

*The Evolution Continues...*



HANDCRAFTED

***RITCHIEY***  
U-S-A

*Mountain Bikes*



# The Ritchey Mountain Bike...

## 1/TOM RITCHEY

TOM RITCHEY has been dedicated to the sport of cycling for nearly fifteen years. His interest in bicycle racing and frame construction began almost simultaneously. As a junior road racer, he was a peer of Jacques Boyer, and represented the United States in the 1974 Junior World Championships. Bicycle racing has continued to be one of Tom Ritchey's main interests. He is still a contender on the mountain bike racing circuit.

However, the design and construction of bicycle frames became Tom Ritchey's passion, and soon, his profession. As a specialist in unusually sized road racing framesets, Ritchey became an expert in the field of lug-less construction. Using unique solutions like ovalized seat tubes and oversized tubes to address special problems, he became renowned for the beauty, strength, and performance of his framesets. He continued to ride regularly on the paved and dirt roads of the hilly countryside around his Palo Alto, California home, so the development of Mountain Bikes was a natural progression. Since 1978, the RITCHEY name has become synonymous with Mountain Bikes. In fact, every off-road bicycle uses elements introduced by Tom Ritchey.

Today, Tom Ritchey still lives with his family in the hills above Palo Alto. He still designs and builds bicycles acclaimed for their distinctive quality, but most important, continues to dream and design new bicycles and components for tomorrow. RITCHEY MOUNTAIN BIKES: The Evolution Continues...

## 2/THE BUILDER

TOM RITCHEY is acknowledged as one of the world's finest builders. He is responsible for pioneering, developing, and popularizing the technique of lug-less fillet brazing. Ritchey has built frames, handlebars, and stems for thousands of racing, touring, tandem, and mountain bikes in more than fifteen years of framebuilding, including the most balloon tire bicycles made by any domestic custom builder.

Years of development in technique and tooling by Ritchey has enabled him to be the most prolific builder in the industry while continually improving the quality of his framesets.

When you buy a fillet brazed RITCHEY, you ride the creation of Tom Ritchey. Every single perfectly radiused joint, every braze-on fitting, every dropout has been brazed by Tom himself. Two assistants work closely with Tom preparing and finishing framesets and handlebars.

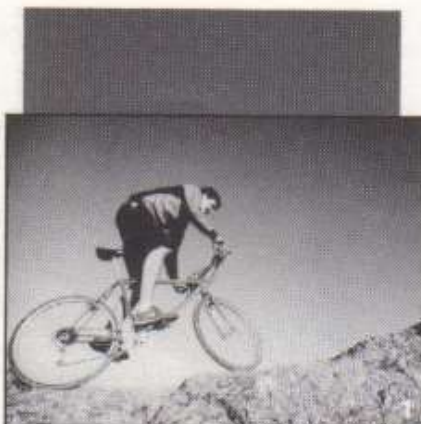
Quality and reputation are areas jealously guarded by Tom Ritchey, and that will never change.

A new dimension for RITCHEY bicycles began in 1985 with the introduction of the ASCENT. With a hand-crafted TIG welded frameset, it was the first bicycle to bear the RITCHEY name without being personally manufactured by Tom Ritchey himself. Several years of design, research, and testing were carried out before the RITCHEY decal could be applied to the most affordable RITCHEY yet.

Two new models have been introduced in 1986, the ASPEN and ULTRA, but that doesn't mean you'll see a RITCHEY on every street corner. In fact, we purposely chose an experienced builder with limited production capacity. Believe it, this is not another generic mountain bike with a name plastered on it. The ASPEN, ASCENT, and ULTRA remain consistent with the RITCHEY tradition, giving you high quality at a value packed price. Find a RITCHEY and prove it to yourself ... Riding is believing!

## 3/THE DESIGNER

Since 1978, TOM RITCHEY'S original designs have been incorporated into the mountain bike industry. TWINSTRUT handlebars, unicrown forks, oversized tubing, slotted cable guides, and 130mm spacing are only a few examples. Key frame design features introduced by Tom Ritchey are reinforced seat collars, ovalized seat tube at the bottom bracket, and single bend chainstays. These innovations and Tom Ritchey's individual control over every frameset means a line of bicycles that continue to set an unequalled standard





in the industry. Tom Ritchey also leads the way in the field of frame geometry. Years of racing, touring, building, and engineering experience have brought the original RITCHEY MOUNTAIN BIKE designs from 70° seat and 68° head angles to the current standards. Over the years, seat angles have progressed on RITCHEY framesets to the new 73° and 74° angles. As a result, riders are positioned further forward to approximate the position of a road racing bicycle. The rear triangle has been tightened up to make for a rigid design that gives positive acceleration and climbing. Head angles have been increased to 69°, keeping the RITCHEY trademark of sure-footed control on all types of terrain. This head angle plus a fork rake of 1.8" ensure stable tracking without compromising handling performance.

While some builders have experimented with variation in angles and geometry which require extraordinary skill in staying upright, Tom Ritchey's geometry is still the perfect balance of performance and control. Geometry has been a controversial subject in mountain bikes regarding its theory and function. Since the introduction of the TEAM COMP in 1983, the "RITCHEY" geometry has been largely accepted by importers and high-end domestic builders alike. If imitation is the highest form of flattery, Tom Ritchey acknowledges it, while at the same time developing new designs and products that distance him from the competition.

RITCHEY designs are based on a sound knowledge of industry experience, along with a respect for the history of bicycles. The RITCHEY designs of the eighties fulfill the needs of modern cyclists without ignoring the lessons of one hundred years of bicycle construction.

#### 4/RITCHEY FRAME TUBING

How can steel tubing be used to manufacture a frame as light as most aluminum versions?

The answer for Tom Ritchey lies in many years of collaboration with the world's leading frame tubing manufacturers: TANGE and COLUMBUS. The result is Tom Ritchey's unique selection of tubing sets.

Years of testing and development have gone into the creation of a perfect blend of tubing for each of the nine different RITCHEY bicycle models.

Many bicycle manufacturers are merely satisfied with the standard tubing sets offered by tubing makers. Often, tubes are too heavy or too light for each application, creating poorly balanced or inappropriate framesets. A painstaking analysis of gauge, tapers, butting, and diameters was needed to arrive at the final product. TOM RITCHEY 4130 double butted chromoly tubing is used in 7 models, with variations in fork blades, down tubes, steering columns, and seat stays based on the intended use and size of each frameset.

COLUMBUS RITCHEY DESIGN OR tubing is a further refinement of COLUMBUS SP double butted tubing used since 1983 on the TEAM COMP. The TEAM COMP has served duty in an ongoing test of new materials, most recently with the new TANGE PRESTIGE tubing. A superlight, heat-treated, over-size version of PRESTIGE will be used in the new ULTRA.

The heart of the bicycle is in the frameset, and quality of its construction is critical. Tom Ritchey goes the extra step to guarantee the best choice of materials for each and every RITCHEY bicycle.

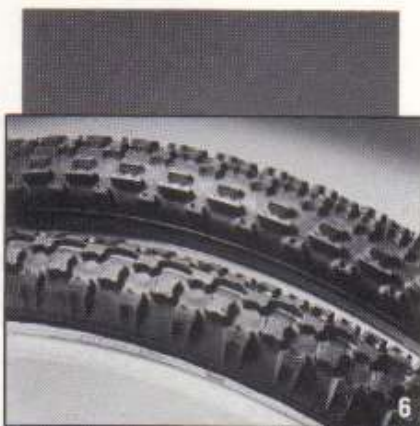
#### 5/PAINTING

When it came time to select the finish for RITCHEY built bicycles and framesets, the choice was easy. The standard by which all paint finishes are compared to is DUPONT IMRON. It is a polyurethane coating that is one of the most difficult to apply, yet one of the most durable finishes made. It has earned the reputation as "the wet look that lasts". The high lustre look, available in a wide selection of metallic and primary colors gives the final touch to our (and we hope your) pride and joy.





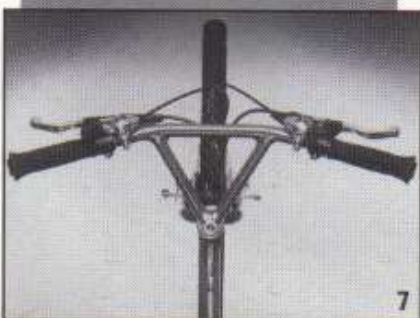
# The Full Story...



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## 6/RITCHEY TIRES

Since its introduction in 1985, the RITCHEY QUAD 1.9 has redefined the mountain bike tire. The new width has become the industry standard for optimum size and volume. The unique GripStrip center ridge is quiet and smooth rolling on the street, and the Quad lug pattern makes it sure-footed in the dirt.



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New for 1986 is the FORCE KEVLAR, designed for the competitive off-road rider. Its profile, tread pattern, and light weight make it the choice for the racer. Separated Quad lugs in the center give optimal rolling efficiency approximating that of the QUAD tire. Three rows of carefully spaced Force Directional knobs give the best sideways bite under all braking and turning conditions. With the introduction of Kevlar, the FORCE KEVLAR is the lightest true all-terrain tire available (600 grams), nearly 1 pound lighter per pair than its closest competitor.



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Another example of how Tom Ritchey continues to set the definition on Mountain Bikes.

For more information see page 15.

## 7/TWINSTRUT HANDLEBARS

TWINSTRUT is as synonymous with mountain bikes as Tom Ritchey. Ritchey's original design remains the strongest and most reliable handlebar for off-road bicycles due to its ingenious triangulated design. Specifications in height, reach, and triangle have been altered over the years so that seven different versions are available to suit every rider's size, weight, and riding style.



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**MODEL I:** A very strong handlebar for touring and training at a great value. TIG welded, RITCHEY designed TWINSTRUT of chromoly steel.

Available in high or standard rise, silver or black anodized finish.

**MODEL II:** A strong, lightweight handlebar for competition, training or touring. TIG welded, RITCHEY designed TWINSTRUT of heat treated duraluminum.

Available in high or standard rise, silver or black anodized finish.

**MODEL III:** The ultimate in quality and the original version of the TWINSTRUT. A beautiful complement to any quality mountain bike.

Hand fillet brazed by Tom Ritchey, using chromoly 4130 tubing. Available in high or low rise, and in most DUPONT IMRON colors. Note: A RITCHEY double expander must be used to fit to your bicycle.

**MODEL III: COMP** Competition version of the MODEL III. The lightest steel TWINSTRUT handlebars for the racer.

Hand fillet brazed by Tom Ritchey, using chromoly 4130 tubing.

Available in low rise only, and in most DUPONT IMRON colors. Due to the extremely lightweight material used, these TWINSTRUT handlebars are recommended for competition use by experienced riders only.

	REACH	RISE	WIDTH
MODEL I (STD)	45	3.2	235
MODEL I (H)	45	5.6	235
MODEL II (STD)	50	2.75	235
MODEL II (H)	45	4.5	235
MODEL III (LO)	63	1.5	24
MODEL III (H)	55	3.4	24
MODEL III COMP (LO)	68	1.4	22.5



## 8/RITCHEY SOFTGRIPS

Tom Ritchey collaborated with one of America's leading grip manufacturer's to produce the unique RITCHEY SOFTGRIP.

The grip combines comfort and long wear, two seemingly opposite functions. The compound was chosen from hundreds of options to provide a grip that is soft to the touch, giving superior comfort while riding over jarring surfaces and down bone-shaking descents. The high density of the material makes the RITCHEY SOFTGRIP extremely resistant to wear. The grip is also highly impervious to drying and cracking from UV rays and doesn't blacken your hands in wet or dry conditions. It's another creative solution which makes riding your RITCHEY the most fun you've ever had on two wheels!

## 9/WHO RIDES THEM

When you choose a RITCHEY, you join the ranks of many celebrities, film stars, and top athletes who recognize the finest quality when they see it. More important, bicycle industry leaders like Andreas Cinelli and Antonio Columbo have selected RITCHEY for their personal mountain bike. It's not commonly known, but JOE MURRAY began his successful racing career on a TEAM COMP. Even ERIC HEIDEN and JACQUES BOYER chose RITCHEY for their off-season training bike before joining the RITCHEY Mountain Bikes team.

## 10/RACING TEAM

The RITCHEY racing team remains one of our most valuable assets. Led by MAX JONES of Lake Tahoe, California, and STEVE COOK of Crested Butte, Colorado, this successful team continues to win and contend with the leaders in major off-road events. The feedback received from the team is used in the analysis of what works and what should be discarded. New frame and component designs either make it or break at this level.

Watch for the red, white, and blue RITCHEY jersey at the front!

## 11/T-SHIRTS & WATER BOTTLES

RITCHEY 100% cotton t-shirts feature the TR logo, "hand made by Tom Ritchey" design, and the puff print Quad tire track. Available in sizes from small to extra large, and in a variety of colors, we hope you'll find one to suit your style.

Quality RITCHEY bottles by SPECIALIZED are available too... in white, red, yellow, blue, grey, and pink.

## 12/THE RITCHEY COMPANY

We have a saying at RITCHEY MOUNTAIN BIKES: "Quality is not just the quality of the product, but the quality of the whole company". The RITCHEY staff is proud to work for one of the most recognized names in the industry. Of course, we are cyclists, too, with a collective experience of over sixty years in the industry. Whether it's a bike to pack, a dealer asking for technical information, or a customer asking for our dealer locations, we make sure it's done correctly, quickly, and efficiently.

## 13/THE STATE OF THE ART

A fine bicycle is more than a collection of components. It is the ride that is the sum of its elements. When you are ready to experience the state of the art, ride a RITCHEY. There is nothing like it.

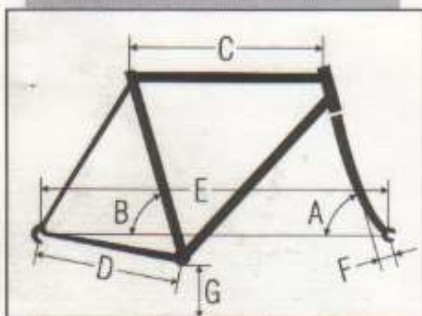
## 14/WARRANTY

Every RITCHEY frameset and handlebar is guaranteed for the life of the original owner to be free of defects in workmanship. Due to the nature of off-road riding, any material can and will bend under extreme loading. Riders choosing TEAM COMP and ULTRA bicycles or Ultra-light TWINSTRUT handlebars should do so with care, taking into consideration their own expertise and knowledge of bicycles.





# Team Comp



FRAME SIZE	A	B	C	D	E	F	G
18	69°	74°	22	17.0	42.1	1.8	11.5
19	69°	74°	22.3	17.0	42.4	1.8	11.5
20	69°	74°	22.7	17.0	42.8	1.8	11.5
21	69°	74°	23	17.0	43.1	1.8	11.5
22	69°	74°	23.3	17.0	43.4	1.8	11.5
23	69°	74°	23.7	17.0	43.8	1.8	11.5

**T**he TEAM COMP has been a winner since its introduction at the 1983 Rockhopper race. In that event, the first 5 places were captured by this revolutionary off-road design. Built with TOM RITCHEY'S specially designed competition tube set, the TEAM COMP has been a design often imitated, but never equalled. The seat tube has a 74° angle, giving the competitive rider a position similar to a road racing position. The head angle is 69°, allowing full control in any situation. In short, a perfect balance of handling and acceleration capabilities. This is a bicycle without compromise. Only the finest components were selected, including hand fillet brazed TWIN-STRUT handlebar, SUNTOUR XC Comp pedals and seatpost, DURA-ACE quick release hub, WHEELSMITH spokes, ARAYA RM 20 rims, and the new RITCHEY FORCE 1.9 tire. Six sizes from 18" to 23" are available in DUPONT IMRON Team Red. An exact replica of the machine used by the successful RITCHEY Mountain Bikes Team, including STEVE COOK and MAX JONES, we consider the TOM RITCHEY built TEAM COMP our signature model. If you're looking for an invigorating competition bicycle, the TEAM COMP is for you. ●



## RITCHEY TEAM COMP™ SPECIFICATIONS

<b>FRAME</b>	Designed and Built by TOM RITCHEY, using RITCHEY COLUMBUS Double Butted Chrome Molybdenum or TANGE PRESTIGE OR Road Tubing.
<b>FORK</b>	Designed and Built by TOM RITCHEY, using RITCHEY 4130 Chrome Molybdenum UNIFORK Blades.
<b>BRAZE-ONS</b>	Double Water Bottle Bosses, Special Slotted Cable Stops and Guides, Cantilever Bosses Front and Rear, Dropout Eyelets Front and Rear. Additional Braze-On Options Available.
<b>HANDLEBAR</b>	Designed and Built by TOM RITCHEY, Model III Chromoly TWINSTRUT with RITCHEY Double Expander.
<b>SADDLE</b>	SPECIALIZED Delta.
<b>SEATPOST</b>	SUNTOUR XC 300mm.
<b>SEATPOST BOLT</b>	SUNTOUR OR-17Q.
<b>HEADSET</b>	SHIMANO 600 EX.
<b>BOTTOM BRACKET</b>	SHIMANO 600 EX Sealed with Chromoly Axle.
<b>CRANKSET</b>	SHIMANO 600 EX Triple, 48/36/28. Crank Length matched to Frame Size.
<b>PEDALS</b>	SUNTOUR XC COMP.
<b>REAR DERAILLEUR</b>	SHIMANO DEORE XT.
<b>FRONT DERAILLEUR</b>	SHIMANO DEORE XT.
<b>SHIFT LEVERS</b>	SHIMANO DEORE XT.
<b>BRAKES</b>	SHIMANO DEORE XT Cantilevers.
<b>BRAKE LEVERS</b>	MAGURA "Shorty" with Covers.
<b>HUBS</b>	SHIMANO NEW DURA-ACE Low Flange Quick Release Cassette 6 Speed.
<b>RIMS</b>	ARAYA RM 20.
<b>SPOKES</b>	WHEELSMITH 14G Stainless.
<b>TIRES</b>	RITCHEY FORCE 1.9.
<b>CHAIN</b>	SHIMANO UNIGLIDE.
<b>WEIGHT</b>	26 lbs.
<b>SIZES</b>	18", 19", 20", 21", 22", 23". (Center to Top)
<b>COLOR</b>	TEAM RED.

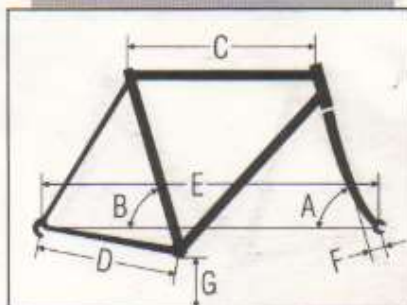


# ULTRA

The newest in a series of competition bicycles from TOM RITCHEY, the ULTRA is a startling blend of new technology and exciting aesthetic appeal. The TIG welded frameset is handcrafted with the new ultra-light TANGE PRESTIGE tubing, giving you the weight of an aluminum bike with the characteristic positive response of chromoly steel. The ULTRA uses the RITCHEY racing geometry of the TEAM COMP with a 74° seat angle and a 69° head angle. This is a hybrid machine designed for experienced riders who demand a first class bicycle. The ULTRA delivers excitement on all types of surfaces with the same component group as the TEAM COMP, black anodized wherever possible. Combined with a pearlescent white frame and fork, the look is lightweight, clean, and mean. Sizing is from 17" through 21.5" on this dynamic addition to the complete line of RITCHEY performance mountain bikes. ●



FRAME SIZE	A	B	C	D	E	F	G
17	69°	73°	21.5	17.4	41.8	2.0	11.5
18.5	69°	73°	22	17.4	42.3	2.0	11.5
20	69°	73°	22.5	17.4	42.8	2.0	11.5
21.5	69°	73°	23	17.4	43.3	2.0	11.5
23	69°	73°	23.5	17.4	43.8	2.0	11.5

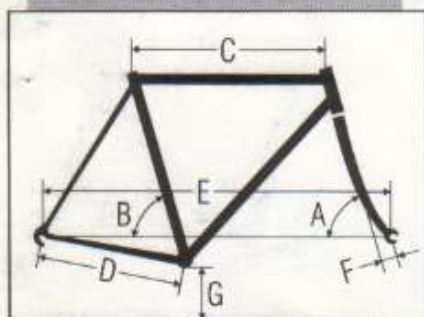


## RITCHEY ULTRA™/SPECIFICATIONS

<b>FRAME</b>	Designed by TOM RITCHEY, built using TANGE PRESTIGE Heat-Treated Chrome Molybdenum Frame Tubing.
<b>FORK</b>	Designed by TOM RITCHEY, built using RITCHEY 4130 Chrome Molybdenum UNIFORK Blades.
<b>BRAZE-ONS</b>	Double Water Bottle Bosses, Special Slotted Cable Stops and Guides, Front Cantilever Bosses, Rear "Roller Cam" Bosses, Dropout Eyelets Front and Rear.
<b>HANDLEBAR</b>	RITCHEY Design Model II Black Alloy Heat-Treated TWINSTRUT.
<b>SADDLE</b>	SPECIALIZED Delta.
<b>SEATPOST</b>	SUNTOUR XC 300mm.
<b>HEADSET</b>	SHIMANO 600 EX.
<b>BOTTOM BRACKET</b>	SHIMANO 600 EX Sealed with Chromoly Axle.
<b>CRANKSET</b>	SHIMANO 600 EX Triple, 48/38/28, Crank Length matched to Frame Size, Black Arms/Silver Rings.
<b>PEDALS</b>	SUNTOUR XC Comp Black, Toe Clips and Straps.
<b>REAR DERAILLEUR</b>	SHIMANO DEORE XT.
<b>FRONT DERAILLEUR</b>	SHIMANO DEORE XT.
<b>SHIFT LEVERS</b>	SHIMANO DEORE XT Black.
<b>BRAKES</b>	SHIMANO DEORE XT Black Front Cantilever, SUNTOUR XC SPORT "Roller Cam" Black on Chainstays.
<b>BRAKE LEVERS</b>	SUNTOUR XC SPORT.
<b>HUBS</b>	SHIMANO NEW DURA-ACE Low Flange Quick Release Cassette 6 Speed.
<b>RIMS</b>	ARAYA RM 20 Black.
<b>SPOKES</b>	WHEELSMITH 14G Stainless.
<b>TIRES</b>	RITCHEY QUAD 1.9.
<b>FREEWHEEL</b>	SHIMANO Cassette 12-28 6 Speed.
<b>CHAIN</b>	SHIMANO UNIGLIDE.
<b>WEIGHT</b>	25.5 lbs.
<b>SIZES</b>	17", 18.5", 20", 21.5", (Center to Top)
<b>COLOR</b>	PEARL WHITE With Black Twinstrut Handlebar.



# TimberWolf



FRAME SIZE	A	B	C	D	E	F	G
17/24	69°	73°	20	17.0	40.2	2.0	11.5
17/26	69°	73°	21.5	17.4	41.8	2.0	11.5
18	69°	73°	22	17.4	42.3	2.0	11.5
19	69°	73°	22	17.4	42.3	2.0	11.5
20	69°	73°	22.5	17.4	42.8	2.0	11.5
21.5	69°	73°	23	17.4	43.3	2.0	11.5
23	69°	73°	23.5	17.4	43.8	2.0	11.5
24	69°	73°	24	17.4	44.3	2.0	11.5
25	69°	73°	24.5	17.4	44.8	2.0	11.5

**T**he TIMBERWOLF is a go-anywhere, challenge-anything type of Mountain Bike. As our entry level handbuilt, it exemplifies the original spirit of off-road riding and points to its future. The frame and fork are hand fillet brazed by TOM RITCHEY using RITCHEY 4130 chromoly double butted tubing. The modern geometry utilizes a comfortable yet positive 73° seat angle combined with a 69° seat angle that guarantees sure-footed stability. The component group is carefully selected from SHIMANO, SUNTOUR, and SPECIALIZED, with wheels featuring WHEELSMITH spokes and the RITCHEY QUAD 1.9 tire. Available in 8 sizes from the compact 17" frame/24" wheel to 25", and 4 choices of DUPONT IMRON colors, the TIMBERWOLF is the type of satisfying choice that will make you a proud RITCHEY owner for many years to come. ●



## RITCHEY TIMBERWOLF™/SPECIFICATIONS

### FRAME FORK BRAZE-ONS

### HANDLEBAR SADDLE SEATPOST SEATPOST BOLT HEADSET BOTTOM BRACKET CRANKSET PEDALS REAR DERAILLEUR FRONT DERAILLEUR SHIFT LEVERS BRAKES BRAKE LEVERS HUBS RIMS SPOKES TIRES FREEWHEEL CHAIN WEIGHT SIZES COLOR

Designed and Built by TOM RITCHEY, using RITCHEY Double Butted 4130 Chrome Molybdenum Frame Tubing.  
Designed and Built by TOM RITCHEY, using RITCHEY 4130 Chrome Molybdenum UNIFORK Blades.  
Double Water Bottle Bosses, Special Slotted Cable Stops and Guides, Cantilever Bosses Front and Rear, Dropout Eyelets Front and Rear. Additional Braze-On Options Available.  
RITCHEY Design Model I Chromoly TWINSTRUT.  
SPECIALIZED Lambda.  
STRONG 260mm.  
SUNTOUR QR-170.  
SHIMANO 600 EX.  
SPECIALIZED Sealed with Chromoly Axle.  
SPECIALIZED ST-2 Triple, 46/36/26. Crank Length matched to Frame Size.  
SUNTOUR XC "Bearpaw".  
SHIMANO DEORE XT.  
SHIMANO DEORE XT.  
SHIMANO DEORE XT.  
SHIMANO DEORE XT.  
MAGURA "Sheryl".  
SUNTOUR XC Sealed.  
ARAYA RM 25, 26 X 1.75.  
WHEELSMITH 14G Stainless.  
RITCHEY QUAD 1.9.  
SHIMANO NEW 600 EX 13-28 6 Speed.  
SHIMANO UNIGLIDE.  
27 lbs.  
17/24", 17/26", 18", 19", 20", 21.5", 23". OPTION: 24", 25". (Center to Top)  
MEDIUM RICH BLUE METALLIC, MEDIUM JADE GREEN METALLIC, FIRETHORNE RED METALLIC, SLATE GREY METALLIC. OPTION: Most Dupont Imron Metallic Colors.

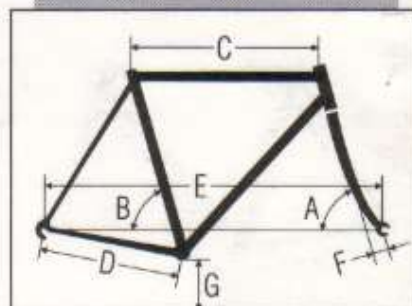


# aspén

**A**fter more than two years of design, research, and testing, RITCHEY Mountain Bicycles are becoming more affordable than ever. The ASPEN is the first in a series of performance TIG welded bicycles designed to give you maximum value. Using geometry of 73° seat, 69° head angle, and RITCHEY 4130 double butted chromoly tubing, the ASPEN is carefully handcrafted to our exacting standards. Components have been selected from SHIMANO, SUNTOUR, and SR to provide an excellent touring/racing crossover bicycle. Finished in Jade Green Metallic or Light Continental Blue with matching chromoly TWINSTRUT handlebars, the ASPEN is available in 5 sizes from 17" to 23". The ASPEN: be a part of the RITCHEY tradition at a down-to-earth price. ●



FRAME SIZE	A	B	C	D	E	F	G
17	69°	73°	21.5	17.4	41.8	2.0	11.5
18.5	69°	73°	22	17.4	42.3	2.0	11.5
20	69°	73°	22.5	17.4	42.8	2.0	11.5
21.5	69°	73°	23	17.4	43.3	2.0	11.5
23	69°	73°	23.5	17.4	43.8	2.0	11.5

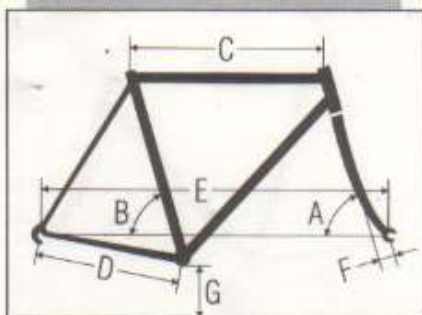


## RITCHEY ASPEN™/SPECIFICATIONS

<b>FRAME</b>	Designed by TOM RITCHEY, built using RITCHEY Double-Butted 4130 Chrome Molybdenum Frame Tubing.
<b>FORK</b>	Designed by TOM RITCHEY, built using RITCHEY 4130 Chrome Molybdenum UNIFORK Blades.
<b>BRAZE-ONS</b>	Double Water Bottle Bosses, Rear Rack, Special Slotted Cable Stops and Guides, Cantilever Bosses Front and Rear, Dropout Eyelets Front and Rear.
<b>HANDLEBAR</b>	RITCHEY Design Model I Chromoly TWINSTRUT. Painted to match Frameset.
<b>SADDLE</b>	SPECIALIZED Lambda.
<b>SEATPOST</b>	STRONG 260mm.
<b>SEATPOST BOLT</b>	SUNTOUR QR-170.
<b>HEADSET</b>	TANGE LEVIN Sealed.
<b>BOTTOM BRACKET</b>	SAKAE SR FX Sealed with Chromoly Axle.
<b>CRANKSET</b>	SAKAE SR FX Triple 48/38/28. Crank Length matched to Frame Size.
<b>PEDALS</b>	SUNTOUR XC-2 "Bearpaw".
<b>REAR DERAILLEUR</b>	SHIMANO "Light Action" Long Arm.
<b>FRONT DERAILLEUR</b>	SHIMANO DEORE XT.
<b>SHIFT LEVERS</b>	SHIMANO DEORE XT.
<b>BRAKES</b>	SHIMANO DEORE XT.
<b>BRAKE LEVERS</b>	SUNTOUR SPORT XC.
<b>HUBS</b>	SUNTOUR XC Sealed Quick Release.
<b>RIMS</b>	ARAYA RM 20, 26 X 1.50.
<b>SPOKES</b>	WHEELSMITH 14G Stainless.
<b>TIRES</b>	RITCHEY QUAD 1.9.
<b>FREEWHEEL</b>	SHIMANO UNIGLIDE 13-28 6 Speed.
<b>WEIGHT</b>	26.5 lbs.
<b>COLOR</b>	JADE GREEN METALLIC/CONTINENTAL BLUE METALLIC
<b>SIZES</b>	17", 18.5", 20", 21.5", 23" (Center to Top)



# timbercomp



FRAME SIZE	A	B	C	D	E	F	G
17/24	69°	73°	20	17.0	40.2	2.0	11.5
17/26	69°	73°	21.5	17.4	41.8	2.0	11.5
18	69°	73°	22	17.4	42.3	2.0	11.5
19	69°	73°	22	17.4	42.3	2.0	11.5
20	69°	73°	22.5	17.4	42.8	2.0	11.5
21.5	69°	73°	23	17.4	43.3	2.0	11.5
23	69°	73°	23.5	17.4	43.8	2.0	11.5
24	69°	73°	24	17.4	44.3	2.0	11.5
25	69°	73°	24.5	17.4	44.8	2.0	11.5



## RITCHEY TIMBERCOMP™/SPECIFICATIONS

<b>FRAME</b>	Designed and Built by TOM RITCHEY, using RITCHEY Double Butted 4130 Chrome Molybdenum Frame Tubing.
<b>FORK</b>	Designed and Built by TOM RITCHEY, using RITCHEY 4130 Chrome Molybdenum UNIFORK Blades.
<b>BRAZE-ONS</b>	Double Water Bottle Bosses, Special Slotted Cable Stops and Guides, Front Cantilever Bosses, Rear "Roller Cam" Bosses, Dropout Eyelets Front and Rear. Additional Braze-On Options Available.
<b>HANDLEBAR</b>	RITCHEY Design Model II Alloy Heat-Treated TWINSTRUT.
<b>SADDLE</b>	SPECIALIZED Lambda.
<b>SEATPOST</b>	STRONG 260mm.
<b>SEATPOST BOLT</b>	SUNTOUR QR-170.
<b>HEADSET</b>	SHIMANO 600 EX.
<b>BOTTOM BRACKET</b>	SPECIALIZED Sealed with Chromoly Axle.
<b>CRANKSET</b>	SPECIALIZED ST-2 Triple 46/36/26. Crank Length matched to Frame Size.
<b>PEDALS</b>	SUNTOUR XC-2 "Bearpaw".
<b>REAR DERAILLEUR</b>	SHIMANO DEORE XT.
<b>FRONT DERAILLEUR</b>	SHIMANO DEORE XT.
<b>SHIFT LEVERS</b>	SHIMANO DEORE XT.
<b>BRAKES</b>	SHIMANO DEORE XT Front Cantilever. SUNTOUR XC SPORT "Roller Cam" on Chainstays.
<b>BRAKE LEVERS</b>	MAGURA "Shorty".
<b>HUBS</b>	SHIMANO NEW DURA-ACE Low Flange Quick Release Cassette 6 Speed.
<b>RIMS</b>	ARAYA RM 20.
<b>SPOKES</b>	WHEELSMITH 14G Stainless.
<b>TIRES</b>	RITCHEY QUAD 1.9.
<b>FREEWHEEL</b>	SHIMANO Cassette 12-28 6 Speed.
<b>CHAIN</b>	SHIMANO UNIGLIDE.
<b>WEIGHT</b>	26.5 lbs.
<b>SIZES</b>	17/24", 17/26", 18", 19", 20", 21.5", 23", OPTION: 24", 25". (Center to Top)
<b>COLOR</b>	MEDIUM RICH BLUE METALLIC, MEDIUM JADE GREEN METALLIC, SEMINOLE RED METALLIC, SLATE GREY METALLIC. OPTION: Most Dupont Imron Metallic Colors.

Using TIMBERWOLF frame tubing and geometry, the TIMBERCOMP is a rugged race/tour crossover bicycle that's hard to beat. Hand fillet brazed by TOM RITCHEY with RITCHEY 4130 chromoly double-butt tubing, the tough frameset can handle the challenge of a hard rider on rough terrain. The component group is full race: SPECIALIZED crankset, MAGURA brake levers, SUNTOUR roller cam rear brakes, and DURA-ACE cassette hubs on ARAYA RM 20 rims with WHEELSMITH spokes and RITCHEY QUAD 1.9 tires. With sizing the same as the TIMBERWOLF, and available in your choice of 4 DUPONT IMRON colors, the TIMBERCOMP takes to the wilds and delivers you full performance! ●



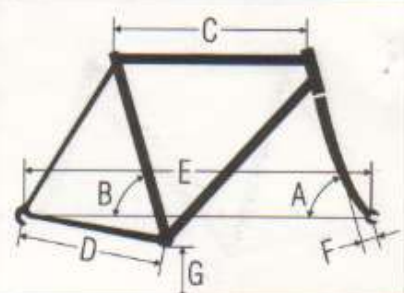
# Ascent

**T**he fire red paint topped with black UNIFORK and TWINSTRUT handlebar gives the ASCENT away.

This is a racing machine with top notch components and a proven design. Like the ASPEN, it is a TOM RITCHEY designed TIG welded frame using RITCHEY 4130 chromoly double-butted tubing. The competition geometry gives you a seat angle of 73° and a head angle of 69° to provide the best in performance and stability. CYCLIST magazine called the ASCENT "light, quick, and responsive ... an exceptionally efficient climber". The component group is a no-compromise selection of SHIMANO and SUNTOUR featuring DURA-ACE cassette quick release hubs, ARAYA RM 20 rims, heat treated alloy TWINSTRUT handlebar and SUNTOUR rear roller cam brakes mounted on the chain stays. The RITCHEY Evolution Continues with the ASCENT, a sleek combination of smoothness and power at a value-packed price! ●



FRAME SIZE	A	B	C	D	E	F	G
17	69°	73°	21.5	17.4	41.8	2.0	11.5
18.5	69°	73°	22	17.4	42.3	2.0	11.5
20	69°	73°	22.5	17.4	42.8	2.0	11.5
21.5	69°	73°	23	17.4	43.3	2.0	11.5
23	69°	73°	23.5	17.4	43.8	2.0	11.5



## RITCHEY ASCENT™/SPECIFICATIONS

### FRAME

Designed by TOM RITCHEY, built using RITCHEY Double Butted 4130 Chrome Molybdenum Frame Tubing.

### FORK

Designed by TOM RITCHEY, built using RITCHEY 4130 Chrome Molybdenum UNIFORK Blades.

### BRAZE-ONS

Double Water Bottle Bosses, Special Slotted Cable Stops and Guides. Front Cantilever Bosses, Rear "Roller Cam" Bosses, Dropout Eyelets Front and Rear.

### HANDLEBAR

RITCHEY Design Model II Black Alloy Heat-Treated TWINSTRUT.

### SADDLE

SPECIALIZED Lambda.

### SEATPOST

STRONG 260mm.

### SEATPOST BOLT

SUNTOUR QR-170.

### HEADSET

SHIMANO 600 EX.

### BOTTOM BRACKET

SHIMANO 600 EX Sealed with Chromoly Axle.

### CRANKSET

SHIMANO 600 EX Triple. 48/38/28. Crank Length matched to Frame Size.

### PEDALS

SUNTOUR XC-2 "Bearpaw".

### REAR DERAILLEUR

SHIMANO DEORE XT.

### FRONT DERAILLEUR

SHIMANO DEORE XT.

### SHIFT LEVERS

SHIMANO DEORE XT.

### BRAKES

SHIMANO DEORE XT Front Cantilever, SUNTOUR XC SPORT "Roller Cam" on Chainstays.

### BRAKE LEVERS

SUNTOUR XC SPORT.

### HUBS

SHIMANO NEW DURA-ACE Low Flange Quick Release Cassette 6 Speed.

### RIMS

ARAYA RM 20.

### SPOKES

WHEELSMITH 14G Stainless.

### TIRES

RITCHEY QUAD 1.9.

### FREEWHEEL

SHIMANO Cassette 12-28 6 Speed.

### CHAIN

SHIMANO UNIGLIDE.

### WEIGHT

26 lbs.

### SIZES

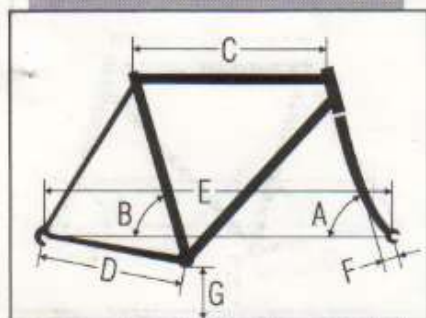
17", 18.5", 20", 21.5", 23". (Center to Top)

### COLOR

FIRE RED With BLACK Unifork and Twinstrut Handlebar.



# Commando



FRAME SIZE	A	B	C	D	E	F	G
17/24	69°	73°	20	17.0	40.2	2.0	11.5
17/26	69°	73°	21.5	17.4	41.8	2.0	11.5
18	69°	73°	22	17.4	42.3	2.0	11.5
19	69°	73°	22	17.4	42.3	2.0	11.5
20	69°	73°	22.5	17.4	42.8	2.0	11.5
21.5	69°	73°	23	17.4	43.3	2.0	11.5
23	69°	73°	23.5	17.4	43.8	2.0	11.5
24	69°	73°	24	17.4	44.3	2.0	11.5
25	69°	73°	24.5	17.4	44.8	2.0	11.5



## RITCHIEY COMMANDO™/SPECIFICATIONS

### FRAME

Designed and Built by TOM RITCHIEY, using RITCHIEY Double-Butted 4130 Chrome Molybdenum Frame Tubing.

### FORK

Designed and Built by TOM RITCHIEY, using RITCHIEY 4130 Chrome Molybdenum UNIFORK Blades.

### BRAZE-ONS

Double Water Bottle Bosses, Rear Rack, Low Rider, Front and Rear Fender Bosses, Special Slotted Cable Stops and Guides, Front and Rear Cantilever Bosses, Dropout Eyelets Front and Rear.

### HANDLEBAR

RITCHIEY Design Model I Black Chromoly TWINSTRUT.

### SADDLE

SPECIALIZED Lambda.

### SEATPOST

STRONG 260mm.

### SEATPOST BOLT

SUNTOUR QR-170.

### HEADSET

SHIMANO 600 EX.

### BOTTOM BRACKET

SHIMANO 600 EX Sealed with Chromoly Axle.

### CRANKSET

SHIMANO 600 EX Triple, Black Arms and Chainrings. 48/38/28. Crank Length matched to Frame Size.

### PEDALS

SUNTOUR XC-2 "Bearpaw".

### REAR DERAILLEUR

SHIMANO DEORE XT.

### FRONT DERAILLEUR

SHIMANO DEORE XT.

### SHIFT LEVERS

SHIMANO DEORE XT Black.

### BRAKES

SHIMANO DEORE XT Black Cantilevers.

### BRAKE LEVERS

MAGURA "Shorty" Black.

### HUBS

SUNTOUR XC Sealed.

### RIMS

ARAYA RM 25 Black.

### SPOKES

WHEELSMITH 14G Stainless.

### TIRES

RITCHIEY QUAD 1.9.

### FREEWHEEL

SHIMANO 600 EX 13-28 6 Speed.

### CHAIN

SHIMANO UNIGLIDE.

### WEIGHT

28 lbs.

### SIZES

17/24", 17/26", 18", 19", 20", 21.5", 23", OPTION: 24", 25" (Center to Top)

### COLOR

CAMOUFLAGE.

### ACCESSORY

JUNGLE DESIGNS Carry Strap.

**T**he COMMANDO is built with adventure in mind. It's a get-away machine with every conceivable braze-on, including water bottles, racks, low riders, fenders and portage carry strap. This off-road expedition vehicle is topped off with a camouflage paint job and black anodized SHIMANO and SUNTOUR component group, creating a wilderness feeling that's irresistible. The COMMANDO will inspire you to challenge the outdoors in your neighborhood or around the world. Fully hand fillet brazed by TOM RITCHIEY using RITCHIEY 4130 double-buttressed chromoly tubing, it's another example of a RITCHIEY that defines the state of the art in mountain bikes. ●

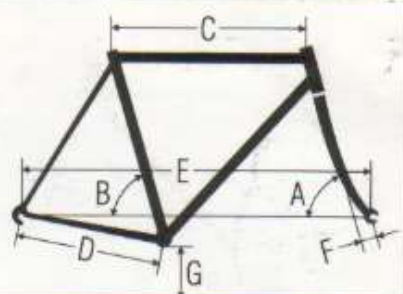


# Annapurna

**T**here is hand built and then there is the ANNAPURNA. A limited edition, exquisitely finished frameset built with RITCHEY 4130 double butted chromoly tubing, the ANNAPURNA is the ultimate creation of a one in a thousand master of the torch. Bicycling Magazine called it "one of the 2 or 3 prettiest at any price ... there is no disputing the superiority of the ANNAPURNA's framework or finish". Artfully sculpted head and down tube reinforcing sleeves highlight the beauty and elegance of the ANNAPURNA. Most DUPONT IMRON colors are available to satisfy your personal taste. A carefully selected component group with SHIMANO, SUNTOUR, and MAGURA components finish a bicycle that is joy to own and a pleasure to ride. ●



FRAME SIZE	A	B	C	D	E	F	G
19	69°	73°	22	17.4	42.3	2.0	11.5
20	69°	73°	22.5	17.4	42.8	2.0	11.5
21	69°	73°	23	17.4	43.3	2.0	11.5
22	69°	73°	23	17.4	43.3	2.0	11.5
23	69°	73°	23.5	17.4	44.3	2.0	11.5
24	69°	73°	24	17.4	44.8	2.0	11.5
25	69°	73°	24.5	17.4	44.8	2.0	11.5



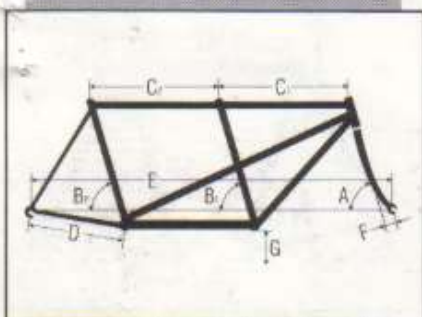
## RITCHEY ANNAPURNA™ / SPECIFICATIONS

<b>FRAME</b>	Designed and Built by TOM RITCHEY, using RITCHEY Double-Butted Chrome Molybdenum Frame Tubing.
<b>FORK</b>	Designed and Built by TOM RITCHEY, using RITCHEY 4130 Chrome Molybdenum UNIFORK Blades.
<b>BRAZE-ONS</b>	Double Water Bottle Bosses, Special Slotted Cable Stops and Guides. Cantilever Bosses Front and Rear. Dropout Eyelets Front and Rear. Additional Braze-On Options Available.
<b>HANDLEBAR</b>	Designed and Built by TOM RITCHEY, Model III Chromoly TWINSTRUT with RITCHEY Double Expander.
<b>SADDLE</b>	SPECIALIZED Lambda S.
<b>SEATPOST</b>	SUNTOUR XC 300mm.
<b>SEATPOST BOLT</b>	SUNTOUR QR-170.
<b>HEADSET</b>	SHIMANO 600 EX.
<b>BOTTOM BRACKET</b>	SHIMANO 600 EX Sealed with Chromoly Axle.
<b>CRANKSET</b>	SHIMANO 600 EX Triple. 48/38/28. Crank Length matched to Frame Size.
<b>PEDALS</b>	SUNTOUR XC-2 "Bearpaw".
<b>REAR DERAILLEUR</b>	SHIMANO DEORE XT.
<b>FRONT DERAILLEUR</b>	SHIMANO DEORE XT.
<b>SHIFT LEVERS</b>	SHIMANO DEORE XT.
<b>BRAKES</b>	SHIMANO DEORE XT Cantilevers.
<b>BRAKE LEVERS</b>	MAGURA "Shorty" with Covers.
<b>HUBS</b>	SHIMANO NEW DURA-ACE Low Flange Quick Release Cassette 6 Speed.
<b>RIMS</b>	ARAYA RM 20.
<b>SPOKES</b>	WHEELSMITH 14G Stainless.
<b>TIRES</b>	RITCHEY QUAD 1.9.
<b>CHAIN</b>	SHIMANO UNIGLIDE.
<b>WEIGHT</b>	27 lbs.
<b>SIZES</b>	19", 20", 21", 22", 23", 24", 25". (Center to Top)
<b>COLOR</b>	Most DUPONT IMRON Colors.





# Skyliner



**T**he SKYLINER tandem is named after Skyline Boulevard in the hills above Redwood City where the Ritchey staff and family enjoy many hours riding away from the pace of urban life. The SKYLINER is hand fillet brazed by TOM RITCHEY using carefully chosen imported and domestic tubing to deliver a tan-

dem that is strong, safe and dependable. By using oversize tubing, and wider tires, the SKYLINER tandem addresses the problems of traditional "lightweight" tandems. To define it as an "off-road" bicycle is a misnomer, since the SKYLINER, in addition to being a lot of fun off-road, is a logical choice for a long distance touring tandem. The crossover drive crankset is specially made for RITCHEY by SHIMANO, SUNTOUR roller cam brakes front and rear powered by MAGURA levers provide ample braking. Hand-built wheels using SUNTOUR XC sealed hubs on strong ARAYA 7X rims with WHEELSMITH spokes will give many years of reliable service. The overall feeling is security with a strong touch of exhilaration on this surprising tandem. Whether you are an experienced tandem team, or newcomers to the sport, the SKYLINER gives new meaning to your cycling enjoyment. ●

A	B <sub>1</sub>	B <sub>2</sub>	C <sub>1</sub>	C <sub>2</sub>	D	E	F	G
71°	73°	73°	22.6	26.0	17.0	68.0	2.0	11.5



## RITCHEY SKYLINER™/SPECIFICATIONS

### FRAME FORK BRAZE-ONS

Designed and Built by TOM RITCHEY, using RITCHEY Double-Butted Chrome Molybdenum Tandem Frame Tubing. Designed and Built by TOM RITCHEY, using RITCHEY 4130 Chrome Molybdenum Tandem UNIFORK Blades. Three Water Bottle Bosses, Rear Rack, Low Rider Braze-Ons. Front and Rear "Roller Cam" Bosses, Special Slotted Cable Stops and Guides. Dropout Eyelets Front and Rear. Additional Braze-On Options Available.

### HANDLEBAR

Front: RITCHEY Design Model I Chromoly TWINSTRUT. Rear: SPECIALIZED Stoker Stem and Bars.

### SADDLES

SPECIALIZED Lambda Touring.

### SEATPOSTS

Front: SR Laprade 250mm. Rear: ST MT-300 330mm.

### SEATPOST BOLTS

SUNTOUR QR-170.

### HEADSET

HATTA SWAN.

### BOTTOM BRACKETS

SHIMANO 600 EX Sealed with Chromoly Axle.

### CRANKSET

SHIMANO CUSTOM 600 EX Triple Crossover Drive. 48/38/28. 38/38 on Crossover.

### PEDALS

SUNTOUR XC-2 "Bearpaw".

### REAR DERAILLEUR

SHIMANO DEORE XT.

### FRONT DERAILLEUR

SHIMANO DEORE XT.

### SHIFT LEVERS

SHIMANO DEORE XT.

### BRAKES

SUNTOUR "ROLLER CAM" Front and Rear.

### BRAKE LEVERS

MAGURA "Shorty".

### HUBS

SUNTOUR XC Solid Axle.

### RIMS

ARAYA 7X.

### SPOKES

WHEELSMITH 14G.

### TIRES

RITCHEY QUAD 1.9.

### CHAIN

SHIMANO UNIGLIDE.

### WEIGHT

46 lbs.

### SIZES

20"-23" X 19".

### COLOR

Most DUPONT IMRON Colors.



# Ritchey Tires... the unfair advantage

## FORCE KEVLAR

WEIGHT	SIZE	PSI
600 grams	26 x 1.9"	45 — 80

The new FORCE is here. The first off-road tire to use a Kevlar bead, it is the tire for performance riders. Tom Ritchey designed the FORCE KEVLAR as the ultimate racing tire. Using the optimum 1.9 tire size introduced by Ritchey, the tire has three rows of Force Directional knobs on either side of the tread to provide unbelievable control under all types of cornering and braking stresses. At 600 grams, a pair of FORCE KEVLAR tires are nearly one pound lighter than their competition. As a result, a critical rotating weight saving is made. The FORCE is another example of how Tom Ritchey continues to set the definition of Mountain Bike tires.

## FORCE 1.9

WEIGHT	SIZE	PSI
675 grams	26 x 1.9"	45 — 80

The incredible handling capability of the FORCE KEVLAR is also available in the wire-bead RITCHEY FORCE 1.9 tire. The size and tread pattern are identical. The FORCE incorporates the smooth rolling characteristics of the RITCHEY QUAD, but has more separation between the knobs to provide maximum traction. This increased separation also results in higher contact pressure on the knobs, giving excellent stability, and allowing quick dissipation of dirt. The rider gains the extra bite necessary in extreme conditions. At 675 grams, the FORCE is a great racing or training tire at an economical price.

## QUAD 1.9

WEIGHT	SIZE	PSI
675 grams	26 x 1.9"	45 — 80

The RITCHEY QUAD 1.9 tire, introduced in 1985, pioneered the industry standard 1.9" tire width. It provides an optimum ratio of strength and weight to air volume that is characteristic of all RITCHEY tires. It was designed as a multi-purpose off-road tire to meet all the needs of the mountain bike rider. The center ridge "Gripstrip"™ is smooth and quiet on pavement. Combined with the side Quad knobs, this tire provides excellent traction.

Bridgestone, Klein, Mantis, Rocky Mountain and other prominent makers use the Quad as standard equipment on their mountain bikes. They acknowledge the QUAD's performance as the best for multiple applications. Get the best of both worlds with the QUAD!







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