

A black and white photograph of a cyclist riding a road bike on a paved road that stretches into the distance. The road is flanked by rocky hillsides and sparse trees. The atmosphere is misty or foggy, creating a sense of depth and isolation. The cyclist is positioned in the center of the frame, riding away from the viewer.

THE ALL NEW

ÉMONDA

MAKING THE LIGHTEST LIGHTER



THE ALL-NEW ÉMONDA ALR
Q U E R E R E S
P O D E R

It's a quote that appears on the top tube of Alberto Contador's Émonda. It means 'where there is a will there's a way', and it's an attitude that not only drives Alberto in his pursuit of racing glory - it was the attitude that Trek adopted in revamping the world's lightest production road bike.

They said we couldn't make the bike lighter. They said disc brakes had no place on an ultralight race bike. We said 'querer es poder'. Introducing the all-new Émonda: lighter, more efficient and more compliant than ever before.





ÉMONDA
SLR 8 DISC







A CHALLENGE WORTH CONQUERING

It's true that improving something that's already spectacular is more difficult than starting from scratch. How do you take the world's lightest, best-handling race bike and make it even better? That was the challenge our road design and engineering team was faced with in creating the new Émonda.

Their response did not disappoint. In a sport where even seemingly imperceptible advantages are painstakingly sought out, Émonda goes beyond marginal gains. By refining our existing production processes and introducing entirely new innovations, the new bike delivers a difference in ride quality and performance that riders will actually feel on the road. Without a doubt, Émonda climbs, sprints, corners and descends better than any bike that Trek has ever made. And it's now available with the all-weather, go-anywhere versatility of disc brakes.

EVERY REVOLUTION NEEDS A HERO

Émonda Disc models redefine the experience of riding an ultralight race bike. With additional tyre clearance, increased stopping power, better braking modulation and consistent performance in all conditions, Émonda Disc is much more than a racing bike. Flat mount disc brakes are more elegant, lighter, smaller and cleaner than traditional disc brakes, making them right at home on Émonda. By opening up the world of gravel and adventure riding to those who prefer the feel of classic race bike, Émonda Disc revolutionises expectations of what a dedicated road bike can and should be.



ÉMONDA
SLR 9





TREK

aeolus 3 TLR



ÉMONDA SLR

THE PINNACLE OF
LIGHTWEIGHT RACE
PERFORMANCE

Émonda SLR is back to challenge the best on the climbs, corners and descents of cycling's biggest races, and your local crit. With an improved carbon lay-up and years of stringent testing from the pros of Trek-Segafredo, Émonda SLR continues its reign as the world's lightest production road bike.

**MORE THAN MARGINAL GAINS.
MAXIMUM RESULTS THAT YOU FEEL ON THE ROAD.**

Weight in Grams (No Hardware)	690	640	665
Trek Full Frame Stiffness (Lower = Stiffer)	4.00	3.55	3.65
Tour Head Tube Stiffness (Nm/Deg)(Higher=Stiffer)	86.5	88	88
Tour BB Stiffness (N/MM)(Higher=Stiffer)	52	56	55
Vertical compliance (N/MM)	162	165	165

**PREVIOUS
ÉMONDA SLR**
(56 cm H1)

**NEW
ÉMONDA SLR**
(56 cm H1)

**NEW
ÉMONDA SLR DISC**
(56 cm H1)

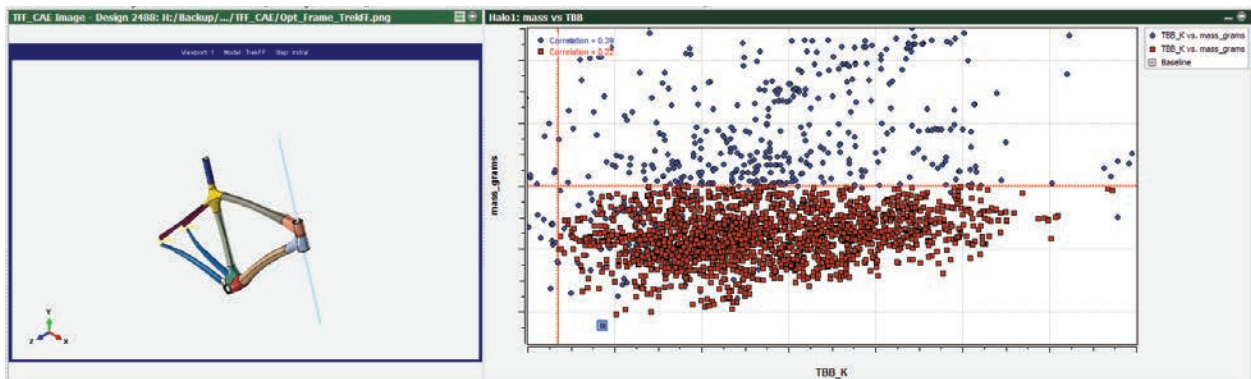


Image shows the HEEDS true multi-objective parameterised optimisation output summary. The top right portion of the image shows both feasible (red) and infeasible (blue) designs that have been evaluated. The pareto front of this chart is the trade-off between pedalling stiffness (Tour BB stiffness) and frame mass. You can see that many thousands of designs have been evaluated.

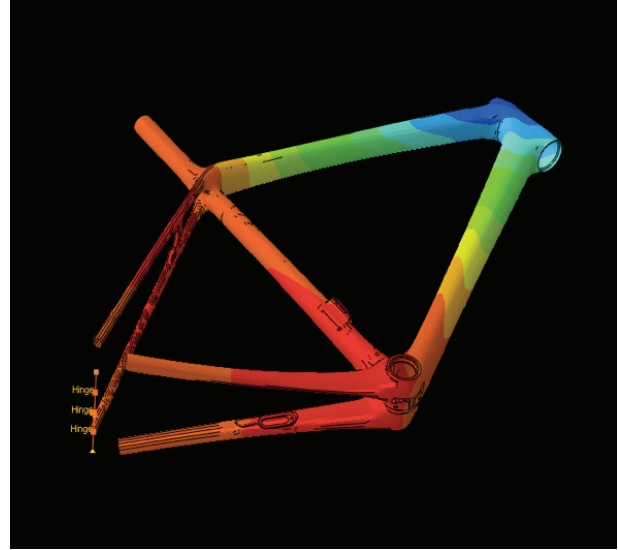
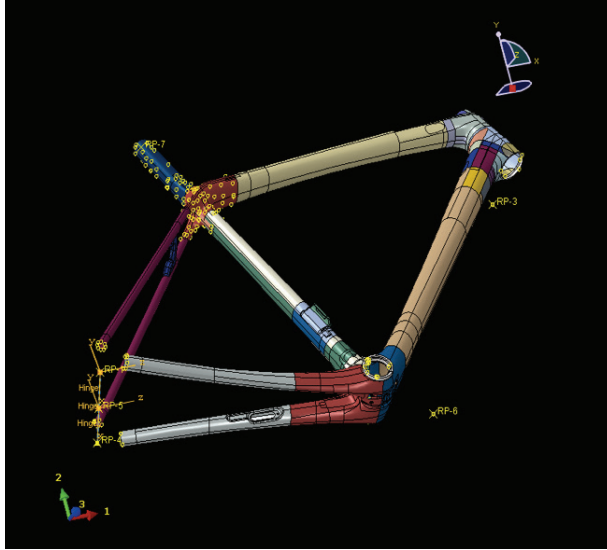
Size-Specific Ride-Tuned performance

Our R&D team went searching for the holy grail of ride performance by tirelessly optimising, prototyping and testing new frame designs and carbon lay-ups. Using advanced analysis techniques including parameterised optimisation, finite element analysis, and strain gauge and accelerometer instrumentation, the team focused on reducing weight, increasing stiffness and improving compliance. But increasing stiffness alone does not improve the handling characteristics of a road bike.

The placement and construction of the composite layers have a massive effect on ride quality, and without the information gleaned from extensive analysis, engineers are left to guesswork and hypotheticals. We prefer clear test results that show marked improvements.

Testing in the lab provided the numbers that our engineers were looking for, but performance and ride feel out on the road is what really matters. That's why the pro riders of Trek-Segafredo evaluated prototype after prototype to confirm that the story the numbers told held true on even the most demanding rides.

All of this testing and development didn't happen over night. It wasn't simple or easy, but focusing on each strand of carbon and every minute detail of frame design delivered a line of bikes with frames that are the absolute lightest in their class, with size-specific carbon layups that ensure consistent ride feel across all frame sizes.



The image shows composite section property distribution within the Abaqus Finite Element Model (FEM). Each colour represents a different unique composite ply stack sequence within the frame. The right image shows the deflected shape of the Émonda frame during high-speed descending peak loading. Note that loads, boundary conditions and load fixtures have been suppressed for image clarity and due to the proprietary nature of the load case and its set-up.

OCV Carbon

Nobody knows carbon like Trek. More than 25 years of experience refining our carbon production process has delivered a new 700 Series OCLV Carbon lay-up that significantly reduces Émonda's weight while simultaneously increasing stiffness. The result is a bike that's faster off the line, more responsive in the corners, and doesn't provide excuses on even the most leg-shattering climbs. Gram for gram, we will put the Émonda SLR up against any other bike on the road.

Control Freak Cable Management

Control Freak is the lightest, quietest, most versatile cable management system. It allows any combination of shift and brake housing to be routed through the frame for clean aesthetics and an easily customised set-up.

Flat Mount Disc Brakes

Flat Mount disc brakes are more elegant, lighter, smaller and cleaner than traditional disc brakes, providing superior performance and stopping power under harsh conditions.

Bontrager Speed Stop Pro brakes

For those who ride at the limit, brakes are the most important component besides the bike's actual frame. In addition to the all-new disc models, Émonda SLR is available with all-new Bontrager Speed Stop Pro rim brakes. These fully-tunable, direct-mount brakes weigh in at a strikingly low 95 g. With hollow arms and Ti hardware, this Trek-Bontrager collaboration also increases tyre clearance so that all riders can enjoy the increased traction and comfort that comes with running wider tyres.

Blendr Integration

Blendr seamlessly mounts Bontrager Trip computers, Bontrager Ion lights and Garmin computers directly to the handlebars, keeping everything zip tie-free and in its place.

DuoTrap S

DuoTrap S keeps your sensor and magnet in the right place without the use of zip ties or fear of sensors moving around and losing contact mid-ride. This speed and cadence sensor is integrated directly into the chainstay for clean aesthetics, and differs from our DuoTrap sensor by offering Bluetooth and ANT+ connectivity.

Lifetime warranty

The lightest road bike line in the world is backed by the cycling world's best warranty.





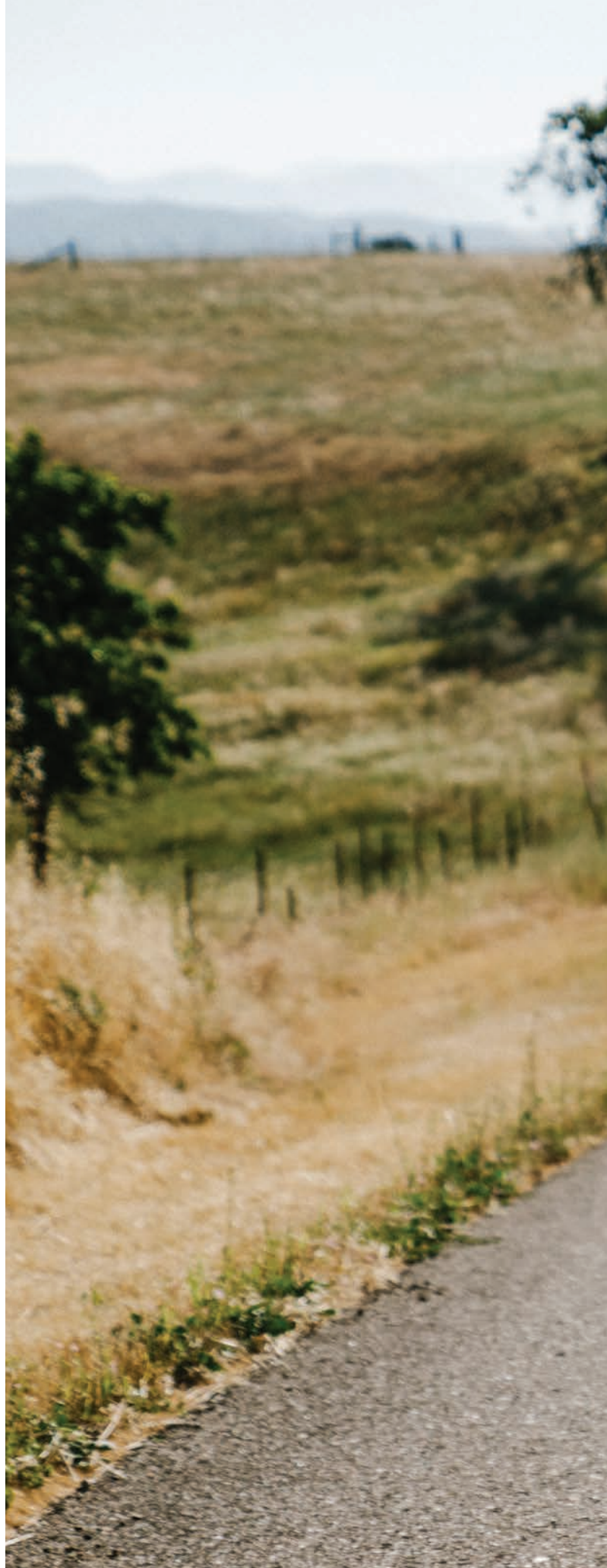


NEW ÉMONDA SLR SUMMARY

- 700 Series OCLV Carbon frame
- Émonda SLR frame 640 g
- Émonda SLR Disc frame 665 g
- Émonda SLR fork 313 g
- Émonda SLR Disc fork 350 g
- Increased stiffness
- Improved ride quality
- 28c tyre clearance
- Control Freak internal cable routing
- Ride-Tuned seat mast
- BB90
- Front and rear carbon dropouts
- Front carbon derailleur hanger
- E2 tapered head tube
- Carbon strike guard
- DuoTrap S
- H1 and H2 fit available
- Customisable through Project One

NEW ÉMONDA SL SUMMARY

- 500 Series OCLV Carbon frame
- Émonda SL frame 1,091 g
- Émonda SL Disc frame 1,149 g
- Émonda SL fork 313 g
- Émonda SL Disc fork 350 g
- Émonda SL 5 fork 436 g
- Increased stiffness
- Increased vertical compliance
- Improved ride quality
- 28c tyre clearance
- Ride-Tuned seat mast
- BB90
- Control Freak internal cable routing
- E2 tapered head tube
- Carbon strike guard
- DuoTrap S
- H2 fit
- Women-Specific Model (Émonda SL 5 Women's)







PROJECT ONE

BUILD YOUR OWN

Don't ride anyone else's bike.
Pick your paint, pick your parts and build your
very own Émonda SLR in Project One.

trekbikes.com/projectone



