



2004 TANDEM SPECIFICATIONS

PRIMERA/PRIMERA CO-PILOT

FRAME SIZE	HEAD ANGLE	SEAT ANGLE FRONT	SEAT ANGLE REAR	TOP TUBE FRONT	TOP TUBE REAR	BOTTOM BRACKET HEIGHT	STANDOVER FRONT	STANDOVER REAR
21/18	73°	73°	73°	21.75"	28.50"	10.5"	30.25"	27.35"
22/19	73°	73°	73°	22.5"	28.50"	10.5"	30.85"	28.35"
23/20	73°	73°	73°	23.25"	28.50"	10.5"	31.75"	29.25"
23/18	73°	73°	73°	23.25"	28.50"	10.5"	31.10"	27.10"

Primera Frame Material: Co-Motion designed zonally-buttet heat-treated tandem tubing.

Primera Co-Pilot Frame Material: Co-Motion designed zonally-buttet heat-treated tandem tubing for S+S coupler integration.

COMPONENT SPECIFICATIONS

Fork	Co-Motion taper-gauge Cro-Moly w/Co-Motion CNC tandem steerer	Tires	Panaracer Pasea 700x28c
Headset	RaceFace threadless	QR Skewers	Salsa
Bottom Brackets	Full Speed Ahead Platinum ISIS	Handlebars	Deda Piegia 42, 44, 46 or Profile Stoker
Crankset	Full Speed Ahead Gossamer	Captain Stem	Ritchey Pro 8-13cm
Chainrings	53-42-30	Stoker Stem	Co-Motion telescoping adjustable
Brakes	Avid Single Digit 5	Seatposts	Kalloy Seraph Microadjust 29.8mm
Brake Levers	Shimano 105 STI Flite Deck	Saddles	Co-Motion D2 men's and women's
Front Derailleur	Shimano Ultegra triple	Paint	Select from 30 PPG Global system metallic and opaque colors or upgrade to 15 House of Kolor pearlescent colors.
Rear Derailleur	Shimano XT 9sp	Total Bike Weight	37.1 pounds. Co-Pilot option adds approximately 2 pounds.
Cassette	LX 11-32 9sp	Optional Equipment:	Co-Motion max-adjustable stoker stem. Co-Motion/WoundUp carbon tandem fork. Chris King headset. RockShox suspension seatpost. Arai drum brake with QR kit. Shimano Ultegra tandem crankset package. Bar-end shifters and 287-V brake levers in lieu of STI. Avid mechanical disk brake. Touring package.
Shifters	Shimano 105 STI Flite Deck	Primera Co-Pilot Travel Features:	Cable splitters for rear brake and shifter cables, one-key release for left front crankarm.
Chain	Shimano CN-HG93		
Pedals	none		
Hubs	Hugi Symmetric 36h, 40h or 48h		
Spokes	DT 14 gauge		
Rims	Velocity Dyad		

MOCHA/MOCHA ROAD CO-PILOT (ROAD OR OFFROAD)

FRAME SIZE	HEAD ANGLE	SEAT ANGLE FRONT	SEAT ANGLE REAR	TOP TUBE FRONT	TOP TUBE REAR	BOTTOM BRACKET HEIGHT	STANDOVER FRONT	STANDOVER REAR
18/15	71.5°	73°	73°	21.25"	28.50"	10.5"	27.15"	23.9"
19.5/17	71.5°	73°	73°	21.8"	28.50"	10.5"	28.65"	26.0"
21/18.5	71.5°	73°	73°	22.5"	28.50"	10.5"	30.10"	27.9"

Mocha Road Frame Material: Co-Motion designed zonally-buttet air-hardening steel tandem tubing.

Mocha Road Co-Pilot Frame Material: Co-Motion designed zonally-buttet heat-treated tandem tubing for S+S coupler integration.

COMPONENT SPECIFICATIONS

Fork	Co-Motion Cro-Moly ATB tandem	QR Skewers	Salsa
Headset	RaceFace Thermo threadless	Handlebars	Deda Piegia 42, 44, 46 or Profile Stoker
Bottom Brackets	RaceFace SRX ISIS	Captain Stem	Ritchey Pro 8-13cm
Crankset	RaceFace tandem	Stoker Stem	Co-Motion telescoping adjustable
Chainrings	54-44-32	Seatposts	Kalloy Seraph Microadjust 29.8mm
Brakes	Avid Single Digit 7	Saddles	Co-Motion D2 men's and women's
Brake Levers	Shimano Ultegra STI Flite Deck	Paint	Select from 30 PPG Global system metallic and opaque colors or upgrade to 15 House of Kolor pearlescent colors.
Front Derailleur	Shimano Ultegra triple	Total Bike Weight	36.2 pounds. Co-Pilot option adds approximately 2 pounds.
Rear Derailleur	Shimano XTR 9sp	Optional Equipment:	Co-Motion max-adjustable stoker stem. Chris King headset. RockShox suspension seatpost. Arai drum brake with QR kit. Bar-end shifters and 287-V brake levers in lieu of STI. Avid mechanical disk brake. Touring package. Offroad Kit: Raceface ATB capt. and Profile Stoker handlebars, Avid Speed Dial 2.0L brake levers, Shimano Rapidfire shifters, Ritchey Excavader 26x2.1
Cassette	XT 11-34 9sp	Mocha Road Co-Pilot Travel Features:	Cable splitters for rear brake and shifter cables, one-key release for left front crankarm.
Shifters	Shimano Ultegra STI Flite Deck		
Chain	Shimano CN-HG93		
Pedals	none		
Hubs	DT Hugi Symmetric 36h or 40h		
Spokes	DT 14 gauge		
Rims	Velocity Deep V ATB black		
Tires	Panaracer Hi-Road 26x1.5"		

PERISCOPE/PERISCOPE CO-PILOT

FRAME SIZE	HEAD ANGLE	SEAT ANGLE FRONT	SEAT ANGLE REAR	TOP TUBE FRONT	TOP TUBE REAR	BOTTOM BRACKET HEIGHT	STANDOVER FRONT	STANDOVER REAR
18/11 short	71.5°	73°	73°	20.5"	27.5"	10.625"	26.7"	19.8"
18/11 long	71.5°	73°	73°	22.5"	27.5"	10.625"	26.7"	19.8"

PeriScope Frame Material: Co-Motion designed zonally-buttet tandem tubing.

PeriScope Co-Pilot Frame Material: Co-Motion designed zonally-buttet tandem tubing for S+S coupler integration.

COMPONENT SPECIFICATIONS

Fork	Co-Motion oversized taper-gauge Cro-Moly, with Co-Motion CNC steerer	Tires	Panaracer Hi-Road 26x1.5"
Headset	RaceFace threadless	QR Skewers	Salsa
Bottom Brackets	Full Speed Ahead Platinum ISIS	Handlebars	Deda Piegia 42, 44, 46 or Profile Stoker
Crankset	Full Speed Ahead Gosamer	Captain Stem	Co-Motion Max-adjust
Chainrings	53-42-30	Stoker Stem	Co-Motion Max-adjust
Brakes	Avid Single Digit 5	Seatposts	Telescoping system w/QR collars, Kalloy Seraph 29.8mm top post
Brake Levers	Shimano 105 STI Flite Deck	Saddles	Co-Motion D2 men's and women's
Front Derailleur	Shimano Ultegra triple	Paint	Select from 30 PPG Global system metallic and opaque colors or upgrade to 15 House of Kolor pearlescent colors.
Rear Derailleur	Shimano XT 9sp	Total Bike Weight	37.5 pounds. Co-Pilot option adds approximately 1.5 pounds. (PeriScope requires only 4 couplers)
Cassette	LX 11-32 9sp	PeriScope Optional Equipment:	Chris King headset. RockShox suspension seatpost. Arai drum brake with QR kit. Shimano Ultegra crankset package. Bar-end shifters and 287-V levers in lieu of STI. Avid mechanical disk brake. Touring package.
Shifters	Shimano 105 STI Flite Deck	PeriScope Co-Pilot Travel Features:	Cable splitters for rear brake and shifter cables, one-key release for left front crankarm.
Chain	Shimano CN-HG93		
Pedals	none		
Hubs	Hugi Symmetric 36h, 40h or 48h		
Spokes	DT 14 gauge		
Rims	Velocity Deep V ATB black		

Frame sizes are measured from center of bottom bracket to top of seat tube collar. Standover heights are measured at mid top tube.

Top tube lengths are measured on effective horizontal. Rear axle length is 145mm on all tandem models. Seatpost diameter is 29.8mm on all tandem models.



2004 TANDEM

SPEEDSTER/SPEEDSTER CO-PILOT

FRAME SIZE	HEAD ANGLE	SEAT ANGLE FRONT	SEAT ANGLE REAR	TOP TUBE FRONT	TOP TUBE REAR	BOTTOM BRACKET HEIGHT	STANDOVER FRONT	STANDOVER REAR
21/18	73°	73°	73°	21.75"	28.50"	10.5"	30.25"	27.35"
22/19	73°	73°	73°	22.5"	28.50"	10.5"	30.85"	28.35"
23/20	73°	73°	73°	23.25"	28.50"	10.5"	31.75"	29.25"
23/18	73°	73°	73°	23.25"	28.50"	10.5"	31.10"	27.10"

Speedster Frame Material: Co-Motion designed zonally-buttet air-hardening steel tandem tubing.

Speedster Co-Pilot Frame Material: Co-Motion designed zonally-buttet heat-treated tandem tubing for S+S coupler integration.

COMPONENT SPECIFICATIONS

Fork	Co-Motion taper-gauge Cro-Moly w/Co-Motion CNC tandem steerer	Tires	Continental Ultra Gatorskin 700x28c
Headset	RaceFace Thermo threadless	QR Skewers	Salsa
Bottom Brackets	RaceFace SRX ISIS	Handlebars	Deda Piega 42, 44, 46 or Profile Stoker
Crankset	RaceFace tandem	Captain Stem	Ritchey Pro 8-13cm
Chainrings	54-44-32	Stoker Stem	Co-Motion telescoping adjustable
Brakes	Avid Single Digit 7	Seatposts	Kalloy Seraph Microadjust 29.8mm
Brake Levers	Shimano Ultegra STI Flite Deck	Saddles	Co-Motion D2 men's and women's
Front Derailleur	Shimano Ultegra triple	Paint	Select from 30 PPG Global system metallic and opaque colors or upgrade to 15 House of Kolor pearlescent colors.
Rear Derailleur	Shimano XTR 9sp	Total Bike Weight	35.8 pounds. Co-Pilot option adds approximately 2 pounds.
Cassette	XT 11-34 9sp	Optional Equipment:	Co-Motion max-adjustable stoker stem. Co-Motion/WoundUp carbon tandem fork. Chris King headset. RockShox suspension seatpost. Arai drum brake with QR kit. Shimano Ultegra tandem crankset package. Bar-end shifters and 287-V brake levers in lieu of STI. Avid mechanical disk brake. Touring package.
Shifters	Shimano Ultegra STI Flite Deck	Speedster Co-Pilot Travel Features:	Cable splitters for rear brake and shifter cables, one-key release for left front crankarm.
Chain	Shimano CN-HG93		
Pedals	none		
Hubs	DT Hugi Symmetric 36h, 40h or 48h		
Spokes	DT 14 gauge		
Rims	Velocity Dyad		

CAPPUCCINO/CAPPUCCINO CO-PILOT

FRAME SIZE	HEAD ANGLE	SEAT ANGLE FRONT	SEAT ANGLE REAR	TOP TUBE FRONT	TOP TUBE REAR	BOTTOM BRACKET HEIGHT	STANDOVER FRONT	STANDOVER REAR
21/18	73°	73°	73°	21.75"	28.50"	10.5"	30.25"	30.3"
22/19	73°	73°	73°	22.5"	28.50"	10.5"	30.85"	31.0"
23/20	73°	73°	73°	23.25"	28.50"	10.5"	31.75"	31.5"
23/18	73°	73°	73°	23.25"	28.50"	10.5"	31.10"	30.3"

Cappuccino Frame Material: Co-Motion designed zonally-buttet air-hardening steel tandem tubing.

Cappuccino Co-Pilot Frame Material: Co-Motion designed zonally-buttet heat-treated tandem tubing for S+S coupler integration.

COMPONENT SPECIFICATIONS

Fork	Co-Motion taper-gauge Cro-Moly w/Co-Motion CNC tandem steerer	Tires	Continental Ultra Gatorskin 700x28c
Headset	RaceFace Thermo threadless	QR Skewers	Salsa
Bottom Brackets	RaceFace SRX ISIS	Handlebars	Deda Piega 42, 44, 46 or Profile Stoker
Crankset	RaceFace tandem	Captain Stem	Ritchey Pro 8-13cm
Chainrings	54-44-32	Stoker Stem	Co-Motion telescoping adjustable
Brakes	Avid Single Digit 7	Seatposts	Kalloy Seraph Microadjust 29.8mm, stoker Softride beam
Brake Levers	Shimano Ultegra STI Flite Deck	Saddles	Co-Motion D2 men's and women's
Front Derailleur	Shimano Ultegra triple	Paint	Select from 30 PPG Global system metallic and opaque colors or upgrade to 15 House of Kolor pearlescent colors.
Rear Derailleur	Shimano XTR 9sp	Total Bike Weight	37.8 pounds. Co-Pilot option adds approximately 2 pounds.
Cassette	XT 11-34 9sp	Optional Equipment:	Co-Motion max-adjustable stoker stem. Co-Motion/WoundUp carbon tandem fork. Chris King headset. Arai drum brake with QR kit. Shimano Ultegra tandem crankset package. Bar-end shifters and 287-V brake levers in lieu of STI. Avid mechanical disk brake. Touring package.
Shifters	Shimano Ultegra STI Flite Deck	Cappuccino Co-Pilot Travel Features:	Cable splitters for rear brake and shifter cables, one-key release for left front crankarm.
Chain	Shimano CN-HG93		
Pedals	none		
Hubs	DT Hugi Symmetric 36h, 40h or 48h		
Spokes	DT 14 gauge		
Rims	Velocity Dyad		

AL CAPP

FRAME SIZE	HEAD ANGLE	SEAT ANGLE FRONT	SEAT ANGLE REAR	TOP TUBE FRONT	TOP TUBE REAR	BOTTOM BRACKET HEIGHT	STANDOVER FRONT	STANDOVER REAR
21/18	73°	73°	73°	21.75"	28.50"	10.5"	30.25"	30.3"
22/19	73°	73°	73°	22.5"	28.50"	10.5"	30.85"	31.0"
23/20	73°	73°	73°	23.25"	28.50"	10.5"	31.75"	31.5"
23/18	73°	73°	73°	23.25"	28.50"	10.5"	31.10"	30.3"

AL Capp Frame Material: Co-Motion Select Easton 7005 Aluminum zonally-buttet tandem tubing.

COMPONENT SPECIFICATIONS

Fork	Co-Motion taper-gauge Cro-Moly w/Co-Motion CNC tandem steerer	Rims	Velocity Dyad
Headset	RaceFace Thermo threadless	Tires	Continental Ultra Gatorskin 700x28c
Bottom Brackets	RaceFace SRX ISIS	QR Skewers	Salsa
Crankset	RaceFace tandem	Handlebars	Deda Piega 42, 44, 46 or Profile Stoker
Chainrings	54-44-32	Captain Stem	Ritchey Pro 8-13cm
Brakes	Avid Single Digit 7	Stoker Stem	Co-Motion telescoping adjustable
Brake Levers	Shimano Ultegra STI Flite Deck	Seatposts	Kalloy Seraph Microadjust 29.8mm, stoker Softride beam
Front Derailleur	Shimano Ultegra triple	Saddles	Co-Motion D2 men's and women's
Rear Derailleur	Shimano XTR 9sp	Paint	Select from 30 PPG Global system metallic and opaque colors or upgrade to 15 House of Kolor pearlescent colors.
Cassette	XT 11-34 9sp	Total Bike Weight	35.7 pounds
Shifters	Shimano Ultegra STI Flite Deck	Optional Equipment:	Co-Motion max-adjustable stoker stem. Co-Motion/WoundUp carbon tandem fork. Chris King headset. Arai drum brake with QR kit. Bar-end shifters and 287-V brake levers in lieu of STI. Avid mechanical disk brake. Touring package.
Chain	Shimano CN-HG93		
Pedals	none		
Hubs	DT Hugi Symmetric 36h, 40h or 48h		
Spokes	DT 14 gauge		

SPECIFICATIONS

ROADSTER

FRAME SIZE	HEAD ANGLE	SEAT ANGLE FRONT	SEAT ANGLE REAR	TOP TUBE FRONT	TOP TUBE REAR	BOTTOM BRACKET HEIGHT	STANDOVER FRONT	STANDOVER REAR
21/18	73°	73°	73°	21.75"	28.50"	10.5"	30.25"	27.35"
22/19	73°	73°	73°	22.5"	28.50"	10.5"	30.85"	28.35"
23/20	73°	73°	73°	23.25"	28.50"	10.5"	31.75"	29.25"
23/18	73°	73°	73°	23.25"	28.50"	10.5"	31.10"	27.10"

Roadster Frame Material: Co-Motion Select Easton 7005 Aluminum zonally-butted tandem tubing.

COMPONENT SPECIFICATIONS

Fork	Co-Motion taper-gauge Cro-Moly w/Co-Motion CNC tandem steerer	Rims	Velocity Dyad
Headset	RaceFace Thermo threadless	Tires	Continental Ultra Gatorskin 700x28c
Bottom Brackets	RaceFace SRX ISIS	QR Skewers	Salsa
Crankset	RaceFace tandem	Handlebars	Deda Piegia 42, 44, 46 or Profile Stoker
Chainrings	54-44-32	Captain Stem	Ritchey Pro 8-13cm
Brakes	Avid Single Digit 7	Stoker Stem	Co-Motion telescoping adjustable
Brake Levers	Shimano Ultegra STI Flite Deck	Seatposts	Kalloy Seraph Microadjust 29.8mm
Front Derailleur	Shimano Ultegra triple	Saddles	Co-Motion D2 men's and women's
Rear Derailleur	Shimano XTR 9sp	Paint	Select from 30 PPG Global system metallic and opaque colors or upgrade to 15 House of Kolor pearlescent colors.
Cassette	XT 11-34 9sp	Total Bike Weight	34.6 pounds
Shifters	Shimano Ultegra STI Flite Deck	Optional Equipment:	Co-Motion max-adjustable stoker stem. Co-Motion/WoundUp carbon tandem fork. Chris King headset. RockShox suspension seatpost. Arai drum brake with QR kit. Bar-end shifters and 287-V brake levers in lieu of STI. Avid mechanical disk brake. Touring package.
Chain	Shimano CN-HG93		
Pedals	none		
Hubs	DT Hugi Symmetric 36h, 40h or 48h		
Spokes	DT 14 gauge		

SUPREMO/SUPREMO CO-PILOT

FRAME SIZE	HEAD ANGLE	SEAT ANGLE FRONT	SEAT ANGLE REAR	TOP TUBE FRONT	TOP TUBE REAR	BOTTOM BRACKET HEIGHT	STANDOVER FRONT	STANDOVER REAR
21/18	73°	73°	73°	21.75"	28.50"	10.5"	30.25"	27.35"
22/19	73°	73°	73°	22.5"	28.50"	10.5"	30.85"	28.35"
23/20	73°	73°	73°	23.25"	28.50"	10.5"	31.75"	29.25"
23/18	73°	73°	73°	23.25"	28.50"	10.5"	31.10"	27.10"

Supremo Frame Material: Co-Motion designed zonally-butted air-hardening steel tandem tubing.

Supremo Co-Pilot Frame Material: Co-Motion designed zonally-butted heat-treated tandem tubing for S+S coupler integration.

COMPONENT SPECIFICATIONS

Fork	Co-Motion WoundUp carbon tandem	Tires	Michelin Pro Race 700x25c
Headset	Chris King threadless	QR Skewers	Rolf Prima
Bottom Brackets	Full Speed Ahead Platinum Pro ISIS	Handlebars	Deda 250 42, 44, 46 or Profile Stoker
Crankset	Full Speed Ahead Carbon Pro Team Issue	Captain Stem	Ritchey WCS 8-13cm
Chainrings	54-42-30	Stoker Stem	Co-Motion telescoping adjustable
Brakes	Shimano Dura Ace	Seatposts	WoundUp Carbon 29.8mm
Brake Levers	Shimano Dura Ace STI Flite Deck	Saddles	Selle Italia Flite titanium men's and women's
Front Derailleur	Shimano Dura Ace triple	Paint	Select from 30 PPG Global system metallic and opaque colors or upgrade to 15 House of Kolor pearlescent colors.
Rear Derailleur	Shimano Dura Ace triple 9sp	Total Bike Weight	31.1 pounds. Co-Pilot option adds approximately 2 pounds.
Cassette	6500 12-27 9sp	Optional Equipment:	Co-Motion max-adjustable stoker stem. RockShox suspension seatpost. Avid mechanical disk brake. Campagnolo Record 10sp package.
Shifters	Shimano Dura Ace STI Flite Deck	Supremo Co-Pilot Travel Features:	Cable splitters for rear brake and shifter cables, one-key release for left front crankarm.
Chain	Shimano CN-HG93		
Pedals	none		
Wheelset	Rolf Prima Vigor Tandem		

ROBUSTA

FRAME SIZE	HEAD ANGLE	SEAT ANGLE FRONT	SEAT ANGLE REAR	TOP TUBE FRONT	TOP TUBE REAR	BOTTOM BRACKET HEIGHT	STANDOVER FRONT	STANDOVER REAR
21/18	73°	73°	73°	21.75"	28.50"	10.5"	30.25"	27.35"
22/19	73°	73°	73°	22.5"	28.50"	10.5"	30.85"	28.35"
23/20	73°	73°	73°	23.25"	28.50"	10.5"	31.75"	29.25"
23/18	73°	73°	73°	23.25"	28.50"	10.5"	31.10"	27.10"

Robusta Frame Material: Co-Motion Select Easton 7005 Aluminum zonally-butted tandem tubing.

COMPONENT SPECIFICATIONS

Fork	Co-Motion WoundUp carbon tandem	Wheelset	Rolf Prima Vigor Tandem
Headset	Chris King threadless	Tires	Michelin Pro Race 700x25c
Bottom Brackets	Full Speed Ahead Platinum Pro ISIS	QR Skewers	Rolf Prima
Crankset	Full Speed Ahead Carbon Pro Team Issue	Handlebars	Deda 250 42, 44, 46 or Profile Stoker
Chainrings	54-42-30	Captain Stem	Ritchey WCS 8-13cm
Brakes	Shimano Dura Ace	Stoker Stem	Co-Motion telescoping adjustable
Brake Levers	Shimano Dura Ace STI Flite Deck	Seatposts	WoundUp Carbon 29.8mm
Front Derailleur	Shimano Dura Ace triple	Saddles	Selle Italia Flite titanium men's and women's
Rear Derailleur	Shimano Dura Ace triple 9sp	Paint	Select from 30 PPG Global system metallic and opaque colors or upgrade to 15 House of Kolor pearlescent colors.
Cassette	6500 12-27 9sp	Total Bike Weight	29.4 pounds
Shifters	Shimano Dura Ace STI Flite Deck	Optional Equipment:	Co-Motion max-adjustable stoker stem. RockShox suspension seatpost. Avid mechanical disk brake. Campagnolo Record 10sp package.
Chain	Shimano CN-HG93		
Pedals	none		

Frame sizes are measured from center of bottom bracket to top of seat tube collar. Standover heights are measured at mid top tube.

Top tube lengths are measured on effective horizontal. Rear axle length is 145mm on all tandem models. Seatpost diameter is 29.8mm on all tandem models.

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2004 SINGLE SPECIFICATIONS

AMERICANO/AMERICANO CO-PILOT

FRAME SIZE	TOP TUBE LENGTH	HEAD ANGLE	SEAT ANGLE	CHAINSTAY LENGTH	BOTTOM BRACKET HEIGHT	SEATPOST DIAMETER	STANDOVER HEIGHT
46cm	51.0cm	72°	75°	45.0cm	27.0cm	29.8mm	28.4"
48cm	52.0cm	72°	74.5°	45.0cm	27.0cm	29.8mm	29.0"
50cm	52.5cm	72.5°	74.5°	45.0cm	27.0cm	29.8mm	29.6"
52cm	53.0cm	72.5°	74°	45.0cm	27.0cm	29.8mm	30.2"
54cm	53.5cm	72.5°	74°	45.0cm	27.0cm	29.8mm	30.8"
55cm	54.0cm	72.5°	74°	45.0cm	27.0cm	29.8mm	31.2"
56cm	54.5cm	72.5°	73.5°	45.0cm	27.0cm	29.8mm	31.5"
57cm	55.5cm	72.5°	73.5°	45.0cm	27.0cm	29.8mm	31.8"
58cm	56.5cm	72.5°	73°	45.0cm	27.0cm	29.8mm	32.1"
59cm	57.0cm	72.5°	73°	45.0cm	27.0cm	29.8mm	32.4"
60cm	58.0cm	72.5°	73°	45.0cm	27.0cm	29.8mm	32.8"
62cm	58.5cm	72.5°	72.5°	45.0cm	27.0cm	29.8mm	33.3"

Americano Frame Material: Exclusive custom-drawn heat-treated Co-Motion tandem tubing. Frame Weight: 4.0 pounds.Americano frame uses a 145mm rear axle.

Americano Co-Pilot Frame Material: Co-Motion designed double-buttet heat-treated Cro-Moly tubing for S+S coupler integration. Co-Pilot option adds 8 ounces.

ESPRESSO/ESPRESSO CO-PILOT

FRAME SIZE	TOP TUBE LENGTH	HEAD ANGLE	SEAT ANGLE	CHAINSTAY LENGTH	BOTTOM BRACKET HEIGHT	SEATPOST DIAMETER	STANDOVER HEIGHT
48cm	52.5cm	72.5°	74.5°	41.0cm	26.5cm	27.2mm	28.5"
50cm	53.5cm	73°	74°	41.2cm	26.5cm	27.2mm	29.1"
52cm	54.0cm	73°	74°	41.2cm	26.5cm	27.2mm	29.6"
53cm	54.3cm	73°	74°	41.2cm	26.5cm	27.2mm	29.9"
54cm	54.5cm	73°	73.5°	41.2cm	26.5cm	27.2mm	30.2"
55cm	55.5cm	73.5°	73.5°	41.2cm	26.5cm	27.2mm	30.4"
56cm	56.5cm	73.5°	73°	41.2cm	26.5cm	27.2mm	30.7"
57cm	57.5cm	73.5°	73°	41.2cm	26.5cm	27.2mm	31.2"
58cm	58.0cm	74°	73°	41.2cm	26.7cm	27.2mm	31.6"
59cm	59.0cm	74°	73°	41.2cm	26.7cm	27.2mm	31.9"
60cm	59.5cm	74°	72.5°	41.6cm	26.7cm	27.2mm	32.3"
61cm	59.7cm	74°	72.5°	41.6cm	26.7cm	27.2mm	32.6"
62cm	60.0cm	74°	72.5°	41.6cm	27.0cm	27.2mm	33.1"
63cm	60.5cm	74°	72.5°	41.6cm	27.0cm	27.2mm	33.5"
64cm	61.0cm	74°	72.5°	41.6cm	27.0cm	27.2mm	33.9"

Espresso Frame Material: Reynolds 853 air-hardening tubing. Frame Weight: 3.6 pounds.

Espresso Co-Pilot Frame Material: Co-Motion designed double-buttet heat-treated Cro-Moly tubing for S+S coupler integration. Co-Pilot option adds 8 ounces.

NOR'WESTER, ESPRESSO AND RISTRETTO COMPONENT KITS

We offer component kits from Shimano and Campagnolo. Kit price quotations are based on WheelSmith-built kit wheels with Mavic Open Pro rims, or wheel systems from Rolf Prima and Velomax, Michelin Pro Race tires, appropriate kit seatpost, Deda handlebar, Ritchey stem, Flite saddle. Many other options are available. Please call for pricing and details.

AMERICANO KIT	
Fork	Co-Motion taper-gauge Cro-Moly, with Co-Motion CNC tandem steerer
Headset	Chris King Threadless
Bottom Bracket	Full Speed Ahead Platinum ISIS
Crankset	RaceFace Turbine LP 110/74 BCD
Chainrings	46-34-24
Brakes	Avid Single Digit 7
Brake Levers	Dia Comp 287-V
Front Derailleur	Ultegra 6500 triple
Rear Derailleur	Shimano XTR 9sp
Cassette	XT 11-34 9sp
Shifters	Shimano DuraAce 9sp bar end
Chain	Shimano CN-HG93
Pedals	none
Hubs	DT Hugi symmetric 36h, 40h or 48h
Spokes	DT 14 gauge
Rims	Velocity Dyad
Tires	Continental Top Touring 700x37
QR Skewers	Salsa
Handlebar	Deda 250; 42, 44, or 46
Seatpost	Kalloy Seraph Microadjust 29.8mm
Saddle	Co-Motion D2 men's or women's
Stem	Ritchey Pro 8-13cm
Options	Shimano Ultegra STI dual control levers. RockShox suspension seatpost. Tubus Cargo rear rack. Tubus Tara front lowrider rack.

NOR'WESTER TOURING KIT	
Fork	Co-Motion taper-gauge Cro-Moly, with Co-Motion CNC tandem steerer
Headset	Chris King Threadless
Bottom Bracket	Full Speed Ahead Platinum ISIS
Crankset	RaceFace Turbine LP 110/74 BCD
Chainrings	46-34-24
Brakes	Avid Shorty 6 Cantilever
Brake Levers	Dia Comp 287-V
Front Derailleur	Ultegra 6500 triple
Rear Derailleur	Shimano XTR 9sp
Cassette	XT 11-34 9sp
Shifters	Shimano DuraAce 9sp bar end
Chain	Shimano CN-HG93
Pedals	none
Hubs	DT Swiss Onyx 36h
Spokes	DT 14 gauge
Rims	Velocity Dyad
Tires	Continental Top Touring 700x32
QR Skewers	Salsa
Handlebar	Deda 250; 42, 44, or 46
Seatpost	American Classic 27.2mm
Saddle	Co-Motion D2 men's or women's
Stem	Ritchey Pro 8-13cm
Options	Shimano Ultegra STI dual control levers. Shimano Ultegra long reach calipers. RockShox suspension seatpost. Tubus Cargo rear rack. Tubus Tara front lowrider rack.

ULTEGRA ROAD KIT FOR NOR'WESTER, ESPRESSO, RISTRETTO	
Headset	Chris King Threadless
Bottom Bracket	Ultegra Octalink double or triple
Crankset	Ultegra double or Ultegra triple
Chainrings	53/39 double or 52/42/30 triple
Brakes	Ultegra calipers
Brake Levers	Ultegra 6500 STI double or triple 9sp
Front Derailleur	Ultegra 6500 double or triple
Rear Derailleur	Ultegra 6500 double or triple
Cassette	Ultegra 12-25 or 12-27 9sp
Shifters	Ultegra 6500 STI double or triple 9sp
Chain	Shimano CN-HG93
Pedals	none
Wheelset	Velomax Circuit wheelset
Tires	Michelin Pro Race 700x23
QR Skewers	Velomax
Handlebar	Deda 250; 42, 44, or 46
Seatpost	American Classic 27.2mm
Saddle	Selle Italia Flite Ti
Stem	Ritchey Pro 8-13cm

Frame sizes are measured from center of bottom bracket to top of seat tube collar. All Co-Motion singles are built with oversized headtubes for 1-1/8" threadless steerers. All frames handcrafted in Eugene, Oregon.

NOR'WESTER/NOR'WESTER CO-PILOT

FRAME SIZE	TOP TUBE LENGTH	HEAD ANGLE	SEAT ANGLE	CHAINSTAY LENGTH	BOTTOM BRACKET HEIGHT	SEATPOST DIAMETER	STANDOVER HEIGHT
46cm	51.0cm	72°	75°	43.2cm	26.5cm	27.2mm	28.2"
48cm	52.0cm	72°	74.5°	43.2cm	26.5cm	27.2mm	28.8"
50cm	52.5cm	72.5°	74.5°	43.2cm	26.5cm	27.2mm	29.4"
52cm	53.0cm	72.5°	74°	43.2cm	26.5cm	27.2mm	30.0"
54cm	53.5cm	72.5°	74°	43.2cm	26.5cm	27.2mm	30.4"
55cm	54.0cm	72.5°	74°	43.2cm	26.5cm	27.2mm	30.8"
56cm	54.5cm	72.5°	73.5°	43.2cm	26.5cm	27.2mm	31.2"
57cm	55.5cm	72.5°	73.5°	43.2cm	26.5cm	27.2mm	31.5"
58cm	56.5cm	72.5°	73°	43.2cm	26.5cm	27.2mm	31.8"
59cm	57.0cm	72.5°	73°	43.2cm	26.5cm	27.2mm	32.1"
60cm	58.0cm	72.5°	73°	43.2cm	26.5cm	27.2mm	32.4"
62cm	58.5cm	72.5°	72.5°	43.2cm	26.5cm	27.2mm	32.8"

Nor'Wester Frame Material: Reynolds 853 air-hardening tubing. Frame Weight: 3.85 pounds.

Nor'Wester Co-Pilot Frame Material: Co-Motion designed double-buttet heat-treated Cro-Moly tubing for S+S coupler integration. Co-Pilot option adds 8 ounces.

RISTRETTO

FRAME SIZE	TOP TUBE LENGTH	HEAD ANGLE	SEAT ANGLE	CHAINSTAY LENGTH	BOTTOM BRACKET HEIGHT	SEATPOST DIAMETER	STANDOVER HEIGHT
48cm	52.5cm	72.5°	74.5°	41.2cm	26.5cm	27.2mm	28.8"
50cm	53.5cm	73°	74°	41.4cm	26.5cm	27.2mm	29.3"
52cm	54.0cm	73°	74°	41.4cm	26.5cm	27.2mm	29.9"
53cm	54.3cm	73°	74°	41.4cm	26.5cm	27.2mm	30.2"
54cm	54.5cm	73°	73.5°	41.4cm	26.5cm	27.2mm	30.5"
55cm	55.5cm	73.5°	73.5°	41.4cm	26.5cm	27.2mm	30.7"
56cm	56.5cm	73.5°	73°	41.4cm	26.5cm	27.2mm	31.0"
57cm	57.5cm	73.5°	73°	41.4cm	26.5cm	27.2mm	31.4"
58cm	58.0cm	74°	73°	41.4cm	26.7cm	27.2mm	31.9"
59cm	59.0cm	74°	73°	41.4cm	26.7cm	27.2mm	32.2"
60cm	59.5cm	74°	72.5°	41.8cm	26.7cm	27.2mm	32.6"
61cm	59.7cm	74°	72.5°	41.8cm	26.7cm	27.2mm	32.9"
62cm	60.0cm	74°	72.5°	41.8cm	27.0cm	27.2mm	33.4"
63cm	60.5cm	74°	72.5°	41.8cm	27.0cm	27.2mm	33.8"
64cm	61.0cm	74°	72.5°	41.8cm	27.0cm	27.2mm	34.2"

Ristretto Frame Material: Easton Ultrailight 7005 double-buttet aluminum. Frame weight: 2.6 lbs.

CO-MOTION TT

FRAME SIZE	TOP TUBE LENGTH	HEAD ANGLE	SEAT ANGLE	CHAINSTAY LENGTH	BOTTOM BRACKET HEIGHT	SEATPOST DIAMETER	STANDOVER HEIGHT
53cm S	51.0cm	72.5°	75°	39-40.5cm	26.2cm	27.2mm	28.7"
56cm M	53.0cm	72.5°	75°	39-40.5cm	26.2cm	27.2mm	29.9"
59cm L	55.0cm	72.5°	75°	39-40.5cm	26.2cm	27.2mm	31.15"

TT Frame Material: Aero-profiled butted 7005 Aluminum. Frame weight: 2.6 lbs.