

# 2000 TOURING BIKE BUYER'S GUIDE

Buying a touring bike?  
We have a few hints.



The Burley Duet Softride tandem.

If you want to buy a touring bike for the New Millennium, or simply want to upgrade from whatever you're riding now, you can get a terrific bike for a fairly reasonable price.

That's the good news.

The bad news is that, as usual, there's not much selection, and not all bike shops know how to be helpful.

Then there's other good news: Suppose you want something untraditional in your touring bike — a fully suspended Moulton, a recumbent, a tandem to take your life partner along, a mountain bike for the Great Divide Route, a high-performance folder like a Birdie or a full-size collapsible bike with S&S Couplers. If that's what you want, the

inventiveness in the bike business has never served you better.

We can't do justice to all these "untraditional" options in this short article, but I wanted to mention these other options up front, because if you feel gnawing dissatisfaction

with the traditional route, be reassured that we enthusiastically endorse these other steeds.

The bike business in general is expecting hard times, and this affects what you see offered in touring bikes. Sales across the board are down about 10 percent, as Americans spend more leisure time on their sofas and computer chairs. Thus there's more pressure on bike companies to operate

efficiently in this not-so-upbeat market. That often means only one model of touring bike per company.

Nevertheless, here are some questions to ask yourself as you look at your choices:

## ■ Do I want dropped handlebars?

Dropped handlebars are still the choice for aerodynamics, and even the semi-upright posture of a touring cyclist gains a hefty aerodynamic advantage from dropped bars and the narrower hand position they foster.

If you really prefer upright bars, and don't mind going a bit slower (especially into headwinds), you have the option of simply buying a mountain bike. Just make sure you get a bike with fender/rack eyelets for your gear. If you buy a suspension mountain bike, you can use suspension-friendly racks made by Old Man Mountain, or tow your luggage in a cargo trailer such as a BOB Yak or a Kool Stop. The trailer will fit just about any bike made, but if you opt for suspension-friendly racks, make sure your shop helps ensure that they get installed properly.

One of the advantages of buying a mountain bike is that most components today are designed for mountain bikes, so you have a broad choice for replacements and upgrades. Another advantage is that the frame will fit tires of every imaginable width, and the mountain bike's "26-inch" tires (we self-appointed experts like to refer to them by their bead seat diameter of 559 mm) come in widths and tread patterns for every conceivable use.

## ■ How much luggage will I carry?

The more stuff you carry on the bike itself, the more stout you want the bike and its components to be, and the lower the gearing you want. If you're credit card touring with ten or 15 pounds of stuff, almost any bike will carry the load fine. If you put your gear in a trailer, ditto.

But if you're packing for a longer trip, and you've got the tent and sleeping bag out, the weight will come with its own demands. I'll discuss the key points to watch for below.



PHOTO BY KATHY VERSLUYS

Dropped handlebars are still the choice for aerodynamic efficiency.

By John Schubert

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## Contacts

- **Bianchi USA Inc.**, 21371 Cabot Blvd., Hayward, CA 94545-1650; [www.bianchi.it](http://www.bianchi.it); (510) 264-1001
- **Bicycles by Haluzak**, 2166 Burbank Ave., Santa Rosa, CA 94507
- **Boulder Bikes**, PO Box 1400, Lyons, CO 80540; [www.boulderbikes.com](http://www.boulderbikes.com); (303) 823-5021
- **Bruce Gordon Cycles**, 613 Second St., Petaluma, CA 94952; [www.bgcycles.com](http://www.bgcycles.com); (707) 762-5601
- **Burley Design Cooperative**, 4080 Stewart Rd, Eugene, OR 97402-2378; [www.burley.com](http://www.burley.com); (800) 423-8445
- **Cannondale Corporation**, 16 Towbridge Rd, Bethel, CT 06801; [www.cannondale.com](http://www.cannondale.com); (800) 245-3872
- **Co-Motion Cycles**, 222 Polk St., Suite B, Eugene, OR 97402; [www.co-motion.com](http://www.co-motion.com); (541) 342-4583
- **Da Vinci Designs**, 2225 South Platte River Drive, Denver, CO 80233; [www.teamspirit.net](http://www.teamspirit.net); (800) 873-3214
- **Easy Racers Inc.**, 200 Airport Blvd., Freedom, CA 95019; [www.easyracers.com](http://www.easyracers.com)
- **Fuji America**, PO Box 60, 118 Bauer Dr., Oakland, NJ 07436; [www.fujibike.com](http://www.fujibike.com); (800) 631-8474
- **Green Gear Cycling (Bike Friday)**, 3364 West 11th Avenue, Eugene OR 97402; [www.greengear.com](http://www.greengear.com); (800) 777-0258
- **KHS Inc.**, 1264 East Walnut St., Carson, CA 90746-1320; [www.khsbicycles.com](http://www.khsbicycles.com); (310) 632-7173
- **Lightning Cycle Dynamics**, 312 Ninth St., Lompoc, CA 93436; [www.ihpva.org/lcd/](http://www.ihpva.org/lcd/); (805) 736-0700
- **Linear Manufacturing Inc.**, 32744 Kestrel Ave., Guttenberg, IA 52052; [www.bikeroute.com/linear](http://www.bikeroute.com/linear); (319) 252-1637
- **Litespeed Titanium Components**, PO Box 22666, 9308 Ooltewah Industrial, Chattanooga, TN 37422; [www.litespeed.com](http://www.litespeed.com); (423) 238-5530
- **Longbikes**, 8160 Blakeland Dr., Unit D, Littleton, CO 80215; [www.tandembike.com](http://www.tandembike.com); (877) 826-3367
- **Meridian Bicycle Works**, 550 S.W. Industrial Way, #23, Bend, OR 97702; [www.meridianbike.com](http://www.meridianbike.com); (541) 317-1522
- **Montague Corp.**, 432 Columbia St., Cambridge, MA 02140; [www.montagueco.com](http://www.montagueco.com); (800) 736-5348
- **Raleigh USA Bicycle Company**, 22710 72nd Ave. S., Kent, WA 98032-2490; [www.raleighusa.com](http://www.raleighusa.com); (800) 222-5527
- **Rans Co.**, 4600 Hwy. 183 Alternate, Hays, KS 67601; (785) 625-6346
- **ReBike Inc.**, 225 Byers Rd., Miamisburg, OH 45342; [www.rebike.com](http://www.rebike.com)
- **Rocky Mountain Bicycle Company**, 1322 Cliveden Ave., Delta, British Columbia, Canada V3M 6G4; [www.rocky-mountain.com](http://www.rocky-mountain.com); (800) 663-2512
- **Rodriguez Tandems**, 798 Auburn Way North, Auburn, WA 98002; [www.rodcycle.com](http://www.rodcycle.com)
- **Romic Cycle Company, Inc.**, 22806 Industry Lane, Tomball, TX 77375; (281) 351-9193
- **S & B Recumbent**, 1607 East 126th St., Compton, CA 90222; [home.pacbell.net/recumbent](http://home.pacbell.net/recumbent); (310) 762-2243
- **Softride Inc.**, 4208 Meridian, Suite #2, Bellingham, WA 98226; [www.softride.com](http://www.softride.com); (800) 557-6387
- **Terry Precision Cycling for Women Inc.**, 1704 Wayneport Road, Macedon, NY 14502; [www.terry-bicycles.com](http://www.terry-bicycles.com); (800) 289-8379
- **Trek Bicycle Corporation**, 801 W. Madison St., Waterloo, WI 53594; [www.trekbikes.com](http://www.trekbikes.com); (920) 478-2191
- **Waterford Precision Cycles**, 816 W. Bakke Ave., Waterford, WI 53185; [www.waterfordbikes.com](http://www.waterfordbikes.com); (414) 534-4190



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### ■ What frame dimensions do I want to be choosy about?

See the accompanying *Cycle Sense* article in this issue (pg. 37) for a thorough discussion of that very topic. Then come back to this spot.

### ■ What racks will I want to buy and install?

Our boilerplate advice holds: use front racks (low-mount are preferable but not essential) and load some of your heavier stuff in small front panniers. Distribute the rest of your stuff in the rear panniers and rear rack, and use a handlebar bag to hold no more than you would have in a light-weight purse.

The only exceptions to the boilerplate are for trailer-towing people and for ultralight credit card tourists. For example, I recently did an overnight trip packing my eight pounds of stuff in a rack trunk. The rack trunk had no discernible effect on the bike's handling. I could double that load and put it in rear panniers and I'd still expect reasonable handling. But if I'm car-

PHOTO BY KATHY VERSLUVS



The more stuff you carry, the more stout your bike should be, and the lower your gearing should be.

rying much more than that, I'd need the superior handling one gets by combining front and rear panniers.

### ■ How wide should my tires be?

This is a tough question, because it's one of personal preference. Most touring bikes have "700C" tires. These tires range in width from 700x20C on up to 700x45C, which is like a big mountain bike tire. Most road riders use 25C or 28C for unladen riding. (25C is supposed to be the same as one inch of width, but that varies.)

Many people do loaded touring on 28C tires, but the larger sizes such as 32C, 35C and 38C are my favorites. Reason: they're more reliable under load. The unsprung weight of your panniers is less likely to

## Get Thee To The Website!

As of April 1, there will be more — much more — information available on touring bikes, recumbents, folding bikes, and even city/commuter, triathlon, road/sport and cyclocross bikes (among others), on Adventure Cycling's website, at [www.adv-cycling.com](http://www.adv-cycling.com). No foolin'.

Thanks to our friends at Bike-alog, we gathered much more raw bike data than we could possibly print in *Adventure Cyclist*. Enter the website, where all of the data is available, including specs for custom touring frames from Independent Fabrications, Seven Cycles, Serotta, Ibis, Romac, Davidson, Aerolite, Ti Cycles, Rivendell Bicycle Works, Atlantis, Heron and Otis Guy.

And here's the best part — on the website, the data is searchable and sortable. Want to see all of the touring bikes in the \$500-\$750 price range? Or all of the silver bikes? They're just a click of the mouse away.

## ORDINARY PEOPLE DO EXTRAORDINARY THINGS ON THEIR RODRIGUEZ TANDEMS



### Congratulations Louie and Becky!

In 1995, Boeing engineer Louie LeGrand and school teacher Becky Anderson were married. Their only registry item? A Rodriguez tandem. Well, they got it! Their friends and family from all over the country called us to purchase things like, "the front hub", or "two water bottles, cages and the spokes please", or just "what can I buy for around \$50?"

The tandem registry was a success and culminated in a 7,280 mile trip around the perimeter of the United States in 1998.

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cause a pinch flat or rim damage with these larger tires. The rougher your trip, the wider your tires should be.

Often you'll hear people bemoan the vastly increased weight and rolling resistance of nice sturdy touring tires. Invariably, these speechmakers are exaggerating. The test data I've seen have shown that wider tires can deliver pretty good results where rolling resistance is concerned. Combine that with the better handling on uneven pavement and the confidence you get from the more reliable tires, and it's a winning package.

But if that's true, why doesn't everyone buy a bike that can accommodate the widest tires? Because most bikes aren't made for those tires. The wider the tire you want, the shorter your list of bikes to choose from. (If your tire choices dwindle down to "the widest possible," you'll almost undoubtedly be making a call to Bruce Gordon Cycles, home of the rare-but-awesome 700X45C tires and the frames that fit them.) At the other extreme, plenty of companies make bikes with touring gearing, skinny racing tires, and no clearance for wider tires. These bikes are optimized for sag-supported touring, and thus they've come to be known as "event" bikes.

My observation at the trade shows is that most brands of touring bike are equipped with 28C or 32C tires, and the frame will generally accommodate either one size larger tire or a set of fenders.

### ■ Steel or aluminum?

Either one is a good choice. Today's oversize aluminum frames have exceptional rigidity, and today's steel frames are more rigid than the ones of old. As a touring cyclist, you want your frame to have great torsional rigidity, so the weight from the panniers won't make the frame flex. This is so you don't write us a long letter complaining about steering shimmy.

We all suffer from decades-old anecdotal evidence, and most steering shimmy stories seem to stem from the Nixon years or before. Back then, touring bikes were made with slender one-inch top tubes, and those tubes did not give the frames sufficient torsional rigidity for some circumstances. Today, an all-important additional 1/8 inch has become standard on steel frames' top tubes, and this has made the problem less prevalent.

When big heavy riders ask me "What should I ride since I'm big and heavy," I suggest they look long and hard at the additional rigidity of oversize aluminum. All other riders can make this choice based on personal preference. Test ride and see what you like.

Here's a good test question for the sales-

man: "I'm a big heavy guy, so I'm worried about steering shimmy when I have heavy panniers on my bike. Which bike do you sell that has the best frame rigidity, so the panniers don't induce shimmy?" Watch the eyes roll when you ask that one!

### ■ What low gearing do I want?

On this topic, I regret that I must retreat into grouch mode. Bicycle product managers are stuck in a "Nobody ever got fired for buying IBM" rut, and in the case of touring gearing, their "IBM" is Shimano. Shimano does many things well, but meeting the needs of long-distance touring cyclists isn't one of them.

Here's the story: At the end of a long day, with your body drained of glucose, you might face a long steep climb. Or you might need to ride from the nearest general store to my house, which, thanks to Pennsylvania topography, has you heading up 0.3 mile of an 18-percent grade. For this kind of riding, you need really low gears — gears you'll hardly use in normal riding.

Reasonable people may differ as to what "really low gears" are. Most will say somewhere between 18 and 22 gear inches, with the more macho ones saying 25 gear inches. No one will say that a 32-inch gear is the hot ticket for that use. But 32 inches is what I saw on most touring bikes at the most recent trade show. These bikes come equipped with 30-tooth "granny" chainwheels and 25-tooth large cogs.

What this means is that if you buy one of these bikes new, you'll probably want to immediately buy some new components to replace the clueless factory spec job. The chainwheel can be replaced by one as small as 24 teeth (you can use brands other than Shimano — the 74mm bold circle is a widely-used standard). The rear sprocket cluster can be replaced too. A 27-tooth or 28-tooth cog will probably fit without any other modifications, giving you a 24-inch low gear. That's not ideal, but it's at least on the fringe of respectability. If you want a rear cog larger than that, you may be looking at the expense of a new rear derailleur too.

This is the kind of request that tests your bike shop. If you find a shop that's genuinely helpful with these requests, treat 'em nice. Pay cash and bring home-baked cookies to thank them for caring. If you're a low-gear purist, you'll have to either perform more expensive modifications or seek out a custom bike.

### ■ What high gearing do I want?

In the olden days, most bikes came equipped with top gears of 100 gear inches (52-tooth chainwheel, 14-tooth cog). This is plenty high enough for everyone but elite

racers and downhill crazies. Today's touring bikes often have high gears of 128 inches (52-tooth chainwheel, 11-tooth cog). I've ridden several such bikes, and the top few gears are just completely useless. When you downsize your low gear, downsize your high gear as well.

### ■ Factory or custom built?

Factories do a great job. Both the domestic companies (Trek, Cannondale) and the importers (Raleigh, Fuji, Bianchi, Jamis et al) have excellent quality control. But from the mail I get, I'd judge that most of you are spending at least twice the price of a factory bike to go with the small companies like Bruce Gordon, Independent Fabrications, Heron, Waterford, Bob Beckman, and many others.

These are the companies that are best equipped to deal with customer needs like odd frame sizes, requests for special gearing, and the like. They tend to take the touring customer more seriously and innovate more in touring designs than most of the larger companies. For your bigger bucks you also get finer components and old-world craftsmanship.

### ■ What problems won't I have?

If you're replacing an elderly bike, you'll be pleasantly surprised by advances in design and quality control. Whatever brand of bike you buy, the index shifting will be seamless, and surprisingly hard to screw up with abuse and mud. The wheels will be true and inclined to stay that way. The frame will be aligned, all parts will fit in place smoothly, and the paint will shine.

Above all else, don't forget why you're buying a bike. Sure it's a machine, with lots of cool components, and maybe a flaw or two to annoy you. But first and foremost, it's your companion on what I hope will be some exciting rides. I'm reminded of Adventure Cycling member Jean Coello, who on May 5 of this year will celebrate her 50th birthday by departing on a 10-week solo, self-contained cross-country tour.

Many of us have had adventures like Jean's. Many others will do so in the future. That's why we buy and fuss with these bikes — so that we can enjoy the adventure. To Jean, and all others who will follow her example this year: Have a heckuva good time. ●

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*Adventure Cycling member and technical editor John Schubert's main gig for Adventure Cyclist is his long-running Cycle Sense column.*

# TOURING BIKE BUYERS GUIDE

Bike	Bike Type	Frame Tubing	Component group	Shift Levers	Tires
<b>Bianchi San Remo</b>	Touring	Chromoly, double-buttet	Campagnolo Mirage Triple	Campagnolo Mirage Ergo	700 x 28c Vittoria Roma
<b>Bianchi Velope</b>	Touring	Reynolds 520	Shimano Tiagra Triple	Shimano Tiagra STIr	700 x 30c WTB All Terrainasaurus
<b>Boulder Bikes Tourstar</b>	Touring	TT chromoly, db	Touring Mix	Shimano 105 STI	n/a
<b>Boulder Bikes Tourstar Ti</b>	Touring	3Al/2.5V titanium	Touring Mix	Campagnolo Record Ergo	n/a
<b>Boulder Bikes Tourstar AL</b>	Touring	7005 aluminum, db	Touring Mix	Shimano Ultegra STI	n/a
<b>Bruce Gordon BLT</b>	Touring	Chromoly, butted	Shimano Deore LX	Shimano Dura-Ace bar-end	700 x 38c Avocet Cross
<b>Bruce Gordon Rock 'n Road Tour</b>	Touring	4130 chromoly	Shimano Deore XT	Shimano Dura-Ace bar-end	700 x 38c Avocet Cross
<b>B. Gordon Rock 'n Road Tour-EX</b>	Touring	4130 chromoly	Shimano Deore XT	Shimano Dura-Ace bar-end	26 x 1.50" Avocet Cross
<b>Cannondale Silk Tour 800</b>	Touring	6061 T6 aluminum	Touring Mix; Headshok 1" travel	Shimano Tiagra STI	700 x 35c Continental Top Touring
<b>Cannondale T2000</b>	Touring	6061 T6 aluminum	Touring Mix	Shimano Ultegra STI	700 x 35c Continental Top Touring
<b>Cannondale T800</b>	Touring	6061 T6 aluminum	Touring Mix	Shimano Tiagra STI	700 x 35c Continental Top Touring
<b>da Vinci Passport</b>	Touring	6061-T6 aluminum	Shimano Sora	Shimano Sora STI	700 x 28c Michelin Tracer
<b>da Vinci Destination</b>	Touring	6061-T6 aluminum	Shimano Tiagra	Shimano Tiagra STI	700 x 28c Michelin Tracer
<b>da Vinci Caribou</b>	Touring	6061-T6 aluminum	Shimano 105 Triple	Shimano 105 STI I	700 x 28c Michelin Tracer
<b>Fuji Touring</b>	Touring	T. Temper chromoly, db	Shimano Sora	Shimano Sora STI	700 x 30c Ritchey Tom Slick
<b>Litespeed Blue Ridge</b>	Touring	3Al/2.5V titanium	Shimano Ultegra Triple	Shimano Ultegra STI	700 x 30c IRC Touring
<b>Raleigh R-300</b>	Touring	7005 aluminum	Shimano Sora	Shimano Sora STI	700 x 32c Michelin Altika
<b>Rocky Mountain Metro</b>	Touring	Reynolds 520	Touring Mix	SRAM 7.0	700 x 40c Michelin Dynamis
<b>Rocky Mountain Whistler</b>	Touring	Reynolds 520	Shimano C-201	Shimano Revo	700 x 40c Michelin Dynamis
<b>Rocky Mountain Sherpa</b>	Touring	Reynolds 520	Mountain Mix	SRAM 7.0	26 x 1.90" Michelin Sprint
<b>Rocky Mountain Latitude</b>	Touring	Reynolds 520	Shimano Deore LX/XT	Shimano Deore LX	700 x 40c Michelin Dynamis
<b>Rocky Mountain Route 66</b>	Touring	Reynolds 520	Shimano Deore LX	Shimano Deore LX	26 x 1.90" Michelin Sprint
<b>Rodriguez Adventure</b>	Touring	Chromoly, double-buttet	Campagnolo Mirage Triple	Campagnolo Mirage Ergo	n/a
<b>Romic Eco 2000</b>	Touring	Reynolds 531	Shimano 105 Triple	Shimano 105 STI I	n/a
<b>Romic Eco 2000</b>	Touring	Reynolds 531	Campagnolo Mirage Triple	Campagnolo Mirage Ergo	n/a
<b>Romic Eco 2000</b>	Touring	Reynolds 531	Shimano 105 Triple	Shimano 105 STI	n/a
<b>Softride Solo</b>	Touring	6061 T6 aluminum	Shimano 105 Triple	Shimano 105 STI	700 x 23c Vredstein Ricorso
<b>Terry Classic</b>	Touring	Chromoly, double-buttet	Touring Mix	Deore XT RapidFire SL	n/a
<b>Trek 540</b>	Touring	Alpha SL aluminum	Touring Mix	Shimano Ultegra bar-end	700 x 32c Continental Top Touring
<b>Trek 520</b>	Touring	Chromoly, double-buttet	Touring Mix	Shimano Ultegra bar-end	700 x 32c Continental Top Touring
<b>Waterford RSE-11</b>	Touring	Reynolds 531	Shimano 105 Triple	Shimano 105 STI	700 x 23c Continental 2000

Crankset	Rear Cogs	Chainstay length	Brakeset	Rims	Sugg. Retail
Campagnolo Veloce, 30/42/52 teeth	9-speed, 13 - 26 teeth	n/a	Avid Shorty 15C brakes, Campagnolo Mirage levers	Mavic MA 3	n/a
Shimano Tiagra, 30/42/52 teeth	9-speed, 12 - 25 teeth	n/a	Shimano Tiagra Dual Pivot brakes, Tiagra STI levers	WTB SpeedMaster	n/a
Shimano Deore LX	n/a	46.0cm	n/a	n/a	2499.00
Sugino Mighty 900X	n/a	46.0cm	n/a	n/a	4899.00
Shimano Deore XT	n/a	46.0cm	n/a	n/a	3199.00
Shimano Deore LX, 22/32/44 teeth	9-speed, 11 - 32 teeth	45.0 cm	Shimano Deore LX cantilevers, Dia-Compe 287 levers	Sun Rims CR18	1445.00
Shimano Deore XT, 22/32/44 teeth	9-speed, 11 - Buyer's choice	45.0 cm	Shimano Deore XT cantilevers, Dia-Compe 287 levers	Sun Rims CR18	2430.00
Shimano Deore XT, 22/32/44 teeth	9-speed, 11 - Buyer's choice	45.0 cm	Shimano Deore XT cantilevers, Dia-Compe 287 levers	Sun Rims Rhyno Lite	2430.00
CODA Performance Road, 30/42/52	9-speed, 11 - 32 teeth	n/a	CODA 700M brakes, Shimano Tiagra STI levers	CODA Performance	1300.99
CODA Prodigy Road, 30/42/52 teeth	9-speed, 11 - 32 teeth	n/a	Shimano Deore XT cantilevers, Shimano Ultegra STI levers	Mavic T519	1409.99
CODA Performance Road, 30/42/52	9-speed, 11 - 32 teeth	n/a	CODA 700M brakes, Shimano Tiagra STI levers	CODA Performance	975.99
Shimano Sora, 30/42/52 teeth	8-speed, 11-30 teeth	18.0"	Avid Shorty 10C brakes, Shimano Sora STI levers	Mavic T221	650.00
Shimano Tiagra, 30/42/52 teeth	9-speed, 11 - 32 teeth	18.0"	Avid Shorty 10C brakes, Shimano Tiagra STI levers	Mavic T221	800.00
Shimano 105, 30/42/52 teeth	9-speed, 11 - 32 teeth	18.0"	Avid Shorty 10C brakes, Shimano 105 STI levers	Mavic T221	950.00
Shimano Sora, 30/42/52 teeth	8-speed, 12 - 28 teeth	17.3"	Avid Single Digit 1.0 brakes, Shimano Sora STI levers	Alex X-2100	699.99
Shimano Ultegra, 30/42/52 teeth	9-speed, Buyer's choice	42.5 cm	Shimano Deore XT V-Brake brakes, Ultegra STI levers	Mavic Open Pro	1425.00
Shimano Sora, 30/42/52 teeth	8-speed, 12 - 25 teeth	17.5"	Tektro linear-pull brakes, Shimano Sora STI levers	Weinmann Zac 19	599.99
Rocky Mountain, 22/32/42 teeth	8-speed, 11 - 30 teeth	44.5cm	SRAM ESP 5.0 brakes, SRAM ESP 5.0 levers	Sun Rims CR18	638.00
Shimano C-201, 28/38/48 teeth	8-speed, 11 - 34 teeth	44.5 cm	Shimano C201 V-Brake brakes, Shimano C201 Revo levers	Sun Rims CR18	466.00
Rocky Mountain, 22/32/42 teeth	8-speed, 11 - 30 teeth	44.5 cm	SRAM ESP 5.0 brakes, SRAM ESP 5.0 levers	Sun Rims CR18	523.00
Shimano Deore LX, 22/32/44 teeth	9-speed, 11 - 32 teeth	44.5 cm	Shimano Deore LX V-Brake brakes, Deore LX levers	Sun Rims CR18	981.00
Shimano Deore, 22/32/44 teeth	9-speed, 11 - 32 teeth	44.5 cm	Shimano Deore LX V-Brake brakes, Deore LX levers	Sun Rims CR18	785.00
Campagnolo Mirage	n/a	n/a	n/a	n/a	1299.99
Shimano 105 (Triple)	n/a	43.2 cm	n/a	n/a	1845.00
Campagnolo Mirage	n/a	43.2 cm	n/a	n/a	1798.00
Shimano 105 (Triple)	n/a	43.2 cm	n/a	n/a	1845.00
Shimano 105, 30/42/52 teeth	9-speed, 11 - 25 teeth	41.5 cm	Shimano 105 Dual Pivot brakes, Shimano 105 STI levers	Mavic Open Pro	1599.95
Shimano Ultegra	n/a	43.2 cm	Shimano Deore XT V-Brake brakes, Ultegra STI levers	Mavic Open Pro	2525.00
Shimano 105, 30/42/52 teeth	8-speed, 11 - 30 teeth	n/a	Avid Linear pull, 2.0 brakes, Dia-Compe 287 levers	Bontrager Fairlane	n/a
Shimano 105, 30/42/52 teeth	8-speed, 11 - 30 teeth	n/a	Avid Linear pull, 2.0 brakes, Dia-Compe 287 levers	Bontrager Fairlane	n/a
Shimano 105, 30/42/52 teeth	9-speed, Buyer's choice	43.0 cm	Shimano Deore LX V-Brake brakes, 105 STI levers	Mavic CXP 21	1899.00

# TOURING BIKE BUYERS GUIDE

Bike	Bike Type	Frame Tubing	Component group	Shift Levers	Tires
Waterford RSE-12	Touring	Reynolds 753	Shimano Ultegra Triple	Shimano Ultegra STI	700 x 23c Vredstein Fortezza
Waterford RSE-22	Touring	Reynolds 853	Shimano Ultegra Triple	Shimano Ultegra STI	700 x 23c Vredstein Fortezza
Waterford Diva	Touring	Reynolds 853	Shimano Ultegra Triple	Shimano Ultegra STI	700 x 25c Continental 3000 kevlar
Waterford Adventure Cycle	Touring	Reynolds 853	Shimano Ultegra Triple	Shimano Ultegra STI	700 x 30c IRC Touring
Waterford Adventure Cycle	Touring	Reynolds 853	Shimano 105 Triple	Shimano 105 STI	700 x 30c IRC Touring
Waterford Adventure Cycle	Touring	Reynolds 853	Shimano 105 Triple	Shimano Dura-Ace bar-end	7700 x 30c IRC Touring
Burley Duet	Tandem	TT Tandem chromoly	Tandem Mix	Shimano 105 STI	700 x 25c Ritchey Tom Slick
Burley Duet Softride	Tandem	TT Tandem chromoly	Tandem Mix	Shimano 105 STI	700 x 25c Ritchey Tom Slick
Burley Duet S&S	Tandem	TT Tandem chromoly	Tandem Mix	Shimano 105 STI	700 x 25c Ritchey Tom Slick
Burley Rumba	Tandem	TT Tandem chromoly	Tandem Mix	Shimano RSX STI	700 x 25c Ritchey Tom Slick
Burley Rumba Softride	Tandem	TT Tandem chromoly	Tandem Mix	Shimano RSX STI	700 x 25c Ritchey Tom Slick
Burley Rumba S&S	Tandem	TT Tandem chromoly	Tandem Mix	Shimano RSX STI	700 x 25c Ritchey Tom Slick
Burley Paso Doble	Tandem	TT OX Gold/OX2	Tandem Mix	Shimano Ultegra STI	700 x 25c Vredstein
Boulder Bikes Estes	Tandem	7005 aluminum, db	Tandem Mix	Shimano Ultegra STI	n/a
Boulder Bikes TSL 700	Tandem	7005 aluminum, db	Tandem Mix	Shimano Ultegra STI	n/a
Cannondale RT1000	Tandem	6061 T6 aluminum	Tandem Mix	Shimano 105 STI	n/a
Cannondale RT3000	Tandem	6061 T6 aluminum	Tandem Mix	Shimano Ultegra STI	n/a
Co-Motion Speedster	Tandem	Reynolds 525/725/631	Tandem Mix	Shimano bar-end	700 x 28c Avocet Fast Grip
da Vinci Joint AdVenture	Tandem	chromoly	Tandem Mix	SRAM 9.0	26 x 1.40" Ritchey Crossbite
da Vinci Joint Venture	Tandem	chromoly	Tandem Mix	Campagnolo Chorus Ergo	26 x 1.25" Panaracer Pasela
da Vinci Joint AdVenture	Tandem	Easton 7005 Elite	Tandem Mix	SRAM 9.0	26 x 1.40" Ritchey Crossbite
da Vinci Joint Venture	Tandem	Easton 7005 Elite	Tandem Mix	Campagnolo Chorus Ergo	26 x 1.25" Panaracer Pasela
da Vinci in-2-ition	Tandem	Chromoly	Tandem Mix	Shimano Ultegra bar-end	26 x 1.25" Panaracer Pasela
da Vinci in-2-ition	Tandem	Easton 7005 Elite	Tandem Mix	Shimano Ultegra bar-end	26 x 1.25" Panaracer Pasela
KHS Tandemania	Tandem	Chromoly	Tandem Mix	Shimano Ultegra STI	700 x 28c Panaracer Pasela
KHS Tandemania	Tandem	7005 aluminum	Tandem Mix	Shimano Ultegra STI	700 x 28c Panaracer Pasela
Litespeed Taliani	Tandem	3Al/2.5V titanium	Shimano Ultegra	Shimano Ultegra STI	700 x 30c IRC Tandem
Longbikes 100RS	Tandem	True Temper OX3	Tandem Mix	Shimano Bar-end	700 x 28c Continental Ultra 2000
Longbikes 300RS	Tandem	True Temper OX3	Tandem Mix	Shimano bar-end	700 x 28c Continental Ultra 2000
Longbikes 500RS	Tandem	Easton aluminum	Tandem Mix	Shimano bar-end	700 x 28c Continental Ultra 2000
Rodriguez Toucan	Tandem	Chromoly, db	Campagnolo Mirage Triple	Campagnolo Mirage Ergo	n/a
Boulder Bikes Galaxy	Recumbent	7005 aluminum	Recumbent Mix	SRAM Quartz	n/a
Easy Racers Tour Easy SS	Recumbent	Chromoly	Recumbent Mix	SRAM Centera	n/a
Easy Racers Tour Easy EX	Recumbent	Chromoly	Recumbent Mix	SRAM Centera	n/a
Easy Racers Titanium Rush	Recumbent	6061 T6 aluminum	Recumbent Mix	SRAM Rocket Half Pipe	n/a
Easy Racers Gold Rush EX	Recumbent	6061 T6 aluminum	Recumbent Mix	SRAM Plasma	n/a
Easy Racers Gold Rush SS	Recumbent	6061 T6 aluminum	Recumbent Mix	SRAM Plasma	n/a
Haluzak Hybrid Race	Recumbent	4130 chromoly	Recumbent Mix	Shimano Dura-Ace bar-end	n/a
Haluzak Leprechaun	Recumbent	4130 chromoly	Recumbent Mix	Shimano Dura-Ace bar-end	n/a
Haluzak Horizon	Recumbent	4130 chromoly	Recumbent Mix	Shimano Dura-Ace bar-end	n/a
Lightning Thunderbolt A-10	Recumbent	hi-tensile steel, oversize	Recumbent Mix	SRAM Centera	F: 20x1.25" City Jet, R: 26x1.25" Primo HP
Lightning Thunderbolt	Recumbent	hi-tensile steel, oversize	Recumbent Mix	SRAM MRX	F: 20x1.75 ACS Edge, R: 26x1.50 IRC Metro
Lightning Stealth	Recumbent	4130 chromoly	Recumbent Mix	SRAM Centera	F: 20x1.25 City Jet, R: 26x1.25 Primo HP

Crankset	Rear Cogs	Chainstay length	Brakeset	Rims	Sugg. Retail
Shimano Ultegra, 30/42/52 teeth	9-speed, Buyer's choice	43.0 cm	Shimano Deore XT V-Brake brakes, Ultegra STI levers	Mavic Open Pro	2525.00
Shimano Ultegra, 30/42/52 teeth	9-speed, Buyer's choice	43.0 cm	Shimano Deore XT V-Brake brakes, Ultegra STI levers	Mavic Open Pro	2625.00
Shimano Ultegra, 30/42/52 teeth	9-speed, Buyer's choice	43.0 cm	Shimano Deore XT V-Brake brakes, Ultegra STI levers	Mavic Open Pro	2625.00
Shimano Ultegra, 30/42/52 teeth	9-speed, Buyer's choice	44.5 cm	Shimano Deore XT cantilever brakes, Ultegra STI levers	Mavic T217	2599.00
Shimano 105, 30/42/52 teeth	9-speed, Buyer's choice	44.5 cm	Shimano Deore LX cantilever brakes, 105 STI levers	Mavic T217	2299.00
Shimano 105, 30/42/52 teeth	9-speed, Buyer's choice	44.5 cm	Shimano Deore LX cantilevers, Dia-Compe 188 TRI levers	Mavic T217	2250.00
Shimano 105, 30/42/53 teeth	9-speed, 11 - 30 teeth	n/a	Tektro 823A linear-pull brakes, Shimano 105 STI levers	Bontrager Fairlane	2250.00
Shimano 105, 30/42/53 teeth	9-speed, 11 - 30 teeth	n/a	Tektro 823A linear-pull brakes, Shimano 105 STI levers	Bontrager Fairlane	2499.00
Shimano 105, 30/42/53 teeth	9-speed, 11 - 30 teeth	n/a	Shimano Deore LX cantilevers brakes, 105 STI levers	Bontrager Fairlane	3299.00
3-piece aluminum, 28/42/52 teeth	7-speed, 11 - 28 teeth	n/a	Tektro 823A linear-pull brakes, Shimano RSX STI levers	Bontrager Fairlane	1699.00
3-piece aluminum, 28/42/52 teeth	7-speed, 11 - 28 teeth	n/a	Tektro 823A linear-pull brakes, Shimano RSX STI levers	Bontrager Fairlane	1999.00
3-piece aluminum, 28/42/52 teeth	7-speed, 11 - 28 teeth	n/a	Shimano Deore LX cantilever brakes, RSX STI levers	Bontrager Fairlane	2699.00
Shimano Ultegra, 30/42/53 teeth	9-speed, 11 - 30 teeth	n/a	Tektro 823A linear-pull brakes, Shimano Ultegra STI levers	Aluminum	3250.00
Sugino XD600 Tandem	n/a	17.0"	n/a	n/a	4999.00
Sugino XD600 Tandem	n/a	17.0"	n/a	n/a	5999.00
Shimano Tandem	n/a	17.4"	n/a	n/a	n/a
Shimano Ultegra	n/a	17.4"	n/a	n/a	n/a
Race Face Tandem, 32/44/54 teeth	9-speed, 11 - 32 teeth	n/a	Avid 1D-25 brakes, Dia-Compe 287-V levers	Velocity Diad	3250.00
da Vinci Direct Drive, 24/36/48/60	8-speed, 12 - 32 teeth	n/a	Avid 1D-25 brakes, Avid Ultimate levers	da Vinci V-22	4500.00
da Vinci Direct Drive, 24/36/48/60	8-speed, 11 - 28 teeth	n/a	Avid 1D-25 brakes, Campagnolo Chorus levers	da Vinci V-22	4500.00
da Vinci Direct Drive, 24/36/48/60	8-speed, 12 - 32 teeth	n/a	Avid 1D-25 brakes, Avid Ultimate levers	da Vinci V-22	5000.00
da Vinci Direct Drive, 24/36/48/60	8-speed, 11 - 28 teeth	n/a	Avid 1D-25 brakes, Campagnolo Chorus levers	da Vinci V-22	5000.00
Sugino Fuse 500 Tandem, 24/36/48/60	8-speed, 11 - 28 teeth	n/a	Avid 1D-25	Weinmann Zac 19	3500.00
Sugino Fuse 500 Tandem, 24/36/48/60	8-speed, 11 - 28 teeth	n/a	Avid 1D-25	Weinmann Zac 19	4000.00
Tracer, 30/42/53 teeth	8-speed, 11 - 30 teeth	n/a	Power Tools Linear Pull brakes, Shimano 105 STI levers	Sun Rims CR16 T2	n/a
Sugino Fuse 500 Tandem, 30/42/52	9-speed, 11 - 32 teeth	n/a	Shimano Deore LX V-Brake brakes, Ultegra STI levers	Sun Rims CR16 T2	2399.00
Shimano Ultegra	9-speed, Buyer's choice	45.0 cm	Shimano Deore XT V-Brake brakes, Ultegra STI levers	Mavic T217	7075.00
Shimano Tandem, 30/42/53 teeth	9-speed, 11 - 32 teeth	n/a	Avid 1D-10 brakes, Dia-Compe 287 levers	Sun Rims CR18	3299.00
Race Face Tandem, 28/42/54 teeth	9-speed, 11 - 32 teeth	n/a	Avid 1D-25 brakes, Dia-Compe 287 levers	Mavic T217	3799.00
Race Face Tandem, 28/42/54 teeth	9-speed, 11 - 32 teeth	n/a	Avid Arch Rival 50 brakes, Dia-Compe 287 levers	Mavic T217	4499.00
Rodriguez	n/a	n/a	n/a	n/a	2499.99
SRAM Quartz	n/a	n/a	n/a	n/a	3699.00
Sugino	n/a	n/a	n/a	n/a	1795.00
Sugino	n/a	n/a	n/a	n/a	1795.00
Shimano Ultegra	n/a	n/a	n/a	n/a	5000.00
Shimano Ultegra	n/a	n/a	n/a	n/a	2995.00
Shimano Ultegra	n/a	n/a	n/a	n/a	2995.00
Shimano Ultegra	n/a	n/a	n/a	n/a	1995.00
Shimano 105 (Triple)	n/a	n/a	n/a	n/a	1755.00
Shimano 105 (Triple)	n/a	n/a	n/a	n/a	1755.00
Cyclone alloy, 30/42/52 teeth	8-speed, 11 - 30 teeth	n/a	Tektro 825A linear-pull brakes, Tektro RBP-379A levers	aluminum	995.00
Dotek aluminum with chain guard, 28/38/48	7-speed, 11 - 30 teeth	n/a	Tektro linear-pull brakes, Tektro RBP-379A levers	aluminum	850.00
Cyclone alloy, 30/42/52 teeth	8-speed, 11 - 30 teeth	n/a	Tektro 825A linear-pull brakes, Tektro RBP-379A levers	aluminum	1295.00



# TOURING BIKE BUYERS GUIDE

Bike	Bike Type	Frame Tubing	Component group	Shift Levers	Tires
<b>Lightning Stealth 105</b>	Recumbent	4130 chromoly	Recumbent Mix	Shimano Dura-Ace bar-end	F: 20x1.25 City Jet, R: 26x1.25 Primo HP
<b>Lightning Daytona</b>	Recumbent	4130 chromoly	Campagnolo Daytona Triple	Campy Speed TH bar end	F: 20x1" Conti kevlar, R: 700x25c G. Prix kevlar
<b>Lightning R-84</b>	Recumbent	Carbon fiber composite	Campagnolo Daytona Triple	Campy Speed TH bar end	F: 20x1" Conti kevlar, R: 700x25c G. Prix kevlar
<b>Linear CLWB Mach III</b>	Recumbent	6061 T6 aluminum	Recumbent Mix	Sachs	F: 16x1 3/8" Primo HP, R: 20x1.35" Primo HP
<b>Longbikes Vanguard</b>	Recumbent	True Temper chromoly	Recumbent Mix	Shimano Dura-Ace bar-end	F: 20x1.50 Avocet Fast Grip, R: 26x1.75 Fast Grip
<b>Longbikes Slipstream</b>	Recumbent	True Temper chromoly	Recumbent Mix	Shimano Dura-Ace bar-end	F: 20x1.50 Avocet Fast Grip, R: 26x1.75 Fast Grip
<b>Longbikes Eliminator</b>	Recumbent	True Temper chromoly	Recumbent Mix	Shimano Dura-Ace bar-end	F: 20x1.50 Avocet Fast Grip, R: 26x1.75 Fast Grip
<b>Longbikes Nitro</b>	Recumbent	True Temper chromoly	Recumbent Mix	Shimano Dura-Ace bar-end	20 x 1.50" Avocet Fast Grip
<b>Rans Rocket</b>	Recumbent	4130 chromoly	Recumbent Mix	SRAM 7.0	20 x 1.35" Primo HP
<b>Rans Tailwind</b>	Recumbent	4130 chromoly	Recumbent Mix	SRAM 7.0	20 x 1.35" Primo HP
<b>Rans V-Rex</b>	Recumbent	4130 chromoly	Recumbent Mix	SRAM 9.0	20 x 1.35" Primo HP
<b>Rans Stratus</b>	Recumbent	4130 chromoly	Recumbent Mix	SRAM 9.0	20 x 1.35" Primo HP
<b>Rans Gliss</b>	Recumbent	4130 chromoly	Recumbent Mix	SRAM 9.0	20 x 1.35" Primo HP
<b>Rans Vivo</b>	Recumbent	4130 chromoly	Recumbent Mix	SRAM 9.0	20 x 1.35" Primo HP
<b>Rans Velocity Squared</b>	Recumbent	7005 T-6 aluminum alloy	Recumbent Mix	SRAM 9.0 SL	F: 20 x 1.35" R: 26 x 1.25" Primo HP
<b>ReBike 18-Speed</b>	Recumbent	Steel	Recumbent Mix	Grip Shift	n/a
<b>Re-Bike 6-Speed</b>	Recumbent	Steel	Recumbent Mix	Grip Shift	n/a
<b>S &amp; B Malibu/21 speed</b>	Recumbent	Chromoly	Recumbent Mix	Grip Shift Centera	n/a
<b>S &amp; B Malibu/14 speed</b>	Recumbent	Chromoly	Recumbent Mix	Grip Shift Centera	n/a
<b>Trek R200</b>	Recumbent	Alpha aluminum	Recumbent Mix	SRAM 7.0	20 x 1.35" Primo Comet
<b>Bike Friday Pocket Rocket Ultegra 2x9</b>	Folding	Steel	Folding Mix	Shimano Ultegra STI	n/a
<b>Bike Friday AirFriday Dura-Ace</b>	Folding	Steel/titanium	Shimano Dura-Ace	Shimano Dura-Ace STI	n/a
<b>Bike Friday Metro</b>	Folding	Steel	Folding Mix	Shimano Acera EZ Fire Plus	n/a
<b>Bike Friday AirGlide 105 STI</b>	Folding	Steel/titanium	Folding Mix	Shimano 105 STI	n/a
<b>Bike Friday New World Tourist Ultegra</b>	Folding	Steel	Folding Mix	Shimano Ultegra STI	n/a
<b>Bike Friday Navigator</b>	Folding	Steel	Folding Mix	Shimano Acera EZ Fire Plus	n/a
<b>Bike Friday Pocket Llama BF LX</b>	Folding	Steel	Folding Mix	Shimano Deore LX RapidFire SL	n/a
<b>Bike Friday AirLlama XT</b>	Folding, Suspension	Steel/Titanium	Folding Mix	Shimano Deore LX RapidFire SL	n/a
<b>Montague CX Comfort Bike</b>	Folding, Suspension	7005 aluminum/Chromoly	Mountain Mix	SRAM MRX	26 x 2.00" Kenda
<b>Montague MX Mountain Bike</b>	Folding, Suspension	7005 aluminum/Chromoly	Mountain Mix	Shimano Alivio RapidFire Plus	26 x 1.95" Cheng Shin
<b>Bike Friday Sat R Day 105</b>	Folding, Recumbent	Steel	Folding Mix	Shimano 105 STI	n/a
<b>Linear LWB</b>	Folding, Recumbent	6061 T6 aluminum	Recumbent Mix	SRAM Grip Shift	F: 20x1.125" Primo HP, R: 26x1.50" Tioga
<b>Linear SWB Sonic</b>	Folding, Recumbent	6061 T6 aluminum	Recumbent Mix	Sachs	F: 20x1.125" Primo HP, R: 26x1.50" Tioga
<b>Bike Friday Tandem Traveler</b>	Folding, Tandem	Steel	Folding Mix	Shimano RSX STI	n/a
<b>Bike Friday Tandem Two'sDay</b>	Folding, Tandem	Steel	Folding Mix	Shimano RSX STI	n/a
<b>Bike Friday Family Tandem Traveler</b>	Folding, Tandem	Steel	Folding Mix	Shimano Revo	n/a
<b>da Vinci Joint AdVenture S&amp;S</b>	Folding, Tandem	Chromoly w/ S&S coupling	Tandem Mix	SRAM 9.0	26 x 1.40" Ritchey Crossbite
<b>da Vinci Joint Venture S&amp;S</b>	Folding, Tandem	Chromoly w/ S&S coupling	Tandem Mix	Campagnolo Chorus Ergo	26 x 1.25" Panaracer Pasela
<b>da Vinci In-2-ition S&amp;S</b>	Folding, Tandem	Chromoly w/ S&S coupling	Tandem Mix	SRAM 9.0	Buyer's choice
<b>da Vinci Symbiosis XC S&amp;S</b>	Folding, Tandem	Chromoly w/ S&S coupling	Tandem Mix	Shimano Dura-Ace bar-end	n/a
<b>Meridian Explorer 1.4 S&amp;S</b>	Folding, Tandem	7005 aluminum	Tandem Mix	Shimano Deore XT RapidFire SL	n/a
<b>Meridian Explorer 2.0 S&amp;S</b>	Folding, Tandem	7005 aluminum	Tandem Mix	Shimano Deore XT RapidFire SL	n/a
<b>Meridian Quest 1.4 S&amp;S</b>	Folding, Tandem	7005 aluminum	Tandem Mix	Shimano Deore LX RapidFire SL	n/a

Crankset	Rear Cogs	Chainstay length	Brakeset	Rims	Sugg. Retail
Shimano 105, 30/42/52 teeth	9-speed, 11 - 32 teeth	n/a	Odyssey A-brake brakes, Tektro RBP-379A levers	Sun Rims CR18	1650.00
Campagnolo Daytona, 30/42/52 teeth	9-speed, 11 - 28 teeth	n/a	Campagnolo Daytona dual pivot brakes, Ritchey levers	Sun ME14A, Campy Scirocco	2995.00
Campagnolo Daytona, 30/42/52 teeth	9-speed, Buyer's choice	n/a	Campagnolo Daytona dual pivot brakes, Ritchey levers	Sun ME14A, Campy Scirocco	4600.00
Shimano Tourney TY-30	3-speed internal x 7-speed, 11 - 28	custom	Shimano 105 Dual Pivot brakes, Tektro levers	alloy	1099.00
Shimano 105, 28/42/52 teeth	9-speed, 11 - 32 teeth	n/a	Avid 1D-10 brakes, Avid AD-1.0 L levers	Sun Rims CR18	2299.00
Shimano 105, 28/42/52 teeth	9-speed, 11 - 32 teeth	n/a	Avid 1D-10 brakes, Avid AD-1.0 L levers	Sun Rims CR18	2299.00
Shimano 105, 28/42/52 teeth	9-speed, 11 - 32 teeth	n/a	Avid 1D-10 brakes, Avid AD-1.0 L levers	Sun Rims CR18	2499.00
Shimano 105, 28/42/52 teeth	9-speed, 11 - 32 teeth	n/a	Avid 1D-10 brakes, Avid AD-1.0 L levers	Sun Rims CR18	2499.00
Dotek aluminum, 39/50/62 teeth	8-speed, 11 - 28 teeth	n/a	SRAM 7.0 front/SRAM 7.0 rear brakes, SRAM 7.0 levers	Alex AL-DA16	995.00
Dotek aluminum, 39/50/62 teeth	8-speed, 11 - 28 teeth	n/a	SRAM 7.0 front/SRAM 7.0 rear brakes, SRAM 7.0 levers	Alex AL-DA16	995.00
Shimano 105, 30/42/52 teeth	9-speed, 11 - 32 teeth	n/a	SRAM 9.0 brakes, SRAM 9.0 levers	Alex AL-DA16	1595.00
Shimano 105, 30/42/52 teeth	9-speed, 11 - 32 teeth	n/a	SRAM 9.0 brakes, SRAM 9.0 levers	Alex AL-DA16	1595.00
Shimano 105, 42/52/64 teeth	9-speed, 11 - 32 teeth	n/a	SRAM 9.0 brakes, SRAM 9.0 levers	Alex AL-DA16n/a	1995.00
Shimano 105, 42/52/64 teeth	9-speed, 11 - 32 teeth	n/a	SRAM 9.0 brakes, SRAM 9.0 levers	Alex AL-DA16	1995.00
Shimano Ultegra, 30/42/52 teeth	9-speed, 11 - 32 teeth	n/a	Magura Louise Disc brakes, Magura Louise levers	Alex AL-DA16	3000.00
n/a	n/a	n/a	n/a	n/a	499.99
n/a	n/a	n/a	n/a	n/a	399.99
Shimano Deore LX	n/a	Custom	n/a	n/a	1150.00
Shimano Deore LX	n/a	Custom	n/a	n/a	1095.00
Cyclone alloy, 39 teeth	8-speed, 11 - 30 teeth	n/a	Avid 1D-10 brakes, Avid AD-1.0 L levers	Bontrager Maverick	n/a
Shimano Ultegra	n/a	n/a	n/a	n/a	1850.00
Shimano Dura-Ace	n/a	n/a	n/a	n/a	3295.00
Alloy	n/a	n/a	n/a	n/a	695.00
BF Cold Forged	n/a	n/a	n/a	n/a	1950.00
Shimano Ultegra	n/a	n/a	n/a	n/a	1595.00
Alloy	n/a	n/a	n/a	n/a	795.00
Shimano 105	n/a	n/a	n/a	n/a	1495.00
Shimano Ultegra	n/a	n/a	n/a	n/a	2550.00
3-piece aluminum, 22/32/42 teeth	7-speed, 13 - 28 teeth	16.75"	Lee Chi ProMax linear-pull, Lee Chi Alloy levers	Alex VP-18	449.99
Sakae XR-17, 22/32/42 teeth	8-speed, 11 - 28 teeth	16.75"	Lee Chi ProMax linear-pull, Lee Chi Alloy levers	Alex VP-18F	550.00
Shimano 105	n/a	n/a	n/a	n/a	2295.00
Shimano Tourney TY-30	3-speed internal x 7-speed, 11-28	custom	Shimano 105 Dual Pivot brakes, Tektro levers	aluminum	1350.00
Shimano Tourney TY-30	3-speed internal x 7-speed, 11-28	custom	Shimano 105 Dual Pivot brakes, Tektro levers	alloy	1350.00
BF Alloy Tandem	n/a	n/a	n/a	n/a	1595.00
Fuse Tandem	n/a	n/a	n/a	n/a	2495.00
BF Alloy Tandem	n/a	n/a	n/a	n/a	995.00
da Vinci Direct Drive, 24/36/48/60	8-speed, 12 - 32 teeth	n/a	Avid 1D-25 brakes, Avid Ultimate levers	da Vinci V-22	5750.00
da Vinci Direct Drive, 24/36/48/60	8-speed, 11 - 28 teeth	n/a	Avid 1D-25 brakes, Campagnolo Chorus levers	da Vinci V-22	5750.00
da Vinci Direct Drive, 24/36/48/60	8-speed, 12 - 32 teeth	n/a	Hope Full Hydraulic brakes, Hope levers	da Vinci V-22	7250.00
Shimano 105 (Triple)	n/a	n/a	n/a	aluminum	1755.00
Shimano 105	n/a	n/a	n/a	n/a	4495.00
Shimano 105	n/a	n/a	n/a	n/a	4495.00
Shimano 105	n/a	n/a	n/a	na/	3995.00