

The Zipper logo features the word "ZIPPER" in a bold, italicized, red font with a black outline. Below it, the words "SPEED WEAPONRY™" are written in a smaller, black, sans-serif font. The logo is set against a dark, rounded rectangular background.

**ZIPPER**  
SPEED WEAPONRY™

ROAD/TRI '98

110% Racing

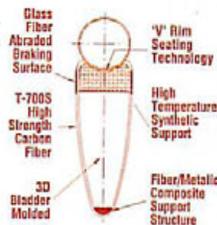
# ZIPP ZR1 Road Wheel Sets

ZR1

The ultimate high-performance integrated wheelset. This is the wheelset to have when seconds count and you need every aerodynamic and weight advantage you can get. The rims' slightly convex sidewalls absorb road shock, while their lateral stiffness makes precise cornering through tight turns an absolute joy. Combine that with the adrenaline rush-inducing aerodynamics that have made ZIPP a legend, and you have the strongest, fastest, lightest aero wheels you can buy. If you are serious about winning and ready to upgrade, the ZR1's are an investment in your racing future.

## The Facts

- Tubular or clincher performance\*
- Rim depth 58mm, width 19mm
  - 700c or 26"
- Bladed stainless steel spokes
  - Front 700c, 18-spoke, ZIPP 100 hub
  - Front 26" 16-spoke, ZIPP 100 hub
  - Rear 700c, 28-spoke, ZIPP 217 hub
  - Rear 26" 24-spoke, ZIPP 217 hub



R10.209

\* ZIPP tubulars have abraded glass matrix braking surfaces. Clinchers have aluminum braking surfaces.

R12.100 Aluminum Valve Extensions





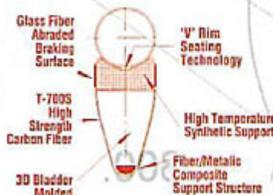
# ZIPP ZV1 Road Wheel Sets

## ZV1

ZIPP'S ultimate road racing wheelset! Each component has been carefully considered and assembled without compromise into the finest integrated road racing wheelset you can put on your bike! The exceptionally low perimeter weight means unbeatable acceleration and quickness. Carbon fiber rim construction makes these wheels laterally stiff and very responsive. With literally hundreds of road racing victories attributed to these wheels, their pedigree is well established!

### The Facts

- Rim depth 38mm, width 19mm
- Front wheel: 28-spoke, ZIPP 100 hub
- Rear wheel: 32-spoke, ZIPP 217 hub, Shimano 8/9-spd, Campagnolo 8-spd
- 700c tubular with abraded glass matrix braking surface
- Bladed stainless steel spokes



### The Feedback

"...those Zipp hoops look fast, and are."

*Bicycle Guide, September 1996*



# ZIPP ZV Road Wheel Sets

**ZU**  
Another innovation in wheelsets, this time for the road racer in search of less expensive high-performance wheels. Legendary ZIPP road racing wheels with the new "lace 'em in and forget 'em" ZIPP hubs. Smooth-rolling, quick-handling, and incredibly stiff, these wheels are ready for anything the strongest road racer can dish out, and they'll keep delivering long after the fanfare dies down!

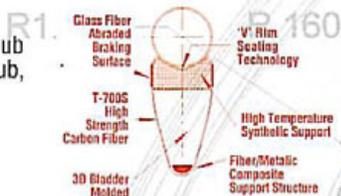
## The Facts

- Rim depth 38mm, width 19mm
- Front wheel: 28-spoke, ZIPP 182 hub
- Rear wheel: 32-spoke, ZIPP 377 hub, Shimano 8/9-speed compatible
- 700c tubular with abraded glass matrix braking surface
- Bladed stainless steel spokes



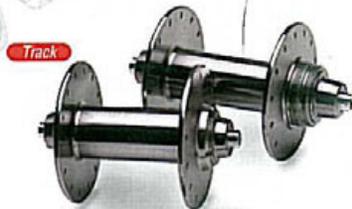
Aluminum Valve Extensions

**110%**  
RACING



## How fast do you want to go?

If your size, riding style, or personal performance goals demand a racing wheel that is truly unique, the ZIPP Custom Wheel program is designed for you. Hand select rims, hubs, and spokes, and we will then custom build your wheels to our precise specifications. 248



## Hub Options

**100** Front in 16, 18, 24, 28, 32 holes **182** Front in 16, 18, 28 holes

**217** Rear cassette, Shimano or Campagnolo in 24, 28, 32 holes

**377** Rear cassette, Shimano only in 24, 28, 32 holes **High Flange Track** Front and Rear in 28 and 32\*\*

\*\* Bladed stainless spoke lengths available for Zipp Track hub to build 440 rims only.

**310** Mid-V tubular 26", in 18, 24, 28, 32 holes **340** Mid-V tubular 700c, in 18, 24, 28, 32 holes  
**400** Deep-section tubular 26", in 16, 18, 24, 28, holes **440** Deep-section tubular 700c, in 16, 18, 24, 28, 32 holes  
**500** Deep-section clincher 26", in 16, 18, 24, 28, holes **530** Deep-section clincher 700c, in 16, 18, 24, 28, 32 holes

You have questions? Call us: 800-231-6755 (in U.S.A.)

R.125

R.025



## Spoke Options

14-gauge bladed **Stainless steel** spokes with brass nipples  
14-gauge bladed **Titanium** spokes with alloy nipples\*

\* Titanium spokes available in lengths suitable for Zipp 100 and 217 hubs only.

R.061

## Rim Options



310

## The feedback

"...great aero wheels and rims...these wheels delivered a solid performance...exceptionally easy to accelerate... side-to-side flex I was able to detect was minimal." *Bicycle Guide, February 1997*

"...these hoops accelerate quickly, roll beautifully and feel laterally stiff even in big-gear wind-ups and out-of-saddle climbing. We'd love to have a pair for time trials, triathlons or even a century that cries out for a PR." *Bicycling Magazine, August 1997*

"...Zipp has just developed a clincher version of its wheels so we can have clincher convenience as well as an aluminum braking surface..." *Bicycle Guide, September, 1996*

**110%**  
**RACING**



## Disc

The wheels that revolutionized the disc wheel industry and have become the premier wheels in their class. ZIPP has a "no compromises" attitude when it comes to the best possible performance, and combined with multiple World Championships and Olympic victories, that ensures your future success on these wheels. While others have tried to imitate their unrivaled combination of light weight, stiffness, and flawless aerodynamics, ZIPP still continues to outperform other discs in the wind tunnel and, more importantly, on the road and the track. Ride the wheels that are the choice of champions the world over.

## Features

- 19mm frontal area and completely flat disc surface to ensure optimum aerodynamic performance
- A variety of hub options for various applications: 2-sided for 8-speed freewheel and track, cassette, or front (for indoor tracks)
- Cassette disc available in 8 or 9-speed Shimano or 8-speed Campagnolo compatibility
- High strength hollow 100 gram carbon rim for minimal weight at the outer perimeter
- Avail. in 2 sizes: 700c model 900 and 26" model 840

Valve Adapter



Front Disc Hub



Cassette Hub



Track Hub

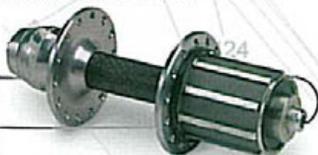
7

**ZIPP**<sup>®</sup> 840  
SPEED WEAPONRY™



# ZIPP Hubs

Hubs Legendary ZIPP performance now offered 2 different ways! The ultra-lightweight ZIPP 100 and ZIPP 217 are the choice for building up those wheels that will be a 'gram shaver's' dream. If something a little more substantial and low-maintenance is more what you have in mind, go with the ZIPP 182 and ZIPP 377.



**217 Cassette Hub** The groundbreaking design that defies all rules. At 220 g, this high-performance hub is our most notable advancement in hub design. The cassette body rotates on Teflon<sup>®</sup> coated bushings instead of bearings, allowing us to keep the weight so low. Its super light weight does mean regular lubrication, as well as a break-in period for the bushing system, is required. ZIPP Lube is packaged with each hub so you can keep it running smoothly.

**The Facts** Proprietary 4-pawl stainless cassette mechanism • Sealed cartridge axle bearings • Structural carbon tube which runs through the length of the hub • Choice of Shimano 8 or 9-speed or Campagnolo 8-speed • Avail. in 24, 28, 32 slotted holes

**The Feedback** "...the interface between the Zipp hubs and the rest of the Dura-Ace drivetrain was solid and problem-free."

*Bicycle Guide, Sept. 1996*



**100 Front Road Hub** At only 99 grams, this is one of the lightest front hubs you can get. A high-profile center aluminum axle and a structural carbon tube center section make for great durability and strength.

**The Facts** Exclusive ZIPP wavespring and double seals for long bearing life • Avail. in 16, 18, 24, 28, 32 slotted holes

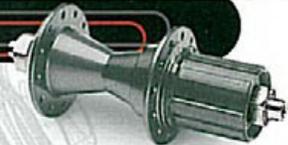
**The Feedback** "...amazingly light hubs..." *Bicycle Guide, Sept. 1996*



**182 Front Road Hub (NEW)** Smooth-rolling and durable, these hubs are for racing, training, and riding every day. Lace them in and just go riding!

**The Facts** Avail. in 16, 18, 28, slotted holes • Industrial-grade sealed cartridge bearings • Smoke anodized and lazer-etched ZIPP logo • Weight 182 grams

R.125

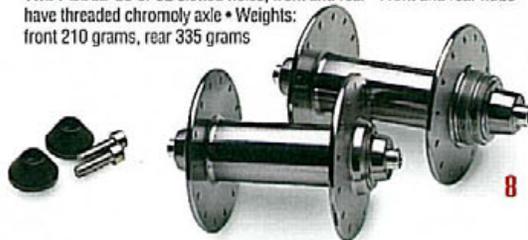


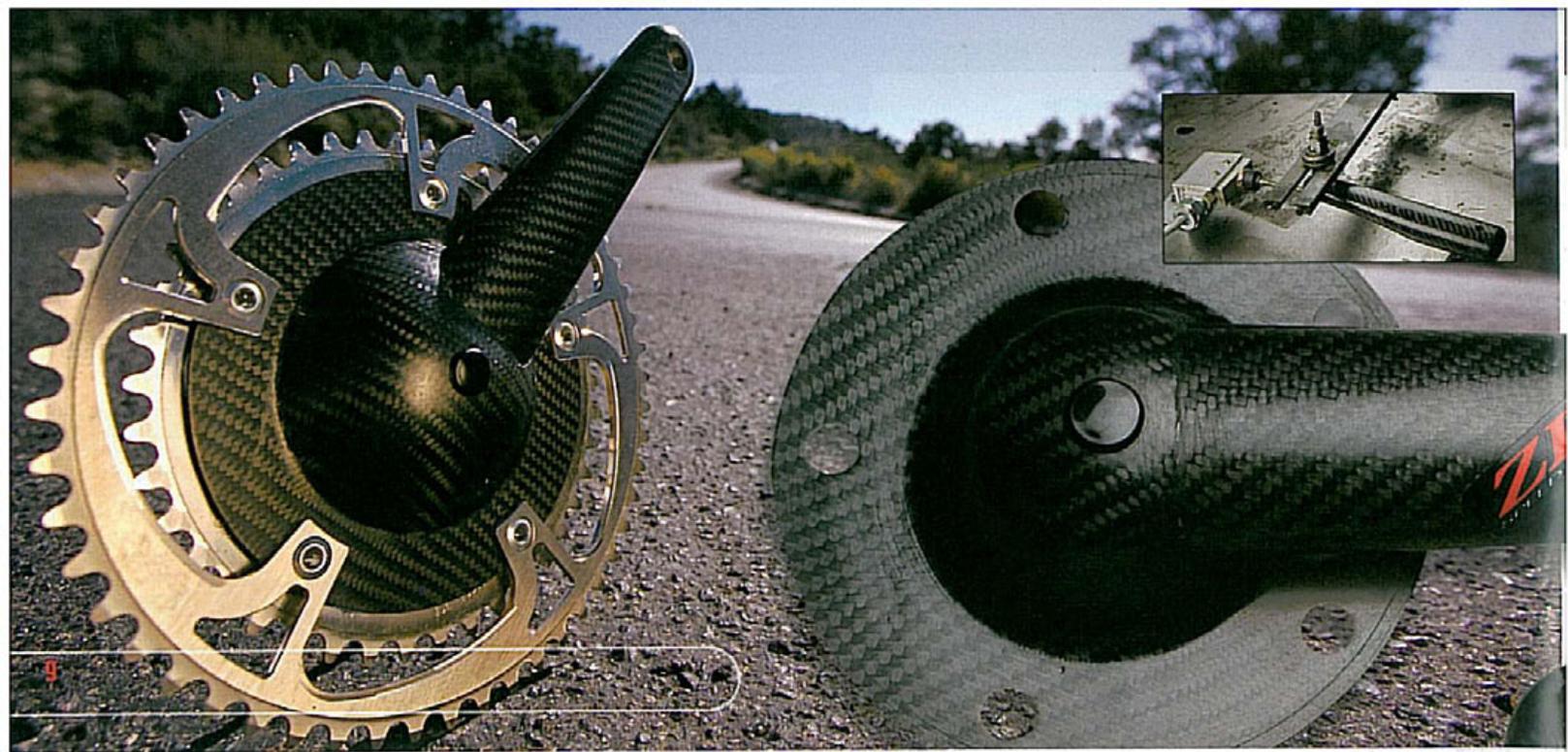
**377 Cassette Road Hub (NEW)** The new ZIPP 377 is durable and trouble-free, offering great performance for any type of road riding conditions. If you think of the 217 as a Ferrari, think of this as a turbo-charged Volvo. Whether you're racing triathlons, riding centuries, or burning hot laps around your favorite park, these hubs offer a perfect balance of performance and durability.

**The Facts** 4 Industrial-grade sealed cartridge bearings • Shimano 8 or 9-speed compatible • Proprietary steel 2-pawl cassette system • Avail. in 24, 28, 32 slotted holes • Smoke anodized & lazer-etched logo • Weight: 377 grams

**ZIPP Track Hubs** ZIPP's reputation for performance and our successes on banked tracks worldwide are behind these world-beating hubs. Built for durability and speed, these high-flange track hubs have been precision machined from a solid billet of 6262 T-6 aluminum.

**The Facts** 28 or 32 slotted holes, front and rear • Front and rear hubs have threaded chromoly axle • Weights: front 210 grams, rear 335 grams





# ZIPP Carbon Fiber Road Crank Sets

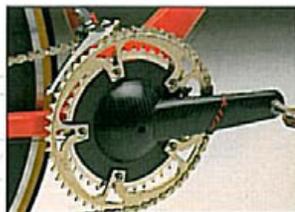
**The Mission:** Produce the strongest, lightest, stiffest crankset in the world — and do it with carbon fiber.

They said it couldn't be done. But if you know what you're doing, carbon is the perfect material for manufacturing a crank. It is stiff and light, and the laminates can be oriented any direction to resist the forces applied to them. We have invested more R&D in this product than any other in our line, and it has paid off with a proprietary molding system which enables us to produce an incredibly strong, stiff, lightweight carbon fiber crankset with the great looks and performance you would expect from the leader in composite cycling products.

To test the strength of the ZIPP crank, we designed a machine that would apply specific amounts of force repeatedly. We put the ZIPP crank through 3.7 million cycles at 3 times the force that a Cat 1 racer would apply to a pedal. Accumulative fatigue is the enemy of all moving parts. Quite simply, we wanted to test the ultimate limits of the crank until it failed. It never failed.

## The Facts

- Average weight a measly 350g.
- 36% stiffer in torque load / 27% stronger in bending moment
- Self-extracting crank arms • Sleek, very stiff, aerodynamic composite 'spider'
- Fits standard, 2° taper bottom bracket spindles
- Available lengths for road: 170, 172.5, 175, 177.5, 180mm
- 130mm bolt pattern accepts most standard and aftermarket chainrings
- Designed to work with 113mm bottom bracket width



## The Feedback

Most people who have seen it are struck speechless

**110%  
RACING**

# ZIPP Apparel / Accessories



**Sweatshirt** - Some people say this is the best sweatshirt they have ever owned. Now with a new logo. Heavy black cotton, cut extra roomy. L or XL.



**Shorts** - Everyone knows the only proper color for bike shorts is black. We include ZIPP logos on each leg at no additional cost. Made by Aussie Racing.



**Jersey** - The ZIPP Fighter Pilot returns! Wear a classic with updated graphics. Made by Aussie Racing.



**T-Shirts** - Stone washed cotton with subtle stripes and new ZIPP globe logo. Black or Mocha. L or XL. (Inset of back design)



**Golf Shirt** - 100% pre-shrunk cotton. Any color you want, as long as it's black. ZIPP Speed Weaponry logo on chest.



**Hats** - Washed cotton and available in black or khaki. Embroidered with the world's fastest logo. One size fits most. (Inset of back design)



**Coffee mugs** - For leisurely, recreational drinking when aerodynamics are not as crucial



**Wheel bags** - Carry the world's fastest wheels in the world's fastest wheel bag. Heavy-duty, padded nylon with extra reinforcement.



**Water bottles** - Drink up. Carries 30oz. of your favorite beverage with a convenient lid so you won't spill it.



ZIPP Race Banner - 5' x 2'



ZIPP Large Decal - 5" x 12"  
Authorized Dealer Decal - 5" x 12"  
ZIPP Small Decal - 1" x 4"



ZIPP 217 Hub Lube -



**ZIPP/TUFO Tubular Tires** -  
• The 219 26" 225 g 700c 237 g  
• The 221 26" 243 g 700c 264 g  
• The 121 Track Tire 700c 206 g

## ZIPP

SPEED WEAPONRY™

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