

RITCHEY



2008



TR's Workshop

OVER 30 YEARS OF DESIGN INNOVATION

Tom Ritchey is one-of-a-kind. He continues to juggle his duties as president and lead designer of our company, now distributed in over 40 countries, while still logging 10,000 miles a year all over the world. His latest passion is Project Rwanda, which strives to further economic

development in Rwanda through initiatives based on the bicycle. Inspiration often comes to him while out on a ride, generating ideas that he then processes as three-dimensional design images – in his head. This is followed by the creation of initial concept models, many of which he creates by fillet brazing pieces or scraps of frame tubing. It all comes naturally to a guy who taught himself to build frames as a teenager, and who designed some of the burgeoning mountain bike industry's first frames and components back in the 1970's. Every year Tom guides our R&D efforts in pursuit of both subtle improvements to existing products, or large-scale advances leading to new ones.



OVER 30 YEARS OF TESTING & VALIDATION

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. Throughout 2007 and 2008 we will double our testing capacity.

Once a product clears machine testing, prototype samples endure rigorous use by both amateur and professional riders alike, including our sponsored athletes around the world. By the time you put it on your bike, it has passed a global testing and approval process second to none.



M.O.A.B. Testing

Ritchey Design (USA) continues to work with over 100 regional grassroots and collegiate teams in all disciplines – road, cyclo-cross, mountain and triathlon – this year working more closely with clubs’ and teams’ sponsor bike shops. Across the water, Ritchey International (based in Lugano, Switzerland) happily continues to support countless road and mountain teams all over Europe. We will always support and be involved with racing, because it’s a cornerstone of our existence. Values like this come from the “top down,” as Tom Ritchey began his own career as an accomplished Junior road racer.



Everyone's talking about "systems" and why you need to buy in to theirs. At Ritchey we believe in choice, and we have always strived to make it possible for someone to use a Ritchey component seamlessly with those from other brands. Naturally we believe that the more Ritchey products you use, the better your bike will fit and perform, which is why "Fit Logic" is a philosophy we live by: from the input we solicit from men and women riders of all levels and disciplines, to our product development efforts, to our work with bike shops around the world. Participating Ritchey dealers have Fit Logic posters on hand that show you our comprehensive bar/stem/post offering at-a-glance, so you can know what's available from Ritchey that will help you feel more comfortable – and stronger – on your bike.



Ritchey WCS Carbon
1-Bolt Seatpost

- » WCS 4Axis 44 Stem with squared body profile, wider front cap and bar clamp bolt spacing & new “Wet Black” finish.
- » WCS Carbon Evolution SL road bar: the industry’s new benchmark in lightweight monocoque carbon bar design. The SL features UD (unidirectional) carbon construction combined with the same ergonomic shape that earned the original Evo bar its accolades from racers and recreational riders alike.
- » WCS Carbon Logic II road bar is the first bar on the market with reach and drop dimensions optimized for each bar width, extending Ritchey’s unsurpassed offering of comfort, fit and performance to women and smaller riders.
- » WCS Logic road bars, 4Axis stems, seatposts, and Flat and Lo-Rize mountain bars are now available in BB Black or our screamin’ new Wet Black finish.

- » WCS Carbon Single-Bolt seat post, or “SideBinder.” Tom Ritchey never rests on his laurels...
- » WCS Peloton road pedals are now flanked by our new WCS Echelon, which is Keo™ cleat-compatible.
- » The new WCS and Pro Carbon Road forks are even lighter and stronger, while offering 43mm and 45mm rake options.
- » WCS Carbon 38mm Tubulars & Clinchers round out Ritchey’s expanding wheel offering.
- » Z-Max Premonition & Z-Max Intuition mountain tires are now part of our unequaled World Cup title-winning tire line, and joined by the extremely popular Excavator Cross tire in a WCS version.



MATRIX CARBONALLOY

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



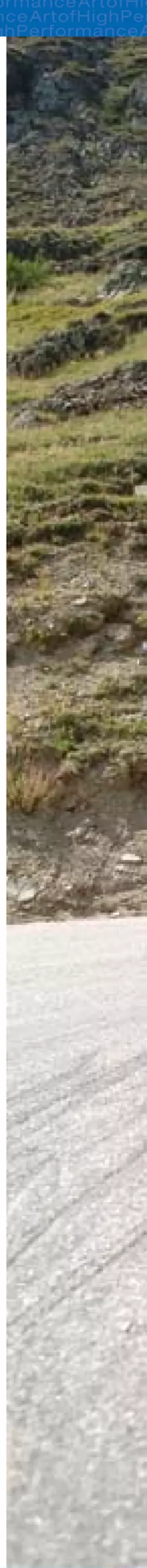
MATRIX™ TECHNOLOGY – The Best of Both Worlds — Matrix **carbon**alloy is another result of Tom's gift for metallurgy and his untiring ingenuity. It began with the realization that carbon stems were either too heavy or not strong enough, and resulted in Tom asking himself a couple of questions: How do we take a nearly perfect alloy component design, like the WCS 4-Axis stem, and improve on it? What if we could take the alloy base forms of existing alloy products, and case-harden them like you can steel? This led to the development of Ritchey's Matrix **carbon**alloy. We've merged carbon and alloy to develop products that benefit from the characteristics of both materials. By encasing alloy in high-modulus carbon fiber, our Matrix components boast increased fatigue strength and durability, making them tougher and stiffer than carbon alone, and stronger than alloy.

RITCHEY CARBON — Elevating the Game — When wielded properly, carbon fiber is an ideal material for building bicycle 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 rigorous conditions at the world's most prestigious events.

WCS™ (WORLD CHAMPIONSHIP SERIES) — Over the years, Ritchey components have carried riders to victory in countless events from the Olympics, to the World Cup, and World Championship titles. Using the latest technology and materials to create some of the world's most trusted, high performance components, Ritchey's WCS line sets the standard.

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 features race-caliber products at prices that will leave some money in your pocket. Top materials and manufacturing processes, often trickling down from our WCS technologies.

COMP™ — These parts are often considered our "value" line. That's an acceptable way to think of Ritchey Comp products, but only if you consider the high-level of design sophistication and features that go into these and all Ritchey products. Ritchey Comp will get the job done, but without compromise.



For the most up-to-date and complete product offering and product specifications, please visit us at ritcheylogic.com.

RITCHEY®

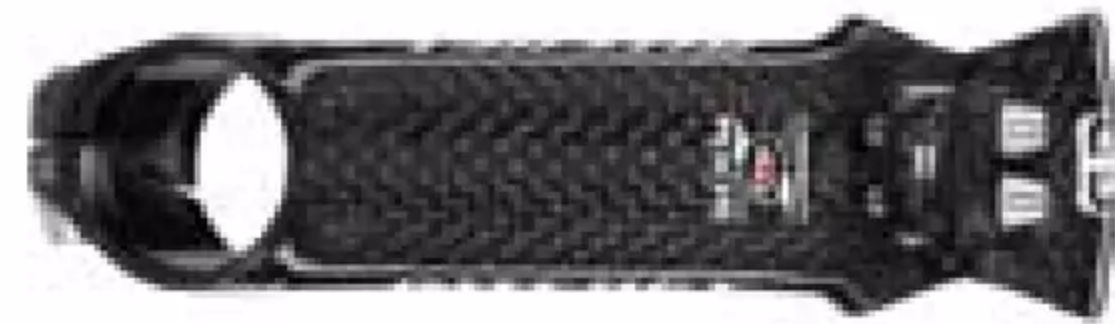


STEMS

Cyclo-Cross World Cup, Mountain Bike World Championships, ProTour, Spring Classics, Tour de France and the other Grand Tours – you name it, Ritchey handlebars, stems and seatposts are on the bikes of the world's best riders, women and men. We hear it all the time around the world, from prominent directeur sportifs to junior racing program coaches to bike publication reader polls: when it comes to high-end bike "cockpits," Ritchey is considered a top industry leader, with our WCS series one of the most respected in the world. Forged high-grade alloys, monocoque high-modulus carbon fiber, precision machined stainless steel, and titanium hardware... we use nothing but the best materials for each application to deliver the most performance from each product in our cockpit lineup. This year, our stem offering has expanded to include the WCS 4axis 44, featuring a new square design and 44mm clamp faceplate, and our lightweight PRO plus or minus 30-degree model for a more relaxed fit or aerodynamic positioning.



WCS CARBON 4AXIS™ STEM



Ritchey 4AXIS technology uses a tightly spaced 4-bolt faceplate which is forged and contoured to reduce notching of the handlebar from vibration. The bolts work in unison with each other and the cap to distribute flex and stress across a larger clamping area, providing added strength and security.

3D-NET™ SHAPED STEM FORGING

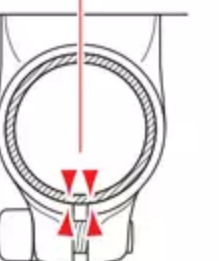
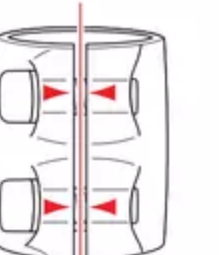
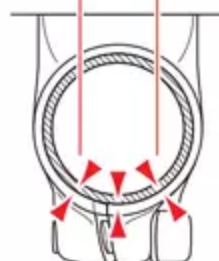
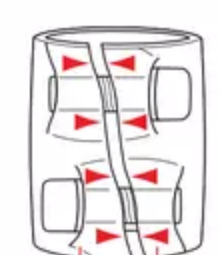
The renowned lightweight durability of Ritchey WCS, Pro and Comp stems is achieved through an advanced cold forge process called 3D Net Shaped Forging, allowing us to shape the stem in a single step while carefully controlling inner wall thickness. Cold forging allows us to compress, refine and align the grain structure of the aluminum and remove any internal imperfections before the material sets. As a result, less material can be used, while preserving unsurpassed strength & reliability.



Milled = weakened by gaps

BIAS CLAMP & OPPOSING BOLTS

Most stem clamps exert a tremendous amount of stress on the steerer tube and their own bolt threads. By angling the stem clamp "slot" and implementing opposing bolts, stress is dissipated more evenly across the clamp zone, resulting in a stronger, more secure hold with less torque. That's why Ritchey stems are among the few recommended for use with lightweight carbon fiber steerer tubes.





WCS CARBON 4AXIS™ STEM

Ritchey 4Axis stem design enhanced with Matrix **carbon**alloy technology

3D-Net forged 2014 alloy is encased in high-modulus carbon fiber for greater fatigue strength

Matrix **carbon**alloy is tougher & stronger than carbon or alloy alone

Bias cut clamp slot for a more secure, pinch-free hold of alloy and carbon steerer tubes

4Axis faceplate with legendary 4-bolt security and diminished linear clamp stresses

Taper-head titanium bolts for optimal strength to weight characteristics

124g (110mm)



WCS 4AXIS 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 taper head bolts

Available in BB Black and Wet Black (U.S. only)

125g (110mm/31.8)

NEW

WET BLACK FINISH



NEW WCS 4AXIS 44 STEM

4Axis stem technology with an all new squared body profile and a more aggressive appearance

Wider front cap (44mm) and bar clamp bolt spacing

Finish: Wet Black only

132g (110mm/31.8)



4AXIS



4AXIS 44



PRO 30°



5



COMP 30°



Ø31.8

2

**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)

40

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)

15

40

RITCHHEY ADJUSTABLE STEM

Over 45 degrees of height adjustment in either direction

3D-Net forged 6061 shaft interconnects with a precision machined clamp to create the strongest, lightest, most secure adjustable stem available

Stainless steel bolts

245g (80mm/31.8)

(30)

RITCHEY



ROAD BARS

Like Ritchey stems, our handlebar offering is unrivaled, providing performance for every type and level of rider. Reach, drop, sweep, ergonomics and – where applicable – aerodynamics are optimized for each individual series. With the introduction of our Logic II line, individual characteristics are customized for each model for unprecedented fit. High modulus carbon fiber enables us to further refine the performance and functionality of our designs, adding sweep and shaped tops that mesh with the natural orientation of arms and wrists, relieving stress and providing ergonomic support for the palms and heels of your hands. The new superlight WCS Carbon Evolution™ SL is a benchmark in carbon bar design, combining unsurpassed ergonomics, strength and light weight.



WCS CARBON EVOLUTION™ SL

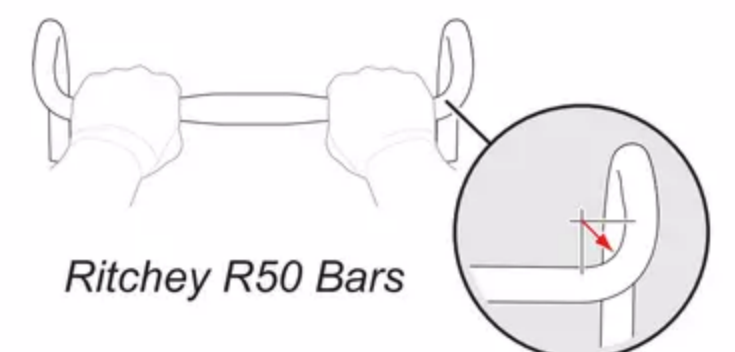
LOGIC, LOGIC II & CLASSIC

Multiple hand positions are critical to a good road bar. Modifying one position often affects the others, so different models are necessary to satisfy the individual needs of different riders. The R75 bend of our Classic bars offers a more gradual transition curve from tops to levers, providing lots of forearm clearance for sprinters and track racers. Classic bars also feature traditional, round drops. Ritchey's R-50 Logic bend tightens the angle from tops to levers, creating 30% more space on the tops, and also features a flat section in the drops for enhanced ergonomics and braking. The R65 bend of our new Logic II series represents a middle ground between Logic and Classic. Logic II also features specific reach and drop characteristics for each width, providing an ideal shape for riders of all sizes.

Ritchey Classic Bars



Ritchey R50 Bars





NEW WCS CARBON EVOLUTION™ SL

New superlight version of the popular Evolution bar featuring unidirectional carbon monocoque

Smooth transition lines to levers and moderate drop for quick access down low

Ergonomic upper section with 3 degree back-sweep

Extended 31.8 center section is compatible with clip-on aero bars

Sanded stem and brake lever mount sections for no-slip component grip

38cm width features shorter 75mm reach for smaller riders

Finish: Unidirectional carbon or 3K carbon weave (original Evolution)

Evo SL: 190g (42cm)

Evo: 220g (42cm)



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)



NEW WCS CARBON LOGIC® II

The latest version of our legendary carbon Logic bar features customized reach and drop for different bar widths

Unidirectional carbon monocoque construction

Extended 31.8 center section is compatible with clip-on aero bars

Textured stem and shifter clamp areas reduce risk of slippage

R65 bend allows for more forearm clearance while sprinting

2 degree flare on drops

Deep groove hides cables

Finish: Unidirectional carbon

190g (42cm)

PRO CARBON LOGIC®

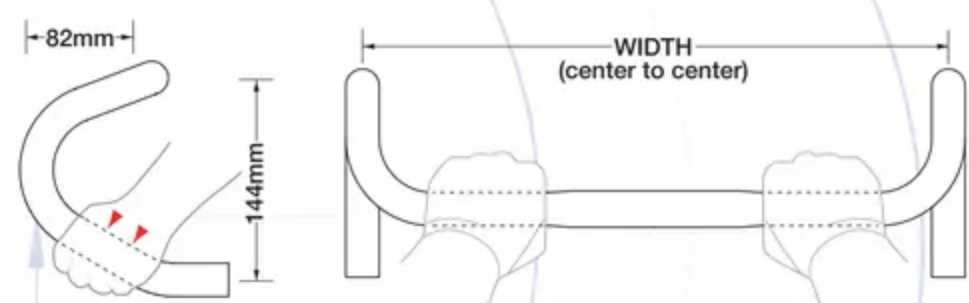
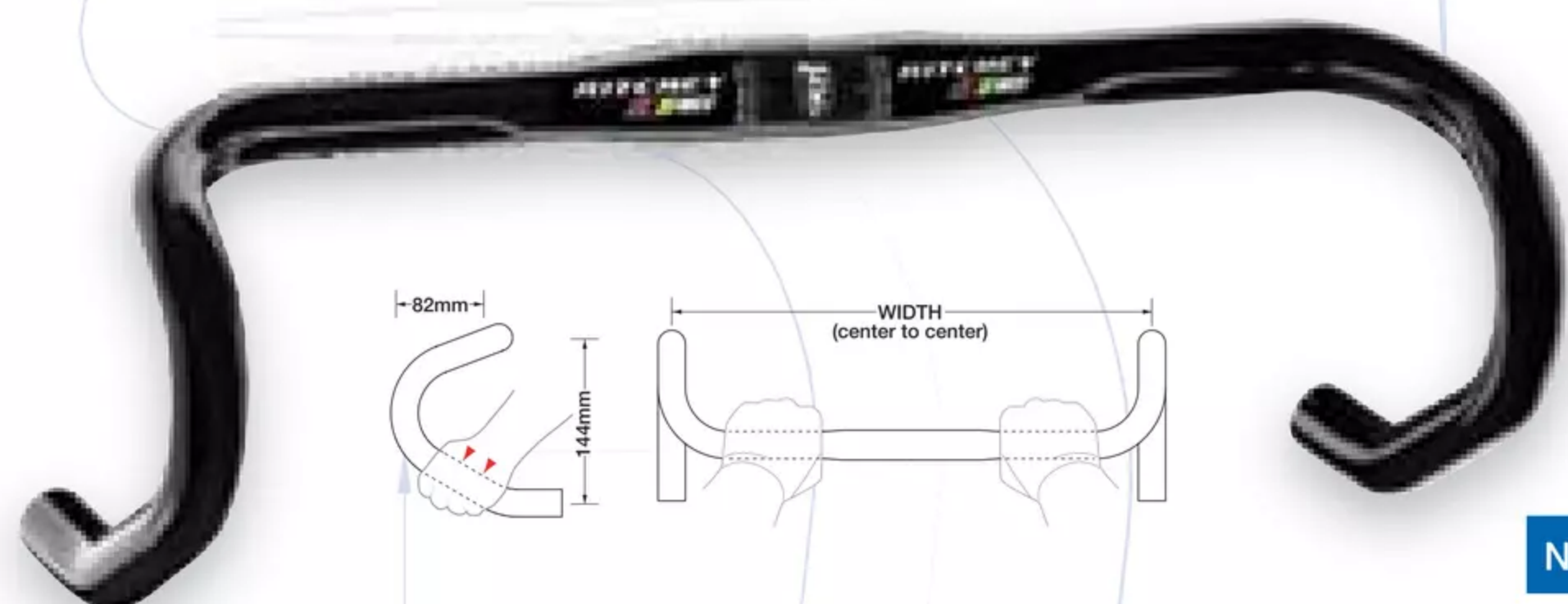
Matrix carbonalloy technology produces a road bar with an unheard of strength:weight ratio

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 aero bars

260g (42cm)



NEW

WET BLACK FINISH

WCS LOGIC®

Made from TRX50 seamless, triple butted alloy

Anatomical bend drops

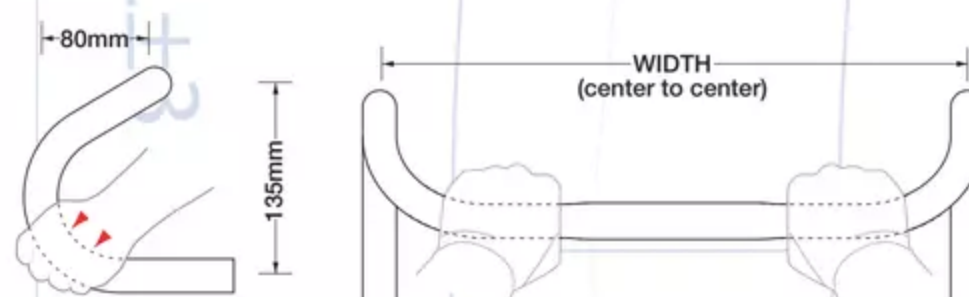
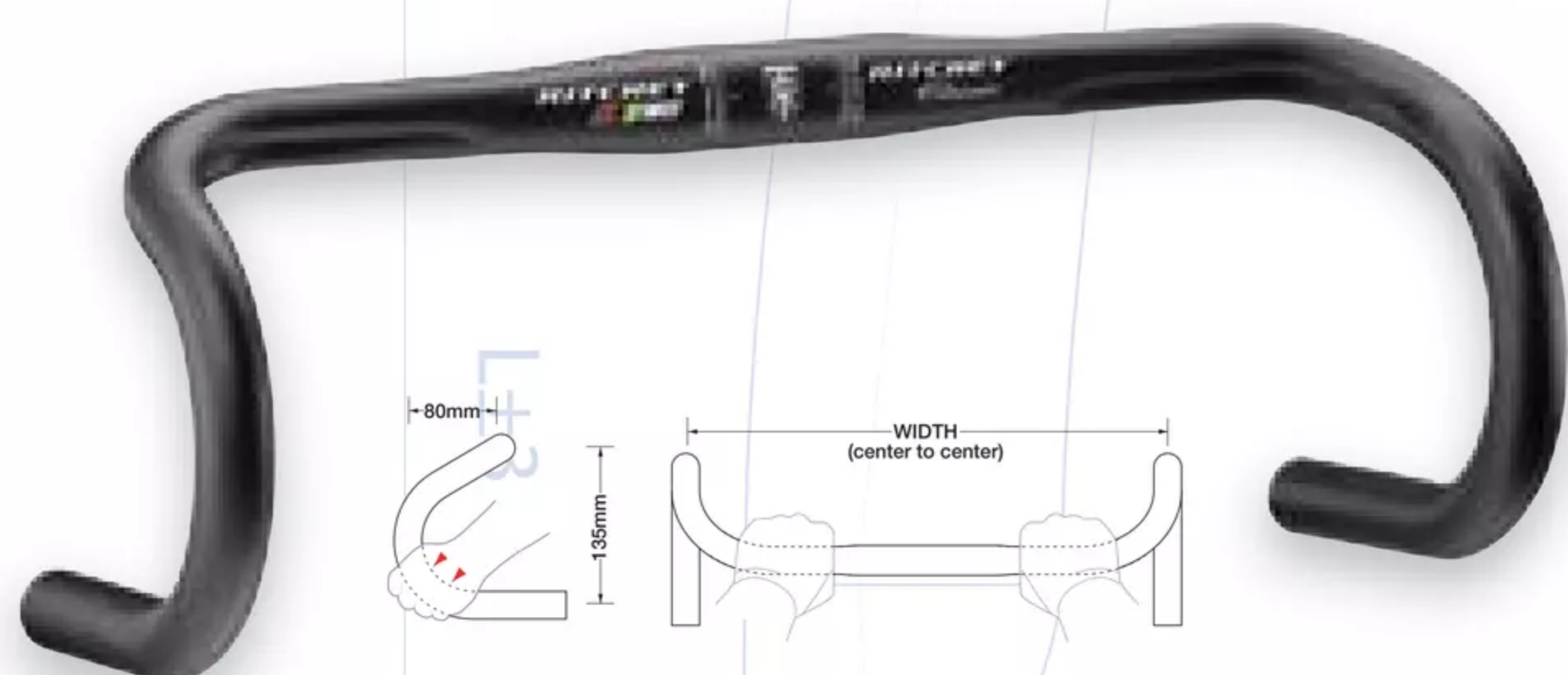
Available in 25.8 or 31.8 OS clamp section for improved stiffness and durability

Logic = Ergonomic shape and R50 bend for more comfort and hand positions

Deep groove hides cables

Finish: BB Black or Wet Black (31.8 only)

235g (42cm/31.8)

**WCS CLASSIC™**

Made from TRX50 seamless, triple butted alloy

25.8 or 31.8 OS clamp sections

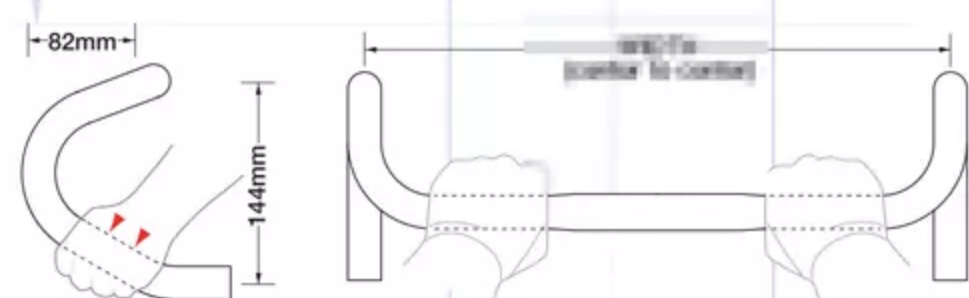
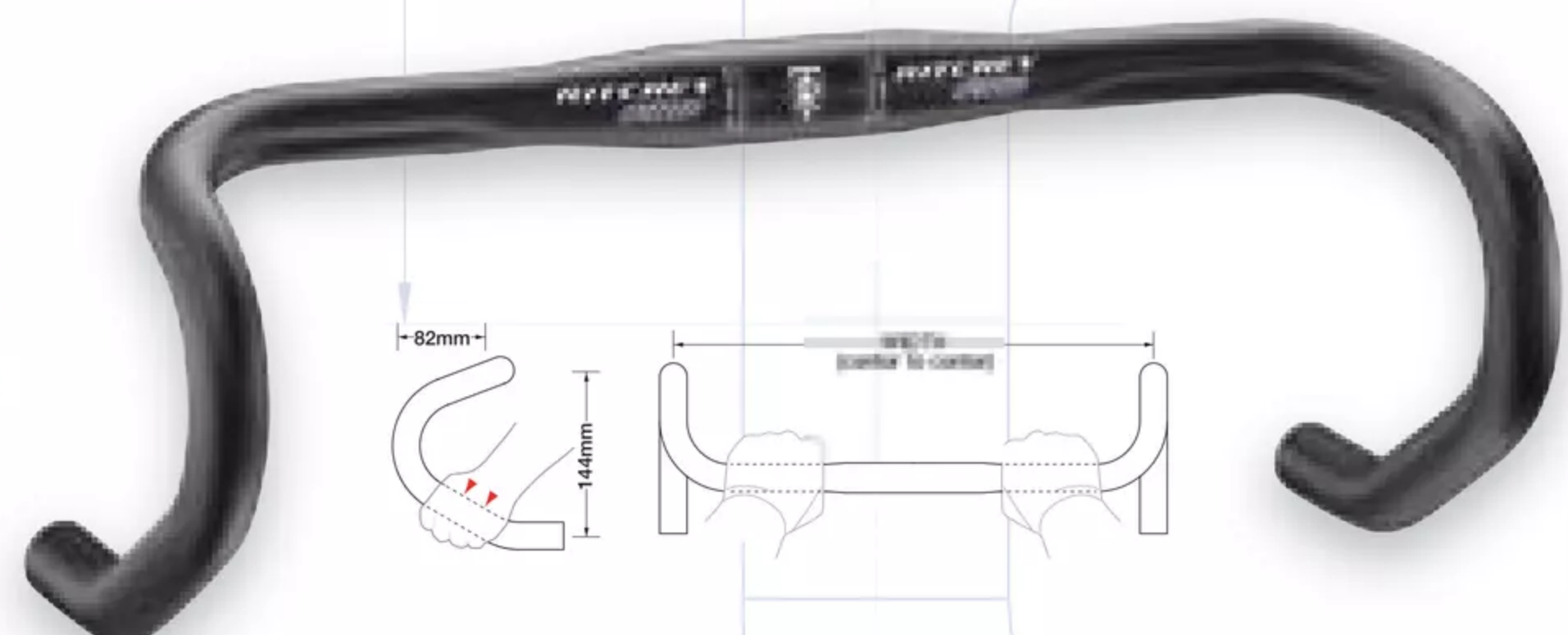
Round drop shape as favored by racers and traditionalists

R75 bend for forearm clearance while sprinting

Deep groove hides cables

235g (42cm/31.8)

Carbon Classic model also available (Europe only)

**PRO LOGIC®**

Made from 7075 T-6, triple butted alloy

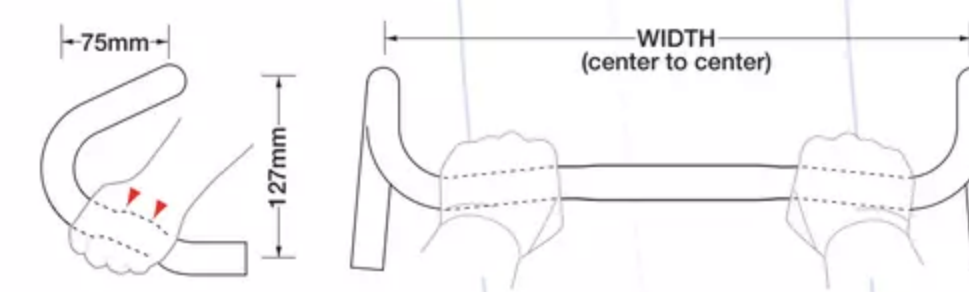
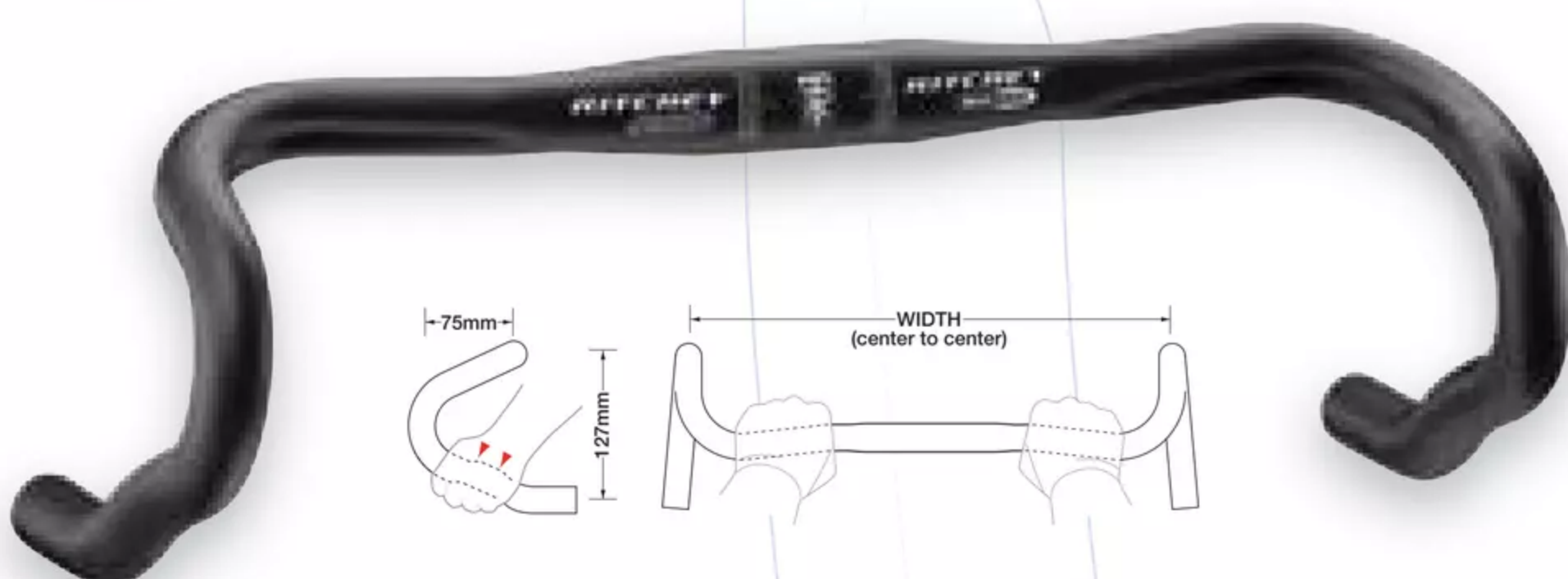
Logic = Ergonomic shape and R50 bend for more comfort and hand positions

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**

Our most ergonomic bar shape is popular with road and cross racers

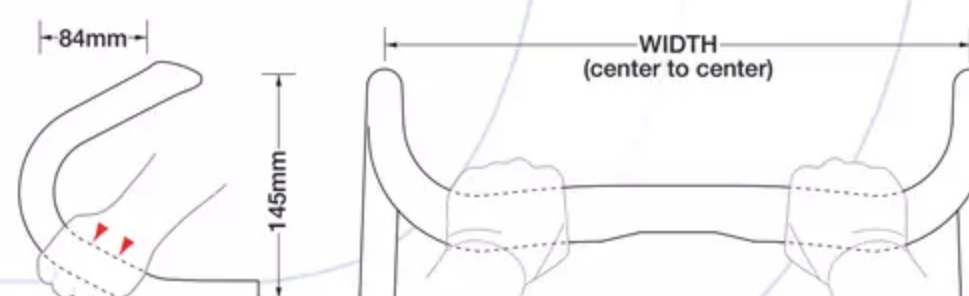
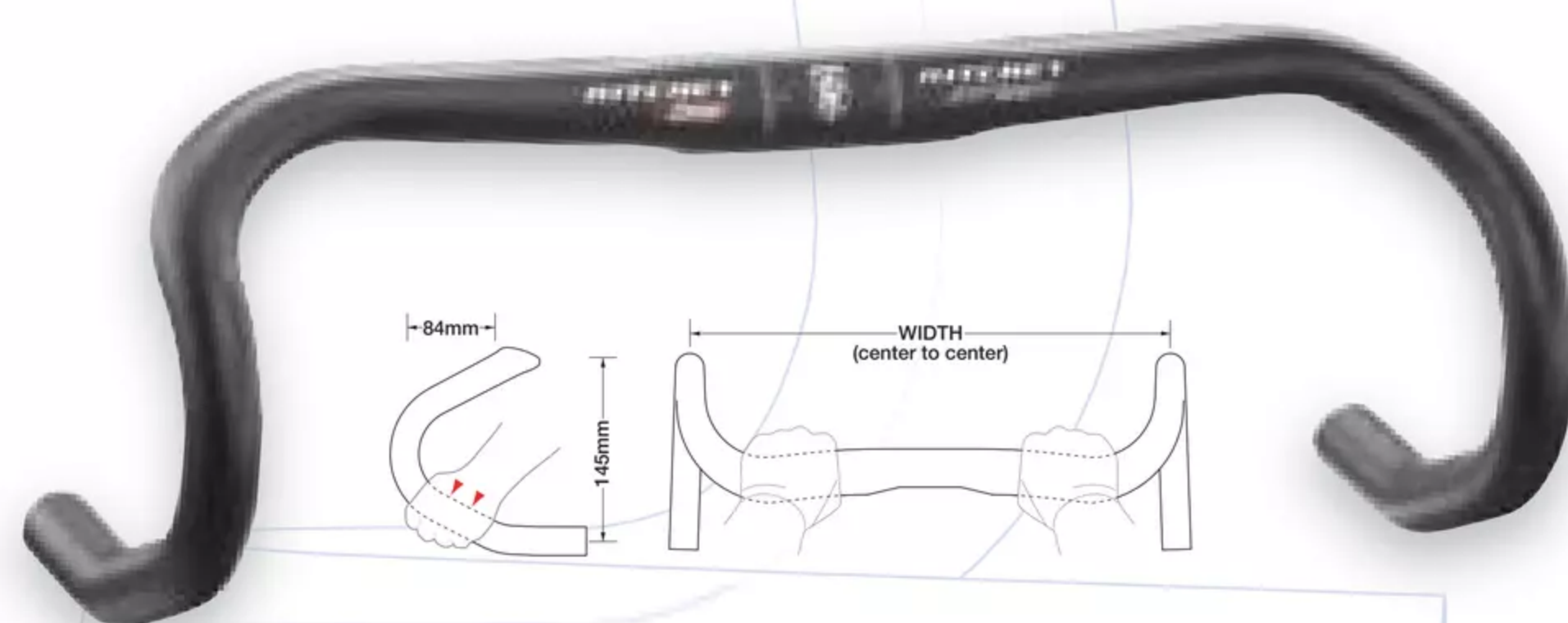
Ergo bump helps to increase steering input

25.8 or 31.8 OS clamp sections

6 degree swept-back tops, 5 degree flare, Ergo bump and shallow (127mm) drop for more a comfortable riding position

R50 bend for more hand room on top

270g (42cm/31.8)

**COMP STREEM™**

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)



RITCHEY



MOUNTAIN BARS

Mountain handlebar design is full of nuance; bend, rise, sweep and width seem like subtle details, yet their impact on performance is dramatic. Tom Ritchey has been making off-road bars for decades, and his designs have not only been a staple on the World Cup cross country circuit, but have often dominated it, claiming multiple World Championship titles along the way. A perfect blend of light weight and strength, Ritchey mountain bars are rugged and tough, but clean up nice...



CARBON RIZER



CARBON LOW RIZER



CARBON FLAT BAR

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: 185g / Low Rizer: 190g / Flat: 135g
- For complete specs see pg 49



PRO CARBON RIZER



PRO CARBON FLAT

PRO CARBON RIZER™ BAR

Textured center section for max stem clamp 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

PRO CARBON FLAT BAR

Textured center section for max stem clamp grip
Matrix **carbon** alloy construction = superb toughness and strength
TRX 50 triple butted inner
600mm width
Weight: 165g



WCS RIZER



PRO LOW-RIZER

NEW

WET BLACK FINISH



WCS LOW-RIZER

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 49
Finish: BB Black or Wet Black (WCS low-rizer only)

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 Flat bar specs see pg 49
Finish: BB Black or Wet Black (WCS)

NEW

WET BLACK FINISH



WCS FLAT



WCS FLAT



PRO FLAT

NEW WCS SL BAR ENDS

Angled clamp slot reduces stress on lightweight bars
3D-Net shaped cold forged one-piece design
Constructed of 6061 alloy
65g



PRO ERGO BAR ENDS

Pro ergo model has increased inward sweep – perfect for use on riser bars
Angled clamp slot reduces stress on lightweight bars
6061 alloy 3D-Net shaped cold forged one-piece design
130g



PRO BAR ENDS (NOT SHOWN)

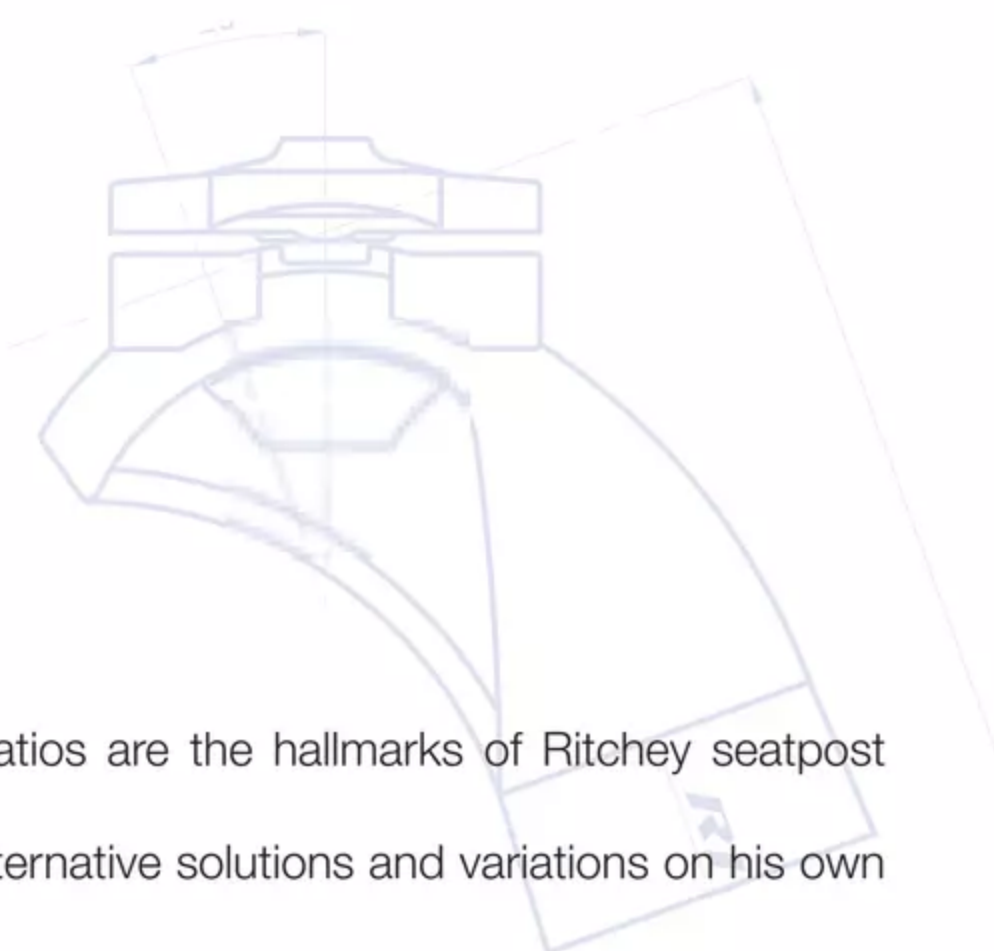
Angled clamp slot reduces stress on lightweight bars
3D-Net shaped cold forged one-piece design
BB Black
104g (100mm)
Also available in Comp version

Art of High Performance Ritchey

The Ritchey logo is displayed in a blue-bordered box in the top left corner. It features the word "RITCHEY" in a stylized, italicized, white font with a registered trademark symbol, set against a dark blue background.



SEATPOSTS

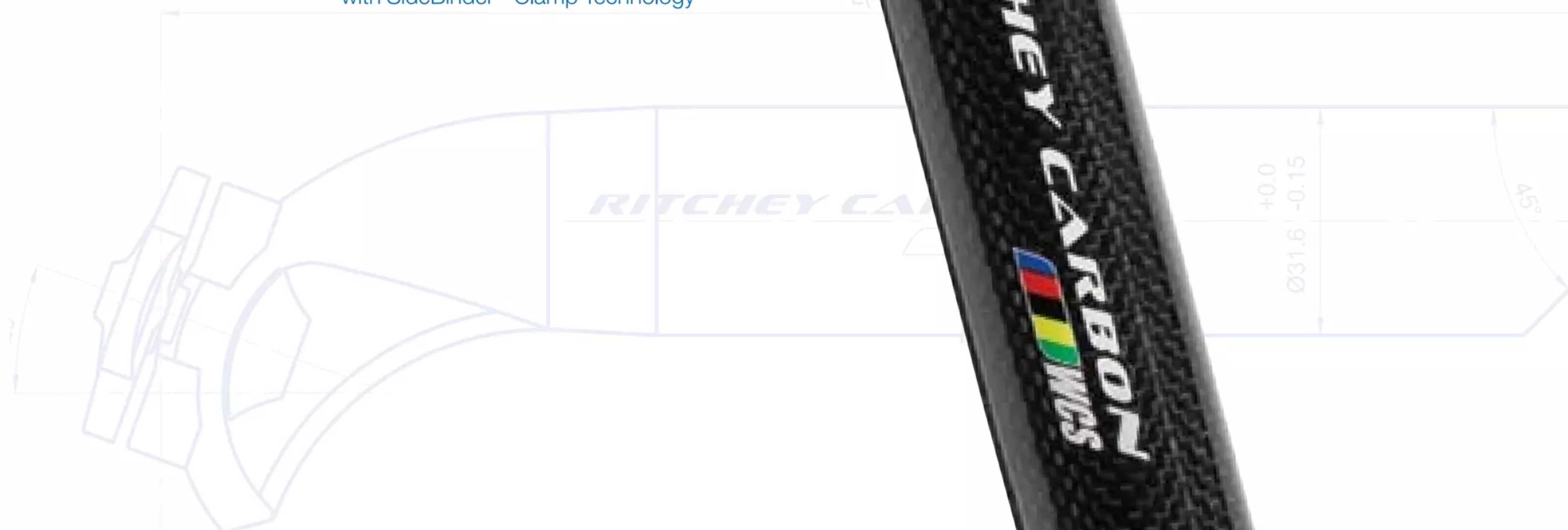


Dependability, smooth infinite adjustment, elegant finish and optimal strength-to-weight ratios are the hallmarks of Ritchey seatpost design. Even when Tom has already set the industry standard, his mind is contemplating alternative solutions and variations on his own themes. His latest patented clamp design, nicknamed the SideBinder™, crowns our new WCS 1Bolt Carbon seatpost. Precision forging, super-slick installation and adjustment, and distinctive looks – another classic Ritchey post.



WCS CARBON 1BOLT POST

with SideBinder™ Clamp Technology





NEW WCS CARBON 1BOLT SEATPOST

High-modulus, monocoque carbon fiber construction for stability
Precision forged alloy clamp assembly for strength and reliability
Single 5mm allen key access for ease of installation and adjustment
Low-profile head for optimal saddle clearance and sleek lines
175g (27.2/350mm)



45MM OFFSET
AVAILABLE IN
31.6/350mm

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
186g (27.2/350mm)



PRO RITCHEY CARBON SEATPOST

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)



NEW

WET BLACK FINISH

WCS SEATPOST

- One piece 3D-Net forged 7075 alloy
- Two-bolt design 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)
- Finish: BB Black or Wet Black



PRO SEATPOST

- One piece 3D-Net forged 2014 alloy
- Two-bolt design 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 SEATPOST

- One piece 3D-Net forged 6061 alloy
- Two-bolt design 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)





HEADSETS

Our headsets don't always get the attention they deserve; beautiful handlebars and stems can be so distracting... But this component is the interface between frame, fork and stem, and the basis for precision steering. Ritchey headsets are designed to take the abuse of bad roads and tough trails, while delivering smooth, reliable performance over the long haul.



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 CARBON DROP IN

Full carbon top bearing cover and compression top cap
Titanium-coated steel cartridge bearings
Also available in alloy WCS, Pro (Cane Creek and Campagnolo compatible), and Comp
16.8mm stack height
69g (WCS Carbon)



WCS



PRO

WCS CARBON PRESS FIT

Full carbon top bearing cover and compression top cap
Titanium-coated steel cartridge bearings
7075 alloy bearing cups
Also available in alloy WCS, Pro and Comp
18mm stack height
86g (WCS Carbon)



WCS



PRO



PRO



COMP

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
Also available in Pro and Comp
110g (WCS)



RITCHEY CARBON SPACERS

Available in 5mm and 10mm precut heights in carbon or alloy
Outer diameter is contoured to blend with Ritchey stem OD
CNC cut to ensure a perfectly accurate flush fit



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

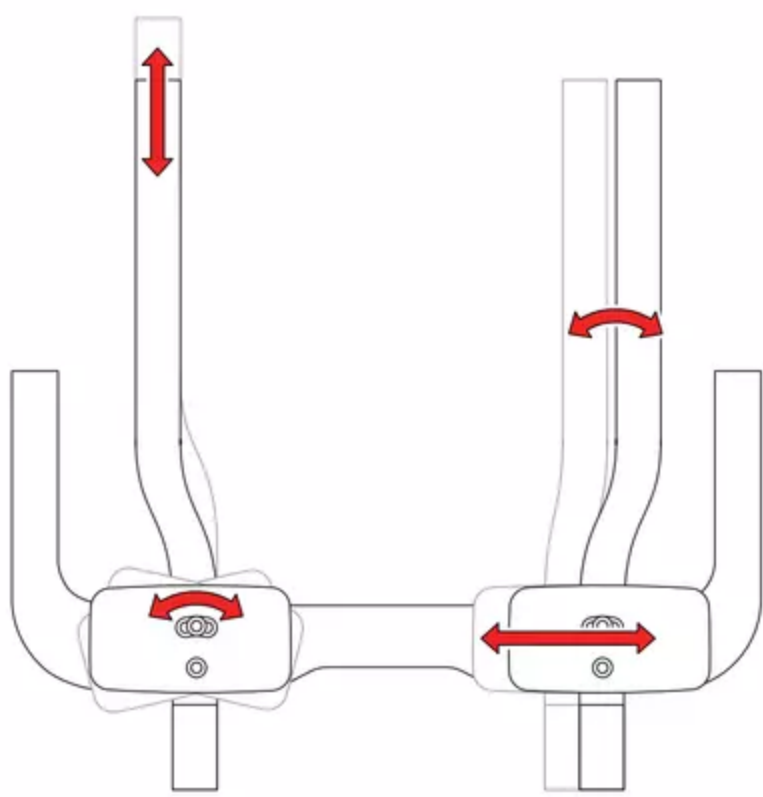
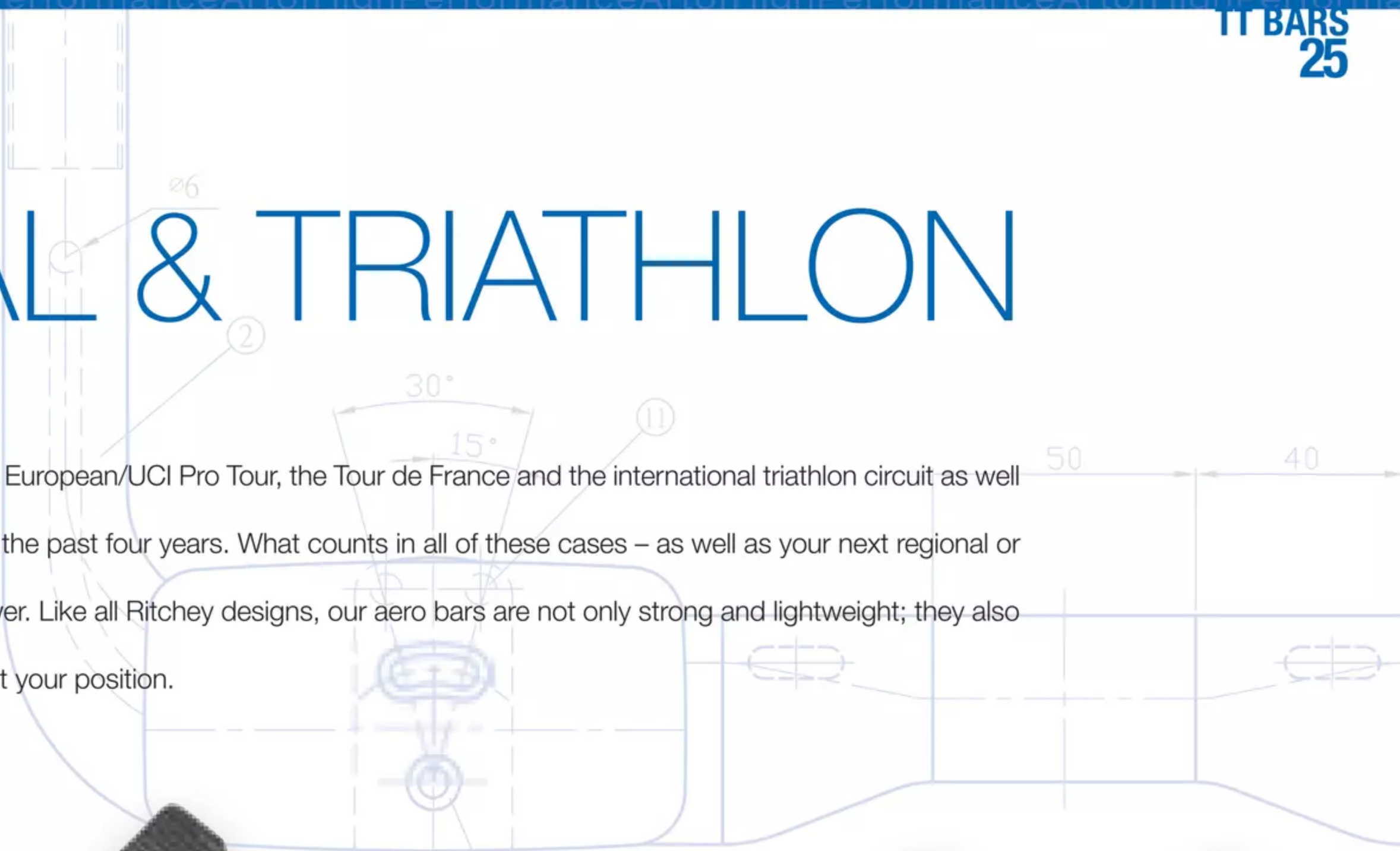
Seamless, bead-blasted 6061 aluminum
Bolt-on time trial bars
Wide range of adjustments for reach, angle and armrest width
31.8 O/S (w/reducer for 25.8)
626 grams (clip-on only)





TIME TRIAL & TRIATHLON

Ritchey aero bars have scored prestigious wins on the European/UCI Pro Tour, the Tour de France and the international triathlon circuit as well as dominating the North American pro road scene for the past four years. What counts in all of these cases – as well as your next regional or local event – is cheating the wind and maximizing power. Like all Ritchey designs, our aero bars are not only strong and lightweight; they also offer a myriad of adjustment options letting you perfect your position.

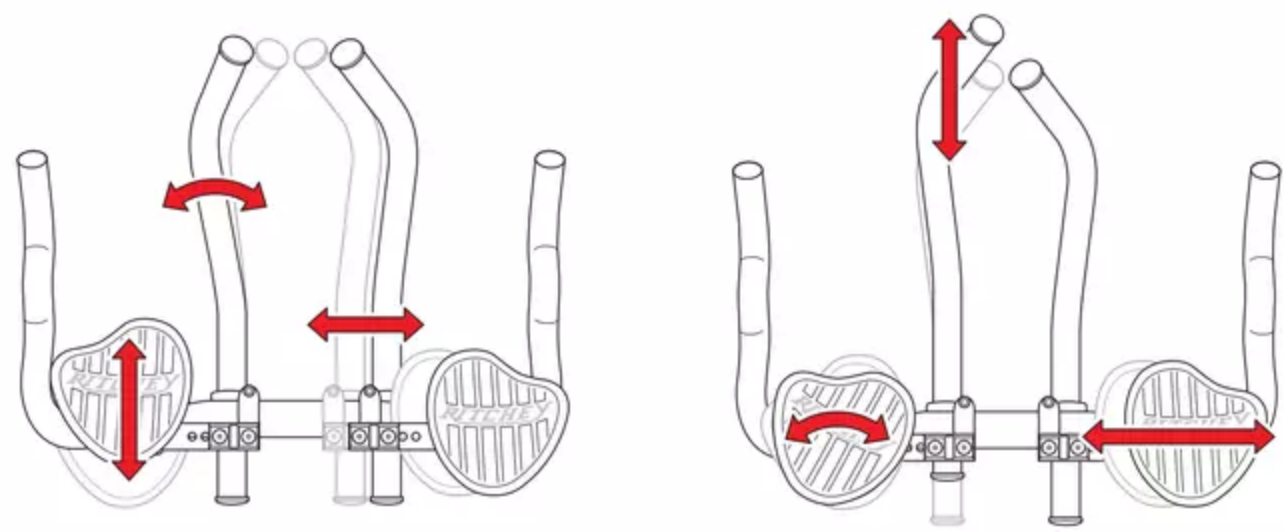


HAMMERHEAD TT
BAR ADJUSTMENTS

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)
- Finish: 3K Carbon
- 600g (40mm)

PROLOGUE CLIP-ON W/EVOLUTION SL ROAD BAR



PROLOGUE
CLIP-ON BAR
ADJUSTMENTS

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

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



PRO MICRO ROAD

One of the lowest pedal platform to shoe sole heights on the market, providing an improved biomechanical position

Super low-profile cleat design

Forged Stainless steel body

5 degrees of float

Adjustable spring tension

Only 208g (pair)



WCS PELOTON™ ROAD

Forged alloy body with BB Black finish

Nylon / carbon claw for easy entry and exit

Cromoly axle

5 degrees of float

Adjustable spring tension

Needle bearing for maximum load distribution

240g (pair)

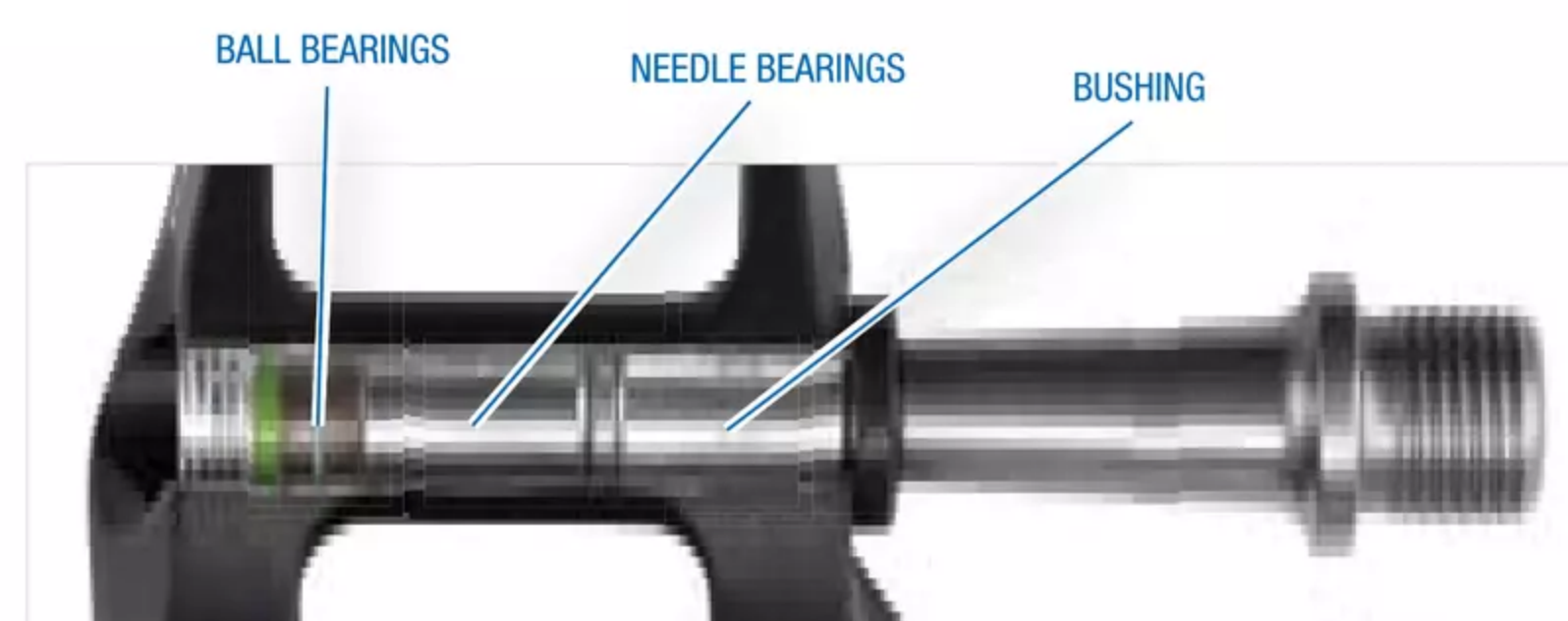


ROAD PEDALS

Tom has long been a proponent of pedal systems that are universal in function, but unique in their individual design. The WCS Peloton is DELTA™ cleat compatible, while the new WCS Echelon works with Keo™ cleats*. Tom's PRO Micro V4 is the successful result of his quest to create a road pedal with an absolute minimalist design. All three models are designed around low-profile platforms for maximum pedaling efficiency and power transfer.



CROSS SECTION OF ECHELON AND PELOTON BEARING SYSTEM



NEW WCS ECHELON™ ROAD

- Forged alloy body with BB Black finish
- High strength nylon / carbon claw for easy entry and exit
- Cromoly axle
- Adjustable spring tension
- Ball bearing, needle and bushing system for maximum axle support
- 230g (pair)
- * Keo™ red = 4.5° float / Keo™ gray = 0° float





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)



MOUNTAIN PEDALS

The V4 series of mountain bike pedals is a study in function and refinement. These three models are built on the foundation of a pedal system renowned for security, durability and dependability. If you add to the mix Tom's attention to every imaginable detail, as well as his ability to continually improve his products, what you get is optimal strength, stability and weight characteristics combined with a super-low profile cleat/pedal interface and smooth cleat engagement and disengagement.



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)

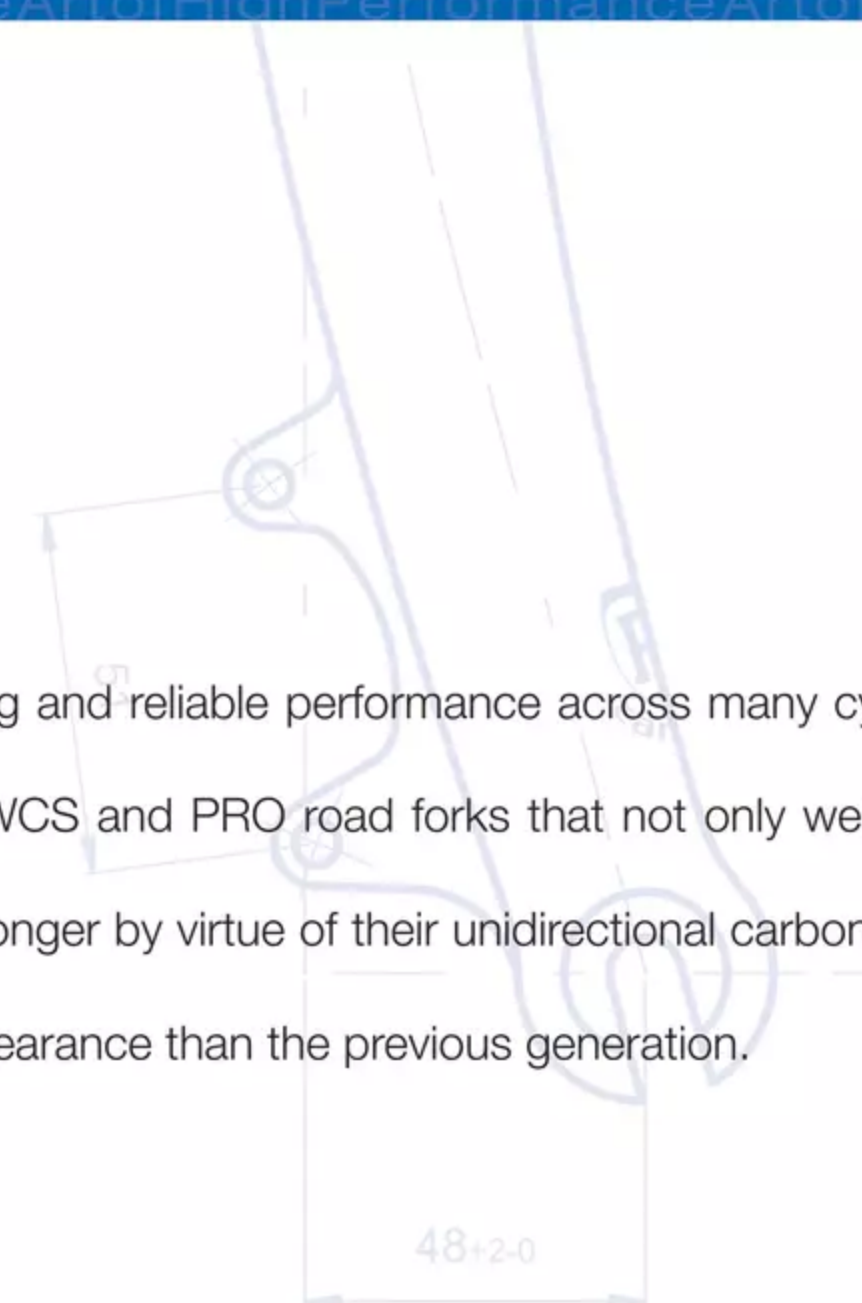


RITCHEY



FORKS

Our carbon fork line provides comfort, precision steering and reliable performance across many cycling disciplines. This year we've upped the ante with new WCS and PRO road forks that not only weigh-in under the 300 gram benchmark (WCS), but are also stronger by virtue of their unidirectional carbon fiber monocoque construction, and are even stealthier in appearance than the previous generation.



NEW WCS CARBON ROAD

- One Piece Monocoque high Modulus Carbon construction
- 45mm crown diameter
- 45 or 43mm rake options
- Alloy dropouts
- Finish: Unidirectional carbon
- 298g (uncut steerer)



NEW PRO CARBON ROAD

- One Piece Monocoque high Modulus Carbon construction
- 45mm crown diameter
- 45 or 43mm rake options
- Alloy dropouts
- Finish: Unidirectional carbon
- 345g (uncut steerer)

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





WCS MOUNTAIN



WCS CROSS



COMP CROSS

WCS CARBON MOUNTAIN

- 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: 510g

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
- Rack eyelets

Carbon Road	headset compatibility	blade	crown	steerer	dropout	rake	axle to crown	weight (uncut)	headset	
	Standard/Integrated	Carbon	Carbon	Carbon	Alloy	43 or 45	368mm	298g	1 1/8"	
	Standard/Integrated	Carbon	Carbon	Carbon	Alloy	43 or 45	368mm	345g	1 1/8"	
	Standard	Carbon	Carbon/Alloy	Alloy	Alloy	1"=45 / 1 1/8"=43	368mm	550g	1"/1 1/8"	
Carbon Cross	headset compatibility	blade	crown	steerer	dropout	brake bosses	rake(mm)	axle to crown	weight (uncut)	headset
	Standard/Integrated	Carbon	Carbon	Carbon	Alloy	Alloy	48	400mm	450g	1 1/8"
	Standard/Integrated	Carbon	Carbon	Alloy	Alloy	Alloy	45	388mm	684g	1 1/8"
Carbon Mtn	headset compatibility	blade	crown	steerer	dropout	brake bosses	rake	axle to crown	weight (uncut)	headset
	Standard/Integrated	Carbon	Carbon	Carbon	Carbon	Alloy	48	410mm	510g	1 1/8"

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

110mm bolt circle diameter allows a wider range of chainring selection, giving you almost the same gearing as a triple with the lighter 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

Available in the U.S. only



Cranks	model	arms	color	spider	BCD	teeth/outer ring material	teeth/inner ring material	lengths	BB type	weight
	Double	2014	Black	5 Arm	110	50/7075-CNC	34/Hardened Steel	170,172.5, 175mm	Shimano® Octalink	598g
	Double	2014	Black	5 Arm	110	48/7075-CNC	38/Hardened Steel	170,172.5, 175mm	Shimano® Octalink	598g



RITCHEY



ROAD WHEELS

When you sponsor over a hundred regional road and cyclocross teams, you need to provide race wheels that rise up to the challenge.

Our high profile carbon tubulars and clinchers are hand built, race proven and uncompromising. Our alloy line also delivers, with models that stand up to the rigors of training and racing, while boasting lateral stability and vertical compliance. Precision bearings, zero dish rear wheels and DT spokes and nipples keep these hoops fast and true. And our clincher rims' machined braking surfaces help you stop on a dime when you need to, or feather your speed on the way into a tight hairpin.



WCS CARBON 58MM 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
Compatibility: SRAM 10/Shimano 9-speed,
Shimano 10 speed or Campagnolo 9/10 speed
Serialized with a full warranty
Tubular weights:
Front: 578g
Rear Shimano: 758g
Rear Campy: 799g
Clincher weights:
Front: 799g
Rear Shimano: 949g
Rear Campy: 990g
Clincher available in US only



CLINCHER

NEW WCS CARBON 38MM TUBULARS & CLINCHERS

Aerodynamic 38mm rim depth won't catch as much cross-wind as our 58mm design
Front: WCS Star Flange hub, 20H 1X
Rear: WCS Zero System hub, 24H 2X
DT New Aero spokes
Clinchers: Front: 728g / Rear: 938g
Compatibility: SRAM 10/Shimano 9-speed,
Shimano 10 speed or Campagnolo 9/10 speed

WCS ZERO SYSTEM HUB



TUBULAR





WCS PROTOCOL™ LTD

Swiss made hubs with precision bearing and ratchet 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

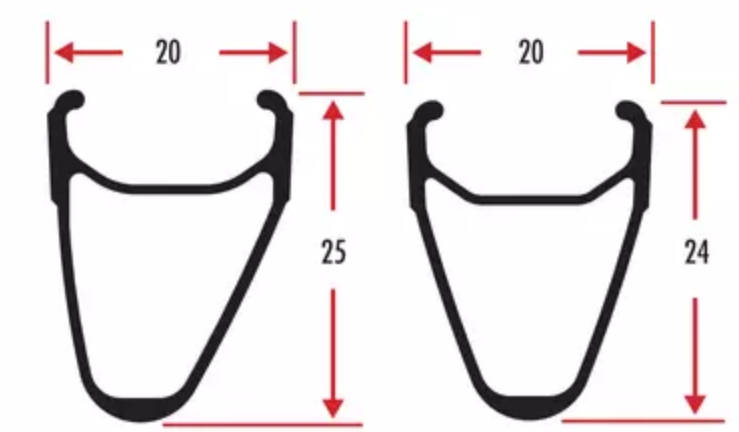
DT Aerolite stainless spokes / alloy nipples

24mm front / 25mm rear rim profile

20h front / 24h rear drilling

Machined braking surface

Front: 656g / Rear Shimano: 824g / Rear Campy: 840g



REAR OCR

FRONT

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)

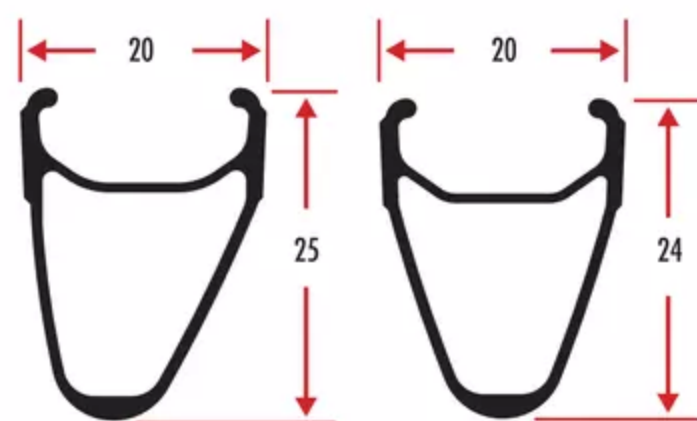
High tolerance machined sidewalls

Compatibility: SRAM 10/Shimano 9-speed, Shimano 10 speed or Campagnolo 9/10 speed

Serialized with a full warranty

Front: 650g / Rear Shimano: 898g / Rear Campy: 898g

Available in silver or black



REAR OCR

FRONT



PRO Z DEEP SECTION (DS)

OCR rim and Zero System hub eliminates dish

Aerodynamic 27mm front/28mm rear profile and 20H w/1x front / 24H w/ 2x rear

DT New Aero spokes

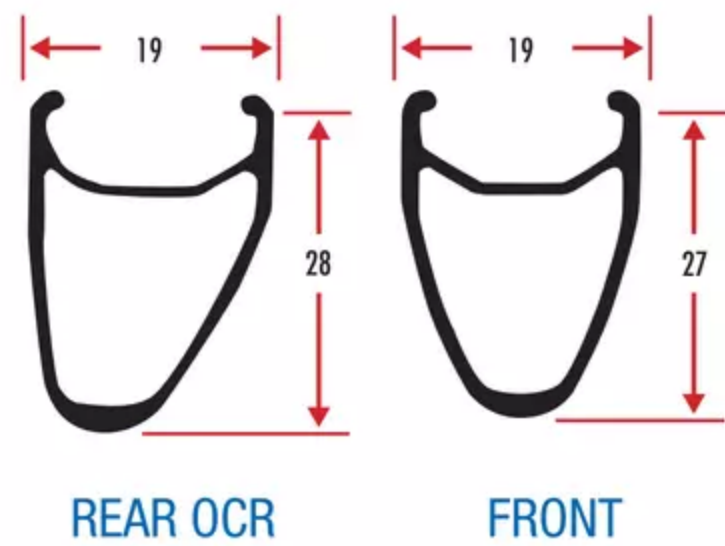
Cold forged and machined Pro hubs

Smooth, low maintenance custom cartridge bearings packed with Ritchey grease

High tolerance machined sidewalls

Serialized with a full warranty

Front: 778g / Rear Shimano: 1060g



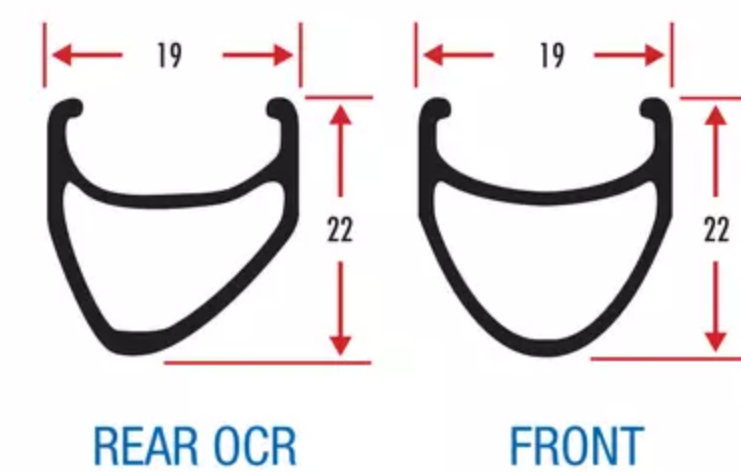
COMP SILHOUETTE™

Excellent training or cyclocross wheelset

Completely serviceable bearing / cone system

Vertically compliant for rough roads

U.S. only



RITCHEY





MOUNTAIN WHEELS

Tom Ritchey has always ridden all of his wheels – road or mountain – off-road. He understands what it takes to build wheels that seem to roll forever, while also proving sturdy enough to handle your favorite stretches of single-track at speed. DT double-buttressed spokes, alloy nipples and zero dish make them strong, lightweight and smooth through the turns.

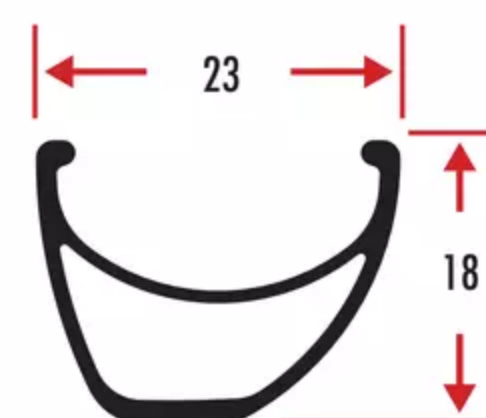
WCS DISC LTD & XC LTD

- Swiss made mountain rear disc hub with precision bearing and ratchet system
- Ritchey designed forged hi-lo rear hub flange eliminates dish tension problems
- Handbuilt
- DT double-buttressed 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)



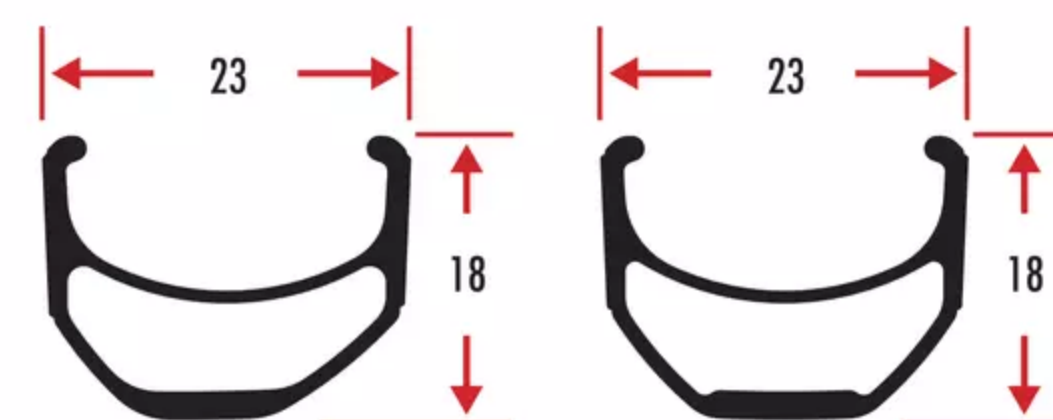
MOUNTAIN RIM CROSS SECTIONS

DISC LTD



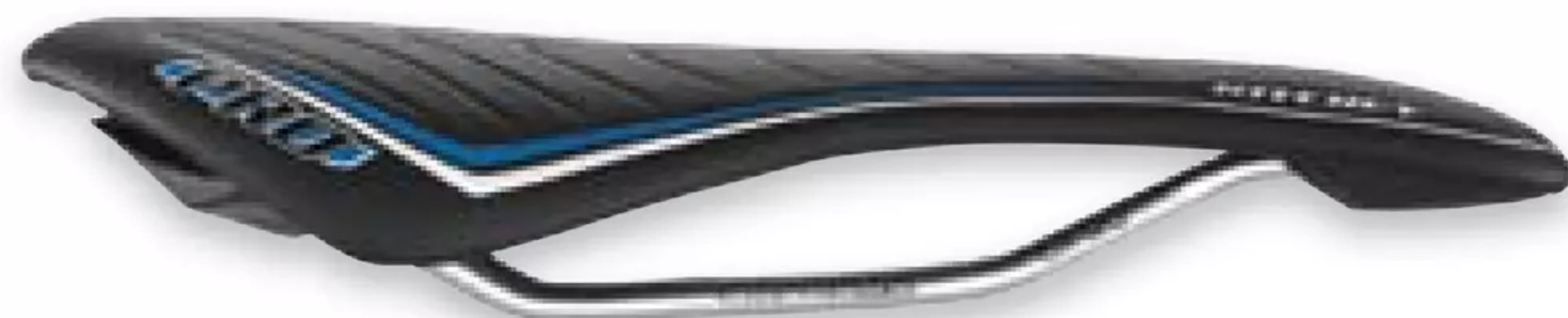
FRONT & REAR

XC LTD



REAR OCR

FRONT



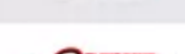
NEW WCS STREAM SADDLE

- Vector wing design dissipates vibration
- Low-profile design and narrow shell
- 35% carbon injected shell for stiffness and light weight
- Superlight foam
- Genuine leather and CrN/Ti alloy rails rails
- Now available in black or white
- 205g



NEW PRO & COMP STREAM SADDLES

- Vector wing design dissipates vibration
- Low-profile design and narrow shell
- 35% carbon injected shell for stiffness and light weight
- Pro: tubular cromo rails
- Comp: steel rails

Stream Saddles	rails	cover	weight
	CrN/Ti	Leather	205g
	Cromo	Synthetic Leather	220g
	Steel	Vinyl	305g

SADDLES



NEW WCS MARATHON SADDLE

Using the same low profile design and narrow shell as the Stroom, the Marathon offers more padding for longer road rides and MTB use

35% carbon injected shell for stiffness and light weight

Hi density superlight foam

CrN/Ti alloy rails, genuine perforated leather with Arymid abrasion resistant sides

Now available in black or white

223g



NEW PRO & COMP MARATHON SADDLES (NOT SHOWN)

Wing design to dissipate vibration

35% carbon injected shell for stiffness and light weight

Pro: Hi density foam, microfiber surface, tubular cromo rails, and abrasion resistant sides

Comp: steel rails, vinyl surface

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





Z-MAX EVOLUTION™

Z-MAX EVOLUTION™

Z-MAX EVOLUTION™

Z-MAX CLASSIC™

Z-MAX CLASSIC™

Z-MAX CLASSIC™

NEW Z-MAX PREMONITION™

NEW Z-MAX PREMONITION™

NEW Z-MAX PREMONITION™

NEW Z-MAX INTUITION™

NEW Z-MAX INTUITION™

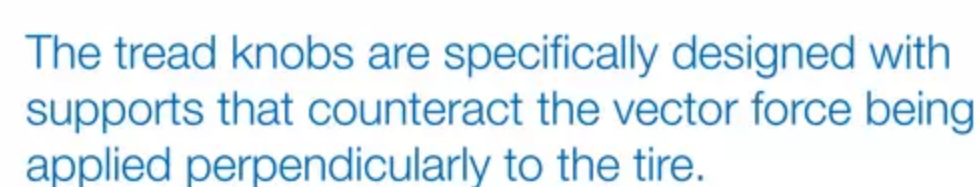
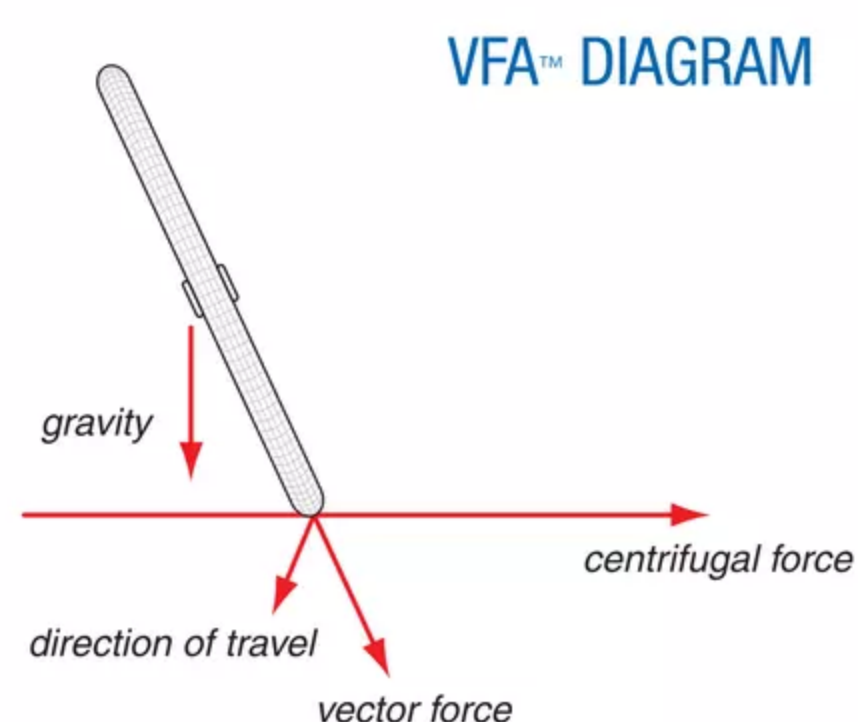
NEW Z-MAX INTUITION™

TIRE ROTATION AND THE VFA™ STORY

Vector Force Analysis (VFA™) analyzes the directional forces applied to 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 elements produces specific vector forces that affect each individual tread knob. VFA™ is a method of analyzing these forces to understand which are most prevalent in specific conditions, enabling us to design tires with an ideal combination of knob shapes, thicknesses and spacing to optimize performance characteristics for every type of riding.

TIRE ROTATION AND THE VFA™ STORY

Vector Force Analysis (VFA™) analyzes the directional forces applied to 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 elements produces specific vector forces that affect each individual tread knob. VFA™ is a method of analyzing these forces to understand which are most prevalent in specific conditions, enabling us to design tires with an ideal combination of knob shapes, thicknesses and spacing to optimize performance characteristics for every type of riding.



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



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	26x2.2
	415g	505g
	470g	520g
	568g	640g

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
 WCS	490g
 PRO	495g
 Comp	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.x.2
	624g

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



ROAD TIRES



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

Road Tubular	700x21	700x23
	250g	–
	300g	–
Race Slick Open	–	700x23
	–	230g
Race Slick	–	700x23
	–	230g
	–	240g
	–	270g

SUPER LIGHT ROAD & MOUNTAIN TUBES

- Lighter than standard butyl tubes (.72mm wall thickness)
- Presta valve
- Available in all popular sizes
- 48mm valve option

LIGHTWEIGHT BUTYL TUBE

- Standard butyl tubes (.9mm wall thickness)
- Available in all popular sizes
- 48mm valve option





32



35 / 40

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
	320g	335g	N/A
	380g	440g	478g



EXCAVADER™ CROSS

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

	ExcaVader 700	700x35
NEW		345g
		365g
		445g



SPEEDMAX DELTA™ 700

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

SpeedMax Delta	700x35
	430g

CYCLOCROSS AND SPECIALTY TIRES

TOM SLICK 700C

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

TOM SLICK FORTRESS™

- 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



TOM SLICK 26"

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



Tom Slick	700x23	
	225g	
Tom Slick Fortress	700x23	
	293g	
Tom Slick 26"	26x1.0	26x1.4
	250g	350g
	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

Moby Bite	26x2.1
	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



ROAD BARREL ADJUSTERS

Allows for derailleur adjustments from the handlebars

Works with Shimano road shifters



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



NEW CPR-9

25 grams!

2,3,4,5,6mm allens

Flat head screwdriver

T25 torx for disc brake rotors

Spoke wrench

Bottle opener

Key ring loop



LIQUID TORQUE

Creates extra friction between two surfaces, allowing tightening torque to be reduced by up to 30%

Particularly useful when 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



SUPER LOGIC® MOUNTAIN 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



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



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

STEMS

WCS Carbon ⁴ AXIS	material	construction	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	3K Carbon
WCS ⁴ AXIS	material	construction	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 / Wet Black
	2014	3D Forged	38	4	1 1/8"	25.4/25.8mm	84°	See Chart	125g	BB Black
 44	2014	3D Forged	44	4	1 1/8"	31.8mm	84°	See Chart	132g	Wet Black
Pro and Comp Stems	material	construction	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°/30°	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°/30°	See Chart	170g	BB Black
Ritchey Adjustable Stem	material	construction	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

AVAILABLE STEM DIMENSIONS

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	
WCS ⁴ AXIS 44	6				X	X	X	X	X	
PRO O/S	84/6				X	X	X	X	X	
PRO O/S	30	X	X	X	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	construction	cradle	offset	sizes	weight	finish
	Carbon	Monocoque	43x38	25mm	300mm (27.2, 31.6mm) 350mm (27.2, 31.6 , 34.9 mm) 400mm (31.6, 34.9mm)	176g (27.2/300)	3K Carbon
 45mm	Carbon	Monocoque	43x38	45mm	300mm (31.6mm) 350mm (31.6mm)	185g (350mm)	3K Carbon
 1Bolt / SideBinder	Carbon	Monocoque	43x38	25mm	300mm (27.2, 30.9, 31.6mm) 350mm (27.2, 30.9 , 31.6 mm) 400mm (30.9, 31.6mm)	175g (27.2/350)	3K Carbon
	Carbon/6061	Press bonded	43x38	25mm	300mm (27.2, 31.6mm) 350mm (27.0, 27.2, 31.6 mm) 400mm (31.6mm)	180g (27.2/300)	Carbon/BB Black
Alloy Posts	material	construction	cradle	offset	sizes	weight	finish
	7075	3D Forged	43x38	25mm	280 (27.0mm) 300 (27.2, 31.6mm) 350 (27.0 , 27.2, 30.9 , 31.6mm) 400 (30.9, 31.4, 31.6mm)	235g (27.2/350)	BB Black or Wet Black
	2014	3D Forged	43x38	25mm	280 (27.0, 27.2mm) 300 (27.2, 31.6mm) 350 (26.8 , 27.2 , 31.6mm) 400 (26.8, 27.2, 30.9, 31.4, 31.6mm)	275g (27.2/400)	BB Black
	6061	3D Forged	43x38	25mm	250 (27.0, 27.2mm) 300 (26.8, 27.2, 31.6mm) 400 (26.8 , 27.0, 27.2, 30.9, 31.4, 31.6mm)	305g (27.2/400)	BB Black

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

Echelon Road	body	axle	inner bearing	outer bearing	weight	finish
	Alloy	Cromo	Bushing	Needle/Ball	230g (per pair)	BB Black
Peloton Road	body	axle	inner bearing	outer bearing	weight	finish
	Alloy	Cromo	Bushing	Needle/Ball	240g (per pair)	BB Black
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)	Nickle
	Cromo	Cromo	Ball	Ball	340g (per pair)	Black



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

HEADSETS

Carbon Drop In	stack height		component material		headtube ID/depth		bearings		weight		compatability
	16.8 mm		Carbon/Alloy		41.8mm/6.9mm		Titanium-coated steel cartridge		69g		Cane Creek Std/Campy
Carbon Press Fit	stack height		component material		headtube ID/depth		bearings		weight		
	18 mm		Carbon		44mm/9mm		Titanium-coated steel cartridge		86g		
Press Fit Headset	stack height		cup material		headtube ID/depth		bearings		weight		
	12.9/18/25 mm		Alloy		44mm/9mm		Titanium-coated steel cartridge		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		compatability
	9.9/16.8/25 mm		Alloy		41.0/41.8mm/6.9mm		Titanium-coated steel cartridge		95g (10 mm)		Cane Creek Std/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	Titanium-coated steel cartridge	Titanium-coated steel cartridge	110g		
	1 1/8"	28.1 mm	7075	7075	7075	7075	Titanium-coated steel cartridge	Titanium-coated steel cartridge	125g		
	1 1/8"	32 mm	6061	6061	6061	Steel	Sealed Cartridge	Sealed Cartridge	140g		
	1t 1/8"	30.2 mm	Steel	Steel	Steel	Steel	Cartridge	Cartridge	195g		

ROAD WHEELSETS

58mm Carbon Wheels	type	rims	profile	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	Tubular front	Carbon	58mm	WCS Star Flange Road	DT New Aero	Brass 2.0	16xRadial	578g	Carbon	-
	Tubular rear	Carbon	58mm	WCS Zero System Road	DT New Aero	Brass 2.0	24x2X	758g	Carbon	Alloy
	Campy Tubular rear	Carbon	58mm	WCS Zero System Road	DT New Aero	Brass 2.0	24x2X	799g	Carbon	Alloy
	Clincher front	Carbon/Alloy	58mm	WCS Star Flange Road	DT New Aero	Brass 2.0	16xRadial	799g	Carbon	-
	Clincher rear	Carbon/Alloy	58mm	WCS Zero System Road	DT New Aero	Brass 2.0	24x2X	949g	Carbon	Alloy
	Campy Clincher rear	Carbon/Alloy	58mm	WCS Zero System Road	DT New Aero	Brass 2.0	24x2X	990g	Carbon	Alloy
38mm Carbon Wheels	type	rims	profile	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	Tubular front	Carbon	38mm	WCS Star Flange Road	DT New Aero	Brass 2.0	20x1X	N/A	3K Carbon	-
	Tubular rear	Carbon	38mm	WCS Zero System Road	DT New Aero	Brass 2.0	24x2X	N/A	3K Carbon	Alloy
	Clincher front	Carbon/Alloy	38mm	WCS Star Flange Road	DT New Aero	Brass 2.0	20x1X	728g	3K Carbon	-
	Clincher rear	Carbon/Alloy	38mm	WCS Zero System Road	DT New Aero	Brass 2.0	24x2X	938g	3K Carbon	Alloy
Protocol LTD Wheels	type	rims	profile	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	front	WCS Protocol	25mm	WCS Star Flange Road	DT Aerolite Black	Alloy 2.0	20x1X	656g	Black	-
	rear (Shimano®9/10spd)	WCS Protocol OCR	26mm	WCS 240 Road	DT Aerolite Black	Alloy 2.0	24x2X	824g	Black	Alloy
	Campy® rear	WCS Protocol OCR	26mm	WCS 240 Road	DT Aerolite Black	Alloy 2.0	24x2X	840g	Black	Alloy
Protocol Wheels	type	rims	profile	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	front	WCS Protocol	25mm	WCS Star Flange Road	DT New Aero	Alloy 2.0	20x1X	650g	Black or Silver	-
	rear (Shimano®10spd)	WCS Protocol OCR	26mm	WCS Zero System Road	DT New Aero	Alloy 2.0	24x2X	898g	Black or Silver	Alloy
	Campy rear	WCS Protocol OCR	26mm	WCS Zero System Road	DT New Aero	Alloy 2.0	24x2X	898g	Black or Silver	Alloy
Road DS Wheels	type	rims	profile	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	front	Pro DS-27	27mm	Pro Star Flange	DT New Aero	Brass 2.0	20x1X	778g	Black	—
	rear	Pro OCR DS-28	28mm	Pro Zero System Road	DT New Aero	Brass 2.0	24x2X	1060g	Black	Cromo
Silhouette Wheels	type	trims	profile	hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	front	Comp Silhouette	22mm	Comp Road	DT Champion	Brass 2.0	32x3X	811g	Black	-
	rear	Comp Silhouette OCR	22mm	Comp Zero System Road	DT Champion	Brass 2.0	32x3X	1093g	Black	Cromo

MOUNTAIN WHEELSETS

WCS LTD Wheels	type	rims		hubs	spokes	nipples	build	weight w/o QR	finish	freehub
	front	WCS XC LTD		WCS Mtn	DT Competition	Alloy 2.0	24xRadial	726g	Black	-
XC LTD	rear	WCS XC LTD OCR		WCS 240 Mtn	DT Competition	Alloy 2.0	28x2X	862g	Black	Alloy
	front disc	WCS DISC LTD OCR		WCS Mtn Disc	DT Competition	Alloy 2.0	28x3X	749g	Black	-
DISC LTD	rear disc	WCS DISC LTD OCR		WCS 240 Mtn Disc	DT Competition	Alloy 2.0	28x3X	817g	Black	Alloy



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