



DEAN  **FAST**

REDEFINING AERODYNAMICS

Aerobars, disc wheels and tear dropped tubes are nothing new to aero bikes. For over 10 years brands have been minimizing the aerodynamic footprint using these technologies. At Ridley we want to take state of the art to a new level. At Ridley we start where others stop.

By combining our three patented FAST technologies (F-Brake™, F-Surface™, F-Splitfork™) to an all-new integrated stem/top tube frame, we have done just that. The result is the all-new Dean FAST. This bike tackles the major issues that cause drag and restrain the speed a bike can obtain. It also manages and optimizes every element of airflow not only going through the wind but also how it interacts with the components and frame. Read on for an in-depth look on what makes the Dean FAST faster.





LESS DRAG = MORE SPEED



 F-brake

 F-surface

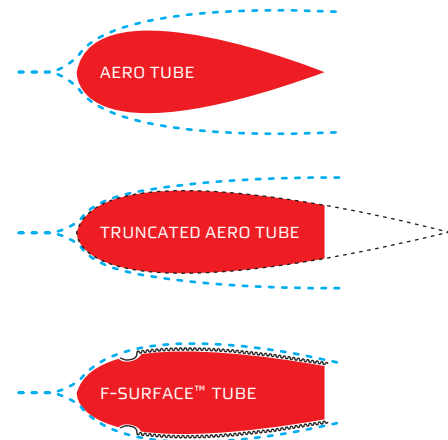
 F-splitfork

Thanks to the revolutionary integration of our patented FAST innovations into the new Dean FAST, air moves smoothly and with less turbulence than ever before. Less turbulence means less aerodynamic drag, giving faster speeds.

The F-Brake™ is the first truly integrated brake and is an integral part of the frame. It combines superior braking power with an absolute absence of speed reducing turbulence. In the new Dean FAST we advance the technology further with an all internal cable routing allowing laminar air flow past the entire braking mechanism. So no more external cables that cause turbulence.

The F-Surface™ technology was taken to a higher level by introducing grooves that are integrated in the down tube and seat tube of the Dean FAST. These grooves reduce drag by guiding air closer to the frame.

The F-Splitfork™ completes the FAST technological package. Wheels also have to move through the wind and the F-Splitfork™ technology channels and guides the negative flow created by the wheels away from the spokes allowing the wheel to rotate with less drag. Thanks to the integration of the F-Brake™, the foil runs the full height of the wheel. The fork on the new Dean FAST is also sculpted to seamlessly integrate with the flow of the frame.



F-BRAKE™, F-SURFACE™ AND F-SPLITFORK™ ARE PATENTED RIDLEY FAST-TECHNOLOGIES.



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DETAILS ARE THE DIFFERENCE

While the FAST technologies are critical to making the fastest bikes in the world, we realize that every detail of aerodynamics and user friendliness needs to be addressed to make it the best bike on the planet. The new Dean FAST pays attention to these details by incorporating following features.

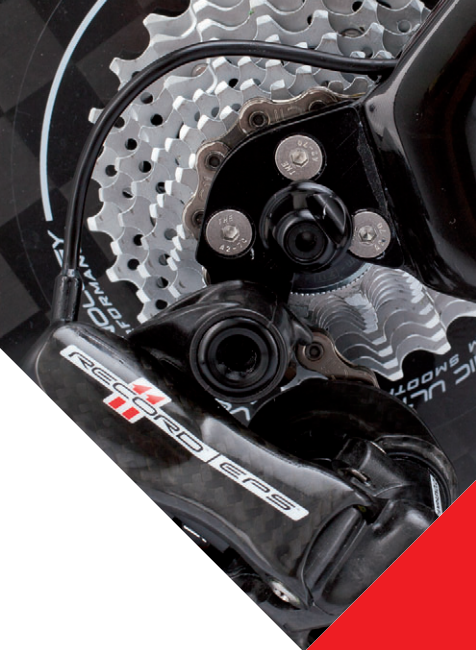
- Ready for integration with all electronic shifting systems or just behind the stem (Campagnolo).
- A wider rear triangle allows easy fitment of wider rims and tires.
- Integrated cockpit: the stem is integrated into the top tube and has internal cabling. Ridley is currently developing custom made handlebars for the Dean FAST allowing full integration of all cables.
- Cutouts that make the distance between the frame and the wheels as narrow as possible reducing turbulence.
- Optimized tube shapes for superior aerodynamic performance at all yaw angles.
- An adjustable seat post with large for aft adjustment at the saddle rail allowing optimal seating position over the BB shell.
- Integrated seat post clamp that firmly holds the seat post in place without poking out in to the wind.







REPLACEABLE VERTICAL DROPOUTS





VERTICAL DROPOUTS

Horizontal dropouts have become a standard option in aero bikes because they help position the wheel closer to the frame. However: it is not easy to center and position a wheel via horizontal dropouts, and changing the wheel takes quite some time.

On the Dean FAST we opted for replaceable vertical dropouts which make it simple to change and center the rear wheel while keeping the optimal position behind the seat tube. These dropouts can be changed according to tire width so that the gap between the top of the tire and the back of the seat tube is minimized without having to struggle with sliding the wheel back and forth in the dropout.



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THE NEAR FUTURE: A NEW TRIATHLON BIKE

The FAST concept technologies of the Dean FAST will be translated into a new triathlon bike which Ridley will launch in the fall of 2013. This triathlon bike will have the following additional features:

- Custom stack & reach: no matter what size the rider, top tube and stem will always be in a perfect aerodynamic straight line.
- Custom handlebars allowing each rider to be in his or her favorite position without adding more than 4 centimeters of spacers under the arm rests.
- The full elimination of all external cabling in the cockpit.

The result? The biggest revolution in triathlon of this millennium!

More details will be unveiled later this year.





A large, stylized white arrow graphic pointing to the right, composed of several parallel lines. Three of these lines are highlighted in red, creating a sense of motion and speed.

BE  **FAST** **2**

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