLEBAR END STOPS

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

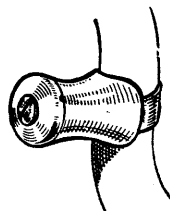
- ★ Absolute security—no fear of the stop becoming loose and eventually lost.
- ★ Clean appearance—the head has a similar diameter to the external diameter of the handlebar.
- ★ Rustless.
- ★ Non-usage of perishable materials such as rubber.
- ★ Choice of attractive colours—red, white, black, Oxford blue, ice blue and yellow.
- ★ Ultra light, weight only ¾ oz. pair (21 gms.)





HANDLEBAR RESTS

Arresta 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, white, blue, green or yellow. Weight 1 oz. (28 gms.)



HANDLEBAR STEMS (complete with expander and clip bolt and nut).

MILREMO stems are made from the finest duralumin obtainable, perfectly machined to precision dimensions. **More than one million** have been sold without complaint—proof indeed of their reliability. Four models available to suit every need from town to touring to racing—all at competitive prices.

Cadet The stem with 1" close up extension. CADET stems have a front opening clip suitable for 15/16" diameter bars. Weight 7½ oz. (213 gms.)

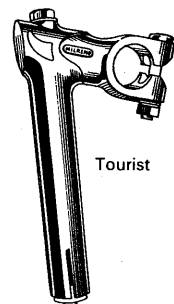
Tourist Polished alloy with attractive top and side painted with red cut-outs. 2" forward extension with front opening clip. Weight 8½ oz. (248 gms.)

Sport First class polished alloy stem with top and side with red painted cut-outs. The forward extension incorporates on the sides the MILREMO name and has a horizontal opening clip. The clip bolt which has a painted head is lipped and easily accessible. Made in two forward lengths—2½" (6.5 cms.) and 3½" (9 cms.) Weight 8½—9¼ oz. (248—269 gms.)

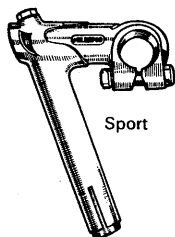
Grand Sport Super dural reinforced, this stem is both stylish and practical. Highly polished with neat cut-outs on both sides and top coloured in bright red enamel. Made especially to suit British fork columns and largest diameter racing bends, this stem is fitted as standard by most of the leading British and European lightweight cycle makers. Available in four forward lengths 2½" (6.5 cms.), 3½" (8 cms.), 3¾" (9 cms.) and 4.1/16" (10.4 cms.) Weight 9—11 oz. (252—308 gms.)

For the rider who uses centre pull brakes 'GRAND SPORT' stems are available in any of the above sizes drilled vertically through the forward extension for a brake cable at a small extra cost.

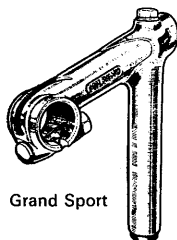
Fit MILREMO handlebars and stems—A range unrivalled for quality and design.



Tourist



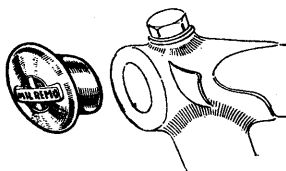
Sport



Grand Sport

HANDLEBAR STEM PLUG

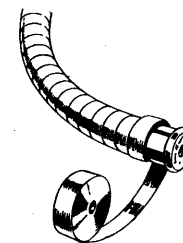
Designed especially for SPORT and GRAND SPORT stems, this small ultra-light plastic red plug fixes into the back of the extension piece giving the stem an even neater appearance.



HANDLEBAR TAPE

'Plastolux' Superior glossy adhesive plastic tape. 2½ metre roll. 6 colours—red, white, blue, black, green and yellow.

'Twilolux' Extra strong thick twill tape in non-slip herring bone pattern with a backing of clear adhesive. One roll sufficient for a pair of bars. 6 colours—red, white, blue, black, green and yellow.



HEAD FITTINGS

A really top quality headset, with these exclusive 'Classic' features:

- ★ Precision made from the finest steel
- ★ 1" X 24 TPI screwed ball races for 5/32 bearings
- ★ Superb chrome finish
- ★ Screwed races specially designed to ensure perfect head adjustment
- ★ Made in British dimensions

Choice of 2 models, both attractively boxed:

'Classic Standard' Elegant design with octagonal locknut and serrated screwed race. Weight 6 oz. (168 gms.)

'Classic de Luxe' Modern design with octagonal locknut Weight 5½ oz. (154 gms.)



HUBS

MILREMO offers a complete range to suit every purpose and pocket. Precision made in the latest materials MILREMO hubs are reliable, strong and light. Fitted with ground bearing races, hardened cones and locking nuts, every MILREMO hub has highly polished flanges and countersunk holes for the spoke heads. There is a MILREMO hub to meet your exact requirements. Choose from the following range.

SMALL FLANGE MODELS

'Cadet' Light chrome steel. SS/gear only drilled 32/40. Ideal for the beginner and wonderful value. Weight 18 oz. pair (510 gms.)

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

Front 28—32—36 Rear 28—36—40
Weight 15½ oz. (440 gms.)

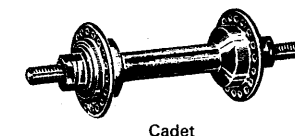
'Super Champion' Top quality **quick release** hub similar to 'CHAMPION' but fitted with hollow axles incorporating a trouble-free quick-release mechanism. SS/Gear only with drillings:

Front 28—32—36 Rear 28—36—40
Weight 20¼ oz. (572 gms.)

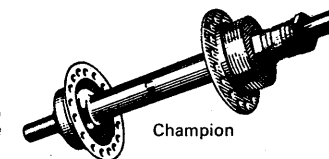
LARGE FLANGE MODELS

'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 or SS/Fixed.

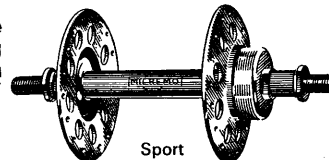
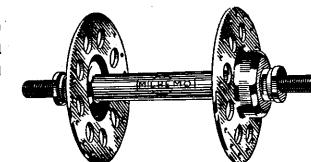
Drillings: Front 28—32—36 Rear 28—36—40
Weight 17 oz. (482 gms.)



Cadet



Champion



Sport

HUBS

LARGE FLANGE MODELS —continued

'**Super Sport**' Similar to 'SPORT' but fitted with **quick-release** hollow axle and mechanisms.

Drillings: Front 28—32—36 Rear 28—36—40
Weight 20½ oz. (586 gms.)

'**Super 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 24—28—32—36 Rear 24—28—36—40
Weight 22 oz. (615 gms.)

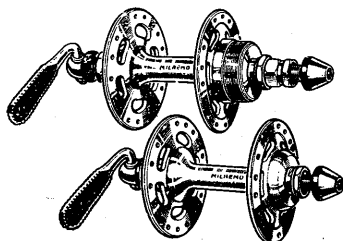
JUNIOR MODEL

'**Bambino**' Small flange dural hubs designed specially for juvenile cycles. SS/Gear, 24/24 drillings only.

All MILREMO hubs are made to British Standards with fronts having 3/16 balls and 5/16 spindles and rears ¼ balls and ⅜ spindles.

Key: SS=Single Sided DS=Double Sided

MILREMO



Super Competition

MUDGUARDS

GUARD against the weather with MILREMO miracle marque mudguards. There is a type for every kind of cycling activity.

For RACING

Use these lightweight, highly polished duralumin extensions.

'**Sport**' in square design with firmly rivetted bracket.

2 Models—9" long for the **front (AV)** and 12" long two-way pattern for the **rear (AR)**. Weight 2½ oz. pr. (70 gms.)

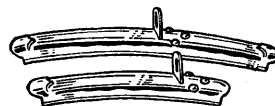
For TOURING

3 models in finest duralumin (Sections only are illustrated).

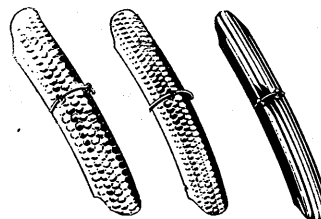
'**Le Martele Route No. 12**' Semi-balloon wide pattern in strong hammered finish.

'**Le Martele Course No. 13**' As above but slightly lighter and narrower.

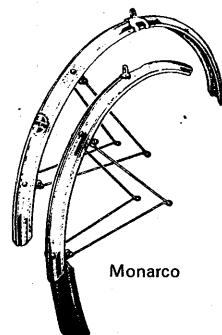
'**Le Paon Course No. 23**' Lighter than above in pleasing ribbed pattern.



Sport



Touring



Monarco

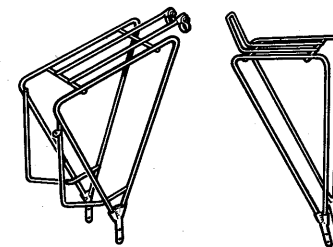
For ALL-PURPOSE CYCLING

'**Monarco**' A new guard made in superior quality unbreakable **Fromoplast**. Available in red, green, blue, black, white and gold.

Monarco mudguards are supplied with approved rear reflector, lightweight front mudflap, quick release double stays and bridges.

PANNIER CARRIERS

'**Fiol**' 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. Weight—Front 21 oz. (594 gms.) Rear 28 oz. (792 gms.)

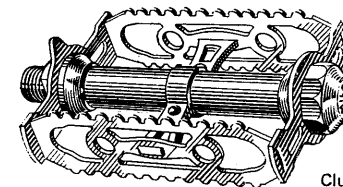


PEDALS

Attractive in design—reliable in use—economical to buy.

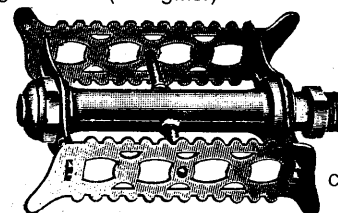
7 Adult models available:

'**Club**' Chrome steel, double sided with supporting centre strut, and solid end cap. Weight 14 oz. (392 gms.)



Club

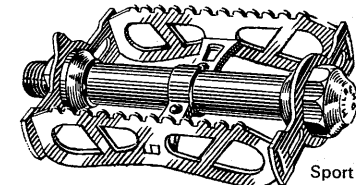
'**Cadet**' Chrome steel, similar to 'CLUB' but with a slightly different design to side plates. Weight 14½ oz. (406 gms.)



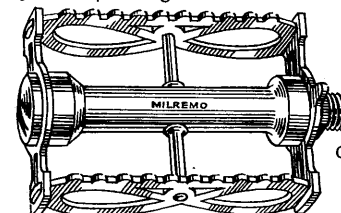
Cadet

'**Sport**' Chrome steel, in the popular cut-away **single sided** design with a distinctive pattern to the side plates. Weight 13½ oz. (378 gms.)

'**Sport T**' As above but with threaded studs for easy toeclip fixing.



Sport

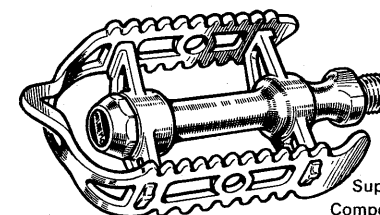


Champion

'**Super Competition**' Superb quality quill type pedal. One piece machined duralumin barrel with steel side plates. Distinctive colour embossed alloy end cap. Ideal for all types of cycle sport. Weight 12¾ oz. (356 gms.)

'**Champion**' Made in corrosion proof duralumin with fully machined pedal members. **Single sided** with specially designed machined end caps. Weight 11 oz. (308 gms.)

'**Super Champion**' As above but finished in a deluxe duralumin. Weight 11 oz. (308 gms.)

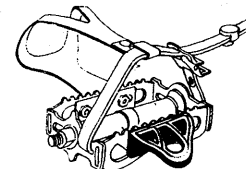


Super Competition

JUVENILE MODEL

'**Junior 6**' A neat racing pedal in duralumin made especially for the current trend in junior racing cycles.

PEDAL TONGUES



'**Rapido**' Modernise your pedals with these ultra-light non-rusting, quickly-attached nylon plastic pedal tongues and assist your feet to rapidly enter the toeclips. Weight only ¼ oz. per pair!

All MILREMO pedals are manufactured specially for the British market with all threads in British Standards. Spares and service are always available.

PUMPS

MILREMO—The world's finest range of racing pumps, incorporating many exclusive patented features.

ALLOY AND STEEL WITH STANDARD BRAIDED CONNECTION

'Piuma' 908 Steel barrel with plastic handle. Enamelled in black, red, blue or green. 15" × 7/8".

'Piuma Plus' 901/3V steel barrel and handle, with 3 coloured bands for handgrip. Polished finish, 15" × 7/8".

'Junior' 902 Steel barrel and handle, polished or anodized white, red or blue. 10" × 3/4".

'Piuma' 901 dural model. Available polished or anodized red, blue, green or gold. 18" × 15/16".

'Piuma' 901/AH Dural model, as 901 above, but with 3 coloured bands for handgrips.

'Club' 15 Highly polished dural, 15" × 15/16".

'Club' 18 Highly polished dural, 18" × 15/16".

'Club' 12 Highly polished dural, 12" × 15/16".

CELLULOID WITH STANDARD SCLAVERAND BRAIDED CONNECTION

'Silca-Esport' 520, available in red, blue or white, 15" × 15/16".

'Silca-Esport' 522, white with 5 colour ringed hand grip, 15" × 15/16".

'Silca-Extra' 505, available in red, blue, green, black or white, 18" × 15/16".

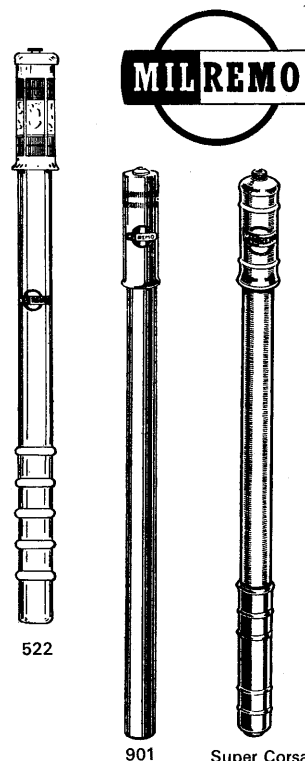
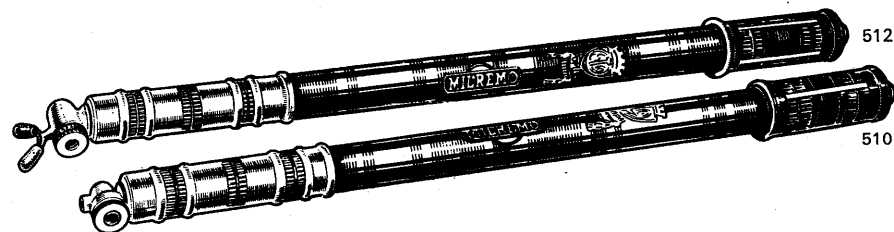
'Super-Corsa', plain white with polished metal hand grip, 18" × 15/16".

CELLULOID WITH RACING ADAPTOR

'Impero-Extra 510' The world's best racing pump. Made in best quality celluloid and fitted with an exclusive patented highly polished aluminium sleeved hand grip and fitted with patented N14/1 racing adaptor in lieu of braided connection. The end of the pump has a brass insert incorporating a threaded stud which screws into the adaptor, this being the reverse to usual practice. Coupled with the fact that the end of the adaptor is raised and squared to fit into the matching squared end in the hand grip, the final combination of adaptor, sleeve and pump results in a joint which is not only air tight but which cannot unscrew in normal use. Colours available are red, orange, blue, white, silver, black and green. Length 15" or 18" × 15/16". Weight 5 1/2 oz. (154 gms.)

'Impero-Super 512' As 510 but fitted with patented racing IMPERO-CAMPAG adaptor, incorporating CAMPAGNOLO rubber covered horns to dispense with the need for a pump peg. Colours and lengths as 510. Weight 6 oz. (168 gms.)

NOTE: This adaptor is different from the Standard 1030 CAMPAGNOLO having the patented IMPERO squared end.



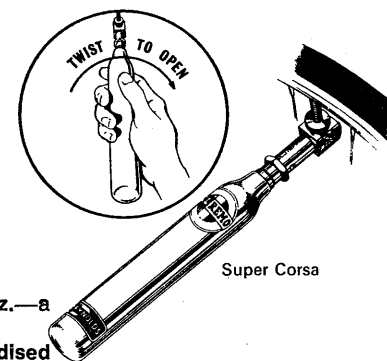
NITROGEN PUMP

'Super Corsa' A cycle accessory innovation—the all dural nitrogen racing pump. Every racer knows the importance of making a lightning re-inflation after a tyre change at a critical stage of a race—the MILREMO nitrogen pump ensures just that—without the previous disadvantage of carrying a heavy steel cylinder. Here are the exclusive features of this new pump:

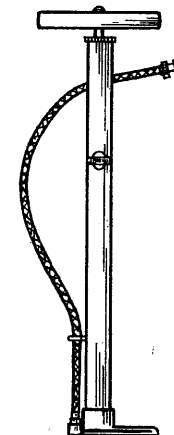
- ★ Weight of complete pump with valve only 3 1/4 oz.—a quarter of the weight of similar pumps!
 - ★ Cylinder made by REYNOLDS TUBE in anodised aluminium.
 - ★ Tested to a pressure of 3960 lbs. per square inch.
 - ★ Special quick release valve made in rustless alloy.
 - ★ Size only 7 1/4" × 1 1/8"—small enough to fit into a jersey pocket—light enough to clip to the frame.
 - ★ Inflates a tyre in 2 seconds—the nitrogen is released by a half twist of the pump body.
 - ★ Capacity for 2 tyres with each filling.
 - ★ The nitrogen used is non-inflammable, harmless to the tyre and will not leak during use.
 - ★ Pump is re-filled cheaply by our return postal service.
- No need to carry your usual pump when you use a MILREMO Super Corsa Nitrogen Cylinder.

REMEMBER—You save precious weight and time.

MILREMO—The world's only ALL DURAL nitrogen pump.



Super Corsa



Pompa-Pista

TRACK PUMP

'Pompa-Pista 650' A powerful double handed pump for use at track events. 22" long barrel, 1 1/4" diameter washer. Fitted with 24" rubber connection and N24 adaptor. Handle disconnects for easy storage. Weight 44 oz. (1244 gms.)

'Pompa-Pista 650B' As above but with moveable handle.

'Pompa-Pista 650C' Ditto with pressure gauge.



PUMP CLIPS

'Tenez' Super all chrome pump clips. Sturdy conical nose pegs which fit perfectly into screw-on clips which cannot twist. To fit 1" or 1 1/8" dia. tube. Weight 1/2 oz. pr. (14 gms.)

PUMP ADAPTORS (Push-on)

Be sure of quick tyre inflation on that unwelcome occasion when every second is vital.

'N14 Belloni' Standard type racing adaptor which will fit most modern pumps. Weight 1 oz. (28 gms.)

'N14/PC Impero' Special racing adaptor made to fit all pumps which have the screwed collar fitted into the barrel end. Weight 1 oz. (28 gms.)

'N14/1 Impero' Patented adaptor as fitted to MILREMO 510 pumps. Squared end to locate securely into pump handgrip. Weight 1 1/4 oz. (35 gms.)

'N25 Impero—Campag' As supplied with MILREMO 512 pumps. Patented design with squared end and horn rests. Highly polished chrome steel. Weight 1 1/2 oz. (42 gms.)

'N24 Silca-Pista' Large adaptor which can be fitted to any track pump connection. Constructed from brass and designed so that the rubber insert constricts under pressure. Weight 1 1/2 oz. (42 gms.)



N.14/1



N.14/PC



N.14



N.25



PUMP ADAPTOR—continued

'Super Corsa' Alloy adaptor made especially for the nitrogen pump. Square design with screw action for quick tyre inflation. Weight 1 oz. (28 gms.) Spare adaptor washers always available. Adaptor reference number must be quoted when ordering.

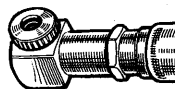
PUMP CONNECTIONS—Braided

'N2' 20 cms. long for all Sclaverand H.P. and tubular tyre valves.

'N1' As above for standard Dunlop pattern Woods valves.

'Super Corsa' Super multi-coloured connection to fit all British H.P. and tubular tyre valves.

'Club' As above to fit Continental pumps.



No. 2 Braided Connection

RIMS

A range of rims in finest duralumin—quality without equal—unrivalled for value.

SPRINT RIMS FOR TUBULAR RACING TYRES

MILREMO sprint rims are now recognised as the best. Used by champions in every form of cycle sport, there is a MILREMO rim to suit every requirement.

'Corsa' A hollow sprint rim at an economy price, ideal for the newcomer to the sport of cycle racing. Highly polished dural of hollow section, the rim bed is roughened to increase tyre adhesion and the flat sides are serrated to facilitate efficient braking in wet conditions. Drilled 32—36—40. Weight 12 oz. pr. (336 gms.)

'Record' The rim for the super lightweight enthusiast. Used by most of today's champions, these rims have been proved in the severest race conditions. Manufactured from a light alloy of the greatest strength, they incorporate the famous wood block inserts giving lightness and durability but also the same elasticity as with a wooden rim. The construction of these rims permits ample offset of the spoke holes near to the edge of the rim. This results in ease of build up and the wheel retains its trueness without repeated tightening. The 'RAUBETT' dimpled bed prevents the dangerous roll off of the tyre. The tyre adheres to the rim extraordinarily well and is also prevented from wandering. These rims have exclusive five colour marking for the valve position enabling this to be found instantly. Drilled 32—36—40. Weight 8½ oz. pr. (249 gms.)

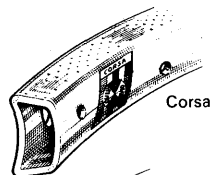
'Weltmeister' Recommended for track and time trial events. Similar in design to RECORD but lighter. Drillings 24—28—32—40. Weight 7 oz. pr. (198 gms.)

'Giro' The sprint rim for the massed start rider who insists on strength with lightness. Deep flat sides giving maximum braking surface on those long descents, this rim has exceptional strength due to the spoke holes having water-tight ferrules. Drillings 28—32—36—40. Weight 12½ oz. pr. (350 gms.)

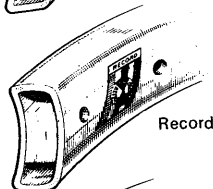
'Super Record' A superb sprint rim similar to 'GIRO' but with serrated braking sides. Highly polished—36 drilling only. Weight 11 oz. (311 gms.)

All above are Standard Size 27".

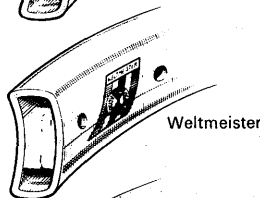
'M Weltmeister' Moulton size 17" with wood insert. 28 hole drilling only. Made specially for the MILREMO range of 17" tubular tyres.



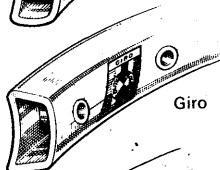
Corsa



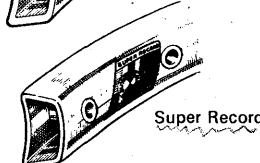
Record



Weltmeister



Giro



Super Record

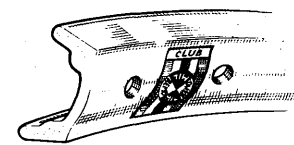
Super Record Piston 28H

WIRED-ON RIMS FOR HIGH PRESSURE 1½" TYRES

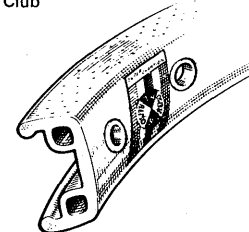
'Club' A solid dural rim for the club rider made especially to fit British size 27" high pressure tyres. Deep in section to give a good braking surface, the dural combines strength with the advantage of being light and rustless. Drillings 32—36—40. Weight 18 oz. pr. (510 gms.)

'Super Champion' Superb high pressure 27" rims in a new design. Specially made to give extra strength with deep section side walls scoured for braking reliability. Highly polished duralumin with reinforcing ferrules pressed into the spoke holes ensuring a water tight tyre fitting. Drillings 32—36—40. Weight 30 oz. pr. (840 gms.)

'M Club' Moulton size 17" Specification as 'CLUB' above. 28 hole drilling only.



Club



Super Champion

WIRED-ON RIMS—JUVENILE SIZES

Westwood Pattern

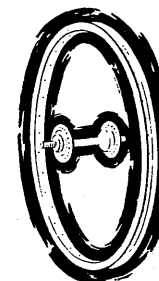
Polished dural rims available in the following sizes:

Size	Model	Outside Width	Inside Width	Drilling
11" × 1½"	A57	33mm.	28mm.	20/20
12½" × 2-125"	"	"	"	20/20
14" × 1½"	"	"	"	20/20
16" × 2-125"	"	"	"	20/36
16" × 1½"	"	"	"	To choice
16" × 1½"	A61	"	22mm.	" "
18" × 1½"	"	"	"	" "
20" × 1½"	"	"	"	" "
24" × 1½"	"	"	"	" "

WIRED-ON RIMS—JUVENILE SIZES

Endrick Pattern

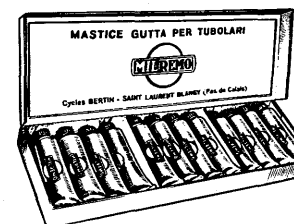
Size	Model	Outside Width	Inside Width	Drilling
11" × 1½"	S200	21.5mm.	17.5mm.	12/16
14" × 1½"	A38	"	"	20/28
16" × 1½"	"	"	"	20/20
18" × 1½"	S200	"	"	20/20
20" × 1½"	A62	25mm.	20mm.	24/28
22" × 1½"	"	"	"	To choice
24" × 1½"	"	"	"	" "
26" × 1½"	A59	27mm.	21.5mm.	" "
450A	A62	25mm.	20mm.	" "
500A	"	"	"	" "



RIM CEMENT

'Mastice Gutta' Specially made for all road tubulars. The only cement which guarantees perfect adhesion between tubular and rim. Packed in handy size tubes, the cement will not go hard after a period of time.

'Gutta Bianco' A new all white quick drying cement suitable for road or track tubulars. Only one application of GUTTA BIANCO is required to give a perfect bond between tubular and rim. In a handy size tube.





SADDLES

The early objections to nylon-plastic racing saddles having been overcome long ago by their use by champions of all nations in the world's most gruelling stage races in every type of climatic condition it was obvious that other manufacturers would soon enter the field and produce similar products.

MILREMO therefore are now able to offer you a choice of no less than 6 models under their famous marque—all of proved quality and in the MILREMO tradition of exceptional value.

'Freccia d'Oro' (Golden Arrow) This will certainly be 'the' saddle of the 70's. It has a perfectly shaped perforated top that is molded cleanly to the 2-wire frame avoiding any rough edges, flats or corners which cause chafing. Neat moulded bag loops are provided on this model only and it is also available in attractive colours of ORANGE and OATMEAL in addition to the standard BLACK at no extra charge. Weight 17½ oz. (496 gms.).

'Freccia d'Oro'—Luxe As the standard model above but with the top covered in hard wearing BLACK skay. No bag loops.

Seamless This has a first quality BLACK seamless top moulded to a superior quality chrome frame. Weight 17 oz. (482 gms.).

Seamless—de Luxe Similar to the standard seamless but with the top carefully covered with extra fine quality BLACK leather. Weight 17½ oz. (496 gms.).

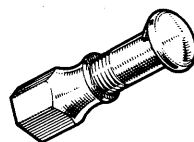
Super—de Luxe The ultimate in comfort—a foam insert covered by a quilted top cross stitched in fine BLACK leather. Weight 18½ oz. (524 gms.).

All the above can be offered **less clips** for use with the special seat pillars made by UNICA-NITOR, ZEUS and CAMPAGNOLO. The weights shown above will be reduced by approximately 5½ oz. when supplied less clips.

SEAT BOLTS

'Similchrome' The answer to scratching the frame enamel when adjusting the saddle pin height.

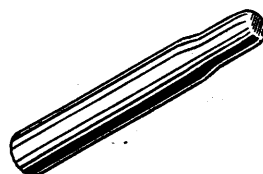
'Similchrome' seat bolts are standard fitting plus a 1" long nut extension which gives quicker and easier access to spanner. Weight 1 oz. (28 gms.)



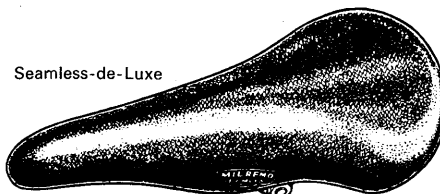
SEAT PILLARS

Standard 8" dural pin. Available in diameters 3, 4 and 5. Weight 2½ oz. (63 gms.)

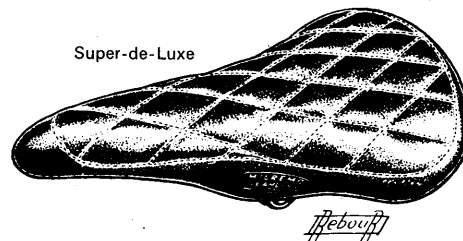
26.2 26.8 27.2



Freccia d'Oro



Seamless-de-Luxe



Super-de-Luxe

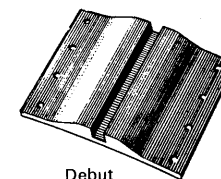


SHOE PLATES

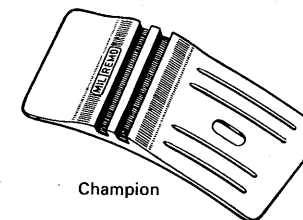
MILREMO provides you with perfection in foot comfort so essential to contented cycling. Whether you are racer or tourist you will appreciate the fitting of these products from the MILREMO design centre.

'Debut' Made in a proved new material for shoe plates—hard plastic—these plates are ultra-light and hard wearing. Carefully shaped to fit the sole with deep pedal slot. Size 1½" x 2". Available red, white or blue. Weight only ½ oz. per pr. (14 gms.)

'Champion' Perfectly formed in ultra-light hard plastic, these shoeplates will outlast those made in alloy. One piece construction in the popular extra long curved design giving full support to the instep. Two pedal slots giving an alternative foot position when hill climbing. Rustless and attractively coloured finish of red, white or blue. Complete with fixing tacks. Size 3¼" x 1⅝". Weight 1 oz. pr. (28 gms.)



Debut



Champion

SPANNERS

'Riparo' 10 superb ultra light tools in specially treated hardened steel in a polished rustless finish, packed neatly in a plastic wallet size 4¼" x 3¼" x ½", weighing only 7 oz. The kit provides:

12 closed spanners in sizes of 6, 7, 8, 9, 10, 11, 12, 13, 14, 15 mm.

1 chainwheel bolt spanner 7 mm.

1 double-ended box spanner, 8 x 9 mm.

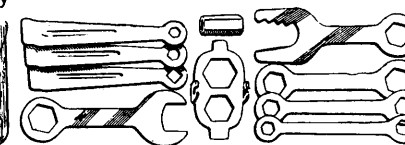
1 double-ended screwdriver

1 double-ended spoke nipple key

3 tyre levers

1 hub and pedal open spanner

1 hub cone spanner.

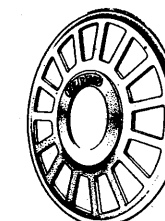


Riparo

The whole kit can easily be carried in jersey pocket, musette or saddle bag and offers a complete roadside repair service.

SPOKE DISCS

'Protecta' The disc that is perfect in every way. Weight—lightest ever, only ½ oz. Diameter—at 4¾" it is exactly right. Material—Hard plastic that will not rust or buckle. Finish—Choice of 3 attractive colours—red, white or blue.



Protecta



SPOKE NIPPLES

'Competition' All duralumin and made especially for wood insert rims. 15G only. Very light in weight giving a saving of 2 oz. on a 36-hole wheel.

'Standard' Brass—available for either 14 or 15G spokes. Extra long for wood insert rims.

TOECLIPS

2 Models of perfectly shaped toeclips to ensure maximum foot comfort.

'Club' The economy toeclip. Made of tempered steel and fully zinc plated. Complete with fixing plates. Medium size only. Weight 4 oz. (112 gms.)

'Campionissimo' 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 2 sizes, medium and long. Weight 3 oz. pr. (84 gms.)



TOESTRAPPS

For reliability, quality and economy you can't beat MILREMO's 3 models of toestraps.

'Club' Top quality chrome leather economy strap, fitted with wide quick release buckle. Available in natural or assorted colours.

'Corsa' A new style toestrap with special quick-release buckle. In a choice of five colours—red, white, blue, grey or green, this strap is wonderful value at its price.

'Competizione' A superlative toestrap in supple, wet resisting chrome leather with non-slip non-rusting quick release roller buckle. Available in a choice of red, white, royal blue, light blue, yellow, black, green, light green or bottle green.



TOESTRAP END BUTTONS

'Pull Stop' The handiest end button. Constructed in ultra-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 three colours—red, white or blue.

Remember—Sure feet are faster feet—fit these MILREMO accessories and feel the difference.



C'est
magnifique!



C'est
MILREMO

TOURING BAG STRAPS

'Club' 7" x 5/8". Especially made for saddle bags. Strong leather straps with non-rust buckles. Choice of 2 colours—black or white.

'Club' 15" x 5/8". The strap with ample length to secure cape or tub roll to saddle bag. Black only.

TRANSFERS AND PLAQUES

Brighten your 'bike' with MILREMO transfers. Easy to fit to any part of your cycle, MILREMO transfers and plaques are in attractive colours and will not peel once fitted.



SINGLE TRANSFERS (Water Slide Fixing)

- (1) Small round 3-colour—ideal for rims 1" dia.
- (2) Long 3-colour transfer for frame tubing, 6" x 3/4".
- (3) Olympic bands—5 colours, 4" x 1".

Fixing is simply made by removing the protective backing, soaking in water for a minute and fixing to the desired place.

METALLISED PLAQUES

Round 3-colour wafer thin metal in 2 sizes 1 1/4" and 1 3/8" diameter.

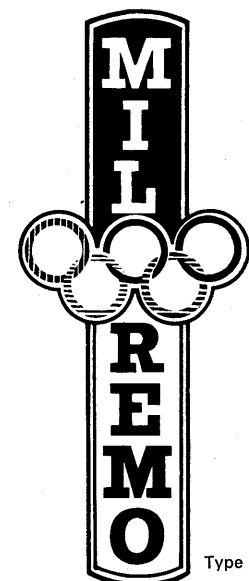
(Before fixing plaque be sure the frame is clean, dry and free of grease. Reactivate the adhesive file back lightly with a soft brush dipped in acetone. Instant adherence is made with hand or cloth pressure.)

MULTI-COLOURED DRY-FIX SELF ADHESIVE TRANSFERS

- (1) Small oval multi-coloured for any part of your cycle, 1" x 3/4".
- (2) Large—Type A, 4 1/2" x 1 1/4" vertical MILREMO motif with Olympic bands.
- (3) Large—Type B, 4 1/2" x 1 1/4" vertical MILREMO motif with Olympic rings.
- (4) Stay transfer 4 1/2" long with EQUIPE MILREMO STAR SERVICE motif.
- (5) As above but wing pattern. 3 3/4" long.
- (6) Large transfer 3 3/4" x 1 1/2". Especially for bottles.

RIM TRANSFERS

Small transfers—self adhesive, designed to fit all MILREMO rim models—CLUB—CORSA—RECORD—WELT—MEISTER—GIRO—SUPER RECORD.





TUBULAR TYRES

MILREMO tubular racing tyres have attained tremendous popularity in recent years. Manufactured by the finest craftsmen in Europe from the best materials available, there is a perfect MILREMO tyre for every purpose. In addition MILREMO tubulars are offered at prices which are unbeatable. The range of 11 tyres is as follows:

'Mondiale' New and unbeatable for value. Not to be compared with similarly priced fully vulcanised tyres. Fine ribbed tread. **Weight 280—300 gms.**

'Kermesse' Superb economy tubular with all red mixed tread and ribbed side walls. **Weight 340—360 gms.**

'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. **Weight 450—460 gms.**

'Cadetti' Similar in design to 'SPORTIVO' but weighing less—only **330—340 gms.** The ideal tubular for the beginner or for general purpose.

'Specialissimo' Extra fast road tyre with multi-ribbed black tread. **Weight 290—300 gms.**

'Normal Cross' A special sturdy tub for the cyclo-cross enthusiast, with rough file sides and raised V-cross centre section. **Weight 380—400 gms.**

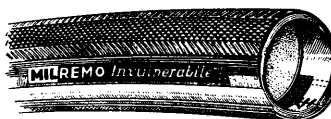
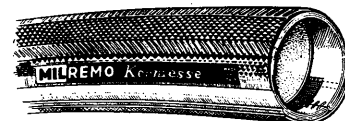
'Special Sport' A short distance road tyre with a fine ribbed centre tread and translucent side walls giving safety in all weathers. **Weight 280—300 gms.**

'Record' Super fast extra light road tyre with fine ribbed tread. The automatic choice now of champions. **Weight 200—220 gms.**

'Invulnerable' The favourite for the road rider requiring a really reliable tubular. Almost unpuncturable with an all purpose safe tread fitted over breaker strip. Light enough at **260—280 gms.** for the most important event.

'Criterion—Cotton' Without doubt today's leading speed tyre. Ultra-fine matt 'satino' tread sure to be popular with the short distance record breaker. **Weight only 180—190 gms.**

'Criterion—Silk' As above but in silk quality. **Weight only 180—190 gms.**



TUBULAR TYRES

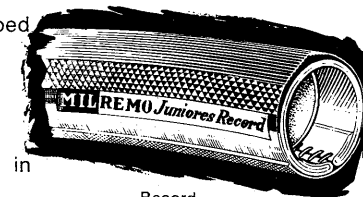
For the small wheel rider three models of MILREMO tubulars are also available in **size 17"** for Moulton size sprint rims.

'Juniore's' All purpose design with file tread and ribbed sides.

'Record' Super fine ribbed tread.

'Invulnerable' Top quality tyre with file tread.

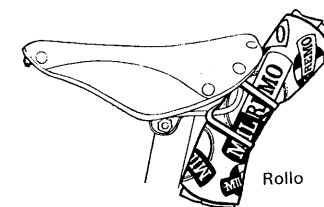
All MILREMO tubulars are backed with service in Great Britain.



Record

TUBULAR TYRE CARRIERS

'Rollo' Strong fluorescent p.v.c. roll 11" x 16" with embossed MILREMO motif. Perfect for protecting spare tubular or cape.



Rollo

TUBULAR TYRE COVERS

'Extra' A superior quality article—smooth black centre band, strong cotton walls, brass fastening hooks.



Extra

TUBES

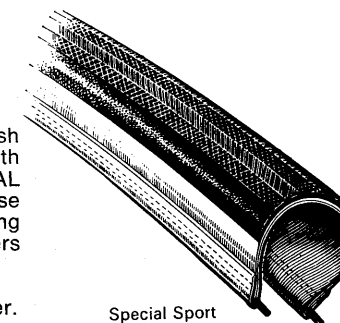
'Special Sport' Specially made to fit the MILREMO SPECIAL SPORT HP tyre. Made of top quality rubber and fitted with Presta valve. **Size 27" x 1.1/16"**. **Weight 4½ oz. (126 gms.)**

'Invulnerable' As SPECIAL SPORT but **size 17"** for Moulton. **Weight 2½ oz. (77 gms.)**

TYRES—(wired on)

'Special Sport' A superb hand-made tyre. The finest British **size 27" x 1.1/16"** high pressure ever constructed with extra fast file tread. To ensure a perfect fit only SPECIAL SPORT inner tubes must be used with these covers. Use care at all times to avoid damage to the wires when fitting—hand-made tyres are always a tight fit and tyre levers should not be used. **Weight 11 oz. (308 gms.)**

'Invulnerable' Hand-made tyre for the **17"** wheel cycle user. File pattern tread with translucent side walls. **Weight 8 oz. (224 gms.)**



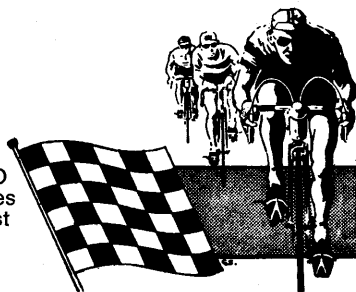
Special Sport



MAKE A MOVE...



FOR MILREMO



**MIRACLE
MARQUE**

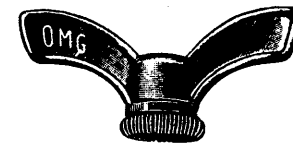
MILREMO

and let MILREMO
quality accessories
help you to be first
past the post.

O.M.G.

WING NUTS

Dural Racing pattern with steel serrated cone for maximum security. Set of 4—Weight 2½ ozs. per set (71 gms.).



OZANNE

THORN CATCHERS

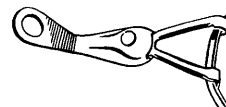
The best—made in fine steel wire and fully adjustable in all directions. Exclusive gold finish. Weight ½ oz. per pair (14 gms.).



PELISSIER

THORN CATCHERS

The original racing thorn catcher in the lightest duralumin. Designed by the famous French Champion Charles PELISSIER it is cleverly spring loaded and pivoted at its centre. Highly polished and streamlined it enhances the appearance of any machine. Weight ½ oz. per pair (14 gms.).



One of the oldest and most reputable firms in the world that specialises only in making cycle sport handlebars and stems. Despite their competitive prices PHILIPPE products have a reputation for being first class in every respect and for many years have been the choice of the champions.

PHILIPPE

HANDLEBARS

There is a choice of 4 models in de luxe chrome steel and 2 in polished duralumin.

Chrome Models

13 Americaine is for track use with a good forward reach.

14 Sprinter is also for track but with a deep drop for sprinting.

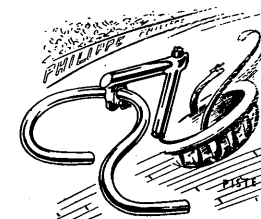
9 Franco Belge is the popular square pattern 38 cms. wide for road work.

26 Porteur is a flat town or country bar with a parallel grip in either 38 or 42 cms. width.

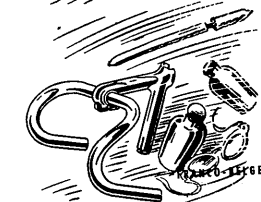
Dural Models

28 Brighton is a slightly up-turned town bar with polished finish.

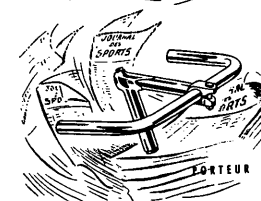
31 Trials Sport is a similar bend but flat, ideal for touring.



13 Americaine



9 Franco Belge

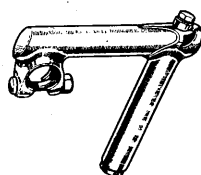


26 Porteur



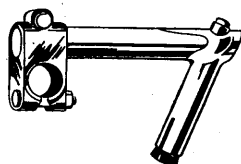
A choice of 3 models in de luxe chrome steel, all complete with expander bolt and cone.

16 Aero is a super chrome luxe stem with an underslung bar clip. Available in all sizes from 7 to 14 cms. forward. This is the ideal stem for track racing.



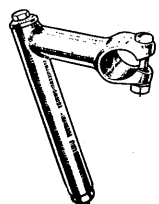
16 Aero

37 Adjustable is the favourite among track riders requiring an adjustable reach. Constructed in best chrome steel with an attractive long pointed lug, the slider is machined from the solid and securely locks onto the round extra long forward stem.



37 Adjustable

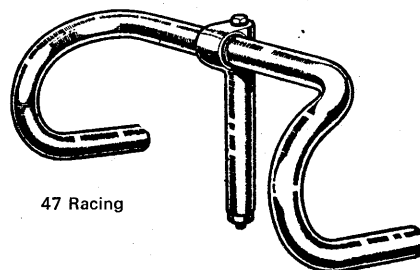
42 Route is a light chrome steel welded stem with a forward opening clip. Available in three forward lengths of short, medium and long. Perfect for road use.



42 Route

JUVENILE HANDLEBAR AND STEM

47 Racing. Made in polished duralumin this is the perfect copy of the popular square pattern adult racing bar and is available either with a close-up stem or with a 2" forward reach. Either model is complete with expander bolt and cone.



47 Racing

HANDLEBAR STEMS

PATURAUD

Stage Races. Made of the finest tempered steel PATURAUD Toeclips are designed to give the maximum grip between shoe and pedal. The very finest chrome leather is used in the manufacture of the toeclip strap—no scraps or rejects from the tannery.

TOECLIPS

16C Standard. Chrome plated, covered in chrome leather. Medium and long. Weight 3 ozs. pair (85 gms.).

18C Junior—Femina. As 16 leather covered short pattern. Weight 3 ozs. pair (85 gms.).

23 Automatic. Chrome plated adjustable to fit all sizes. Top and base firmly clamped together with studs giving a choice of five non-slip positions. Easily altered. Weight 4½ ozs. pair (121 gms.).

23C Automatic. As 23 but leather covered. Weight 4½ ozs. pair (135 gms.).

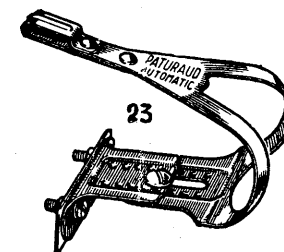
20. Chrome plated with clamping bolt and plate for fitting to rubber pedals. Weight 4 ozs. pair (113 gms.).

27 Ville. Chrome plated for town use without toestraps. Weight 2½ ozs. pair (71 gms.).

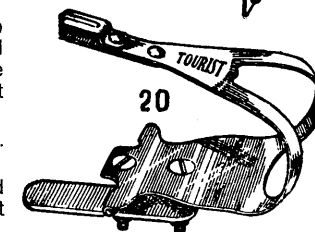
109 Coureur. Extra strong toeclip in cadmium plated piano wire formed in the modern square shape. Weight 3 ozs. pair (85 gms.).

110 Duralinox. Light rustless dural available polished or attractive colours. Weight 2 ozs. pair (56 gms.).

NOTE: All PATURAUD Toeclips are supplied complete with fixing plate and bolts.



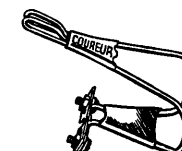
23



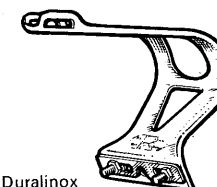
20



27



109 Coureur



110 Duralinox

TOECLIP COVERS

38 Plescho. Solid chrome leather toeclip cover held by toestrap. Full protection against cold, wet and mud. Weight 2½ ozs. pair (71 gms.).



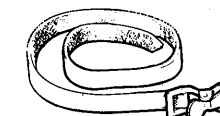
TOESTRAP

105 Duralinox. Chrome leather with rustless ultra-light QR buckle.

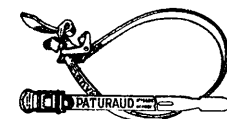
30 Super. As above De Luxe quality with special tie-end acting as a grip for tightening or a stop when releasing.

30C Campionissimo. Super quality toestrap with Italian style QR buckle.

All Types of Straps available in Red, Blue, Gold, Green or Natural colours. Today's Cyclists demand the best—PATURAUD Accessories.



105 Duralinox



30 Super

30C Campionissimo





Cycle accessories for the cyclist who wants quality at economical prices—new in ideas—first rate in design—the best of materials—a combination that ensures success.

BOTTLES (Standard)

313 Polythene—the best value in full sized bottles ever offered. With easy to grip ribbed sides it is fitted with a special double seal press-on cap that is holed for a drinking tube. When not in use the centre hole is closed with a neat hinged plug. Available in attractive colours—red, white, blue, yellow—2½ ozs. (64 gms.).

314 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. The chart below shows the progressive drop in temperature over a period of 3 hours. 5 ozs. (142 gms.).

Hour	0	1	2	3
C°	+85	+61	+54	+45
F°	+185	+141	+129	+113

315 Thermic bottle for sporting use and fitted with a spring catch hook for attachment to belt, rucksack, saddle bag, etc. 5½ ozs. (156 gms.).

BOTTLES (Small)

500 'Bambino' ribbed polythene bottle—small size to fit the Bambino cages—colours as 313 bottle. 1½ ozs. (49 gms.).

311 Hip flask. Capacity 100 cc. Made in white plastic and fitted with a plug top which eliminates leaking when carried in hip pocket. 1 oz. (28 gms.).

BOTTLE CORKS

313/C Available as a separate item to fit 313 bottle. Colours—red, white, blue, yellow.

BOTTLE CAGES

REG cages are unbeatable for value. All models are fitted with a quick release spring loaded grip.

162 Handlebar model, chromed steel strip. 4½ ozs. (128 gms.).

164 Down tube model as above—both types are drilled for lightness. 3½ ozs. (106 gms.).



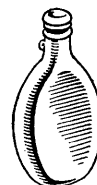
313



315



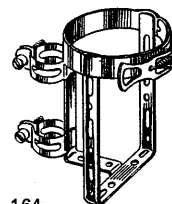
500



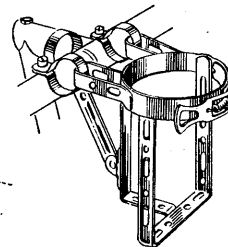
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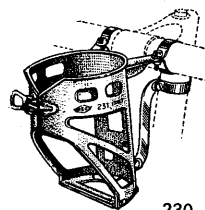
313/C



162



164



230

230 'Bambino' plastic handlebar model for Ref. 500 bottle. Colours—red, white, blue or yellow. 1½ ozs. (49 gms.).



BRAKE CABLE CLIPS & GUIDES

751/25 Chrome plated top tube clip. 1" dia. loop at top, weight ½ oz. per set 3 (14 gms.).

751/28 As above but for down tube. 1½" dia. loop at side.

756/28 As 751 but with loop on both sides.

752 Chrome plated chainstay clip. ¾" dia. loop at top.

753 Chrome plated chainstay clip. ½" dia. loop at top.

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

748 Plastic cable clamp, double open pressure fitting.

747 As above for triple cables.



751/25



751/28



752



753



749



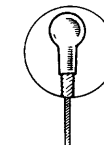
748



747

BRAKE CABLE PROTECTORS

350 Plastic terminal cover. An essential fitment to all brake and gear inner wire ends. Avoids frayed cables.

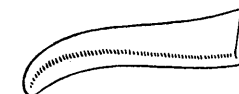


350

BRAKE LEVER SLEEVES

351 'Weinmann' pattern lever sleeves in coloured plastic—red, white, blue, grey, yellow, green.

346 Plastic pin pattern sleeves. Colours as 351. Dia. 5/16" × ¾".



351



346

CHILD CARRIERS

Zinc plated steel for quick assembly to handlebars of folding cycles.

32 with Vinyl plastic saddle and footrests.

FLAG STAFFS

3037 Chrome plated steel, hub attachment.

3053 Twin model to fit to front brake bolt.



3037

HANDLEBAR END CAPS

273 Plastic cap—red, green, yellow, grey or white.



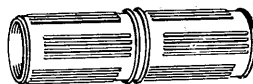
HANDLEBAR GRIPS (Standard)

Only REG offers such a large range of grips. Finest quality at sensible prices.

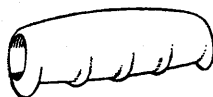
- 338 Standard plastic grip—assorted colours— $\frac{7}{8}$ " dia.
- 348 Finger grip in marbled plastic— $\frac{7}{8}$ " dia.
- 336 Plastic with finger grip in assorted colours— $\frac{7}{8}$ " dia.
- 337 As 336 but with contrasting colour handguard.
- 340 Plastic with finger grip—colours—red, white, blue, grey or black— $\frac{7}{8}$ " dia.
- 460 Pin pattern plastic with contrasting handguard—assorted colours— $\frac{7}{8}$ " or 15/16" dia.
- 458 Pin pattern in extra soft plastic—assorted colours— $\frac{7}{8}$ " or 15/16" dia.

HANDLEBAR GRIPS (Juvenile)

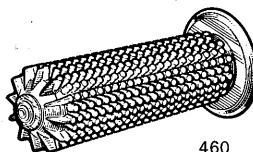
- 335 Plastic with finger grip—assorted colours— $\frac{3}{4}$ " or $\frac{5}{8}$ " dia.
- 459/16 Plastic with finger grip and handguard—assorted colours— $\frac{5}{8}$ " dia.
- 459/19 Plastic with finger grip and handguard—assorted colours— $\frac{3}{4}$ " dia.



338



348



460

HANDLEBAR GRIP STREAMERS

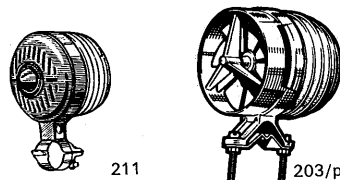
- 274 Plastic streamers for inserting into handlebar grip end—assorted colours— $\frac{1}{4}$ oz. pair (7 gms.).



274

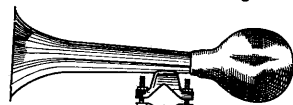
HORNS

- 211 'Comet'—two-tone plastic in red or blue. Attractive metal and plastic horn attached to bars with single screw clip.
- 290 Standard plastic bulb horn—red or blue.
- 289 Chrome plated bulb horn with metallised hood—blue, red or green.
- 287 Chrome plated steel—suitable for cycle or moped.
- 203/P 'Comet' type with built in propellor—two-tone horn.
- 204 'Comet' no propellor—one-tone—red or blue.

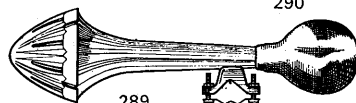


211

203/p



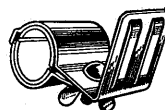
290



289

LAMP BRACKETS

- 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. 3 $\frac{1}{4}$ ozs. (92 gms.).



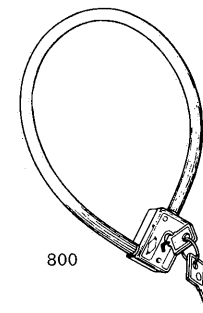
362



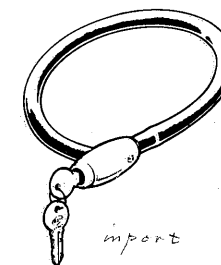
LOCKS

All REG cycle locks are supplied with 2 keys.

- 800/40 Strong plastic covered steel loop, 16" long, red or grey—4 $\frac{1}{4}$ ozs. (121 gms.).
- 800/45 Strong plastic covered steel loop, 18" long.
- 801/50 Vinyl covered steel loop incorporating chrome body, 20" long, red or grey—7 ozs. (198 gms.).
- 802/50 Hexagonal automatic lock. Steel cable covered with red or grey plastic. 20" long—7 $\frac{1}{2}$ ozs. (213 gms.).



800



- 802/60 Hexagonal automatic lock. Steel cable covered with red or grey plastic. 24" long—8 $\frac{1}{4}$ ozs. (234 gms.).

MASCOTS

- 249 'Swallow'—body in ivory white plastic—wings in chrome-plated brass. Mudguard fitting.
- 5024 'Lion' design in polished light alloy.

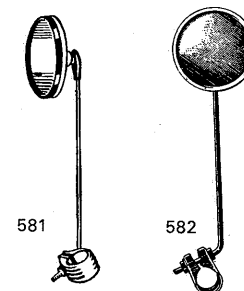


249

MIRRORS

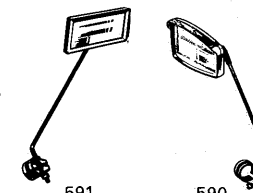
Six extremely well made lightweight mirrors at economy prices.

- 581 Round plastic frame, 2 $\frac{3}{4}$ " dia. with chrome pillar and clip. Available red, blue or grey—2 $\frac{1}{4}$ ozs. (64 gms.).
- 58 As model 581 but all chrome. Mirror head is fastened to pillar with screw which allows easy adjustment—2 $\frac{1}{2}$ ozs. (71 gms.).
- 582 Round plastic frame 3" dia. with attractive fluorescent rim in red, blue or grey—3 ozs. (85 gms.).
- 583 Similar to 582 but rectangular, 4 $\frac{3}{8}$ " x 5 $\frac{3}{8}$ "—3 $\frac{1}{4}$ ozs. (92 gms.) Both models have pillar in ZP steel and clips in strip steel.
- 591 Rectangular plastic 4" x 2" with zinc plated pillar and clip—red, blue or grey.
- 590 As 591 but oval shape 4" x 2 $\frac{3}{8}$ ".



581

582

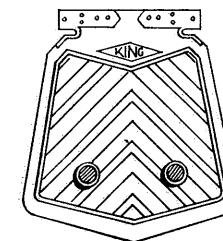


591

590

MUDFLAPS

- 213 Standard white plastic with reflector studs. 4 ozs. (113 gms.).



213



OIL CANS

- 325** Small thumb push model made of transparent plastic, with fine nozzle. 50 cc. capacity— $\frac{3}{4}$ oz. (21 gms.).
- 326** As above but larger—125 cc. capacity—1 oz. (28 gms.).

PRICE HOLDER

- 660** Adjustable to all angles—fits tubes $\frac{7}{8}$ "—1" dia.

PUMPS

REG pumps are 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 plastic cone.

- 13 Juvenile**—white either 9" or 10" long (230–270 mm).
- 13 Standard**—white either 12" or 15" long (300–380 mm).

- 13 Sports**—white 17" long (430 mm).

All above pumps are fitted with 5" best quality braided connections with brass fittings for Dunlop-Sclaverand HP valves.

- 9** **Racing**—white with handle and grip in ABS chromed plastic. Fitted 8" braided connection. Lengths 17" (430 mm), 18" (460 mm), 19" (485 mm).
- 8** **Racing**—white with patented push-on racing adaptor and horned rest built into the end of hand grip. Handle and grip in contrasting colour of red, blue or grey. Supplied complete with separate ultra light pump cup in colour to match handle and grip. Fitted with extra good quality leather washer and seamless alloy plunger.
- 8/B** As above but without separate pump cup.
- 8/C** As model 8 but with handle, grip and separate pump cup in ABS chromed plastic.
- 8/CB** As model 8/C but without separate pump cup.
- All model 8 pumps are available in lengths of 17½" (445 mm), 18½" (465 mm), 19½" (500 mm).

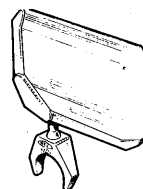
PUMP CLIPS

- 764** Standard clip-on type alloy pump pegs. Strong and practical, these pump pegs are in a rustless finish.
- 376** 'Ortelli' top pump cup and adaptor holder. Suitable for a pump with a fitted adaptor, the domed top cup is drilled for lightness and is a positive stop, the lower cup has a holder for the pump adaptor. Easy to fit when quickly replacing the pump. Chrome finish in .1" or 1½" dia. 1½ ozs. (42 gms.).
- 376/S** 'Ortelli' top pump cup only. For use with a pump fitted with horn rests. $\frac{3}{4}$ oz.
- 8/S** Racing pump cup for No. 8 pump. This cup is in two parts. A shaped metal clip secures the plastic cup which is shouldered to prevent movement once cup and clip are fitted. $\frac{1}{2}$ oz. (14 gms.).

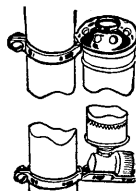
325



660



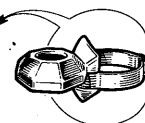
8



376



764

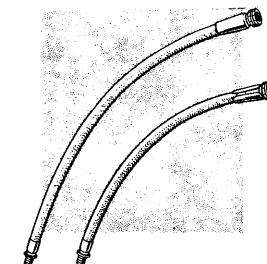


8/s



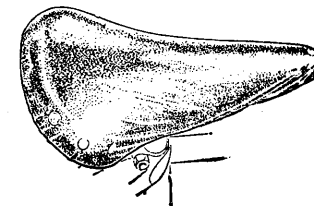
PUMP CONNECTIONS

- 50/F/13** High pressure, coloured nylon 5" braided. (13 cm.).
- 50/F/25** High pressure, coloured nylon 8" braided. (25 cm.).



SADDLE COVERS

- 16** Extra strong plastic with well stitched elastic edges. Gives full protection and will fit all types of saddle.

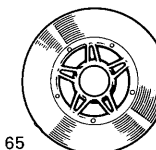


SPOKE DISCS

- 67** In super chrome finish. Lightweight spoke protecting disc—4½" dia. suitable for all makes of hubs and derailleur gears.
- 65** Polished alloy spoke disc with large plastic extension—7½" dia.



67



65

SPOKE NIPPLE KEYS

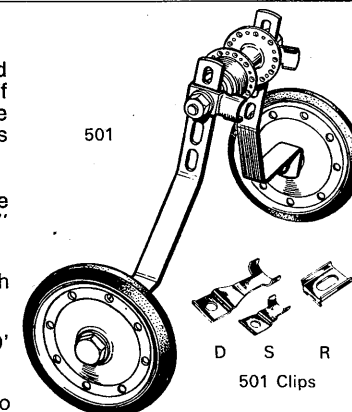
- 981** Round all chrome for 4 nipple sizes—2 ozs. (56 gms.).

STABILISERS

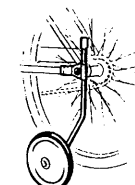
REG stabilisers are renowned for quality, long life and for easy fitting. A range of 8 types enables every type of cycle up to 22" wheels to be fitted with stabilisers. The stays are made from best quality steel and the wheels have solid centres and Delryn plastic tyres.

- 501/R** Strong stay design with slots enabling one type of stabiliser to fit cycles with wheel sizes 12" to 18". 'R' clip for roadster fork ends.
- 501/S** As above but with 'S' clip to suit cycles with round chainstays.
- 501/D** As above but with 'D' clip to suit cycles with 'D' style chainstays.
- 502/14** Rigid chrome rod pattern with chainstay clip to fit cycles with 14" wheels.
- 502/16** As above but for 16" wheels.
- 502/18** As above but for 18" wheels.
- 502/20** As above but for 20" wheels.
- 503** Patented extended model in bright zinc plated finish with universal fixing clip. Fully adjustable for 14" to 22" wheels.

501



D S R
501 Clips

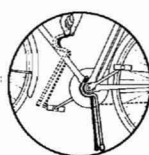
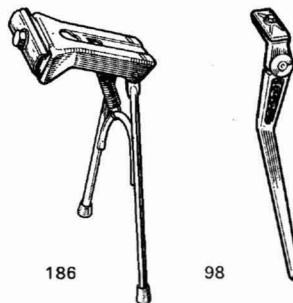


503



STANDS

- 98 Top quality all polished alloy side prop stand—kick pattern with strong clip fastening. 9½ ozs. (269 gms.).
- 99 As above but for brazed-on lug.
- 186 Central double prop stand with strong return spring. Plastic covered non-slip feet.
- 182 Detachable display stand. Ideal for fitting to cycle when storing in garage or loft. Bracket is protected by a nylon strip on stand to eliminate damage to paintwork. Stand feet are plastic covered.
- 95 'MEC' new model kick pattern side stand. Bright zinc plated steel with plastic cover on leg end. Strong return spring. Fits socket head bolt to a plate welded to frame. Available 26"—28" wheel size, or 14, 16, 18, 20 or 24" to order. 8 oz. (227 gms.).



- 94 As 95 but for cycles with standard fitting. Fastening is made secure by a shaped clip which eliminates constant adjustment. 10 ozs. (283 gms.).

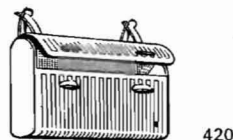
TOESTRAPS

- 73 Best chrome leather, ZP QR buckle. Assorted colours.



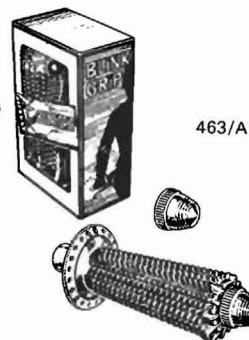
TOOL BAGS

- 420 All plastic in attractive colours of red, blue, white or black. 1½ ozs. (42 gms.).



TRAFFICATORS

- 463/A 'Blink Grip'—another exclusive REG safety idea. Battery operated flashers incorporated into pin pattern grips with handguard. The flasher unit and battery is inserted into the handlebar ends. The flashers work by pressing a pressure point on the grip. Available in red, blue or green. 5 ozs. per pair less batteries (142 gms.).



TYRE LEVERS

- 522 Set of 3 zinc plated tyre levers. Light in weight, only 2½ ozs. per set (78 gms.).



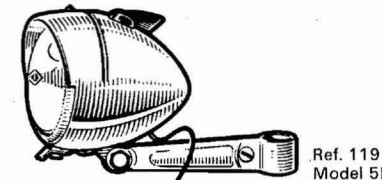
A full range of superb quality lighting equipment designed to meet the needs of all cyclists. Look for these special features.

- ★ Unbreakable glasses.
- ★ Exceptionally heavy chrome plating.
- ★ Positive switches.
- ★ Double bearings on dyno unit.
- ★ Stylish appearance.
- ★ Light but strong construction.

Backed by a full spares service we are proud to be able to offer you RINDER—a great new name in lighting equipment. Choose from the following models:

BATTERY LAMPS

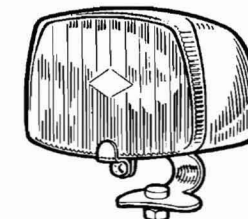
Ref. 119—Model 5P.—2½" dia. front headlamp with positive on-off switch. The single cell battery can easily be replaced by removing the glass front. Chrome plated and supplied complete with bulb and fixing bracket. Weight 5½ ozs. (149 gms.).



DYNAMO HEADLAMPS

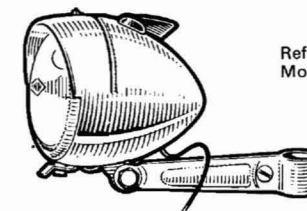
(Supplied complete with dyno wire, bulbs and fixing brackets).

Ref. 112—Model 1. Modern square design (50 mm. x 70 mm.) for fitting to front mud-guard or brake bolt. Chrome plated.



Ref. 112
Model 1

Ref. 114—Model 4. 3" (75 mm) dia. headlamp. Silver grey body with chrome rim. Weight 7 ozs. (198 gms.).



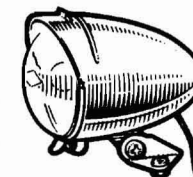
Ref. 117
Model 4

Ref. 115—Model 4. As above but all chrome plated.

Ref. 117—Model 4. As above but with 2-way switch for main and dip beam. All chrome.

Ref. 116 same in enamel finish.

Ref. 118—Model 5. 2½" (65 mm) dia. All chrome. Weight 5 ozs. (142 gms.).



Ref. 118
Model 5



Also available two larger diameter (85 mm) headlamps Ref. 124 and Ref. 125 with same specification as Ref. 116 and 117.

S TYPE BRACKET all headlamps and complete dynamo sets fitted with British S type brackets unless otherwise specified except Ref. 112.

Brackets shown with Headlamps Refs. 119, 117 and 118 are available to order at no extra charge.



**a great NEW
name in LIGHTING!**

DYNAMO SETS

(Supplied complete with BS.3648 stay fitting rear lamp, cable and fixing clip).

Ref. 260—Model 64 dyno—Ref. 114 headlamp—Ref. 287 rear lamp.

Weight 22½ ozs. (638 gms.).

Ref. 261—Model 64 dyno—Ref. 115 headlamp—Ref. 287 rear lamp.

Weight 22½ ozs. (638 gms.).

Ref. 263—Model 64 dyno—Ref. 117 headlamp—Ref. 287 rear lamp.

Weight 22½ ozs. (638 gms.).

Ref. 268—Model 64 dyno—Ref. 112 headlamp—Ref. 287 rear lamp.

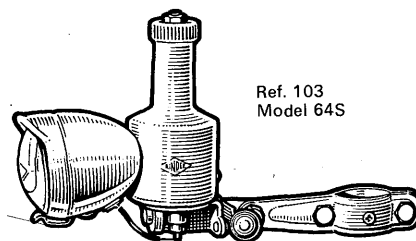
Weight 20½ ozs. (582 gms.).

See Price List for other combinations.

DYNAMO WITH HEADLAMP ATTACHED

Ref. 103—Model 64S. Front fork fitting dyno unit with chrome plated 1½" dia. headlamp attached. Fixing bracket is made secure with a small grub screw incorporated into the clip. Headlamp to dynamo connection is of flat copper wire ensuring constant contact over the roughest roads. Weight 15 ozs. (426 gms.).

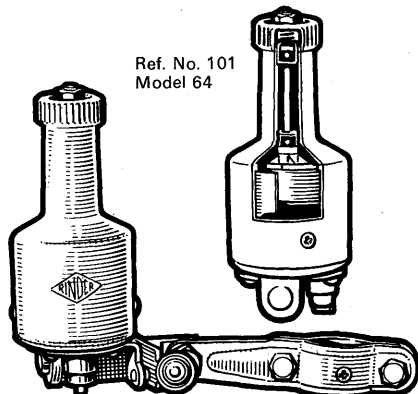
Note: Ref. 103 set does not include rear lamp.



Ref. 103
Model 64S

DYNAMO ONLY

Ref. 101—Model 64. As fitted to all sets and including fixing clip. The dynamo has a double row of ball bearings to give easy running. Connection to the tyre is made by pressing a small lever. A strong tension spring ensures positive adhesion between tyre and pulley. Weight 12½ ozs. (354 gms.).



Ref. No. 101
Model 64

REAR LAMP

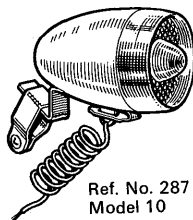
Ref. 287—Model 10. Stay fitting—body in white plastic with special modern design red glass. Sprung terminal connection. Complete with bulb and wire.

Note: For bulb sizes see "Technical Data" Section.



**A GREAT NEW
NAME IN LIGHTING**

Rear Lamp complies with current British Standard Institution Specification BS3648.



Ref. No. 287
Model 10

ROBERGEL

The World's finest cycle Spokes. One of the oldest firms in the world specialising only in the manufacture of spokes, ROBERGEL have been proud to have supplied the needs of cycling champions from the earliest days. Recent stars that have ridden ROBERGEL to success include ANQUETIL—BOBET—SIMPSON—VAN STEENBERGEN—RIVIERE—MERCKX and many others, all proving that ROBERGEL means reliability. Available in 3 qualities—

"Etoile"—Stainless steel in PLAIN gauge only, specially treated by the ROBERGEL process of high temperature plating. Tensile strength 14,930 to 16,360 lb./sq. inch.

"Sport"—Special stainless steel spokes in DOUBLE BUTTED gauges—the choice of all the "Tour" riders and world champions. High tensile strength 19,900 to 21,300 lb./sq. inch.

"Trois Etoiles"—Luxe type spokes guaranteed throughout stainless chrome nickel in 15×17 DOUBLE BUTTED only. Tensile strength 17,068 to 18,500 lb./sq. inch. ETOILE spokes are also available in several lengths for MOULTON cycles in 14 plain gauge only and juvenile spokes in all lengths to order in 15G.



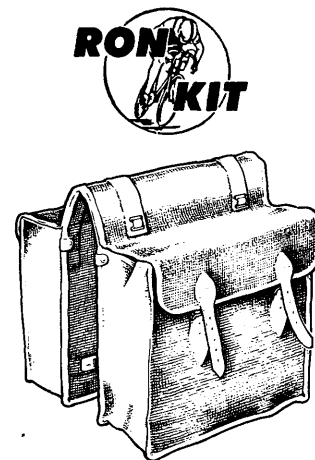
micro nipples

RON-KIT

To meet the ever increasing demand for quality touring equipment RON KITCHING has introduced a range of Pannier Carriers and Bags expertly designed and manufactured by craftsmen with years of experience of cyclists' demands. Only the finest materials are used ensuring years of wear and reliability.

HANDLEBAR BAG

"Spadale"—A real Tourist's bag designed to fit on the front handlebars with a large front compartment and also incorporating two back, two side and one front pocket all designed to carry tools, cape and other small items so often needed quickly at hand when touring. The top flap which incorporates a plastic covered map holder is held in place by a small elastic loop which fits over the expander bolt. All edges are leather covered, strongly sewn to prevent fraying. Chrome leather strips are incorporated along the top edge and down the centre to ensure the bag withstands the wear caused by friction incurred at these vulnerable points. Complete with chrome leather fixing straps. Size 10"×8"×5". Weight 18 ozs. (510 gms.). Black only.

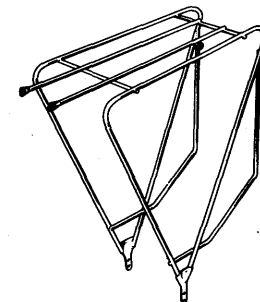


PANNIER BAGS

"Yorkie"—Heavy duty, fitted with long straps and deep inner flaps giving extra inches of space. Deep pockets at rear designed to accommodate any extra items needed when touring. Piped edges and leather reinforcements fitted to give added strength. Complete with chrome leather fixing straps and anodised buckles. Size 12"×12"×5". Weight 28 ozs. (793 gms.) per set.

PANNIER CARRIER

"Yorkie"—Light but strong. Made of highly chromed tubular steel. Easily fitted to seat stays and mudguard eyes giving maximum strength. Complete with fixing clips. Weight 26 ozs. (736 gms.).





TUBULAR COVER

"Protecta"—P.V.C. strengthened with nylon. Fluorescent centre band for added safety. Elasticated with hooks for fixing to spokes. Various colours. The cover side is embossed with the "RON KIT" motif. Can be supplied with your own Club or Sponsor's name at no extra cost for a minimum order of 50. Weight 14 ozs. (396 gms.) pair.



san Marco

A new and exciting range of cycle saddles, SAN MARCO, designed and manufactured with a skill that comes only from years of endeavour to produce "perfection". Using only the finest materials, each saddle is individually shaped to ensure comfort and lasting satisfaction. Edges are formed to prevent friction and wear of clothing, the robust clip is designed to provide both finer angles and complete security, all metal fittings are made from only high grade steel and are zinc-plated to ensure maximum life. SAN MARCO offer a range to meet the requirements of cyclists whatever their age. For unbeatable value and quality specify SAN MARCO. You can choose from the following models, which are only a few from the vast range.

JUVENILE—MATTRESS TOP

185/20 The "Popular" saddle. Top in vipla, zinc plated clip $\frac{5}{8}$ " or $\frac{7}{8}$ " with $\frac{5}{8}$ " liner. Choice of colours — Red/White; Blue/White; White.

005 Similar to 185/20 but with 2 coil springs.

0050 Open fronted design. Top in vipla with zinc plated clip. Plain Grey only. Clip as 185/20.

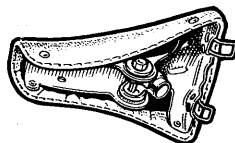
157 Top in plastic with zinc plated frame. Tan only. Clip as 185/20.

JUVENILE—RACING

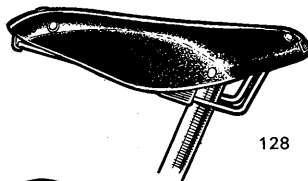
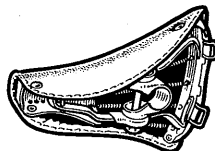
128 Sports design made from artificial leather. Solid sides with 2-wire frame. $\frac{5}{8}$ " clip. Black only.

097 Junior racing, similar to model 128 but slightly wider.

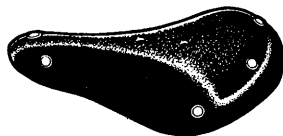
185/20



0050



128



097

SADDLES—continued

ADULT—MATTRESS TOP— $\frac{7}{8}$ " CLIP

0058 Top in vipla with zinc plated frame, without rear coil springs. Medium size. Choice of colours—Plain Tan; Dark Brown; Black; Red/White; Blue/White.

0055 Similar to Model 0058 but with 2 rear coil springs. Choice of colours —Tan/White; Black/White; Red/White; Blue/White; Dark Tan; Black; White.

117 Top in waterproof "skay" with foam insertion seat top. Zinc plated frame with 2 rear coil springs. Choice of 4 colours—Red/Oatmeal; Blue; Black; Oatmeal.

025 Top in waterproofed "skay" with zinc plated frame and 2 rear coil springs. Colours—Black; Oatmeal and Dark Tan.

057 Open fronted design. Made in "skay" with chrome plated frame and coil springs. Light Tan only.

0029 An attractive saddle made in plastic, zinc plated frame with coil springs. Available colours—Two-tone Light Tan/Dark Tan.

0083 Full size adult saddle made in "vipla", zinc plated frame and coil springs. Covered nose design. Choice of two colours—White or Black.

ADULT—RACING

0032 The finest value in racing saddles ever offered. Attractive design produced from artificial leather with solid sides. Chrome frame, Black or Brown.

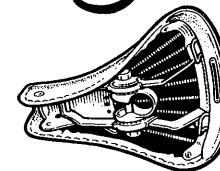
161 A quality saddle at a sensible price, well sprung frame with a plastic top, covered nose design. The top is easily removed for either replacement or cleaning. Strong "girder" type frame and fully adjustable clip. Black only.

POLO (High Rise)

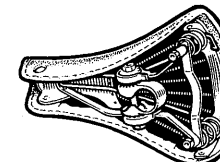
130 The popular "POLO" saddle, 18" long with a slight curve upwards towards the rear to give added comfort and support. Easily fitted to existing seat pin and supplied complete with saddle clip and support bracket.

Note: POLO saddles are made in an assortment of colours and materials (see Price List) and can be supplied with head and back rests.

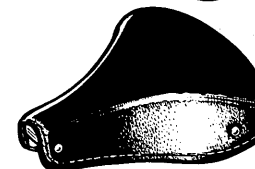
san Marco



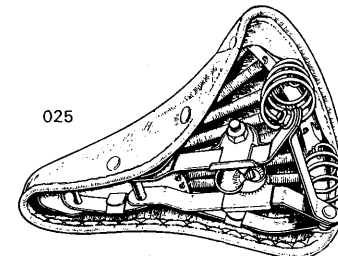
0058



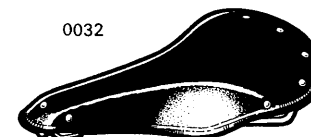
0055



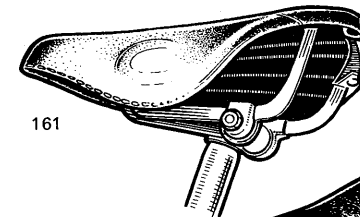
117



025



0032



161



130

SILUMA



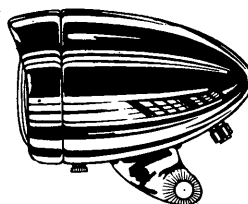
The SILUMA Cycle Dynamo is new because it supplies current from two separate sources. These are fed independently to the head and the rear lamp by two terminals. It is impossible, should the head lamp bulb fail, for the rear lamp to be overcharged and burn out. If either bulb fails the other will automatically continue to light normally. This new sensational feature of the SILUMA K2 Dynamo is allied to precision workmanship and design. Dynamo and head lamps are modern in every feature and are finished in high grade polished chrome. The SILUMA K2 Dynamo reaches near maximum output at only 6 m.p.h. **Specify SILUMA for satisfaction**—the world's finest cycle lighting.

Three models are available—

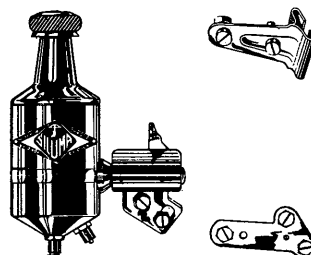
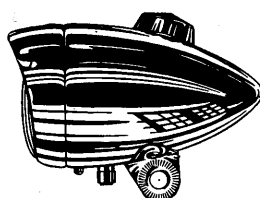
Sport K2 This set has a highly chromed headlamp 2" diameter with visor and single bulb. The dynamo is rear stay fitting on a well designed clip ensuring correct adjustment and alignment, with a generous thumb flick lever coupled with a strong release spring, making sure contact of pulley wheel to tyre. Pulley rubbers and rear lamp approved to British standards are optional extras. Weight less rear lamp 23 ozs. (651 gms.).

Sport Twin Similar to Sport K2 but with twin bulb headlamp 2" diameter. A neat one-way switch in grey plastic improves the overall appearance of the headlamp. Weight less rear lamp 25 ozs. (708 gms.).

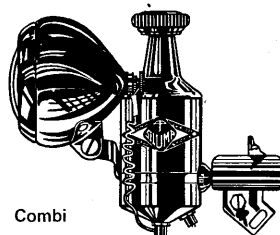
Combi The most popular of all front dynamo units the COMBI is sure to please the discerning user. Basically a K2 Dynamo with a small lamp attached by a strong bracket. The lamp which is 1½" diameter is also highly chrome plated. A strong fork fitting lamp bracket designed to eliminate any movement is supplied. Weight less rear lamp 20 ozs. (566 gms.).



Sport K2
Headlamp



Sport Twin

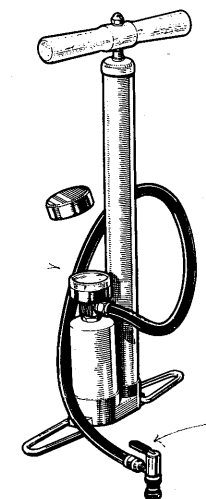


Combi

SCHEFFER-KLUT

TRACK PUMP

At last a Track Pump which does its job efficiently. Used and recommended by team mechanics all over the World. SCHEFFER-KLUT Pumps are strong, light and reliable. A sturdy base with a 20" long barrel 1½" dia. ensures minimum effort is required each time a tyre has to be inflated. Incorporated into the base but separate from the barrel is a pressure gauge. The 48" long rubber connection is fitted with an adaptor which will allow cycle, motor cycle or car tubes to be inflated. When not in use the strong wood handle removes for easy storage. Weight 5 lbs.



SIM

Assemblers and repairers agree that caged ball-races cut down fitting time by half. No counting of slippery steel spheres, no dabbling in grease, no wastage—just two seconds to drop-in the races, and then adjust.

In the past the only drawback has been that steel cages in heavily stressed bearings such as bottom brackets have been liable to break and cause damage.

This has been obviated in the new bearings marketed by SIM. These employ a separator in nylon that is unbreakable, lighter than steel, has less friction and in use keeps the bearings brightly polished. The balls themselves, 7 in number, are 6.350 mm (¼") in chrome-alloy steel with a Rockwell hardness figure of 63, plus or minus 3. They are to the Deutsche Industrie Norme 5401, true as to diameter plus or minus 14/1,000 mm and to sphericity 2/1,000 mm.

Steering-head races have 14 balls, 3.969 mm (5/32") diameter, to the same specification, but in steel separators. Also available are loose balls in ¼", 5/32", 3/16", 7/32" and ½" diameters packed in plastic boxes of 50 each size or cardboard boxes of 1,000 each size.



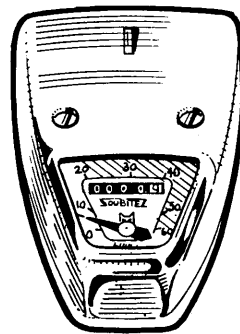
Head Race



Bracket Race

SOUBITEZ

NEW—A Dynamo Lighting Set incorporating a **speedometer**, made with the now popular square style headlamp of ample size $3\frac{1}{2} \times 2$ " it has neatly fitted into the top a HURET Speedometer. Fixing a new speedo cable does not necessitate removing the headlamp cover. The headlamp base is made of the strongest plastic and has a cover which is highly chromed. To change a bulb is a simple operation by removing two screws. The headlamp cover also incorporates a "tell tale" strip showing that the lamp is lit. The headlamp is complete with Stem Fixing Bracket. A neat attractive Dynamo completes the set and this unit also has a strong plastic base which houses the internals protected by a chrome cover. A small catch lever is incorporated into the cover and pressing this makes pulley contact with the tyre. The cable attaches through a small plate which is spring loaded to ensure a positive connection without the use of terminal nuts. This set **Ref. No. FA.941.N** comprises speedometer with cable and drive, dynamo with fixing clip and cable, headlamp and bracket and weighs only **22 ozs. complete.** (622 gms.).



Top View



Front View



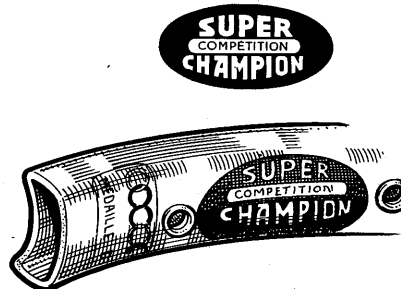
Side View

SUFFICIT

TROUSER BANDS made of strong spring steel and covered with black plastic. Offered at a sensible price; a necessary piece of equipment for the everyday cyclist.

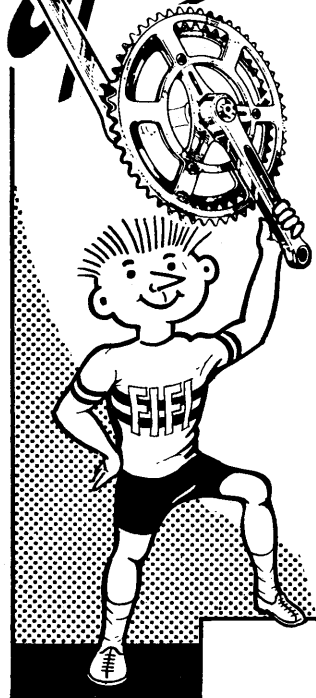


A new and exciting duralumin sprint rim named the **MEDAILLE d'OR** or **GOLD MEDAL**. Certain to be a favourite with the ultra lightweight enthusiast this rim must be the lightest ever to be made in all duralumin and fitted with reinforced water-tight ferules. Available in 27" standard size only and drilled 24/28/32/36/40 to choice. **Weight 9½ ozs. (260 gms.).** Also for Motor Pace following in size $24 \times 1\frac{1}{4}$ " (to special order only).



	T.A.		T.A.
T.A.			
	T.A.	T.A.	
	T.A.		T.A.
T.A.			
T.A.			
	T.A.		T.A. Specialities have always been used by the champions

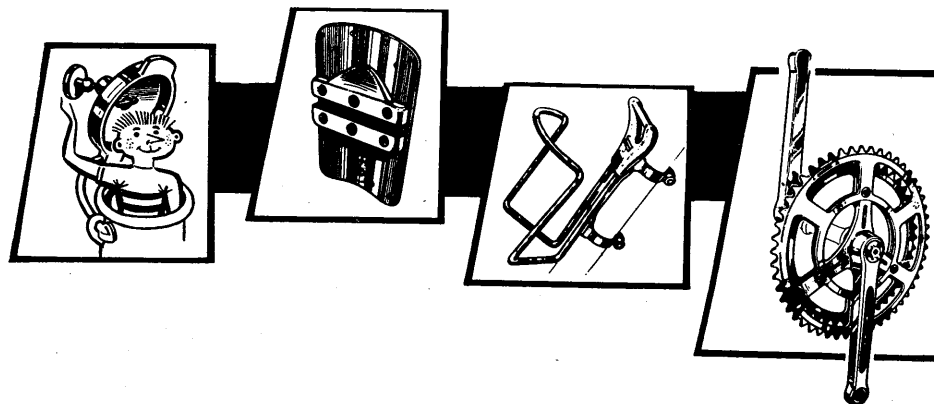
Spécialités T.A.



Since 1948 T.A. have answered all your transmission problems. PRECISION — QUALITY — ACCURACY — FINISH — WEIGHT — INTERCHANGEABILITY — RANGE — STANDARDIZATION — 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 **9 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.



CRANK SETS in light alloy

T.A. CRANK SETS in light alloy

Supplied **less** chainwheels (available separately to choice) but including a super chrome coated and polished bracket set and all the parts listed in the separate price list. Stocked in British threadings, but available also in metric to order.

NOTE: Always state axle and crank length when ordering.

W.1500 CRITERIUM 5-pin Crank Set

The tourist's favourite, taking chainwheels from 26 teeth. With the aid of a choice of 3 axle lengths and the patented T.A. method of attachment which permits a lateral adjustment of over 4 mm. on the patented right-angled axle, these cranks will give you accurate chainline on single, double or triple chainwheels. This crank set has **NO** hammered cotters—rusting parts—extractor tool required—loose axle end bolts, but it is **PLUS** adjustable chainline—patented solid drive on right-angled axle—ultra light weight (cranks 12½ ozs.—set 27½ ozs.). Cranks are secured by bolts, collars and bushes (Ref. 135) locked by a simple Allen Key (Ref. 136).

W.1690 PROFESSIONNEL 5-pin crank set

The all purpose crank set always popular with the rider who uses his machine for all kinds of cycling. All standard **5-pin** chainwheels (**from 26 teeth**) and adaptors will fit these cranks which are held in position by large-headed, extra long, axle end bolts on to the standard squared-end cotterless axle.

W.1693 PROFESSIONNEL 3-pin crank set

The latest introduction from T.A. and designed expressly for modern racing. With wider and more rigid crank form and extra solid short forged arms that will accommodate all the T.A. **3-pin** range of rings from a minimum of **36 teeth** up to **68**, this set gives at last the combination of rigidity of crank and rings plus a variation in teeth range that racers have long sought after.

W.1690T PROFESSIONNEL 5-pin TANDEM Crank Set

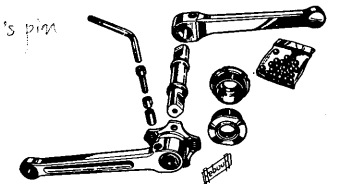
Comprising two sets of bracket fittings plus one W.515 R.H. crank (threaded R.H.)—two W.515 R.H. cranks (threaded L.H.)—one W.625 L.H. crank (threaded R.H.) making a cross-over drive Tandem crank set that will accommodate any of the 5-pin T.A. rings from 26 teeth upwards.

Remember T.A. cranks are available in 9 lengths as follows:

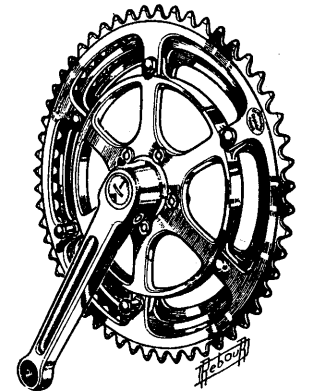
160—162.5—165—167.5—170—172.5—175—177.5—180 mm. (See key in TECHNICAL ADVICE Section for comparison).

NOTE: For full details of the composition of parts making up T.A. crank sets see our separate Price List.

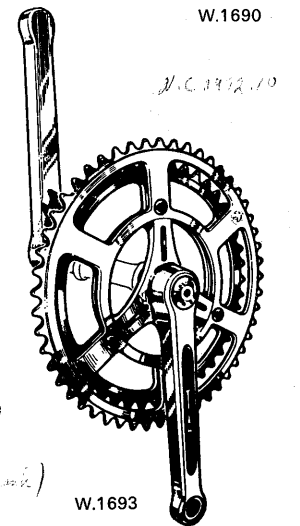
NC 72.10
CRITERIUM'S pin



W.1500



W.1690



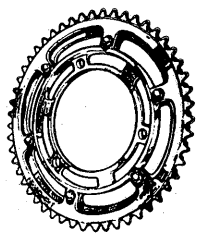
W.1693



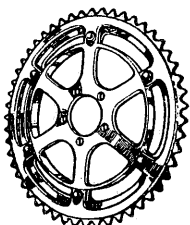
CHAINWHEELS in light alloy

Type PROFESSIONNEL on adaptors—range 43 to 68 teeth*

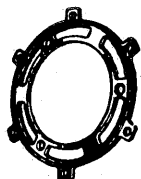
These adaptor sets offer the finest combination for racing. Double or triple chainrings for $\frac{1}{2} \times 3/32$ " chains are assembled on to an adaptor having a continuous double flanged rim that gives incomparable rigidity and ensures that the rings always remain true. The adaptor method also enables quick ring changes to be made due to the immediate detachability—the rings pass easily over toeclip and strap. The same adaptor rings fit either 3- or 5-pin adaptors.



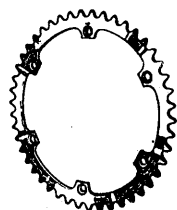
Complete Adaptor Sets
3-arm Double. Ref. 2173.
3-arm Triple. Ref. 3173.



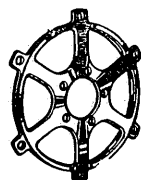
Complete Adaptor Sets
5-pin Double. Ref. 2175.
5-pin Triple. Ref. 3175.



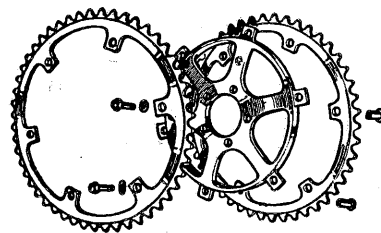
Road Adaptor
Ref. 173.



Inner Chainring
Ref. 106.



Road Adaptor
Ref. 175.



Outer Chainring
Ref. 104.

Note: Always specify outer or inner chainring with Ref. No.

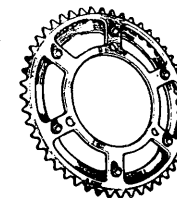
Triple set has 1 Ref. 104 outer and 2 Ref. 106 inner chainrings assembled with Ref. 84 fixing bolts.



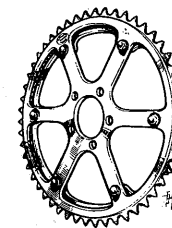
CHAINWHEELS

Type CRITERIUM—range 43 to 68 teeth*

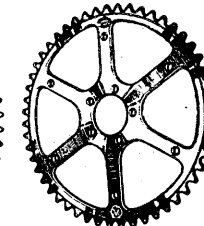
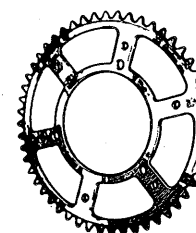
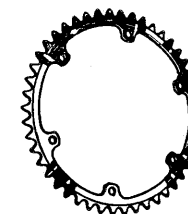
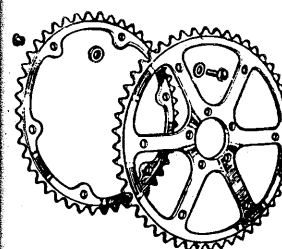
CRITERIUM doubles and triples (3- or 5-pin) offer exactly the same range as the PROFESSIONNEL but without the use of the adaptor thus saving slightly on both weight and price.



Criterion complete
3-arm Double. Ref. 2203.
3-arm Triple. Ref. 3203.



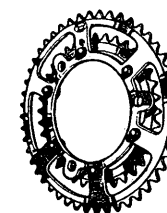
Criterion complete
5-pin Double. Ref. 2205.
5-pin Triple. Ref. 3205.



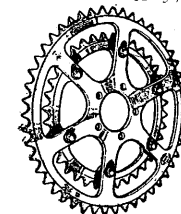
Inner Chainring
To fit CR203 or CR205. Ref. 204.
Outer Chainwheel
3-arm. Ref. CR203.
5-pin. Ref. CR205.

Type RANDONNEUR—range 36 to 68 teeth*

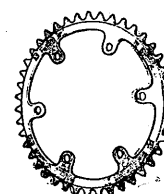
The RANDONNEUR doubles and triples are available with inside ring size from 36 teeth and are made for the hard-riding club cyclist in the same famous T.A. duralumin as other T.A. chainwheels — material respected throughout the world for its lightness and longevity. Available either 3- or 5-pin fixing.



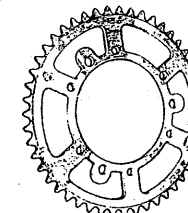
Randonneur complete
3-arm Double. Ref. 2213.
3-arm Triple. Ref. 3213.



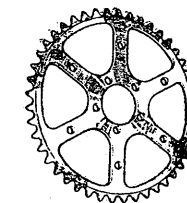
Randonneur complete
5-pin Double. Ref. 2215.
5-pin Triple. Ref. 3215.



Inner Chainring to fit
RA203 or RA205.
Ref. 206.



Outer Chainwheel
3-arm. Ref. RA203.



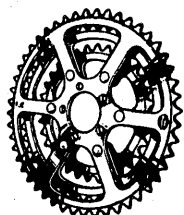
Outer Chainwheel
5-pin. Ref. RA205.



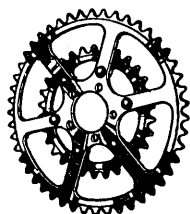
CHAINWHEELS

Type CYCLOTOURISTE—range 26 to 68 teeth*

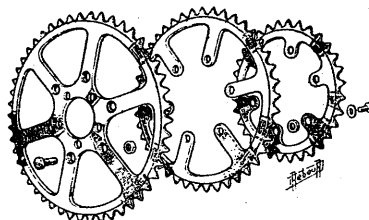
The incomparable double and triple chainwheels for touring, the CYCLOTOURISTE (5-pin only) offers a tooth range that meets every requirement. Recommended as all other doubles and triples are to be used only with $\frac{1}{2} \times 3/32$ " chains. Remember every T.A. chainwheel is surface plate tested for truth before despatch.



Cyclotouriste complete
5-pin Triple. Ref. 3235.



Cyclotouriste complete
5-pin Double. Ref. 2235.



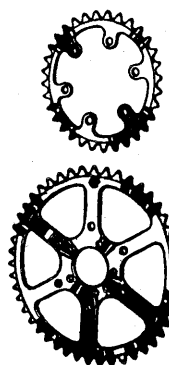
Outer Chainwheel 5-pin
for 3235 (Triple).
Ref. TCY205.
36 teeth minimum.

Intermediate Chainring
for TCY205 (Triple).
Ref. 208.
36 to 50 teeth.

Inner Chainring for
TCY205 (Triple).
Ref. 207.
26 to 35 teeth.

Inner Chainring to
fit to CY205.
Ref. 207.
26 to 35 teeth.

Outer Chainwheel
5-pin for 2235
(Double).
Ref. CY205.
36 teeth minimum.



CHAINWHEEL FIXING AND ASSEMBLY BOLT ETC.



Ref. 25. Crank Fixing Bolts (Set of 5).
(Supplied free with all 5-pin single,
double and triple chainwheels includ-
ing 5-pin outers.



Ref. 62. Assembly Bolts, etc., for
Professionnel Doubles (Set of 6).
(New pattern—use 136 Allen key).



> Assembly Bolts, etc., for Criterium,
Randonneur and Cyclotouriste
Doubles (Set of 6). Ref. 64.



Ref. 84. Assembly Bolts, etc., for
Professionnel Triples (Set of 6).



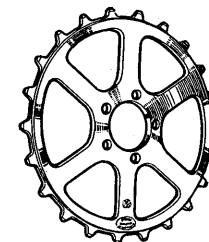
Assembly Bolts, etc., for Criterium
and Randonneur Triples. (Set of 6).
Ref. 85.



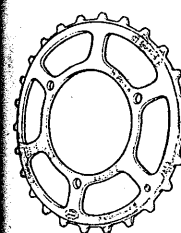
Assembly Bolts, etc., for Cyclotour-
iste Triples. (Set of 6). Ref. 87.

Single TRACK Chainwheels —
range 20 to 34 teeth for 1" bloc
chain.

A popular range of rings in
either 3- or 5-pin attachment for
track sprinting.



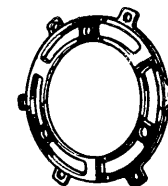
Chainwheel 5-pin using Bloc
track chain. 1" x 3/16".
Ref. P255.
20 to 34 teeth.



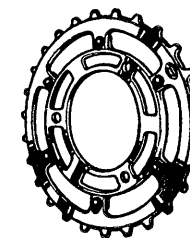
Chainwheel 3-arm using Bloc
track chain. 1" x 3/16".
Ref. P233.
20 to 34 teeth.

Single TRACK Chainrings on Ad-
aptor—range 20 to 34 teeth for 1"
bloc chain, or 43 to 68 teeth for $\frac{1}{2}$ "
 $\times \frac{1}{8}$ " or 3/32" Chain*

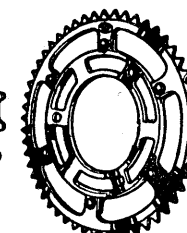
Single TRACK ADAPTOR SETS
in addition to being used for track
sprinting (bloc chain) and pur-
suing ($\frac{1}{2}$ " chain), are ideal for
Road use when a quickly inter-
changeable single ring is required.



3-arm Single Track
adaptor. Ref. P173.



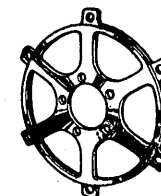
Complete Track
Adaptor Set 3-arm
using 1"x3/16" chain.
Ref. P1733.
20 to 34 teeth.



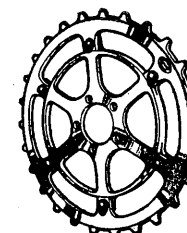
Complete Track
Adaptor Set 3-arm
using $\frac{1}{2}$ " x $\frac{1}{8}$ " or 3/32"
chain. Ref. P1753.
43 to 68 teeth.



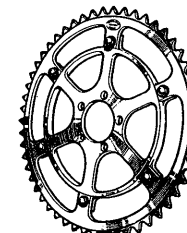
Track adaptor
assembly bolts, etc.
(Set of 6). Ref. P75.



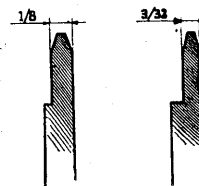
5-pin Single Track
adaptor. Ref. P175.



Complete Track
Adaptor Set 5-pin
using 1"x3/16" chain.
Ref. 1735.
20 to 34 teeth.

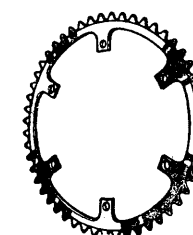


Complete Track
Adaptor Set 5-pin
using $\frac{1}{2}$ " x $\frac{1}{8}$ " or 3/32"
chain. Ref. P1755.
43 to 68 teeth.

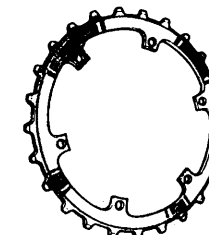


NOTE.—Specify type of chain to be
used— $\frac{1}{2}$ " x $\frac{1}{8}$ " or 3/32"—when
ordering chainwheels. References:
201: 203: 205: P209: P1753: P1755.

*Available above 68 teeth to special
order, maximum 140 teeth.



Chainring for single
adaptors P173 & P175.
Ref. P209.
43 to 68 teeth,

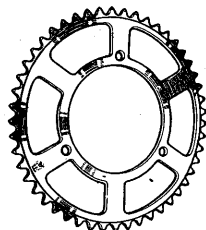


Chainring for single
adaptors P173 & P175.
Ref. P210.
20 to 34 teeth.

Single ROAD Chainwheels—range 5-pin 26 to 68 teeth* 3-pin 36 to 68 teeth*

A complete range of single chainwheels available for either $\frac{1}{2}'' \times \frac{1}{8}''$ or $\frac{1}{2}'' \times 3/32''$ chains (be sure to specify which).

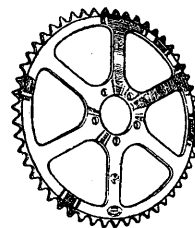
* Available above 68 teeth to special order—we have delivered as large as 96 teeth.



Chainwheel 3-arm
Ref. 203.
36 to 68 teeth.



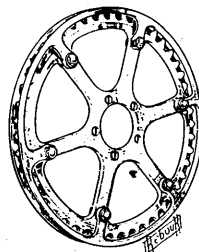
Chainwheel 5-pin
Ref. 201.
26 to 35 teeth.



Chainwheel 5-pin
Ref. 205.
36 to 68 teeth.

Type CYCLO CROSS Chainwheel

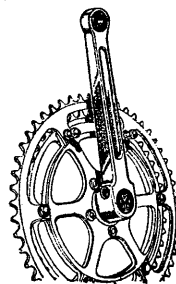
The first chainwheel to be manufactured specially for CROSS racing and still the most popular. A standard $\frac{1}{2}'' \times 3/32''$ chainwheel, either 3- or 5-pin, that has two light dural chainguards rivetted to either side preventing the chain from derailing when riding over uneven ground. The flush rivets are so finished to give maximum clearance. Available in all popular racing tooth sizes—3-pin Ref. 1203 5-pin Ref. 1205.



Chain Trap.
The Pair. Ref. 24.

CHAIN TRAP, Ref. 24.

Another time saver for the racing man. Two specially extended double or triple Road adaptor fixing bolts are fitted as shown, one on each side of the crank. These catch a derailed chain and prevent it jamming behind the crank and at the same time allow it to be replaced by hand easily whilst still riding.

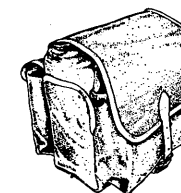


Special Cyclo Cross
Chainwheel.
(For $\frac{1}{2}'' \times 3/32''$ chain).
Ref. 3-arm 1203.
Ref. 5-pin 1205.

Remember T.A. employ no professional riders—their products are used on merit alone. They have been used by successful Continental winners and British riders in 10 post-war Tour de France events—World Championships on Road, Track and Pursuit—World's Hour Record—World's Speed Record and by countless British national champions. A record unequalled by any other product.



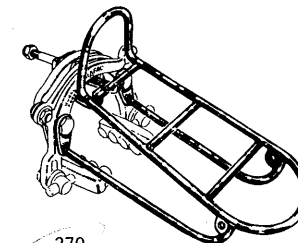
ACCESSORIES



272

BAGS

272. The Randonneur handlebar bag is 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 $6'' \times 9'' \times 10''$ main compartment the bag also incorporates 2 side, 2 back and 1 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. Weight 18 ozs. (510 gms.).

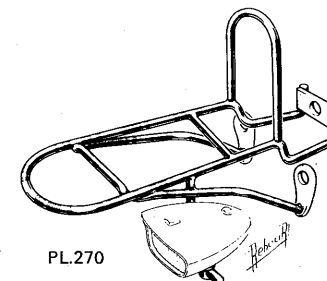


270

BAG SUPPORTS

270. Sturdy front bag, rain cape or tub 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 tube. Weight $4\frac{1}{2}$ ozs. (120 gms.).

PL.270. As above but with headlamp fixing bracket.



PL.270

BOTTLES

Professionnel with "Miracle" Cap and Printed Badge

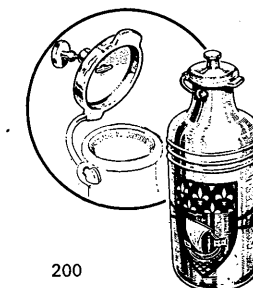
The T.A. bottle that secured the coveted contract for the world's most important cycle race—the TOUR de FRANCE and chosen because of these features:

- ★ Made in special white polythene it will stand enormous pressure.
- ★ It is light—it will take hot or cold liquids and is guaranteed against any odour.
- ★ Fitted with a double seal cap ensuring a watertight fit.
- ★ Cap is attached by a flexible moulded loop and has a thumb push lip for easy opening.

Available with 6 different badge designs as follows:

- 200T Tour de France badge.
- 200P T.A. special badge.
- 200A Jacques Anquetil badge.
- 200B Bertin badge in 1 colour.
- 200C Bertin badge in 3 colours.
- 200D BIC badge.

Also available without badge or with your own badge to special order.



200

The 21 "MIRACLE" Hinged Cap as supplied with the 200 range of bottles is patented. The cap centre hole is sealed by a plug, firmly located internally. This plug can be released by a sharp pull with the teeth and relocated quickly by hand pressure. When the plug is out the liquid contents of the bottle can easily be squeezed through the centre hole without removing the complete cap, so saving valuable time in racing events.



21



ACCESSORIES

Hip Flasks

Handy size strong white plastic hip flasks with non-leak cork. 2 sizes—Ref. 300—30 cl.—Weight 1 oz. (28 gms.).
Ref. 150—15 cl.—Weight $\frac{3}{4}$ oz. (21 gms.).



Bottle Covers

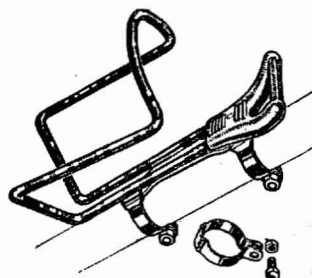
145 "ISOL" The latest innovation from T.A. designed to fit any bottle, the "ISOL" cover is made from finely woven cotton, double thickness, into which is fitted a layer of insulating fibre. The top and bottom are made secure after fitting with tapes which are drawn together and tied. Attractive orange colour only with black embossed T.A. motif. Weight $1\frac{1}{4}$ ozs. (35 gms.).



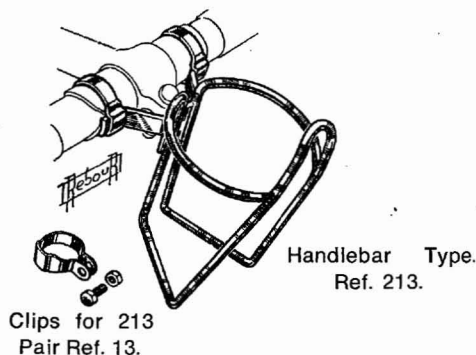
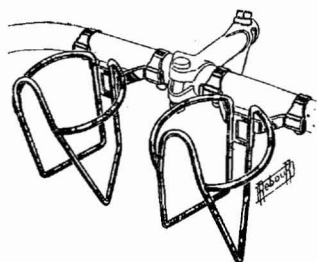
Bottle Cages

T.A. are the finest ever produced. Look for these exclusive features:

- ★ Constructed in one piece heavy gauge steel wire.
- ★ No springs or expanders used.
- ★ Solid brazed-on back plate.
- ★ Fits any full-size bottle.
- ★ Two accurate-fitting non-slip fixing clips.
- ★ Superb heavy chrome plate finish.
- ★ Downtube model has exclusive plastic grip.



Down Tube Type. Clips for 215
Ref. 215. Pair Ref. 15.



Clips for 213
Pair Ref. 13.

Two handlebar cages can be fitted alongside to equal a double handlebar cage as illustrated.



ACCESSORIES

Bottle and Cage Sets

385 "CRITERIUM" is the perfect economy set, consisting of:

198 Bottle made of strong white plastic with standard hinged cap in contrasting red colour. This bottle is available as a separate item and will fit any standard down tube cage. Weight 2 ozs. (56 gms.) and **216 Cage** made of fully chromed steel wire very similar in design to the T.A. 215 cage with a loop designed to hold the bottle securely. Supplied complete with single chrome down tube frame clip. Weight 4 ozs. (112 gms.).

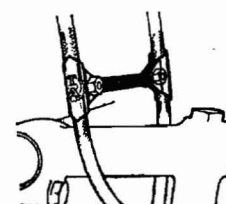


385

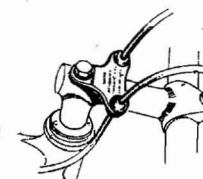
Brake Cable Guides

32. Tourist Brake Cable Guide and Identity Plaque

Made in alloy this guide can be fitted to either expander bolt or stem clip bolt. Guides and rubber ring inserts are both slotted so that the brake cable can be fitted without cutting. Free movement is allowed to the cables without friction. This guide is ideal for engraving as an identity plaque.



34



32

34. Racing Brake Cable Guide

Two neat clips joined by a spring, giving full movement.



RECOMMENDED TOOLS

V23 Forked screwdriver for threaded chainwheel assembly bolt bush.

V24 Spanner for six-sided chainwheel assembly bolts.

136 Allen Key for locking crank securing bolts and new type Professionnel double assembly bolts.

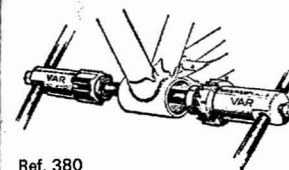
Tools for threading and dressing the bracket shell. Indispensable for correct fitting of BB cups.

380 For French threads.

W380 For English threads.

139 Dual purpose spanner for Professionnel axle end bolts and dust cap.

138 Extractor tool for Professionnel crank set.



Ref. 380



Ref. 139



Ref. 136



Ref. 138



Ref. V23



Ref. V24

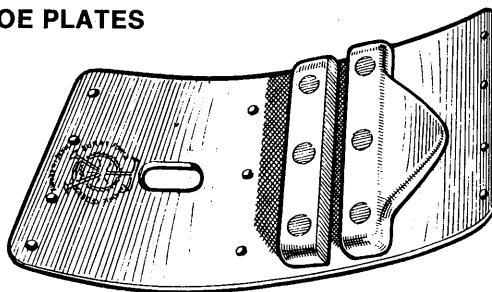
*The New Cycling 1972 10
another tools*

Shoe Plates "ANQUETIL"

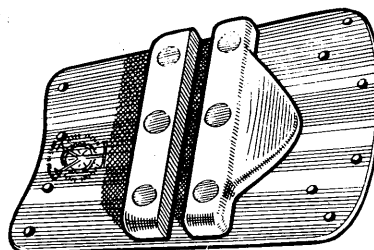
(Weight 2 ozs. pr.) Manufactured in forged duralumin consisting of 3 pieces riveted with copper and a special extra long steel plate to protect the shoe sole. **ROAD model Ref. 38** has an extra long base plate, joining the heel and reinforcing the sole without losing the necessary flexibility. The famous French rider, J. ANQUETIL, claims that this design assists in avoiding cramp during long races into the wind or in the rain.

TRACK model, Ref. 39 is shorter with deep slots and extra strong base plate.

TA SHOE PLATES



38 Road



39 Track

36 "CRITERIUM"

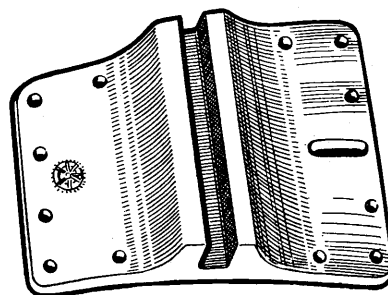
Here are the reasons why T.A. "Criterium" shoe plates are different and better:

- ★ Extra light—only $\frac{3}{4}$ oz. in finest duralumin.
- ★ Extra strong—perfectly machined in one piece.
- ★ Most practical—carefully tapered into a deep slot.
- ★ Easiest to fit—location slot enables the plate to be held with a tack while the exact position is set.

41 CYCLO-CROSS

Superb one piece alloy shoeplates with deep centre slot. The shoeplate base is threaded to take two detachable $\frac{5}{8}$ " long spikes. Supplied complete with fixing tacks. Weight 3 ozs. pair (84 gms.).

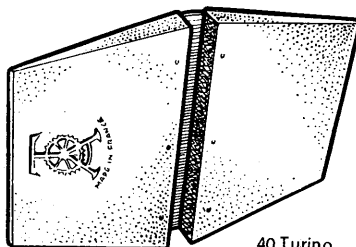
NOTE: Ref. 27 spikes can be obtained separately.



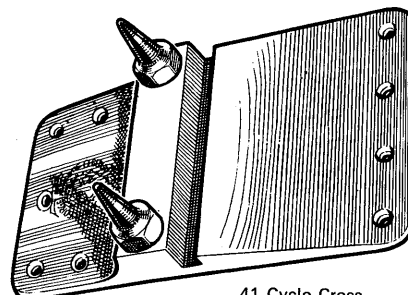
36 Criterium

40 "TURINO"

Made of two piece leather riveted to centre steel strip, which allows the plates to be moulded to the contours of any shoe sole. Weight $1\frac{1}{2}$ ozs. pr. (42 gms.).



40 Turino



41 Cyclo Cross

SPECIALITIES T.A.

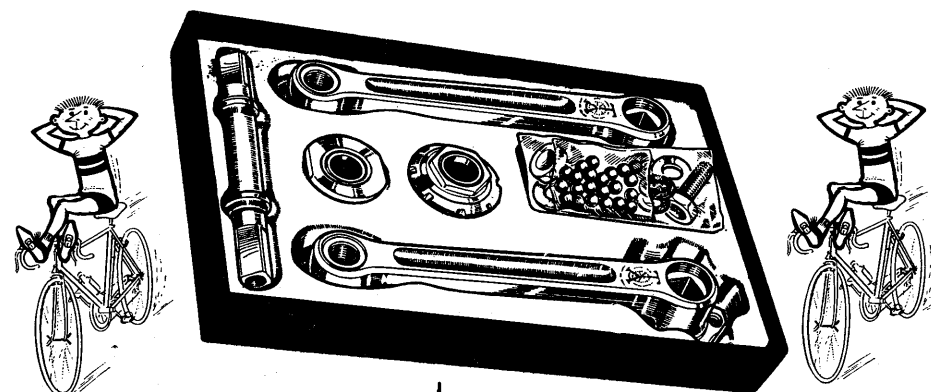


The World's Finest Cycle Accessories

FAMOUS FOR

Superior Design. Quality Materials.

Irreproachable Finish.



145, 149, 150, 155

N.C. 145, 150

New type cranks.



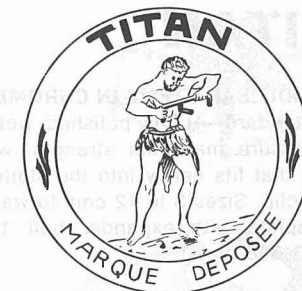


RON KITCHING demonstrates the smallest **TA** chainwheel made of 26 teeth alongside a 100 teeth chainwheel made to special order by **TA** for a World's record attempt on rollers.

MC 72, 10 seat pin

TITAN

In the world of the ancient Greeks TITAN means strength, power and stamina, and in the world of the modern cyclist these adjectives well describe the famous range of TITAN handlebars and Stems. Here are products that are truly different in design and finish. First introduced over 30 years ago and used by SYLVERE MAES to win the Tour de France, TITAN products quickly achieved the reputation of being the only light handlebar with positively no whip. They became the automatic choice of several world champions including Marcel KINT and Rik VAN STEENBERGEN. TITAN remains the handlebar set often copied but never equalled.

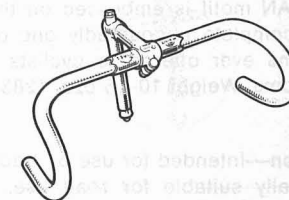


HANDLEBARS IN DURALUMIN

Maes-Kint model. The original and still the best, the only "true" Maes shape, all others being imitations. Made from the finest duralumin tube reinforced to 27 mm diameter in the centres and engraved with the names S. Maes and M. Kint. Treated by a special anodic process which gives the bars an exclusive bright "pink" finish and prevents any discolouration of the hands. Weight 12½ ozs. (354 gms.).

Sercu—the cyclo-tourist's favourite having three positions, ideal for use with "guidonette" touring centre pull brake levers.

NOTE: TITAN duralumin bars are available in the following widths:
35—36—38—40—42 cms.



HANDLEBARS IN CHROME STEEL

Track model, highly polished 1" (25 mm) diameter, designed to withstand all the rigours of modern track racing. Weight 21½ ozs. (609 gms.).

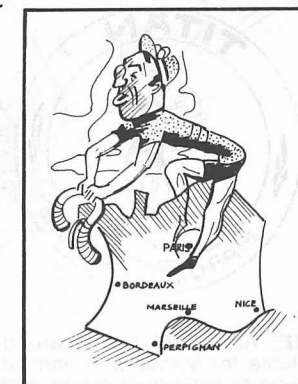


HANDLEBAR AND STEM SETS

Maes-Kint reinforced dural' bars are available complete with either Standard or Super stem in weights varying from 22½—25 ozs. (638—722 gms.) complete.

SEAT PILLAR

A superb straight pin made in finest duralumin with closed top end. Available in six diameters—25.8, 26.2, 26.4, 26.8, 27.00, 27.2. Length 7". Weight 2½ ozs. (70 gms.).



TITAN

HANDLEBAR STEMS IN CHROME STEEL

Standard—Highly polished, well designed to ensure maximum strength, with a clip bolt that fits neatly into the slotted handlebar clip. Sizes 3 to 12 cms forward. Weight complete with expander bolt 10–13 ozs. (283–368 gms.).

Super—A masterpiece in design with a new style invisible expander bolt which seats firmly on a lipped chrome bush giving the stem a very “clean” look. The attractive TITAN motif is embossed on the clip front to complete undoubtedly one of the finest stems ever offered to cyclists. Sizes 5 to 15 cms. Weight 10–15 ozs. (283–426 gms.).

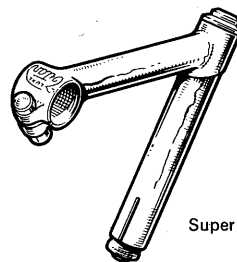
Avion—Intended for use by track riders but equally suitable for road use, this model has a drop front with underslung clip. Sizes 5–12 cms. Weight 10–13 ozs. (283–368 gms.).

Curved—Another stem especially for the track rider with the forward extension curving gently downwards. Sizes 6 to 12 cms. Weight 10–12 ozs. (283–340 gms.).

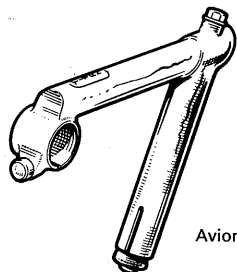
Track—Chrome steel with fully adjustable slider with a range of 10 to 15 cms. The round adjusting clip is held firmly by a lipped bolt. Weight 15 ozs. (426 gms.).



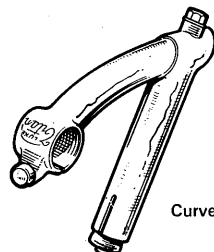
NOTE: All TITAN Stems are complete with expander bolt and threaded cone and are available for standard 25 mm or the special 27 mm diameter reinforced dural TITAN bars. Be sure to state your requirements when ordering.



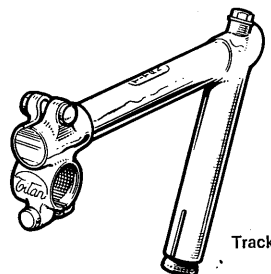
Super



Avion



Curved

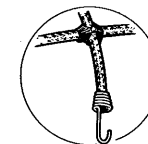
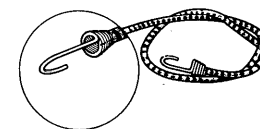


Track

TREM

SANDOWS

Superior quality elastics made from the finest rubber and covered in multi-coloured fine woven cotton. Sealed at the ends with a plastic cap which fits neatly into the plastic covered hook, this patented method of fixing prevents the elastic rubber fraying and guarantees longer life. Stocked in eight lengths from 24” to 100” in singles and two lengths each in 4, 6, 8 and 10 branch types TREM elastics are made up to a standard and not down to a price. A complete range is also available for camping, yachting and other sports.



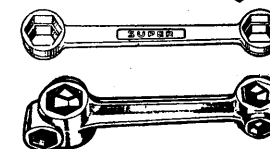
T.W.F.

Quality products always in demand by discerning cyclists. Finest materials TWF products are strong and reliable.

SPANNERS

“675 Super”—4 hole light and strong sure to appeal to the racing and clubman who remain faithful to track nuts. Made of aluminium bronze. Guaranteed quality with holes accurately calibrated. 5” long. Weight 2½ ozs. (70 gms.).

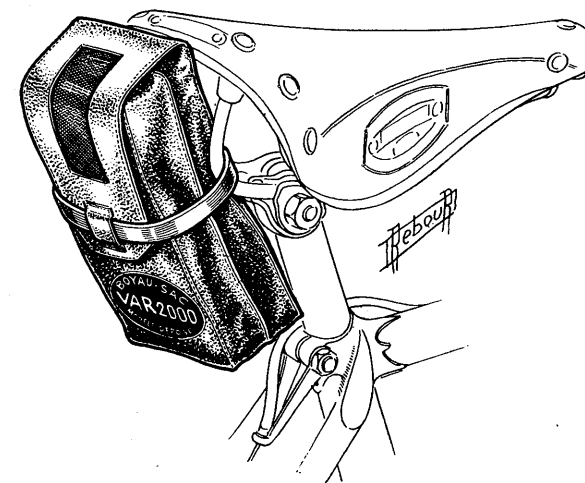
“676 Superb”—8 hole suitable for track nuts, expander bolts cotter nuts, etc. 4½” long. Weight 2 ozs. (57gms.).



VAR

TUBULAR CARRIER

“2000”—Full protection for spare tubular tyre, cape or spare tube, fitted with reflective patch for added security at night. Made of double welded reinforced white plastic and fully waterproof. Fastens to saddle with toeclip strap or carried in bottle cage. Weight 2½ ozs. (70 gms.).



Italian Ideas!



ADORNI — BALDINI — BALMANION — BITOSS — DANCELLI — DEFILIPPIS — GIMONDI — JIMENEZ — LONGO — MERCKX — MOTTA — MEALLI — NENCINI — PETTERSON — SERCU — SIMPSON — STABLYNSKY — VAN LOY — VAN STEENBERGEN — ZILIOI — Here are just a few of the Champions who have triumphed with t.t.t. handlebars and stems.

Manufactured by specialists using the most modern aeronautical designs and materials, race proved by the champions, t.t.t. products are for the connoisseur—for the rider who puts the quality of the product before the price. t.t.t. make only handlebars and stems and only in light, high resistance, non-corrosive, durable alloy. Three qualities are available—TOURIST—GRAN PRIX SPECIAL and new for the 1970's the RECORD range—lightest in the world.

The new RECORD range is the answer to the modern demand for lighter equipment without sacrificing strength.

t.t.t. HANDLEBARS

Made with 24 mm outside diameter tube and with a 26 mm diameter centre ferrule for extra strength and rigidity in 4 popular road models plus 2 models for track racing. (See Technical Data Section for full dimensions).

Road Models (available in 2 qualities—Gran Prix and Record).

Franco Belga. The popular square design with a medium forward reach and drop. Weights—**Gran Prix** 12 ozs. (340 gms.), **Record** 8 ozs. (227 gms.).

Bobet. The modern bend with a slightly more forward reach, sloping grip and less drop. Weights—**Gran Prix** 13 ozs. (368 gms.), **Record** 9 ozs. (255 gms.).

Coppi. Similar to the Bobet but with a shorter reach and deeper drop. Weights—**Gran Prix** 12½ ozs. (361 gms.), **Record** 8½ ozs. (249 gms.).

Anquetil. The bend for the distance rider, square in shape with grip turned slightly out to avoid wrist ache in long events. Weights—**Gran Prix** 12½ ozs. (354 gms.), **Record** 8½ ozs. (241 gms.).

Track Models (Gran Prix quality only)

Pista. The old favourite track shape with medium reach top sloping outwards to a deep drop. Weight 13½ ozs. (383 gms.).

De Filippis. A new concept in track bar design, although square, with a very short forward reach and a slightly shallower drop, has ample grip. Weight 13 ozs. (368 gms.).

t.t.t.



MERCKX



ZILIOI



GIMONDI



DANCELLI



SIMPSON

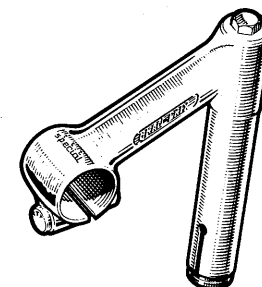
t.t.t.

t.t.t. HANDLEBAR STEMS in duralumin

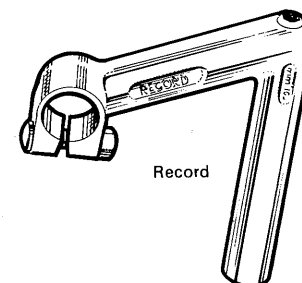
Tourist

A top quality stem at an economical price made especially for the tourist. Highly polished and incorporating all the usual t.t.t. quality features including easily accessible clip bolt. Normal expander fitted. Two forward lengths only—8.5 and 11 cms. Weight 8 and 12 ozs. (227 and 340 gms.).

B. van



Gran Prix



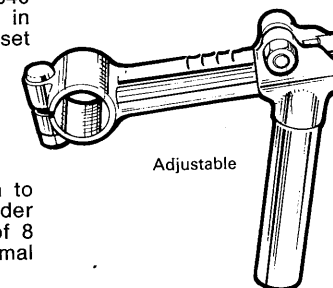
Record

Gran Prix

The most popular model, precision machined from a solid alloy forging with the forward extension shaped in an exclusive design of half round tapering to a point along the top edge. The model name GRAN PRIX is embossed into the extension sides and the highly polished finish is completed with an attractive multi-coloured motif. Complete with embossed clamp bolt and normal expander, the head of which fits neatly onto a bush seated in the stem column. Available in all forward lengths of 7 to 13 cms. with weights from 9 to 12½ ozs. (255 to 354 gms.).

Record

The same impeccable design and finish as the GRAN PRIX stem but forged in the new sensational ultra-light RECORD metal. Model name is embossed on the extension side and forward length in cms. on the stem. Fitted with invisible headed expander bolt tightened by Allen Key and available in 5 forward lengths—8.5 cms. 8 ozs. (230 gms.), 9.5 cms. 8½ ozs. (249 gms.), 10.5 cms. 9½ ozs. (269 gms.), 11.5 cms. 10½ ozs. (304 gms.), 12.5 cms. 12 ozs. (340 gms.). It's high price is justified by it's high standard in design, material and finish—truly the RECORD bar set will be the choice of the rider who will have the best.



Adjustable

Adjustable

Possibly the only really satisfactory adjustable stem to be made in forged duralumin—the dovetailing of the slider and extension prevents twisting and gives a choice of 8 different positive forward positions. Complete with normal expander and clip bolt. Weight 13 ozs. (368 gms.).

t.t.t. HANDLEBAR AND STEM SETS

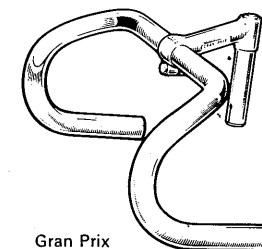
The complete range of t.t.t. handlebars and stems are available as complete units and an approximate comparison of the weights is listed below:

TOURIST handlebars on **TOURIST** stems
23–27 ozs. (650–764 gms.).

GRAN PRIX handlebars on **GRAN PRIX** stems
21–24½ ozs. (594–694 gms.).

RECORD handlebars on **RECORD** stems
16–20 ozs. (454–566 gms.).

(Weights shown are using Franco Belga model handlebars.)



Gran Prix

TRIPLEX

Rapidly becoming the most popular name in cycle gearing, TRIPLEX accessories are designed and manufactured by craftsmen who are active cyclists, and although using only first quality materials are well renowned already for reliability at economical prices. Each article is given exhaustive testing before it is produced ensuring the user complete satisfaction. TRIPLEX accessories are offered at prices without equal and are backed by a full after-sales spares service.

JUVENILE BRAKES

Caliper type cable operated with a strong centre tension spring ensuring an equal braking action. The stirrup arms incorporate cable securing eye-bolts and an adjuster making adjustment the easiest of operations. Fully chromed steel stirrups available in one length only but suitable for most sizes of junior cycle are fitted with adjustable brake shoes and black non-slip brake blocks. Supplied complete with transmissions and a very attractive racing type lever with curved blade. Weight 21 ozs. (651 gms.) pair.

STANDARD BRAKES

An adult version of the junior brake. Choice of two levers, racing pattern with curved blade to suit drop bars or with a straight blade to fit flat bars. Weight 23 ozs. (651 gms.) pair.

CHAINWHEELS

Fully chromed double 3-pin rings. Inner and outer rings fully interchangeable. Available in sizes as follows: Inner—46, 47, 48; Outer—48, 50, 52. Weight 16½ ozs. (467 gms.).

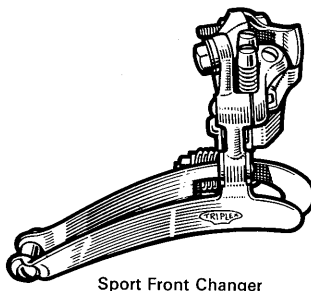
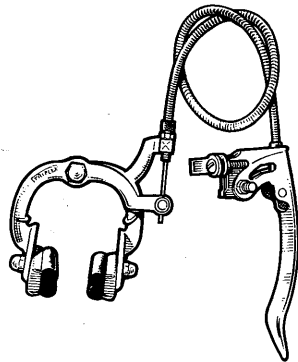
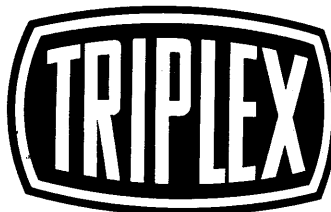
GEARS—FRONT CHANGER

"Sport"—Mechanism only, designed to work over two or three chainrings. Cable operated, the cage is mounted on two short arms fitted with a strong tension spring to ensure a positive change every time. Easily accessible spring loaded adjusters are incorporated into the main body which is fastened to the frame with a single hinged clip. Fully chromed. Weight 5½ ozs. (156 gms.).

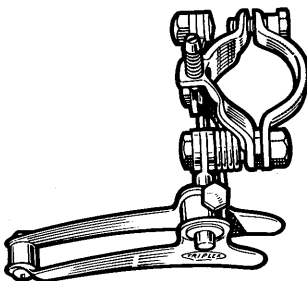
"Extra"—very similar in design to the "Sport" model. Cable operated. Weight 5½ ozs. (156 gms.).

GEARS—REAR

"Sport"—The gear that incorporates all the features of other makes costing twice as much. The deformable parallelogram action is designed to work over 3, 4, 5 or 6 speeds ensures a rapid and positive change every time. The roller cage is spring loaded and has improved chain wrap to accommodate freewheel sizes 13 to 28 and chainring sizes 44 to 54. The side movement arms incorporate spring loaded adjustment screws and cable fixing clamp. The lower main body is fitted with an allen key type bolt and is housed into a powerful tension spring which keeps the roller cage tensioned. Nylon rollers are used revolving on non-rust bushes which are fitted with oil covers. Complete with transmission cable, right hand down tube lever, tunnel and chainstay stop. Weight 16½ ozs. (461 gms.).



Sport Front Changer

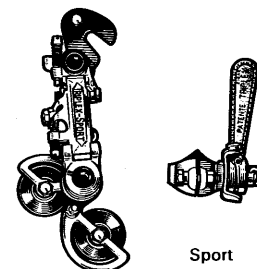


Extra Front Changer

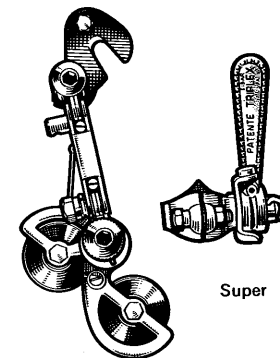
GEARS—REAR

"Super"—Produced to meet the demands for a parallelogram action gear at a popular price. New in design but still incorporating the side throw movement. The side movement arms incorporate a large tension spring, adjustment screws and the cable securing bolt. Hinged to top and lower body end with strong rivets the arms are shaped to ensure maximum strength. The lower body end incorporates a strong tension spring which allows the gear to be used with the same freewheel and chainring sizes as the "Sport" model. Nylon rollers are also used on this model. Complete with transmission cable, right hand down tube lever, tunnel and chainstay stop. Weight 14 ozs. (396 gms.).

"Extra"—The most popular gear in this price range. Simple in design yet capable of withstanding the hardest wear. Made from steel plates the parallelogram body pivots between two dead stops on the hanger plate. A powerful spring controls traverse movement over 3 or 6 speed freewheels limited by sprung screws adjusted against the stops situated on top and lower body ends. Housed in a well spaced roller cage for ⅜ or 3/32 chain and allowing for a difference of 32 teeth on Freewheel and Chainring. Complete with transmission cable, RH, DT Lever, Tunnel and Chainstay Stop. Weight 14 ozs. (396 gms.).



Sport



Super

GEARS—FRONT AND REAR ENSEMBLES

TRIPLEX Front Changers and Rear Gears are also available in the following combinations complete with transmission cables, twin down tube lever, tunnel and stop and chainstay stop.

- "Sport" Front changer with "Sport" rear gear.
Weight 24½ ozs. (687 gms.).
- "Extra" Front changer with "Sport" rear gear.
Weight 24½ ozs. (687 gms.).
- "Sport" Front changer with "Super" rear gear.
Weight 22 ozs. (622 gms.).
- "Extra" Front changer with "Super" rear gear.
Weight 22 ozs. (622 gms.).
- "Extra" Front changer with "Extra" rear gear.
Weight 22 ozs. (622 gms.).

and **STOP PRESS**—the latest for the 1970's the TRIPLEX "SPORT" gear ensemble is now available in all duralumin giving the lightest and best derailing in the world.

Weights Front changer mechanisms 4 ozs. (113 gms.).

Rear gear mechanism 6½ ozs. (184 gms.).

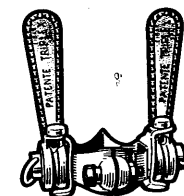
Double control, cables, tunnels and stops 7½ ozs. (206 gms.).

Total ensemble 18 ozs. (510 gms.).

GEAR CONTROLS

6: Single lever down tube right hand lever. Fully chromed clip with an alloy lever. Fitted with spring friction washers the lever banjo is easily adjusted to the correct tension with a winged thumb screw. Complete with fixing nut and bolt. Weight 1½ ozs. (50 gms.).

7: As above but for Twin Cables. Weight 3 ozs. (85 gms.).



No. 7

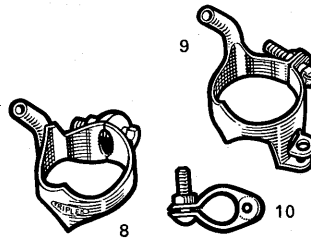
GEAR TUNNELS AND STOPS

8: Single down tube tunnel for rear gear cable. Chrome plated steel complete with fixing bolt. Weight 1 oz. (29 gms.).

9: Double down tube tunnel and stop for gear ensemble. Chrome plated steel complete with fixing bolt. Weight 1½ ozs. (36 gms.).

10: Chainstay clip for rear gear cable. Chrome plated with fixing bolt. Weight ¼ oz. (8 gms.).

TRIPLEX—The name you can rely on.



UNICA-NITOR

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** 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 chamfered 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 when compared with other saddles.
- ★ Choice of 3 widths for road, track or touring.
- ★ Non-rust stainless steel frame—fully adjustable.
- ★ Seven models with four different prices to choose from.

UNICA-NITOR is without doubt the saddle that the champions rely on and practically every leading professional now insists that his machine is UNICA equipped.

SADDLE TOPS (less clip)

55 Road. Nylon plastic with perforated top. Choice of 2 colours—black or brown. Size 6" × 10½". Weight 11 ozs. (311 gms.).

55 Track. As above. Slightly narrower. Size 5½" × 10". Weight 11 ozs. (311 gms.).

65 Campione Del Mondo—Road. Nylon plastic fine leather covered without perforations. A special process is used to avoid the leather leaving the seat top. Black only. Dimensions as 55 Road. Weight 11½ ozs. (333 gms.).

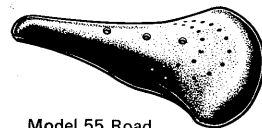
65 Campione Del Mondo—Track. As above, slightly narrower. Weight 11½ ozs. (333 gms.).

65 Campione Del Mondo—Turismo. The tourist's saddle. Slightly wider than the road model. Size 6½" × 10". Weight 12 ozs. (340 gms.).

70 Quilted. Super leather covered saddle with foam insert, cross stitched. The saddle for maximum comfort. Size 6" × 10". Weight 12½ ozs. (354 gms.).

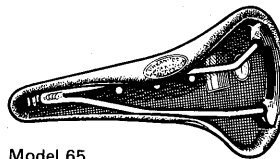
75 Tour de France. The saddle now used by the majority of the top "Pro" teams. Chamois covered on nylon plastic. Top with wafer thin sponge insert cross stitched for absolute reliability—black only. The ultimate in saddles. Size 6" × 11". Weight 13 ozs. (368 gms.).

NOTE: UNICA saddle tops have standard 36 mm 2-wire frames that will fit to either **NITOR 1963—CAMPAGNOLO 1044—ZEUS CRITERIUM** pillars or will accommodate the **IDEALE Speciale Competition** or any standard 2-wire clip.



Model 55 Road

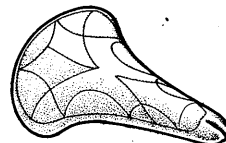
Spring stay welded 1/2" 40 Jap (52)



Model 65
Campione Del Mondo-Road



Model 70 Quilted

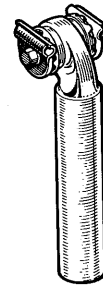


Model 75 Tour de France

TRIPLEX UNICA-NITOR

SEAT PILLARS

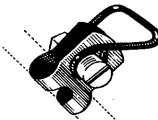
Nitor 1963. Now recognised as the pillar that is perfect in every way. Formed in one piece forged alloy on which seats the serrated plastic grips allowing micro-adjustment. Easily accessible horizontal locking bolts grip the two non-rust saddle frame clips. Adequate forward and backward movement. Four diameters available—26.2, 26.8 (No. 3), 27.0" (No. 4) and 27.2 (No. 5). Weight 10 ozs. (280 gms.). **also available**



UNICA BAG LOOPS, to fit any 2-wire saddle—neat, unseen and quickly detachable. Weight only ¾ oz. pair (21 gms.).

IMPORTANT. When ordering remember to state the following:

(a) Model reference. (b) Size, i.e. Road or Track, (c) Diameter when ordering seat pin.



Here are just a few of the Champions who use UNICA



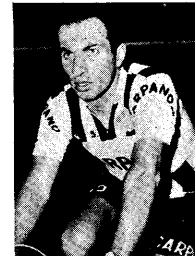
ADORNI



BALMAMION



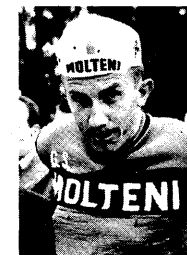
BITOSSI



DEFILIPPIS



MERCKX



MOTTA



NENCINI



SERCU



A good professional in good form with good equipment will usually win one of the Continental classics sooner or later, but to win for example **PARIS—ROUBAIX** or the **World's CYCLO-CROSS Championship** he needs more than that. Good luck plays an important role in deciding the results of classics held over atrocious road surfaces, good luck in avoiding a fall, but above all good luck in having chosen racing tyres that have proved themselves time and time again to be superior in bad conditions. There is no good luck about VITTORIA tubulars—the results in the classics over recent years prove that they are unquestionably good!

Vittoria ADORNI in the Giro d'Italia—**Felice GIMONDI** in the Tour de France and Paris—Roubaix—**Eric de VLAEMINCK** in the Tour of Belgium and Cyclo-Cross Worlds—**Michele DANCELLI** in the Giro dell'Emilia—**Rik VAN LOOY** in the Road Championships—**Walter GODEFROOD** in the Paris—Roubaix—**Renato LONGO** in the Cyclo-Cross Worlds (5 times!) and to prove the versatility of the VITTORIA range **Peter POST**, European Omnium Champion and **Patrick SERCU** World's Sprint Champion are VITTORIA users and champions at the same time on both the cement and wood tracks of Europe.
CLIVE STUART — **VIKING** — **TRUMANN'S STEEL** — **MACKESON** — **CARLTON** — **SUN** — **CROAD** and **BOB JACKSON** are just a few of the British "pro" teams who have also successfully used VITTORIA tubulars.

Britain's amateurs too have won more records—more championships—more road and track races in the post war years on VITTORIA than on any other make of tyre. So if you want racing success or even just training reliability you can't afford not to buy VITTORIA. Remember the slogan—VITTORIA means VICTORY and remember too that there is the **RON KITCHING** complete specialist service behind their distribution—so necessary with specialist fittings.



TUBULARS

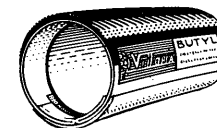
18 Models that will be supreme in the 70's

Type TRAINING — Semi-vulcanised with rubber base tape.

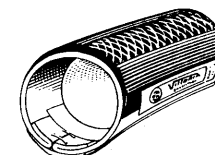
201B BUTYL. The first training tubular to be fitted with a butyl tube. Mixed black tread. Weight **360/380 gms. (13 ozs.)**.

200 VULCAN. Most popular and unbeatable for value, also with butyl tube. Mixed black tread. Weight **340/360 gms. (12 ozs.)**.

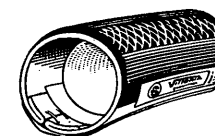
201 GRANTURISMO. The favourite training tyre at a medium price with butyl tube, mixed black tread. Weight **340/360 gms. (12 ozs.)**.



201 B



200



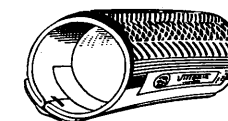
201

Type RACING for ROAD—Semi-vulcanised with rubber base tape.

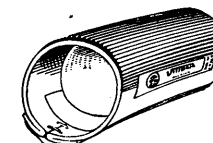
302 SUPER SPORT. A superb all purpose tyre, butyl tube, mixed black tread, white walls. Weight **290/300 gms. (10½ ozs.)**.

401R COMPETIZIONE. A medium distance time trial tyre with a fast ribbed red tread, white walls. Weight **280/300 gms. (10 ozs.)**.

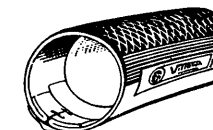
402 COMPETIZIONE. A sturdy all purpose tyre, medium weight, ideal for road races or longer time trials. Black mixed two-ply tread over brown latex. Weight **280/300 gms. (10 ozs.)**.



302



401R



402



TUBULARS—continued

Type RACING for ROAD—COTTON—Hand made with rubber base tape.

600 TOUR DE FRANCE. Specially made for stage races, completely hand finished, mako cotton shell, black mixed tread, white walls. Weight **280/300 gms. (10 ozs.)**.

601M GIRO D'ITALIA. Similar to 600 but with a lighter ribbed tread, ideal for longer T.T.s. Weight **260/280 gms. (9 ozs.)**.

602 CRITERIUM. As it's name implies suitable for short distance road events with a safe mixed black tread for cornering. Completely hand finished with mako cotton shell. Weight **230/250 gms. (8½ ozs.)**.

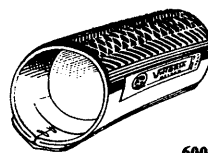
602M CRITERIUM. Similar in all respects to 602 but with a fine ribbed tread for medium distance T.T.s. Weight **230/250 gms. (8½ ozs.)**.

602C CRITERIUM. A completely new design for short distance criteriums with an extra light file centre tread with built-up ribbed edges to give safe cornering. Weight **200/220 gms. (7½ ozs.)**.

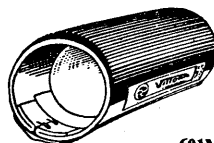
Type RACING for ROAD—SILK—Hand made with rubber base tape.

604 RECORD. As it's name implies, the choice of the record breakers. Completely hand finished with pure silk body, fine ribbed black tread. Weight **180/200 gms. (6½ ozs.)**.

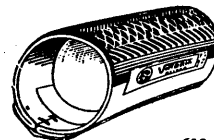
607 IMPERFORABILE. The choice of the BAR winners. Completely hand finished with special fine ribbed black two-ply tread over brown latex and puncture proof protecting strip. Pure silk body for liveliness. Weight **240/250 gms. (8½ ozs.)**.



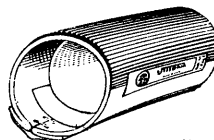
600



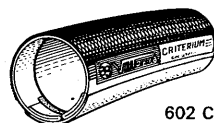
601M



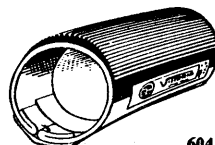
602



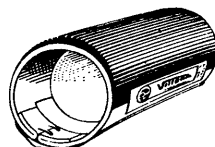
602M



602 C



604



607

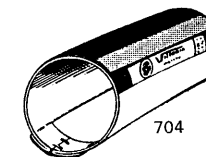


TUBULARS—continued

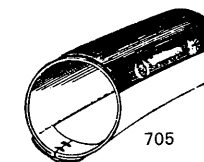
TYPE RACING for TRACK—SILK—Hand made with cotton base tape.

704 PISTARD SILK. Completely hand finished, pure silk body with a special polished smooth **paralatex tread** recommended for front wheel use on cement. Weight **120/130 gms. (4½ ozs.)**.

705 PISTARD SILK. As 704 but with a special polished smooth **black tread** recommended for rear wheel use on cement track. Weight **130/140 gms. (4½ ozs.)**.



704

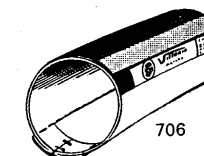


705

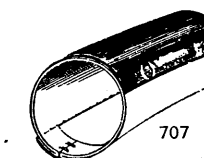
TYPE RACING for TRACK—COTTON—Hand made with cotton base tape.

706 PISTARD COTTON. Completely hand finished, mako cotton body with a special polished smooth **paralatex tread** recommended for front wheel use on wood track. Weight **140/150 gms. (5 ozs.)**.

707 PISTARD COTTON. As 706 but with a special polished smooth **black tread** recommended for rear wheel use on wood track. Weight **145/155 gms. (5½ ozs.)**.



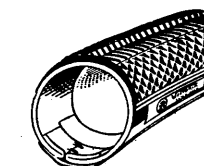
706



707

TYPE RACING for CYCLO-CROSS or GRASS TRACK—COTTON—Hand made with rubber base tape.

802 SUPER CROSS. Completely hand finished tubular, mako cotton body with full non-slip cross black tread at a genuine racing weight. Weight **300/340 gms. (11½ ozs.)**.



802



ACCESSORIES

To match the quality of their tubular tyres A. G. VITTORIA offer these first class tubular tyre accessories:

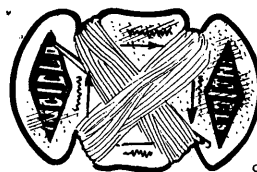
910 BOBINA. Card of tubular tyre sewing thread complete with 2 needles.

920 CORREDO. Tubular tyre repair kit comprising: Tube of Mastice Gutta—tube of solution—910 sewing kit—8 patches—sheet of emery cloth.

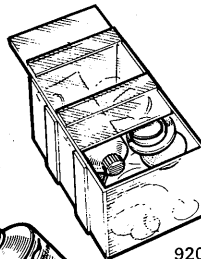
921 MASTICE GUTTA. Rim cement for road tubulars.

923 GOMMA LACCA. Rim cement for track tubulars.

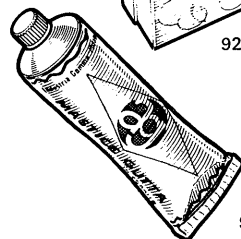
925 GUTTA BIANCO. A new all-white quick drying super rim cement suitable for either road or track tubulars and which requires only one application.



910



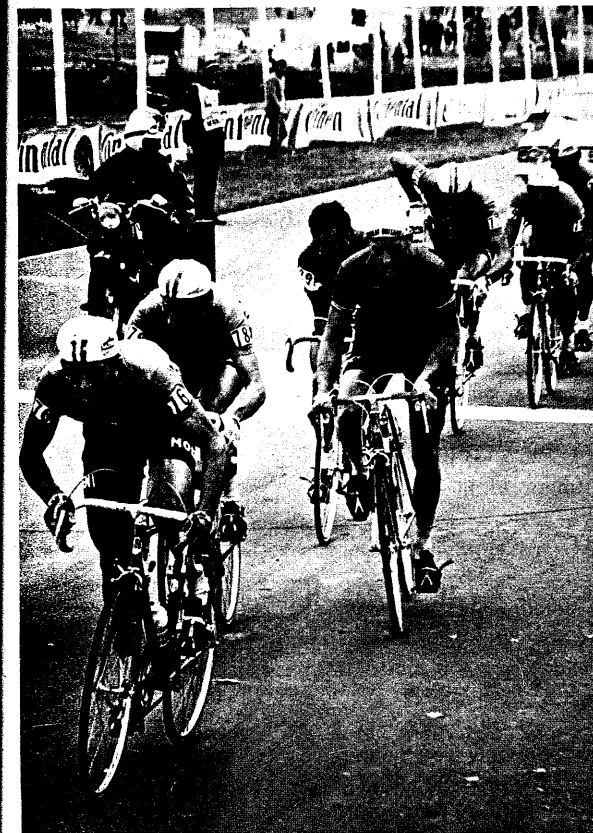
920



921

THE FASTEST THINGS ON WHEELS ARE VITTORIA TUBULARS!

organisation of this most exciting series which culminated with the Professional Road Championship at Mallory Park on 16th August.



Ron Kitching was privileged to act as the chauffeur of the No. 1 **FORD** Executive containing the **Race Controllers** for all the road races and can be seen here following closely the efforts of Britain's Michael **WRIGHT** (centre) surrounded by the Italians **DANCELLI** — **MOTTA** — **GIMONDI** — **SANTANBROGIO** with Alain **VASSEUR** (France) and Jempi **MONSERÉ** (Belgium) in close attendance. Britain's Les **WEST** later made a brilliant effort to gain a medal with 4th place but **MONSERÉ'S** finishing sprint gave him a comfortable win from Leif **MORTENSEN** (Denmark) and Felice **GIMONDI**.

Jempi **MONSERÉ** is yet another Champion to gain Victory on



tubulars



Photos by courtesy of International Cycle Sport magazine.

VITTORIA OF TURIN

Offers these exclusive Cycle Accessories:

The first manufacturer to make a rubber brake lever hood. Five models are now available in finest rubber.

BRAKE LEVER HOODS

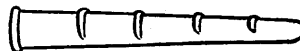
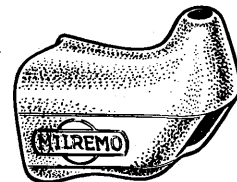
"Tour de France" the original all-round hood in translucent rubber giving a comfortable rest.

"Giro d'Italia" the modern design made to fit most levers. White or translucent rubber.

"Milremo" white moulded rubber hoods with the MILREMO marque embossed on sides.

"Universal" moulded in translucent rubber to fit model 61 levers.

"Balilla" moulded in translucent rubber to fit BALILLA 61 levers.

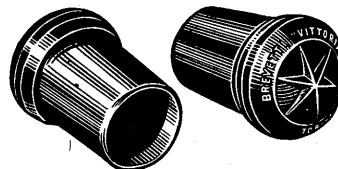


BRAKE LEVER SLEEVES

Rubber—in attractive translucent colour, hard wearing and at an economy price.

HANDLEBAR END CAPS

"Stella"—with patented built-in shock absorbers. In finest translucent rubber these caps are the only type made to guarantee complete protection in case of accident. They are a "must" for every track racing man.



PATENTED TORCH HOLDER

Chrome plated clip that easily fastens to head tube, forks or handlebars and firmly grips a small torch. This very strong and carefully shaped article avoids the carrying of a cycle lamp. Weight 2 ozs. (57 gms.).

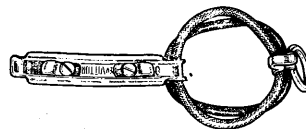


TUBULAR TYRE CARRIER

"Fulmine" consists of a light dural frame which clips across the two wires under the saddle.

Attached to one end are double bands made in a special rubber, stamped under pressure and having exceptional strength and durability.

At the other end of the rubber bands is a finger loop and security hook which attaches to another hook at the opposite end of the frame thus securing the spare tubular tyre firmly to the underneath of the saddle, but at the same time keeping it readily accessible when required in an emergency.



NOTE: The "Fulmine" will also carry a cape or similar parcel. A necessary accessory for every racing man.

WOLBER

One of the most famous tyre firms in Europe now produces a selection designed to meet every requirement, be it for junior, tourist, track rider or roadman. Years of experience in tyre production have resulted in the most comprehensive range ever offered at prices which are really competitive. Produced in the most modern of factories WOLBER tyres and tubulars are made by experts using only the finest materials. If only the best is good enough—specify WOLBER.

TUBULAR TYRES

Modern in both design and material used, WOLBER offer you a range of 9 superb models, each one individually designed to meet your requirements. Every WOLBER tubular is fitted with non-porous tube and strong vulcanised base tape. For training reliability or racing success you can rely on WOLBER. Choose from the following range:

"Renforce". The famous all-black fully rubbered tubular. Ideal for the all year round tubular user. Mixed tread. Weight 12 ozs. (340 gms.).



"Junior". Without doubt one of today's best in value and reliability. Tough black tread with deep section centre rib and file non-slip side walls. Weight 11 ozs. (312 gms.).



"Junior Blue". As "Junior" except with attractive and distinctive all-blue fully rubbered tread. Weight 11 ozs. (312 gms.).



"International". A quality tubular at a sensible price. Narrow section with ribbed centre and translucent file pattern side walls. Egyptian cotton pocket. Weight 8 ozs. (226 gms.).



"Special Course". A strong sturdy tyre, yet light in weight. Narrow section with hard mixed tread and translucent side walls. Fitted with elastic rubber strip and extra light pure gum tube. Weight 9 ozs. (255 gms.).



"9 ozs.". A short distance road tubular with fine ribbed tread and translucent side walls, giving maximum security on all road surfaces in all weather conditions. Weight 9 ozs. (255 gms.).



"Cross". A really light but reliable cyclo cross tubular with special all-over rough file non-slip tread coming well down the sturdy walls. Weight 10 ozs. (280 gms.).



"Transalpino Invulnerable". A most popular hand made racing tyre for the rider who wants the best. Fine file ribbed centre tread with file covered sides. Reinforced with two canvas breaker strips and a pure gum cushion strip. Weight 9½ ozs. (260 gms.).



"Transalpino Criterium Silk". The Transalpino quality lightened and made lively in silk for speedy criteriums. Weight 7½ ozs. (210 gms.).



WOLBER

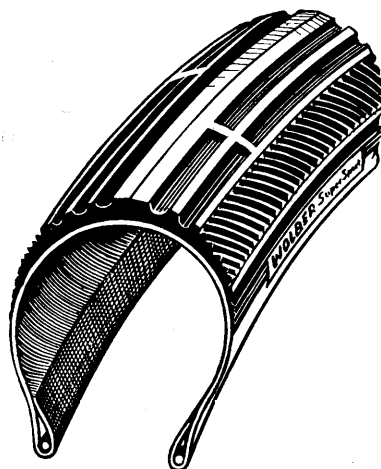
WIRED-ON TYRES AND TUBES

WOLBER produce a complete range of quality tyres and tubes and of special interest is the **SUPER SPORT High Pressure Tyre**

Designed expressly for the British market to fit 27"×1½" High Pressure rims these tyres fill the long felt need for a better product.

Look for these "Super Sport" features:

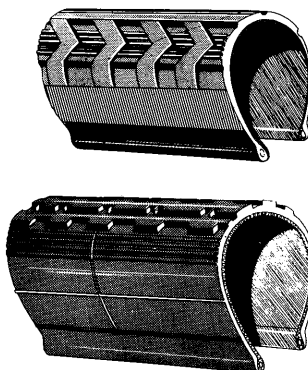
- ★ Weight only 13½ ozs. (382 gms.)—much lighter than average Pressure tyre.
- ★ Deep sided black tread with exclusive diagonal ribbed walls for safe cornering.
- ★ Centre section deep ribbed for effortless speed.
- ★ Strong cord casing with flexible translucent walls. Choice of 2 models.
- ★ Black treads with white or translucent walls.



The WOLBER "Super Sport" is the truest tyre ever made and the safest and most reliable.

To complete the set there is also a **SUPER SPORT inner tube** fitted with best quality French Presta valve for HP connectors and also a neat narrow light **rubber rim tape**—all at reasonable prices.

A complete range of quality **wired-on tyres** with black treads and with either white or translucent walls and a range of **inner tubes** to match in non-porous rubber fitted with valves with vulcanised base is also available in all popular sizes, both **British** and **Continental**. See the separate price list for details of the sizes available.



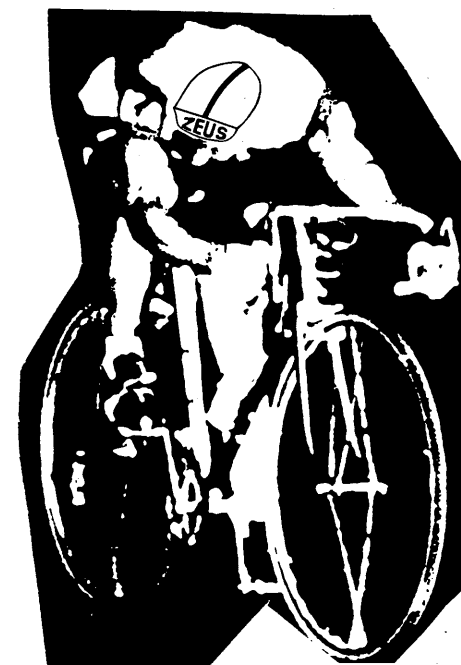
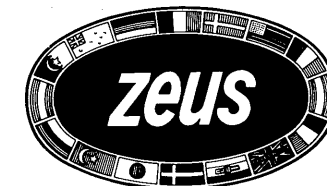
Introducing ZEUS products is a pleasure—firstly because in this age of skyrocketing prices anything which is obviously good value is obviously worth looking at—and secondly having examined ZEUS products one realises that they represent more than good value, that they are in fact **really good** in every respect.

Now clubmen and racers in recent years although complaining of the high cost of so called "gen" equipment have nevertheless paid the price if only to have the peace of mind of knowing that they were using the same equipment as the star "pros" who ironically really have no personal choice and who are in any case freed from worry over equipment failure due to the assistance of modern day race servicing.

The fact that some ZEUS products are almost identical in appearance to others costing from 40 to 70% more is enough reason to ask if there has been a sacrifice in quality, strength or finish, but in fact the reverse is the case. ZEUS products are actually being **preferred** now by discerning riders more and more every year on just those three very important points.

Take crank breakage for example, the unspoken fear of every cyclist who uses cotterless alloy chainsets. When one sees a ZEUS alloy crank hammered into a complete circle without even the appearance of a crack it is easy to understand how the British pro teams of **MACKESON — CARLTON — SUN — FALCON — COVENTRY EAGLE — CROAD — BOB JACKSON — TOWER CYCLES — BAKER** have all reported complete seasons free from trouble with broken cranks while using ZEUS, a claim previously unknown with more expensive equipment. Continental riders too of the calibre of **PETER POST, RIK van LOOY** and the 1969 World Pro Road Champion **HARM OTTONBROS** are among the many champions who now endorse ZEUS quality.

Design, intelligent use of modern materials, service and availability of spares after sale are other factors which make the ZEUS range of accessories the fastest climbers in the popularity charts. The message is therefore—for the cyclist who wants quality and top design without having to pay an exorbitant price—**Buy ZEUS**—you will quickly know that you have not had to put up with second best and above all that you have not been overcharged.





BOTTLE

Vuelta. Made in superior pearl white plastic, guaranteed odourless with attractive coloured ZEUS badge. Designed to withstand enormous pressure and to take hot or cold liquids, this bottle is fitted with a non-leak cap which has a centre hole for either drinking straw or which can be sealed with hinged plug attached. Weight 2 ozs. (56 gms.).

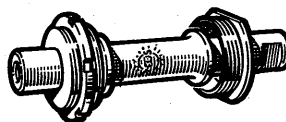


BRACKET FITTINGS

34 Gran Sport. Perfectly machined in British dimensions. Really light with a fully hollowed round axle for **cottered** cranks complete with two ground cups and distinctive lock ring. Axle one size only for single crank set 127 mm x 55. Weight 9½ ozs. (260 gms.).

33 Criterium. Superb quality **cotterless** bracket set with squared axle end for **cotterless** cranks. Made of high quality heat treated steel with cups with tempered ball races. Complete with axle end bolts. For double crank set. Weight 9½ ozs. (270 gms.).

Also Ref. **33.1** Criterium for triple—**33.2** for cyclocross, and **33.3** for Pista track crank set.



34 Grand Sport

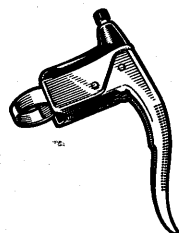
BRAKES

Two models designed for racing and constructed in highly polished exclusive **SUPER EARLUMIN II**.

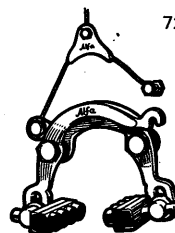
72 Alfa. This racing brake, already adopted by many of Europe's premier racing teams has the neatest of centre pulls with these additional features:

- ★ Two independently operated powerful return springs giving maximum leverage and equal braking action.
- ★ Fully adjustable brake shoes fitted with special non-slip 4 stud blocks.
- ★ Complete pivoting of all parts of cable attachment.
- ★ Instant cable release allowing free passage of a badly buckled wheel and immediate disengaging of the brake.
- ★ Brake bolt in special steel giving a braking resistance of over 3,000 lb.
- ★ Economy in weight only 29 ozs. (820 gms.).

The ease of working of this brake and the strength of braking almost eliminates any risk of breaking cables. Fully guaranteed it requires only one finger to operate. Supplied complete with hooded racing levers fitted with neat rubber caps, transmissions and cable supports.

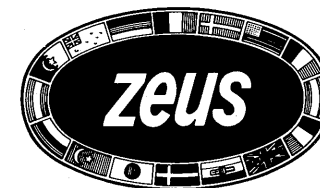


72 Alfa



BRAKES

71 Super Alfa. A really neat brake using the reliable independently sprung stirrup arms operated by a single straddle cable giving maximum braking power. Coil springs mounted on bushed pivot bosses ensure an instant release but allow the blocks to "follow" an untrue rim. The straddle wire is easily slipped from its socket to allow instant wheel removal. Fully adjustable brake shoes fitted with 4 stud "all weather" blocks. Supplied complete with hooded racing levers, rubber caps, transmissions and Q.R. cable supports. Weight 29½ ozs. (830 gms.).



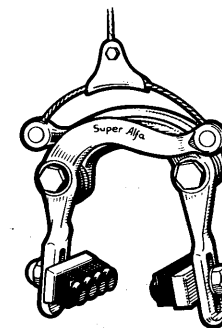
BRAKE HANGERS

77. Front head tube fitting, chromed. Weight 5/16 oz. (10 gms.).

78. Rear bolt attachment. Weight ¼ oz. (4 gms.).

74. Front head tube fitting incorporating Q.R. for instant wheel removal. Chromed. Weight 1½ ozs. (47 gms.).

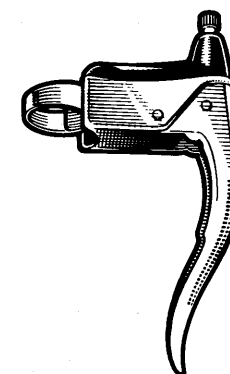
75. Rear as above but seat bolt fitting. Chromed. Weight 1½ ozs. (31 gms.).



BRAKE LEVER

73 Alfa. Classic hooded design with rounded inside edges avoiding any roughness to the fingers. Spring steel lever clip with extended bolt which slots through the lever block and is held firmly by an easily accessible nut. The lever blade is serrated to ensure maximum grip. Fitted with rubber lever hood with built in adjuster. Weight 3½ ozs. (110 gms.).

Ref. **753/4.** The hood is available separately if required in a choice of colours.



BRAKE STIRRUPS

Alfa and Super Alfa stirrups are available as separate items complete with brake blocks and straddle cables.

79. Alfa. Weight 7½ ozs. each (208 gms.).

76. Super Alfa. Weight 6½ ozs. each (190 gms.).

BRAKE TRANSMISSIONS

73.1 Front inner and outer cable. Overall length 650 mm.

73.2. Rear inner and outer cable. Overall length 1,300 mm.

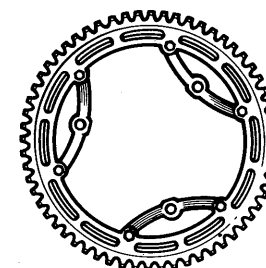
BRAKE CABLE CLIPS

16. Chrome top tube clip for double cables. Weight ½ oz. (5 gms.).

17. Chrome top tube clip for single cables. Weight ½ oz. (4 gms.).

CHAINWHEELS

36 Chrome. 3 Arm double pattern to fit all popular British and Continental 3-pin cranks. Fully demountable allowing rings to be changed easily. Made of tempered steel with inner rings of 46, 47 or 49, outer rings 49, 50 or 52. Weight 16½ ozs. (475 gms.).



CHAINWHEEL SETS (All supplied complete with rings and bracket set but less tools).

Here is a complete range of **cotterless** crank sets designed to meet the needs of every sporting cyclist. Both cranks and rings are constructed in the **SUPER EARLUMIN II** light metal exclusive to ZEUS, forged and treated to exacting standards. Bracket fittings are of the same high quality and the classical standard squared end axles are fitted with end bolts that have extra large chrome plated heads. These not only allow greater leverage but the chrome head enhances the appearance and dispenses with the need for removing unnecessary dust caps when applying the extractor spanner in emergencies.

32 COMPETICION. ZEUS exclusive double chainwheel with outer ring bolted to strong square section cranks. Inner ring held by Allen Key recessed bolts and bushes. Complete with bracket set Ref. 33. Inner ring sizes 43-50, outer ring sizes 48-54. Weight 32 ozs. (910 gms.).

31 CRITERIUM (E). Double crank set for the connoisseur with superb cranks machined to fine limits from solid alloy forgings. The rings, machined from solid blanks of alloy, sit squarely on the crank arms ensuring a true and accurate chain line. 5 mm screwed bushes lock the rings firmly together with the crank arm acting as a precision spacer.

CRITERIUM (E) crank sets are designed to accommodate an **inner ring of only 36T**, thus offering a wider range now demanded by the modern racer.

Supplied complete with bracket set in British dimensions and inner and outer rings are fully interchangeable with sizes available 36 to 54. Weight 30-34 ozs. (852-964 gms.).

31.1 CRITERIUM (E) Triple. As 31 set but with axle for triple and with three interchangeable rings 36-54. Weight 32-36 ozs. (908-1020 gms.).

31.2 CRITERIUM (E) Cyclo-Cross. A special set for cyclo-cross racing. Single ring fitted with strong dural chainguards to prevent the chain from derailing when riding over uneven ground. Supplied with bracket set 31.2. All popular ring sizes available. Weight 32-36 ozs. (908-1020 gms.).

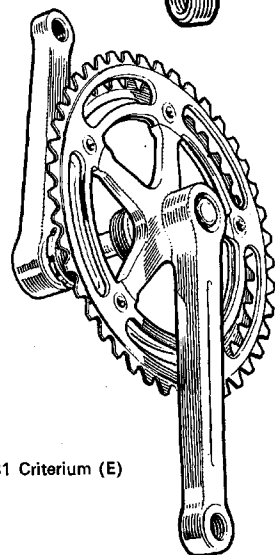
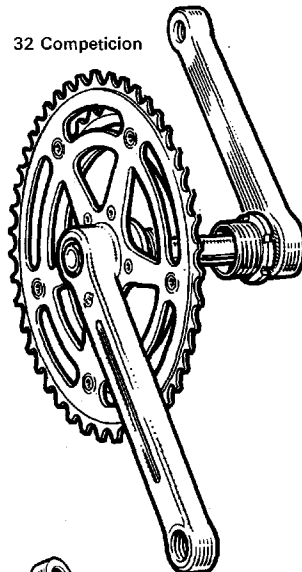
31.3 CRITERIUM (E) Pista. Top quality set designed especially for the track rider. Cranks machined with a single shoulder on which fits a highly polished ring, held by strong Allen Key fitting bolts and bushes. Supplied with bracket set Ref. 33.3 which has an axle shorter than the double giving a correct single chain line. Chainring sizes available ($\frac{1}{2}$ " \times $\frac{1}{8}$ " or $\frac{1}{2}$ " \times 3/32") 46-54. Weight 27-31 ozs. (764-877 gms.).

NOTE: COMPETICION and CRITERIUM cranks are available in lengths of 170—172.5—175 and 177.5 mm.

Crank extractors and spanners are not included but can be purchased separately.



32 Competition



31 Criterium (E)

CRANKS

37 ALFA. Made in high resistance specially treated steel. Forged pattern in extra light section, incomparably rigid and attractively fluted and de luxe chrome plated. Semi G.C.C. suitable for single or double chainwheels. Length 170 mm. Weight 19½ ozs. pair (552 gms.).

CRANK COTTERS

35 CHROME. 9 mm with nut and washer. Standard milling for Continental cranks. Weight ⅔ oz. (17 gms.).

GEARS

Zeus offer a range of gears to suit every purpose and pocket. Modern in design, famous for quality, without equal in reliability. ZEUS gearing is different and better. There is a choice of four models.

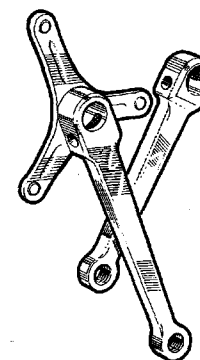
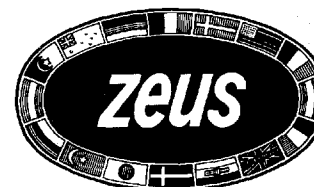
FRONT CHANGERS

24 ALFA 65. The economy changer. Cable operated from a left hand lever transferring thrust against a bearing rod situated in a neatly enclosed seat tube body. The shaft is set at an angle so that the space between cage and chainring remains constant, resulting in a positive change every time. Spring loaded adjuster screws are easily accessible. Suitable for double or triple chainrings. Supplied complete with left hand down tube lever, transmission and cable stop. Weight 9½ ozs. (269 gms.) or mechanism only Ref. 23. Weight 6½ ozs. (175 gms.).

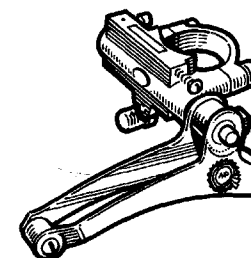
22 CRITERIUM 69. Compact cable operated front changer. Fitted to down tube with single hinged clip. Top quality alloy body with chromed steel cage mounted on two short arms which are spring loaded. Adjuster screws incorporated into changer body and easily accessible. Simple in operation with adequate movement for double or triple chainwheels. Supplied complete with left hand down tube lever, transmission and cable stop. Weight 8 ozs. (227 gms.) or mechanism only Ref. 21. Weight 4¾ ozs. (140 gms.).

REAR GEARS

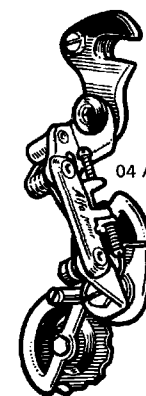
04 ALFA JUNIOR. Now recognised as the finest gear in the popular price range. Improved wrap round giving a much quicker change with less lever movement. Made of chromed steel plates the parallelogram body pivots between two spring loaded adjuster screws. Powerful traverse and return springs ensure correct tension on the chain at all times. Fitted with nylon rollers running between a well spaced cage for $\frac{1}{8}$ " or 3/32" chain. ALFA JUNIOR gears are designed to allow a difference of 26 teeth on chainring and freewheel. Complete with right hand down tube lever, transmission, down tube tunnel and chainstay tube. Weight 11½ ozs. (326 gms.). Mechanism only Ref. 23. Weight 8½ ozs. (240 gms.).



37 ALFA



24 ALFA 65



04 ALFA Junior

REAR GEARS—continued

02 CRITERIUM 69. Now the most successful gear in open competition. It is the choice of all star riders and is accepted as part of the high class specification on the best machines. The main parallelogram is made of high quality alloy and pivots on bronze bushes housed in chromed steel body ends. The roller cage is fully supported in all positions with a strong machined pivot bolt which is seated into the lower body end and is spring loaded. Set between the para arms is a strong traverse spring designed to ensure quick and positive gear change over 4, 5 or 6 speed freewheels. Spring loaded adjuster screws allow any number of free-wheel cogs up to 6 to be used with the same mechanism over a wide range of ratios with a difference of 16-18 teeth. Fitted with nylon rollers and complete with right hand down tube lever, transmission, down tube tunnel and chainstay stop. Weight 12½ ozs. (347 gms.). Mechanism only **Ref. 21.** Weight 9 ozs. (250 gms.).

GEAR ENSEMBLES

03 ALFA JUNIOR. ALFA rear and front changer with twin down tube lever, transmissions, tunnel and stop and chainstay stop. Weight 17 ozs. (482 gms.).

01 CRITERIUM 69. Rear and front changer with twin down tube lever, transmissions, tunnel and stop and chainstay stop. Weight 21 ozs. (594 gms.).

GEAR CONTROLS

11 CRITERIUM/ALFA. Right hand down tube lever. Highly chromed clip and bolt with strong alloy lever, centre hinged wing nut for easy friction adjustment or cable replacement. Supplied complete with inner and outer cable for rear gear. Weight 2½ ozs. (70 gms.).

12 CRITERIUM/ALFA. Twin down tube lever similar to single lever supplied with cables for front and rear gears. Weight 4 ozs. (116 gms.).

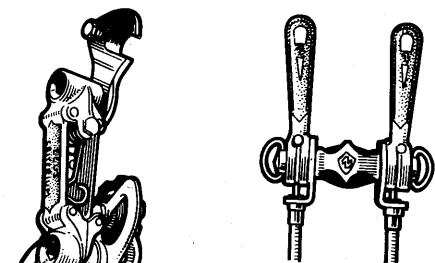
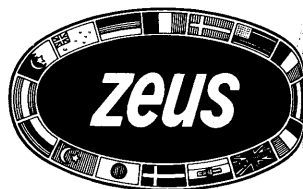
GEAR TUNNEL AND STOPS

14. Chrome plated down tube tunnel and stop for gear ensemble complete with fixing nut and bolt. Weight ¾ oz. (20 gms.).

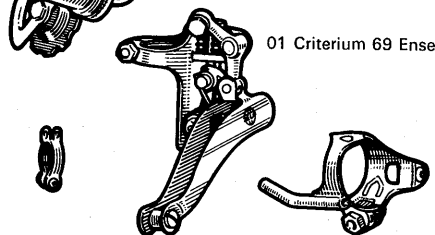
13. Chainstay cable stop for rear gear. Chrome plated with fixing nut and bolt. Weight ⅓ oz. (4 gms.).

GEAR LEVER RUBBERS

18 ZEUS. Well designed rubber cover for gear or hub quick release levers available in all popular colours. Weight ⅓ oz. (4 gms.).



01 Criterium 69 Ensemble



11



14

13



18

HEAD FITTINGS

61 GRAN SPORT. Top quality head set with precision ground bearing races. Special hard chrome throughout. Using 5/32" bearings, the screwed race and locking nut is flatted to enable an octagon spanner to be used. Manufactured in British dimensions. Weight 6½ ozs. (190 gms.).

HUBS

The most popular hubs now in use. Race proved by champions ZEUS hubs are sure to please the discerning cyclist. Manufactured in heat treated highly polished duralumin offering lightness with durability. Fitted with ground bearing races to guarantee extra smooth running. Choice of 4 superb models as follows:

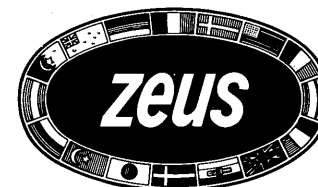
80 STANDARD. Small flange non quick release. Single side gear only. Complete with track nuts. Drillings 28/28, 36/36 and 32/40. British dimensions. Weight—Front 7½ ozs. (206 gms.) Rear 10 ozs. (283 gms.).

81 GRAN SPORT. Small flange, quick release. Machined from solid blocks of alloy and fitted with superb quick release mechanism with a single finger sufficient to effect release from the locked position. Adjusting nuts are locked by a sprung conical end nut and springs which centre the spindle for easy wheel replacement. Single sided gear only with a choice of drillings 28/28, 36/36 and 32/40. British dimensions. Weight—Front 8½ ozs. (234 gms.) Rear 10½ ozs. (296 gms.).

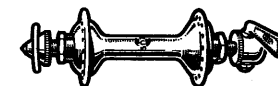
82 GIGANTE. A superb large flange, quick release hub machined from solid alloy with distinctive elongated cut outs in the flanges, ensuring weight being kept to a minimum but at the same time ensuring maximum strength. Fitted with axle for 4, 5 or 6 speeds and quick release skewer assembly for instantaneous removal. Single sided gear only with drillings 24/24, 28/28, 36/36 and 32/40. British dimensions. Weight—Front 9 ozs. (255 gms.) Rear 12 ozs. (340 gms.).

83 PISTA. The latest hub introduction, large flange track hubs of the finest quality and workmanship. Using the same high quality materials as GRAN SPORT with elongated flange cut outs and solid axle with chrome track nuts and lock ring. Single sided fixed only. Drillings 28/28, 36/36, 32/40. British dimensions. Weight—Front 8 ozs. (227 gms.) Rear 11 ozs. (311 gms.).

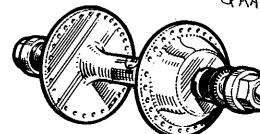
ZEUS hubs are available separately if required. A full spares service always available.



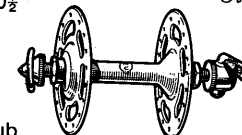
61 Gran Sport



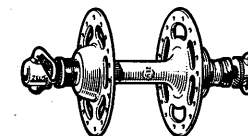
81 Gran Sport



80 Standard



82 Gigante



83 Pista

**JOIN THE ZEUS 'CRITERIUM' CLUB NOW
AND RIDE IN THE BEST OF COMPANY**

HUB COGS

83.1 PISTA. An entirely new item which has taken years to perfect. Without doubt the lightest fixed hub cog available. A must for the track rider. Offset to give a good chain line, these sprockets are only available to date in $\frac{1}{2} \times \frac{1}{8}$ " sizes. Weight $\frac{1}{2}$ oz. (14 gms.).

PEDALS

First class in design, ZEUS pedals are reliable in use and economical to buy. Two models available in British dimensions:

41 GRAN SPORT. Superb road pedal, the finest yet produced. Single construction highly polished alloy barrel with housing races of hard chrome finish for longer bearing life. Polished steel frame "tapped" for toeclip fastening, and with small triangular tab for easy "pick up". The frame also incorporates a special clip for retaining the toestrap in a correct position. Fitted with serrated chrome dust cap. Choice of 2 sizes of axle, threaded length 10 mm for standard cranks or 15 mm for alloy cranks. Weight $15\frac{1}{2}$ ozs. pair (440 gms.).

42 PISTA. Track pedal with barrel and axle as GRAN SPORT pedal. The highly chromed steel side plates are only 3" wide having no quill extension beyond the dust cap. Complete with "pick-up" tap and toeclip fixing bolts. Axle lengths as "GRAN SPORT". Weight $14\frac{1}{2}$ ozs. pair (410 gms.).

PUMPS

47 ZEUS. Strong plastic pump with seamless plunger, and braided connection. Size 18" only. Available in colours red, white, blue and green. Weight 5 ozs. (142 gms.).

PUMP ADAPTOR

47A ZEUS. Horned adaptor to fit pumps with English threading. Made of the toughest white plastic. The valve seats easily into the rubber adaptor washer and one sharp tap on the pump is sufficient to release the adaptor from the valve. Weight $\frac{1}{4}$ oz. (7 gms.).

PUMP CUP

15 PORTA BOMBA. Chrome cup seat tube fitting suitable for pumps with or without adaptor. The clip is extended to ensure a firm fit and will not slip. Complete with fixing nut and bolt. Weight $\frac{1}{2}$ oz. (15 gms.).

SADDLE PILLAR

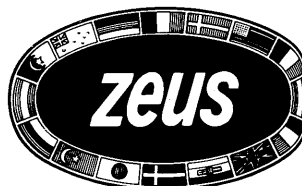
Without doubt today's leading saddle pillar is ZEUS. Exact adjustment of saddle angle combined with adequate forward movement are the main features. Seat pin is machined from aluminium forging and the saddle cradle made from top quality forged steel finished in immaculate satin chrome. Available in the following sizes: 26-2, 26-8, 27-0, 27-2 and a choice of four different models.

51 CRITERIUM. 2-wire pillar, fully adjustable. Length 130 mm. Weight $10\frac{3}{4}$ ozs. (302 gms.).

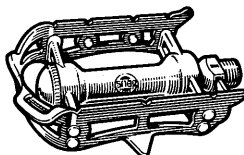
52 CRITERIUM. As above but 180 mm long. Weight $11\frac{1}{2}$ ozs. (326 gms.).

53 IDEALE. Special pillar for saddles with alloy frame. Fully adjustable. 130 mm long. Weight 10 ozs. (282 gms.).

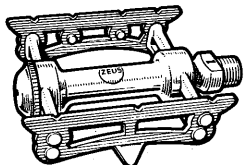
54 IDEALE. As above but 180 mm long. Weight $10\frac{3}{4}$ ozs. (304 gms.).



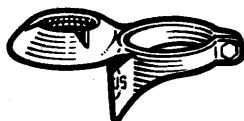
83.1 Pista



41 Gran Sport

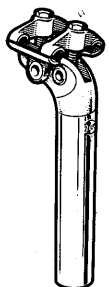


42 Pista

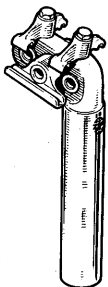


15 Porta Bomba

51 Criterium



53 Ideale



SEAT BOLT

55. Standard flat under head seat bolt. Fully chromed. Weight $\frac{3}{8}$ oz. (22 gms.). With washer and lipped nut weight $\frac{1}{2}$ oz. (18 gms.).

SPANNERS

For every adjustment and repair it is essential to have the correct spanner. With this in mind ZEUS have designed a range of tools capable of carrying out adjustments etc. to all accessories, whether it be a small roadside repair or a workshop overhaul. Zeus spanners will also fit other makes of cycle accessories. The following are the current range. Remember the correct spanner ensures a correct repair.

3.05 M5 ALLEN KEY. Suitable for chainring assembly bolts. Top quality steel. Weight $\frac{1}{2}$ oz. (15 gms.).

2.01 M8 x 6 L-Shaped ALLEN KEY. Chrome plated. Essential for gear adjustment. Socket head to fit 8 mm nuts. Weight 1 oz. (30 gms.).

5.01 13 x 10 CRANKED SADDLE SPANNER. Shaped to give maximum strength with minimum leverage. Weight $1\frac{1}{2}$ ozs. (45 gms.).

4.01 SMALL STEEL PEDAL DUST CAP SPANNER. A must for ZEUS pedal users. Inside serrated to fit pedal dust cap. Weight $2\frac{1}{2}$ ozs. (73 gms.).

3.02 2-Way SPANNER. For bracket lock ring and fixing cup. One end circular with lip for lock ring and an open end for fixed cup. Quality steel. Weight $8\frac{1}{4}$ ozs. (235 gms.).

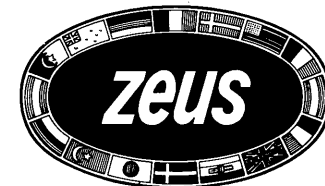
3.03 EXTRACTOR SPANNER. To fit COMPETICION and CRITERIUM axle end bolt. Small box design with tommy bar. Weight $1\frac{3}{4}$ ozs. (50 gms.).

3.04 EXTRACTOR TOOL—COMPETICION and CRITERIUM crank set. Weight $3\frac{1}{2}$ ozs. (98 gms.).

8.01 OPEN ENDED SPANNER. Hardened steel flat designed to fit two sizes of pedal axle 14×13 mm. Weight $1\frac{3}{4}$ ozs. (47 gms.).

3.01 SPANNER. Designed especially for ZEUS bracket adjusting cup. Fitted with pegs which locate into the cup, the spanner has sufficient handle length for maximum leverage. Weight $7\frac{1}{2}$ ozs. (210 gms.).

2.02 OPEN ENDED SPANNER. 11×7 for gear roller adjustment. Weight $\frac{1}{8}$ oz. (4 gms.).



3.05



2.01



5.01



4.01



3.02



3.03



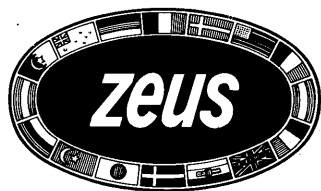
3.04



8.01



3.01



8.02 FREEWHEEL REMOVER. A new addition to the ZEUS range of spanners. Small multi-splined remover made of high tensile steel. Ideal for carrying in the pocket or saddle bag. Weight 1½ ozs. (31 gms.).

8.03 SPOKE NIPPLE KEY. Round pattern made of hardened steel. Four sizes to suit all popular nipple sizes. Weight 1½ ozs. (31 gms.).

19 TUBULAR TYRE CARRIER

Consisting of a light dural strip attached across saddle frame wires with special rubber bands fitted to firmly hold either spare tubular tyre, cape or parcel. Release is easily effected by lifting off the security hook with the handy finger loop. Weight 1¾ ozs. (50 gms.).



8.02



8.03



19

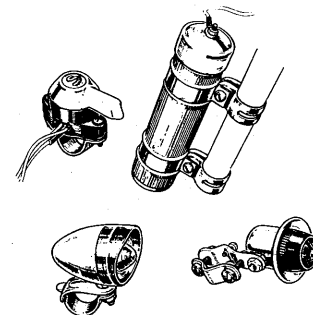
STOP SAVING UP - AND BUY ZEUS NOW!



STOP PRESS PAGE

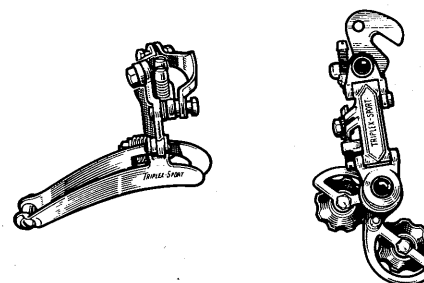
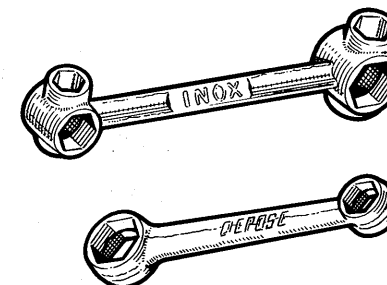
BIKE PALS Blinker Lamp Set

Two hooded dome-shaped amber front lamps and two red rear lamps operated by a simple handlebar switch. Container clips securely to the frame.



INOX Bronze Spanners

Two light but extra strong cycle spanners made in aluminium bronze. Accurately made holes that fit all popular cycle nut sizes: Small 4-way and larger 8-way sizes.



TRIPLEX "Sport" Gear Ensemble

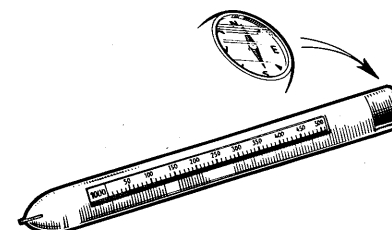
The new all duralumin derailleur weighing complete with double DT control levers, cables, tunnels and stops only 18 ozs. (510 gms.).—Front changer 4 ozs., rear mechanism 6½ ozs.



EYEGGLASS HOLDER

GLASS GARD Eyeglass Holder

A simple attachment that should be used by spectacle wearers on all sporting occasions.



BEMETEX "Milograph" Map Tracer

In light plastic material and in a plastic case, the "Milograph" has a variable scale to match that of your map and is invaluable in measuring route distances. Also available with incorporated compass.