HAND CRAFTED
NO COMPROMISE
DESIGN QUALITY
COMPONENT
SELECTION
ULTIMATE
PRODUCT
PERFORMANCE

RACE • TRAINING • MTB • CITY • FRAMESETS
RALEIGH SPECIAL PRODUCTS DIVISION

Raleigh Lightweight bicycles and framesets are handbuilt in our Special Products Division independent of the main Raleigh factory in Nottingham. Combining the skills and craftsmanship of the specialist builder with the advantages of a modern manufacturing company, our workforce is dedicated to the production of high quality, handcrafted products particularly suited to the wide-ranging demands of the modern cyclist.

Special Products Division is responsible for the production of the framesets for Raleigh's racing teams, and has achieved many successes in professional and amateur events worldwide. Special Products Division also performs the vital research and development function for Raleigh Industries, providing a test bed for product design and innovation.

FRAMES

Cycling as a sport or leisure activity has many facets, each with its own specific requirements. Touring bikes must be comfortable to ride over long distances with heavy loads, while racers must be light & lively with minimum clearances for maximum power transmission.

The heart of every bike is its frame. The care and attention that goes into its design and manufacture are critical for the performance and fitness for purpose of the chosen product.

We cover the whole range of cycling activity from road racing to mountain biking. From Triathlons to Himalayan tours, with seven different frame design configurations. Not content with that, we also tailor each individual frame size to best suit the likely rider — so pondering to volume production requirements here!

But the design of the frame is not just about angles, tube lengths and clearances, but also the quality of the frame tube material, and the care with which the whole assembly is put together.

We use exclusively Reynolds stainless Molybdenum buttressed tubes on our assembled bicycles, either in its basic 531 three main frame tube format — as on Strads and Els — to its full 531 Competition, 531 Super Tourist and 653 sets on the more expensive racing and touring models. Additional manipulated items — chainstays, seatstays and fork blades — are specified in high grade carbon steel to Raleigh's unique 18/23 specification.

All joints are fully mitred, huggled and brazed to ensure the best combination of weight and strength, with fittings.

After coating inside and out with automotive standard, corrosion resistant, electrophoretic primer, frames and forks are individually hand sprayed and given a final lacquer coat to protect the unmistakably styled Lightweight custom decor.

WHEELS

Quick-release wheels are a standard fitting on Raleigh Lightweight, and greatly assist transport or service of the bicycle. Many models also feature stainless spokes, and the hollow section alloy rims ensure strength in this critical area. Many models are also equipped with rear free-hubs which, with their wider spaced bearings and reduced damping are better able to cope with the drive stresses imposed on the rear wheel.

GEARS

All Lightweight models are fitted with Shimano SIS indexed derailleur gears, for fast, precise, adjustment-free gear shifting. The number of gears and the gear ratios have been specified according to the intended use of the product, but are mutually interchangeable to allow the rider to customise.
In a class of its own.
Reynolds 653 specially treated butted manganese molybdenum tube set — 653 taper gauge fork blades and stays — precision cast lugs and bottom bracket shell — full Shimano Santé groupset — 14 speed SIS indexed gears — Biopace chainrings — anodised aero rims — stainless spokes — Turbo Special Lycra covered saddle — TTT anodised handlebar and stem — reflective high pressure tyres — limited production.
Colour — Oyster, with hand painted pearl grey lugwork.
Sizes — 54.5, 57, 59.5, 62 cms.

**TYRES**
TYRES rarely get the consideration they deserve. Raleigh Lightweight racing, touring and city-bikes are all fitted with modern high-pressure solid tyres, featuring highly developed tread compounds and carefully constructed casings to give improved puncture resistance and lower rolling resistance. For your added safety, they also incorporate a reflective stripe vulcanized into the sidewall, creating a highly visible circle of light when picked up by car headlights; the lack of a bulb-on-wheel reflector also improves wheel balance.

**CHAINWHEELS**
Many of the bicycles on the following pages feature Bespox chainwheels. These are computer designed to provide a pleasing action that more closely approximates natural human leg movements, and eliminates the “dead spot”. This is particularly suited to climbing hills and existing newcomers to cycling to achieve efficient cadence. Round rings are fitted to the Road Ace Select as this model is aimed at the more experienced racing cyclist.

**BRAKES**
The new Shimano Center Response system has been incorporated into all our racing and touring models, and arrests in the feel and sensitivity of the brakes, greatly enhancing braking control.

**HANDLEBARS**
Not only do Lightweight frames vary according to purpose and size — so do the handlebars. The bars on racing and training models are 2 cm wider on 59.5 cm and 62 cm frames than on the two smaller sizes, to take into account the broader shoulders of the infat rider. Touring bikes are equipped with a Randonneur bar, a style favoured by many long-distance cyclists. Even city-bikes have their own style of bar chosen for its modern shape and easy position and adjustment to ensure correct reach and a good riding position.
Just check out the models in this catalogue at your Raleigh Lightweight Dealer and experience the Raleigh Lightweight difference.
Affordable performance and style — 531 butted main tubes race geometry frame — Shimano Exage A452 groupset — 14 speed SIS gearing — Biopace chainset — SLR brakes with aero levers — aero rims — stainless spokes — reflective 700 x 20C tyres — custom Lightweight saddle and handlebar set.

Colour — Mid Blue.
Sizes — 54.5, 57, 59.5, 62 cms.

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Full feature sports bike with the Lightweight pedigree — 531 butted main tubes training geometry frame — Shimano Exage A350 groupset — 12 speed SIS index gears front and rear — Biopace chainrings — SLR colour finish brakes with aero levers — aero section rims — high pressure 700 x 20C tyres with high visibility reflective side stripe — custom styled lycra covered saddle and handlebar set.

Colour — Ice Blue.
Sizes — 54.5, 57, 59.5, 62 cms.
Impressive looks with performance to match — 531 butted main tubes race geometry frame — 531 fork with large oval blades and precision cast crown — latest version of Shimano 105 groupset — 14 speed SIS gearing — Biopace chainset — SLR brakes with aero levers and multi-position quick release feature — stylish colour finish on all components — full Lightweight custom features.

Colour — Horizon Grey.
Sizes — 54.5, 57, 59.5, 62 cms.
Reynolds 531 Competition tubing and Shimano's 600 Ultegra groupset are skillfully blended to produce a ready to race bicycle that is unequalled for value — 14 speed SIS gears — round 53/42 tooth chainrings for the experienced rider — SLR brakes with aero levers — high quality TTT anodised alloy bar and stem — anodised aero rims with stainless spokes — high pressure 700 x 20C reflective tyres — Nabuk leather covered racing saddle.

Colour — Pearlescent Blue/White/Grey.
Sizes — 54.5, 57, 59.5, 63 cms.

Series II version of this popular training and triathlon bicycle — 531 butted frame tubes and 531 fork, — training geometry — latest Shimano 105 groupset — 14 speed SIS — Biopace — SLR brakes — new lycra covered saddle — Lightweight styled handlebar stem — multi-purpose pedals — reflective tyres — twin feeding bottles.

Colour — Blue/White/Red/Yellow.
Sizes — 54.5, 57, 59.5, 62 cms.
See the Raleigh Frameset Leaflet for complete specifications.
Hard rider or pothole dodger, the Mountain Bike has proved to be the most exciting development in adult leisure for many years. The wide range of mid-price models from Raleigh are now joined by four completely new machines from the Lightweight Division.

From the race-ready Avanti to the lively Chinook, the range features all the latest quality components teamed with Raleigh Lightweight's inimitable and distinctive styling — and all designed, manufactured and assembled in Nottingham with the care and attention to detail that is the hallmark of a genuine Raleigh Lightweight.

Once again, we have chosen to use Reynolds seamless butted Manganese Molybdenum 531 tubing, this time in oversized All Terrain gauges, for the main frame tubes. Combining lightness with strength, this superior tube is carefully brazed into a fully-lugged frame structure to exploit the best properties of the material and ensure maximum joint integrity.

In addition, both Avanti and Appalachian are fitted with Reynolds 531 All Terrain fork blades, brazed into a precision cast "Uncrowned" style fork crown. The Avanti also has 531 taper gauge chainstays and seatstays to complete its impressive frame spec.

Two geometries are used, that of the Avanti being particularly suited to fast off-road use, whilst the more easy-riding design of the Chinook, Ozark and Appalachian are equally at home on or off-road.

Both designs feature Lightweight's "variable" frame geometry, providing better rider fit than simple parallel designs, and the new shorter styled chainstays ensure improved rear triangle rigidity. Rear dropouts are forged twin eye vertical type for ease of wheel replacement and accurate positioning.

Lightweight Mountain Bikes are all fitted with the superb Shimano S05 indexed gear system, guaranteeing accurate gear changing under all conditions.

The Chinook, with its Engey Trail set, has 18 gears, while the other three models feature the new 21 speed Hyperglide system with improved shifting under torque.
AVANTI

Designed to deliver — the all new '89 Avanti — full Reynolds 531 All Terrain tubeset — 531 Unicrown fork
Shimano Deore XT II groupset — 21 speed Hyperglide SIS gears — Biopace HP rings — welded pulley stem with Cr-Mo swaged bar — high grade leather covered anatomic saddle with loop springs — QR wheels with 2" off-road tyres and stainless spokes — cantilever/cantilever brakes with 2-finger SLR levers.
Finish — Black Adder.
Size — 49, 53, 57 cms.

SIS biopace

WHEELS
Hand-built wheels with hollow section anodized alloy eyeleted rims, stainless spokes and quick-release front and rear hubs, are fitted on Otuka, Appalachia and Avanti. Cassette type rear freehub, with wider bearing spacing and reduced fishing, offer longer durability. These models are fitted with 2" knobbly off-road tyres, while the Chinook has a 1.50" tyre with raised centre-all for lower rolling resistance, and smoother riding on-road.

CHAINRINGS
The high strength corrosion alloy chainset on our Mountain Bikes all incorporate Biopace chainrings.
The Biopace cassette closely matches the natural movement of the leg for more efficient use of muscle power, with the result that pedalling feels easier, strain on the knees is reduced, and hills are easier to climb.

HANDLEBAR
The control centre of the bike; neatly grouped gearshift levers, fully adjustable for position and switchable between SIS and standard shifting, SBR brake levers, fully adjustable, with the latest two finger design on Deore II and Deore XT II equipment; flat 25mm bend handlebar, swaged for maximum strength in high stress areas (Cr-Mo on Avanti); chunky rubber handlebar grips.

BEARINGS
All bearings feature additional seals to minimise ingress of water and dirt, and hence prolong bearing life. However no bike is indestructible, and regular maintenance of all components will pay dividends in terms of longer life and trouble-free running, particularly for those bikes regularly subject to the rigours of off-road use.
CHINOOK

On road — off road, this spec. is great value. Reynolds 531 All Terrain butted main frame tubes — Shimano Exage M350 groupset — 18 speed — SIS indexed rear gear — Biopace chainrings — cantilever front, U-brake rear — adjustable brake lever reach — straight swaged bar — anodised rims — 1.75” dual pressure tyres — “Loose Proof” head set.

Finish — Purple Haze.
Sizes — 49, 53, 57 cms.
Classic touring frame with quality component package — full Reynolds 531 ST tubeset (frame, forks and stays) — touring geometry frameset — Shimano 18 speed SIS gearing — alloy Biopace triple chainrings — cantilever brakes — Shimano 105 quick release alloy hubs — stainless spokes and anodised rims — alloy 4-point rear carrier plus lo-rider fork braze-ons — 700 x 28C tyres with reflective side stripe — anatomic leather covered saddle with coil springs for improved rider comfort.

Colour — Classic Black.
Sizes — 54, 57, 60, 64 cms.
RANDONNEUR

The ultimate production touring bike —
Reynolds 531 ST tubset — Shimano
Deore 18 speed transmission with SIS
indexed gears and Biopace chainrings —
rear Blackburn and front lo-rider alloy
 carriers — Brooks Pro full natural leather
saddle — Maillard sealed bearing CX600
hubs — Mavic M3CD hard anodised rims
— stainless spokes, single butted 13/14
gauge rear — Michelin Select 700 x 28C
reflective tyres.
Colour — Dark Gunmetal.
Sizes — 54, 57, 60, 64 cms.

TOURISTE

Budget tourer with full feature
specification — 531 butted main tubes
touring geometry frame — 18 speed
Shimano Exage SIS indexed derailleur
— Biopace triple chainring — cantilever
brakes — alloy 4-point fitting carrier —
high strength ABS mudguards —
Randonneur styled engraved alloy bar —
anatomic saddle — micro adjust seat pillar
— reflective 700 x 28C high grip tyres —
two smaller frame sizes feature STT
geometry to suit smaller male and lady
riders.
Colour — Magnum Grey.
Sizes — 51, 54, 57, 60, 64 cms.
TOURING BIKES

Raleigh Lightweight — prestige products designed and built by the Raleigh Special Products Division, source of world championship winning bicycles and centre for advanced product development.

Raleigh Lightweight, dedicated to
- no compromise design
- handcrafted finish
- custom styling
- quality component selection
- ultimate product performance

### RANDONNEUR
- FRAME: Full 531 ST tube set, touring geometry, Shimano forged vertical drop outs
- FORK: Fused crown, 531 blades
- HEADSET: Shimano Deore
- WHEELS: Rims — Mavic M330, high anodised Hub — Mavic 660CX, sealed, QR Spokes — Stainless 14 gauge, front, 14/14 single butted rear
- TYRES: Michelin Select 700 x 23C reflective
- HANDLEBAR: Alloy engravged randonneur, suede finish cushion tape
- STEM: Sakae forged alloy
- BRAKES: Shimano SLR cantilever, Shimano hooded levers
- DERAILLEUR: Shimano Deore 3SIS indexed
- CHAINSET: Shimano Deore Biopace HP 48/38/28
- FREEWHEEL: 6 speed Shimano 14-28T
- PEDALS: Shimano PRT-100 dual format, alloy
- SADDLE: Brooks Professional leather
- SEAT PIN: Sakae CTP-5 alloy micro adjust
- OTHER: Full mudguards, front low rider carrier, rear Jim Blackburn 4-point fixing alloy carrier, toe clips and straps, twin bottle, inflator, spare spokes.
- WEIGHT: 13.4 kgs.

### ROYAL
- FRAME: Full 531 ST tube set, touring geometry, vertical drop outs
- FORK: Sloping crown, 531 blades
- HEADSET: Tango
- WHEELS: Rims — Alexa hollow section, anodised Hub — Shimano 105 QR Spokes — Stainless 14 gauge, front, 14/14 single butted rear
- TYRES: 700 x 23C reflective
- HANDLEBAR: Alloy engravged randonneur, cushion tape
- STEM: Sakae custom light alloy
- BRAKES: Alloy cantilever, Weinmann levers
- DERAILLEUR: Shimano 3SIS indexed
- CHAINSET: Shimano Biopace 48/36/28
- FREEWHEEL: Cassette 6 speed 14-28T
- PEDALS: MKS AR-3 touring, alloy
- SADDLE: Rea Form, leather covered
- SEAT PIN: SR alloy, micro adjust
- OTHER: Full mudguards, alloy rear carrier, toe clips and straps, inflator
- WEIGHT: 13.2 kgs.

### TOURISTE
- FRAME: 3 tubes 531 butted, touring geometry, 51 and 54 cm sizes feature top tube frame design
- FORK: Sloping crown, high tensile blades
- HEADSET: Tango Unique X "Loose-Proof"
- WHEELS: Rims — Alexa alloy, hollow section Hub — Shimano QR front Spokes — Stainless 14 gauge Tyres — Skirrid CST dual pressure 70 x 1.75
- HANDLEBAR: Alloy engravged randonneur, cushion tape
- STEM: Sakae custom light alloy
- BRAKES: Alloy cantilever, Weinmann levers
- DERAILLEUR: Shimano M350 SIS
- CHAINSET: Shimano Deore Biopace 48/36/28
- FREEWHEEL: Cassette 6 speed 14-28T
- PEDALS: MKS AR-3 touring, alloy
- SADDLE: Anatomic
- SEAT PIN: SR alloy, micro adjust
- OTHER: Full mudguards, alloy rear carrier, toe clips and straps, inflator
- WEIGHT: 13.5 kgs.

### CHINOOK
- FRAME: MTB geometry, 531 butted main tubes
- FORK: Unknown M6 welded
- HEADSET: Tango Unique “Loose-Proof”
- WHEELS: Rims — Alexa alloy, anodised Hub — Shimano M650 QR Spokes — Stainless 14 gauge Tyres — Skirrid CST dual pressure 75 x 1.75
- HANDLEBAR: Mountain straight, swaged form, Rubber grips
- STEM: 51 alloy
- BRAKES: Shimano M650 cantilever front, M450 V brake rear
- DERAILLEUR: Shimano M350 SIS
- CHAINSET: Shimano Biopace 48/36/28
- FREEWHEEL: Cassette 6 speed 14-28T
- PEDALS: Black resin
- SADDLE: Anatomic
- SEAT PIN: SR alloy, micro adjust
- OTHER: Full mudguards, alloy rear carrier, toe clips and straps, inflator
- WEIGHT: 13.9 kgs.

### GEMINI
- FRAME: 3 tubes 531 butted, touring geometry
- FORK: Sloping crown, high tensile blades
- HEADSET: Tango Unique “Loose-Proof”
- WHEELS: Rims — hollow section alloy Hub — alloy, QR front Spokes — Stainless 14 gauge Tyres — 700 x 23C reflective
- HANDLEBAR: Semi raised
- STEM: Sakae alloy
- BRAKES: Cantilever, alloy levers
- DERAILLEUR: Indexed shift, handlebar control
- CHAINSET: Alloy cassettes 48 teeth with disc
- FREEWHEEL: Cassette 6 speed 14-28T
- PEDALS: Black resin
- SADDLE: Anatomic
- SEAT PIN: Sakae alloy, micro adjust
- OTHER: Full mudguards, alloy rear carrier, toe clips and straps, inflator
- WEIGHT: 12.9 kgs.

### GEMINI 6
- FRAME: 3 tubes 531 butted, touring geometry
- FORK: Sloping crown, high tensile blades
- HEADSET: Tango Unique “Loose-Proof”
- WHEELS: Rims — hollow section alloy Hub — Shimano 105 QR front Spokes — Stainless 14 gauge Tyres — 700 x 23C reflective
- HANDLEBAR: Semi raised
- STEM: Sakae alloy
- BRAKES: Cantilever, with combined brake and gear levers
- DERAILLEUR: Exage M350 indexed, handlebar control
- CHAINSET: Exage M350 48/36/28 Biopace
- FREEWHEEL: Cassette 6 speed 14-28T
- PEDALS: Exage M350
- SADDLE: Anatomic
- SEAT PIN: Sakae alloy, micro adjust
- OTHER: Full mudguards, alloy rear carrier, toe clips and straps, inflator
- WEIGHT: 13.8 kgs.

### GEMINI 18
- FRAME: 3 tubes 531 butted, touring geometry
- FORK: Sloping crown, high tensile blades
- HEADSET: Tango Unique “Loose-Proof”
- WHEELS: Rims — hollow section alloy Hub — Shimano 105 QR front Spokes — Stainless 14 gauge Tyres — 700 x 23C reflective
- HANDLEBAR: Semi raised
- STEM: Sakae alloy
- BRAKES: Cantilever, with combined brake and gear levers
- DERAILLEUR: Exage M350 indexed, handlebar control
- CHAINSET: Exage M350 48/36/28 Biopace
- FREEWHEEL: Cassette 6 speed 14-28T
- PEDALS: Exage M350
- SADDLE: Anatomic
- SEAT PIN: Sakae alloy, micro adjust
- OTHER: Full mudguards, alloy rear carrier, toe clips and straps, inflator
- WEIGHT: 13.8 kgs.
City bike styling with Lightweight performance. Reynolds 531 butted main tubes frame — Shimano SIS indexed gearchange — powerful cantilever brakes — high strength hollow section alloy rims — 1.375 all weather tyres with safety reflective side stripe — full guards and alloy rear carrier.

Colour — Aquamarine highlight on White.

Sizes — Gents 54, 57, 60, 64 cms.
Ladies 48, 52, 56 cms.

ATB equipment, CTB comfort. Reynolds 531 butted main tubes frame — Shimano indexed gears — 18 speed — Bipace chainrings — Q/R front wheel — cantilever brakes — alloy hollow section rims — 1.375 all weather tyres with reflective side stripe — full guards and rear carrier.

Colour — Charcoal highlight on White.

Sizes — Gents 54, 57, 60 cms. Ladies 48, 52, 56 cms.

This catalogue is one of a set available from your Raleigh dealer.

All the bicycles shown in this catalogue are available from your RAILEIGH DEALER —

BAKERS CYCLES
RINGWOOD 473156
Sales Spares Repairs