

**RITCHEY**<sup>®</sup>



**2007**



## 30+ YEARS OF RITCHEY HISTORY

We owe it to you, cycling fans around the world. Road, mountain, racing, recreation, through the years Tom has applied his special skills to the enhancement of cycling. Now with the acquisition of Syncros he has a broad new platform to improve mountain bike components over-burdened by weight and traditionally graceless in design.

## INNOVATION

It's our curse and our blessing. Every year Tom guides our R&D efforts in pursuit of subtle improvements to refined products, and technological innovation in areas where the development curve is on a steeper plane. Ritchey bars, stems, and posts are dialed in - the benchmark for our competitors - and trusted by the Pros to meet the unimaginable demands of competition. Still we challenge ourselves to improve, knowing boundaries can always be pushed.

In 2006 we introduced Matrix **carbon**alloy - an exciting material science which breaks new ground by allowing us to merge carbon and alloy in such a way that their combined strength far surpasses that of either material on its own. Our new Matrix components combine the durability of alloy, the stiffness and strength of carbon, and the flawless finish you expect from Ritchey. With Matrix **carbon**alloy the whole truly is greater than the sum of the parts.



## TECHNOLOGY

We believe state of the art engineering is only useful when it delivers real benefit. New, lighter materials and expensive manufacturing - for their own sake - have never been Tom's goal.

Look carefully at our 2007 line. You'll find high technology where it benefits, new materials in proven applications, and gimmicks left behind for others to brand.

## NEW FOR 2007

What are we excited about now?

- 1) Our pedal line is complete again, with the lowest "cleat to axle" interface on the market. Our V4 Road pedal is as light as anything ridden by the Pros - without the flimsy Ti spindles.
- 2) Matrix technology sets new standards in strength, beauty and fabrication.
- 3) Tom's Break-Away bikes - committed to your lifestyle - evolve with subtle improvements and new models.
- 4) Monocoque composite construction, made real in our Evolution road bar, blends 30 years of ergonomic lessons with 21st Century carbon construction. We think it's one of the most perfect bicycle components ever offered.

5) The LTD wheel series delivers complete reliability with a Swiss made, precision bearing hub, and a finely crafted pawl system. Combined with the Zero hub flange and OCR rim design which means that in addition to being our lightest wheels ever, the LTD series are also built to last through many training and racing miles.

## THE PROVING GROUNDS

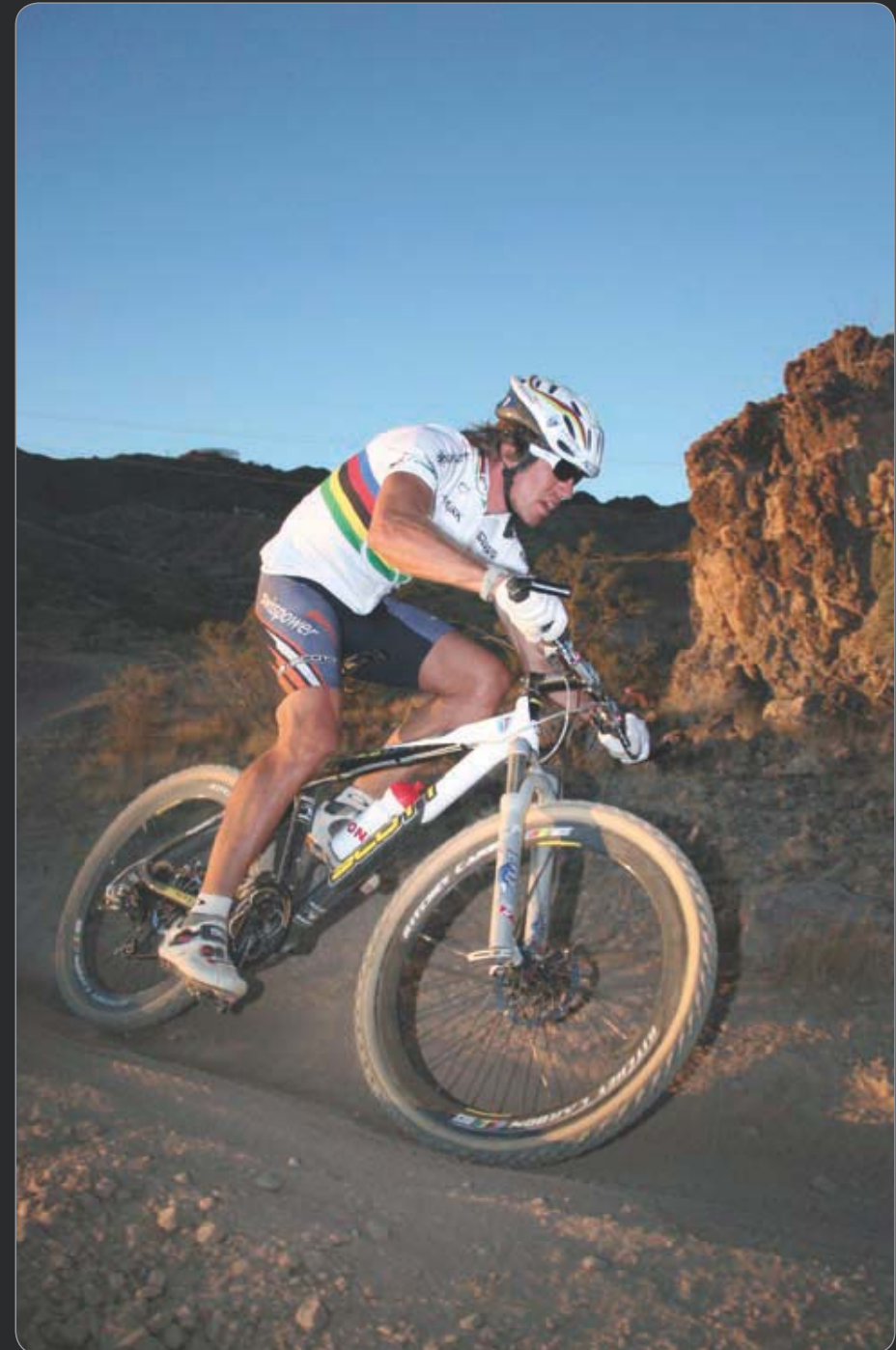
Drawings and finite element analysis are great tools, but we are always eager to prove our new designs in the real world. Starting with fatigue cycle testing, we strive for at least 2x the standard laid out by CEN (the European Committee which determines minimum safety standards for bicycles and components sold in Europe). We apply the same stringent standards to impact testing, meaning that before a proposed design finds its way onto a tester's bike, it has already been proven structurally and then some.

In 2006, we aligned ourselves with a respected German Test Lab in order to verify our own testing results. This outside authentication keeps us honest and ensures product releases meet the highest standards.

Once we have cleared the testing hurdles, prototype samples are made and the designs are confirmed on our own bikes, our independent test team, and sponsored teams competing in the toughest races on the World Cup MTB circuit, and the Pro Tour's grueling races such as the Tour de France.

By the time you put it on your bike, it has passed a global testing and approval process making it fit for whatever kind of riding you do.

David Millar honing his TT position.





### RACING & TEAM SPONSORSHIPS

Ritchey sponsored teams enjoyed another stellar year of racing results. In Europe, our association with Saunier-Duval Prodir, Gerolsteiner, Francaise des Juex, Cofidis, and Lampre yielded some impressive race wins including 5 stage wins at the Giro d'Italia, several podiums in the Spring Classics, and Levi Liephiemer taking an impressive win at the Dauphine Libre, cementing his stature as a top stage racer after his victory in the Tour of Germany last summer.

Thomas Frischknecht's team, Swiss Power had a strong showing this season, as he continues to impress with a longevity rarely seen in any pro sport, his legacy is also quite evident as young teammate Florian Vogel found his way onto his first World Cup podium this year and Nino Schurter leads the U-23 World Cup standings. Thomas is a friend of the company due to his long association with Tom and continues to provide invaluable product development feedback to us garnered from the challenging trails on the World Cup, slippery Cross courses, and epics in the European alps.

On the US side, Healthnet presented by Maxxis posted dominant results domestically and broadened the team's appetite for international competition by attending races in Taiwan, Belgium, Germany and France.





On the fabled North Shore of Vancouver BC, arguably the epicenter of freeride and big hit bikes, there also exists a strong road racing tradition. Ritchey is proud to sponsor the formidable Symmetrics Road Racing squad, a talented Division 3 team led by Eric Wohlberg.

Ritchey Design reached new heights in Grassroots Sponsorship working directly with over 125 regional, and collegiate teams in road, mountain, cross and triathlon disciplines.

Across the water, Ritchey International happily continues to support countless road and mountain teams all over Europe who are producing excellent results both nationally and on the world stage.

We will always be involved with racing, because it's a cornerstone of our existence at Ritchey. Values like this come from the "top down" and Tom Ritchey is still known to "turn the pedal in anger" on occasion.



FRANÇAISE DES JEUX



SYMMETRICS  
PRO CYCLING



## RITCHEY COMPONENTS

Covering the needs of the full spectrum, from elite competitors to recreational riders, are our WCS, Pro, and Comp lines. Introduced in the last few years, our Carbon Fiber lineup is adding a whole new level to our offering, and it's not just limited to WCS – our Pro Carbon parts offer the benefits of carbon at a more accessible price. As technology and materials evolve, so does our product line, allowing us to continue to bring you lighter, stronger parts that deliver category leading performance and value, from WCS Carbon through Comp.

### RITCHEY CARBON

**RITCHEY CARBON** – When welded properly, carbon fiber is an ideal material for building bicycle frames and components with strength to weight ratios that surpass all other materials. For a given product, we optimize the ideal combination of strength, stiffness, weight, and comfort. Our WCS Carbon products have been race proven in the most rigorous conditions – the European pro peloton. This past season our parts chalked up numerous wins, including the prestigious US PRO Championships, and the green sprinter's jersey at the Tour de France. Ritchey Carbon – elevating the game.



Ritchey **WCS™ (WORLD CHAMPIONSHIP SERIES)** These words evoke the core philosophy behind Ritchey's highest performance components. Over the years, Ritchey components have carried riders to victory from the Olympics to the World Cup circuit, National Championships and, of course, World Championship titles, too. Using the latest technology and materials to create components that provide weight savings without sacrificing strength, we proudly invite you to bolt on some of our WCS parts and share a bit of Ritchey's racing heritage with us. WCS by Ritchey – it's all in the name.

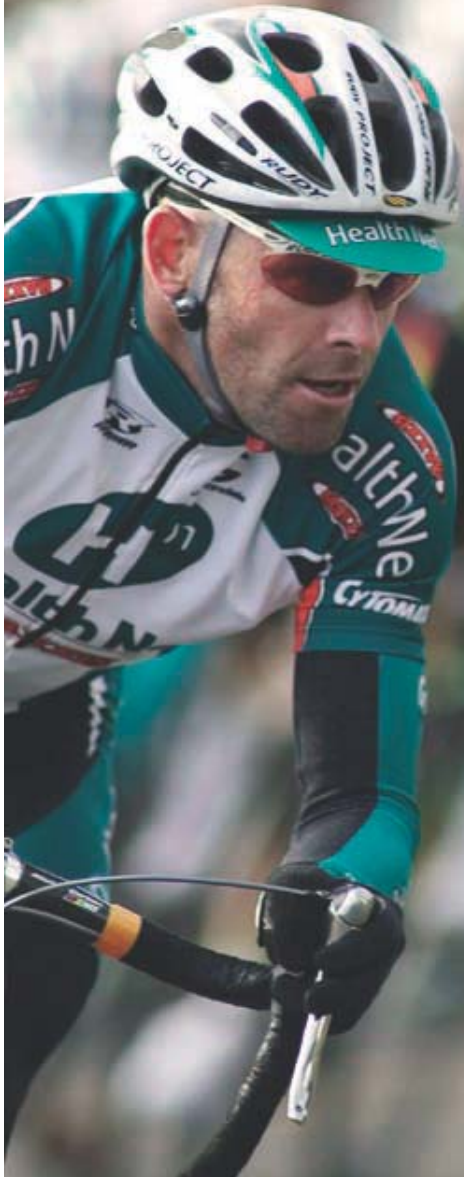


Ritchey **PRO™**. Sounds like a component line that should be the top of the line: good enough for pros, right? Well, it is. Our line of Pro components represents race caliber products at prices that will leave you with enough change in your pocket to buy a second jersey. You know, so you have a clean one to wear on the podium. Top materials and manufacturing processes, usually trickled down about a year or two after they come out as WCS. Ritchey Pro – Pro level components, without the professional price tag.



Ritchey **COMP™** parts are at the level that most companies would call their "value" line and, with respect, that's not quite enough for us. Ritchey Comp products are a good value, but we feel that every product we sell represents good value – it all depends on what your standards are. If you want bomber parts with high-level design features that won't take away from your travel budget, Comp will get the job done. Ritchey Comp – Performance and value without compromise.





## **CONTENTS**

<b>STEMS</b>	<b>8-10</b>
<b>HEADSETS</b>	<b>11</b>
<b>ROAD HANDLEBARS</b>	<b>12-16</b>
<b>MOUNTAIN HANDLEBARS</b>	<b>17-19</b>
<b>SEATPOSTS</b>	<b>20-21</b>
<b>AERO BARS</b>	<b>22-23</b>
<b>PEDALS</b>	<b>24-25</b>
<b>CARBON FORKS</b>	<b>26-27</b>
<b>BREAK-AWAY® BIKES</b>	<b>28-31</b>
<b>LIMITED EDITION WHEELS</b>	<b>32-33</b>
<b>ROAD WHEELS</b>	<b>34-35</b>
<b>MOUNTAIN WHEELS</b>	<b>36</b>
<b>CRANKS</b>	<b>37</b>
<b>SADDLES</b>	<b>38-39</b>
<b>MOUNTAIN TIRES</b>	<b>40-41</b>
<b>ROAD TIRES</b>	<b>42-43</b>
<b>CROSS &amp; SPECIALTY TIRES</b>	<b>44-45</b>
<b>GRIPS</b>	<b>46</b>
<b>GREASE, LUBE, &amp; BRAKE PADS</b>	<b>47</b>
<b>SPEC CHARTS</b>	<b>48-49</b>
<b>RITCHEY CLOTHING &amp; ACCESSORIES</b>	<b>50</b>
<b>DISTRIBUTORS</b>	<b>51</b>

For the most up to date and complete product list and specifications, please visit us at [ritcheylogic.com](http://ritcheylogic.com).

**MATRIX™ TECHNOLOGY** **MATRIX CARBONALLOY**

Ritchey has broken new ground by merging carbon and alloy – two dissimilar materials – into a union that strengthens both to a level well beyond their original state. Ritchey Matrix **carbonalloy** is the refinement of this exciting new material science. By fusing a carbon exterior to a 3D-Net forged alloy inner form, the strength and durability of the component is increased by as much as 300%. This means a component that is considerably tougher than carbon, but also resists fatigue better than a pure alloy component. With Matrix **carbonalloy** technology, the whole truly is greater than the sum of the parts.

**WCS CARBON 4-AXIS™ STEM**

- » 4-Axis stem technology is combined with Matrix **carbonalloy** to produce Ritchey's latest revolution in stem design
- » 3D-Net forged 2014 alloy inner form is combined with a carbon shell for exceptional toughness and strength
- » 3 times the strength of pure alloy
- » Bias cut slot for carbon steerers
- » 4-axis style clamp is carbon bar friendly
- » Titanium bolts
- » 130g (110mm)





## WCS 4 AXIS STEM

- » 3D-Net forged from 2014 alloy for a superb strength-to-weight ratio
- » Specially designed, forged and contoured 4-bolt faceplate for use with today's lightweight, oversized carbon and alloy bars
- » Angled steerer clamp helps prevent damage to lightweight aluminum and carbon steerer tubes
- » Stainless steel bolts
- » 125g (110mm/31.8)



## PRO STEM

- » 3D-Net forged 6061-T6 alloy, 4-bolt split clamp faceplate wraps 180 degrees around the bar to reduce stress
- » Angled steerer clamp helps prevent damage to lightweight aluminum and carbon steerer tubes
- » Stainless steel bolts
- » Now available in 30 degree version
- » 150g (110mm/31.8)

4-M5\*P0.8



## COMP STEM

- » 3D-Net forged 6061-T6 alloy construction
- » Recessed faceplate bolts
- » Angled steerer clamp helps prevent damage to lightweight aluminum and carbon steerer tubes
- » Stainless steel bolts
- » Now available in 30 degree version
- » 170g (110mm/31.8)

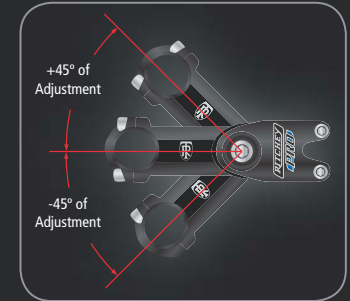




NEW FOR 2007: AVAILABLE IN 31.8MM BAR CLAMP

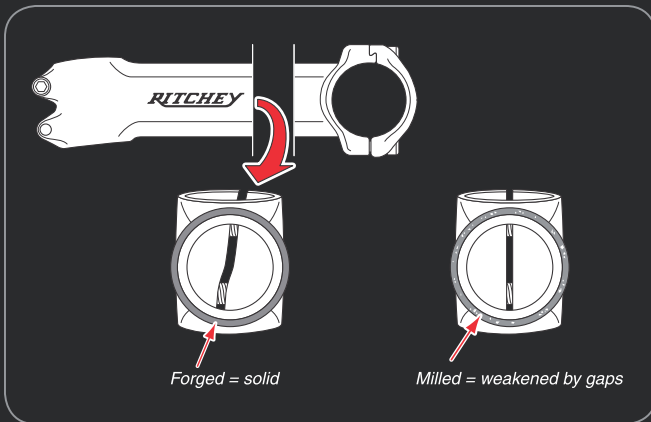
## RITCHEY ADJUSTABLE STEM

- » Over 45 degrees of height adjustment in either direction
- » 3D-Net forged 6061 shaft interconnects with a precision broached clamp to create the strongest, lightest, most secure adjustable stem available
- » Stainless steel bolts
- » 245g (80mm/31.8)



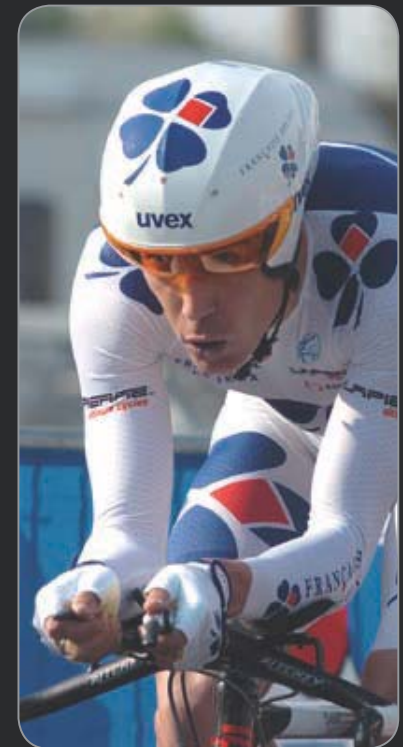
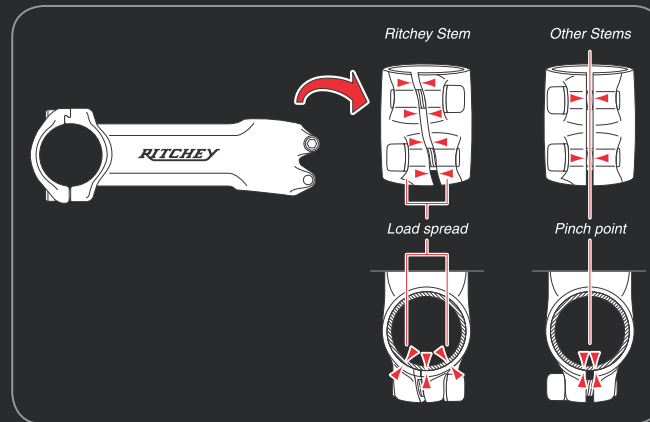
### 3D-NET™ SHAPED STEM FORGING

The extreme durability and lightweight of our WCS, Pro and Comp stems is achieved through an advanced form of cold forging called 3D Net-Shaped Forging. This sophisticated process allows us to create the shape of the stem in a single step while carefully controlling the inner wall shape and thickness. Cold forging allows Ritchey to compress, refine and align the grain structure of the aluminum and remove any internal imperfections. As a result, less material can be used without compromising strength or reliability.



### BIAS CLAMP & OPPOSING BOLTS

Most stem clamps focus a tremendous amount of stress on the steer tube and bolt threads. By cutting the stem clamp at an angle and using opposing bolts, stress is dissipated evenly across the clamp zone, resulting in a stronger, more secure clamp with less torque. That's why Ritchey stems are among the few recommended for use with lightweight carbon fiber steer tubes.





## WCS CARBON DROP IN

- » Full carbon top bearing cover and compression top cap
- » Stainless steel angular contact cartridge bearings packed with Ritchey high-webbing grease
- » Also available in alloy WCS, Pro (Cane Creek and Campagnolo compatible), and Comp
- » 16.8mm stack height
- » 69g

## WCS CARBON PRESS FIT

- » Full carbon top bearing cover and compression top cap
- » Stainless steel angular contact cartridge bearings packed with Ritchey high-webbing grease
- » 7075 alloy bearing cups
- » Also available in alloy WCS, Pro and Comp
- » 18mm stack height
- » 86g



WCS



PRO



## WCS LOGIC®

- » Lightweight, precision-machined aluminum cups
- » Logic = Small upper angular cartridge bearing saves weight, larger lower angular cartridge bearing boosts strength and durability
- » Uses Ritchey grease and sealed design for years of trouble-free performance
- » 110g

## RITCHEY CARBON SPACERS

- » Available in 5mm and 10mm precut heights
- » Outer diameter is contoured to blend with Ritchey stem OD
- » CNC cut to ensure a perfectly accurate flush fit
- » Branded Ritchey Carbon for a refined look
- » Also available in alloy



PRO



COMP



## RITCHEY BEARINGS

Most Ritchey headsets feature angular contact bearings to provide better support for maximum bearing life and smoothness - with none of the slop that plagues less sophisticated designs.



WCS

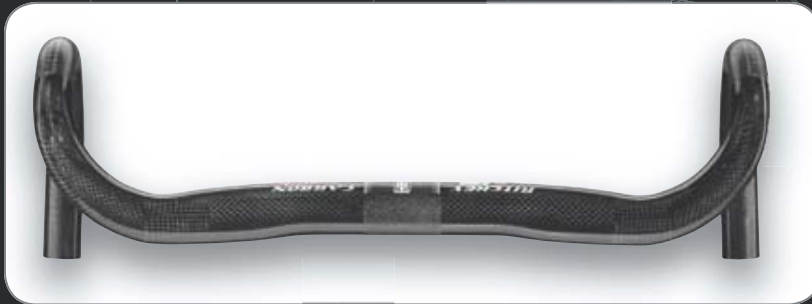


PRO



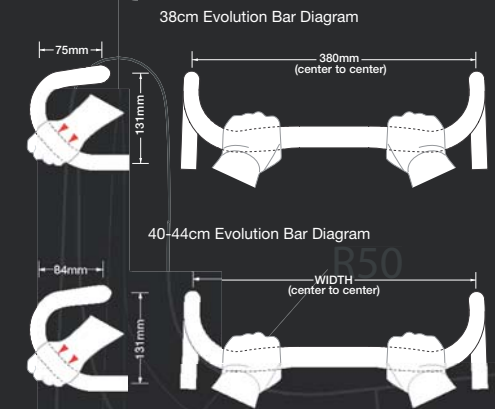


COMPLETE PRODUCT SPECS ON PAGE 48/49



## WCS CARBON EVOLUTION™

- » Monocoque construction maximizes the strength of carbon
- » Evolution bar offers a shallower drop and longer reach than the CF Logic
- » Ergonomic upper section with 3 degree back-sweep
- » Extended 31.8 center section is compatible with clip-on bars
- » Sanded stem and brake lever mount sections for no-slip component grip
- » 40-44cm widths with 84mm reach
- » 38cm width with 75mm reach version for smaller hands
- » 220g (42cm)



### RITCHEY CARBON ROAD BARS

The WCS carbon Evo bar is probably the nicest handlebar Ritchey has ever designed. It is a thoughtful combination of drop and reach that we perfected in our alloy line, meshed with the flexibility of shaping carbon through the mold process. The underside is grooved for hiding cables. The upper section has a distinctive shape to support the palm and heel of your hand ensuring a natural ergonomic support, making your time in the saddle more comfortable on the hands.

### FLARE AND BAR WIDTH

Due to the flare of some of our road bars, we measure all widths center to center, at the brake lever mounting area.

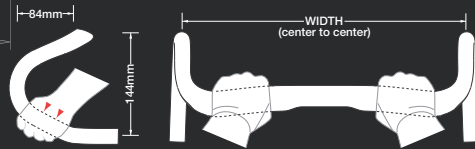
145.2±3

173±3



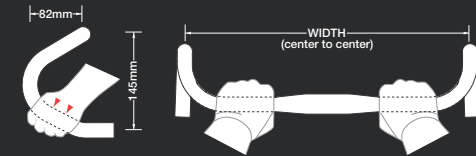
## WCS CARBON STREAM™

- » Monocoque construction maximizes the strength of carbon
- » Aerodynamic profile and more surface on top of the bar to hold onto when climbing
- » Oversize 31.8mm center section
- » Textured stem and shifter clamp areas
- » 6 degree swept-back tops, 2 degree flare on drops for a more comfortable riding position
- » Deep groove hides cables
- » 230g (42cm)



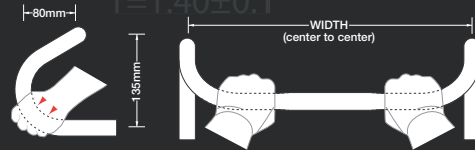
## WCS CARBON LOGIC®

- » Monocoque construction maximizes the strength of carbon
- » Oversize 31.8mm center section increases strength and rigidity
- » Textured stem and shifter clamp areas reduce risk of slippage
- » 2 degree flare on drops
- » Deep groove hides cables
- » 215g (42cm)



## WCS CARBON CLASSIC

- » Oversize 31.8mm center section increases strength and rigidity
- » Textured stem and shifter clamp areas reduce risk of slippage
- » Round drop shape as favored by racers and traditionalists
- » Deep groove hides cables
- » 215g (42cm)





**MATRIX**  
CARBONALLOY

COMPLETE PRODUCT SPECS ON PAGE 48/49

## MATRIX™ TECHNOLOGY

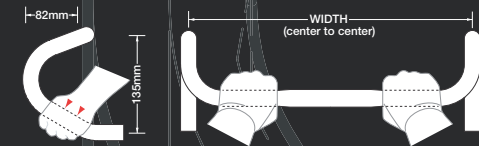
Ritchey has broken new ground by merging carbon and alloy – two dissimilar materials – into a union that strengthens both to a level well beyond their original state. Ritchey Matrix **carbonalloy** is the refinement of this exciting new material science. By fusing a carbon exterior to a 3D-Net forged alloy inner form, the strength and durability of the component is increased by as much as 300%. This means a component that is considerably tougher than carbon, but also resists fatigue better than a pure alloy component. With Matrix **carbonalloy** technology, the whole truly is greater than the sum of the parts.

**MATRIX**  
CARBONALLOY



## PRO CARBON LOGIC ROAD BAR

- » Matrix **carbonalloy** technology produces a road bar with an unheard of strength:weight ratio
- » TRX-50 alloy inner form is combined with a carbon shell for exceptional toughness and strength
- » Logic = Ergonomic shape and R50 bend for more comfort and hand positions
- » Extended 31.8 center section is compatible with clip-on bars
- » 260g (42cm)

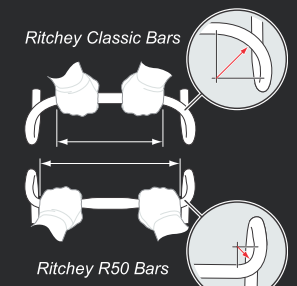


### R-50 RADIUS BEND

Multiple hand positions are critical to a good road bar, and Ritchey's R-50 bend Logic bars offer more hand positions than most bars on the market. By tightening the angle of the bar where it bends down to the drops, we've provided 30% more space on the top of the bar for climbing, which allows wider hand spacing and better breathing.

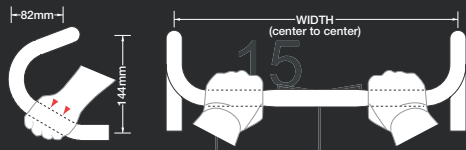
### LOGIC VS CLASSIC EXPLAINED

The R-50 bend, found on all of our Logic road bars, offers more hand positions and greater comfort. Yet our pro riders almost all favor the Classic bend – why is that? The tighter R-50 bend leaves a bit less space for a rider's forearm while in the drops, particularly when swinging the bike in a sprint, and a racer spends a lot more time in the drops than the rest of us. For most riders, Logic is the right choice, but if you spend a lot of your time sprinting in the drops, then the Classic is the bar for you.



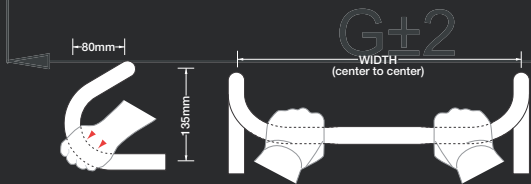
## WCS LOGIC® ROAD BAR

- » Made from TRX50 seamless, triple butted alloy
- » Anatomical bend drops
- » Available in standard 25.8 or 31.8 OS clamp section for improved stiffness and durability
- » Logic = Ergonomic shape and R50 bend for more comfort and hand positions
- » Deep groove hides cables
- » 235g (42cm/31.8)



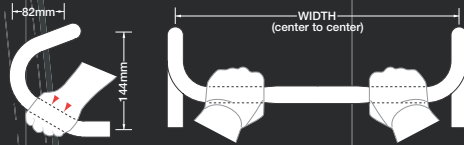
## WCS CLASSIC ROAD BAR

- » Made from TRX50 seamless, triple butted alloy
- » Standard 25.8 or 31.8 OS clamp sections
- » Round drop shape as favored by racers and traditionalists
- » Deep groove hides cables
- » 235g (42cm/31.8)



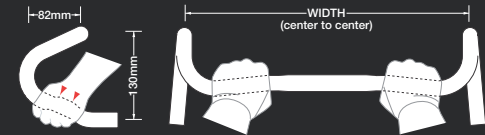
## PRO LOGIC® ROAD BAR

- » Made from 7075 T-6, triple butted alloy
- » Logic = Ergonomic shape and R50 bend for more comfort and hand positions
- » Available in standard 25.8 or 31.8 OS clamp section for improved stiffness and durability
- » Deep groove hides cables
- » 270g (42cm/31.8)
- » Also available in Comp version



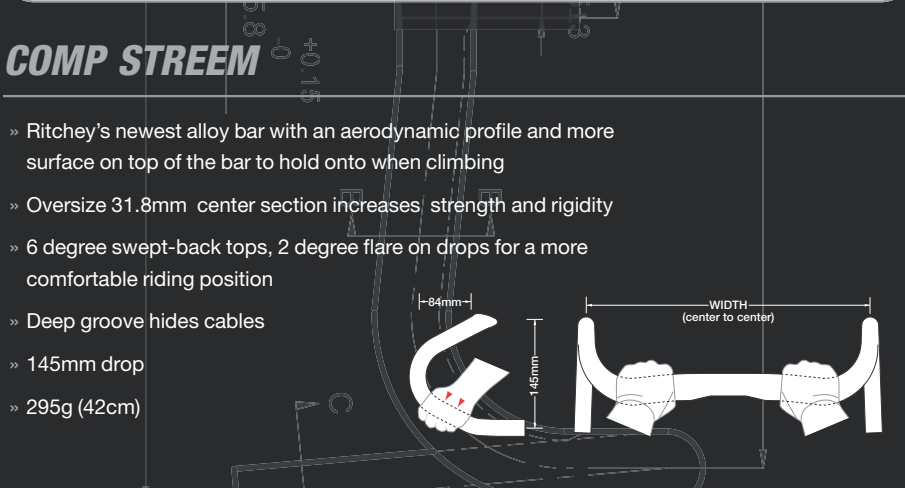
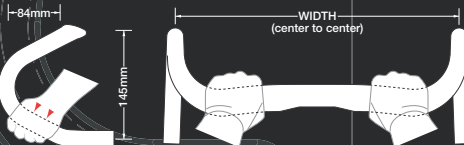
## PRO BIOMAX™ II

- » Ergo bump helps to increase steering input
- » 6 degree swept-back tops, 3 degree flare, Ergo bump and shallow (135mm) drop for more a comfortable riding position
- » R50 bend for more hand room
- » 270g (42cm/31.8)



## COMP STREAM

- » Ritchey's newest alloy bar with an aerodynamic profile and more surface on top of the bar to hold onto when climbing
- » Oversize 31.8mm center section increases strength and rigidity
- » 6 degree swept-back tops, 2 degree flare on drops for a more comfortable riding position
- » Deep groove hides cables
- » 145mm drop
- » 295g (42cm)





## WCS CARBON RIZER™ / LOW RIZER / FLAT BAR

- » Textured stem clamp area reduces risk of bar slippage
- » Reinforced internally to accept bar ends and shifter/lever clamp
- » Intended for XC use
- » Rizer: 175g / Low Rizer: 165g / Flat: 135g
- » For complete specs see pg 48



COMPLETE PRODUCT SPECS ON PAGE 48/49



CARBON RIZER



CARBON LOW RIZER



CARBON FLAT BAR

## PRO CARBON RIZER MOUNTAIN BAR

- » 31.8 textured center section for max grip
- » 20mm rise, 670mm width
- » 6 degree bend, 9 degree sweep back
- » Increased width of outer flat section for accessory mounting (210mm on each side compared to 200mm on WCS Rizer)
- » Weight: 220g



COMPLETE PRODUCT SPECS ON PAGE 48/49

## PRO CARBON MATRIX FLAT MOUNTAIN BAR

**MATRIX**  
CARBONALLOY

- » Matrix **carbon**alloy construction = superb toughness and strength
- » TRX 50 triple butted inner
- » 600mm width
- » Weight: 165g



## RIZER MOUNTAIN BAR

- » Available in ideal bends and weights for cross-country, marathon and enduro
- » Proprietary Ritchey TRX50 seamless, triple butted alloy is lighter than standard 6000 and 7000 series aluminum (WCS only)
- » Bead blasted black anodized finish
- » Available 31.8mm version for increased strength and rigidity
- » WCS: 240g / Pro: 315g / Comp: 375g (31.8)
- » Also available in Comp, for complete Rizer specs see pg 48



## FLAT MOUNTAIN BAR

- » Seamless TRX50, triple butted construction (WCS only)
- » Bead-blasted and anodized finish improves fatigue strength
- » Available 31.8mm version for increased strength and rigidity
- » WCS: 140g / Pro: 160g / Comp: 190g (31.8)
- » Also available in Comp, for complete Rizer specs see pg 48



## ERGO BAR ENDS

- » WCS ergo model has increased inward sweep – perfect for use on riser bars
- » Angled clamp slot reduces stress on lightweight bars
- » 3D-Net shaped cold forged one-piece design



## BAR ENDS

- » Angled clamp slot reduces stress on lightweight bars
- » 3D-Net shaped cold forged one-piece design (WCS only)
- » Black or silver
- » Also available in Comp version





COMPLETE PRODUCT SPECS ON PAGE 48/49



## WCS CARBON SEATPOST

- » Lightweight carbon monocoque construction
- » Two-bolt design and textured clamp surface for easy to adjust, vise-like grip
- » Low profile clamp won't bottom out on saddle
- » Wide saddle clamp reduces stress on lightweight saddle rails
- » 176g (27.2/300mm)



## PRO RITCHEY CARBON POST

- » Two piece construction: monocoque carbon shaft bonded to forged 6061 alloy head
- » Two-bolt design and textured clamp surface for easy to adjust, vise-like grip
- » Low profile clamp won't bottom out on saddle
- » Wide saddle clamp reduces stress on lightweight saddle rails
- » 235g (27.2/350mm)



### WCS POST

- » One piece 3D-Net forged 7075 alloy
- » Two-bolt design and textured clamp surface for easy to adjust, vise-like grip
- » Low profile clamp won't bottom out on saddle
- » Wide saddle clamp reduces stress on lightweight saddle rails
- » 235g (27.2/350mm)



### PRO POST

- » One piece 3D-Net forged 2014 alloy
- » Two-bolt design and textured clamp surface for easy to adjust, vise-like grip
- » Low profile clamp won't bottom out on saddle
- » Wide saddle clamp reduces stress on lightweight saddle rails
- » 275g (27.2/400mm)



### COMP POST

- » One piece 3D-Net forged 6061 alloy
- » Two-bolt design and textured clamp surface for easy to adjust, vise-like grip
- » Low profile clamp won't bottom out on saddle
- » Wide saddle clamp reduces stress on lightweight saddle rails
- » 287g (27.2/350mm)



## TIME TRIAL & TRIATHLON EQUIPMENT

Ritchey TT bars made their debut in 2003 in some of the most important time trials in professional road racing - from the Time Trial World Championships, to the Tour de France.

Where time trials are just a part of road racing, they are everything in a triathlon. Pro triathletes spend all of their time in the time trial position, and with many body styles to accommodate, the equipment must be as strong and adjustable as it is lightweight and aerodynamic.

After the success of our Prologue and Probiscus TT bars, Tom decided it was time to design a top-flight, carbon TT bar, without sacrificing the adjustability that has made our TT bars so popular. Meet the HammerHead. As seen on many pros' bikes in the Tour this past summer, many of whom switched to Ritchey from their custom bars the day before the Stage 1 time trial. Coming soon to a shop near you. Just don't be surprised if putting one on your bike means you have to get used to catching your 'minute man' more often than you're used to.

### HAMMERHEAD™ CARBON TT BAR

- » Full carbon base bar and arm rest construction
- » Fits all 31.8mm stems
- » Wide range of adjustments for reach and armrest width
- » Sold separately as base bar as well as three extension options: S-bend (carbon or alloy) and straight (carbon only)
- » 600g (40mm)



carbon (shown) or alloy  
s-bend extensions available

## PROLOGUE™ BASE BAR

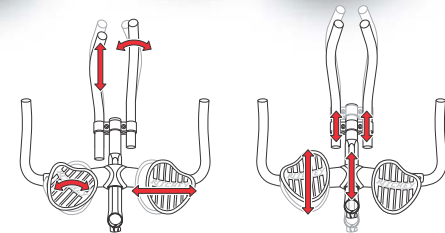
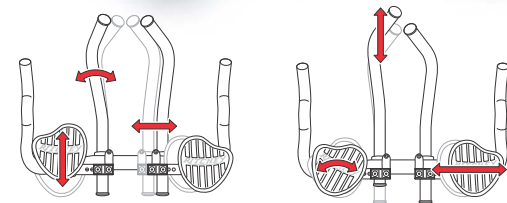
- » Seamless, double butted and bead-blasted 2014 aluminum
- » Grooved to hide cables
- » Available in Europe only
- » 210g (42cm)

## PROLOGUE CLIP-ON BAR

- » Seamless, bead-blasted 6061 aluminum
- » Bolt-on time trial bars
- » Wide range of adjustments for reach, angle and armrest width
- » New for 2007: 31.8 O/S available (with reducer shim for 26.0 bars)
- » 626 grams (clip-on only)
- » Base bar sold separately

## PROBISCUS™ AERO BAR

- » Stiff robust design intended for aggressive time trailists
- » Wide range of adjustment including base bar position, pad width, extension angle and grip position
- » Integrated stem features angled clamp and opposing bolts designed to safely and securely clamp lightweight steerers
- » Available in zero and 80mm drop version
- » Available in Europe only
- » 850g





COMPLETE PRODUCT SPECS ON PAGE 48/49

## WCS PELOTON™ ROAD

- » Cast alloy body with hi-polish finish
- » Nylon / carbon claw for easy entry and exit
- » Cromoly axle
- » Adjustable spring tension
- » Needle bearing for maximum load distribution
- » 240g (pair)



## PRO PELOTON

- » Cromoly axle, alloy body, magnesium claw
- » Bushings and bearings ensure long life
- » Low profile cleat / pedal interface for maximum pedaling efficiency
- » Adjustable spring tension
- » 282g (pair)



## PRO MICRO

- » One of the lowest pedal platform to shoe sole heights on the market, providing an improved biomechanical position
- » Special cleat design is super low-profile
- » 5 degrees of float
- » Adjustable spring tension
- » Only 208g (pair)





## WCS V4 MOUNTAIN

- » Cast Titanium body, polished finish
- » Cromoly axle is stiffer and more trustworthy than titanium
- » Low cleat to axle dimension for pedaling efficiency
- » Adjustable spring tension
- » 5 degrees of float
- » Ball bearing, needle and bushing system for maximum axle support
- » 248g (pair)



## PRO V4 MOUNTAIN

- » Stainless steel body
- » Cromoly axle = optimum strength to weight ratio
- » Low profile cleat design
- » Adjustable spring tension
- » 5 degrees of float
- » Only 280g (pair)



## COMP V4 MOUNTAIN

- » Low profile body
- » Cast steel body is light and strong
- » Smooth ball burnished bearing surfaces
- » Adjustable spring tension
- » 5 degrees of float
- » 340g (pair)





COMPLETE PRODUCT SPECS ON PAGE 48/49

## WCS CARBON ROAD

- » Race tested design
- » One piece carbon monocoque construction
- » Full carbon dropouts with alloy clamping surface for protection
- » Entire fork designed to dissipate loads throughout the fork, reducing stress on the critical crown area.
- » 44mm crown shoulder aligns with integrated and standard headsets
- » 45mm rake
- » 320g (uncut steerer)

Ø30+0.06 0

Damiano Cunego capturing the white jersey at the Tour de France using a Ritchey WCS Carbon fork.



## PRO CARBON ROAD

- » Race tested design
- » Carbon monocoque construction
- » Entire fork designed to dissipate loads throughout the fork, reducing stress on the critical crown area.
- » 44mm crown shoulder aligns with integrated and standard headsets
- » Alloy dropouts
- » 45mm rake
- » 360g (uncut steerer)

84



## COMP CARBON ROAD

- » Available in two versions: 1-1/8" 3D-Net forged alloy steerer or 1" Alloy steerer
- » Rake: 1-1/8" = 43mm; 1" = 45mm

RITCHEY CARBON



### WCS CARBON MTN

- » One-piece monocoque construction
- » Full carbon dropouts
- » Compatible with disc or rim brakes (full carbon disc brake tab)
- » Preserves front end geometry of a 80mm fork
- » Removable cantilever bosses
- » Disc brake tabs are one-piece carbon, non-removable
- » Weight: 470g



### WCS CARBON CROSS

- » Specially formed blades provide precision handling and superb vibration damping
- » Designed to work with either integrated headsets or standard headsets
- » Monocoque construction
- » 48mm rake
- » 449g (uncut steerer)

### COMP CARBON CROSS

- » 45mm rake
- » Available with or without rack eyelets



## BREAK-AWAY® BIKES

Take the legendary and inspiring handling of the Ritchey Road Logic and combine it with the feel and security of a beautifully handcrafted frame. Add a revolutionary coupling system that enables you to pack it up and take it with you wherever you go in a case that measures a scant 9x26x29 (23x66x73.5cm)! The result is the ultimate travel bike: the Ritchey Break-Away.

The Break-Away Bike disassembles and assembles in minutes and comes complete with a travel bag. Ritchey custom steel and Titanium tubesets and the patented compression coupling system are the keys to this design. The frame is securely joined at the seatpost in two places and on the downtube. The coupler clamps unobtrusively around small flanges on the down tube. While this system is as secure as systems much larger it adds less than 100 grams.

Break-Away frames are available in custom heat treated Ritchey cromoly tubing, or in custom drawn 3/2.5 aerospace grade Titanium and carbon fiber. Complete cromoly bikes are offered with a combination of Ritchey Pro / Shimano 10-speed Ultegra, and complete Titanium Carbon bikes are offered with Ritchey WCS / Shimano 10-speed Dura Ace.

You can purchase a Break-Away bike by going to your favorite shop. If they don't stock the Ritchey Break-Away, you can either have them contact us to special order, or you can visit our website at [www.ritcheylogic.com](http://www.ritcheylogic.com). All online bike orders will be routed through a local bike shop. This ensures professional assembly, customer education, and final customer approval after delivery.

Break-Away



Patented compression coupling system joins front and rear triangles near the bottom bracket shell.



Patented locking system joins seat tube and top tube.



The Break-Away Bike disassembles and assembles in minutes and comes complete with a soft case travel bag.

## TIG Ti / CARBON BREAK-AWAY®

- » Custom drawn 3/2.5 aerospace grade Titanium tubing, with high modulus carbon fiber rear triangle
- » 100% full size bicycle can be split apart mid-frame and packed into a 9"x26"x29" case
- » Patented locking compression coupling system adds only 100 grams to a complete frame
- » New custom TR designed dropout
- » Uses proven Ritchey geometry and design
- » Available in a complete Shimano® Dura-Ace® 10speed bike with all Ritchey WCS and Ritchey Carbon components
- » Includes travel case

## BREAK-AWAY® ROLLING TRAVEL BAG

- » Second edition of our BA travel bag with bearing style wheels
- » External zipper pocket for last minute stowage
- » Clamshell inner liner can be split in 1/2 for easy collapse and storage



## BREAK-AWAY® ACCESSORIES

### PRO LEVEL BUILD KITS

- » 3 kits available, size specific
- » Pro Logic bar, stem, post, Stream saddle
- » Ultegra 10 spd double
- » WCS compact crank 34/50
- » Pro DS wheelset
- » Intended for Break-Away steel or Ti / Carbon frame kit

### ROAD BARREL ADJUSTERS

- » Allows for derailleur adjustments from the handlebars
- » Works with Shimano road shifters



### COMPRESSION CLAMP

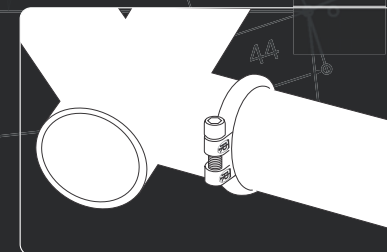
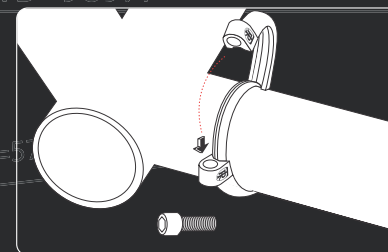
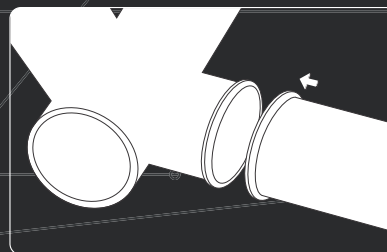
- » Two diameters 31.8 and 34.9 for steel and Ti frames
- » Investment cast stainless steel

### QUICK CONNECT

- » Time saving system for managing brake and gear cables on Break-Away bikes
- » Light threaded alloy barrels with rubber noise dampener



Cromoly compression coupling joins front and rear triangles near bottom bracket shell.



## Ti/CARBON BREAK-AWAY® ROAD FRAME

- » Custom drawn 3/2.5 aerospace grade Titanium tubing, with high modulus carbon fiber rear triangle
- » 100% full size bicycle can be split apart mid-frame and packed into a 9"x26"x29" case
- » Patented locking compression coupling system adds only 100 grams to a complete frame
- » New custom TR designed dropout
- » Uses proven Ritchey geometry and design
- » Includes travel case

### BREAK-AWAY ROAD FRAME GEOMETRY (Ti/Carbon and Steel Frames)

Frame Size (cm.)	50	52	54	56	58	60
Top Tube ( Effective)	53	54	55	56	57.5	59
Seat Tube (Center to top)	48	48	48	54	54	54
Seat Tube Angle	75°	75°	73.5°	73.5°	73.5°	73.5°
Head Tube Angle	72.5°	73°	73.5°	73.5°	73.5°	73.5°
Bottom Bracket Drop	72	72	70	70	70	70
Chainstay	41	41	41.5	41.5	41.5	41.5
Wheelbase	97	98	98.5	99.5	101	102
Fork Rake	44	44	44	44	44	44
Post Diam.	27.2	27.2	27.2	27.2	27.2	27.2
Stand Over Height	73.9	73.9	79	79	79	79

## BREAK-AWAY® ROAD FRAME

- » 100% full size bicycle can be split apart mid-frame & packed into a 9"x26"x29" case
- » Patented locking cromoly compression coupling system adds only 100 grams to a complete frame
- » Custom heat treated Ritchey cromoly steel tubing
- » Includes the Ritchey Pro carbon fork and Pro headset
- » Includes travel case

Break Away



Break Away



## Ti BREAK-AWAY® CROSS FRAME

- » Made from extra lightweight custom drawn and mitered 3/2.5 Titanium
- » Patented locking compression coupling system
- » Stout bridgeless chainstay design
- » Integrated headset
- » Durable sand blasted graphics
- » Travel case included
- » Comes with the WCS all carbon cross fork

### BREAK-AWAY CROSS FRAME GEOMETRY (Titanium and Steel Cross Frames)

Frame Size (cm.)	50	52	54	56	58	60
Top Tube ( Effective)	52.5	53	54	55.5	57	58
Seat Tube (Center to top)	50	50	50	56	56	56
Seat Tube Angle	74°	74°	73.5°	73.5°	73.5°	73.5°
Head Tube Angle	71.5°	71.5°	72°	72°	72°	72°
Bottom Bracket Drop	6.5	6.5	6.5	6.5	6.5	6.5
Chainstay	42.5	42.5	42.5	42.5	42.5	42.5
Wheelbase	99.5	100	101	102	103	104
Fork Rake	44	44	44	44	44	44
Post Diam.	27.2	27.2	27.2	27.2	27.2	27.2
Stand Over Height	73.7	75.4	77.7	79.5	81.3	82.5

## BREAK-AWAY® CROSS FRAME

- » Patented locking compression coupling system
- » Front and rear eyelets for rack mounting
- » Utilizes custom butted heat treated Ritchey steel tubing
- » Travel case included
- » Orange / Gray only
- » Comes with 1 1/8" carbon fork with alloy steerer and brake bosses

Break-Away



Break-Away



# RITCHEY WCS LTD

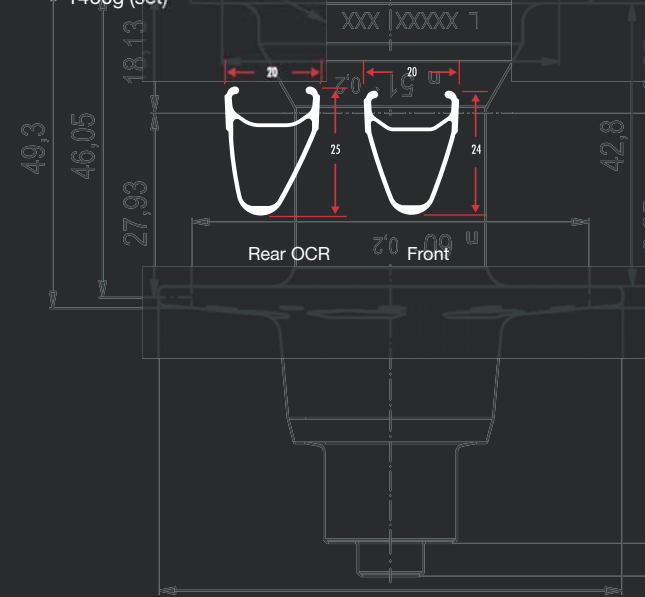
New for 2007, Ritchey LTD wheelsets combine our top of the line WCS road and mountain rims with Swiss-made precision rear hubs, DT stainless spokes, Ti QR axles, and our timeless Zero OCR rear wheel design. The result is our lightest, fastest, and most reliable wheels ever.



COMPLETE PRODUCT SPECS ON PAGE 48/49

## WCS PROTOCOL™ LTD

- » Swiss made hubs with precision bearing and pawl system
- » Ritchey designed forged hi-lo rear hub flange eliminates dish tension problems
- » Star flange front hub (20H w/ 1x lacing) for reliable spoke tension; rear lacing: 24H w/ 2x
- » Handbuilt
- » 9 & 10 spd Shimano or Campagnolo compatible freehubs
- » DT Aerolite stainless spokes / alloy nipples
- » 24mm front / 25mm rear rim profile
- » 20h front / 24h rear drilling
- » Machined braking surface
- » 1460g (set)





## WCS DISC LTD & XC LTD

- » Swiss made mountain disc hub with precision bearing and pawl system
- » Ritchey designed forged hi-lo rear hub flange eliminates dish tension problems
- » Handbuilt
- » DT double-butted stainless spokes / Alloy nipples
- » Disc: 28H front and rear w/ 3x lacing
- » XC: 24 front, 28 rear w/ radial/ 2x lacing
- » XC LTD rim is machined braking surface
- » Disc: 1490g (set); XC: 1585g (set)



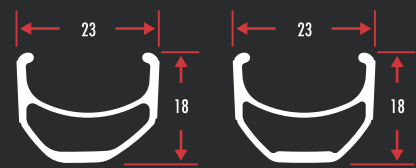
### MOUNTAIN RIM CROSS SECTIONS

**DISC LTD**



Front & Rear

**XC LTD**



Rear OCR

Front

Tubular



COMPLETE PRODUCT SPECS ON PAGE 48/49

## WCS CARBON TUBULARS & CLINCHERS

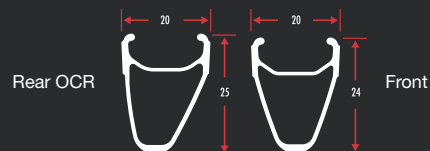
- » Race proven US made carbon rim
- » Aerodynamic 58mm rim depth; 16H front / 24H rear
- » Forged and CNC'd WCS hubs featuring titanium skewers
- » Shimano/Campagnolo 9 or 10 Speed compatible
- » Serialized with a full warranty
- » Tubular: Front: 578g / Rear Shimano: 758g / Rear Campy: 799g
- » Clincher: Front: 799g / Rear Shimano: 949g / Rear Campy: 990g
- » US only

Clincher



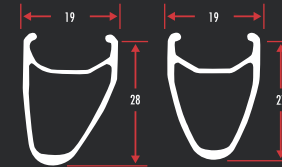
## WCS PROTOCOL

- » Rims manufactured with a new destressing process which makes the wheel truer, rounder, and stronger
- » Forged and CNC'd WCS hubs featuring titanium skewers
- » OCR rim and Zero System hub eliminates dish
- » 20H front (w/ radial lacing); 24H rear (w/ 2x lacing)
- » High tolerance machined sidewalls
- » Shimano/Campagnolo 10 Speed compatible (retrofit kit available for conversion to Shimano 9 spd)
- » Serialized with a full warranty
- » Front: 650g / Rear Shimano: 810g / Rear Campy: 870g
- » Now available in silver and black



## WCS DEEP SECTION (DS)

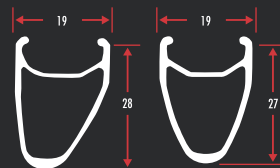
- » OCR rim and Zero System hub eliminates dish
- » Aerodynamic 27mm front / 28mm rear profile and 16H radial front / 24H w/ 2x rear
- » Bladed DT stainless steel spokes
- » Shimano/Campagnolo 10 Speed compatible (retrofit kit available for conversion to Shimano 9 spd)
- » Smooth, low maintenance custom cartridge bearings packed with Ritchey grease
- » Cold forged and machined WCS hubs
- » High tolerance machined sidewalls
- » Serialized with a full warranty
- » 650g front / 834g rear



COMPLETE PRODUCT SPECS ON PAGE 48/49

## PRO Z DEEP SECTION (DS)

- » OCR rim and Zero System hub eliminates dish
- » Aerodynamic 27mm front/28mm rear profile and 20H radial front / 24H w/ 2x rear
- » Bladed DT stainless steel spokes
- » Cold forged and machined Pro hubs
- » Smooth, low maintenance custom cartridge bearings packed with Ritchey grease
- » High tolerance machined sidewalls
- » Serialized with a full warranty
- » Front: 778g / Rear Shimano: 1060g





### WCS DISC

- » Ultra light OCR 6066 alloy welded rims
- » 28H w/3x build
- » Also available in Pro and Comp versions
- » WCS and Pro available in Europe only
- » Comp available in US only

**DISC**



Front & Rear

### COMP SILHOUETTE™

- » Excellent training or cyclocross wheelset
- » Completely serviceable bearing / cone system
- » Vertically compliant for rough roads
- » U.S. only





COMPLETE PRODUCT SPECS ON PAGE 48/49

## WCS CARBON COMPACT CRANK

- » Crankarm material: unidirectional carbon fiber
- » Compatibility: Shimano® Octalink®
- » 110mm bolt circle diameter
- » Chaining size 34/50T (available 36/46T cross version)
- » Chaining material: 34/36T – hardened steel; 46/50T – 7075 aluminum
- » 170, 172.5 and 175mm lengths
- » 548g

## WCS & PRO COMPACT CRANK

- » 110mm bolt circle diameter allows a wider range of chaining selection, giving you almost the same gearing as a triple with the weight and simplicity of a double
- » Specially designed shift ramps and pins allow for wide gear ranges
- » Favored by many cross racers
- » 170, 172.5 and 175mm lengths
- » Pro model available in Europe only



## PRO CROSS V CRANK

- » Cold forged design focuses strength at the high stress pedal and BB interfaces, while removing extra weight from the lower stress center of the arms.
- » Integrated fifth arm spider
- » Cross-specific 38/48t wear-resistant hard anodized rings are pinned to improve shifting
- » 170, 172.5 and 175mm lengths
- » Black anodized finish
- » 590g
- » U.S. only





## WCS STREEM SADDLE

- » Vector wing design dissipates vibration
- » Low-profile design and narrow shell
- » 35% carbon injected shell for stiffness
- » Superlight foam
- » Genuine leather and CrN/Ti alloy rails
- » 180g



## PRO & COMP STREEM SADDLES

- » Vector wing design dissipates vibration
- » Low-profile design and narrow shell
- » 35% carbon injected shell for stiffness and lightweight
- » Pro: tubular chromo rails
- » Comp: steel rails



Saddles	rails	cover	weight
WCS	CrN/Ti	Leather	180g
PRO	Cromo	Synthetic Leather	210g
Comp	Steel	Vinyl	295g




## WCS MARATHON SADDLE

- » Wing shell design dissipates vibration
- » 35% carbon content permits shell's 'Wing' design to dissipate vibration
- » Hi density superlight foam
- » CrN/Ti alloy rails, genuine perforated leather with Kevlar® abrasion resistant sides
- » 223g



## PRO & COMP MARATHON SADDLES

- » Wing design to dissipate vibration
- » Narrow 35% carbon content shell for pedaling efficiency
- » Pro: Hi density foam, microfiber surface, tubular chromo rails, and abrasion resistant sides
- » Comp: steel rails, vinyl surface

Saddles	rails	cover	weight
 WCS	CrN/Ti	Leather	223g
 PRO	Cromo	Synthetic Leather	279g
 COMP	Steel	Vinyl	325g



# Z-MAX™ SERIES



## Z-MAX EVOLUTION™

- » Evolution of the Z-Max Classic design – Ritchey's signature MTB tread pattern for well over a decade
- » Tread lugs are spaced wider and shortened for faster handling, reduced rolling resistance and lighter weight
- » WCS version features Dual Compound – softer sides enhance cornering, firmer center section rolls faster and is more durable

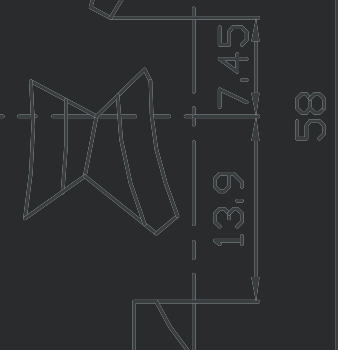
Z-Max Evolution	26x1.9	26x2.1
WCS	430g	455g
PRO	477g	530g
PRO Tubeless	630g	-
Comp	548g	596g



## Z-MAX CLASSIC™

- » All-around, front or rear World Cup caliber race tire with VFA tread
- » One of the winningest tires of all time

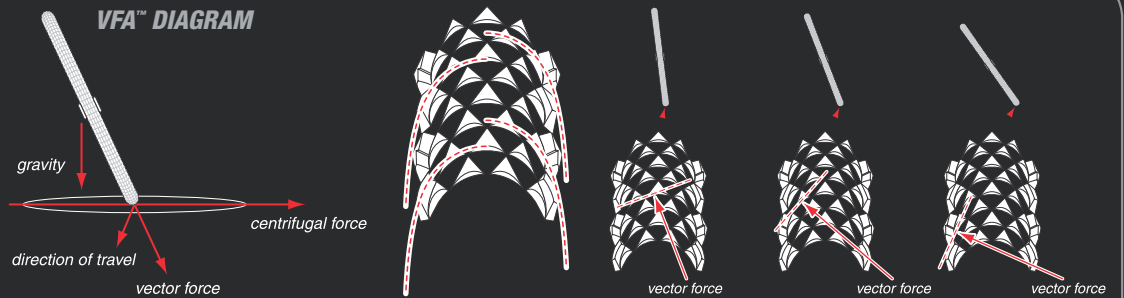
Z-Max Classic	26x1.9	26x2.1	26x2.35
WCS	495g	580g	-
PRO	525g	610g	578g
PRO Tubeless	-	740g	-
Comp	605g	680g	660g



## TIRE ROTATION AND THE VFA™ STORY

Vector Force Analysis (VFA™) analyzes the directional forces thrust upon a tire during cornering, accelerating, braking, climbing and descending. These forces vary with factors like tire pressure, rider weight, trail conditions, lean angle, etc. The combination of these and other rider inputs, plus the effects of trail friction and gravity combine to produce a single vector force affecting each tire knob. VFA™ is a method of analyzing these forces to understand which are most prevalent in specific conditions, then designing tires with the best possible combination of knob surfaces and strength, as well as mud clearing and rolling characteristics for the application. Even though Ritchey pioneered this concept over ten years ago, it is only recently that other tire manufacturers have caught on to the fact that VFA™ works.

### VFA™ DIAGRAM



Tires experience multiple vectors during cornering, climbing and descending. The combination of these vectors results in a single vector force.

VFA™ design tread patterns follow parabolic curve for traction at every lean angle.

The tread knobs are specifically designed with supports that counteract the vector force being applied perpendicularly to the tire.






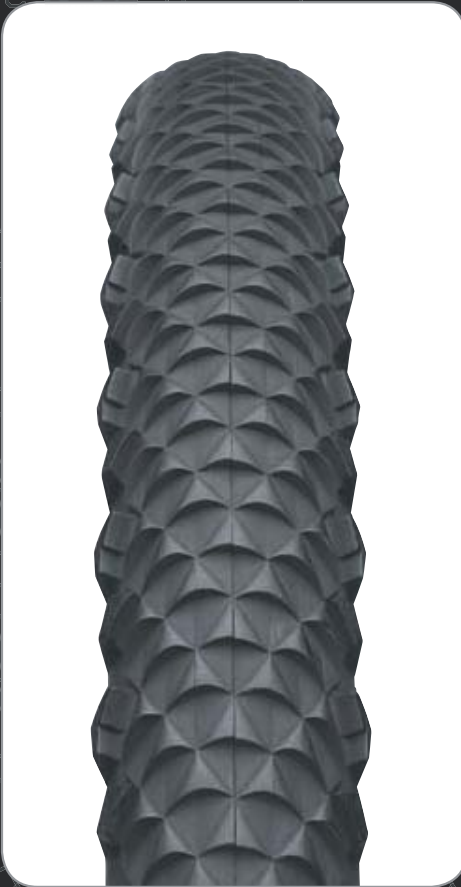
# SPEEDMAX™ SERIES



## SPEEDMAX BETA™




- » Special center square “digger” tread for hard-pack speed with excellent traction
- » Z-Max style center-side tread lugs for aggressive cornering
- » WCS version features ‘dual compound’ – softer sides enhance cornering, firmer center section rolls faster and is more durable

SpeedMax Beta	26x2.0
	415g
	470g
	568g



## SPEEDMAX INNOVADER™

- » Fast-rolling semi-knobby VFA tread
- » Great for hard-packed conditions & fire roads
- » Very low rolling resistance
- » Pro 2.1 features Dual Compound – softer sides enhance cornering, firmer center section rolls faster and is more durable
- » Available in Europe only

InnoVader	26x2.1
	490g
	495g
	552g



## SPEEDMAX DELTA™

- » A city oriented, fast-rolling tread design evolved from InnoVader tread design
- » Good for hardpack trails or as an MTB commuter tire

SpeedMax Delta	26.x2.1
	624g



## WCS RACE SLICK TUBULAR

- » The ultimate performance tubular
- » Supple 290tpi cotton casing
- » Racing compound smooth tread for maximum grip in any condition
- » 180psi/12 BAR maximum pressure
- » Puncture Resistant Belt (PRB)
- » Handmade
- » 48mm valve stem
- » Comp version available



## WCS RACE SLICK OPEN

- » Clincher version of the WCS tubular
- » Supple 290tpi cotton casing
- » Racing compound smooth tread for maximum grip in any condition
- » Puncture Resistant Belt (PRB)
- » 160psi/10 BAR maximum pressure
- » Handmade



## WCS RACE SLICK

- » 120tpi nylon casing resists flats
- » Slick tread for cornering grip
- » High density rubber
- » Puncture Resistant Belt (PRB)
- » 120psi/8.5 BAR maximum pressure
- » Pro and Comp versions also available



**TOM SLICK™**

- » Great all-around training tire
- » VFA side grooves improve grip in all conditions
- » Comp version available

**TOM SLICK WITH  
FORTRESS™ CASING**

- » New high mileage casing that resists flats, yet still provides a supple ride
- » Bead to bead polyamide casing for ultra flat prevention
- » Dual tread compound makes this a great high performance tire for training and touring

**FORTRESS**  
FLAT RESISTANT CASING

**ROAD TIRE MATRIX**

Road Tubular	700x21	700x23
	250g	-V
	300g	-
<b>Race Slick Open</b>	-	700x23
	-	230g
<b>Race Slick</b>	-	700x23
	-	230g
	-	240g
	-	270g
<b>Tom Slick</b>	-	700x23
	-	210g
	-	225g
<b>Tom Slick Fortress</b>	-	700x23
	-	293g

**SUPER LIGHT ROAD & MOUNTAIN TUBES**

- » Lighter than standard butyl tubes
- » Presta valve
- » Available in all popular sizes
- » 48mm valve option

**LIGHTWEIGHT BUTYL TUBE**

- » Standard butyl tubes
- » Available in all popular sizes
- » 48mm valve option

12.3

12

30.8



### SPEEDMAX DELTA™ 700

» A city oriented, fast-rolling tread design evolved from InnoVader tread design

<b>SpeedMax Delta</b>	700x35
<b>Comp</b>	430g



32

### SPEEDMAX CROSS SERIES

- » Low rolling resistance
- » Excellent mud clearing capability
- » Diamond pattern center with VFA baffles
- » Available in three different widths – 32 / 35 / 40

SpeedMax Cross	700x32	700x35	700x40
<b>PRO</b>	320g	335g	N/A
<b>Comp</b>	380g	440g	478g



35 / 40



### EXCAVADER™

- » Aggressive, fast-rolling 3rd generation VFA tread design
- » All conditions, front or rear

<b>ExcaVader 700</b>	700x35
<b>PRO</b>	365g
<b>Comp</b>	445g



## TOM SLICK 26"

- » Great all-around training tire
- » VFA side grooves improve grip in all conditions

<b>Tom Slick</b>	26x1.0	26x1.4
<b>PRO</b>	250g	350g
<b>Comp</b>	300g	400g



## MOBY BITE™

- » Sticky slick tire for riding on Slickrock or city streets
- » Traction fins hold the trail when riding across steep inclines
- » Wide tire makes a great cruiser or sand tire

<b>Moby Bite</b>	26x2.1
<b>Comp</b>	730g



### **SPEEDMAX LOCKING GRIPS**

- » Two-bolt, one-side locking design
- » Grip pattern derived from speedmax tire tread
- » Great for wet riding conditions



### **WCS TRUEGRIPS™**

- » Tough neoprene foam is superlight, plush and grippy even in wet conditions
- » Slim anatomical shape
- » One of the lightest grips available



### **WCS ERGO TRUEGRIPS**

- » Superlight, tough high density foam for grip in wet conditions
- » Ergo shape for palm-fitting comfort
- » Inner "hand-stop" collar
- » 36g without end plugs



### **TRUEGRIP**

- » Durable, no-slip Kraton rubber
- » Classic Ritchey shape reduces hand fatigue and boosts grip



### **TGV GRIPS**

- » Dual compound won't slip on the bar or in your hand
- » Aggressive design works great even in nasty conditions
- » Standard or twist shifter length

### **TRUEGRIP VI**

- » Dual compound, no-slip Kraton rubber
- » Ergonomically designed





## RITCHEY BEARING GREASE

- » Specially formulated for demanding bicycle applications
- » Superior webbing characteristic resists shearing
- » Resists breakdown from water and bearing friction
- » Available only from Ritchey USA

## RITCHEY CHAIN LUBE

- » Cleans and lubricates in one step
- » Creates a membrane around the moving parts of your chain which floats dirt to the surface where it can't harm the chain
- » Seals out contaminants
- » 4oz and 16oz bottles
- » Available only from Ritchey USA



## RITCHEY SNAP ON RIM STRIP

- » New design offers secure, snug fit to rim
- » New coating resists "creeping" on the rim - perfect for OCR rims
- » Will not dimple into spoke holes — even at high performance road tire pressures
- » Available in 700c/17mm and 26"/20mm



## TORQKEY

- » Properly install your Ritchey carbon bars and stem without fear of over-torquing. This Torque Key uses a M4 bit and is pre-set to 5Nm (maximum recommended torque for Ritchey carbon bars and WCS stems)
- » 53 grams

## DISC BRAKE PADS

- » Semi-metallic pad material for maximum braking on heated rotors
- » Springs included for proper installation
- » Key models for all major makes of disc brakes



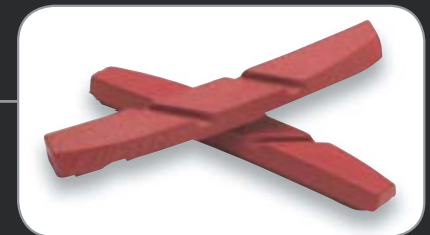
## SUPER LOGIC® ROAD BRAKE PADS

- » Cartridge-style replacement pad for Shimano® Dura-Ace® and Ultegra® brakes
- » Angled channels shed water and dirt from rim for optimum braking
- » Profiled to prevent squealing



## SUPER LOGIC® MOUNTAIN BRAKE PADS

- » Cartridge-style replacement pad for Shimano® Avid® and other linear brakes
- » Angled channels shed water and dirt from rim for optimum braking
- » Profiled to prevent squealing



## LIQUID TORQUE

- » Creates extra friction between two surfaces, allowing tightening torque to be reduced by up to 30%
- » Particularly useful for use where over-clamping can damage sensitive components such as Carbon bars or steerer tubes
- » Approved for use with carbon, steel, alloy and titanium surfaces
- » Use with Ritchey Torqkey to ensure safe installation of Ritchey bars and stems



# PRODUCT SPECIFICATION CHARTS

Availability = [ Blue = US Only Red = Europe Only Black = Both ]

For the most recent and up-to-date info please visit us at [ritcheylogic.com](http://ritcheylogic.com)

## STEMS

WCS Carbon 4 AXIS	material	stem const.	cap width	cap bolts	steerer	bar	angle	lengths	weight (110mm)	finish
	2014/Carbon	3D Forged	40	4 X taper head titanium	1 1/8"	31.8mm	84°	See chart	125g	Carbon
WCS 4 AXIS	material	stem const.	cap width	cap bolts	steerer	bar	angle	lengths	weight (110mm)	finish
	2014	3D Forged	40	4	1 1/8"	31.8mm	84/73°	See chart	125g	BB Black
	2014	3D Forged	36	4	1 1/8"	25.4/25.8mm	84°	See Chart	125g	BB Black
Pro / Comp Stems	material	stem const.	cap width	cap bolts	steerer	bar	angle	lengths	weight	finish
	6061T-6	3D Forged	40	4	1 1/8"	25.4/25.8mm	84/73°	See Chart	150g	BB Black
	6061T-6	3D Forged	40	4	1 1/8"	31.8mm	84°	See Chart	155g	BB Black
	6061T-6	3D Forged	42	4	1 1/8"	25.4/25.8mm	84°	See Chart	165g	BB Black
	6061T-6	3D Forged	42	4	1 1/8"	31.8mm	84°	See Chart	170g	BB Black
Adjustable Stem	material	stem const.	cap width	cap bolts	steerer	bar	angle	lengths	weight (80mm)	finish
	6061T-6	3D Forged	42	4	1 1/8"	25.4/25.8/31.8mm	90° range	See Chart	248g	BB Black

## STEM SIZES

Model	Degree	60	70	80	90	100	110	120	130	140
WCS Carbon 4 AXIS	84/6				X	X	X	X	X	
WCS 4 AXIS	84/6				X	X	X	X	X	X
WCS 4 AXIS	73/17				X	X	X	X	X	
PRO O/S	84/6				X	X	X	X	X	
PRO O/S	30	X	X	X	X					
PRO Road	84/6			X	X	X	X	X	X	
PRO Road	73/17			X	X	X	X	X	X	
PRO Mountain	84/6			X	X	X	X	X	X	
PRO Mountain	73/17			X	X	X	X	X	X	
Adjustable	+45/-45			X		X		X		
COMP O/S	84/6				X	X	X	X	X	
COMP O/S	30	X	X	X	X					
COMP Road	84/6				X	X	X	X	X	
COMP Mountain	84/6				X	X	X	X	X	
2-bolt Mountain	5°	X	(75mm)							

## SEATPOSTS

Carbon Posts	material	cradle	diameter	length	weight	finish	
	Carbon	43x38	27.2/31.6/34.9	300/350/400	160g (27.2/300)	Carbon	
	Carbon	43x38	31.6	350mm	176g (300mm)	Carbon	
	Carbon/6061	43x38	27.0/27.2/31.6	300/350/400	180g (27.2/300)	Carbon/BB Black	
Alloy Posts	material	construction	cradle	diameter	length	weight	finish
	7075	3D Forged	43x38	27.2/30.9 31.4/31.6	280/300/350/400	235g (27.2/350)	BB Black
	2014	3D Forged	43x38	26.8/27.0/27.2/30.9 31.4/31.6	280/300/350/400	275g (27.2/400)	BB Black
	6061	3D Forged	43x38	26.8/27.0/27.2/30.9/31.4/31.6/34.9	250/300/400	305g (27.2/400)	BB Black

## ROAD & MOUNTAIN HANDLEBARS

Carbon Road Bars	material	width Center to Center	drop/reach	weight	finish	clamp dia		
	Evolution	Carbon	38,40,42,44	38cm = 135/75mm 40-44 = 135/84	220g (42 cm)	Carbon		
	Stream	Carbon	40/42/44	145/84mm	230g (42 cm)	Carbon		
	Logic	Carbon	40/42/44	144/82mm	215g (42 cm)	Carbon		
	Classic	Carbon	40/42/44	135/82mm	210g (42 cm)	Carbon		
	Matrix	TRX50/Carbon	40/42/44	135/80mm	260g (42 cm)	Carbon		
Alloy Logic	material	butting	width Center to Center	drop/reach	weight	finish	clamp dia	
	TRX50	Triple	40,42,44	144/82mm	210g (42 cm)	BB Black	25.8	
	7075 T-6	Double	38,40,42,44,46	144/82mm	250g (42 cm)	BB Black	25.8	
	6061 T-6	Double	40,42,44	144/82mm	270g (42 cm)	BB Black	25.8	
Alloy O/S Logic	material	butting	width Center to Center	drop/reach	weight	finish	clamp dia	
	TRX50	Triple	40,42,44	144/82mm	235g (42 cm)	BB Black	31.8	
	7075 T-6	Double	40,42,44,46	144/82mm	270g (42 cm)	BB Black	31.8	
	6061 T-6	Double	40,42,44	144/82mm	290g (42 cm)	BB Black	31.8	
Alloy Classic	material	butting	width Center to Center	drop/reach	weight	finish	clamp dia	
	TRX50	Triple	40,42,44	135/82mm	210g (42 cm)	BB Black	25.8	
	TRX50	Triple	40,42,44	135/82mm	235g (42 cm)	BB Black	31.8	
BioMax	material	butting	width (center to center)	drop/reach	flare	weight	finish	clamp dia
	7075 T-6	Triple	38,40,42,44	130/75mm	3°	235g (42 cm)	BB Black	25.8
	7075 T-6	Triple	36,38,40,42,44	130/75mm	3°	240g (42 cm)	BB Black	31.8
Alloy Stream	material	width Center to Center	drop/reach	weight	finish	clamp dia		
	6061 T-6	40/42/44	145/84	295g (42 cm)	BB Black	31.8		
Carbon Mtn Bars	material	butting	width	bend/rise/sweep	weight	finish	diameter	
	Rizer	N/A	660	6°/30mm/9°	170g	Carbon	31.8	
	Low-Rizer	N/A	660	6°/15mm/9°	160g	Carbon	31.8	
	Flat	N/A	580	5°	135g	Carbon	31.8	
	Rizer	N/A	670	6°/20mm/9°	220g	Carbon	31.8	
	Flat Matrix	TRX50/Carbon	N/A	600	5°	165g	Carbon	31.8
Alloy Rizer Bars	material	butting	width	bend/rise/sweep	weight	finish	diameter	
	TRX50	Triple Seamless	660mm	6°/20,35mm/9°	225g	BB Black	25.4	
	TRX50	Triple Seamless	660mm	6°/30mm/9°	240g	BB Black	31.8	
	2014 T-6	Triple	670mm	6°/35mm/9°	300g	BB Black	25.4	
	2014 T-6	Triple	670mm	6°/20,35mm/9°	315g	BB Black	31.8	
	6061 T-6	Double	670mm	6°/35mm/9°	365g	BB Black	25.4	
	6061 T-6	Double	670mm	6°/35mm/9°	375g	BB Black	31.8	
	6061 T-6	Plain Gauge	670mm	6°/45mm/9°	465g	BB Black	25.4	
Alloy Flat Bars	material	butting	width	bend	weight	finish	diameter	
	TRX50	Triple Seamless	550mm	5°	130g	BB Black	25.4	
	TRX50	Triple Seamless	580mm	5°	140g	BB Black	31.8	
	2014 T-6	Double	580mm	5°	150g	BB Black	25.4	
	2014 T-6	Double	580mm	5°	160g	BB Black	31.8	
	6061 T-6	Double	580mm	5°	180g	BB Black	25.4	
	6061 T-6	Double	580mm	5°	190g	BB Black	31.8	



## HEADSETS

Carbon Drop In	stack height	component material	headtube ID/depth	bearings	weight	compatibility			
	16.8 mm	Carbon/Alloy	41.8mm/6.9mm	Sealed Cartridge Stainless	69g	Cane Creek Std/ Campy			
Carbon Press Fit	stack height	component material	headtube ID/depth	bearings	weight				
	18 mm	Carbon	44mm/9mm	Sealed Cartridge Stainless	86g				
Press Fit Headset	stack height	cup material	headtube ID/depth	bearings	weight				
	12.9/18/25 mm	Alloy	44mm/9mm	Sealed Cartridge Stainless	110g (10 mm)				
	12.9/18/25 mm	Alloy	44mm/9mm	Sealed Cartridge	121g (10 mm)				
	12.2 mm	CroMo	44mm/9mm	Semi Cartridge	170g				
Drop In Headsets	stack height	component material	headtube ID/depth	bearings	weight	compatibility			
	9.9/16.8/25 mm	Alloy	41.8mm/6.9mm	Sealed Cartridge Stainless	95g (10 mm)	Campy			
	9.7 mm	Alloy	41mm/6.5mm	Sealed Cartridge	90g (10 mm)	Cane Creek Std			
	9.9/16.8/25 mm	Alloy	41.8mm/6.9mm	Sealed Cartridge	95g (10 mm)	Campy			
	6.8 mm	Steel	41.8mm/6.9mm	Sealed Cartridge	150g (10 mm)	Campy			
Logic	size	stack height	upper cone	upper cup	lower cup	crown race	upper bearing	lower bearing	weight
	1"	28 mm	7075	7075	7075	7075	Sealed Cartridge Stainless	Sealed Cartridge Stainless	110g
	1 1/8"	28.1 mm	7075	7075	7075	7075	Sealed Cartridge Stainless	Sealed Cartridge Stainless	125g
	1 1/8"	32 mm	6061	6061	6061	Steel	Sealed Cartridge	Sealed Cartridge	140g
	1 1/8"	30.2 mm	Steel	Steel	Steel	Steel	Cartridge	Cartridge	195g

## FORKS

Carbon Road Forks	headset compatibility	blade	crown	steerer	dropout	rake	weight	headset	
	Standard/Integrated	Carbon	Carbon	Carbon	Carbon	45	308g (uncut)	1 1/8"	
	Standard/Integrated	Carbon	Carbon	Carbon	Alloy	45	360g (uncut)	1 1/8"	
	Standard	Carbon	Carbon/Alloy	Alloy	Alloy	1"=45 / 1 1/8"=43	460g (uncut)	1 7/16"	
Carbon Cross Forks	headset compatibility	blade	crown	steerer	dropout	brake bosses	rake	weight	headset
	Standard/Integrated	Carbon	Carbon	Carbon	Alloy	Alloy	45	450g	1 1/8"
	Standard/Integrated	Carbon	Carbon	Alloy	Alloy	Alloy	45	684g (uncut w/ eyelet)	1 1/8"
Carbon Mtn Fork	headset compatibility	blade	crown	steerer	dropout	brake bosses	rake	weight	headset
	Standard/Integrated	Carbon	Carbon	Carbon	Carbon	Alloy	48	470g	1 1/8"

## TT BARS

Hammerhead Carbon TT	material	width	drop	reach	weight	finish	
	Carbon	38/40	0	-	600g	Carbon	
Probiscus TT	material	width	drop	reach	weight	finish	
	Forged 6061	38/40/42	80/0mm	Adjustable	850g	BB Black	
Prologue Bars	material	width	drop/reach	weight	finish	clamp dia.	
	Clip On	Forged 6061	Adjustable	Adjustable	626g	BB Black	31.8 (shim for 26.0)
	Base Bar	2014	40,42,44	50mm	210g	BB Black	25.8/26.0

## CRANKS (Licensed by Shimano® and compatible with Shimano's 8-spline crank bottom bracket)

Carbon Compact	model	arms	color	spider	BCD	teeth/outer ring mat.	teeth/inner ring mat.	lengths	BB type	weight
	Double	Carbon	Carbon	5 Arm	110	50/7075-CNC	34/Hardened Steel	170, 172.5, 175mm	Shimano® Octalink	548g
	Double	Carbon	Carbon	5 Arm	110	46/7075-CNC	36/Hardened Steel	170, 172.5, 175mm	Shimano® Octalink	548g
110 Crank	model	arms	color	spider	BCD	teeth/outer ring mat.	teeth/inner ring mat.	lengths	BB type	weight
	Double	2014	Black	5 Arm	110	50/7075-CNC	34/Hardened Steel	170, 172.5, 175mm	Shimano® Octalink	570g
	Double	6061 T-6	Black	5 Arm	110	50/7075-CNC	34/Hardened Steel	170, 172.5, 175mm	Shimano® Octalink	580g

## ROAD WHEELSETS

Protocol LTD Wheels	type	trims	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	front	WCS Protocol	WCS Star Flange	DT Aerolite Black	Alloy	20x1X	656g	Black	-
	rear (Shimano®9/10spd)	WCS Protocol OCR	WCS 240 Road	DT Aerolite Black	Alloy	24x2X	824g	Black	Alloy
	Campy® rear	WCS Protocol OCR	WCS 240 Road	DT Aerolite Black	Alloy	24x2X	840g	Black	Alloy
Carbon Wheels	type	trims	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	Tubular front	Carbon	WCS Road	Bladed 2.0 Black	Brass 2.0	16xRadial	578g	Carbon	-
	Tubular rear	Carbon	WCS Zero System Road	Bladed 2.0 Black	Brass 2.0	24x2X	758g	Carbon	Alloy
	Campy Tubular rear	Carbon	WCS Zero System Road	Bladed 2.0 Black	Brass 2.0	24x2X	799g	Carbon	Alloy
	Clincher front	Carbon/Alloy	WCS Zero	Bladed 2.0 Black	Brass 2.0	16xRadial	799g	Carbon	-
	Clincher rear	Carbon/Alloy	WCS Zero System Road	Bladed 2.0 Black	Brass 2.0	24x2X	949g	Carbon	Alloy
	Campy Clincher rear	Carbon/Alloy	WCS Zero System Road	Bladed 2.0 Black	Brass 2.0	24x2X	990g	Carbon	Alloy
Protocol Wheels	type	trims	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	front	WCS Protocol	WCS Star Flange Road	Bladed 2.0 Black	Alloy 2.0	20x1X	650g	Black	-
	rear (Shimano®10spd)	WCS Protocol OCR	WCS Zero System Road	Bladed 2.0 Black	Alloy 2.0	24x2X	810g	Black	Alloy
	Campy rear	WCS Protocol OCR	WCS Zero System Road	Bladed 2.0 Black	Alloy 2.0	24x2X	870g	Black	Alloy
Road DS Wheels	type	trims	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	front	WCS DS-27	WCS Star Flange Road	Bladed 2.0 Black	Alloy	16x1X	650g	Black	-
	rear	WCS OCR DS-28	WCS Zero System Road	Bladed 2.0 Black	Alloy	24x2X	834g	Black	Alloy
	front	Pro DS-27	Pro Road	Bladed 2.0 Black	Brass	20xRadial	778g	Black	-
	rear	Pro OCR DS-28	Pro Zero System Road	Bladed 2.0 Black	Brass	24x2X	1060g	Black	Cromo
	front	Comp DS-27	Comp Road	2.0 SG Black	Brass	20xRadial	830g	Black	-
	rear	Comp DS-28 OCR	Comp Zero System Road	2.0 SG Black	Brass	24x2X	1098g	Black	Cromo
Silhouette Wheels	type	trims	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	front	Comp Silhouette	Comp Road	2.0 SG Black	Brass	32x3X	N/A	Black	-
	rear	Comp Silhouette OCR	Comp Zero System Road	2.0 SG Black	Brass	32x3X	N/A	Black	Cromo

## MOUNTAIN WHEELSETS

WCS LTD Wheels	type	trims	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	front	WCS XC LTD	WCS Mtn	WCS 2.0/1.8 Black	Alloy 2.0	24xRadial	726g	Black	-
XC LTD	rear	WCS XC LTD OCR	WCS 240 Mtn	WCS 2.0/1.8 Black	Alloy 2.0	28x2X	862g	Black	Alloy
	front disc	WCS DISC LTD OCR	WCS Mtn Disc	WCS 2.0/1.8 Black	Alloy 2.0	28x3X	749g	Black	-
DISC LTD	rear disc	WCS DISC LTD OCR	WCS 240 Mtn Disc	WCS 2.0/1.8 Black	Alloy 2.0	28x3X	817g	Black	Alloy
XC/Disc Wheels	type	trims	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	front disc	WCS DISC OCR	WCS Disc	WCS 2.0/1.8 Black	Alloy 2.0	28x2X	775g	Black	-
	rear disc	WCS DISC OCR	WCS Zero System Disc	WCS 2.0/1.8 Black	Alloy 2.0	28x2X	885g	Black	Alloy
	front disc	Pro DISC OCR	Pro Skraxle Disc	Pro 2.0/1.8 Black	Brass 2.0	32x3X	860g	Black	-
	rear disc	Pro DISC OCR	Pro Zero System Disc	Pro 2.0/1.8 Black	Brass 2.0	32x3X	1075g	Black	Cromo
	front	Comp XC	Comp Mtn	2.0 SG Black	Brass	32x3X	N/A	Black	-
	rear	Comp XC	Comp Mtn Zero System	2.0 SG Black	Brass	32x3X	N/A	Black	Cromo

## PEDALS

Peloton Road	body	axle	inner bearing	outer bearing	weight	finish
	Alloy	Cromo	Bushing	Needle/Ball	240g (per pair)	Hi-Polish Silver
	Alloy	Cromo	Cartridge	Teflon Bushing	280g (per pair)	Black/Silver
Micro Road	body	axle	inner bearing	outer bearing	weight	finish
	Stainless Steel	Cromo	Bushing	Needle/Ball	208g (per pair)	Nickle
V4 Mountain	body	axle	inner bearing	outer bearing	weight	finish
	Titanium	Cromo	Bushing	Needle/Ball	248g (per pair)	Polished Ti
	Stainless Steel	Cromo	Bushing	Needle/Ball	280g (per pair)	Black/Silver
	Cromo	Cromo	Ball	Ball	340g (per pair)	Black

## ACCESSORIES

Ritchey offers a line of clothing and accessories. Product availability will vary by country. Accessories may be purchased through your local Ritchey retailer or on our website at [ritcheylogic.com](http://ritcheylogic.com). There you find the most up-to-date products, pricing and availability.





## INTERNATIONAL DISTRIBUTORS

 Argentina: Teniorbita	 Hungary: Velotrade	 Serbia and Montenegro: Planet Bike
 Australia: Dirtworks Australia Pty. Ltd.	 Hong Kong: Kung Sheung Cycle	 Singapore: Kian Hong Cycle
 Austria: KTM	 Israel: Matzman + Merutz	 Slovakia: Slovkolex
 Belgium: Team Sporting Goods	 Italy: www.ritcheylogic.com	 Slovenia: Pulzar
 Brazil: BASE International	 Japan: Tokyo San-Esu Co., Ltd.	 South Africa: Pro Bike
 Canada: Norco Products LTD	 Latvia: ZZK	 Spain: Comercial Pous
 China: Coretech	 Lithuania: Saginda	 Switzerland: Good Price Intercycle
 Columbia: UBS	 Luxembourg: Team Sporting Goods	 Taiwan: Partner Bike
 Croatia: Ciklo Center Dream Bikes Distribution	 Netherlands: Cosmic BV Tehava	 UK: Paligap Limited
 Czech Republic: Vokolek Import	 New Zealand: W.H. Worrall & Co.	 USA: Bicycle Technologies International Downeast Bicycle Specialists The Hawley Company Quality Bicycle Products Ritchey Design Security Bicycle Components Seattle Bike Supply
 Denmark: Bike Toyz	 Norway: Sportpartner	
 Estonia: Veloplus	 Philippines: Hans-Gee Enterprise	
 France: Gyro Winora France	 Poland: Matuszewski	
 Finland: Tarmin Oy	 Portugal: Castanheira & Castanheira Ltd Comercial Pous Tn Tao Natural	
 Germany: Cosmic Sports	 Russia: Sportclub Velomir Group	
 Greece: Nikos Maniatopoulos		



**RITCHEY DESIGN  
CORPORATE OFFICE**

620 Spice Island Drive  
Sparks, NV 89431  
www.ritcheylogic.com  
contact\_us@ritcheylogic.com

**RITCHEY DESIGN  
SALES & WARRANTY OFFICE**

575 Old County Road  
San Carlos, CA 94070  
tel – (650) 368.4018  
fax – (650) 261.1317



**RITCHEY INTERNATIONAL, LTD**

Via Cantonale 2, Grancia-Lugano  
CH-6916  
fax. 41.91.960.5221  
info@ritchey.ch



**RITCHEY DESIGN, INC.  
TAIWAN BRANCH**

22-1, #123 Chungang Rd. Sec 3  
Taichung 407  
Taiwan R.O.C.  
fax: 886-4-2358-9297