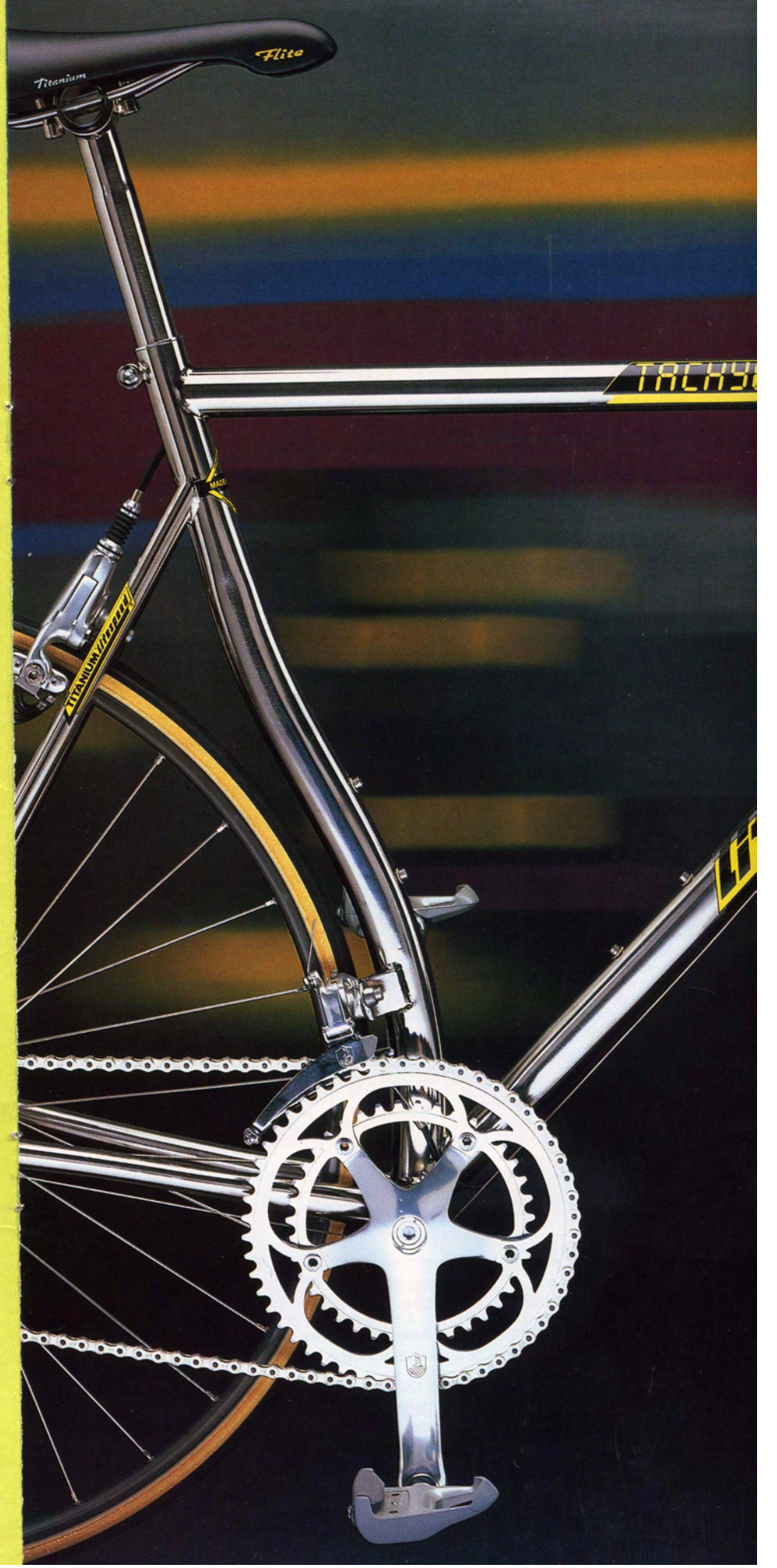
There are those in every sport who simply refuse to compromise. Unwilling to acknowledge limitations in themselves or their equipment, they press ever forward, striving for ultimate performance.

It is for that individual athlete that Litespeed Titanium was created.

From exhaustively researched and proven frame geometry to components that are all machined and milled to the most exacting standards in the bicycle industry, Litespeed Titanium is for the perfectionist.

Litespeed Titanium is performance beyond any experience...it is precision beyond compare...it is The Ultimate.

1991




Flite
TITANIUM
TACHYON
LITESPEED

"At Litespeed, we simply refuse to accept anything less than perfection. We combine a true passion for cycling with precision engineering and expert craftsmanship."

W. David Lynskey
President - Litespeed Titanium

a



b



c



Excellence is a demanding taskmaster. Its pursuit leaves no room for compromise and its achievement brings its own rewards.

Litespeed Titanium represents the pinnacle of accomplishment in competitive cycling products. Nowhere else will you find so perfect a marriage of grace, elegance, strength and performance. Litespeed Titanium is the essence of design, engineering and fabrication. In short, Litespeed Titanium is The Ultimate.

Mastery over the manipulation of titanium as a material has been among the most elusive of metallurgical goals. But the application of that mastery to the realization of a unique concept is a rare phenomena indeed.

The product introduced here represents the cutting edge of the titanium cycling industry. Among the notable "firsts" you will find are uniform wall-tapered tubing in the main triangle, "Quick Change Dropouts" that are unique in the industry and "Aero-Oval" tubing. These advances, along with the graceful curving of structural members, allow Litespeed to design and produce cycling machines that are simply not available from other manufacturers. Litespeed Titanium is beyond compare. Litespeed Titanium is without equal. Litespeed Titanium is the Ultimate.

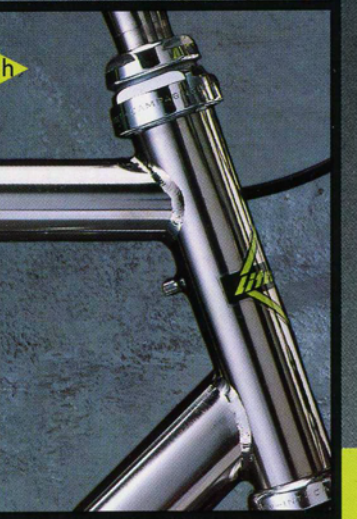


As the demand for bicycle frames and components made from titanium and other "exotic" metals has grown, Litespeed Titanium Components, Inc. has emerged as a industry leader. Litespeed has achieved that leadership position for a number of important reasons, the first of which is our uncompromising commitment to quality. Tolerances considered acceptable by others are simply not good enough for Litespeed. Our precision, computer-controlled fabrication and machining of frames and components allows us to achieve the most exacting standards in the bicycle industry.

In the age old tradition of fine craftsmanship, Litespeed has been family owned and operated for forty years. Our highly specialized manufacturing facilities enable us to satisfy even the most demanding design specifications for both U.S. and European bicycle companies. From tapering, bending, ovalizing, butting and bulging titanium tubing to innovative design services and engineering, our reputation is built on unyielding quality in every bicycle frame and component we produce.











litespeed
TITANIUM



a Elevated Chainstay Mountain Frame

- "Quick-change" dropouts
- Versatile threaded bottom bracket shell
- Oversize downtube
- Cantilever brake bosses
- Top tube cable guides for brake and rear derailleur
- Short 16" chainstays

Sizes available: 15" thru 22"
Weight: 2.9 lbs. to 3.8 lbs.

The Litespeed elevated chainstay provides incredible climbing ability, a quick handling geometry, and eliminates chain suck while providing clearance for a 2.5" tire.

b Standard Mountain Frame

- "Quick-change" dropouts
- Versatile threaded bottom bracket shell
- 19" and larger have oversize downtube
- Cantilever brake bosses
- Top tube routed brake and rear derailleur cables

Sizes available: 14.5" thru 22"
Weight: 2.8 lbs. to 3.8 lbs.

Named as one of the best handling bikes ever. Excellent for climbing or descending the roughest terrain, the Litespeed Titanium mountain bike will make anyone a better rider.

c Suspended Mountain Bike

- "Quick-change" dropouts
- Versatile threaded bottom bracket shell
- Fully suspended front and rear
- Air/Oil dampened suspension, front & rear
- 2.5" of travel front
- 3" of travel rear
- Sealed bearing pivots on swing arm
- Quick release seat clamp

Sizes available: 17" thru 21"
Weight: 6.6 lbs. to 7.6 lbs. including suspension

Truly the ultimate mountain bike. Combining the advantages of an air/oil dampened suspension with titanium provides the rider with incredible control and smoothness that makes the long ride seem short.

d "Litespeed" Ultimate Road Frame

- "Quick-change" dropouts
- Tapered top tube
- Versatile threaded bottom bracket shell
- Tapered and ovalized downtube
- Curved seattube
- High strength brake bridge

Sizes available: 48 cm thru 62 cm
Weight: 2.5 lbs. to 3.5 lbs.

The most technologically advanced frame in the world. Designed to be the ultimate racing frame. Tapered and ovalized tubes increase strength and stiffness without the penalty of extra weight. The curved seat tube serves 3 purposes: shorter chainstays for better acceleration, cold working of tube increases bottom bracket strength, and because of the angle of curvature, the effective length of the top tube can be increased simply by raising the seat.

e Tachyon Road Frame

- Rear entry dropouts
- Internally routed brake cable
- Versatile threaded bottom bracket shell
- Aerodynamically shaped seat & down tubes
- "S" shaped seat tube
- Super short tapered 368 mm chainstays
- 700 cm wheels, front and rear

Sizes available: 48 cm thru 62 cm
Weight: 2.5 lbs. to 3.5 lbs.

Tachyon is defined as a hypothetical sub-atomic particle that travels greater than the speed of light and possesses infinite energy. The unique design parameters of this frame make it one of the fastest, best climbing, and most agile bikes in the world. Used by more pro triathletes than any other brand of bike. The inertia of 700 cm wheels provides excellent balance and a more constant top speed.

f Classic Road Frame

- "Quick-change" dropouts
- Versatile threaded bottom bracket shell
- High strength brake bridge
- Internally routed brake cable

Sizes available: 48 cm thru 62 cm
Weight: 2.5 lbs. to 3.5 lbs.

Classic European geometry combined with the smooth, responsive ride of ultralight titanium make this an exceptional road frame.

g Stems

- 3-2.5 alloy construction
- Titanium bolts
- Aluminum cap and wedge
- Standard or oversize
- Angles: Negative 5 degree (road) 5 degree or 14 degree (mountain)

Sizes available: Road 110 mm thru 150 mm; Mountain 120 mm thru 150 mm

Litespeed stems offer the ultimate connection between rider and road. Steering input is accurately transmitted to the wheel.

h Welding

Litespeed recognizes the fact that the welds are a most crucial area on a titanium frame. Our welds are unsurpassed in strength and beauty. Using computer aided welding techniques, both heat input and bead size are precisely controlled.

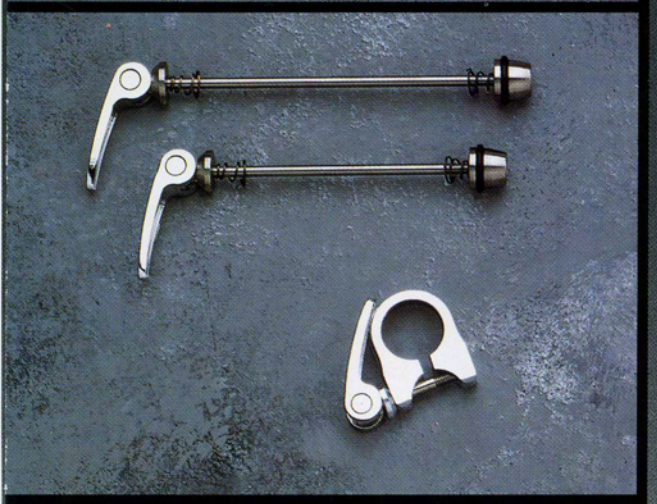
i Mountain Bike Front Fork

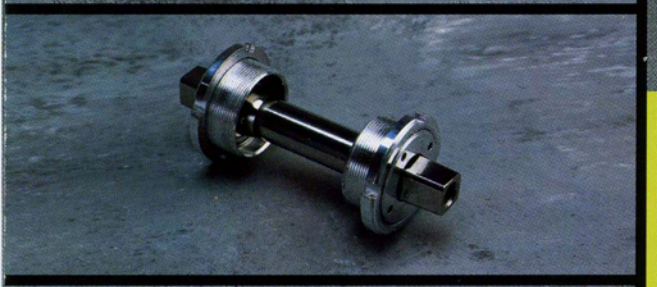
- Oversize 1 1/4" diameter butted blades
- Constant radius 1.62" offset
- Superstrong crown
- Standard or oversize steerer

Sizes available: 150 mm thru 230 mm
Weight: 1.3 lbs.

The superstrong 5 piece crown combined with the oversize-butted constant radius blades provide accurate tracking while giving the rider a smooth controlled ride.









Titanium Components

In addition to uncompromised frame construction, Litespeed Titanium, Inc. produces a full line of titanium components. Extensive research and testing have resulted in the development of superior performance parts which offer weight savings without sacrificing strength.

Mountain Bike Handlebars

- Tapered design
- 3 degree bend
- 23 inches long

Weight: 170 grams

Litespeed Titanium handlebars significantly reduce weight and absorb shock with remarkable efficiency.

Quick Release Skewers and Seat Post Clamps

- Cam action
- Titanium rod and lock nut
- Aluminum handle

Skewers: 80 grams Seat Post Clamp: 60 grams

Litespeed skewers and seat post clamps are machined to exacting standards. 6AL-4V titanium coupled with 7000 series aluminum combine to provide incredible holding power with less weight.

Bottom Brackets

- 6-4 Alloy Titanium Spindle
- 7000 Series aluminum cups and lock rings
- Sealed bearings

Weight: 159 grams

Ultralight Litespeed bottom brackets are precision machined for accurate fit. Smooth oversize bearings offer less rolling resistance than conventional bearings with no maintenance. Available for both mountain bike and road bike configurations.

Seat Posts

- Titanium post
- Aluminum crown

Sizes available: 27.0 mm and 27.2 mm
Weight: 200 grams

Lightweight yet strong seatposts securely position saddle while trimming excess weight. Titanium makes it exceptionally comfortable.

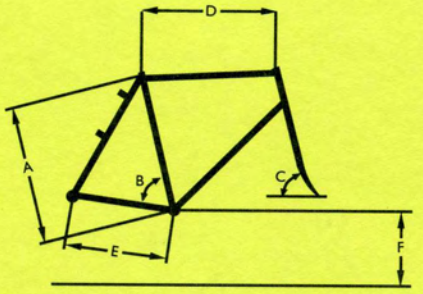
Spokes

- 14 gauge
- Threaded or blanks

The single most critical weight area on a bike is the wheels. The rotating mass has as much or more influence on overall performance than any other single component. Litespeed Titanium spokes can cut as much as a 1/4 pound of weight *per wheel.*

"Quick-change" Dropouts

Using a unique combination of slot size, angle and derailleur positioning, we have created a rear dropout that is a mechanic's dream come true. Incredibly smooth insertion and removal of the wheel, coupled with a derailleur position makes even today's complex shifting systems work effortlessly.

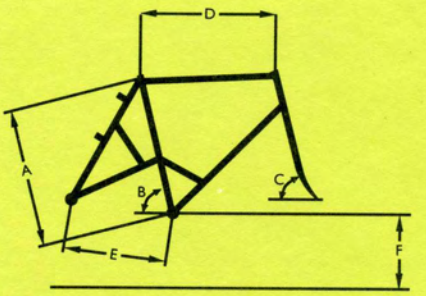


STANDARD MOUNTAIN FRAME GEOMETRY (Inches)

A* B C D E F

FRAME SIZE INCHES	SEAT TUBE ANGLE	HEAD TUBE ANGLE	TOP TUBE LENGTH	CHAIN STAY LENGTH	BOTTOM BRACKET HEIGHT
14.5	73	71	21.25	16.75	11.75
16	73	71	21.75	16.75	11.75
17	73	71	22.25	16.75	11.75
18	73	71	22.75	16.75	11.75
19	73	71	23.25	16.75	11.75
20	73	71	23.75	16.75	11.75
21	72	71	24.25	16.75	11.75
22	72	71	24.75	16.75	11.75

*Measured center of bottom bracket to center of top tube

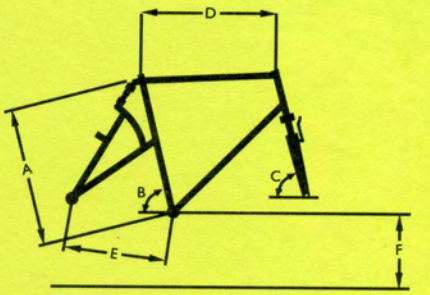


ELEVATED CHAINSTAY MOUNTAIN FRAME GEOMETRY (Inches)

A* B C D E F

FRAME SIZE INCHES	SEAT TUBE ANGLE	HEAD TUBE ANGLE	TOP TUBE LENGTH	CHAIN STAY LENGTH	BOTTOM BRACKET HEIGHT
15	73	72	21.25	16	11.75
16	73	72	21.75	16	11.75
17	73	72	22.25	16	11.75
18	73	72	22.75	16	11.75
19	73	72	23.25	16	11.75
20	73	72	23.75	16	11.75
21	72	72	24.25	16	11.75
22	72	72	24.75	16	11.75

*Measured center of bottom bracket to top of top tube

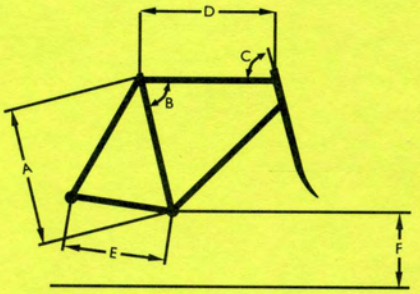


SUSPENDED MOUNTAIN BIKE GEOMETRY (Inches)

A* B C D E F

FRAME SIZE INCHES	SEAT TUBE ANGLE	HEAD TUBE ANGLE	TOP TUBE LENGTH	CHAIN STAY LENGTH	BOTTOM BRACKET HEIGHT
17	73	71	22.25	16	12
18	73	71	22.75	16	12
19	73	71	23.25	16	12
20	73	71	23.75	16	12
21	73	71	24.25	16	12

*Measured center of bottom bracket to top of top tube

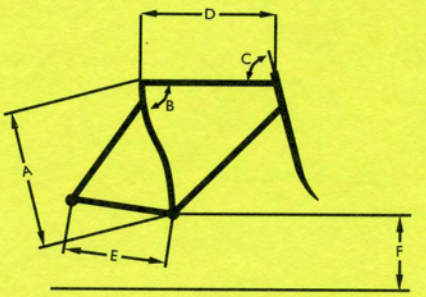


CLASSIC ROAD FRAME GEOMETRY (Centimeters)

A* B C D E F

FRAME SIZE CM	SEAT TUBE ANGLE	HEAD TUBE ANGLE	TOP TUBE LENGTH	CHAIN STAY LENGTH	BOTTOM BRACKET HEIGHT
48	75	72	50	40.6	26.9
50	75	72.5	52	40.6	26.9
52	74.5	73	53	40.6	26.9
54	74.5	73	54.5	40.6	26.6
56	74	73.5	56	40.6	26.6
58	73.5	73.5	57	40.6	26.6
60	73	73.5	58	40.6	26.3
62	73	73.5	58.5	40.6	26.3

*Measured center of bottom bracket to top of top tube

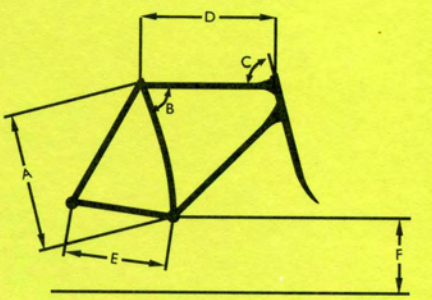


TACHYON ROAD FRAME GEOMETRY (Centimeters)

A* B C D E F

FRAME SIZE CM	SEAT TUBE ANGLE	HEAD TUBE ANGLE	TOP TUBE LENGTH	CHAIN STAY LENGTH	BOTTOM BRACKET HEIGHT
48	76	70	52	368	260
50	76	70	54	368	260
52	76	70	55	368	260
54	75	70	56.5	368	260
56	75	71	57	368	260
58	75	71	59	368	260
60	74	71	59.5	368	260
62	74	71	60	368	260

*Measured center of bottom bracket to top of top tube



"LITESPEED" ULTIMATE ROAD FRAME GEOMETRY (Centimeters)

A* B** C D E F

FRAME SIZE CM	SEAT TUBE ANGLE	HEAD TUBE ANGLE	TOP TUBE LENGTH	CHAIN STAY LENGTH	BOTTOM BRACKET HEIGHT
48	73	73	49.5	39.3	269
50	73	73	51.5	39.3	269
52	73	73	52.5	39.3	269
54	73	73	54	39.3	269
56	73	73	55.5	39.3	269
58	73	73	56.5	39.3	269
60	73	73	57.5	39.3	269
62	73	73	58	39.3	269

*Measured center of bottom bracket to top of top tube

**Effective seat tube angle

Litespeed Titanium
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