



RITCHEY

2012 PRODUCT CATALOG

RITCHEY



COMPONENT LEVELS



RITCHEY SUPERLOGIC™ – Simply put, this is as good as cycling components get. SuperLogic employs some of the most advanced carbon and alloy materials currently available in the bike industry. SuperLogic is state-of-the-art in terms of materials and construction techniques available, with a stiffness-to-weight ratio (and pricetag) to match.



RITCHEY WCS™ (WORLD CHAMPIONSHIP SERIES) – The WCS line is the gold standard for lightweight, bombproof race parts and cutting edge innovation. The rainbow stripe WCS logo represents the numerous world champions that have won on Ritchey.



RITCHEY PRO™ – Race-level parts without the race-level prices. Ritchey PRO benefits from the trickle-down effect, incorporating many of the innovation found on WCS.



RITCHEY COMP™ – COMP level components are designed to bring competition-worthy components down to a price that everyone can handle. You won't find carbon here, but you will find the kind of performance and reliability you expect from Ritchey.

COVER: Philippe Gilbert (Omega Pharma-Lotto) on his way to winning Liege-Bastogne-Liege and sweeping the Ardennes Classics. Photo: Fotoreporter Sirotti

OPPOSITE: Nino Schurter (Scott-Swisspower) during the opening round of the 2011 UCI Mountainbike World Cup in Pietermaritzburg, South Africa. Photo by Gary Perkin

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WCS C260° STEMS

NEW

At 103 grams this is lightest, most advanced alloy stem in the Ritchey line, and possibly the world.

This revolutionary patented design starts with a bar clamp that wraps a full 260 degrees around the handlebar to distribute clamping stress more evenly through the handlebar, faceplate, hardware and stem body. The steer tube clamp uses three bolts and a curved slot to reduce clamp stress on the steer tube.

The body is 3D forged from an advanced 7050 aluminum and internally machined for further weight reduction. Premium quality CrMo steel bolts are used throughout, but in a smaller M4 size that shaves a few more grams with no sacrifice in strength or rigidity.

The resulting CEN-approved stem is 20 grams lighter and even stiffer than our already stiff and lightweight 4Axis.

- » 3D forged and internally machined 7050 alloy body
- » 4 x M4 faceplate bolts and patented 260 degree bar clamp design reduces weight, increases stiffness and distributes stress more evenly
- » 3 x M4 steer tube bolts and curved clamp slot reduces weight and steer tube stress
- » 5Nm torque max on all hardware, same as 4Axis stems using M5 bolts
- » 30% stiffer than Ritchey's legendary WCS 4Axis and 20 grams lighter
- » Fits most road and mountain bars



WET BLACK



WET WHITE



WET RED



BB BLACK

FACT: Tom Ritchey has been building stems for almost 40 years, including some threadless-type designs dating back to the 70's.

WCS CARBON MATRIX C260° STEM

NEW

Gram for gram, the stiffest stem in the Ritchey line

- » Revolutionary C260 alloy forging with Ritchey Matrix™ structural carbon exoskeleton to enhance stiffness
- » 14% stiffer than the WCS alloy C260



C260 DETAILS



C260 FACEPLATE



C260 CURVED CLAMP SLOT



C260 TOP VIEW

MATRIX
CARBON ALLOY



C260 STEM	MATERIAL / CONSTRUCTION	FACEPLATE WIDTH	BOLTS	STEERER	STEERER HEIGHT	BAR	ANGLE	LENGTH	WEIGHT	FINISH
RITCHEY CARBON 	3D Forged 7050/ Carbon Encased	36	CrMo	28.6	42	31.8	84/6°	70, 80, 90, 100, 110, 120, 130mm	113g	UD Carbon
	3D Forged 7050	36	CrMo	28.6	42	31.8	84/6°	70, 80, 90, 100, 110, 120, 130mm	103g	BB Black, Wet Black, Wet White, Wet Red

[Weights shown are for 100mm extension.]

CARBON MATRIX 4-AXIS™ STEMS

4-AXIS: Tom's original 4-Axis stem changed stem design forever. From the stress-managing forged faceplate and bolt spacing and angled steer tube slot to the now-ubiquitous 3D net forging process, the 4-Axis is still the standard in lightweight, stiff and strong stems.

- » 4-Axis alloy forged core with Ritchey Matrix™ structural carbon exoskeleton to enhance stiffness by 12% over the standard 4-Axis
- » Taper head titanium bolts for WCS; Stainless steel taper head bolts for Pro
- » Available in UD finish (WCS) AND 3K weave (PRO)



WCS UD



PRO 44 3K



CARBON 4-AXIS STEM	MATERIAL / CONSTRUCTION	FACEPLATE WIDTH	BOLTS	STEERER	STEERER HEIGHT	BAR	ANGLE	LENGTH	WEIGHT	FINISH
RITCHHEY CARBON WCS	3D Forged 2014/ Carbon Encased	40	Ti	28.6	42	31.8	84/6°	90, 100, 110, 120, 130mm	120g	UD Carbon
RITCHHEY CARBON PRO 4-Axis 44	3D Forged 6061/ Carbon Encased	44	SS	28.6	42	31.8	84/6°	90, 100, 110, 120, 130mm	145g	3K Carbon w/ Wet Black

WCS 4-AXIS™ STEMS

- » 3-D Net forged 2014 alloy stem body
- » Taper head stainless steel M5 bolts
- » Available in Wet Black, Wet Red and Wet White finishes as well as standard BB Black



FACEPLATE FOR
WCS 4-AXIS STEMS IN
WET WHITE AND WET RED



FACEPLATE FOR
WCS 4-AXIS STEMS IN
WET BLACK AND BB BLACK



WET WHITE



WET RED



BB BLACK

CLASSIC 4AXIS STEM

- » 3D Forged 4-Axis stem design
- » 40mm faceplate width
- » 31.8mm handlebar clamp
- » Available in 90-130mm extensions (84/6°)
- » Stainless steel bolts
- » Classic high polish silver finish
- » 107g (90mm)



4-AXIS STEM	MATERIAL / CONSTRUCTION	FACEPLATE WIDTH	BOLTS	STEERER	STEERER HEIGHT	BAR	ANGLE	LENGTH	WEIGHT	FINISH
WCS	3D Forged 2014	40	SS	28.6	42	31.8	84/6°	60, 70, 80, 90, 100, 110, 120, 130mm	120g (100mm)	BB Black, Wet White, Wet Red
WCS	3D Forged 2014	40	SS	28.6	42	31.8	73/17°	90, 100, 110, 120, 130mm	120g (100mm)	BB Black,
CLASSIC	3D Forged 2014	40	SS	28.6	40	31.8	84/6°	90, 100, 110, 120, 130mm	107g (90mm)	HP Silver

[Weights shown are for 110mm extension, BB black finish.]

WCS 4-AXIS 44 STEMS

Developed specifically for Ritchey-sponsored pro sprinters.

- » Squared body and wider 44mm faceplate and bolt spacing---nearly as stiff as our 4-Axis Matrix™ model
- » Available in Wet Black



WET BLACK



FACT: Ritchey stem bolts use domed washers to eliminate stress risers. It's a small detail that makes our stems even more durable.



4AXIS 44 STEM	MATERIAL / CONSTRUCTION	FACEPLATE WIDTH	BOLTS	STEERER	STEERER HEIGHT	BAR	ANGLE	LENGTH	WEIGHT	FINISH
 1-1/8"	3D Forged 2014	44	SS	28.6	42	31.8	84/6°	70, 80, 90, 100, 110, 120, 130mm	130g	Wet Black

PRO STEMS

Pro caliber features at a real-world racer price. Pro stems use the same design as WCS, but are forged from 6061 aluminum instead of the more exotic 7050 and 2014 alloys

- » 4-Axis faceplate and bolt spacing distributes clamping force and reduce stress on lightweight bars
- » Angled steer tube clamp slot reduces stress on carbon steer tubes
- » 3D net forged 6061 aluminum



4-AXIS 44 WET BLACK



PRO STEM	MATERIAL / CONSTRUCTION	FACEPLATE WIDTH	BOLTS	STEERER	STEERER HEIGHT	BAR	ANGLE	LENGTH	WEIGHT	FINISH
PRO 4-Axis 44	3D Forged 6061	44	SS	28.6	42	31.8	84/6°	90, 100, 110, 120, 130mm	130g	BB Black

[Weights shown are for 110mm extension.]

COMP STEMS

- » 3D-Net Forged 6061 alloy construction
- » Angled steerer clamp helps prevent damage to lightweight aluminum and carbon steerer tubes
- » Stainless steel bar and steerer clamp bolts
- » 30 Degree rise and shorter length provide more fitting options



4-AXIS BB BLACK
(MATTE WHITE NOT SHOWN)



30D BB BLACK

ADJUSTABLE STEMS

- » Over 45° of height adjustment in either direction
- » Precision 3D-Net shaped forged shaft interconnects with a precision broached clamp to create the strongest, lightest, most secure adjustable stem available
- » Stainless steel bar and steerer clamp bolts



STEM	MATERIAL / CONSTRUCTION	FACEPLATE WIDTH	BOLTS	STEERER	STEERER HEIGHT	BAR	ANGLE	LENGTH	WEIGHT	FINISH
<i>Comp</i> 4-Axis	3D Forged 6061	42	SS	28.6	42	31.8	84/6°	80, 90, 100, 110, 120, 130mm	160g	BB Black, Matte White
<i>Comp</i> 30°	3D Forged 6061	40	SS	28.6	45	31.8	30°	60, 70, 80, 90mm	170g	BB Black
Adjustable	3D Forged 6061	42	SS	28.6	40	25.4, 25.8, 31.8	90° range	80, 100, 120mm	219g (80mm)	BB Black

AVAILABLE STEM SIZES

WCS STEMS	DEGREE	60	70	80	90	100	110	120	130
WCS Matrix C-260°	84/6				X	X	X	X	X
WCS C-260°	84/6		X	X	X	X	X	X	X
WCS Carbon 4-Axis	84/6				X	X	X	X	X
WCS 4-Axis	73/17				X	X	X	X	X
WCS 4-Axis	84/6	X	X	X	X	X	X	X	X
WCS 4-Axis 44	84/6		X	X	X	X	X	X	X
PRO STEMS	DEGREE	60	70	80	90	100	110	120	130
Pro 4-Axis 44 Matrix	84/6				X	X	X	X	X
Pro 4-Axis 44	84/6				X	X	X	X	X
COMP STEMS	DEGREE	60	70	80	90	100	110	120	130
COMP 4-Axis	84/6				X	X	X	X	X
COMP 30D	30	X	X	X	X				
CLASSIC STEMS	DEGREE	60	70	80	90	100	110	120	130
CLASSIC 4-Axis	84/6				X	X	X	X	X
RITCHEY ADJUSTABLE STEMS	DEGREE	60	70	80	90	100	110	120	130
Adjustable	+45/-45			X		X		X	

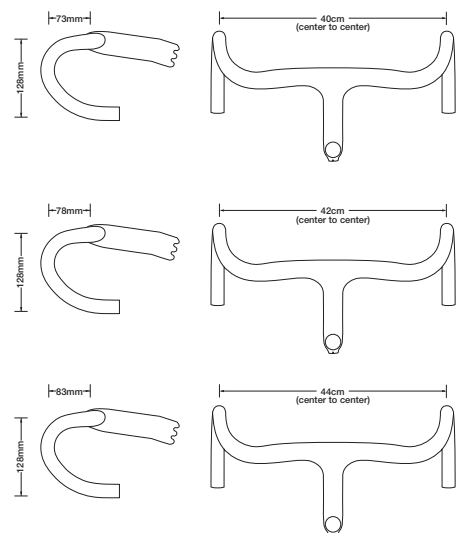


WCS CARBON MONOCURVE INTEGRATED BAR/STEM

NEW

The ultimate carbon cockpit—the MonoCurve system blends the fit of our most popular bar bend with sublime ride quality of stiff and lightweight integrated bar/stem combo.

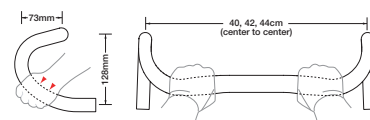
- » Monocoque EvoCurve bar molded to a carbon stem and C260-style forged alloy steer tube clamp
- » Extended ergonomic upper section with 4° sweep
- » Shallow 128mm drop with smooth “curve” transition
- » Logic II style progressive reach
- » 80° stem angle for an aggressive position
- » C260-style curved steer tube slot radically reduces steer tube stress
- » Weight: 353g (42cm x120mm)



CARBON MONO-CURVE BARS	MATERIAL / CONSTRUCTION	WIDTH (CENTER TO CENTER)	DROP / REACH	SWEEP / FLARE	STEM LENGTH	STEERER	FINISH
RITCHEY CARBON WCS	Carbon Monocoque with forged alloy steerer clamp	40cm	128/73	4/2°	90, 100, 110mm	28.6	UD Carbon
RITCHEY CARBON WCS	Carbon Monocoque with forged alloy steerer clamp	42cm	128/78	4/2°	110, 120, 130mm	28.6	UD Carbon
RITCHEY CARBON WCS	Carbon Monocoque with forged alloy steerer clamp	44cm	128/83	4/2°	120, 130mm	28.6	UD Carbon

LOGIC CURVE BARS

- » Short reach, shallow drop with a smooth, double-radius drop section
- » Center section is aero bar compatible
- » No-slip grit at stem and brake lever mounting surfaces
- » Cable grooves (WCS Carbon only)



NEW

FACT: Ritchey carbon bars are one-piece monocoque structures, stronger and more durable than most three-piece bonded bars.

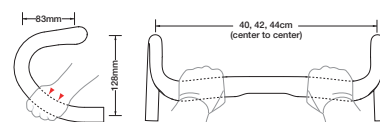
LOGIC CURVE BARS	MATERIAL / CONSTRUCTION	WIDTH (CENTER TO CENTER)	DROP / REACH	SWEEP / FLARE	WEIGHT	FINISH
RITCHEY CARBON WCS	Carbon Monocoque	40, 42, 44cm	128/73mm	0/1°	210g	UD Carbon
WCS	Triple butted 7050	40, 42, 44cm	128/73mm	0/1°	235g	BB Black
Comp	Double butted 6061	40, 42, 44cm	128/73mm	0/1°	300g	Matte White
Ritchey Classic	Double butted 6061	40, 42, 44cm	128/73mm	0/1°	300g	HP Silver

[Weights shown for 42cm bars. Comp weight is for BB black.]

HANDLEBARS

EVO-CURVE BARS

- » Short reach, shallow drop with 4 degrees sweep at the ovalized top section and smooth, double-radius drops
- » Center section is aero bar compatible
- » No-slip grit at stem and brake lever mounting surfaces
- » Cable grooves (WCS Carbon only)



NEW

WCS (UD CARBON)



WCS (WETBLACK)



WCS (WET WHITE)



NEW

WCS (WET RED)



NEW

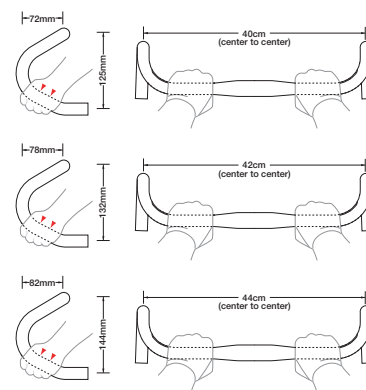
PRO (WET BLACK)

FACT: The process used to create our Wet finishes is tougher than normal paint. It's derived from baseball bat coatings and specially formulated to be durable and chip resistant.

EVO-CURVE BARS	MATERIAL / CONSTRUCTION	WIDTH (CENTER TO CENTER)	DROP / REACH	SWEEP / FLARE	WEIGHT	FINISH
RITCHHEY CARBON 	Carbon Monocoque	40, 42, 44cm	128/83mm	4/2°	220g	UD Carbon
RITCHHEY CARBON PRO	Carbon Monocoque	40, 42, 44cm	128/83mm	4/2°	280g	3K Carbon
	Triple butted 7050	40, 42, 44cm	128/83mm	4/2°	250g	Wet Black, Wet White, Wet Red
	Double butted 7075	40, 42, 44cm	128/83mm	4/2°	270g	Wet Black

LOGIC® II BARS

- » Reach and drop progressively increases with bar width—ensuring optimal fit in every size
- » Anatomical bend for wide spacing at the tops and ample forearm clearance in the drops



SUPERLOGIC (UD CARBON)



WCS (WET BLACK)



WCS (WET WHITE)



PRO (WET BLACK)



COMP (BB BLACK)

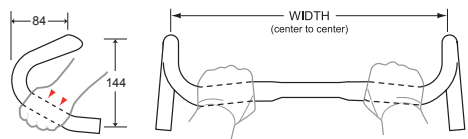
LOGIC II BARS	MATERIAL / CONSTRUCTION	WIDTH (CENTER TO CENTER)	DROP / REACH	SWEEP / FLARE	WEIGHT	FINISH
RITCHEY CARBON SUPERLOGIC	Carbon Monocoque	40, 42, 44cm	125/72mm (40cm) 132/78mm (42cm) 144/82mm (44cm)	0/2°	190g	UD Carbon
WCS	Triple butted 7050	38, 40, 42, 44cm	125/72mm (38, 40cm) 132/78mm (42cm) 144/82mm (44cm)	0/1°	233g	BB Black, Wet White Wet Black, Wet Red
PRO	Double butted 7075	40, 42, 44cm	125/72mm (38, 40cm) 132/78mm (42cm) 144/82mm (44cm)	0/1°	260g	Wet Black
COMP	Double butted 6061	40, 42, 44cm	125/72mm (38, 40cm) 132/78mm (42cm) 144/82mm (44cm)	0/1°	310g	BB Black

[Alloy bar weights shown for 42cm bars with BB black finish.]

HANDLEBARS

STREEM™ BAR

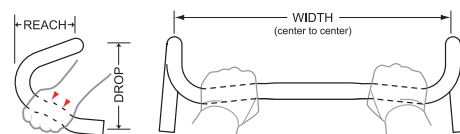
- » Wing shaped aero top section for ergo grip
- » Square bend for comfort
- » R50 bend provides more hand room
- » Formed cable grooves for accurate routing



STREEM BARS	MATERIAL / CONSTRUCTION	WIDTH (CENTER TO CENTER)	DROP / REACH	FLARE / SWEEP	WEIGHT	FINISH
	Double butted 6061	40, 42, 44cm	144/84mm	6/2°	280g	BB Black

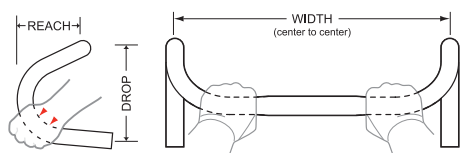
BIOMAX™ BARS

- » Our most anatomically advanced bar
- » 6 degree swept-back tops and 5 degree flared, short-reach ergonomic drops
- » Large “ergo bump” for greater comfort while riding in the drops
- » R50 bend provides more hand room
- » Grooved to hide cables



CLASSIC™ BAR

- » Classic bend preferred by our pro riders
- » R75 bend allows more forearm clearance while in the drops
- » Classic bend drop gives best sprinting position



FACT: A few top Ritchey pro racers still prefer the Classic bend.

BARS	MATERIAL / CONSTRUCTION	WIDTH (CENTER TO CENTER)	DROP / REACH	FLARE / SWEEP	WEIGHT	FINISH
<i>BioMax II</i>	Triple butted 7050	38, 40, 42, 44cm	130/75mm	6/5°	245g	Wet Black
<i>Classic</i>	Triple butted 7050	40, 42, 44cm	135/80mm	—	220g	BB Black

[Weights shown for 42cm bars]

10-DEGREE FLAT MOUNTAIN BAR

- » Unique shape of 10° bend flat bar preserves the hand position of a 5° bend bar without increasing stem length
- » Textured stem clamp area reduces risk of bar slippage
- » Reinforced internally to accept bar ends and shifter/lever clamp (SuperLogic not bar end compatible)



TOP VIEW



SUPERLOGIC CARBON 10° FLAT



WCS CARBON 10° FLAT



WCS 10° FLAT



PRO 10° FLAT



COMP 10° FLAT



CLASSIC 10° FLAT

10 DEGREE FLAT BARS	MATERIAL	WIDTH	BEND	WEIGHT	FINISH
RITCHHEY CARBON SUPERLOGIC	Carbon	620mm	10°	130g	UD Carbon
RITCHHEY CARBON WCS	Carbon	660mm	10°	180g (660mm)	UD Carbon
WCS	Triple butted 7075	660mm	10°	235g (700mm)	BB Black / Wet Black
PRO	Double butted 2014	660mm	10°	279g (700mm)	Wet Black
COMP	Double butted 6061	660mm	10°	320g (700mm)	BB Black
Classic	Double butted 6061	660mm	10°	340g	HP Silver

CARBON RIZER™ BARS

- » Available in ideal bends and weights for cross-country, marathon, and enduro
- » Long grip area maximizes accessory mounting space



SUPERLOGIC CARBON LOW RIZER (UD)



WCS CARBON LOW RIZER (UD)



WCS CARBON RIZER (UD)



PRO CARBON LOW RIZER (3K)

CARBON RIZER BARS	MATERIAL	WIDTH	RISE	WEIGHT	FINISH
RITCHEY CARBON SUPERLOGIC Low Rizer	Carbon	660mm	15mm	145g	UD Carbon
RITCHEY CARBON WCS Low Rizer	Carbon	660mm	15mm	180g	UD Carbon
RITCHEY CARBON WCS Low Rizer	Carbon	680mm	20mm	180g	UD Carbon
RITCHEY CARBON WCS	Carbon	660mm	30mm	180g	UD Carbon
RITCHEY CARBON PRO	Carbon	670mm	20mm	220g	3K Carbon

HANDLEBARS

ALLOY RIZER™ BARS

- » Available in ideal bends and weights for cross-country, marathon, and enduro
- » Long grip area maximizes accessory mounting space
- » WCS-level bars are seamless triple-buttet 7000 series aluminum



WCS RIZER (BB BLACK)



WCS LOW RIZER (WET BLACK)



WCS LOW RIZER (WET RED)



WCS LOW RIZER (WET WHITE)



PRO LOW RISER



COMP RISER

ALLOY RIZER BARS	MATERIAL	WIDTH	RISE	WEIGHT	FINISH
WCS	Triple buttet 7050	660mm	30mm	235g	BB Black
WCS Low Rizer	Triple buttet 7075	660mm	20mm	210g	Wet Black Wet White, Wet Red
PRO Low Rizer	Double buttet 2014	670mm	20mm	300g	Wet Black
Comp	Double buttet 6061	670mm	35mm	360g	BB Black
Comp Low Rizer	Double buttet 6061	670mm	20mm	309g	BB Black, Matte White

CARBON FLAT BARS

- » Textured stem clamp area reduces risk of bar slippage
- » Reinforced internally to accept bar ends and shifter/lever clamp (WCS and Pro only)
- » WCS bars available in 9 degree with extended width for 2012



SUPERLOGIC CARBON (UD)



WCS CARBON (UD)



PRO CARBON (3K)

CARBON FLAT BARS	MATERIAL	WIDTH	BEND	WEIGHT	FINISH
RITCHEY CARBON SUPERLOGIC	Carbon	580mm	5°	120g	UD Carbon
RITCHEY CARBON WCS	Carbon	580, 620mm	5°	140g (580mm)	UD Carbon
RITCHEY CARBON WCS	Carbon	640, 680mm	9°	165g (640mm)	UD Carbon
RITCHEY CARBON PRO	Carbon	600mm	5°	162g	3K Carbon

HANDLEBARS

ALLOY FLAT BARS

- » Seamless, triple butted 7050 aluminum construction (WCS only)
- » Bead-blasted and anodized finish improves fatigue strength



WCS (WET BLACK)



WCS (WET WHITE)



NEW

WCS (WET RED)



WCS (BB BLACK)



PRO



COMP



CLASSIC

ALLOY FLAT BARS	MATERIAL	WIDTH	BEND	WEIGHT	FINISH
	Seamless, Triple butted 7050	580, 600mm	5°	165g	BB Black / Wet Black Wet White, Wet Red
	Double butted 2014	620mm	5°	197g (600mm)	Wet Black
	Double butted 6061	600, 620mm	5°	230g (580mm)	BB Black / Matte White
	Double butted 6061	560mm	5	202g	HP Silver

BAR ENDS

- » Angled clamp slot reduces stress on lightweight alloy or carbon fiber
- » Features inward angle, perfect for use with riser bars



NEW

WCS CARBON MATRIX (UD)



WCS CARBON MATRIX (3K)



WCS (BB BLACK)



WCS (WET WHITE)



WCS (WET RED)



WCS ERGO (BB BLACK)



PRO

BAR ENDS	MATERIAL / CONSTRUCTION	LENGTH	WEIGHT	FINISH
Matrix	3D Forged 6061 + Carbon	85mm	85g	UD Carbon, 3K Carbon
WCS	3D Forged 6061	85mm	65g	BB Black, Wet White, Wet Black, Wet Red
Ergo	3D Forged 6061	110mm	74g	BB Black, Wet Black
PRO	3D Forged 6061	100mm	110g	Wet Black
Comp	2 Piece Bonded 6061	102, 125mm	160g	BB Black

TT / TRI BARS

CARBON INTERVAL BASE BAR

- » Monocoque carbon construction
- » Full internal cable routing
- » WCS Wedge Clip-On offers a wide range of adjustments for reach and armrest width (sold separately)



WEDGE CARBON-ALLOY ARMREST / CLAMP

- » Ritchey's newest ultra light weight bolt on Tri/TT bars tip the scales at under 200 grams (w/o extensions)
- » New Pro level version available for 2012
- » Curved UD finish carbon arm rests (WCS)
- » Flat carbon reinforced plastic arm rests (Pro)
- » Wide range of adjustments for reach, angle, and armrest width
- » Extensions sold separately
- » 31.8mm clamp diameter
- » Compatible with all Ritchey road bars



WCS

SLIVER CARBON-ALLOY ARMREST / CLAMP

- » Ritchey's newest Tri/TT Clip-on bar raised the level of the extension to the same height as the bar
- » Flat UD carbon (WCS only) arm rests offer a multitude of adjustment positions
- » Replaceable arm rest pads
- » Lightweight at 200g (including arm rest pads)
- » New Pro level version available for 2012
- » Compatible with all Ritchey road bars



TIME TRIAL / TRIATHLON BARS	MATERIAL	WIDTH	DROP	CLAMP DIA	WEIGHT	FINISH
RITCHEY CARBON  Interval Base Bar	Carbon	40cm	60mm	31.8mm	190g	UD Carbon
RITCHEY CARBON  Wedge Clip-On	6061/Carbon	Adjustable	—	31.8mm	205g	BB Black w/UD arm rests
RITCHEY CARBON  Sliver Clip-On	6061/Carbon	Adjustable	—	31.8mm	200g	BB Black w/UD arm rests
PRO Wedge Clip-On	6061/carbon reinforced plastic	Adjustable	—	31.8mm	202g	BB Black w/HP Black arm rests
PRO Sliver Clip-On	6061/carbon reinforced plastic	Adjustable	—	31.8mm	202g	BB Black w/HP Black arm rests

HAMMERHEAD™ BAR

- » Full carbon base bar construction
- » Fits all 31.8mm stems
- » Wide range of adjustments for reach and armrest width
- » Fully adjustable alloy S-bend, carbon straight or carbon S-bend extensions (extensions sold separately)



PRO BASE BAR NEW

- » Compatible with TT brake levers or STI levers
- » Internal cable routing
- » Compatible with Wedge and Sliver



EXTENSIONS

- » Four extension options: S-bend (carbon or alloy), straight (carbon only), and L-bend (alloy only)
- » Sold separately



TIME TRIAL / TRIATHLON BARS	MATERIAL	WIDTH	CLAMP DIA	WEIGHT	FINISH
Hammerhead TT	Carbon	38, 40cm	31.8mm	600g (40cm)	UD Carbon
Base Bar	Double butted 7075	42cm	31.8mm	265	BB Black
EXTENSIONS	MATERIAL	LENGTH	CLAMP DIA	WEIGHT	FINISH
Straight Extension	Carbon	376mm	22.2mm	150g	UD Carbon
S-Bend Extension	Carbon	340mm	22.2mm	150g	UD Carbon
S-Bend Extension	2014	400mm	22.2mm	160g	BB Black
L-Bend Extension	6061	350mm	22.2mm	165g	BB Black
Straight Extension	6061	400mm	22.2mm	165g	BB Black

SEATPOSTS

WCS LINK SEATPOSTS

NEW

Ritchey's new line of LINK seatposts brings innovative options to the new Selle Italia MonoLink™ system. Our LINK clamp system can be adapted to work with standard rail saddles too.

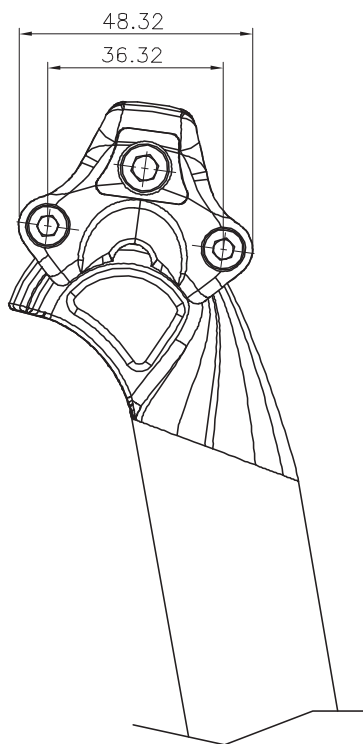
WCS LINK ALLOY

- » Selle Italia MonoLink compatible post at a Ritchey alloy price
- » 3D-Net forged 7075 alloy
- » 3-bolt design for separate angle and fore/aft adjustments
- » Long saddle clamp reduces stress on carbon monolink saddle rails
- » 235g (27.2x350mm)



WCS CARBON LINK FLEXLOGIC

- » 15% more ride compliance than our other carbon posts
- » Unique carbon layup developed specifically for Scott, Stevens, and Canyon Pro Tour team bikes
- » FlexLogic carbon layup is isotropic—allowing compliance on vertical plane but not laterally—for a smoother ride without unwanted flex
- » 3-bolt design for separate angle and fore/aft adjustments
- » Extended saddle clamps reduce stress on carbon monolink saddle rails



**FLEX
LOGIC**

**LINK
SYSTEM**

MONOLINK
compatible

POSTS	MATERIAL / CONSTRUCTION	DIAMETER	LENGTH	OFFSET	WEIGHT	FINISH
RITCHEY CARBON 	Monocoque Carbon	27.2, 30.9, 31.6mm	300, 350, 400mm	15mm	N/A	UD Carbon
	3D Forged 7050	27.2, 30.9, 31.6mm	300, 350, 400mm	15mm	230g	BB Black, Wet Black, Wet White

ONE-BOLT SEATPOSTS

One of the lightest, toughest seatpost designs in the world.

» Patented SideBinder™ clamp design uses a single 5mm bolt for quick, secure adjustment

» Precision forged alloy clamp assembly for strength

» Low-profile head for optimal saddle clearance and sleek lines

» Wide saddle clamp reduces stress on lightweight saddle rails

» Interchangeable clamps provide compatibility for all popular rail sizes



FACT: Ritchey sources an exotic, high-purity grade of 7000-series alloy for WCS stems and seatposts, guaranteeing the consistent durability required for superlight designs.

ONE-BOLT POST	MATERIAL / CONSTRUCTION	DIAMETER	LENGTH	OFFSET	WEIGHT	FINISH
RITCHEY CARBON SUPERLOGIC	Carbon Monocoque	27.2, 30.9, 31.6mm	300, 350, 400mm	25mm	148g (27.2/300)	UD Carbon
RITCHEY CARBON WCS	Carbon Monocoque	27.2, 30.9, 31.6mm	300, 350, 400mm	25mm	185g (27.2/300)	UD Carbon
RITCHEY CARBON WCS	Carbon Monocoque	27.2, 31.6mm	350, 400mm	0mm	157g (27.2/350)	UD Carbon
RITCHEY CARBON WCS	3D Forged TR741 Alloy	27.2, 30.9, 31.6mm	300, 350, 400mm	20mm	195g (27.2/350)	BB Black, Wet Black, Wet White, Wet Red
RITCHEY CARBON WCS	3D Forged TR741 Alloy	27.2, 30.9, 31.6mm	300, 350, 400mm	0mm	195g (27.2/350)	BB Black
RITCHEY CARBON WCS Adjustable	3D Forged TR741 Alloy	27.2, 31.6mm	350mm	-5 to 25mm	263g (27.2/350)	BB Black

[Saddle rail clamps available for 7x7, 7x9.6, 8x8.5 rails.] [27.2 posts not available in 400mm.]

CARBON TWO-BOLT POSTS

Proven 2-bolt design provides a class-leading balance between strength, weight and adjustability.

- » Low profile clamp won't bottom out on saddle
- » Bolts are oriented to the axis of the rails for greatest contact area with the saddle
- » Wide saddle clamp reduces stress on lightweight saddle rails
- » Works with widest range of saddle rail dimensions



WCS 25MM OFFSET
IN UD CARBON



PRO 25MM OFFSET
IN 3K CARBON/BB BLACK

CARBON TWO-BOLT POST	MATERIAL / CONSTRUCTION	CRADLE	DIAMETER	LENGTH	OFFSET	WEIGHT	FINISH
<i>RITCHHEY CARBON</i> WCS	Monocoque Carbon	43x38	34.9mm	400mm	25mm	195g	UD Carbon
<i>RITCHHEY CARBON</i> WCS	Monocoque Carbon	43x38	31.6mm	350mm	45mm	195g	3K Carbon
<i>RITCHHEY CARBON</i> PRO	Press bonded Carbon/6061	43x38	27.2, 31.6mm	300, 350, 400mm	25mm	229g	3K Carbon

ALLOY TWO-BOLT POSTS

- » Two-bolt design for easy to adjust, vise-like grip
- » Low profile clamp reduces stress on lightweight rails and won't bottom out
- » Bolts oriented to the axis of the rails for greatest contact area with the saddle



PRO
WET BLACK



COMP
MATTE WHITE



CLASSIC

ALLOY TWO-BOLT POSTS	MATERIAL / CONSTRUCTION	CRADLE	DIAMETER	LENGTH	OFFSET	WEIGHT	FINISH
	3D Forged 2014	43x38	27.2, 31.6, 30.9mm	300, 400mm	25mm	225g	Wet Black
	3D Forged 6061	43x38	26.8, 27.0, 27.2, 30.9, 31.6mm	300, 350, 400mm	25mm	250g	BB Black, Matte White
	3D Forged 6061	43x38	31.6mm	350, 400mm	Zero	250g	BB Black, Matte White
	3D Forged 2014	43x38	27.2, 30.9, 31.6mm	350mm	25mm	245g	HP Silver

[WCS and Classic 27.2 posts not available in 400mm.]

WCS ONE-BOLT STUBBY

- » Patented SideBinder™ one-bolt clamp design facilitates easy installation and adjustment
- » Increased range of adjustment over other clamp systems
- » Designed for frames with integrated seat tubes



WCS ONE-BOLT STUBBY POST	MATERIAL / CONSTRUCTION	INNER Ø	LENGTH	OFFSET	WEIGHT	FINISH
RITCHEY CARBON SUPERLOGIC	Carbon Monocoque	34.9	50mm	25mm	99g	UD Carbon
WCS	2D Forged 2014	34.9	50mm	25mm	116g	HP Black
WCS	2D Forged 2014	30.25	50mm	8mm	110g	HP Black
WCS	2D Forged 2014	30.25, 34.9	70mm	25mm	138g (34.9)	HP Black
WCS	2D Forged 2014	38.35	70mm	8mm	126g	HP Black

AVAILABLE POST OPTIONS

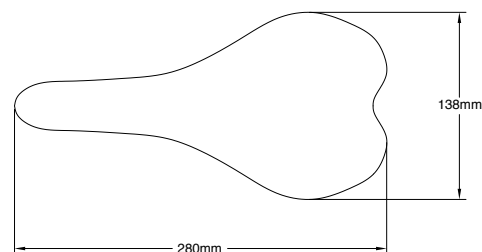
SUPERLOGIC POSTS	DIAMETER (MM)	OFFSET	LENGTHS				
			50MM	70MM	300MM	350MM	400MM
SuperLogic One-Bolt	27.2	25			X	X	
	30.9/31.6	25			X		X
SuperLogic Stubby	34.9	25	X				
WCS POSTS	DIAMETER (MM)	OFFSET	LENGTHS				
			50MM	70MM	300MM	350MM	400MM
WCS CF One-Bolt	27.2	25			X	X	
	30.9/31.6	25			X		X
	27.2	0				X	
	31.6	0					X
WCS CF Two-Bolt	34.9	25					X
	31.6	45				X	
WCS Alloy One-Bolt	27.2	20			X	X	
	30.9/31.6	20			X		X
WCS Stubby	30.25	8	X				
	30.25/34.9	25	X	X			
	38.35	8	X	X			
WCS Alloy Two-Bolt	27.2	25			X	X	
	30.9/31.6	25			X		X
Link CF	27.2/30.9/31.6	15			X	X (27.2)	X
Link	27.2/30.9/31.6	15			X	X (27.2)	X (30.9/31.6)
WCS Adjustable	27.2/31.6	-5 TO 25				X	
PRO POSTS	DIAMETER (MM)	OFFSET	LENGTHS				
			50MM	70MM	300MM	350MM	400MM
Pro CF	27.2	25			X	X	
	31.6	25			X		X
Pro	27.2/30.9/31.6	25			X		X
COMP POSTS	DIAMETER (MM)	OFFSET	LENGTHS				
			50MM	70MM	300MM	350MM	400MM
Comp	26.8/27.0/27.2/30.9/31.6	25			X	X	X
Comp	31.6	0				X	X
CLASSIC POSTS	DIAMETER (MM)	OFFSET	LENGTHS				
			50MM	70MM	300MM	350MM	400MM
Classic	27.2/30.9/31.6	25				X	



SADDLES

STREEM SADDLES

- » Patented Vector Wing design dissipates pressure more evenly
- » Low profile design and narrow carbon fiber injected shell for stiffness and lightweight for WCS and Pro
- » Micro fiber cover and superlight foam
- » Low profile design



WCS CARBON STREAM



PRO STREAM



COMP STREAM

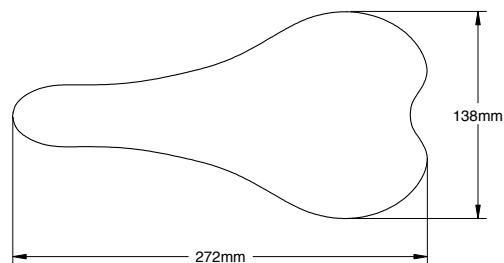


VECTOR WING TECHNOLOGY
DISTRIBUTES PRESSURE EVENLY
AND ELIMINATES HOT SPOTS

STREEM SADDLES	RAILS	SHELL	COVER	RAIL DIMENSIONS	COLOR	WEIGHT
RITCHEY CARBON WCS	Carbon	Nylon + Carbon	Micro Fiber	8 x 8.5	Black, White, Red	145g
WCS	CrN/Ti	Nylon + Carbon	Micro Fiber	7 x 7	Black, White	200g
PRO	Tubular CrMo	Nylon + Carbon	Micro Fiber	7 x 7	Black, White	210g
Comp	Steel	Nylon + Glass Fiber	Vinyl	7 x 7	Black, White	250g

CONTRAIL SADDLES NEW

- » Patented Vector Wing design dissipates pressure more evenly
- » Slightly shorter and more padded than the Stream
- » Tom Ritchey's newest saddle utilizes superlight foam shape and narrow carbon fiber injection shell combine to make a new, comfortable performance driven saddle
- » Lightweight and durable micro fiber cover available in black and white



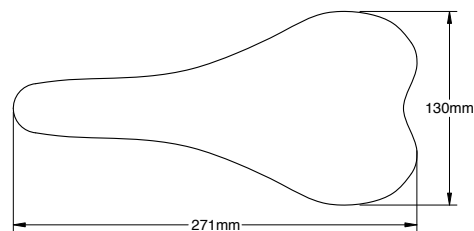
VECTOR WING TECHNOLOGY
DISTRIBUTES PRESSURE EVENLY
AND ELIMINATES HOT SPOTS

FACT: The United Healthcare Cycling Team races on Stream and Contrail saddles exclusively.

CONTRAIL SADDLES	RAILS	SHELL	COVER	RAIL DIMENSIONS	COLOR	WEIGHT
	CrN/Ti	Nylon + Carbon	Micro Fiber	7 x 7	Black, White	250g

MARATHON SADDLES

- » Using the same low profile design and narrow carbon fiber injected shell as the Stream for stiffness and minimal weight (WCS and Pro), the Marathon offers more padding for longer rides
- » Patented Vector Wing design dissipates pressure more evenly
- » WCS: high-density superlight foam, CrN/Ti alloy rails, genuine perforated leather with Kevlar® abrasion resistant sides
- » Pro: high-density foam, microfiber surface, tubular CrMo rails, and abrasion resistant sides

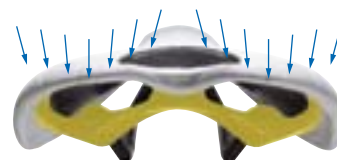


WCS MARATHON



PRO MARATHON

COMP MARATHON

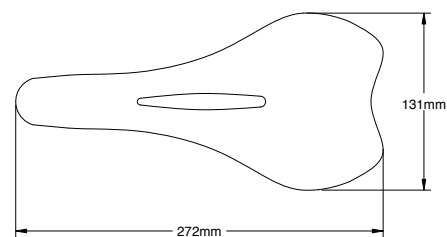


VECTOR WING TECHNOLOGY
DISTRIBUTES PRESSURE EVENLY
AND ELIMINATES HOT SPOTS

MARATHON SADDLES	RAILS	SHELL	COVER	RAIL DIMENSIONS	COLOR	WEIGHT
	CrN/Ti	Nylon + Carbon	Micro Fiber	7 x 7	Black, White	223g
	Tubular CrMo	Nylon + Carbon	Micro Fiber	7 x 7	Black, White	279g
	Steel	Nylon + Glass Fiber	Synthetic Leather	7 x 7	Black, White	325g

BIOMAX SADDLES

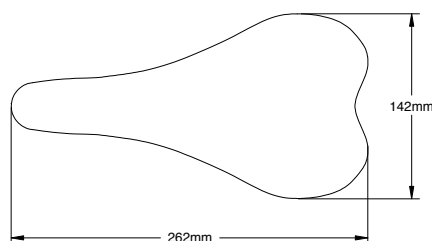
- » Anatomical channel reduces perennial pressure for improved circulation
- » 35% carbon injected shell for stiffness and light weight in WCS and Pro
- » Super light foam, micro fiber cover material, CrMo rails
- » Available in black or white



WCS BIOMAX

LADY SADDLES

- » New race-oriented womens specific saddle design
- » Lightweight and durable micro fiber cover on (WCS only)
- » 35% carbon injected shell for stiffness and light weight
- » High-density superlight foam
- » CrN/Ti alloy rails (WCS only)
- » WCS and Comp versions available in black or white
- » WCS: 223g



WCS LADY

BIOMAX SADDLES	RAILS	SHELL	COVER	RAIL DIMENSIONS	COLOR	WEIGHT
	CrN/Ti	Nylon + Carbon	Micro Fiber	7 x 7	Black, White	225g
	Tubular CrMo	Nylon + Carbon	Micro Fiber	7 x 7	Black, White	280g
	Steel	Nylon + Glass Fiber	Synthetic Leather	7 x 7	Black, White	325g
LADY SADDLES	RAILS	SHELL	COVER	RAIL DIMENSIONS	COLOR	WEIGHT
	CrN/Ti	Nylon + Carbon	Micro Fiber	7 x 7	Black, White	220g
	Steel	Nylon + Carbon	Synthetic Leather	7 x 7	Black, White	260g

ROAD WHEELS

SUPERLOGIC ROAD WHEELS

A ProTour-caliber race wheel that's fast without being harsh.

Most race wheels sacrifice some ride quality for speed. But with Trifecta™ lacing, we're able to offer the best of both worlds. The two-cross spokes add some vertical compliance while resisting wind-up under acceleration, while the radial spokes eliminate lateral flex.



SUPERLOGIC
CLINCHER

- » Reynolds-built DV46UL rims
- » New Cryo Blue pads reduce brake heat stress by 20%
- » Ridden to victory by European and domestic pro's
- » Handbuilt with Trifecta™ lacing: 20hole front, 24 hole rear, Sapim CX-Ray bladed spokes
- » Ritchey SuperLogic cold forged hubs, German SKF sealed bearings and patented 6 pawl, 12-point micro-clutch engagement system
- » Load specific bearings: 28mm drive side, 24mm non-drive
- » Ritchey titanium quick releases
- » 1,392g (clinchers set) / 1,120g (tubular set)



FACT: Nice and stiff; predictable braking; handled well in strong winds.” – VeloNews, March 2011

**SUPERLOGIC
TUBULAR**

CARBON WHEELS	TYPE	RIMS	RIM DEPTH	HUBS	SPOKES	NIPPLES	BUILD	FREEHUB	FINISH	WEIGHT
	Clincher Front	Carbon	46mm	SuperLogic	Sapim CX-Ray	Internal	Radial	-	UD Carbon	604g
	Clincher Rear	Carbon	46mm	SuperLogic Zero System	Sapim CX-Ray	Internal	24x2X Trifecta	Alloy	UD Carbon	790g
	Tubular Front	Carbon	46mm	SuperLogic	Sapim CX-Ray	Internal	Radial	-	UD Carbon	463g
	Tubular Rear	Carbon	46mm	SuperLogic Zero System	Sapim CX-Ray	Internal	24x2X Trifecta	Alloy	UD Carbon	658g

[Weights shown without quick releases or rim strips.]

WCS APEX CARBON CLINCHERS NEW

Race-ready full carbon clincher that won't break the bank.

- » Reynolds-built Assault rims handbuilt with ride-smoothing TriFecta™ lacing
- » New Cryo Blue pads reduce brake heat stress by 20%
- » Sapim CX-Ray spokes; 20hole front, 24 hole rear
- » Ritchey WCS cold forged hubs, German SKF sealed bearings and patented 6 pawl, 12-point micro-clutch engagement system
- » Load specific bearings: 28mm drive side, 24mm non-drive
- » Ritchey titanium quick releases.
- » 1,537g (set)



FACT: Mechanics rejoice! Ritchey wheels use standard J-bend spokes from Sapim and DT for their incredible strength and serviceability.

ATTACK CARBON WHEELS	TYPE	RIMS	RIM DEPTH	HUBS	SPOKES	NIPPLES	BUILD	FREEHUB	FINISH	WEIGHT
	Clincher front	Carbon	46	WCS	Sapim CX/CX-Ray	Internal	20x1	–	UD Carbon	643g
	Clincher rear	Carbon	46	WCS Zero System	Sapim CX/CX-Ray	Internal	24x2X TriFecta	Alloy	UD Carbon	894g

WCS APEX CARBON TUBULARS

Ritchey's line of fast, stiff and tough-as-nails aero race wheels featuring monocoque rims and a proprietary manufacturing process.

- » Exceptional lateral stiffness and acceleration
- » Handbuilt with ride-smoothing Trifecta™ lacing
- » 50mm is 20/24h; 88mm is 16/24h
- » Ritchey WCS cold forged hubs, German SKF sealed bearings and patented 6 pawl, 12-point micro-clutch engagement system
- » Available for Shimano/SRAM and Campagnolo 10/11 speed
- » Load specific bearings: 28mm drive side, 24mm non-drive
- » Ritchey titanium quick releases
- » Standard carbon brake pads included
- » 1,395g (50mm set) / 1,684g (88mm set)



PRO APEX CARBON ALLOY CLINCHERS

Laterally stiff, fast in the wind and easy on the wallet.

- » Handbuilt with Sapim Race spokes; 20 hole front, 24 hole rear
- » Ritchey PRO cold forged hubs
- » Ritchey quick releases
- » 1,841g (set)



APEX CARBON WHEELS	TYPE	RIMS	RIM DEPTH	HUBS	SPOKES	NIPPLES	BUILD	FREEHUB	FINISH	WEIGHT
	Tubular front	Carbon	88mm	WCS	Sapim CX/CX-Ray	Brass 2.0	16x1X	-	3K Carbon	730g
	Tubular rear	Carbon	88mm	WCS Zero System	Sapim CX/CX-Ray	Brass 2.0	24x2X Trifecta	Alloy	3K Carbon	954g
	Tubular front	Carbon	50mm	WCS	Sapim CX/CX-Ray	Brass 2.0	20x1X	-	3K Carbon	580g
	Tubular rear	Carbon	50mm	WCS Zero System	Sapim CX/CX-Ray	Brass 2.0	24x2X Trifecta	Alloy	3K Carbon	804g
	Tubular front	Carbon	38mm	WCS	Sapim CX/CX-Ray	Brass 2.0	20x1X	-	3K Carbon	644g
	Tubular rear	Carbon	38mm	WCS Zero System	Sapim CX/CX-Ray	Brass 2.0	24x2X Trifecta	Alloy	3K Carbon	820g
	Clincher front	Carbon/Alloy	38mm	PRO	Sapim Race	Brass 2.0	20x1X	-	3K Carbon	818g
	Clincher rear	Carbon/Alloy	38mm	PRO Zero System	Sapim Race	Brass 2.0	24x2X	CrMo	3K Carbon	1023g

[Weights shown without quick releases or rim strips.]

ROAD WHEELS

WCS ZETA WHEELS

The quintessential premium quality aluminum clincher—fast enough to win criteriums and tough enough for Paris Roubaix.

- » Vanadium alloy rim material: exceptional durability and braking performance
- » Welded, machined and shot-peened rims
- » 24mm box rim profile balances lateral rigidity with rough road compliance
- » Handbuilt with ride-smoothing Trifecta™ lacing: 20hole front, 24 hole rear
- » Ritchey WCS cold forged hubs, German SKF sealed bearings and patented 6 pawl, 12-point micro-clutch engagement system
- » Available for Shimano/SRAM and Campagnolo 10/11 speed
- » Load specific bearings: 28mm drive side, 24mm non-drive
- » OCR rear hub/rim design reduces wheel dish
- » Ritchey titanium quick releases
- » 1,623g (set)



NEW GRAPHICS AND
BLACK SPOKES FOR 2012

FACT: “The WCS Zeta is more than good company, it is quite simply the best company we have ever had in an aluminum clincher under \$1,000 for long miles.” – Peloton Magazine,

ZETA WHEELS	TYPE	RIMS	JOINT	HUBS	SPOKES	NIPPLES	BUILD	FREEHUB	FINISH	WEIGHT
	front	WCS Zeta Vanadium	Welded	WCS	Sapim CX/CX-Ray	Brass	20x1X	-	BB Black	689g
	rear	WCS Zeta OCR Vanadium	Welded	WCS Zero System	Sapim CX/CX-Ray	Brass	24x2X Trifecta	Alloy	BB Black	934g

PRO ZETA WHEELS

All-around road wheel that will outperform wheels costing twice as much.

- » 6061 alloy, 24mm box rim profile balances lateral rigidity with rough road compliance
- » Sapim Race spokes; 20hole front, 24 hole rear
- » Ritchey cold forged hubs
- » Ritchey CrMo quick releases
- » 1,767g (set)



ZETA WHEELS	TYPE	RIMS	JOINT	HUBS	SPOKES	NIPPLES	BUILD	FREEHUB	FINISH	WEIGHT
	front	Pro Zeta	Sleeve	Pro	Sapim Race	Brass	20x1X	-	HP Black	730g
	rear	Pro Zeta OCR	Sleeve	Pro Zero System	Sapim Race	Brass	24x2X	Cromo	HP Black	994g

MOUNTAIN WHEELS

SUPERLOGIC CARBON DISC

- » High modulus LCT monocoque constructed rims for unparalleled stiffness – 19.5mm internal width
- » SuperLogic Swiss-made cold forged hubs, sealed bearings
- » Centerlock disc mount with available adapter for 6-bolt disc rotors
- » 9mm or 15mm front hub axle option
- » 28 hole front / rear; DT Revolution spokes
- » Hand built to 0.2mm trueness/roundness tolerance
- » New WCS titanium axle skewers
- » Finish: Unidirection carbon fiber
- » Crash replacement program
- » 1,304g (clincher set) / 1,203g (tubular set)



TUBULAR VERSION
AVAILABLE

CARBON WHEELS	TYPE	RIMS	RIM DEPTH	HUBS	SPOKES	NIPPLES	BUILD	FREEHUB	FINISH	WEIGHT
RITCHEY CARBON SUPERLOGIC	Clincher Front	Monocoque Carbon	20mm	SuperLogic	DT Revolution 2.0/1.5	Alloy 2.0	28x3X	-	UD Carbon	584g
	Clincher Rear	Monocoque Carbon	20mm	SuperLogic	DT Revolution 2.0/1.5	Alloy 2.0	28x3X	Alloy	UD Carbon	712g
RITCHEY CARBON SUPERLOGIC	Tubular Front	Monocoque Carbon	30mm	SuperLogic	DT Revolution 2.0/1.5	Alloy 2.0	28x3X	-	UD Carbon	529g
	Tubular Rear	Monocoque Carbon	30mm	SuperLogic	DT Revolution 2.0/1.5	Alloy 2.0	28x3X	Alloy	UD Carbon	674g

[SuperLogic hubs are manufactured in Switzerland. SuperLogic weights are listed with a 15mm Thru-Axle front hub]
 [6 bolt disc brake adapters available seperately]

WCS VANTAGE II CARBON 29" NEW

Ruthlessly efficient, World Cup proven race wheels.

- » Carbon monocoque construction using proprietary bladderless process
- » 20mm rim height and 26.5mm width to optimize lateral rigidity
- » Handbuilt and trued to 0.2mm tolerance
- » Ritchey WCS cold forged hubs, German SKF sealed bearings and patented 6 pawl, 12-point micro-clutch engagement system
- » Centerlock compatible hubs
- » Tubeless Ready
- » 1,537g (set)



CARBON WHEELS	TYPE	RIMS	RIM DEPTH	INNER WIDTH	HUBS	SPOKES	NIPPLES	BUILD	FREEHUB	FINISH	WEIGHT
	Clincher Front	Monocoque Carbon	20mm	21mm	WCS	DT Competition 2.0/1.8	Alloy 2.0	28x3X	-	UD Carbon	653g
	Clincher Rear	Monocoque Carbon	20mm	21mm	WCS	DT Competition 2.0/1.8	Alloy 2.0	28x3X	Alloy	UD Carbon	894g

[Weights shown without quick releases or rim strips.]

MOUNTAIN WHEELS

CARBON DISC WHEELS

- » 20mm profile, 25mm wide UD carbon monocoque construction
- » Rim design provides superior lateral rigidity
- » Manufacturing process results in no airbag remaining in rim interior
- » Cold forged and CNC hubshell
- » 6 pawl, 12 point hub drive engagement system
- » Forged QR with CNC cam and blind pivot hole. CroMo skewers. Front and rear specific. (Now available with 15mm through hub axle front)
- » Shimano centerlock compatible with 6-bolt rotor adapters sold separately



WCS CARBON

DISC OCR WHEELS

- » Front and rear hubs are forged and CNC machined to withstand stresses applied by disc brakes
- » Custom cartridge bearings packed with Ritchey grease
- » Double-wall Disc OCR 32-hole rims with reinforced eyelets
- » Anti-pinch rim lip and butted spokes
- » WCS wheels utilize light weight TRX66 welded rims
- » Handlebuilt for precision and reliability
- » WCS wheels are compatible with Shimano centerlock rotor (6-bolt adapter sold separately)



PRO



WCS

DISC OCR WHEELS	TYPE	RIMS	HUBS	DISC BRAKE TYPE	SPOKES	NIPPLES	BUILD	FREEHUB	FINISH	WEIGHT
	Front	Monocoque Carbon	WCS	CenterLock	DT Competition 2.0/1.8	Alloy 2.0	28x3X	-	3K Carbon / UD Carbon	625g
	Rear	Monocoque Carbon	WCS	CenterLock	DT Competition 2.0/1.8	Alloy 2.0	28x3X	Alloy	3K Carbon / UD Carbon	770g
	front	WCS Disc OCR	WCS Skraxle Disc	CenterLock	DT Competition 2.0/1.8	Alloy 2.0	28x3X	-	Black/White	740g
	rear	WCS Disc OCR	WCS HF Disc	CenterLock	DT Competition 2.0/1.8	Alloy 2.0	28x3X	Alloy	Black/White	829g
	front	Pro Disc OCR	Pro Skraxle Disc brake	6-Bolt	DT Competition 2.0/1.8	Brass 2.0	28x3X	-	Black	860g
	rear	Pro Disc OCR	Pro Disc brake	6-Bolt	DT Competition 2.0/1.8	Brass 2.0	28x3X	Cromo	Black	1075g

MOUNTAIN TIRES

SHIELD™

- » Low-profile tread pattern provides perfect all-round qualities with incredible traction and control
- » Side knobs employ VFA design for consistent traction at all cornering angles
- » WCS version features dual compound – softer side enhance cornering, firmer center section rolls faster and is more durable
- » WCS level is tubeless ready
- » Available in 29" version for 2012

NEW

SHIELD	26X2.1	29X2.1	
	540g	554g	((TUBELESS READY))
	640g	654g	



Z-MAX GRIP™

- » The latest Z-Max tire features an ultra soft durometer for improved traction
- » Race proven Z-Max tread design with increased knob height for muddy conditions
- » Tubeless ready tire bead on WCS level

Z-MAX GRIP	26X2.0	
	650g	((TUBELESS READY))
	750g	



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
	451g	500g
	557g	609g



MOUNTAIN TIRES

Z-MAX PREMONITION™

- » An open tread, square profile interpretation of Z-Max and the VFA concept
- » Trapezoidal knobs with sipes provide aggressive traction and braking performance
- » Side knobs employ VFA design for consistent traction at all cornering angles
- » Open tread design delivers superior mud-shedding performance
- » WCS version features dual compound for better cornering grip and faster rolling/lower wear center section

Z-MAX PREMONITION	26X2.1
	519g
	670g



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
	432g
	546g



CROSS & SPECIALTY TIRES



SPEEDMAX CROSS

- » Low rolling resistance
- » Excellent mud clearing capability
- » Diamond pattern center with VFA baffles

SPEEDMAX CROSS	700X32	700X35	700X40
<i>PRO</i>	-	446g	-
<i>Comp</i>	452g	476g	483g



32

35 / 40

SPEEDMAX DELTA™ 700

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

SPEEDMAX DELTA	700X35
<i>Comp</i>	449g



TOM SLICK 26"

- » Great all-round training tire
- » VFA side grooves improve grip in all conditions
- » Dual tread compound makes this a great high performance tire for training and touring

TOM SLICK	26X1.0	26X1.4
<i>PRO</i>	254g	386g
<i>Comp</i>	330g	472g



RACE SLICK TUBULAR

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

RACE SLICK TUBULAR	700X23	TPI	CASING
	270g	290	cotton
	300g	290	-

RACE SLICK CLINCHER

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

RACE SLICK CLINCHER	700X23	TPI	CASING
	230g	120	nylon
	270g	26	nylon



HEADSETS

DROP IN HEADSETS

- » Carbon headsets available in 3K and UD finishes
- » Ti coated bearings utilized in WCS and Carbon headsets



WCS CARBON



WCS



WCS CROSS



PRO TAPER



PRO

PRESS FIT HEADSETS



SUPERLOGIC PF



CARBON WCS



WCS CROSS



PRO TAPER



COMP TAPER

DROP IN HEADSET	STACK HEIGHT	MATERIAL	UPPER FIT (S.H.I.S.)	LOWER FIT (S.H.I.S.)	UPPER BEARING OD	LOWER BEARING OD	TOP COVER OD	BEARING	WEIGHT
WCS	9.9mm	Alloy	IS41/28.6 or IS42/28.6	IS 41/30 or IS42/30	41.0/41.8	41.0/41.8	46	Sealed Cartridge Ti Coated	70g
WCS Cross	16.8mm	Alloy	IS42/28.6	IS42/30	41.8	41.8	46	Sealed Cartridge Ti Coated	85g
PRO	9.9mm	Alloy	IS41/28.6 or IS42/28.6	IS 41/30 or IS42/30	41.8	41.0/41.8	46	Sealed Cartridge	70g
PRO Cross	16.8mm	Alloy	IS42/28.6	IS42/30	41.8	41.8	46	Sealed Cartridge	74g
Comp Taper	16.4mm	Alloy	IS42/28.6	IS52/40	41.8	52	46	Semi Cartridge	133g
PRESS FIT HEADSET	STACK HEIGHT	MATERIAL	UPPER FIT (S.H.I.S.)	LOWER FIT (S.H.I.S.)	UPPER HT OD/ID		LOWER HT OD/ID	BEARING	WEIGHT
RITCHEY CARBON SUPERLOGIC	12.5mm	Alloy	ZS44/28.6	ZS44/30	50/44		50/44	Ceramic hybrid	79g
RITCHEY CARBON WCS	18mm	Carbon/Alloy	ZS44/28.6	ZS44/30	50/44		50/44	Sealed Cartridge Ti Coated	86g
WCS Cross	18mm	Alloy	ZS44/28.6	ZS44/30	50/44		50/44	Sealed Cartridge Ti Coated	100g
PRO Taper	12.9mm	Alloy	ZS44/28.6	ZS55/40	50/44		61/55	Sealed Cartridge	117g
PRO Cross	18mm	Alloy	ZS44/28.6	ZS44/30	50/44		50/44	Sealed Cartridge	145g
Comp Taper	11.3mm	CroMo	ZS44/28.6	ZS55/40	50/44		61/55	Semi Cartridge/Loose Ball	109g

LOGIC® STANDARD HEADSETS

- » Premium quality SuperLogic headset with ceramic hybrid bearings and dual-lip labyrinth seals for superior sealing and performance
- » Lightweight, precision-machined aluminum cups
- » Logic = Smaller upper angular cartridge bearing saves weight, larger lower angular cartridge bearing boost strength and durability
- » Uses Ritchey grease and sealed design for years of trouble-free performance



SUPERLOGIC



WCS LOGIC CROSS



WCS



PRO



COMP

LOGIC HEADSET	STACK HEIGHT	COMPONENT MATERIAL	UPPER FIT (S.H.I.S.)	LOWER FIT (S.H.I.S.)	BEARING	WEIGHT
RITCHEY CARBON SUPERLOGIC	26.9mm	Alloy	EC34/28.6	EC34/30	Ceramic hybrid	95g
WCS 1"	28mm	Alloy	EC30/25.4	EC30/26	Sealed Cartridge Ti Coated	94g
WCS 1-1/8"	28.3mm	Alloy	EC34/28.6	EC34/30	Sealed Cartridge Ti Coated	103g
WCS Logic Cross	36.6mm	Alloy	EC34/28.6	EC34/30	Sealed Cartridge Ti Coated	120g
PRO	32mm	Alloy	EC34/28.6	EC34/30	Sealed Cartridge	111g
Comp	30.2mm	CroMo	EC34/28.6	EC34/30	Semi-Cartridge	160g
LOGIC	N/A	CrMo/Plastic	EC34/28.6	EC34/30	Ball Bearing	N/A
LOGIC THREADED 1"	N/A	CrMo/Plastic	EC30/25.4	EC30/26	Ball Bearing	N/A
LOGIC THREADED 1-1/8"	N/A	CrMo/Plastic	EC34/28.6	EC34/30	Ball Bearing	N/A

HEADSET SPACERS

- » Available in 5mm and 10mm precut heights
- » Outer diameter is contoured to blend with Ritchey stem OD
- » CNC machined for precision
- » Alloy spacers available in Wet White



SPACERS	MATERIAL	FINISH	HEIGHT	
			5	10
RITCHEY CARBON 	Carbon	UD Carbon	X	X
PRO	Alloy	BB Black/Wet White	X	X

COMPRESSION DEVICE

- » For use with all 1-1/8" headsets



CARBON

COMPRESSION ASSEMBLIES	MATERIAL	FORK STEERER MATERIAL	TOP CAP FINISH	WEIGHT
RITCHEY CARBON 	Carbon	Alloy	3K Carbon, UD Carbon	22g

ECHELON ROAD PEDAL

The Echelon offers a proven pedal design in a lightweight, reasonably-priced package.

- » Combination of bushings and bearings for extremely long life
- » Low profile cleat/pedal interface for maximum pedaling efficiency
- » Adjustable spring tension
- » Long-life aluminum body and high strength carbon claw
- » Sealed cartridge outer bearing



ROAD PEDALS	BODY	AXLE MATERIAL	CLAW	INNER BEARING	MIDDLE BEARING	OUTER BEARING	FLOAT	COMPATABILITY	FINISH	WEIGHT
 Echelon	Alloy	CroMo	Nylon/Carbon	Bushing	Needle	Sealed Cartridge	7°	Look Keo™	BB Black	233g

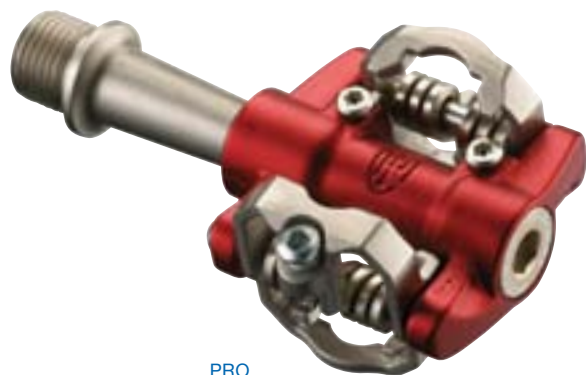
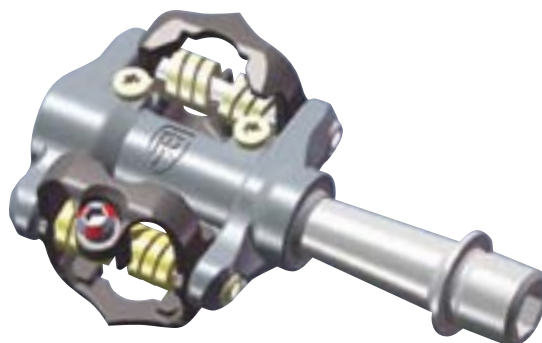
PARADIGM MTN PEDALS

Ritchey's latest World Cup caliber clipless pedal design.

- » Reliable retention system offers fast entry/release and excellent mud shedding characteristics
- » Low profile cleat design and overall height for optimal pedaling efficiency
- » CrMo steel axle and tough forged aluminum body
- » Bushing, needle and cartridge bearing system for long service life and excellent protection from the elements

NEW

WCS



PRO



PRO

COMP V4 MTN PEDALS

- » Low profile Body
- » Cast steel body is stronger and lighter than competing alloy versions
- » Smooth burnished bearing surfaces
- » Uses top quality Ritchey bearing grease
- » Available in white or red with black axle and claws



MOUNTAIN PEDALS	BODY	AXLE MATERIAL	INNER BEARING	MIDDLE BEARING	OUTER BEARING	FLOAT	FINISH	WEIGHT
<i>Paradigm</i>	Aluminum	CroMo	Bushing	Needle	Sealed Cartridge	4°	TBD	225g
<i>Paradigm</i>	Aluminum	CroMo	Bushing	Needle	Sealed Cartridge	4°	BB Black, Red Anodized	255g
<i>V4</i>	CroMo	CroMo	Ball bearing	—	Ball bearing	4°	White, Red	340g

CARBON ROAD FORKS

- » One piece carbon monocoque design (WCS & Pro)
- » High Modulus Fiber (HMF) for superior strength
- » Use of different fiber types based on their specific properties to handle different load types as best as possible in the areas they occur (e.g. side load, torsion, impact,...)
- » Fiber orientation has been optimized to absorb and dissipate loads
- » Smooth internal fiber flow in crown/steerer area to deliver best force transfer from crown to shaft and increased impact strength
- » Available in 43 or 45mm rake versions



CARBON ROAD FORK	BLADE	CROWN	STEERER	RAKE	DROP OUT	CROWN DIA.	AXLE TO CROWN	FINISH	WEIGHT
RITCHIEY CARBON WCS	Carbon	Carbon	Carbon	43/45	Alloy	45	368	UD Carbon	299g
RITCHIEY CARBON PRO	Carbon	Carbon	Carbon	43/45	Alloy	45	368	UD Carbon	345g
RITCHIEY CARBON COMP	Carbon	Alloy	Alloy	43/45	Alloy	45	368	UD Carbon	540g

CARBON CROSS FORK

- » Specially formed blades provide precision handling and superb vibration damping
- » Designed to work with either integrated headsets or standard headsets
- » Monocoque construction
- » One of the lightest cyclocross forks on the market
- » Available in 45 and 50mm crown diameters



WCS CROSS



PRO CROSS

CARBON MTN FORKS

- » One-piece monocoque construction (WCS)
- » Full carbon dropouts
- » Disc brake tabs are one-piece carbon, non-removable
- » Suspension corrected axle-crown height
- » Pro fork available in 26" or 29"



WCS MTN



PRO MTN

CARBON CROSS FORK	BLADE	CROWN	STEERER	RAKE	BLADE SHAPE	DROP OUT	CROWN DIA.	AXLE TO CROWN	SIZE	FINISH	WEIGHT
RITCHEY CARBON WCS	Carbon	Carbon	Carbon	45	Straight	Alloy	45/50	400	700c	UD Carbon	470g
RITCHEY CARBON PRO	Carbon	Carbon	Carbon	45	Straight	Alloy	45/50	400	700c	UD Carbon	495g
CARBON MTN FORKS	BLADE	CROWN	STEERER	RAKE	BRAKE MOUNT	DROP OUT	CROWN DIA.	AXLE TO CROWN	SIZE	FINISH	WEIGHT
RITCHEY CARBON WCS	Carbon	Carbon	Carbon	48	IS Disc	Carbon	50mm	409	26"	3K Carbon	465g
RITCHEY CARBON PRO	Carbon	Alloy	Alloy	38	IS Disc	Carbon	50mm	445/480	26/29"	3K Carbon w/HP Black	735g (26")

[All weights shown are with uncut steerer tube.]

TRUEGRIP™ GRID NEW

- » Dual compound, no-slip Kraton rubber
- » Ergonomically designed with TR shield pattern
- » Available in black/yellow, black/blue, black/grey, black/red, black/white



SPEEDMAX LOCKING

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



WCS TRUEGRIP

- » Tough neoprene foam is superlight, plush and grippy even in wet conditions
- » Slim anatomical shape
- » One of the lightest grips available
- » 43g without end plugs



WCS ERGO TRUEGRIP

- » Tough neoprene foam is superlight, plush and grippy even in wet conditions
- » Inner "hand-stop" collar
- » 36g without end plugs



TGV

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



TRUEGRIP VI

- » Dual compound, no-slip Kraton rubber
- » Endplugs available for 15-17mm, 18-20, 3mm and 19-21mm inner diameter
- » Ergonomically designed
- » Available in black and white



ACCESSORIES

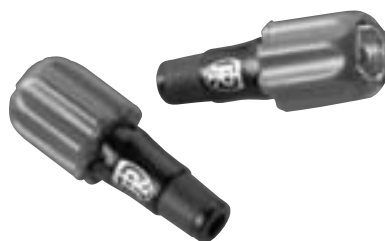
BAR TAPE & ADJUSTABLE PLUGS

- » Highest quality tape
- » Embossed logo
- » Shock absorbing, non-slip and sweat resistant
- » 2 sided self adhesive backing
- » 180cm length
- » Adjustable Bar End Plug available in black, blue, red, yellow, white



ROAD BARREL ADJUSTERS

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



TORQKEY

- » Properly install your Ritchey 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 bars and stems)
- » 4Nm (Break-Away) and 5Nm versions available (torque key)
- » 53 grams



SNAP ON RIM TAPE

- » Offers secure, snug fit to rim
- » 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, 700c/20mm, 650c/17mm, 26"/17mm and 26"/20mm



FRAMES



FACT: In 1995, the Ritchey Mountain Cross featured mountain bike geometry and fat 700c rubber (which are now called 29er tires). The first 29er? Maybe, but the world wasn't ready.

P-29ER

NEW

The return of the legendary Ritchey Mountain Bike. Tom Ritchey applied 38 years of racing, designing and building steel mountain bikes into a new model—the P-29er.

Like any Ritchey, this bike is born to go fast without sacrificing comfort or durability. Heat-treated, triple-buttressed Ritchey Logic II tubing in our own unique butting profiles results in a frame that balances rough trail compliance with sprint-winning stiffness.

The 29er-specific geometry was defined by the best way we know: countless hours of saddle time under Tom Ritchey and World Cup legend Thomas Frischknecht and other racers. The result: nimble handling that captures the benefits of the big wheels, stable but not sluggish, equally at home on all-day epics or tight, technical singletrack race courses.

The instantly-recognizable tri-color fade is a tribute to the classic Ritchey P-series racing mountain bike.

SIZES: S, M, L, XL

WEIGHT: 4.74lbs for frame/dropouts (Size: L)

FORK: Designed for use with 100mm travel forks

Frame Size	S	M	L	XL
Head Tube Length	90	100	115	130
Top Tube (actual)	560	571	589	611
Top Tube (effective)	580	595	615	635
Seat Tube Length	380	431	483	533
Seat Tube Angle	73°	73°	73°	73°
Head Tube Angle	69.5°	70°	70°	70°
Chainstay Length*	447	447	447	447
Post Diameter	27.2	27.2	27.2	27.2

*Adjustable



The forged and machined integrated headtube uses standard 1 1/8" steer tubes and Ritchey drop-in headset bearings, but narrows to 32mm at the thinnest section—almost the size of a 1-inch steer tube. It's a stronger design that allows for an 80 gram weight reduction over a traditional 1 1/8" steer tube design. It also makes for a stronger front triangle.



The heat-treated down tube has a bend to accommodate fork crowns.



Tange Slider dropouts. Gears? Singlespeed? Your call.



FACT: Thomas Frischknecht, longtime Ritchey racer and close friend to Tom Ritchey, won his first cyclocross world title at age of 18.

SWISS+CROSS

NEW

Many Ritchey-sponsored mountain bike champions were also cyclocross champions—Thomas Frischknecht, Henrik Djernis and Ruthie Matthes, to name a few. And though they were paid to race Ritchey mountain bikes, they often wanted a Ritchey cyclocross bike to race in the winter.

This ultimately resulted in another iconic Ritchey model—the SwissCross. And for 2012 the SwissCross is back, and better than ever.

We started with the same forged-and-machined integrated head tube design found on the P-29er—80 grams lighter than a standard 1 1/8" head tube and just as strong—a design which also provides much-needed shouldering room at the head tube.

Tubing is an all-new triple-buttressed, heat treated steel designed to Tom's specifications for a classically lightweight, compliant yet tough-as-nails frame. Geometry has been updated to reflect what cross riders want: race-ready handling and responsiveness that's still versatile enough to serve as a capable all-around rough road/trail bike.

Tire clearance? Plenty. The SwissCross is designed with cross racing in mind, after all. But with two bottle cage mounts, the SwissCross is perfect for long mixed rides in the off-season.

SIZES: 49, 51, 53, 55, 57, 59cm

WEIGHT: 5.18lbs including fork (55cm)

FORK: Painted to match Ritchey WCS Cross

Frame Size (cm)	49	51	53	55	57	59
Head Tube Length	100	115	130	150	170	190
Top Tube (actual)	503	513	527	540	553	564
Top Tube (effective)	515	527	540	555	568	580
Seat Tube Length	460	475	495	515	535	555
Seat Tube Angle	74.5°	74°	74°	73.5°	73.5°	73°
Head Tube Angle	71°	71.5°	71.5°	72°	72°	72°
Chainstay Length	425	425	425	425	425	425
Post Diameter	27.2	27.2	27.2	27.2	27.2	27.2



Proprietary forged, heat treated and machined integrated head tube uses standard Ritchey drop-in bearings and saves 80 grams over a standard head tube and cups. It also makes for a stronger front triangle, and more room for shouldering.



Ritchey forged socket dropouts are bombproof yet weigh a scant 17 grams a pair.



Ritchey WCS Cross fork and headset with integrated cable hanger included.

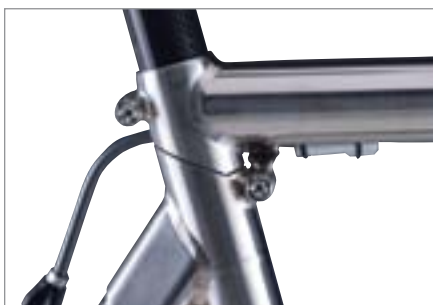
Take the legendary and inspiring ride quality of a hand-built Tom Ritchey bicycle and add a revolutionary coupling system that allows you to pack it and travel around the world with ease. The result? The ultimate full-size travel bike, the Ritchey Break-Away.

The Break-Away design uses a clever double-clamp at the seatpost and a patented compression coupling system at the downtube, adding only 100 grams to the frame's total weight, yet it rides (and looks) like a standard frame.

The frame quickly disassembles (cable disconnects are included) and packs into a case that measures a scant 9"x26"x29" (23x66x73.5cm). Small enough to fly free on many airlines.

TI/CARBON BREAK-AWAY® ROAD FRAME

- » Custom drawn 3/2.5 aerospace grade titanium tubing with road-smoothing high modulus carbon rear triangle
- » Bead blasted graphics
- » 4.2lbs frame/fork (56cm); builds up to 15.3lbs with SuperLogic and SRAM Red
- » WCS carbon fork and headset included



Patented locking system joins seat tube and top tube.



Patented compression coupling system joins front and rear triangles near the bottom bracket shell. Quick-Disconnect cable adaptors included.



The Break-Away Bike disassembles and assembles in minutes. (Travel case included with all models.)

FACT: Tom developed the Break-Away as a means to transport a full-size bike on his ultralight plane when flying from Palo Alto to his ranch in Jenner, CA.

TI BREAK-AWAY® CROSS FRAME

- » Custom drawn 3/2.5 aerospace grade titanium tubing
- » Bridgeless chainstays for increased tire clearance
- » Rack eyelets
- » Bead blasted graphics
- » 4.4 lbs frame/fork (56cm)
- » WCS Cross fork and headset included



BREAK-AWAY® ROAD FRAME

- » Custom butted, heat treated Ritchey CrMo steel tubing
- » New larger 1 3/8" downtube for 2012
- » 5.2lb frame/fork (56cm)
- » Ritchey Pro carbon fork and headset included



BREAK-AWAY® CROSS FRAME

- » Custom butted, heat treated Ritchey CrMo steel tubing
- » New larger 1 3/8" downtube for 2012
- » Rack eyelets
- » 5.9lb frame/fork (56cm)
- » Ritchey Pro Cross fork and headset included

BREAK-AWAY ROAD FRAME GEOMETRY (TI/CARBON AND STEEL FRAMES)

Frame Size (cm)	48	50	52	54	56	58	60
Top Tube (Effective)	52.2	53	54	55	56	57.5	59
Seat Tube (C to top)	46	48	48	48	54	54	54
Seat Tube Angle	75°	75°	75°	73.5°	73.5°	73.5°	73.5°
Head Tube Angle	72°	72.5°	73°	73.5°	73.5°	73.5°	73.5°
Bottom Bracket Drop	72	72	72	70	70	70	70
Chainstay	41	41	41	41.5	41.5	41.5	41.5
Wheelbase	98	98.1	98.7	98.5	99.5	101.4	102.5
Post Diameter	27.2	27.2	27.2	27.2	27.2	27.2	27.2

BREAK-AWAY CROSS FRAME GEOMETRY (TITANIUM AND STEEL CROSS FRAMES)

Frame Size (cm.)	48*	50	52	54	56	58	60
Top Tube (Effective)	51.5	52.2	53	54	55.5	57	58
Seat Tube (C to top)	48	50	50	50	56	56	56
Seat Tube Angle	74°	74°	74°	73.5°	73.5°	73.5°	73.5°
Head Tube Angle	71.5°	71.5°	71.5°	72°	72°	72°	72°
Bottom Bracket Drop	65	65	65	65	65	65	65
Chainstay	42.5	42.5	42.5	42.5	42.5	42.5	42.5
Wheelbase	98.3	99.1	99.9	101	101.6	103	102.5
Post Diameter	27.2	27.2	27.2	27.2	27.2	27.2	27.2

* 48CM CROSS FRAME ONLY AVAILABLE IN STEEL



RITCHEY DESIGN
CORPORATE OFFICE

620 Spice Island Drive
Sparks, NV 89431

RITCHEY DESIGN SALES
& WARRANTY OFFICE

575 Old County Road
San Carlos, CA 94070
1-800-Ritchey (748-2439)
tel - (650) 587.1841
fax - (650) 596.7384

RITCHEY
INTERNATIONAL, LTD

Via Cantonale 2,
Grancia-Lugano
CH-6916
fax. 41.91.960.5221

RITCHEY DESIGN, INC.
TAIWAN BRANCH

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

RITCHEYLOGIC.COM