



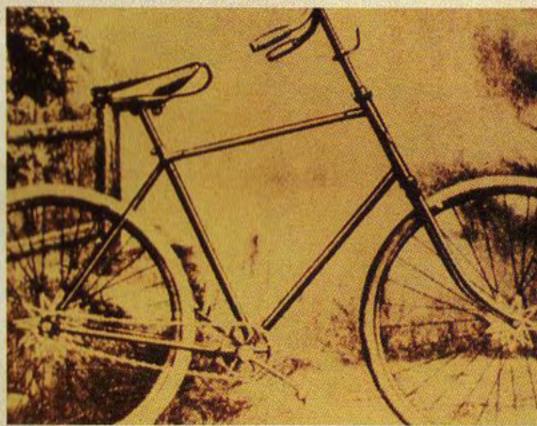


Tokyo in 1889 had barely seen a bicycle before—and here was an American pushing a broken one through the Ginza, crowded as always with messengers, carts, rick-shaws, peddlers and water carriers. As the bicycle passed a small factory, the owner, Eisuke Miyata, stepped into the street. The American stopped. Could they...?

ONE YEAR LATER, THE MIYATA RIFLE FACTORY'S REPUTATION FOR REPAIRING FOREIGN BICYCLES HAD CREATED A "SIDELINE" BIG ENOUGH TO REQUIRE A MOVE INTO LARGER QUARTERS, WHERE MR. MIYATA PROCEEDED TO DESIGN AND PRODUCE JAPAN'S FIRST BICYCLE. AND WHERE THE NEW COMPANY'S COMMITMENT TO THE FUTURE OF WHEELED VEHICLES LED, NOT JUST TO REMARKABLE

BREAKTHROUGHS IN
BICYCLE MANUFACTURE,
BUT TO PIONEERING DEVELOPMENT AND PRODUCTION
OF AUTOMOBILES AND
MOTORCYCLES AS WELL.

THE PURSUIT OF EXCELLENCE HAS DISTINGUISHED THE MIYATA BICYCLE COMPANY THROUGHOUT ITS HISTORY. FROM THE 1890s SOLID-TIRE BICYCLE CREATED FOR THE CROWN PRINCE OF JAPAN, THROUGH THE BONDED



TITANIUM BICYCLES CREATED FOR THE CHAMPIONS OF THE 1990s, THE MIYATA MISSION HAS BEEN A SINGULAR ONE: To dedicate human resources to the perfection of bicycles that serve the human rider. In the spirit of that philosophy, every Miyata bicycle is covered by a lifetime guarantee. And though many of the world's bicycle manufacturers claim to be on the cutting edge of technology, not one has dared to match the Miyata guarantee.

Today, one hundred years after the first bicycle was wheeled out the rifle factory door, the Miyata reputation is one of Japan's most distinguished exports. And it is especially fitting that Americans, who led Eisuke Miyata to his dream, are the beneficiaries of bicycles that match his vision.

Technology

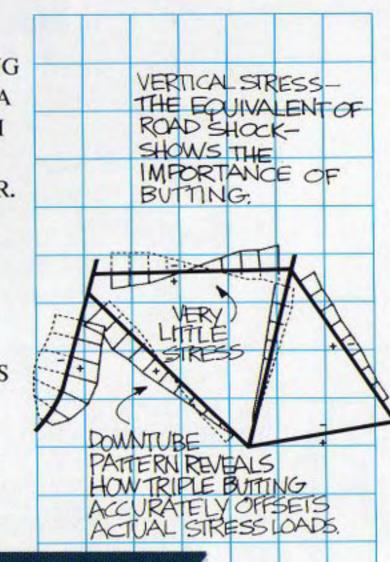
STB: THE WORLD'S FINEST CHROMOLY BICYCLES.

THE ONGOING PROCESS OF BUILDING

THE WORLD'S MOST RELIABLE PRODUCTION BICYCLES LED MIYATA TO THE DEVELOPMENT OF STB TUBING. AS OUR EARLY RESEARCH ON FRAME STRESS REVEALED HOW VIBRATION AND SHOCK TEAR FRAMES APART, WE WERE LEARNING HOW TO KEEP THEM TOGETHER. WE KNEW MAKING THE TUBES THICKER AT HIGH STRESS POINTS WOULD CREATE A STRONGER FRAME—ALSO A HEAVIER ONE. BUT OUR TESTS SHOWED US WHERE FRAMES RECEIVE VERY LITTLE STRESS AS WELL. WE COULD SAVE THE WEIGHT OF REINFORCEMENT BY REDUCING TUBE THICKNESSES AT LOW STRESS POINTS. WE WERE "DOUBLE BUTTING" OUR FRAMES—MAKING THE TUBES THICKER ON THE ENDS WHERE THEY BUTT TOGETHER, THIN IN THE MIDDLE WHERE THERE WAS VERY LITTLE STRESS. BUT THE ENDS DON'T RECEIVE EQUAL STRESS, SO THEY DON'T NEED TO BE THE SAME THICKNESS. A MORE REFINED SOLUTION WAS "TRIPLE BUTTING." THREE THICKNESSES: A DIFFERENT THICKNESS AT

EACH END, ONE THINNER IN THE MIDDLE. EACH OF THE THREE MAIN TUBES IN THE FRAME, DEPENDING ON ITS PRECISE STRESS LOAD, COULD BE BUTTED IN DIFFERENT RELATIONSHIPS. TUBE MANUFACTURERS COULDN'T (OR AT THAT TIME WOULDN'T) PROVIDE THAT KIND OF ACCURACY, SO IN 1981 WE BUILT OUR OWN TUBING MILL. WE WERE, AND ARE, THE ONLY MANUFACTURER TO DRAW OUR OWN TUBES. AND AS A RESULT, THE FIRST TO TRIPLE-BUTT OUR FRAMES. ADDITIONAL RESEARCH REVEALED THAT THE MOST DESTRUCTIVE FORM OF STRESS TO THE FRAME WAS NOT VIBRATION OR VERTICAL

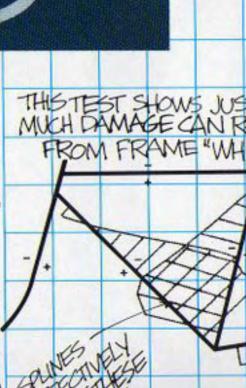
LOADING (HITTING A BUMP) BUT TORSION STRESS. STRESS CREATED WHEN A 175 LB. CYCLIST GETS OFF THE SADDLE AND HAMMERS FOR THE LINE—OR WHEN A RECREATIONAL RIDER WANTS TO GET ACROSS A BUSY HIGHWAY QUICKLY. THE TWISTING, SIDE-TO-SIDE MOTION OF HARD PEDALING CAN TEAR A FRAME APART. OUR ANSWER WAS TO MINIMIZE THE TUBE'S ABILITY TO TWIST BY ADDING RIDGES OF STEEL TO THE INTERIOR WALL RUNNING IN THE SAME DIRECTION AS THE STRESS LOAD. THE RIDGES OF STEEL ARE CALLED SPLINES, AND THEY ARE SO EFFECTIVE IN RESISTING TORSION STRESS, THAT THE TUBE'S THICKNESS COULD BE REDUCED EVEN MORE. ALLOWING US TO TAKE ADDITIONAL WEIGHT OUT OF THE FRAME. SPLINED, TRIPLE-BUTTED TUBING—STB—IS LIGHT, STIFF, STRONG AND MATCHED EXACTLY TO THE DYNAMICS OF THE FRAME. AND IT'S A MIYATA EXCLUSIVE.



SPUNES

BEP TORSION

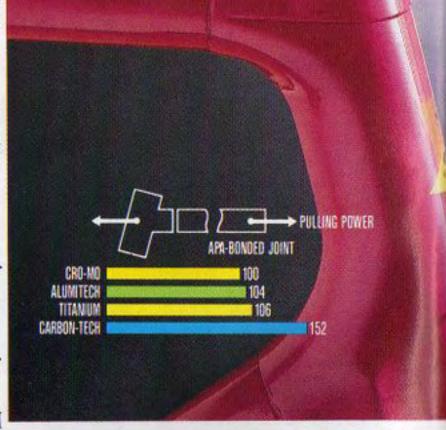
ROM TEARING



APA. ALUMINUM-PRESSURIZED-ADHESIVE BONDING.

WHEN YOU ALREADY BUILD THE WORLD'S FINEST STEEL FRAMES, WHY SEEK ALTERNATIVES? BECAUSE BUILDING THE FINEST STEEL FRAME WAS NEVER OUR GOAL—BUILDING THE FINEST BICYCLE IS. THE MAJOR PROBLEM WITH OPTIMAL BICYCLE PERFORMANCE IS THE MOTOR. ITS POWER SOURCE IS THE CYCLIST, SO TO IMPROVE PERFORMANCE WE HAVE TO MINIMIZE FACTORS THAT WEAR OUT THE ENGINE. CYCLISTS EXPEND ENERGY TWO WAYS: OVER-COMING RESISTANCE AND ABSORBING VIBRATION. MATERIALS THAT REDUCE THOSE FACTORS REDUCE ENERGY LOSS. ALUMINUM IS AN EXCELLENT CHOICE. ALUMINUM FRAMES ARE 20% LIGHTER AND 12% STIFFER THAN STEEL FRAMES. EXTRA STIFFNESS IMPROVES THE CYCLIST'S EFFICIENCY-POWER THAT IS OTHERWISE LOST IN A SOGGY FRAME WILL BE TRANSFERRED DIRECTLY TO THE WHEELS. LESS WEIGHT TRANSLATES INTO LESS RESISTANCE—A GIVEN AMOUNT OF ENERGY WILL PROPEL A LIGHT BICYCLE EITHER FARTHER OR FASTER THAN A HEAVY ONE. THE OTHER MAJOR ADVANTAGE TO ALUMINUM IS THE COMFORT OF ITS RIDE.

VIBRATION AND ROAD SHOCK
ROB THE CYCLIST OF ENERGY,
JUST AS FOOTSTRIKE FATIGUES
A RUNNER OR REPEATED
JABBING WEARS DOWN A
FIGHTER. ALUMINUM TUBING
DAMPENS SHOCK 50% FASTER
THAN STEEL, SO MOST OF IT
NEVER REACHES THE RIDER.
WHY HAVEN'T WE BEEN MAKING BICYCLES OUT OF ALUMINUM ALL ALONG? UNTIL
THE DEVELOPMENT OF AEROSPACE ADHESIVES, THE ONLY
WAY TO BUILD AN ALUMINUM



BICYCLE WAS TO WELD IT. THAT RESULTED IN A LOSS OF STRENGTH AND ALIGNMENT THAT WAS SIMPLY UNACCEPTABLE. UNTIL MIYATA DEVELOPED ALUMINUM-PRESSURIZED-ADHESIVE BONDING. IT STARTS BY MAKING PRECISION-CAST, LIGHT-ALLOY LUGS TO TOLER-ANCES OF 3/100mm. Then a special adhesive is applied to the LUG and tube, which are held under pressure while the Joint is heated to 150° centigrade. Heat, acting as the catalyst, creates a chemical reaction in the Joint, producing a permanent friction coefficient of 300kGs/cm.² That means the tube or the LUG will break before the Glueline will. This method of bonding has proven so superior we now bond our carbon fiber and titanium bicycles with this process.

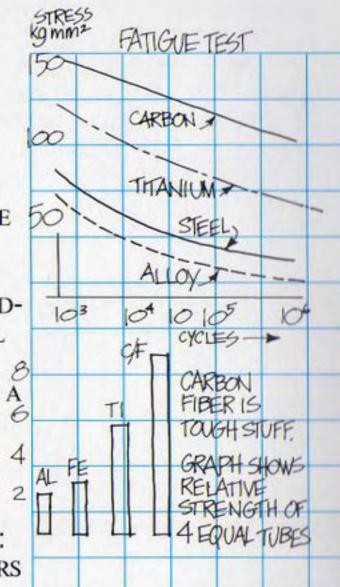
CARBON-TECH. THE NEXT 100 YEARS.

CARBON FIBER. STRONGER THAN STEEL. LIGHTER THAN ALUMINUM. BETTER THAN ANY OTHER FRAME MATERIAL FOR SHOCK ABSORPTION. AND IN THE HANDS OF THE FINEST PRODUCTION FRAME MAKERS IN THE WORLD, STUFF YOU'D EXPECT TO RESULT IN PRETTY SPECTACULAR BICYCLES. MIYATA'S CARBON-TECH MODELS WILL NOT DISAPPOINT YOU. THEY'LL GIVE 50 YOU A RIDE UNLIKE ANYTHING YOU'VE EVER EXPERIENCED. TO APPRECIATE JUST HOW WELL MIYATA HAS ADAPTED THIS SPACE-AGE MATERIAL TO A HUNDRED-YEAR TRADITION OF FRAME BUILD-ING, YOU SHOULD KNOW SOMETHING ABOUT CARBON FIBER. ALL ORGANIC MATERIAL CONTAINS CARBON. A CARBON FIBER IS AN ORGANIC THREAD REDUCED TO PURE CARBON BY COOKING IT IN A NON-OXYGEN ENVIRONMENT. THE THREAD EMERGES FROM THE OVEN, A THIN ROD OF CARBON, WITH THE BASIC PROPERTIES OF UNCOOKED LINGUINI. HARD. VERY STRONG WHEN YOU PULL ON A THE ENDS, BUT EASY TO BREAK IF YOU SNAP IT IN THE MIDDLE. THERE IS A RECIPE TO OVERCOME THAT OBVIOUS DISADVANTAGE: BY IMPREGNATING THE RODS IN RESIN "BLANKETS." MANY LAYERS OF THE BLANKETS ARE THEN FORMED INTO TUBES. BY VARYING THE ANGLES AND NUMBERS OF LAYERS, THE TUBES CAN BE FINE-TUNED TO MATCH FRAME STRESSES

JUST LIKE OUR STB TUBING.
ANOTHER REFINEMENT
WE MADE IN OUR TUBE
CONSTRUCTION WAS TO
WRAP THE BLANKETS
AROUND A THIN CORE OF
TEMPERED ALUMINUM

TUBING. THIS TECHNIQUE
SOLVED A NUMBER OF PROBLEMS WE FACED
TRYING TO PERMANENTLY BOND CARBON FIRE

TRYING TO PERMANENTLY BOND CARBON FIBER TUBES TO ALUMI-NUM LUGS. THE CORE CREATES AN ALUMINUM TO ALUMINUM BOND THAT REMAINS STABLE DURING TEMPERATURE CHANGES. BOTH PARTS EXPAND AND CONTRACT IDENTICALLY. THE ALUMI-NUM CAN BE MORE EFFECTIVELY ISOLATED FROM THE CARBON FIBER, THUS AVOIDING THE CORROSIVE BATTERY EFFECT THAT OCCURS WHEN CARBON AND ALUMINUM COME INTO CONTACT. AND THE INNER CORE REINFORCES THE TUBE'S LATERAL STRENGTH. THE BENEFITS TO THE CYCLIST ARE BICYCLES THAT ARE STRONG AND DEPENDABLE, WITH FRAMES 20% STIFFER THAN THE STIFFEST CHROMOLY FRAMES, YET 40% LIGHTER; BICYCLES THAT FILTER OUT HARSH PAVEMENT WHILE STILL COMMUNICATING ESSENTIAL ROAD INFORMATION TO THE RIDER; BICYCLES THAT ABSORB VIBRATIONS AND SHOCKS TO CONSERVE THE CYCLIST'S ENERGY. BICYCLES THAT ARE RELIABLE, LIGHT ULTRA-PERFORMERS FOR THE NEXT 100 YEARS.



45/45 PREPREG

SHOCK AMPLITUDE

"HANGON"

CRO-MO

TIME T

UNI-DRECTIONAL

SALLOY

TITANIUM. THE ULTIMATE RIDE.

TITANIUM TUBING, ONCE AVAILABLE ONLY TO PUMP HYDRAULIC FLUID THROUGH SUPERSONIC CONTROL SURFACES OR TO DISTRIB-UTE CORROSIVE LIQUIDS THROUGH CHEMICAL COMPLEXES IS NOW AVAILABLE TO PUMP ADRENALIN THROUGH CYCLISTS. TITANIUM MAY BE THE ULTIMATE MATERIAL FOR A BICYCLE FRAME. IT DAMP-ENS SHOCK AND ABSORBS VIBRATIONS AS EFFECTIVELY AS CARBON FIBER IT'S LIGHTER THAN STEEL, STIFFER THAN ALUMINUM AND IMPERVIOUS TO SWEAT, ROAD SALT, OXIDATION AND ACID RAIN-EVEN WITHOUT PAINT. THAT TRANSLATES INTO A COMFORTABLE-TO-RIDE BICYCLE, EFFICIENTLY STIFF, LIGHT AND RESPONSIVE AND ONE THAT WILL LOOK GOOD FOR AS LONG AS YOU OWN IT. WHAT MORE COULD YOU WANT. IF YOUR OBJECTION IS PRICE, WE HAVE LOWERED THAT OBSTACLE AS WELL WITH APA BONDING; A PROCESS SUPERIOR TO WELDING TITANIUM FOR THREE REASONS-STRENGTH, ALIGNMENT AND COST. DURING WELDING, TITANIUM IS EXTREMELY SUSCEPTIBLE TO CONTAMINATION. MINUTE AMOUNTS OF OXYGEN CAN BE ABSORBED THAT WILL EMBRITTLE

THE TITANIUM, CAUSING IT TO SHATTER UNDER STRESS. WELD-ING TEMPERATURES CAN ALSO WARP TUBES, CREATING ALIGN-MENT PROBLEMS THAT CAN ONLY BE SOLVED BY COLD SETTING. THAT'S A EUPHEMISM FOR BENDING THE FRAME STRAIGHT AFTER IT'S BEEN ASSEMBLED. AND, SINCE TITANIUM IS DIFFICULT TO PERMANENTLY BEND, WE DOUBT COLD SETTING IS A PROCEDURE BENEFICIAL TO THE FRAME'S INTEGRITY. NOW, THERE ARE WAYS AROUND THESE PROBLEMS.



TITANIUM FRAMES PROPERLY WELDED WILL BE LIGHT AND STRONG. BUT WE ALSO KNOW IT REQUIRES TECHNIQUES THAT PUT THE FRAME'S PRICE IN AN ATMOSPHERE AS RARIFIED AS THAT REQUIRED FOR THE WELDING PROCESS ITSELF. ROUGHLY, A HUNDRED DOLLARS FOR EACH OUNCE YOU SAVE OVER A LUGGED FRAME—FOR A MAXIMUM REDUCTION EQUAL TO THE DIFFERENCE BETWEEN YOUR WATER BOTTLE BEING FULL AND HALF-EMPTY. WITH OUR TITANIUM FRAME'S ALIGNMENT EQUAL TO THE FINEST CHROMOLY FRAMES, WITH RIDE CHARACTERISTICS IDENTICAL TO OTHER TITANIUM BICYCLES, WITH NO POSSIBILITY OF FAILURE DUE TO BRITTLE METAL, AND WITH OUR LIFETIME GUARANTEE, WE RECOMMEND THE HALF-EMPTY WATER BOTTLE TO REDUCE WEIGHT. AND TO KEEP YOUR POCKETS HALF-FULL.



















Tastes Great.
Less Filling!
This Bike's for Commuting.
No, It's for Hilling!

ENTER THE WORLD OF HYBRID BICYCLES. PRODUCTS WITH THE FUZZIEST MARKET POSITIONING SINCE THE EDSEL; HOWEVER, THIS TIME THE CONFUSION IS INTENTIONAL. ARE THEY LIGHTWEIGHT MOUNTAIN BIKES OR REALLY EXTRA-TOUGH ROAD BIKES? NOT EVEN YOUR HAIRDRESSER KNOWS. BUT A LOT OF CYCLISTS KNEW THEY COULD NEVER USE ALL THE MUSCLE OF AN ATB, AND WOULDN'T ACCEPT THE UNCOMFORTABLE, BENT-OVER RIDE OF A LIGHTWEIGHT. CYCLOCROSS RACERS ARE THE EXCEPTION, AND SUFFER THEIR OWN PECULIAR DEMENTIA.

CrossBicycles

THE CROSS BICYCLE (FGR CROSS-OVER) ANSWERED THE NEED FOR AN EFFICIENT LIGHTWEIGHT THAT COULD SURVIVE A POTHOLED CITY STREET, PROVIDE UPRIGHT COMFORT AND CONTROL AND NOT COME WITH A TRAILER HITCH AND FULL-TIME 4-WHEEL DRIVE. ALAS, OUR FIRST OFFERING OF THE CROSS SERIES WAS FAR TOO TIMID. WE APOLOGIZE. FOR THOSE WHO HAVE PATIENTLY WAITED, REJOICE. THREE NEW MODELS ARE AVAILABLE IN SUFFICIENT QUANTITIES TO CREATE AN IDENTITY CRISIS OF EPIDEMIC PROPORTION.

















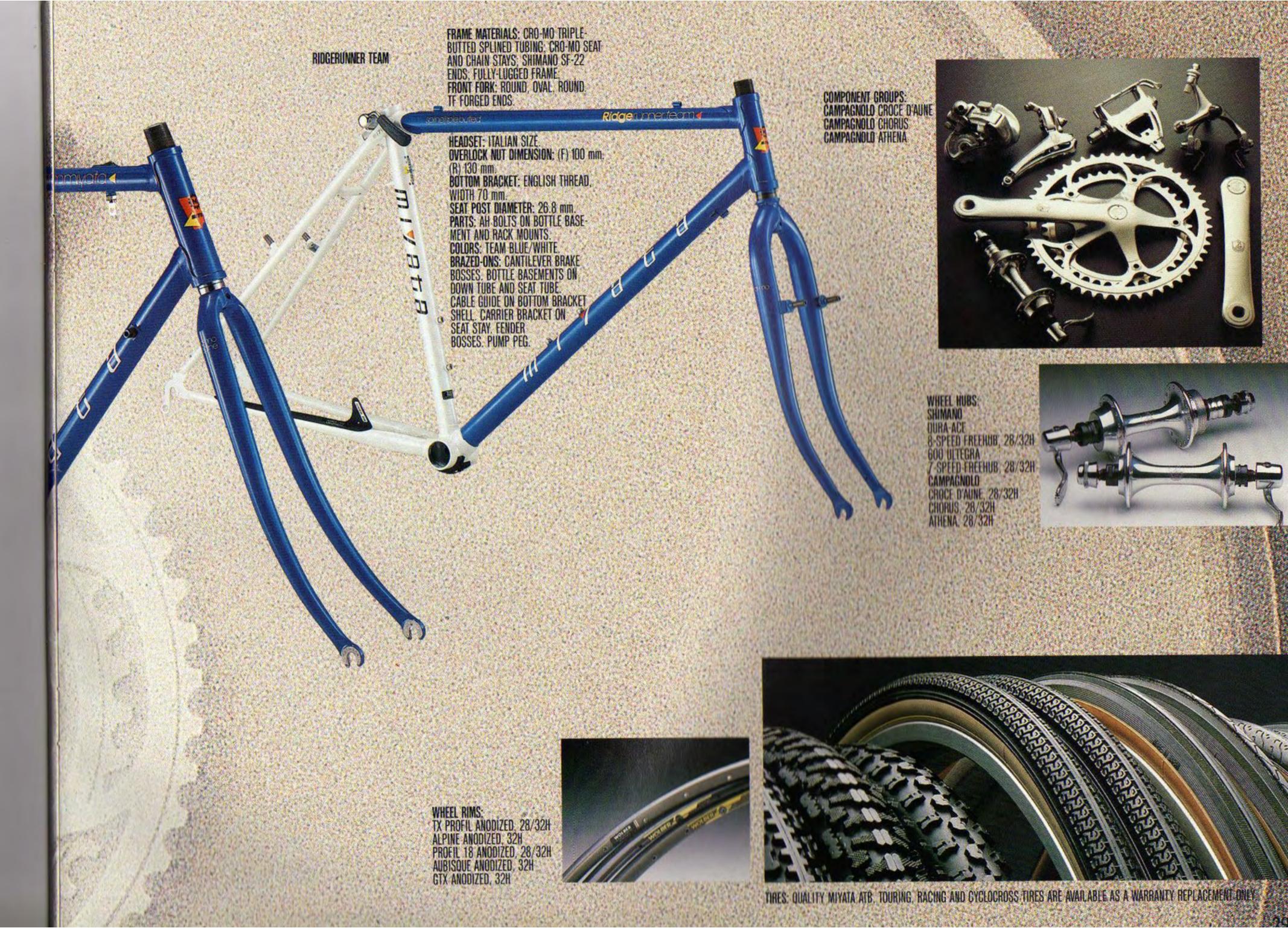














CARBON FIBER/TITANIUM

MODEL	CENTURY	TI-6000	CT-3000	
FRAME SIZES	50,52,54,56,58,60,63cm	50,52,54,56,58,60,63cm	48,50,52,54,56,58,60,63cm	
FRAME MATERIALS	BONDED HYBRID CARBON FIBER MAIN FRAME, INVEST- MENT-CAST, GOLD-PLATED ALUMINUM HEAD LUG, SEAT LUG, BB SHELL; FORGED ENDS, 3-PC CABLE GUIDE	FULL TITANIUM MAIN FRAME; PRECISION-CAST ALUMINUM HEAD LUG, SEAT LUG, BB SHELL, ALUMINUM STAYS; FORGED ENDS; 3-PC TT CABLE GUIDE	CARBON FIBER MAIN FRAME; PRECISION-CAST ALUMINUM HEAD LUG, SEAT LUG, BB SHELL; ALUMINUM STAYS; FORGED ENDS; 3-PC TT CABLE GUIDE	
FORK	CARBON FIBER BONDED BLADES: ALLOY CROWN; ALLOY FORGED ENDS	FULL BONDED ALUMINUM; FORGED ALLOY ENDS	FULL BONDED ALUMINUM; FORGED ALLOY ENDS	
HEAD SET	SHIMANO DURA-ACE; SEALED	TANGE NOVEL; SEALED	SHIMANO RX100; SEALED	
ERAILLEURS	SHIMANO DURA-ACE; SIS, 8-SPEED	SHIMANO ULTEGRA; SIS, 7-SPEED	SHIMANO RX100; SIS, 7-SPEED	
CHAIN	SHIMANO DURA-ACE	SH MANO; HYPERGLIDE	SHIMANO; HYPERGLIDE	
CLUSTER	SHIMANO DURA-ACE, 8-SREED	SHIMANO ULTEGRA, HYPERGLIDE, 7-SPEED	SHIMANO: HYPERGLIDE. 7-SPEED	
CRANK SET	SHIMANO DURA-ACE; ROUND	SHIMANO ULTEGRA, ROUND	SHIMANO RX100, SUPERGLIDE ROUND	
PEDALS	SHIMANO DURA-ACE; CUPLESS	SHIMANO NEW 105; CLIPLESS	SHIMANO RX100 W/TOE CLIPS & STRAPS	
TIRES	NOT INCLUDED	TECNOVA II AR; 700X20mm, KEVLAR	TECNOVA II AR; 700X20mm, KEVLAR	
RIMS	WOLBER PROFIL-18; 32-HOLE, AERO	WOLBER TX PROFIL-20, 32-HOLE, AERO	WOLBER GTX; 32-HOLE, BLACK ANODIZED	
BRAKE SET	SHIMANO DURA-ACE; SLR, AERO LEVER	SHIMANO ULTEGRA; SLR. AERO LEVERS	SHIMANO RX100; SUPER SLR, AERO LEVERS	
HUBS	SHIMANO DURA-ACE; SEALED, OR/F & R, FREEHUB	SHIMANO ULTEGRA; SEALED, QR/F & R FREEHUB	SHIMANO RX100; SEALED, QR/F & R, FREEHUB	
SPOKES	HOSHI BLADED; STAINLESS	14-GAUGE; STAINLESS	14-GAUGE; STAINLESS	
SADDLE	BROOKS PRO; LEATHER	AVOCET RACING GEL	AVOCET RACING GEL	
SEAT POST	SUGINO; CARBON FIBER	SR CLE-100; ALLOY	SR CLE-100; ALLOY	
IANDLE BAR	CINELLI 66-42 ROAD BAR	SR CMB-200; ALLOY	SR CTB; ALLOY	
STEM	CINELLI XA; BLACK ANODIZED	SR CLS; ALLOY	SR CLS; ALLOY, BLACK ANODIZED	
EXTRAS	DUAL BOTTLE BRAZE-ONS; CHAIN HANGER; AIR-BOTTLE BASEMENT; PUMP PEG	DUAL BOTTLE BRAZE-ONS; CHAIN HANGER; AIR-BOTTLE BASEMENT; PUMP PEG	DUAL BOTTLE BRAZE-ONS; CHAIN HANGER: AIR-BOTTLE BASEMENT; PUMP PEG	
COLOR	NATURAL/STERLING BLACK; 14K GOLD LUGS & DROPOUTS	NATURAL/HIGH POLISH	NATURAL/STERLING BLACK	

RACING/COMPETITION/FITNESS/SPORT

TEAM	1400A	914	721A	414	112
50,52,54,56,58,60,63cm	48,50,52,54,56,58,60,63cm	50,54,56,58,60,63cm	48,50,52,54,56,58,60cm	50,54,57,60,63cm	1914,21,23,25"
CRO-MO STB MAIN FRAME AND STAYS, INVESTMENT- CAST CRO-MO HEAD LUG, SEAT LUG, BB SHELL, OVER- SIZE SEAT STAYS; SHIMANO FORGED ENDS	BONDED ALUMINUM MAIN FRAME: PRECISION-CAST ALUMINUM HEAD LUG, SEAT LUG, BB SHELL: ALUMINUM STAYS; FORGED ENDS; 3-PC TT CABLE GUIDE	CRO-MO STB; INVESTMENT- CAST SEAT LUG; FORGED ENDS; THROUGH TT CABLE GUIDE	BONDED ALUMINUM MAIN FRAME; PRECISION-CAST ALUMINUM HEAD LUG, SEAT LUG, BB SHELL; CRO-MO STAYS; FORGED ENDS; THROUGH TT CABLE GUIDE	CRO-MO STB; FORGED ENDS; 3-PC TT CABLE GUIDE	CRO MO, FORGED ENDS; 3- TT CABLE GUIDE
CRO-MO STB BLADES; INVESTMENT-CAST CROWN; SHIMANO FORGED ENDS	FULL BONDED ALUMINUM; FORGED ALLOY ENDS	CRO-MO STB; FORGED ENDS	CRO-MO; FORGED ENDS W/EYELET	CRO-MO SLOPING CROWN DESIGN, FORGED ENDS W/EYELET	CRO-MO; SLOPING CROWN FORGED ENDS W/EYELET
SHIMANO DURA-ACE; SEALED	TANGE NOVA; SEALED	SHIMANO RX100; SEALED	TANGE SEALED	YST PRECISION; SEALED	YST; SEALED
SHIMANO DURA-ACE; SIS, 8-SPEED	SHIMANO NEW 105; SIS, 7-SPEED	SHIMANO RX100, SIS, 7-SPEED	SHIMANO 500LX; SIS, 7-SPEED	SUNTOUR BLAZE, ACCUSHIFT, 7-SPEED	SUNTOUR BLAZE; SIS, 6-SPEED
SHIMANO DURA-ACE	SHIMANO; HYPERGLIDE	SHIMANO; HYPERGLIDE	SHIMANO; HYPERGLIDE	SUNTOUR ALPHA	KMC-2
SHIMANO DURA-ACE; 8-SPEED	SHIMANO; HYPERGLIDE, 7-SPEED	SHIMANO; HYPERGLIDE, 7-SPEED	SHIMANO; HYPERGLIDE, 7-SPEED	SUNTOUR; 7-SPEED	SUNTOUR; 6-SPEED
SHIMANO DURA-ACE; ROUND	SHIMANO NEW 105; SUPERGLIDE, ROUND	SHIMANO RX100; SUPERGLIDE, ROUND	SHIMANO 500LX; BIOPACE	SUNTOUR BLAZE; POWER RING, ROUND	SUNTOUR BLAZE; OVAL TEC
SHIMANO DURA-ACE; CLIPLESS	MKS SYLVAN-LITE W/TOE CLIPS & STRAPS	SHIMANO RX100 W/TOE CLIPS & STRAPS	NEW MKS EDGE W/TOE CLIPS & STRAPS	VICTOR RESIN W/TOE CLIPS & STRAPS	HTI RESIN W/TOE CLIPS & STRAPS
TECNOVA II AR. 700X20mm, KEVLAR	TECNOVA II AR; 700X20mm, KEVLAR	TECNOVA II AR; 700X20mm, KEVLAR	TECNOVA II AR; 700X25mm, KEVLAR	KENDA; SKIN SIDE, 700X25mm	KENDA; SKIN SIDE, 27X1%"
WOLBER TX PROFIL-20; 32-HOLE, AERO	WOLBER TX PROFIL-20; 32-HOLE, AERO	WOLBER GTX, BLACK ANODIZED	ARAYA SS-45	ARAYA SP-20; ALLOY	ARAYA, ALLOY
SHIMANO DURA-ACE; SLR, AERO LEVERS	SHIMANO NEW 105, SUPER SLR, AERO LEVERS	SHIMANO RX100; SUPER SER, AERO LEVERS	SHIMANO 500EX; SUPER SLR, AERO LEVERS	SUNTOUR BLAZE; ALLOY, AERO LEVERS	DIACOMPE; AERO LEVERS
SHIMANO DURA-ACE; SEALED, OR/F & R, FREEHUB	SHIMAND NEW 105; SEALED, QR/F & R, FREEHUB	SHIMANO RX100; SEALED, OR/F & R, FREEHUB	SHIMANO ALLOY: SEALED, OR/F & R, FREEHUB	JOY TECH; ALLOY, SEALED, QR/F & R	JOY YU, ALLOY, OR/F & R
14-15 DOUBLE-BUTTED; STAINLESS	14-GAUGE; STAINLESS	14-GAUGE; STAINLESS	14-GAUGE; STAINLESS	14-GAUGE	14-GAUGE
TURBO SPECIAL	AVOCET RACING	AVOCET RACING	AVOCET MEN'S TOURING	AVOCET MEN'S RACING	VETTA MUNDIAL RACING
SHIMANO DURA-ACE	SR CLE-100; ALLOY	SR CLE-100; ALLOY	SR CRE-110; ALLOY	KALLOY SP-200	KALLOY ALLOY
CINELLI 66-42 ROAD BAR	SR CTB; ALLOY	SR CTB; ALLOY	SR CTB; ALLOY	RACING; ALLOY	DR, ALLOY CENTER
CINELLI XA, BLACK ANODIZED	SR CLS; ALLOY, BLACK ANODIZED	SR CLS; ALLOY	SR CLS; ALLOY	KALLOY, ALLOY	KALLOY; ALLOY
DUAL BOTTLE BRAZE-ONS; CHAIN HANGER: AIR-BOTTLE BASEMENT; PUMP PEG; NUMBER-PLATE BASEMENT	DUAL BOTTLE BRAZE-ONS, CHAIN HANGER, AIR-BOTTLE BASEMENT, PUMP PEG	DUAL BOTTLE BRAZE ONS; CHAIN HANGER, AIR-BOTTLE BASEMENT, PUMP PEG	DUAL BOTTLE BRAZE-ONS, CHAIN HANGER, AIR-BOTTLE BASEMENT, PUMP PEG, REAR- RACK MOUNTS	DUAL BOTTLE BRAZE-ONS; CHAIN HANGER, PUMP PEG	
BRIGHT BLUE/WHITE	INDIGO	STAPLIGHT BLACK	DAYBREAK BLUE, WHITE/PEWTER	PASSION PURPLE/ DARK PLATINUM, WHITE	COSMIC BLUE/WHITE, STERLING BLACK

TOURING

1000 LT

CRO-MO STB; INVESTMENT-CAST SEAT LUG; FORGED

ENDS W/DOUBLE EYELETS: 3-PC TT CABLE GUIDE

CRO-MO: FORGED ENDS W/DOUBLE EYELETS

TANGE NOVA; SEALED

SHIMANO DEORE DX; HYPERGLIDE

SHIMANO DEORE DX; HYPERGLIDE, 7-SPEED

SHIMANO DEORE DX: SUPERGLIDE, BIOPACE

SR PLATFORM, SEALED W/TOE CLIPS & STRAPS

KEVLAR

MIYATA; RADIAL, 700X35mm,

UKAI; LA-14, BLACK & SILVER

SHIMANO DEORE DX; SLR, CANTI, F & R

SHIMANO DEORE DX; SEALED, QR/F & R, FREEHUB

14-GAUGE STAINLESS

AVOCET MEN'S GEL-

SR CLE-100; 220mm

SR CLS, ALLOY, BLACK ANODIZED

DUAL BOTTLE BRAZE-ONS: CHAIN HANGER, PUMP PEG; AIR-BOTTLE BASEMENT; REAR-RACK MOUNTS; LOW RIDER RACK BASEMENT ON FORK BLADES

SR RANDONNEUR

SILVER SAND

SHIMANO DEORE DX; SIS, BAR-END SHIFTERS, 7-SPEED

50,54,57,60,63cm

MODEL

FRAME

FRAME

FORK

HEAD SET

DERAILLEURS

CHAIN

CLUSTER

CRANK SET

PEDALS

TIRES

RIMS

BRAKE SET

HUBS

SPOKES

SADDLE

SEAT POST

HANDLE BAR

STEM

EXTRAS

COLOR

110

SPECIAL STEEL TUBES; FLAT KICK STAND BRIDGE; FORGED ENDS: 3-PC TT CABLE GUIDE

HI-TN; CROWN; SEMI-FORGED ENDS W/EYELET

SHIMANO EXAGE MOTION; SIS, 6-SPEED

KMC-UG; BLACK

HTI RESIN

ARAYA; ALLOY

SHIMANO, 6-SPEED

SHIMANO EXAGE MOTION, BIOPACE

KENDA; GUM SIDE WALL,

SHIMAND EXAGE MOTION;

KK; QR/F, NUTTED R

DR; ALLOY CENTER

KALLOY, ALLOY

SILVER FLAKE, WHITE/SCARLET

14-GAUGE

VELLO

STEEL

AERO LEVERS W/EXTENSIONS

YST

16J,17,19.5,21,23,25"; (M) 17,19.5"

шо.	
600 GT	
46,50,54,57,60,63cm	
CRO-MO STB: FORGED ENDS; 3-PC TT CABLE GUIDE	
CRO-MO; FORGED ENDS W/DOUBLE EYELETS	
TANGE; SEALED	
SUNTOUR XCE; ACCUSHIFT, BAR-END SHIFTERS, 7-SPEED	
SUNTOUR ALPHA	
SUNTOUR; 7-SPEED	
SUGINO MP-110; ALLOY	
SR PLATFORM, SEALED W/TOE CLIPS & STRAPS	
MIYATA; RADIAL, 700X35mm,	
KEVLAR	
WOLBER GTA	
SUNTOUR XCE; CANTI, F & R	
SANSIN, SEALED; OR/F & R	
14-GAUGE; STAINLESS	
AVOCET MEN'S TOURING	
SR CLE-100; 220mm	
SR RANDONNEUR	
SR CLS, ALLOY	
DUAL BOTTLE BRAZE-ONS; CHAIN HANGER; PUMP PEG, REAR-RACK MOUNTS	
HORIZON BLUE	

CROSSOVER

ALUMI-CROSS	QUICK-CROSS	TRIPLE-CROSS
48,50,52,54,56,58,60cm	48,50,52,54,56,58,60cm	46,50,54,56,58,60,63cm
BONDED ALUMINUM MAIN FRAME: PRECISION-CAST ALUMINUM HEAD LUG, SEAT LUG, BB SHELL, CRO-MO STAYS: FORGED VERTICAL ENDS: THROUGH TT CABLE GUIDE	BONDED ALUMINUM MAIN FRAME; PRECISION-CAST ALUMINUM HEAD LUG, SEAT LUG, BB SHELL; CRO-MO STAYS; FORGED VERTICAL ENDS; THROUGH TT CABLE GUIDE	CRO-MO STB; FORGED VERTI- CAL ENDS; 2-PC TT CABLE GUIDE
CRO-MO UNICROWN DESIGN, FORGED ENDS W/EYELET	CRO-MO UNICROWN DESIGN; FORGED ENDS W/EYELET	CRO-MO SEMI-SLOPING DESIGN; FORGED ENDS W/EYELET
TANGE NOVA: SEALED	SHIMANO RX100; SEALED	YST; SEALED, BLACK ANODIZED
SHIMANO DEORE DX-STI, 7-SPEED, BAR-END SHIFTER	SHIMANO SODLX-STI, 7-SPEED, RAPID FIRE	SHIMANO 300LX-STI, 7-SPEED, RAPID FIRE
SHIMANO DEORE DX: HYPERGLIDE	SHIMANO; HYPERGLIDE	SHIMANO; HYPERGLIDE
SHIMANO DEORE DX; HYPERGLIDE, 7-SPEED	SHIMANO; HYPERGLIDE, 7-SPEED	SHIMANO; HYPERGLIDE, 7-SPEED
SHIMANO DEORE DX; SUPERGLIDE, ROUND	SHIMANO 400LX; SUPERGLIDE, BIOPACE	SHIMANO 300LX; SUPERGLIDE, BIOPACE
SHIMANO DEORE LX W/CLIPS & STRAPS	SHIMANO DEORE LX W/CLIPS & STRAPS	VICTOR RESIN W/TOE CLIPS & STRAPS
NATIONAL KHARTOUM; 700X35mm	NATIONAL KHARTOUM: 700X35mm	CHENG SHIN CROSS COUNTRY 700X35mm
WOLBER GTX: BLACK ANODIZED	ARAYA SS-45, BLACK ANODIZED	ARAYA SS-45
SHIMANO DEORE DX; SLR, CANTI, F & R, 2-FINGER LEVERS	SHIMANO SOOLX, SLF, CANTI, F & B	SHIMANO 400LX; SLR, CANTI, F & R
SHIMANO DEORE DX; SEALED, DR/F & R, FREEHUB	SHIMANO ALLOY: SEALED, OR/F & R. FREEHUB	SHIMANO ALLOY, SEALED, OR/F & R, FREEHUB
14-GAUGE; STAINLESS	14-GAUGE; STAINLESS	14-GAUGE, STAINLESS
AVOCET RACING GEL	AVOCET MEN'S TOURING	AVOCET MEN'S TOURING
SR CLE-100; 300mm	SR CLE-100; 300mm	KALLOY SP-242; 300mm
NITTO BB-1; SPREAD BAR	SR MTB-320; BLACK ANOD ZED	TRAIL; BLACK ANODIZED
NITTO MT-6 W/HQLE, BLACK ANODIZED	SR MTS-300 W/HOLE, BLACK ANODIZED	H.L. ALLOY W/HOLE, BLACK ANODIZED
Q/R COVERED SEAT BINDER; DUAL BOTTLE BRAZE-ONS: CHAIN HANGER, REAR-RACK MOUNTS: AIR-BOTTLE BASE- MENT: PUMP PEG; SHARK FIN	O/R COVERED SEAT BINDER; DUAL BOTTLE BRAZE-ONS; CHAIN HANGER; REAR-RACK MOUNTS; AIR-BOTTLE BASE- MENT; PUMP PEG	Q/R COVERED SEAT BINDER; DUAL BOTTLE BRAZE-ONS; CHAIN HANGER; REAR-RACK MOUNTS; PUMP PEG
OYSTER	PARAKEET	CONCORD BLUE

MT. CENTURY	RIDGE RUNNER TEAM	TRAIL RUNNER
16.5, 18.5, 20.5, 22.5"	16.5, 18.5, 20.5, 22.5"	16.5, 18.5, 20.5, 22.5"
BONDED CARBON FIBER MAIN FRAME; PRECISION-CAST ALUMINUM HEAD LUG, SEAT LUG, BB SHELL; ALUMINUM SEAT & CHAIN STAYS; FORGED VERTICAL ENDS; 2-PC TT CABLE GUIDE	CRO-MO STB; FORGED VERTI- CAL ENDS; 2-PC TT CABLE GUIDE	BONDED ALUMINUM MAIN FRAME PRECISION-CAST ALUMINUM HEAD LUG, SEAT LUG, BB SHELL; CRO-MO STAYS; FORGED VERTICAL ENDS; 2-PC TT CABLE GUIDE
CRO-MO; UNICROWN DESIGN; ROUND-OVAL-ROUND; FORGED ENDS; BUTTED BLADES	CRO-MO; UNICROWN DESIGN; ROUND-OVAL-ROUND; FORGED ENDS; BUTTED BLADES	CRO-MO; UNICROWN DESIGN; ROUND-OVAL-ROUND; FORGED ENDS W/EYELET
SHIMANO DEORE XT II; BLACK ANODIZED	SHIMANO DEORE DX; BLACK ANODIZED	TANGE SEALED; BLACK ANODIZED
SHIMANO DEORE XT II-STI, 7-SPEED, RAPID FIRE	SHIMANO DEORE DX-STI, 7-SPEED, RAPID FIRE	SHIMANO DEORE LX-STI, 7-SPEED, RAPID FIRE
SHIMANO DEORE XT II; HYPERGLIDE	SHIMANO DEORE DX; HYPERGLIDE	SHIMANO DEORE LX. HYPERGLIDE
SHIMANO DEORE XT II; HYPERGLIDE, 7-SPEED	SHIMANO DEORE DX; HYPERGLIDE, 7-SPEED	SHIMANO DEORE LX: HYPERGLIDE, 7-SPEED
SHIMANO DEORE XT II; SUPERGLIDE, ROUND	SHIMANO DEORE DX; SUPERGLIDE, ROUND	SHIMANO DEORE LX; SUPERGLIDE, ROUND
SHIMANO DEORE XT II; NARROW W/ATB CLIPS & STRAPS	SHIMANO DEORE DX; NARROW W/ATB CLIPS & STRAPS	SHIMANO DEORE LX W/ATB CLIPS & STRAPS
RITCHEY MEGABITE OVERDRIVE; 26X2.00"	RITCHEY MEGABITE OVERDRIVE; 26X2.00"	RITCHEY MEGABITE OVERDRIVE, 26X2 00"
RITCHEY VANTAGE COMPETITION; BLACK ANODIZED, 32-HOLE	RITCHEY VANTAGE COMPETITION; BLACK ANODIZED, 32-HOLE	ARAYA VP-20
SHIMANO DEORE XT II; SLR, CANTL F & R, 16" W/U-BRAKE; 2-FINGER LEVERS	SHIMANO DEORE DX II; SLR, CANTI, F & R, 16" W/U-BRAKE; 2-FINGER LEVERS	SHIMANO DEORE LX; SLR, CANTL F & R, 16" W/U-BRAKE
SHIMANO DEORE XT II; SEALED, QR/F & R, FREEHUB	SHIMANO DEORE DX; SEALED, QR/F & R, FREEHUB	SHIMANO DEORE LX, SEALED, OR/F & R, FREEHUB
14-GAUGE, STAINLESS	14-GAUGE, STAINLESS	14-GAUGE, STAINLESS
SELLE ITALIA TURBO SPECIAL	AVOCET RACING GEL	AVOCET MEN'S GEL
SHIMANO DEORE XT II	SR MTE-300; DARK ANODIZED	SR MTE-300
TRIMBLE ROO; CARBON FIBER, 1-PC STEM & BAR	TANGE PRESTIGE BULGE; BLACK ANODIZED	SR MTB-224; BLACK ANODIZED
TRIMBLE ROO; CARBON FIBER, 1-PC STEM & BAR	NITTO W/HOLE; BLACK ANODIZED	SR MTS-300BL W/HOLE, BLACK ANODIZED
O/R COVERED SEAT BINDER; DUAL BOTTLE BRAZE-ONS; CHAIN HANGER	O/R COVERED SEAT BINDER; DUAL BOTTLE BRAZE-ONS; CHAIN HANGER; REAR-RACK MOUNTS; PUMP PEG; SHARK FIN	O/R COVERED SEAT BINDER, DUAL BOTTLE BRAZE-ONS, CHAIN HANGER; REAR-RACK MOUNTS
NATURAL/STERLING BLACK; 14K GOLD-PLATED LUGS & DROPOUTS	BRIGHT BLUE/WHITE	MAJESTIC PURPLE

ALL TERRAIN BICYCLES

SHREDDER	COUNTRY RUNNER	SPORT RUNNER	PARK-24	PARK-20	MODEL
16.5, 18.5, 20.5, 22.5"	16.5, 18.5, 20.5, 22.5" (L) 16, 18"	16.5, 18.5, 20.5, 22.5" (L) 16, 18"	16," (L) 16" W/24" WHEEL	14" W/20" WHEEL	FRAME SIZES
CRO-MO OVERSIZED STB; EXTERNAL-BUTTED SEAT TUBE; FORGED VERTICAL ENDS; 2-PC TT CABLE GUIDE	CRO-MO STB; FORGED VERTI- CAL ENDS; 2-PC TT CABLE GUIDE	CRO-MO; FORGED VERTICAL ENDS; 2-PC TT CABLE GUIDE	CRO-MO; FORGED VERTICAL ENDS; 2-PC TT CABLE GUIDE	HI-TN; STAMPED ENDS; 2-PC TT CABLE GUIDE	FRAME MATERIALS
CRO-MO; HIGH RADIUS UNICROWN DESIGN; FORGED ENDS W/EYELET	CRO-MO; HIGH RADIUS UNICROWN DESIGN; FORGED ENDS W/EYELET	CRO-MO; HIGH RADIUS UNICROWN DESIGN; FORGED ENDS W/EYELET	CRO-MO; HIGH RADIUS UNICROWN DESIGN; FORGED ENDS W/EYELET	UNICROWN DESIGN; SEMI- FORGED ENDS W/EYELET	FORK
YST: OVERSIZE ALLOY, SEALED	YST PRECISION; SEALED	YST PRECISION; SEALED	YST PRECISION; SEALED	YST PRECISION; SEALED	HEAD SET
SHIMANO 500LX-STI, 7-SPEED, RAPID FIRE	SHIMANO 300LX-STI, 7-SPEED, RAPID FIRE	SHIMANO 200GS-STI, 7-SPEED, RAPID FIRE	SHIMANO 200GS-STI, 7-SPEED, RAPID FIRE	SUNTOUR ACCUSHIFT; 6-SPEED	DERAILLEUR
SHIMANO; HYPERGLIDE	SHIMANO; HYPERGLIDE	SHIMANO; HYPERGLIDE	SHIMANO; HYPERGLIDE	SUNTOUR ALPHA	CHAIN
SHIMANO 500LX; HYPERGLIDE, 7-SPEED	SHIMANO 300LX; HYPERGLIDE, 7-SPEED	SHIMANO 200GS; HYPERGLIDE, 7-SPEED	SHIMANO 200GS; HYPERGLIDE, 7-SPEED	SUNTOUR; 6-SPEED	CLUSTER
SHIMANO 500LX; SUPERGLIDE, ROUND	SHIMANO 300LX; SUPERGLIDE, BIOPACE	SHIMANO 200GS; SUPERGLIDE, BIOPACE	SHIMANO 200GS; SUPERGLIDE, BIOPACE	SCL C/P W/CHAIN GUARD	CRANK SET
VICTOR NARROW W/ATB CLIPS & STRAPS	VICTOR NARROW W/ATB CLIPS & STRAPS	VICTOR RESIN W/ATB CLIPS & STRAPS	VICTOR; RESIN	H.K.; RESIN	PEDALS
ODYSSEY RENEGADE; 26X1.95"	RITCHEY MOD QUAD; 26X2.00"	KENDA; SKIN SIDE, 26X1.9"	KENDA; SKIN SIDE, 24X1.9"	CHENG SHIN; SKIN SIDE, 20X1.75"	TIRES
ARAYA VP-20	ARAYA VP-20	ARAYA MP-22	CMC HE-7N; C/P	CMC HE-7X; C/P	RIMS
SHIMANO 500LX; SLR, CANTI. F & R, 16" W/U-BRAKE	SHIMANO 300LX; SLR, CANTI. F & R. 16" W/U-BRAKE	SHIMANO 200GS; SLR, CANTI. F & R, 16" W/U-BRAKE	SHIMANO 200GS; SLR, CANTL F & R W/U-BRAKE	CHANG STAR; CANTI, F & R W/U-BRAKE, SHORT REACH LEVERS	BRAKE SET
SHIMANO ALLOY; SEALED, OR/F & R, FREEHUB	SHIMANO ALLOY; SEALED, QR/F & R, FREEHUB	SHIMANO ALLOY, SEALED, QR/F, NUTTED R, FREEHUB	SHIMANO; ALLOY, SEALED, QR/F, NUTTED R, FREEHUB	PRECISION; NUTTED F & R, BLACK ANODIZED	HUBS
14-GAUGE, STAINLESS	14-GAUGE, STAINLESS	14-GAUGE; STAINLESS	14-GAUGE	14-GAUGE	SPOKES
AVOCET MEN'S GEL	AVOCET MEN'S TOURING	VELO "MIYATA"	VELO "MIYATA"	VELO "MIYATA"	SADDLE
KALLOY, OVERSIZE, 300mm	KALLOY; 300mm	CRO-MO; 300mm	CRO-MO; 230mm	CRO-MO; 230mm	SEAT POST
RITCHEY FORCE; BLACK ANODIZED	H.L. COMP; BLACK ANODIZED	TRAIL; BLACK ANODIZED	TRAIL; BLACK ANODIZED	TRAIL: BLACK ANODIZED	HANDLE BA
H.L. CRO-MO: BLACK ANODIZED	H.L. CRO-MO; PAINTED	KALLOY W/ HOLE	KALLOY W/ HOLE	KALLOY W/HOLE	STEM
Q'R COVERED SEAT BINDER; DUAL BOTTLE BRAZE-ONS; CHAIN HANGER; REAR-RACK MOUNTS	O/R COVERED SEAT BINDER; DUAL BOTTLE BRAZE-ONS; CHAIN HANGER; REAR-RACK MOUNTS	O/R COVERED SEAT BINDER: DUAL BOTTLE BRAZE-ONS; REAR-RACK MOUNTS	Q/R COVERED SEAT BINDER; DUAL BOTTLE BRAZE-ONS; REAR-RACK MOUNTS; K-STAND MOUNT	Q/R COVERED SEAT BINDER; SINGLE BOTTLE BRAZE-ON; K-STAND MOUNT	EXTRAS
PARAKEET, DARK PLATINUM/WHITE	INDIGO, FOREST GREEN/WHITE	SWAMPWATER, STARLIGHT BLACK/SCARLET	PASSION PURPLE, PARAKEET/WHITE	SILVER FLAKE/STARLIGHT, BLACK	COLOR

TopTubeHeight

CENTURY, TIGODO, TEAM, CT3000, 1400, 914								BE HEIGHT
Size	48	50	52	54	56	58	60	63
IT HT cm.	73.1	75.1	76.8	78.7	80.4	82.4	84.3	87.2
IT HT in.	28.80	29.55	30.23	30.99	31.67	32.42	33.18	34.31

721, 414								TOP TUBE	HEIGHT
Size	46	48	50	52	54	56	58	60	63
TT HT cm.	72.0	73.9	74.8	76.7	78.2	80.2	82.1	84.0	86.8
TT HT in.	28.34	29.10	29.45	30.21	30.80	31.56	32.31	33.06	34.19

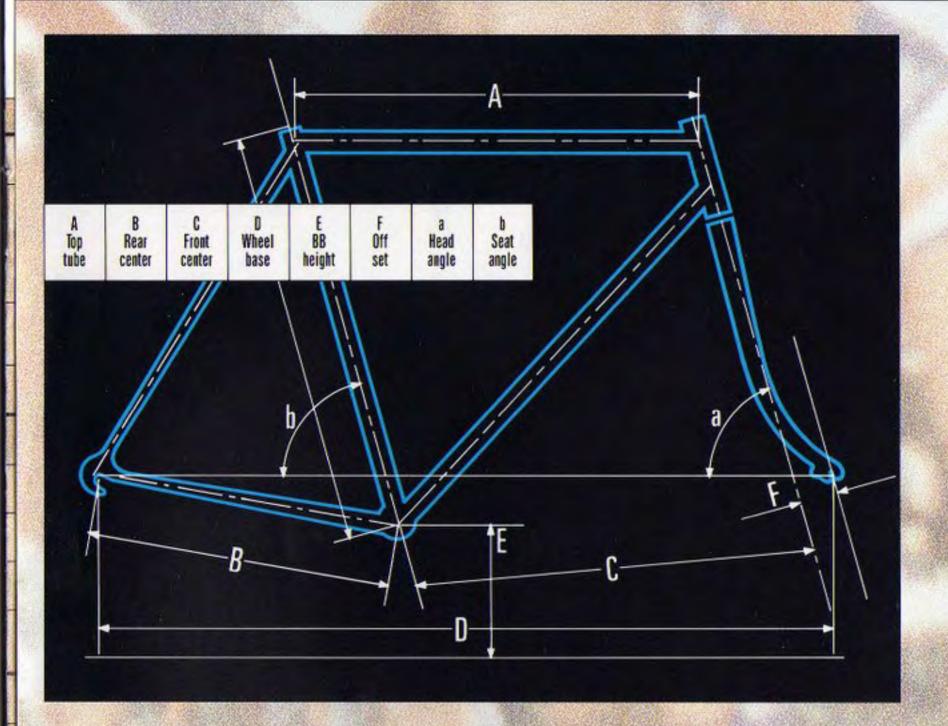
1000LT, 600GT TOP TUE							
Size	46	50	54	57	60	63	
TT HT cm.	72.7	76.6	79.4	82.2	84.6	87.4	
TT HT in.	28.64	30.14	31.24	32.37	33.29	34.42	

ALUMICROSS, QUICKCROSS, TRIPLECROSS									HEIGHT
Size	46	48	50	52	54	56	58	60	63
TT HT cm.	73.8	75.7	77.3	78.7	80.6	82.1	84.0	85.4	88.2
TT HT in.	29.05	29.80	30.44	31.00	31.75	32.30	33.06	33.61	34.74

MT. CENTURY, RIDGE, TRAIL, SHREDDER				TOP TUBE HEIGHT
Size	42	47	52	57
TT HT cm.	69.7	74.6	79.4	84.2
TT HT in.	27.45	29.36	31.24	33.13

COUNTRY, SPORT					TUBE HEIGHT
Size	42	47	52	57	62
T HT cm.	69.7	74.4	79.2	84.0	88.6
T HT in.	27.43	29.31	31.19	33.07	34.96

Frame Geometry



CENTURY, TEAM, TI6000, CT3000, 1400, 914									
Frame Size	A	B	C	D	E	F	a	b	
480 mm	520	408	580	980	270	55	710	74°	
500 mm	520	408	590	990	270	55	710	740	
520 mm	530	408	590	990	268	50	720	740	
540 mm	540	408	590	990	268	50	720	749	
560 mm	550	408	595	995	266	45	730	740	
580 mm	550	408	595	995	266	45	73°	749	
600 mm	560	408	600	1000	266	45	73°	749	
630 mm	570	408	600	1000	266	40	73°	749	

	MT CENT							
Frame Size	A	В	C	D	E	F	3	b
420 mm 161/2"	535	425	615	1030	295	50	719	730
470 mm 18½"	555	425	630	1045	295	46	720	73°30
520 mm 201/2"	575	425	645	1060	295	48	720	73°30
570 mm 22½"	585	425	1660	1075	295	46	720	73930

			1000L	, 600GT			BON 199	
Frame Size	A	В	C	0	E	F	a	b
460 mm	500	445	565	1000	290	60	720	720
500 mm	535	445	595	1030	290	60	720	720
540 mm	545	445	600	1035	280	60	720	729
570 mm	560	445	615	1050	280	60	729	729
600 mm	570	445	630	1065	275	60	729	.72°
630 mm	580	445	630	1065	275	60	720	729

ALUMICROSS, QUICKCROSS, TRIPLECROSS									
Frame Size	A	В	C	0	E	F	a	b	
460 mm	500	430	575	995	298	60	710	730	
480 mm	515	430	580	1005	298	60	710	730	
500 mm	525	430	585	1010	295	55	72°	730	
520 mm	535	430	590	1015	290	55	720	730	
540 mm	545	430	595	1020	290	50	72°	739	
560 mm	550	430	600	1025	285	50	72°	730	
580 mm	560	430	605	1030	285	45	73°	73°	
600 mm	565	430	605	1030	280	45	73°	730	
630 mm	570	430	605	1030	280	45	73°	730	

Frame Size	A	В	C	D	E	F	3	b
460 mm	500	415	570	980	280	60	710	730
480 mm	515	415	580	990	280	60	710	73°
500 mm	525	415	585	990	270	55	720	730
520 mm	535	415	590	995	270	55	720	730
540 mm	545	415	590	995	266	50	720	730
560 mm	550	415	595	1000	266	50	720	73°
580 mm	555	415	600	1005	266	50	720	730
600 mm	560	415	600	1005	266	45	73°	73°
630 mm	570	415	600	1005	266	45	73°	73°
Name and Address of the Owner, where the Owner, which the		-	The second second	STREET, SQUARE, SQUARE,	THE RESERVE AND ADDRESS.	THE RESERVE OF THE PERSON NAMED IN	The second second	-

	C	OUNTRY,	SPORT,	PARK RU	NNER			
Frame Size	A	8	C	0	E	F	a	b
420 mm 161/2"	530	435	625	1055	295	50	70°	730
470 mm 181/2"	550	435	625	1055	295	50	710	73°
520 mm 20½"	570	435	645	1075	295	50	710	73°
570 mm 22½"	590	435	670	1100	295	50	710	730
620 mm 24½"	600	435	670	1100	295	50	710	739

		GEAR II		, di			WHE	EL (Inc	h) 27
Rear		12	13	14	15	16	17	19	21
Outer	53	119.3	110.1	102.2	95.4	89.4	84.2	75.3	68.1
Inner	39	87.8	81.0	75.2	70.2	65.8	61.9	55.4	50.1

		TITANIUN GEAR IN				WHEE	1 (INC	H) 27
Rear		13	14	15	16	.17	19	21
Outer	53	110.1	102.2	95.4	89.4	84.2	75.3	68.1
Inner	39	81.0	75.2	70.2	65.8	61.9	55.4	50.1

		GT3000 GEAR II	AT1400 9 VCHES	114		WHE	EL (In	ch) 27
Rear		13	14	15	16	17	19	21
Outer	53	110.1	102.2	95.4	89.4	84.2	75.3	68.1
inner	42	87.2	81.0	75.6	70.0	66.7	59.7	54.0

MODEL '90 314 GEARING IN GEAR INCHES WHEEL (Inch) 27											
Rear		13	14	16	18	21	24	28			
Outer	52	108.0	100.3	87.8	78.0	66.9	58.5	50.1			
Inner	42	87.2	81.0	70.9	63.0	54.0	47.3	40.5			

		AT721 101 Gear in				WHE	EL (INC	H) 27
Rear		12	14	16	18	21	24	28
Outer	50	112.5	96.4	84.4	75.0	64.3	56.3	48.2
Middle	44	99.0	84.9	74.3	66.0	56.6	49.5	42.4
Inner	28	63.0	54.0	47.3	42.0	36.0	31.5	27.0

ODEL '90 600GT Earing in Gear Inches Wheel (Inch) 27											
ear		13	15	17	20	23	26	30			
uter	50	103.8	90.0	79.4	67.5	58.7	51.9	45.0			
liddle	40	83.1	72.0	63.5	54.0	47.0	41.5	36.0			
nner	28	58.2	50.4	44.5	37.8	32.9	29.1	25.2			
2176	1094500	CONTRACTOR OF	100000000000000000000000000000000000000	STATE OF	DEC NO. 1	PANTO AT	2.57	NAME OF THE OWNER,			

		ALUMI-CE Gear in				WHE	EL (Inc	th) 27
Rear		12	14	16	18	21	24	28
Outer	46	103.5	88.7	77.6	69.0	59.1	51.8	44.4
Middle	36	81.0	69.4	60.8	54.0	46.3	40.5	34.7
Inner	24	54.0	46.3	40.5	36.0	30.9	27.0	23.1

		QUICK-CF GEAR IN				WHE	EL (INC	H) 27
Rear		12	14	16	18	21	24	28
Outer	48	108.0	92.6	81.0	72.0	61.7	54.0	46.3
Middle	38	85.5	73.3	64.1	57.0	48.9	42.8	36.6
Inner	28	63.0	54.0	47.3	42.0	36.0	31.5	27.0

MODEL Gearin		WHE	EL (INC	H) 27				
Rear		13	15	17	20	23	26	30
Outer	48	99.7	86.4	76.2	64.8	56.3	49.8	43.2
Middle	38	78.9	68.4	60.4	51.3	44.6	39.5	34.2
Inner	28	58.2	60.4	44.5	37.8	32.9	29.1	25.2

Gearlables

MODEL '90 (GEARING IN					WHE	EL (HIC	H) 26
Rear	12	14	16	18.	21	24	28
Outer 46	99.7	85.4	74.8	66.4	57.0	49.8	42.7
Middle 36	78.0	66.9	58.5	52.0	44.6	39.0	33.
Inner 24	52.0	44.6	39.0	34.7	29.7	26.9	22.

MODEL '90 (GEARING IN			WHE	EL (INC	H) 26		
Rear	13	15	17	20	23	26	30
Outer 48	96.0	83.2	73.4	62.4	54.3	48.0	41.6
Middle 38	76.0	65.9	58 1	49.4	43.0	38.0	32.9
Inner 28	56.0	48.5	42.8	36.4	31.7	28.0	24.3

				WHE	EL (INC	H) 24
13	15	17	20	23	26	30
88.6	76.8	67.8	57.6	50.1	44.3	38.
70.2	60.8	53.6	45.6	39.7	35.1	30.4
51.7	44.8	39.5	33.6	29.2	25.8	22.
	13 88.6 70.2	88.6 76.8 70.2 60.8	GEAR INCHES 13 15 17 88.6 76.8 67.8 70.2 60.8 53.6	GEAR INCHES 13 15 17 20 88.6 76.8 67.8 57.6 70.2 60.8 53.6 45.6	GEAR INCHES WHE 13 15 17 20 23 88.6 76.8 67.8 57.6 50.1 70.2 60.8 53.6 45.6 39.7	GEAR INCHES WHEEL (INC 13 15 17 20 23 26 88.6 76.8 67.8 57.6 50.1 44.3 70.2 60.8 53.6 45.6 39.7 35.1

MODEL '90 F GEARING IN		HES	WHE	EL (IMC	H) 20
Reat	14	16	19	23	28
Outer 44	62.9	55.0	46.3	38.3	31.4
Middle 36	51.4	45.0	37.9	31.3	25.7
laner 28	40.0	35.0	29.5	24.3	20.0

Warranty

The Miyata Bicycle Warranty

A. Miyata bicycle frames and front forks are warranteed to be free from defect in materials and workmanship under normal use of the bicycle for the lifetime of the bicycle, except in cases specified in Warranty Exclusions.

B. Miyata warranties, for one year from date of sale, all parts except wearing parts (tires, tubes, cables, grips spokes, bar tapes, brake pads, toe clips, straps, small screws and nuts), frame and fork. This does not include items specified in the Warranty Exclusions.

C. During the warranty period, all parts, as determined by Miyata, found to be defective in workmanship or material will be repaired or replaced free of charge, except for shipping and dealer labor charges (if applicable). This applies to parts, frame and front fork.

D. Return of the Warranty registration card to Miyata is a condition precedent to coverage under this warranty. The warranty registration card must be returned to Miyata to validate warranty.

How to Claim Warranty

A. All claims made under this warranty must be made through an authorized Miyata dealer during the relevant warranty period. To obtain warranty service, the owner must return the defective bicycle to an authorized Miyata dealer for inspection with the sales receipt (or other evidence showing the date of purchase) and the owner record in the owner's handbook or owner's manual.

B. If the original dealer is no longer available or is inconveniently located, the name of the authorized dealer nearest to you can be obtained from Miyata whose address is stated below

Warranty Exclusions

A. This warranty covers only the original retail purchaser of the bicycle and is not transferable.

B. This warranty does not cover failure due to accident, abuse, misuse, neglect, normal wear and tear, normal paint fading or chrome rust, improper assembly, improper fit, improper maintenance or use of unauthorized replacement parts.

C. This warranty does not cover any personal injuries, damage or failure of bicycle if used in any competitive event, including bicycle racing, bicycle motocross, stunt or similar activities or when used in training for the same. Motors or other accessories inconsistent with the use intended by Miyata will negate this warranty.

D. This warranty is expressly in lieu of any other warranty and any implied warranty of merchantability or fitness for any purpose is limited in duration to the duration of this express warranty. Miyata shall not be responsible for any consequential or incidental damages.

E. Some states do not allow limitation on how long.

E. Some states do not allow limitation on how long implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation may not apply to you.

F. This warranty does give you specific legal rights, and you also may have other rights which vary from state to state.

G. This warranty does not cover failure due to unlawful acts.

H. Failure to maintain Miyata-requested periodic inspections may invalidate this warranty if such failure can be shown to have contributed to the warranty problem.

1. This warranty is void when the bicycle is used by many and unspecific persons such as rent-a-bicycle businesses.

J. This warranty does not cover failure due to earthquake, lightning, fire, flood, public hazard, and man-made or natural calamity.

K. This warranty does not cover natural phenomena which result from operation of the bicycle, such as vibrations or sounds.

L. This warranty is void when items outlined in the "Owner's Responsibilities" section are not observed.



AUTHORIZED DEALER



OXFORD BICYCLES OF CANADA INC.

57 GLEN CAMERON ROAD, UNIT 4 THORNHILL, ONTARIO, CANADA LET 1P3 miyata

TOLL FREE 1-800-263-5891