da Vinci Designs

When da Vinci Designs was founded in 1993, our objective was to build the highest quality, best handling, and most intuitive tandems on the planet.

In order to achieve this, we created many of the industry's only tandem-specific components. Whether it's a rim strong enough to meet our standards or custom cranks ranging from 150 to 180 mm in length for a perfect fit, we have designed it in-house because "close enough" doesn't cut it.

There are a lot of high-quality tandems being built in the U.S. today, and we encourage you to ride a few. But once you've tried da Vinci's patented Independent Coasting System, you too will find it hard to go back to an old-fashioned, locked-together tandem.

Riding a da Vinci is probably an experience our customers describe best, so check out their comments on the Testimonial page on our web site: www.davincitandems.com

Our goal is to build you the bike that you'll proudly proclaim as your favorite... not just today, but twenty years from now.

da Vinci designs offers tandems built from:

- Chrome-moly Steel (Available with Stainless S&S Couplers)
- Aluminum
- Titanium (Available with Titanium S&S Couplers)
- and Carbon Fiber* (Available with Stainless or Ti S&S Couplers)

Global Models Include:

- S&S Couplers
- Spanner Wrench
- EZ-Split Cable Separators
- Re-usable Frame Padding
- Self-extracting Crank Bolts

**Working with Craig Calfee, the undisputed master of custom carbon fiber bicycle frames, we are now offering Joint Venture and Joint AdVentures models in carbon fiber.*

Lat-less Frame

Until very recently, the technology to manufacture the large and long profile tubes needed to make the lat-less frame design work either did not exist or was not readily available to the bicycle industry.

The lat-less frame design saves nearly 1-1/2 pounds. A lighter tandem makes climbing easier. A lighter tandem is easier to load onto your roof rack.

39% stiffer at the head tube. More responsive for a better ride and more confidence in the corners and high speed descents.

The lat-less design still has the super comfortable ride da Vinci tandems are known for.

Safe and convenient water bottle placement. Five nearly vertical bottle locations are easier to reach and help keep the sticky drink residue from building up on your frame.

The lat-less design uses four S&S couplers, leaving more open space in the frame for easier packing and frame protection.

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Off-Road Tandems

da Vinci Off-Road Tandems are built for multi-surface riding. They will handle paved roads or gravel bike paths equally well. With "road" tires, a da Vinci Off-Road Tandem is nearly as efficient as a Road Tandem. With "mountain bike" tires, a da Vinci Off-Road Tandem is a machine ready for your favorite single-track, proving da Vinci tandems are the most versatile bikes on the planet.

Joint Adventure with da Vinci's Premium Off-Road component package–*the best, no-compromise, tandem-tested components.*

Global Venture – Joint Adventure with S&S Couplers.

In-2-ition Off-Road with da Vinci's In-2-ition Off-Road component package–*the best, price-sensitive, tandem-tested components.*

Global In-2-ition Off-Road – In-2-ition Road with S&S Couplers

Road Tandems

da Vinci Road Tandems are built to cover a lot of miles on roads–comfortably and fast. Road Tandems are for century rides, biking from town to town on the back roads of Italy, or setting a new record in your local club's time trial.

Joint Venture with da Vinci's Premium Road component package–*the best, no-compromise, tandem-tested components.* Available with 26" or 700c wheels

Global Venture – Joint Venture with S&S Couplers

In-2-ition Road with da Vinci's In-2-ition Road component package–*the best, price-sensitive, tandem-tested components.*

Global In-2-ition Road – In-2-ition Road with S&S Couplers

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Independent Coasting System

da Vinci's Independent Coasting System is both ingenious and simple. This patented, exclusive design offers the widest range of gearing and the best shifting on the planet while affording both riders the ability to coast when they want.

The 34 tooth timing rings drive the 17 tooth freewheels, so the intermediate shaft rotates twice as fast as the cranks. This doubles the effective size of the chainrings so that the 12, 18, 24, and 30 tooth chainrings are equivalent to 24, 36, 48, and 60 tooth chainrings.

Colors

- White
- Black
- Blue Blood
- Cosmic Green
- Champagne
- Designo Green
- Emerald Green
- Lake Violet Pearl
- Lapis
- Midnight Blue
- Orion Silver
- Passion Pearl
- Pavo Purple
- Snow White Pearl
- Razberry
- Stratto Blue
- Sunrise
- Tangelo
- Titanium

- Kandy Cobalt
- Kandy Red
- Kandy Tangerine
- Kandy Pagen Gold
- Kandy Oriental

Frame Sizes & Dimensions

Dims. for both 26” and 700c	Small	Medium	Large	Lrg/Sm
Front Seat Tube C/Top	20.5 (52.1cm)	22 (55.9cm)	23.5 (59.7cm)	22 (55.9cm)
Rear Seat Tube C/Top	16.75 (42.5cm)	18.75 (47.6cm)	20.75 (52.7cm)	16.75 (42.5cm)
Front Seat Tube C/C	17.2 (45.3cm)	19.3 (49.1cm)	20.8 (52.9cm)	19.3 (49.1cm)
Rear Seat Tube C/C	14.2 (36.1cm)	16.2 (41.1cm)	18.2 (46.2cm)	14.2 (36.1cm)
Stand-Over, Front w/1.1” (28mm) Tires *	29.6 (75.3cm)	31 (78.7cm)	32.3 (82.1cm)	31.6 (80.4cm)
Stand-Over, Rear w/1.1” (28mm) Tires	26.1 (66.2cm)	27.9 (70.9cm)	30.4 (77.2cm)	26.4 (67.2cm)
*** Add .5” (1.3cm) for 1.5” tires**				
Top tube, front	21.5 (54.6cm)	22 (55.9cm)	22.5 (57.2cm)	22.5 (57.2cm)
Top tube, rear	28.4 (72.1cm)	28.4 (72.1cm)	28.4 (72.1cm)	28.4 (72.1cm)
Head / Seat angles	73/73	73/73	73/73	73/73
BB height w/1.1” tires	10.7 (27.2cm)	10.7 (27.2cm)	10.7 (27.2cm)	10.7 (27.2cm)
*** Add .5” (1.3cm) for 1.5” tires**				
Chainstay length	17 (43.2cm)	17 (43.2cm)	17 (43.2cm)	17 (43.2cm)
Fork rake	1.96 (50mm)	1.96 (50mm)	1.96 (50mm)	1.96 (50mm)

Suspension Tandems

da Vinci Suspension Tandems are built to take rocks, loose gravel, sticks, bumps, and ruts and make them smooth. Suspension Tandems are for off-road and off-trail adventures: Rugged downhills and single track. These suspension bikes soak up the pain and make it fun.

Symbosis
(Full Suspension)

- Dropped frame for better stand-over.
- Fox RP23 rear shock
- White Bros. Magic 100 Tandem fork
- Adjustable bottom bracket height and rear travel
- Avid disc brakes
- Aluminum main frame and Chrome-moly Steel rear-end for stiffness and accurate wheel tracking

Symbosis XC
(Front Suspension)

- Dropped frame for better stand-over
- White Bros. Magic 100 Tandem fork

Frame materials:
Chrome-moly Steel (With or w/o S&S Couplers)

Aluminum

Titanium (With or w/o S&S Couplers)

Available Spring 2008

Grand Junction

Making the ICS drivetrain available for riders seeking an entry level tandem has been a dream of ours for many years.

da Vinci Designs has finally partnered with the best steel frame fabricator in Taiwan and made the commitment to a production run, so we can bring you a more affordable tandem with all the benefits of the ICS drivetrain. The Grand Junction also uses the same high quality Reynolds tubing used in our Denver-built tandems.

If you've been looking at a da Vinci tandem, but price has held you back, the Grand Junction is the bike for you.

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Parts and Accessories

Custom Cranks

Direct Drive Billet Machined Crank Sets

- 400g
- Beautifully polished
- Impressivly stiff
- Guaranteed to compliment any tandem or single bike
- 192 possible crank/spider configurations

Replaceable/Interchangeable Spider

- Low profile bottom bracket spindle (103-116mm) increases stiffness and reduces weight.
- Low 158mm outside-to-outside Q-factor.
- Lengths: 150, 160, 165, 170, 172.5, 175, 180mm.
- 3-hole crank arm lengths: 130/150/170mm.
- Single radius crank profile allows chain ring, front derailleur, chain stay and ankle clearance.
- Tapered crank arms put the strength where it's needed and reduce weight.

Available Spiders

Mountain: 104mm, 64mm Four Arm
Standard: 110mm, 74mm
Road: 130mm with optional 74mm
Replaceable one-piece: 34-tooth spider/chainring

Little Stoker Kid Cranks

Re-machined Shimano XT with 125/145mm holes.

110mm left side spider

Easy-Split Cable Separators

A simple way to disconnect your rear brake and both derailleur cables to pack your bike for travel.

Allows the use of two standard length cables.

Standard kit includes:
(2) Shift Cable Separators
(1) Brake Cable Separator
(1) 2mm Allen Wrench
No other tools required

Other kits available including Handlebar Switch Kit with extra front-halves

Travel Cases

Left - Deluxe Case available in 10” and 12”

Middle - Standard Case available in 10” or 12”

Right - Wheels Safe Pro

ControlTech Adjustable Stoker Stem

Length (uncut) 200mm to 255mm

Minumum length 155mm to 210mm

Stiffy Brake Stiffeners

Stress analysis designed, ultimate lightweight brake stiffener with maximum stiffness.

Stiffy brake-stud spacing 73mm to 92mm

Hand Built Tandem Wheel Sets

Beautiful, professionally hand built with Spoke Prep to reduce spoke loosening

Pre-stressed to reduce maintenance

26" V-22 rims (32 or 36 spokes) or 700c V-22 rims (36 or 40 spokes)

Sapim spokes

White Industries Hubs

Availible for rim and/or disc brakes

V-22 Rims

The V-22 rims were engineered to be lightweight, aerodynamic, and for the highest strength-to-weight-ratio. Tire can be changed with no special tools–just your hands. The V22 rims are made with 6061 T6 aluminum alloy. They are 22mm wide and 24mm tall. The V22 rims are available in both 26" and 700c sizes.

Tall aerodynamic profile. Stronger, more rigid. Uses fewer/lighter spokes with less spoke breakage. Dissipates up to twice the heat of conventional rims.

Multiple triangle design transfers impacts to the reinforcement walls in line with the bending forces. A high strength wheel results with little weight penalty.

Brake wall reinforcement in the center prevents rim compression under hard braking and rim expansion from high-pressure tires.

Wide, rounded lip with outside extension provides pinch flat protection while preventing brake pad related sidewall blowouts.

Thick, parallel sidewalls provides more vertical rigidity and longer braking surface wear.

Deep center makes for no-tool tire changes.

Tapered inner cavity for positive/faster bead seating. reduces the chance of tire blow-offs.

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