

# Camena

LIGHTWEIGHT | BALANCED | NIMBLE

GEOMETRY BY *Tom Helweg*



From conception to completion the Camena fully enhanced the bio-mechanical differences between the male and female anatomy. The lightweight frame provides a more balanced center of gravity for a woman that includes a responsive, nimble ride quality.

- Centered on a shorter top tube-creating a smaller cockpit space for a woman's body.
- Since women carry more of their power and weight in their hips, the Camena has been designed with longer chainstays to provide a more balanced center of gravity and responsive ride.
- On average women have longer femurs, Merlin addresses this with a more shallow seat tube angle giving optimum rider positioning.
- Merlin MTS standards are illustrated in that the Camena features a lighter tube set than a frame like the Cyrene. With power and center of gravity positioned differently on a female rider, the model specific MTS tube specs ensure that the bike provides both a smoother ride and less material where it is not needed.

#### Component Sets Available

Shimano Dura-Ace  
Shimano Ultegra  
Sram Force  
Campagnolo Record  
Chorus

# Cyrene

SWIFT | AGILE | UNIQUE

GEOMETRY BY *Tom Hallock*



Simplicity and performance defines the Cyrene. Merlin MTS tubing with subtle engraving completes this unique all day, high performance road bike. Let this bike swiftly ascend you to the top of the climb only to feel it's agility on the twisty descents.

#### Component Sets Available

- Shimano Dura-Ace
- Shimano Ultegra
- Sram Force
- Campagnolo Record
- Chorus

# Extralight

LIGHTWEIGHT | REFINED | FAST

GEOMETRY BY *Tom Helweg*



Merlin's flagship since 1992 the Extralight has set the standard on lightweight titanium road racing bicycles. The newly refined double butted, tapered and ovalized Merlin MTS size specific tube set further improves a very light, stiff, fast, strong and comfortable performance oriented ride.

#### Component Sets Available

- Shimano Dura-Ace
- Shimano Ultegra
- Sram Force
- Campagnolo Record
- Chorus

# 2006 Frame Geometry



| Model      | Size<br>(cm) | Seat Tube<br>Length<br>(cm) | Top Tube<br>Length<br>(cm) | Head Tube<br>Length<br>(cm) | Head Tube<br>Angle | Seat Tube<br>Angle | Chainstay<br>Length<br>(cm) | Wheelbase<br>(cm) | Standover<br>Height<br>(cm) | Front<br>Center<br>(cm) | BB Drop<br>(cm) | Fork Rake<br>(mm) | Frame<br>Weight<br>(grams) | Frame<br>Weight<br>(lbs) | Wheel Size |
|------------|--------------|-----------------------------|----------------------------|-----------------------------|--------------------|--------------------|-----------------------------|-------------------|-----------------------------|-------------------------|-----------------|-------------------|----------------------------|--------------------------|------------|
| Cyrene     | 49           | 51                          | 52                         | 9.3                         | 72.5               | 74.0               | 42.0                        | 97.6              | 74.3                        | 56.3                    | 7.4             | 50.0              | 1305                       | 2.87                     | 700C       |
|            | 51           | 53                          | 53.5                       | 10.5                        | 72.5               | 74.0               | 41.5                        | 98.9              | 75.7                        | 57.2                    | 7.2             | 50.0              | 1350                       | 2.97                     |            |
|            | 53           | 55                          | 54.5                       | 12                          | 73.0               | 74.0               | 41.0                        | 98.4              | 77.6                        | 58.4                    | 7.2             | 45.0              | 1375                       | 3.03                     |            |
|            | 55           | 57                          | 55.5                       | 13.5                        | 73.0               | 73.5               | 41.0                        | 98.3              | 79.4                        | 58.3                    | 7.2             | 45.0              | 1400                       | 3.08                     |            |
|            | 57           | 59                          | 56.5                       | 15.3                        | 73.5               | 73.0               | 41.5                        | 99.3              | 81.2                        | 58.8                    | 7.0             | 43.0              | 1440                       | 3.17                     |            |
|            | 59           | 61                          | 57.5                       | 17.2                        | 73.5               | 72.5               | 41.5                        | 99.0              | 83.1                        | 59.0                    | 7.0             | 43.0              | 1540                       | 3.39                     |            |
|            | 61           | 63                          | 58.5                       | 19.3                        | 73.5               | 72.5               | 41.5                        | 100.2             | 85.1                        | 59.5                    | 6.8             | 43.0              | 1630                       | 3.59                     |            |
| Extralight | 49           | 51                          | 52.1                       | 9.2                         | 72.5               | 74.0               | 41.6                        | 96.7              | 74.5                        | 56.2                    | 7.3             | 45.0              | 1130                       | 2.49                     | 700C       |
|            | 51           | 53                          | 53.3                       | 9                           | 73.0               | 74.0               | 41.6                        | 97.8              | 75.7                        | 57.2                    | 7.0             | 45.0              | 1170                       | 2.58                     |            |
|            | 53           | 55                          | 54.5                       | 11                          | 73.0               | 74.0               | 41.0                        | 98.4              | 77.6                        | 58.4                    | 7.0             | 45.0              | 1210                       | 2.67                     |            |
|            | 55           | 57                          | 55.5                       | 12.5                        | 73.5               | 73.5               | 41.0                        | 98.3              | 79.4                        | 58.3                    | 7.0             | 43.0              | 1250                       | 2.75                     |            |
|            | 57           | 59                          | 56.5                       | 14                          | 73.5               | 73.0               | 41.0                        | 98.8              | 81.2                        | 58.8                    | 7.0             | 43.0              | 1290                       | 2.84                     |            |
|            | 59           | 61                          | 57.5                       | 16                          | 74.0               | 73.0               | 41.0                        | 99.0              | 83.1                        | 59.0                    | 7.0             | 40.0              | 1335                       | 2.94                     |            |
|            | 61           | 63                          | 58.5                       | 18                          | 74.0               | 72.5               | 41.6                        | 100.2             | 85.1                        | 59.5                    | 6.7             | 40.0              | 1425                       | 3.14                     |            |
| Camena     | XS           | 43.5                        | 49.3                       | 10                          | 71.0               | 73.5               | 41.0                        | 95.1              | 67.7                        | 54.6                    | 5.0             | 45.0              | 1300                       | 2.86                     | 650C       |
|            | S            | 45.5                        | 51.5                       | 13.5                        | 71.5               | 73.5               | 41.0                        | 97.0              | 70.3                        | 56.6                    | 5.0             | 45.0              | 1330                       | 2.93                     |            |
|            | M            | 47.5                        | 52.5                       | 11.4                        | 72.0               | 73.0               | 42.0                        | 97.7              | 72.9                        | 56.8                    | 7.3             | 50.0              | 1340                       | 2.95                     | 700C       |
|            | L            | 49.5                        | 54.5                       | 14.5                        | 73.0               | 73.0               | 42.0                        | 98.3              | 75.6                        | 57.4                    | 7.3             | 45.0              | 1390                       | 3.06                     |            |
|            | XL           | 52                          | 55.5                       | 16.5                        | 73.0               | 73.0               | 42.0                        | 99.3              | 77.7                        | 58.4                    | 7.3             | 45.0              | 1440                       | 3.17                     |            |

Size specific tubing?  
What is it?

You will see this listed on some of our bikes. Size specific tubing is a method in which we ensure that the same ride quality that you have in a 55cm feels and works the same on a 47cm as well as a 63cm. With Merlin size specific tubing, each tube's wall thickness and diameter is selected to match the ride quality for the given frame size. This selection guarantees that the ride quality for a given bicycle will remain the same throughout the size range.

# WORKS CR

TIGHT | PRECISE | EFFICIENT

GEOMETRY BY *Tom Kellogg*



The Works CR is simply the best riding race bike we have ever made. Using Tom Kellogg's refined geometry, the Works CR offers a torsionally rigid front end to ensure precise handling. The stout 1" chainstays give the solid drive train a stunningly efficient ride. In designing and building this bike we wanted to maximize the ride quality of titanium. The Optimum race tuned, manipulated Merlin MTS2 size specific titanium tube set is Rigid but comfortable, Fast and efficient.

#### Component Sets Available

- Shimano Dura-Ace
- Shimano Ultegra
- Sram Force
- Campagnolo Record
- Chorus

# WORKS 4.0

PLUSH | PROVEN | DURABLE



The Works 4.0 is the culmination of intense research and testing to find the ultimate XC bike. Built around durable Merlin titanium MTS front triangle and matched with an ICT four bar link suspension system from Ellsworth are guaranteed a plush, proven ride quality. The Works 4.0 offers a performance partnership never seen in a titanium full suspension bicycle.



- The most energy-efficient suspension design in the world.
- ICT four-bar linkage technology provides up to 100% pedal power efficiency by aligning the instant center of the linkage of the chain torque line and continually tracking it throughout the range of travel.
- ICT allows pedal power to propel the rider forward without power loss, effectively avoiding the common suspension design flaw that divides pedal inputs into a wasteful combination of forward and vertical motions.
- The ICT-equipped 4.0 feature 12mm pivot axles and oversized bearings for superior pivot stability and lateral stiffness under power.

#### Component Sets Available

Shimano XT  
Shimano XTR

# WORKS XLM

LIGHT | QUICK | AGILE



The XLM is the definitive titanium hard tail racing bike. It boasts very light weight, but extremely quick acceleration due to the oversize tubing. The custom double butted MTS size specific titanium frame is the finest racing hard tail possible. Whether you are riding tight single track or open trail the XLM is perfectly balanced.

- Extralight Mountain.
- Designed for 80/100mm Fork.
- Merlins' original S-Bend chain stays (one of the most copied designs in cycling) provide solid power transfer.
- V-Brake option.

#### Component Sets Available

Shimano XT  
Shimano XTR

# 2006 Frame Geometry



| Model    | Size (cm) | Seat Tube Length (cm) | Top Tube Length (cm) | Head Tube Length (cm) | Head Tube Angle | Seat Tube Angle | Chainstay Length (cm) | Wheelbase (cm) | Standover Height (cm) | Front Center (cm) | BB Drop (cm) | Fork Rake (mm) | Frame Weight (grams) | Frame Weight (lbs) | Wheel Size |
|----------|-----------|-----------------------|----------------------|-----------------------|-----------------|-----------------|-----------------------|----------------|-----------------------|-------------------|--------------|----------------|----------------------|--------------------|------------|
| Works CR | XS        | 46                    | 53.3                 | 11                    | 72.5            | 74.0            | 41.5                  | 98.5           | 71.7                  | 58.1              | 7.2          | 50.0           | 1085                 | 2.39               | 700C       |
|          | S         | 47.5                  | 54.5                 | 11                    | 73.0            | 74.0            | 41.0                  | 98.4           | 74.3                  | 58.4              | 7.0          | 45.0           | 1115                 | 2.46               |            |
|          | M         | 49                    | 55.5                 | 12.5                  | 73.5            | 73.5            | 41.0                  | 98.3           | 75.0                  | 58.3              | 7.0          | 43.0           | 1160                 | 2.56               |            |
|          | ML        | 51                    | 56.5                 | 14.4                  | 73.5            | 73.0            | 41.0                  | 98.8           | 75.7                  | 58.8              | 7.0          | 43.0           | 1190                 | 2.62               |            |
|          | L         | 53                    | 57.5                 | 16                    | 74.0            | 73.0            | 41.0                  | 99.0           | 76.5                  | 59.0              | 7.0          | 40.0           | 1275                 | 2.81               |            |
|          | XL        | 55                    | 58.5                 | 18.3                  | 74.0            | 72.5            | 41.6                  | 100.2          | 80.0                  | 59.5              | 6.7          | 40.0           | 1365                 | 3.01               |            |

| Model | Size/Seat Tube Length (in) | Top Tube Length (in) | Head Tube Length (in) | Head Tube Angle | Seat Tube Angle | Chainstay Length (in) | Wheelbase (in) | Standover Height (in) | .BB Drop (in) | Fork Rake (in) | Frame Weight (grams) | Frame Weight (lbs) |
|-------|----------------------------|----------------------|-----------------------|-----------------|-----------------|-----------------------|----------------|-----------------------|---------------|----------------|----------------------|--------------------|
|-------|----------------------------|----------------------|-----------------------|-----------------|-----------------|-----------------------|----------------|-----------------------|---------------|----------------|----------------------|--------------------|

Works XLM

|       |      |     |      |      |      |      |      |     |     |      |      |
|-------|------|-----|------|------|------|------|------|-----|-----|------|------|
| 15.00 | 22.2 | 4.2 | 71   | 73.5 | 16.8 | 40.8 | 27.9 | 1.4 | 1.5 | 1230 | 2.71 |
| 16.25 | 22.8 | 4.4 | 71   | 73.5 | 16.8 | 41.5 | 28.9 | 1.3 | 1.5 | 1375 | 3.03 |
| 17.50 | 23.4 | 4.7 | 71   | 73.0 | 16.8 | 41.9 | 29.8 | 1.2 | 1.5 | 1400 | 3.08 |
| 18.75 | 24   | 5.3 | 71   | 72.5 | 16.8 | 42.4 | 30.9 | 1.2 | 1.5 | 1545 | 3.40 |
| 20.00 | 24.7 | 6.3 | 71.5 | 72.5 | 16.8 | 42.9 | 32.1 | 1.2 | 1.5 | 1570 | 3.46 |

Works 4.0

|       |       |      |      |    |      |       |      |     |     |      |      |
|-------|-------|------|------|----|------|-------|------|-----|-----|------|------|
| 15.00 | 22    | 4    | 70.5 | 73 | 42.5 | 105.4 | 30.0 | 0.0 | 1.5 | 2375 | 5.23 |
| 16.25 | 22.5  | 4    | 70.5 | 73 | 42.5 | 106.6 | 30.0 | 0.0 | 1.5 | 2392 | 5.27 |
| 17.50 | 23    | 4    | 70.5 | 73 | 42.5 | 107.9 | 30.2 | 0.0 | 1.5 | 2442 | 5.38 |
| 18.75 | 23.75 | 4.38 | 70.5 | 73 | 42.5 | 109.2 | 30.7 | 0.0 | 1.5 | 2497 | 5.50 |
| 20.00 | 24.5  | 4.75 | 70.5 | 73 | 42.5 | 111.7 | 31.0 | 0.0 | 1.5 | 2560 | 5.64 |

Size specific tubing?  
What is it?

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