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**BH**  
ULTRALIGHT BICYCLES  
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## BH Ultralight: You will become an Ultra fan as soon as you see it

Do you know why we have named our new BH bike "Ultralight"? Because it is lighter and stiffer than any other bikes in the market. It is the Ultralight amongst Ultralight bikes. Just imagine its performance...

"Ultra": going beyond what is usual or ordinary; excessive. At BH, we have gone beyond, and we are proud to introduce a new bike design that shatters all previous performance benchmarks for weight and stiffness. The frame of the Ultralight weighs as little as 747g (medium size, painted). You will become an ultra fan of our new high-end road bike as soon as you see it.

### Setting standards

Besides, the Ultralight is the **first BH bike to feature the new BB386EVO bottom bracket system**, developed by BH Bikes and FSA. With the introduction of this bottom bracket system, combined with new precision carbon moulding techniques, cutting-edge materials, and avant-garde design, BH Bikes has developed a groundbreaking new bike that sets a new standard in the bicycle industry.

"The **purpose** of this project was to develop a model that was **lighter than the G5** and thus earn a place for ourselves in the production **ultralight bicycle** segment while improving the traditional handicap of this type of vehicles: **stiffness**," remarks the Head of the BH Road Bicycle Department, Roberto López. "To attain this goal, we've worked with FSA, our perfect mate in this adventure, since **FSA** is the world's leading bottom bracket manufacturer and has experience working with carbon parts. Together, we've developed the new BB386EVO system, an oversized bottom bracket which allows for wider tubes and increased stiffness while retaining the same weight," Mr López adds.

The BB386EVO allows for an **all-carbon bottom bracket shell, 86.5mm in width x 46mm in diameter**, maximising the amount of area the frame manufacturers have to work with, and increasing stiffness and strength. The new system is optimised for the new FSA K-Force Light BB386 and SLK Light BB386 carbon spindle cranks. What is special about the new design is the curve in the crank which, with a longer spindle, keeps the distance between the pedals (Q-factor) similar to that in any other crank.

### Even stiffer

The Ultralight frame means, without a doubt, one of the greatest achievements by BH in the field of racing frames, as we have **increased torsional stiffness and rear end stiffness by 166% and 125%**, respectively. In addition, maximised tube sizing, the 1.5" head tube, and the seat tube section contribute to the Ultralight's lateral stiffness.

The Ultralight's integrated **full carbon** front derailleur mount keeps weight low and stiffness high when replacing chainrings. The derailleur hanger is **forged in 7075 aluminium**, developed through extensive finite element analysis studies used to determine the stiffest structure possible under heavy shifting loads.

The full slotted **monocoque carbon** cable guides **on the down tube** reduce weight and make maintenance easier. The unique cable guide **allows cable to be routed tra-**

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ditionally or crossed at the guide to provide the bike a cleaner cable routing solution around the head tube.

#### The lightest production bike

As with the frame, the Ultralight's fork was developed using cutting-edge composite moulding techniques and material technologies resulting in a **fork weight under 300 grams out of the mould, which successfully meets the safety requirements and test methods in the European standard EN 14781.**

The Ultralight fork features an **integrated crown race** to further eliminate the need for heavy aluminium parts in the frame to house the bearing and optimises the strength and stiffness of the transition from the steer tube to the fork crown.

"We've changed the way we make the fork and the carbon construction. Using the same mould of the G5, we've made a fork that's lighter than its predecessor by 40g," explains Mr López, underscoring the bicycle's final weight: 4,800kg when fully assembled. **"We've made the lightest production bicycle in the market,"** he says proudly.

#### Nicola Spirig: "You feel the bike pushes you forward"

"Our lab tests show that **the Ultralight's average stiffness is 35% higher than the G5's.** Riders of pro teams Caja Rural and Burgos 2016 are using the new frame, and they sound very enthusiastic about it. Nicola Spirig, winner of the Triathlon World Cup in Madrid, says the new bike has an incredible ride quality and delivers great performance in climbs and sprints. She feels the bike pushes her forward. This is the result of frame stiffness and the geometry of the rear triangle, with 400mm chain stays. When we unveiled this model at Sea Otter Classic, the bicycling festival held in the US, both the public and the media found it awesome," Mr López states.

As you can see, the new Ultralight is BH's best cared for model, a frame of superior quality and unrivalled performance.



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