

# UNIVEGA



# How to choose the perfect bicycle.

A bicycle is the most versatile machine on wheels.

It can provide you with exhilarating exercise of the kind most often recommended by heart specialists for cardio-vascular benefit.

And it can let you enjoy a unique, first-hand view of the world around you as you tour through it.

It's one of the most economical and ecologically responsible ways to commute.

And as serious sport, it can be ridden in Olympic competition.

A bicycle is something you can enjoy from the time you're a toddler, until you're a senior citizen.

But the secret to getting the most enjoyment and value from a bicycle is to select one that really fits your needs.

## What makes a better bicycle?

Before you can make an intelligent decision about the right bicycle for your needs, you have to understand the basic differences among the tremendous variety of brands and models available. And to do that, you should know something about how bicycles are made. What we'd like to do here is explain the basics. If you're interested in more technical details, consult the specification sections. Or ask your dealer.

## What bicycle manufacturers really manufacture.

Bicycle manufacturers don't make most of the components that go into their products. They purchase the tubing for the frames, and parts such as seats, handlebars, hubs, brakes and drivetrains, etc., from companies that specialize

in these products.

Essentially, a manufacturer's job is to design the bicycle, braze or weld the frame together, finish and paint it, then attach the components.

So the real art of bicycle manufacturing is in designing and building the frame, and in selecting the right components to create a bicycle that offers maximum performance, beauty and value.

## It all starts with the frame.

The frame is the skeleton of the bicycle. It is what holds all the other components together, and is responsible for performance and comfort.

The frame must be strong enough to maintain perfect alignment under stress, yet be light and resilient enough to be quick and responsive.

## The different kinds of tubing used in frames.

The kind of tubing used in the frame greatly affects the weight, strength, performance and price of a bicycle.

Essentially, there are five categories of bicycle tubing.

First, there's regular steel tubing. It is commonly used in children's bicycles, where price is more important than light weight.

Next, there's lightweight steel tubing, which is more expensive, but weighs less than regular steel tubing.

Then, there's high tension steel, which is lighter still, and is used in many popularly-priced lightweight bicycles.

The strongest, lightest tubing is made from chromoly or similar alloyed steel. Chromoly tubes are available in two basic forms: straight gauge and double-butted.

A straight gauge tube has the same wall thickness throughout. But a double-butted tube is one where the walls are the strongest at the two ends where it must withstand the greatest stress. The walls are thinner in the middle of the tube to reduce weight.

Double-butted chromoly or similar tubing is the best and most expensive used on bicycles.

## Hand brazing versus machine brazing.

The way the frame's tubing is joined together and finished greatly determines the overall performance and appearance of a bicycle.

The two best ways of connecting tubes are with lugs or by heli-arc welding.

The most popular method in better lightweight bicycles is to use lugs, which are fittings that go around the ends of the tubes being connected, and then brazed together.

An equally good method is to heli-arc weld the ends of the tubes together directly. This method requires more labor to finish properly when double-butted tubing is used, so it's by far, the most expensive to do right.

In both processes, the temperature used is critical. Too little heat can result in an incomplete braze, while too much heat can make the tubing brittle and more prone to failure.

So a frame that's brazed or welded by hand is subject to greater variations and irregularities in temperature and technique.

A more precise method involves high technology in which computer-controlled equipment does the welding at precisely the right temperature to ensure a strong, clean joint.

### Deflating the myth of the "hand-built" bicycle

Some companies advertise their bicycles as being "hand-built."

The term sound good, but what does it really mean?

We've already explained why a computer-controlled machine can braze more consistently and precisely than an individual.

We've also explained that most of the components are purchased from specialized companies, not "hand-built" by the bicycle manufacturer.

In fact, the only "hand" work on a bicycle is what must be done on every lightweight bicycle; mainly, hand filing the joints before painting the frame, then attaching the components by hand to the finished frame.

### Categories of bicycles by use.

Since bicycles are so versatile, you can use most of the lightweights for a variety of purposes. But many are designed to maximize certain qualities over others, depending upon the predominant use. So before you decide on a bicycle, let's look at the basic categories:

**Pro-Racing Bicycles** are those designed for world-class competition, or for those who demand the finest. These bicycles are very light, very strong and very expensive. But you can ride them in everything from the Tour de France to a tour of the neighborhood and experience breath-taking performance.

**High Performance Bicycles** are very light, very fast machines built on a short wheel base for maximum acceleration and resiliency. They are favored by triathletes, and anyone who wants

to ride hard and fast.

**Sport Touring Bicycles** are the most popular all-around category. These bicycles are designed for enthusiasts who demand high levels of quality and performance at affordable prices.

**Grand Touring Bicycles** are designed to provide the optimum performance for long distance touring. The frame geometry is designed for maximum stability and load carrying capability. They are also equipped with special brakes for stopping power under a full load. And they are geared for climbing long grades fully loaded, as well as for normal riding.

**Sport and Leisure Bicycles** are designed as enjoyable, all-around lightweight performers that are fun and affordable. The price and features can be selected according to your individual budget and needs.

**Commuter and Leisure Bicycles** are designed for the person who uses a bicycle for leisure or for daily transportation. The emphasis is on extreme reliability and practicality at a reasonable cost.

### Choosing a bicycle that's just your speed.

Now that you have a better understanding of the differences among bicycles, you should be able to determine the category that's best for you based on how you intend to use your bicycle, and how much you want to spend.

Once you've done this, you're ready to return to your dealer.

Tell your dealer the category of bicycle you're interested in, and ask to see the different brands and models that will fulfill your requirements.

Start by comparing overall appearance. Is the shape and form pleasing? After all, a bicycle

should be fun and exciting in all its aspects. And although a good looking bicycle doesn't necessarily perform better, good finishing and attention to detail are indicators of care and quality.

Next, find out what kind of tubing the frame is made from. Most bicycles should say so right on the frame.

Then check the components. Here you may need to rely on the knowledge of your dealer. So don't be afraid to ask questions. Try to be as specific as possible.

For example, let's say you're comparing models from two different manufacturers, who use different brands of components. If you simply ask your dealer which of the two brands of bicycles is better, you're asking for a generalized assessment. Your dealer can probably offer more accurate and informative answers to more specific questions, such as which of the two derailleurs or cranksets is better.

Finally, when you've gotten answers to all your questions and narrowed down your choices, ask for a test ride. After all, that's the ultimate test.

### Why we believe you'll select Univega.

You may have noticed that until now, we haven't even mentioned our name, or tried to sell you one of our bicycles.

The reason is simple.

We're convinced that the more you know about bicycles, and the better able you are to compare them intelligently, the more you'll appreciate what we have to offer. Like the latest in design. Precise craftsmanship and finish. A wide selection of models and components. And most of all, value.

## PRO-RACING BICYCLE

This bicycle is reminiscent of a formula one grand prix racer. It features the latest aerodynamic design with full Chromoly double butted frame and fork, heliarc-welded without lugs for the lowest possible coefficient of friction. Fitted with the latest technology in aerodynamic components for less wind resistance. The Aero is for the person who demands the very best in ultra light, ultra fast state-of-the-art design.

12 speeds — 20½ lbs.

Cardinal Red



# Superstrada

UNIVIEGA

## PRO-RACING BICYCLE

The Superstrada combines the most successful, race-proven contemporary design with futuristic detailing and components. This modern frame features Champion Chromoly double-butted tubing, specially designed direct seat stays, and Chromoly aerodynamic fork. It's fitted with Shimano Dura Ace AX aerodynamic components and tubular tires. Ride it in everything from the Tour de France to a tour of the neighborhood and experience breathtaking performance.

12 Speeds—21 lbs.

Gunmetal Gray



# Competizione

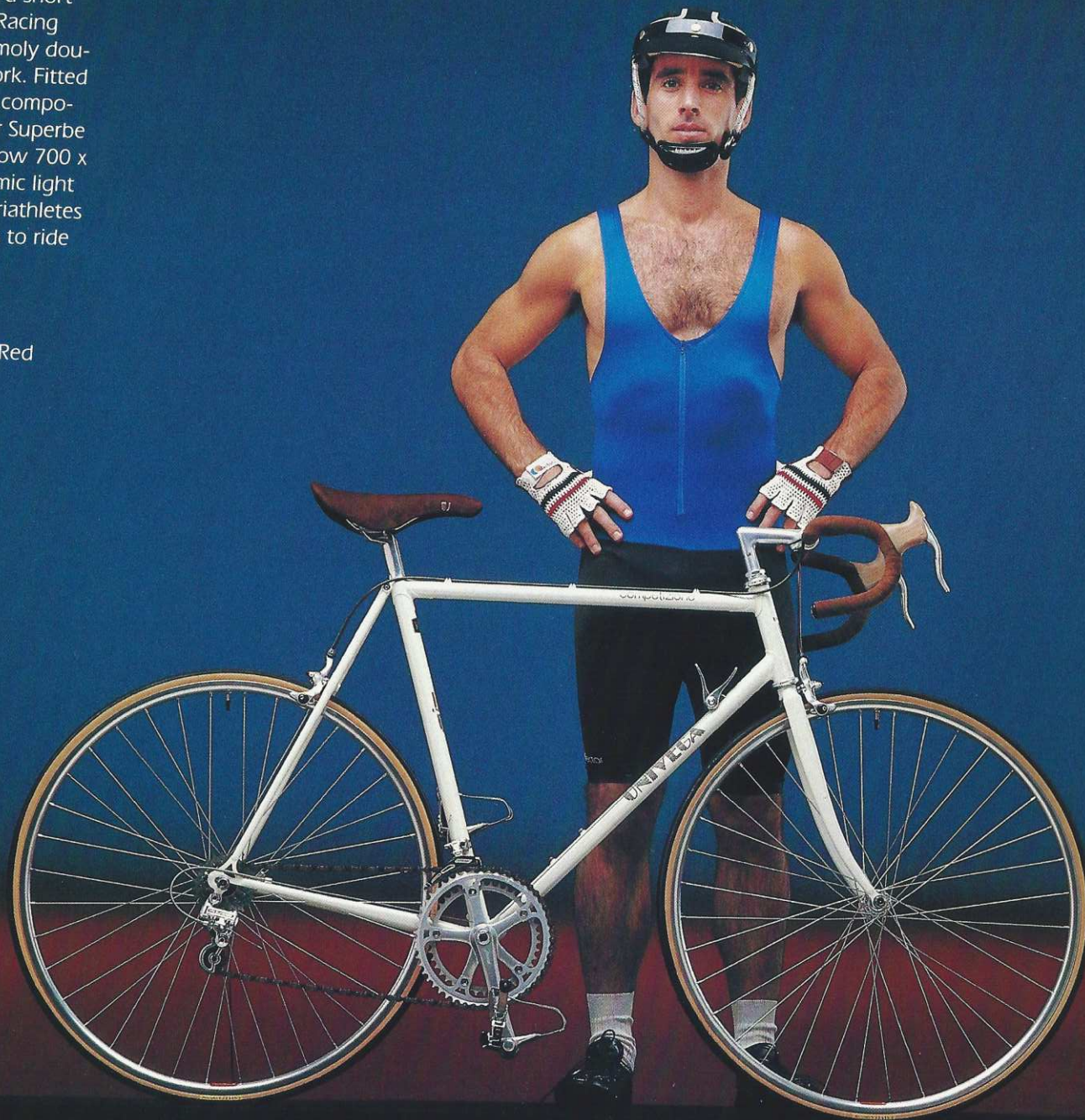
UNIVEGA

## HIGH PERFORMANCE BICYCLE

A fast machine built on a short wheel base as the Pro-Racing Superstrada with Chromoly double-butted frame and fork. Fitted with high performance components including Suntour Superbe Pro derailleurs and narrow 700 x 20 C tires on aerodynamic light alloy rims. Favored by triathletes and anyone who wants to ride hard and fast.

12 Speeds—22 lbs.

Pearl White or Cardinal Red



# Gran Premio

UNIVEGA

## HIGH PERFORMANCE BICYCLE

Built with lightweight Chromoly double-butted frame, Chromoly direct rear stays and aerodynamic teardrop style fork, Suntour Cyclone Mark II derailleurs and Suntour Sprint sealed bearing light alloy hubs. A perfect machine for high performance, long distance rides or exhilarating exercise.

12 Speeds—23 lbs.

Racing Blue or Brown Sand



# Gran Rally

UNIVEGA

## RALLY-SPORT BICYCLE

The Gran Rally captures contemporary Italian design at its very best. Built on short wheel base frame with Chromoly double-butted main tubes, Chromoly rear stays, Chromoly fork with Tange Champion lugs. It also features Shimano 600 EX derailleurs, crankset and brakes. Plus Suntour sealed bearing alloy hubs with Araya narrow alloy rims. Ideal for fast touring or high performance riding.

12 Speeds—23 lbs.

Burgundy or Silver Mist





# Sportour

UNIVEGA

## SPORT TOURING BICYCLE

The Sportour is a quick, sporty, agile machine. Italian designed frame with Chromoly double-butted main tubes, with Tange Champion lugs and Mangalight steel racing fork. Among its superb alloy components are the Sugino DGT cotterless crankset and Suntour ARX derailleurs with down tube top mount shifters. The Sportour also features Sunshine Gyro-Master alloy hubs and 700 x 20C high pressure (100 lbs.) tires on Araya narrow alloy rims. Definitely the most popular sport bicycle designed for the enthusiasts who demand a high level of quality and performance.

12 Speeds—24 lbs.

Racing Blue, Pearl White or Charcoal Black



## SPORT TOURING BICYCLE

This lively, nimble sport model is the most competitive bicycle in its class. A new frame with Chromoly double-butted main tubes with Mangalight steel-racing fork, and lightweight components such as the new Sakae CXC-300 light alloy crankset, and Suntour Black Line derailleurs with positive down tube top mount shifters. It also features an anatomic suede saddle by Sella Italia and narrow alloy rims with quick release alloy hubs.

12 Speeds—25 lbs.

Brown Sand, Silver Mist or Charcoal Black



# Technical Specifications—1984 UNIVEGA Models

MODEL:	AERO	SUPERSTRADA	COMPETIZIONE	GRAN PREMIO	GRAN RALLY	SPORTOUR	VIVA SPORT
<b>FRAME:</b>	Champion Chromoly double butted Aerodynamic tubing. Chromoly seat and chain stays. Rear brake and derailleur cables through frame. Brazed-on shifter, front derailleur, chain rest, and bottle boss.	Champion Chromoly double butted tubing. Chromoly chain stays and direct seat stays. Tange Champion lugs. Brazed-on cable guides, shifter, bottle boss, and chain rest.	Champion Chromoly double butted tubing. Chromoly chain stays and direct seat stays. Tange Champion lugs. Brazed-on cable guides, shifter, bottle boss, and chain rest.	Champion Chromoly double butted tubing. Tange Champion lugs. Direct seat stays. Suntour Superbe-Pro ends. Brazed-on cable guides, shifter, bottle cage boss, and chain rest.	Champion Chromoly double butted tubing. Tange Champion lugs. Spoon type seat stays. Brazed-on cable guides, shifter, bottle cage boss, and chain rest.	Chromoly double butted tubing. Tange Champion lugs, spoon type seat stays. Brazed-on cable guide, shifter, bottle cage boss, and chain rest.	Chromoly double butted tubing. Fully lugged. Spoon type seat stays. Brazed-on cable guides, shifter, bottle boss, and chain rest.
<b>FRAME SIZE:</b>	50, 52, 54, 56, 58 61cm.	50, 52, 54, 56, 58, 60, 62cm.	50, 52, 54, 56, 58, 60, 62cm.	50, 54, 57, 60, 63cm.	50, 54, 57, 60, 63cm.	47, 50, 54, 57, 60, 63cm.	Men's 19 1/2", 21", 23", 25", 27". Ladies 19 1/2" or 22" (Mixte Type).
<b>FRONT FORK:</b>	Chromoly Aerodynamic tear-drop style with forged ends and micro-fusion crown.	Chromoly Aerodynamic tear-drop style with forged ends.	Chromoly Aerodynamic tear-drop style with forged ends.	Chromoly Aerodynamic tear-drop style with forged ends.	Chromoly, racing type with C5 sloped crown, forged ends.	MANGALIGHT racing type with C5 sloped crown, forged ends.	MANGALIGHT racing type with C5 sloped crown, forged ends.
<b>HEADSET:</b>	TANGE AR-202DX, aero type.	SHIMANO Dura-Ace EX.	TANGE Levin alloy.	TANGE New Falcon alloy.	TANGE New Falcon.	TANGE NOVA.	TANGE MA-60.
<b>CRANKSET:</b>	SUGINO Aero Mighty, one piece forged light alloy, cotterless. 52 x 42 teeth double chainwheel.	SHIMANO Dura-Ace AX DD forged alloy cotterless. 52 x 42 teeth double chainwheel.	SAKAE AE-5LA Aerox one piece forged light alloy cotterless. 52 x 42 teeth double chainwheel.	SUGINO AS, Aero type, one piece forged alloy cotterless. 52 x 42 teeth double chainwheel.	SHIMANO new 600 EX one piece forged alloy cotterless. 52 x 42 teeth double chainwheel.	SUGINO DGT one piece forged alloy cotterless. 52 x 42 teeth double chainwheel.	SAKAE CXC-300 one piece forged alloy cotterless. 52 x 42 teeth double chainwheel.
<b>TIRES:</b>	UNIVEGA-230gr, Tubular.	UNIVEGA-270gr, tubular.	700 x 20C hi-pressure 100 lbs. skin side wall with butyl tubes, Presta valves.	700 x 20C hi-pressure 100 lbs. skin side wall with butyl tubes, Presta valve.	700 x 20C hi-pressure 100 lbs. skin side wall with butyl tubes, Presta valves.	700 x 20C hi-pressure 100 lbs. skin side wall with butyl tubes, presta valves.	27" x 1 1/8" hi-pressure 100 lbs. skin side wall.
<b>RIMS:</b>	ARAYA ADX-2 aero, alloy racing.	ARAYA ADX-2 Aerodynamic 21mm wide, Light alloy Racing.	ARAYA ADX-1W, 700 x 20C Aerodynamic light alloy.	ARAYA 20A 19.6mm 700C alloy, anodized finish.	ARAYA 20A 19.6mm 700C alloy, anodized finish.	ARAYA 20A 19.6mm 700C alloy anodized finish.	ARAYA Model 18. 27" x 1 1/4" light alloy.
<b>HUBS:</b>	SUNTOUR Superbe, light alloy small flange with quick release.	SHIMANO Dura-Ace AX, light alloy small flange with quick release.	SUNTOUR Superbe Pro double sealed, forged light alloy with quick release.	SUNTOUR Sprint sealed bearing forged light alloy with quick release.	SUNTOUR sealed bearing forged light alloy with quick release.	SUNSHINE Gyro-Master, forged alloy small flange with quick release.	SUNSHINE small flange light alloy with quick release.
<b>FREEWHEEL:</b>	SUNTOUR Ultra-7 silver, 13-20 teeth.	SHIMANO Dura-Ace Gold, 13-24 teeth, 6 speed.	SUNTOUR New Winner NW-6500 Silver, 13-23 teeth, 6 speed.	SUNTOUR Winner Ultra-6 Silver, 13-26 teeth with spoke protector.	SUNTOUR New Winner 13-28 teeth, 6 speed with spoke protector.	SUNTOUR PT-6000 14-28 teeth, 6 speed with spoke protector.	SUNTOUR PT-6000, 14-28 teeth, 6 speed with spoke protector.
<b>SPOKES:</b>	15G oval, stainless steel with brass nipples.	14G, stainless steel with brass nipples.	14G, stainless steel with brass nipples.	14G, stainless steel with brass nipples.	14G, c.p. with brass nipples.	14G, c.p. with brass nipples.	14G, c.p. with brass nipples.
<b>DERAILLEURS:</b>	SUNTOUR Superbe Pro, with down tube brazed-on top mount shifters.	SHIMANO Dura-Ace AX, with downtube brazed-on top mount shifters.	SUNTOUR Superbe Pro, with down tube brazed-on top mount shifters.	SUNTOUR Cyclone Mark II with brazed-on down tube top mount shifters.	SHIMANO new 600EX with brazed-on down tube top mount shifters.	SUNTOUR ARX Front, ARX-GT rear with brazed-on down tube top mount shifter.	SUNTOUR Black Line wide ratio with brazed-on down tube top mount shifters.
<b>HANDLEBAR:</b>	NITTO ADBX, aero type, NITTO Crystem-blue alloy stem.	NITTO 55F Racing, covered with hand stitched black leather.	NITTO 55F light alloy racing style with New Technomic stem.	SAKAE CTD-390L alloy racing style with Custom alloy stem.	SAKAE CTD-390L alloy racing style with Custom alloy stem.	SAKAE CTD-390L alloy racing style with Custom alloy stem.	SAKAE CTD-390L alloy racing style with Custom alloy stem.
<b>BRAKES:</b>	Aero Gran Compe AGC-300 side pull light alloy with AGC-250 levers.	SHIMANO Dura-Ace EX Racing.	Aero Gran Compe AGC-300 side pull light alloy with AGC-250 levers.	DIA-COMPE NGC-400, side pull light alloy with quick release, tire guides and NGC-200 levers.	SHIMANO new 600EX side pull with quick release and tire guides. New 600EX levers.	DIA-COMPE GX-400N, side pull alloy with quick release, tire guides, and hooded levers.	DIA-COMPE G-500 N, side pull alloy with quick release, tire guides and hooded levers.
<b>CHAIN:</b>	SUNTOUR Ultra-6 silver.	SHIMANO 600-UG Silver/Black.	SUNTOUR Ultra-6 silver.	SUNTOUR Ultra-6 Silver.	D.I.D. Lanner Silver.	SUNTOUR Z Black.	SUNTOUR Z Black.
<b>PEDALS:</b>	MKS Esquartz with toe clips and straps.	SHIMANO Dura-Ace AX DD with alloy toe clips and straps.	MKS Esquartz Aerodynamic one piece alloy, with toe clips and straps.	MKS Esquartz Aerodynamic one piece alloy with toe clips and straps.	MKS AR Road alloy with toe clips and straps.	MKS AR Road alloy.	MKS AR Road alloy.
<b>SADDLE:</b>	KASHIMAX model 4A Nu-Buck with SAKAE Aerox seat post.	SELLE ITALIA Turbo Racing with SUGINO SP-K Racing Seat Post.	SELLE ITALIA Turbo Racing with SUGINO SP-K Racing Seat Post.	SELLE ITALIA Turbo Racing with SUGINO SP-K Racing Seat Post.	SELLE ITALIA Anatomic Touring, Black Suede with SAKAE CT-P5B Fluted alloy seat post.	SELLE ITALIA Anatomic Touring Black Suede with SAKAE CT-P5B alloy seat post.	SELLE ITALIA Anatomic Touring Black Suede with SAKAE CT-P6B Fluted alloy seat post.

Most clothing shown is available through your UNIVEGA dealer.

Specifications are subject to change without notice.

# UNIVEGA

## Specialissima

### GRAND TOURING BICYCLE

This is the sophisticated long distance touring machine. Built on a long wheel base for greater comfort and stability even when fully loaded. The frame and fork are Chromoly double-butted tubing, fitted with Dia-Compe-MB cantilever brakes for sure stopping. Sugino TAT forged alloy triple crankset wide ratio, Suntour Superbe Tech-L sealed bearing derailleurs, Suntour Superbe-Pro sealed bearing alloy pedals, Suntour Sprint double sealed bearing alloy hubs, 27 x 1 1/4" tires on wide Araya alloy rims with 40-spoke rear wheel.

15 Speeds—25 lbs.

Burgundy or Racing Blue



# Gran Turismo

UNIVEGA

## GRAND TOURING BICYCLE

This is the perfect Grand Touring machine. Built on a long wheel base for greater comfort. The frame is Chromoly double-butted tubing and Mangalight Touring Fork. Fitted with such special GT components as Sugino TGT triple forged alloy crankset wide ratio and Dia-Compe cantilever brakes for quick stopping under heavy load. With Suntour Mountech-GTL derailleur and Suntour Sealed bearing alloy hubs, 27 x 1 1/4" tires on wide Araya alloy rims.

15 Speeds—26 lbs.

Gunmetal Gray or Brown Sand



# Viva Touring

UNIVEGA

## GRAND TOURING BICYCLE

This is the newest addition to the Univega Grand Touring Line. An affordable GT machine with such top-of-the-line features as a frame of Chromoly main tubing and Sakae CXC-T300 Triple alloy cotterless crankset. Other features include alloy rims and hubs, and Suntour Black Line wide ratio derailleur.

15 Speeds—27 lbs.

Burgundy or Racing Blue



# Nuovo Sport

UNIVEGA

## SPORT AND LEISURE BICYCLE

This is the ideal Univega for sport and leisure riding. It features a light and lively Italian design frame with Chromoly main tubing. Plus details never found in this class, including such proven components as Dia-Compe side pull brakes with twin levers, Sakae alloy crankset, Suntour VX-GT derailleurs, alloy rims, quick release alloy hubs and alloy seat post. Available in a full selection of frame sizes, including specially designed and perfectly proportioned 18½" frame with 26" wheels for the petite rider.

12 Speeds—26 lbs.

Cardinal Red, Racing Blue, or Gunmetal Gray



# Supra Sport

UNIVEGA

## SPORT AND LEISURE BICYCLE

This is the sport and leisure bicycle with all the styling and features of a high priced, high performance machine. Unheard of value with a frame of Chromoly main tubing, spoon seat stay, bottle bosses and brazed-on cable guides. Plus alloy side-pull brakes with twin levers, alloy rims and hubs with quick-release front. And Suntour AR-GT derailleurs.

12 Speeds—27 lbs.

Black, Silver Mist or Brown Sand





# Custom Maxima

UNIVEGA

## SPORT AND LEISURE BICYCLE

This Univega provides the sportiness and response of a lightweight bicycle in an affordable and rugged form. Mangalight Main Tubes with High tension steel fork, and alloy cotterless crankset. Quality components including the latest Shimano Z501 derailleur and the Z570 alloy brakes.

10 Speeds — 28 lbs.

Brilliant Blue, Cardinal Red or  
Gunmetal Gray



# Safari Ten and Super Star

UNIVEGA

## SPORT AND LEISURE BICYCLES

**Safari Ten** has been designed to fit the budget of the young cyclist who demands a ten-speed with quality. Fully lugged frame with rugged steel components. Suntour Seven derailleurs with stem shifters and anatomic saddle.

**Super Star** features the same high quality design with 24" wheels and 18" frame for smaller riders.

10 Speeds—33 lbs.

Blue, Burgundy or Gunmetal Gray



# Five Star

UNIVEGA

## COMMUTER AND LEISURE BICYCLE

The ideal lightweight commuting and leisure bicycle. A solid, fully lugged frame with comfortable touring handlebars, plus light fenders. Equipped with carrier, kickstand and such quality components as cotterless crankset, Suntour Seven rear derailleur plus a comfortable spring mattress saddle.



5 Speeds—34 lbs.

Blue or Burgundy



# Tri Star

UNIVEGA

## COMMUTER AND LEISURE BICYCLE

This is the classic 3-speed bicycle that used to be called the "English Racer." And we've maintained all the great classic features that have made this a favorite over the years. Such rugged failsafe features as fully-lugged frame with comfortable Touring handlebars and padded saddle. And, of course, the classic 3-speed internal hub and side-pull brakes.

3 Speeds—35 lbs.

Blue or Bright Red



# Folding Three

UNIVEGA

## COMMUTER AND LEISURE BICYCLE

It's everybody's favorite. The most practical and fun bicycle to own. It folds quickly to fit into the smallest spaces. The seat and handlebar adjust quickly and easily to fit anyone in the family. It's so easy to ride with the Sturmey-Archer 3-speed hub. No wonder this is the most popular bicycle in all of Europe!

3 Speeds—33 lbs.

Blue or Red



# Technical Specifications—1984 UNIVEGA Models

MODEL:	SPECIALISSIMA	GRAN TURISMO	VIVA TOURING	NUOVO SPORT	SUPRA SPORT	CUSTOM MAXIMA	SAFARI TEN	
<b>FRAME:</b>	Chromoly double butted tubing. Chromoly chain stays and wide tapered seat stays. Tange Champion lugs. Brazed-on cable guides, bottle boss, and chain rest.	Chromoly double butted tubing. Fully lugged. Wide tapered seat stays. Brazed-on cable guides, bottle boss, and chain rest.	Chromoly main tubing. Fully lugged, wide tapered seat stays, brazed-on cable guide, bottle boss.	Chromoly main tubing. Fully lugged. Spoon type seat stays. Brazed-on cable guides and bottle boss.	Chromoly main tubing. Fully lugged. Spoon type seat stays. Brazed-on cable guides and bottle boss.	Chromoly main tubing. Fully lugged. Spoon type seat stays. Brazed-on cable guides and bottle boss.	MANGALIGHT main tubings, full lugged with brazed-on cable guides.	Light steel tubing. Fully lugged.
<b>FRAME SIZE:</b>	50, 54, 57, 60, 63cm.	19 1/2", 21", 23", 25" Ladies 19 1/2" (Mixte Type).	Men's 19 1/2", 21", 23", 25" Ladies 19 1/2" (Mixte Type).	Men's 19 1/2", 21", 23", 25" and 18 1/2" with 26 x 1 1/4" wheels. Ladies 19 1/2" (Mixte Type).	Men's 19 1/2", 21", 23", 25" Ladies 19 1/2" or 22" (Mixte Type).	Men's 19 1/2", 21", 23", 25" Ladies 19 1/2" (Mixte Type).	Men's 19 1/2", 21", 23", 25" Ladies 19 1/2" (Mixte Type).	
<b>FRONT FORK:</b>	Chromoly tubing with reinforcement plates, Model C5 crown.	MANGALIGHT Steel with Model C5 crown.	Hi-tension steel with 525 Italian style crown, forged ends.	Hi-tension steel racing type with #525 Italian style crown.	Hi-tension steel racing type with #525 Italian style crown.	Hi-tension steel racing type with solid ends.	Light steel tubing with solid ends.	
<b>HEADSET:</b>	TANGE New LEVIN sealed.	TANGE NOVA	TANGE MA-60	TANGE MA-60	TANGE MA-60	TANGE MA-60	UNIVEGA ball bearings.	
<b>CRANKSET:</b>	SUGINO TAT one piece forged light alloy cotterless. 52 x 47 x 34 teeth, triple chainwheel with B.B. sealed bearing cups.	SUGINO TGT one piece forged alloy cotterless. 52 x 46 x 28 teeth triple chainwheel.	SAKAE CXC-T300 one piece forged alloy cotterless. 52 x 46 x 36 teeth triple chainwheel.	SAKAE CT-5RG one piece forged alloy cotterless 52 x 42 teeth double chainwheel.	SUGINO DNJG alloy cotterless crank 52 x 42 teeth double chainwheel.	SAKAE CTC-5DXM alloy cotterless crank. 52 x 42 teeth double chainwheel.	ANLUN alloy cotterless crank with 52 x 42 double chainwheel.	
<b>TIRES:</b>	27" x 1 1/4" hi-pressure 90 lbs. Nylon Belted skin walls.	27" x 1 1/4" hi-pressure 90 lbs. Nylon Belted skin walls.	27" x 1 1/4" hi-pressure 90 lbs. Nylon Belted skin walls.	27" x 1 1/8" hi-pressure 100 lbs. gum side wall.	27" x 1 1/8" hi-pressure 100 lbs. gum side wall.	27" x 1 1/8" hi-pressure 100 lbs. gum side wall.	27" x 1 1/4" hi-pressure, gum side wall.	
<b>RIMS:</b>	ARAYA 16A 25MM wide light alloy.	ARAYA 16A 25MM wide light alloy.	ARAYA 16A 25MM wide light alloy.	ARAYA Model 18. 27" x 1 1/4" light alloy.	ARAYA Model 18. 27" x 1 1/4" light alloy.	ARAYA Model 5H. 27" x 1 1/4" chrome plated steel.	27" x 1 1/4" chrome plated steel.	
<b>HUBS:</b>	SUNTOUR Sprint double sealed, forged alloy, small flange with quick release, 32 holes front 40 rear.	SUNTOUR sealed bearing alloy small flange with quick release.	SUNSHINE small flange alloy. Front quick release.	SUNSHINE small flange light alloy with quick release front and rear.	SUNSHINE small flange alloy, quick release front.	SUNSHINE steel c.p. large flange with quick release front.	Chrome plated steel, semi large flange.	
<b>FREEWHEEL:</b>	SUNTOUR New-Winner, 14-28 teeth, 5 speed, with alloy spoke protector.	SUNTOUR Pro-Compe Gold 14-32 teeth, 5 speed, with alloy spoke protector.	SUNTOUR PT500 14-32 teeth 5 speeds with alloy spoke protector.	SUNTOUR PT-6000, 14-32 teeth, 6 speed with spoke protector.	SUNTOUR PT-6000, 14-32 teeth, 6 speed with spoke protector.	SHIMANO UG 14-28 teeth 5 Speeds, with spoke protector.	14-28 teeth, 5 speed with spoke protector.	
<b>SPOKES:</b>	14G, c.p. with brass nipples.	14G, c.p. with brass nipples.	14G, c.p. with brass nipples.	14G, c.p. with brass nipples.	14G, c.p. with brass nipples.	14G c.p. with steel nipples.	14G c.p. with steel nipples.	
<b>DERAILLEURS:</b>	SUNTOUR Superbe Tech-L wide ratio sealed with bar end levers.	SUNTOUR Mountech-GTL with down tube shifters.	SUNTOUR Black Line GT with down tube shifters.	VX-GT wide ratio with down tube shifters.	SUNTOUR AR Front, AR-GT rear with down tube shifters.	SHIMANO the latest model Z with stem shifters.	SUNTOUR SEVEN with stem shifters.	
<b>HANDLEBAR:</b>	NITTO Randonneur alloy with NITTO Technomic alloy stem.	SAKAE RND-420L alloy randonneur with Custom alloy stem.	SAKAE RNS-395 randonneur with SR-AH light alloy stem.	SAKAE CTD alloy racing style with SR-AH alloy stem.	SAKAE racing style with SR-AH light alloy stem.	SAKAE racing style with SR-AH alloy stem, touring style handlebar on Ladies.	Chrome plated steel racing type with cushion sleeves.	
<b>BRAKES:</b>	Gran Campi MB 980 cantilever with NGC hood levers.	DIA-COMPE 981 cantilever alloy with 161 G hooded levers.	DIA-COMPE #960 cantilever alloy brakes with rubber hood levers.	DIA-COMPE 500N side pull alloy with quick release, tire guides and twin levers.	DIA-COMPE 500N side pull alloy with quick release and twin levers.	SHIMANO the latest Model Z side pull alloy with twin levers.	Alloy side pull with twin levers.	
<b>CHAIN:</b>	D.I.D. Lanner Silver.	D.I.D. Lanner Gold/Blue.	SUNTOUR-Z Black.	KEC.	KEC.	KEC.	Standard.	
<b>PEDALS:</b>	SUNTOUR Superb-Pro light alloy sealed bearings.	MKS AR Road alloy.	MKS AR Road alloy.	MKS AR alloy.	MKS Model RT-7 chrome plated steel.	MKS Model RT-7 steel c.p.	Steel rat trap.	
<b>SADDLE:</b>	SELLE ITALIA Anatomic Touring, Black Suede with SAKAE CT-PSB Fluted alloy seat post.	SELLE ITALIA Anatomic Touring, Black Suede with SAKAE CT-P6B Fluted alloy seat post.	SELLE ITALIA Anatomic vinyl with SAKAE CT-P6B Fluted alloy seat post.	SELLE ITALIA Anatomic Vinyl with SAKAE CT-P6 Fluted alloy seat post.	SELLE ITALIA Anatomic vinyl with stainless steel seat post.	SELLE ITALIA Anatomic Vinyl with stainless steel seat post.	Anatomic type, vinyl top, with C.P. seat post.	

FIVE STAR	TRI STAR	FOLDING THREE
Light steel tubing. Fully lugged.	Light steel tubing. Fully lugged.	Light steel tubing. Fully welded. With quick release center hinge.
Men's 21" or 23" Ladies 19 1/2" (Mixed type).	Men's 21" or 23" Ladies 19 1/2"	16"
Light steel tubing with solid ends.	Light steel tubing painted.	Light steel tubing painted.
UNIVEGA ball bearings.	UNIVEGA ball bearings.	Ball bearing with quick release stem clamp.
C.P. steel, cotterless with guard.	C.P. steel cottered.	Chrome plated steel. Cottered.
27" x 1 1/4" hi-pressure, gum side wall.	26" x 1 3/8" gum side wall.	20" x 1.75 white wall.
27" x 1 1/4" chrome plated steel.	26" x 1 3/8" chrome plated steel.	20" x 1.75 alloy.
Chrome plated steel, semi large flange.	C.P. steel front. 3 speed internal rear.	Alloy front. 3 speed internal rear.
14-28 teeth, 5 speed with spoke protector.	Single on 3 speed hub.	Single on 3 speed hub.
14G c.p. with steel nipples.	14G c.p. with steel nipples.	14G c.p. with steel nipples.
SUNTOUR SEVEN with stem shifters.	—	—
Touring type C.P. steel with alloy stem.	Touring, C.P. steel with cushion grips.	C.P. steel with adjustable stem.
Alloy side pull.	Steel side pull.	Weinman alloy side pull.
Standard.	Standard.	Standard.
Steel with rubber.	Steel with rubber.	Union rubber with reflectors.
Spring mattress large type.	Touring padded with C.P. steel seat post.	Touring padded with extra long seat post and quick release clamp.

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**Land Rover Ten**  
**Land Rover Five**  
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**Cruiser 500**  
**Cruiser 100**  
**Pacesetter—Aero**  
**Pacesetter—Pro**  
**Pathfinder**  
**Explorer**



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**Discovery 16**  
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