





TRIATHALON CLASSIC

Frame Material Revnolds 531

10" 21" 22" 25"

Competition

Tubor

515

Sealed

700 x 23c

Anndized

Allez

Allov

Sakae

23 lbs

G.B. Avanti

Red and Black

Double Butted

Reynolds 531

Forged Dropouts

Sloping Crown

Allez Headest

Sedis Sport

Shimano 600 FX

Shimano 600 FX 52

x 42 Biopace Ring

Shimano 600 EX

Panaracer Vertex

Rigida Score Hard

Shimano 600 FX

Shimano 600 FX

Ital Manubri Fluted

(Aero Levers)

Eramo Sizos

Forks

Headest

Chain

Pedals

Tires

Rims

Hubs

Saddle

Stem

Color

Weight

Seat Pillar

Handle Bar

Brake Set

Crankset

Derailleurs

Frame Angles



19" 21" 23" 25"

Double Butted

Allez Headset

Sedis Sport

Cromallov Sloping

Shimano 105 5 L.S.

Shimano 105 52 x

42 Biopace Ring

Panaracer Vertex

Rigida Anodized

Response (Aero

Shimano 105

G.B. Avanti

Shimano 105 Linear

Ital Manubri Fluted

Black and Yellow

Shimano 105

700 x 23c

(Black)

Levers)

Allez

Alloy

Sakae

23.5 lbs

730

Tubes

Crown

Frame Material Reynolds 501

HORNET

Frame Sizes

Forks

Headset

Chain

Pedals

Tires

Rims

Hubs

Saddle

Stem

Color

Weight

Seat Pillar

Handle Bar

Brake Set

Derailleurs

Crankset

Frame Angles



BILIFSTREAK

Frame Sizes

Forks

Headset

Chain

Pedals

Tires

Rims

Hubs

Saddle

Stem

Color

Weight

Seat Pillar

Handle Bar

Brake Set

Crankent

Derailleurs

Frame Angles



21 5"/20" 22 5"/21"

23.5"/22"

Reynolds 531

Reynolds 531

Allez Headset

Sedis Traveller

Triple Allov/Allov

Lyotard 460D clips

Dia Compe Arai RX

Ital Manubri Fluted

18 speed

and straps

Worthy H.P.

Suzue 48 H

G.B. Avanti

Allez Anatomic

Rigida

Drum

Alloy

Alloy

Pink

Forged Dropouts

Sun Tour Cyclone II

Double Butted Tubos

730

QUICKSILVE	R
Frame Sizes	,

10" 21" 22" 25" Frame Angles Frame Material Revnolds 531 Competition

Dura-Ace

Ring

Shimano Dura-Ace

Shimano Dura-Ace

53 x 42 Bionace

Shimano New

Dura-Ace Sealed

Wolber Tubulars

Shimano Dura-Ace

Shimano Dura-Ace

Shimano Dura-Ace

Shimano Dura-Ace

Red and White

G.B. Avanti

2151bs

Rigida SC 200

Tubular Hard

Anodised

OR

Allez

Double Butted Tubes Reynolds 531

Forks Forged Dropouts Sloping Crown Shimano Dura-Ace Headest Sealed

Derailleurs Chain

Cranksot

Pedals Tires Rims

Brake Set

Hubs

Saddle

Seat Pillar Handle Bar Stem Weight

Color

19" 21" 23" 25"

Double Butted

Allez Headset

Sedis Sport

Lyotard

700 x 23c

(Black)

Allez

Alloy

Sakae

24 lbs

Shimano 525

52 x 42 Bionace

Panaracer Vertex

Rigida Anodized

Shimano L 525

Maillard Normandy

Ital Manubri Fluted

Light Action

G.B. Avanti

Blue and Black

Shimanol 525

Cromallov Slopino Crown

730

Tubes

515

Frame Material Reynolds 501

GEMINI

Forks

Headset

Chain

Pedals

Tires

Rims

Hubs

Stem

Color

Saddle

Seat Pillar

Handle Bar

Brake Set

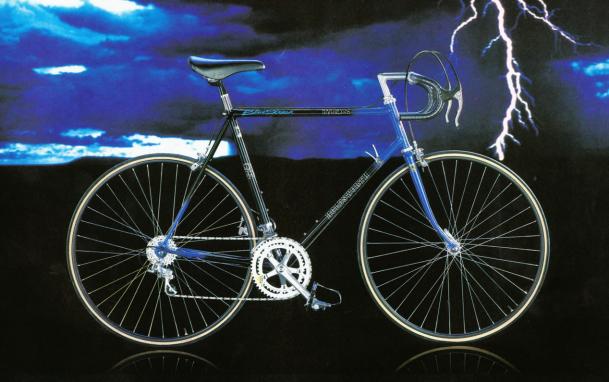
Crankset

Derailleurs

Frame Sizes

Frame Angles

Frame Material



BlueStreak

If you are getting serious about cycling and are in the market for a great looking bicycle, here it is — The Blue Streak.

The frame is made of lightweight Reynolds 501 tubing which retains its strength at the points that matter.

It features top quality components such as the Shimano light action 525 S.I.S. system, computer designed Biopace chain wheels which make pedalling easier through optimum use of leg power, Panaracer tires for smooth cornering and extra grip, quick release wheels, color co-ordinated black rims. It all adds up to outstanding value for a great looking bike.





HORNET

The Holdsworth Hornet heralds a new generation of cycling performance.

The frame is made from the renowned Reynolds 501 lightweight tubing.

The revolutionary Shimano 105 components signal the creation of a new class of bicycle.

The advanced new features include:

The Shimano Index System (S.I.S.) that provides light precise shifting with a foolproof "click stop" index mechanism.

Biopace chain wheels to make pedalling easier with greater efficiency.

The Shimano Linear Response (S.L.R.) brakes

provide better modulated braking control with a light lever feel.

All tried and tested Shimano components combined with Panaracer tires and anodised rims add up to a bicycle few can match in its class.

In competition - the Hornet has no competition.





TRIATHALON Glassic

The Classic is the ultimate triathlon bicycle for 1987. It features the handbuilt Reynolds 531 competition frame which is double butted manganese molybdenum tubing with a specification normally associated with far more expensive machines and

specifically designed for top performance in triathlon competition. It has a race proven Shimano 600 EX S.I.S. derailleur

and a Biopace to maximise pedal power.
Aerodynamic levers, anodised rims, Panaracer

tires, great efficiency combined with eye-catching fully co-ordinated colors, truly a classic bicycle for today's triathlete.





▶ QUICKSILVER▶>>>

The Quicksilver allows true competitors to win their to concentrate on racing. The Dura Ace brakes races and this is what great bicycles are all about. The Shimano Dura Ace group set offers a state of the art components system that helps racers reach their ultimate goal ... winning. The Advanced S.I.S. system ensures no more missed shifts, no more fine tuning and less time spent shifting, leaving you free

inspire confidence with a positive feeling of control and ease of operation - the response is so smooth, you'll think that they are power assisted.

The pedals offer a winning design and give more cornering clearance and pedal load-handling

capability. The wheel rims are Rigida with tubular tires. The frame is constructed from Revnolds 531 competition tubing which gives quick and responsive handling when you need it ... racing. All things considered, you are riding a winner with the Holdsworth Ouicksilver.







Maybe you've always wanted a high quality tandem, but have found the price of custom made models too high.

Holdsworthy now offer you the opportunity to share your cycling experience with the Gemini English Touring Tandem. The rigid design of the frame, hand built from Reynolds 531 frame tubing combined with the extra rigid 48 spoke wheels results in a very lively and responsive machine which really stands out in a crowd. The pink Gemini features Suntour cyclone gears ideal for touring as they make light work of hill climbing, and extra safe rear wheel disc brake for efficient stopping.

Altogether a great handbuilt tandem at the right price.





BRAZING THE FORKS

FOR SIXTY YEARS. THE HOLDSWORTHY COMPANY HAS BUILT UP A FULLY JUSTIFIED REPUTATION FOR PERFECTION IN DESIGN AND MANUFACTURE OF BICYCLES USING TRADITIONAL METHODS OF BRITISH HAND WORKMANSHIP EMPLOYING SKILLS HANDED DOWN THROUGH GENERATIONS, OUR CRAFTSMEN HAND BUILD THE FRAMES WHICH ARE THE VERY ESSENCE OF A HOLDSWORTH BICYCLE



GREAT CARE AND ATTENTION TO DETAIL IS REQUIRED TO ASSEMBLE

THE FAMOUS REYNOLDS 531 OR 501 TUBING, EACH TUBE IS

FULLY MITRED FOR A PERFECT FIT AND THEN SKILFULLY HANDBRAZED BY THE FRAME-BUILDERS WHO HAVE THE EXPERTISE TO GAUGE THE EXACT TEMPERATURE AT WHICH TO BRAZE THUS GIVING THE MAXIMUM STRENGTH AT THE MAXIMUM STRESS - THE LUG POINT.

THE FRAME IS SHOTBLASTED, PHOSPHATED. BONDLERISED AGAINST RUST, HAND FETTLED. ALIGNED AND FINISHED. THEN PRE-PAINT INSPECTED BEFORE BEING EXPERTLY HAND

SPRAYED IN ONE OF OUR EXCITING NEW COLOR SCHEMES AND STOVE ENAMELLED IN ONE OF THE MOST MODERN PAINT PLANTS IN BRITAIN.

BEFORE FINAL ASSEMBLY. THE DECALS ARE ACCURATELY APPLIED BY HAND TO ENSURE JUST THE RIGHT LOOK AND THEN THE FRAME IS LACOUERED TO GIVE THE FINISH WHICH IS ADMIRED WHEREVER BICYCLES ARE RIDDEN. IT IS DUE TO THIS LABORIOUS CARE AND ATTENTION THAT HOLDSWORTH BICYCLES HAVE AN ENVIABLE REPUTATION FOR LONG LIFE AND RELIABILITY.

BRAZING THE FRAME



HANDFINISHING THE FRAME

AS WELL AS PRIDING OURSELVES IN OUR HAND BUILT METHODS OF MANUFACTURE - ROBOTS HAVE NO PLACE AT HOLDSWORTHY WE EMPLOY A RIGOROUS PROGRAM OF QUALITY CONTROL, AT EVERY STAGE OF THE PRODUCTION. THE BICYCLE IS TESTED TO CHECK THAT IT IS UP TO OUR HIGHEST STANDARDS.



FRAME CONSTRUCTION FRAME ALIGNMENT HAND PAINTING AND FINAL ASSEMBLY ARE ALL CHECKED BY OUR HIGHLY TRAINED AND CONSCIENTIOUS TEAM OF QUALITY CONTROLLERS.

IT IS THIS CARE, DEDICATION AND PRIDE IN OUR WORKMANSHIP THAT HAS RESULTED IN A UNIOUE WINNING FORMULA IN BRITISH ROAD RACING - SIX GOLD MEDAL WINNING CHAMPIONSHIPS IN TEN YEARS.

BECAUSE WE CARE ABOUT OUR BICYCLES, WE ALSO CARE ABOUT WHO SELLS THEM, WE CAREFULLY SELECT THE STORES THAT SELL THEM, ONLY CHOOSING DEALERS WHO HAVE THE

CORRECT EXPERIENCE, ABILITY TO SERVICE AND EXPERT KNOWLEDGE.

YOU CAN BE SURE THAT WHEN YOU BUY ONE OF OUR BICYCLES, YOU ARE BUYING THE BEST THAT MAN CAN MAKE - A BIKE TO GIVE YOU YEARS OF USE AND RIDING PLEASURE.



HAND SPRAYING



SETTING THE WHEFI S

As you have seen, we take great care in the manufacture of our bicycles, and because of this we only use the finest cycle tubes in the world.

Since 1898 when Alfred Milward Reynolds produced his first butted tube set, the name Reynolds has stood for quality and superb performance throughout the cycling world. No less than 25 winners of the much esteemed Tour de France have ridden to victory on Reynolds frames, and numerous top professional and amateur cyclists, in road racing, track racing, cyclocross pursuit or light weight touring have found that Reynolds tubes give them precision manufacture, and feather light weight with real strength.

The most important part of a bicycle is the frame. If it is too rigid, you will find that your body aches, with you fighting every bend and hill climb. If it is too springy, all your strenuous pedal power will be absorbed with less forward motion benefit.

Reynolds tubes are butted together in a process which enables us to build a stronger, lighter frame.

A shaped 'mandrel' is placed inside the tube and is then passed through a 'die'. The exterior of the tube is pressed onto the mandrel forcing the interior wall of the tube to take on the shape of the mandrel while leaving the outside shape of the butted part of the tube basically unaltered – apart from a reduced diameter and a locally increased internal wall thickness at the tube ends.

The increased wall thickness of the butted end means that the strength is where the most stress is. By accurate hand brazing we achieve a frame which is stronger at the joints leaving the center part of the tube thinner to optimise on weight saving.

This diagram shows how the wall thickness varies between the middle of the tube and its butted ends

DOUBLE BUTTED

Taper	-	Parallel	_	Taper	Butt	
				_		
		•				

SINGLE BUTTED

Parallel	Taper	Butt
		The second secon

Even the smoothest road can cause problems if a frame's front forks are too rigid. Not only is the ride uncomfortable but so much energy-absorbing vibration is caused that mileages and speeds both suffer.

That's why front forks are curved to a carefully planned rake' which helps to give them resilience, and so smooth out the roughness of the road

Obviously the weakest point of a fork is the brazed joint in its crown, where it meets the frame. The joint must be rigid, which means using a tube with a thick enough wall to provide the necessary strength.

A problem arises, however, when the fork is tapered away from the crown. As the diameter of the tube decreases, so the thickness of the tube wall (the 'gauge') increases. And that leaves you with a typical fork blade, where the top is thick enough to give rigidity, but the bottom is much thicker, killing the fork's resilience and partly defeating the effect of the rake.

The Reynolds solution is taper-gauge fork blades.

At Holdsworthy we take a single-butted tube and use the butted end at the fork crown. Then we taper the tube. So even though the tapering process does increase the thickness of the tube wall towards the drop out end, it never becomes thicker than it is at the Butt. (See diagram).

That's why Reynolds forks are strong and rigid at the crown, but still give you all the resilience you need.





BUTTED FRAME TUBES

REYNOLDS 531 COMPETITION

- Manganese molybdenum alloy frame
- tubes with 802/Nmm² tensile strength. ■ 15% stronger 'after brazing' than
- Double Butted main tubes for strength and lightness
- Lighter gauge tubes for increased racing
- performance (0.81/0.55/0.81mm). ■ Manganese malybdenum seat and chain



REYNOLDS 501 CROMALLOY-M ■ Specially manufactured Cromallov-M

- steel frame tubes with 802 N/mm2 (52 tons) tensile strenath ■ Double butted main frame tubes for
- strength and lightness.
- Lightweight gauge, precision gauge (0.91/0.61/0.91mm) for competitive performance.
- 'Wide Oval' style fork blades
- Specially manufactured Cromallov-M seat and chain stays.
- Standard taper seat stays and
- round-oval-round chain stays.

The latest Reynolds tandem frame introduced in 1983 features the double lateral stay configuration in line with modern design philosophy. Reynolds 531 provides tortional strength with responsiveness and resilience together with



- Manganese molybdenum allov frame tubes with 802 N/mm² tensile strength.
- 15% stronger 'after brazing' than competitive materials
- Reynolds 531 Taper gauge fork blades for strength and resilience.
- Manganese molybdenum seat and chain
- Standard taper seat stays and round-oval-round chain stays.

665HIMANO

It is crucial to have the right components, and we have chosen to use Shimano for our range of sports and racing bicycles. Shimano have pioneered new technology to make great advances in bicycle componentry.

The Shirmano Index System has made shifting of the derailleur bicycle faster and easier than ever before. The S.I.S. utilizes an index shift lever that is synchronized with rear derailleur movement. You shift each gear into perfect alignment with a positive "click" that you can hear and feel at the lever. The result is fast, positive adjustment free shifting.

Racers whose goal is to win races will find the Dura Ace S.I.S. on the "Quicksliver" gives them more time to concentrate on pure racing and not shifting. Triathletes will find the 600 EX S.I.S. on the "Triathalon Classic" or 105 S.I.S. on the 'Hornet' gives fast precise shifting which does not detract from rider concentration, and difficult searching for gears is now eliminated.

Enthusiast riders will find uphill shifting much easier with the L. 525 S.I.S. on the 'Blue Streak' which means less shifting effort and safer riding.

We believe that S.I.S. allows all cyclists to ride with more enjoyment and confidence, knowing that the next gear is only a "click" away.



Shimano applied computer analysis to the biomechanics of human pedalling and discovered the ideal chainring shape for greatly rationalized use of the legs muscle power and improved pedalling efficiency. Biopace was developed to realize more efficient power transfer from the riders legs to the rear wheel.

The chain wheels' shape has been computer designed to help vary the speed of crank rotation and eliminate the 'dead spot' at the bottom of the crank. Now pedailing action more closely resembles human leg movement when walking or running.

Each of our sports bicycles has a Biopace to offer more benefits to riders: lighter, more rhythmical pedalling, more efficient use of power and reduced knee strain, better circulation because leg extension is quicker and muscle contraction less severe. We believe that Biopace gives that extra edge to take hills and headwinds in your stride whilst all the time you are pedalling more efficiently.

It is our belief at Holdsworthy, that Shimano components on a Reynolds frame offer all riders the perfect balance of efficiency and reliability. Here is the opportunity to possess a bicycle with history, tradition, Reynolds tubes and modern Shimano components.

Up until now, this has been a hard package to find. We invite you to ride a Holdsworth and feel the difference.



OUICKSILVER · TRIATHALON CLASSIC · HORNET · BLUE STREAK









HOLDSWORTHY LIFETIME WARRANTY

Holdsworthy warrants the replacement of any original part due to defect in material and or workmanship of this Holdsworth bicycle. This warranty shall continue in full force and effect for the duration of the original ownership following the date of purchase. Such purchase to be documented by original sales silio or other proof of furchase by such owner.

Holdsworthy will replace without charge any original part that is determined by Holdsworthy to be defective under the terms of this warranty. However, transportation and dealer labor charges are not covered hereunder. Claims under this warranty must be made through an authorized Holdsworth bicycle dealer who must also install the replacement part.

Failure due to accident, abuse, neglect, normal wear, improper assembly, improper fit, maintenance by other than an authorized Holdsworth dealer or use of parts inconsistent with the use originally intended for the bicycle as sold, are not covered by this warranty.

There are no other warranties or guarantees expressed or implied made by Holdsworthy on this bicycle.

The sole and exclusive liability of Holdsworthy and or any of its authorized dealers, affiliates or agents pursuant to this warranty shall be for the repair or replacement of the defective part; incidental or consequential damages are expressly excluded hereunder. NOTICE: The user assumes the risk of any normal injuries, damage to or failure of the bicycle and any other losses if Holdsworth bicycles are used in any competitive event, including bicycle racing, dirt biking or similar activities or training for such competitive activities or events.

This bicycle is not manufactured, marketed, designed or intended to be altered for use at any time in stunt riding or similar activity nor is it intended to be used with motors or any power driven apparatus. Holdsworthy, its authorized, affiliates or agents shall not be liable under this warranty nor under any state or federal law or the common law or other wise for any damage or failure, including personal injury, resulting from such use and/or alteration. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

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