
ALL THE ROADS YOU WILL CONQUER
KRYPTON GF CS
ARGON 18

OUR MOST ENGINEERED BIKE TO DATE

KRYPTON CS | GF

ALL THE ROADS YOU WILL CONQUER

WE PUSH OURSELVES HARDER SO THAT YOU CAN RIDE FURTHER

After years of producing high-performance race and triathlon bikes, we have created a new line of endurance bikes designed to thrill all serious cyclists, including the most demanding endurance riders.

We used our extensive knowledge of race bike geometry to craft an innovative new mold specifically for Krypton line. The new layout offers a stable and comfortable ride with a relaxed rider position while keeping true to our performance heritage.

From tube shapes to carbon layups, both frames and forks were designed and optimized for better vibration absorption, aerodynamics, and pedaling efficiency, guaranteeing performance and comfort on even the longest of rides on the roughest of roads.

Both **Krypton CS** and **GF** are ideal for Gran Fondos, allowing riders tackle formidable climbs, vertiginous descents, and everything in between. They are perfectly suited for riders of all levels who seek a performance bike without the comfort sacrifices of pure race geometry.

ARGON 18

ENDURANCE VS RACE GEOMETRY

We used our extensive history of developing race bikes such as the Gallium Pro to design the geometry for the new Krypton. The result is a bike with an optimal balance of comfort and performance.

We didn't simply change the existing race geometry for this new line, instead, we carried over key aspects and constructed something completely unique.

* MEDIUM VS MEDIUM

OPTIMAL FIT OPTION
The 15 mm center cap of our 3D system offers the optimal riding position with a more relaxed fit than our traditional race bikes. The alternative 3D options (0 mm and 30 mm) allow riders the choice of a more aggressive or an even more relax position. As always, all frame sizes are fine-tuned to optimize the rider's position.

HANDLING
We increased the overall stability of the bike by giving it a slacker head-tube, with the slightly increased trail of endurance geometry to balance its high-speed stability and racy feel.

The overall result: bikes with an unequaled level of comfort and stability that will perform superbly on the longest rides, whatever the road surface.

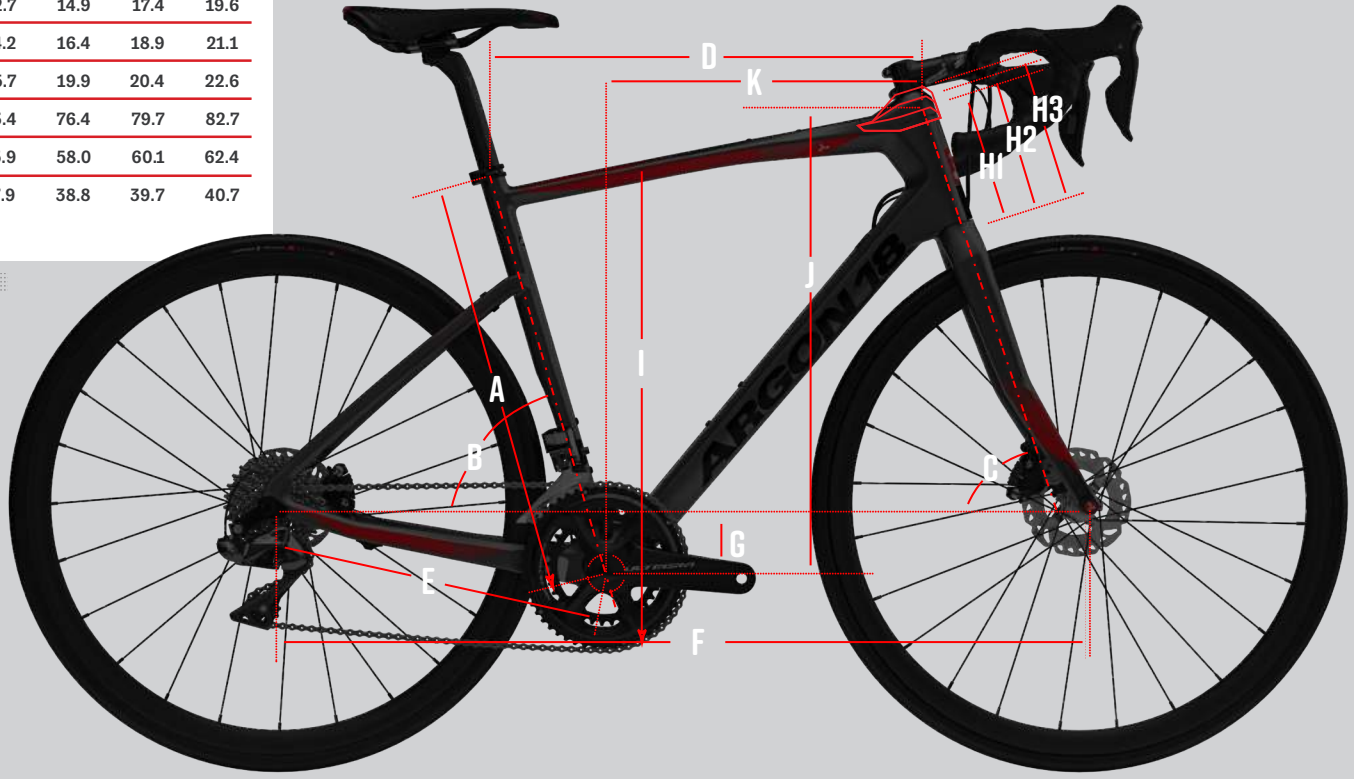
BB DROP REVISITED
For increased stability, we reworked our bottom bracket drop to optimally suspend the rider within the two wheels creating a low centre of gravity. We also wanted to provide added stand over clearance for smaller riders.

WHEELBASE AND FORK RAKE
The new endurance line was designed with a longer wheelbase, which offers more flex between the axles, thus dampening road obstacles. However, it is shorter than the average endurance bike so it will still be reactive and agile. Additionally, we increased the fork rake or offset for a more comfortable front-end.

THE STORY IN NUMBERS

SIZE* CLASSIC		XXS 44-46	XS 47-50	S 51-53	M 54-56	L 57-59	XL 60-62
A	cm	42.0	45.0	48.5	52.0	55.5	59.0
B	deg	75.5	74.9	74.3	73.7	73.1	72.5
C	deg	70.3	71.3	72.0	72.0	72.0	72.5
D	cm	49.6	51.6	53.7	55.8	58.0	60.4
E	cm	41.7	41.7	42.0	42.0	42.0	42.0
F	cm	98.1	98.9	99.7	101.3	103.0	104.3
G	cm	8.0	8.0	7.8	7.8	7.5	7.5
H1	cm	9.1	10.8	12.7	14.9	17.4	19.6
H2	cm	10.6	12.3	14.2	16.4	18.9	21.1
H3	cm	12.1	13.8	15.7	19.9	20.4	22.6
I	cm	67.3	70.0	73.4	76.4	79.7	82.7
J	cm	51.9	53.9	55.9	58.0	60.1	62.4
K	cm	35.9	36.9	37.9	38.8	39.7	40.7

* Sloping Top Tube



"We instrumented a bike with strain gauges and accelerometers in order to characterize road induced vibrations transmitted to the cyclist during a typical ride. The measured solicitations were then reproduced on a vibration test bench that allows to quickly and reproductively test different frame, fork and wheels configurations. From this, we were able to compare the vibration power transmitted to the cyclist with the different configurations tested. Based on this information, the shape and carbon lay-up of the frame were modified in order to get the best comfort while maintaining good lateral stiffness for better pedaling efficiency."

JOFFREY RENAUD *COMPOSITES SPECIALIST* ***ARGON 18***

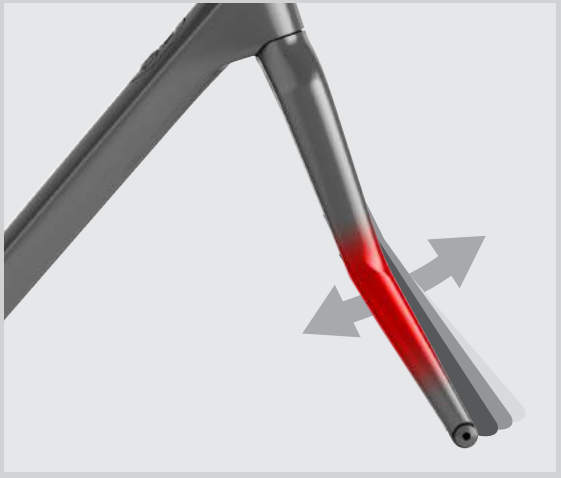
T·C·S [TOPOLOGICAL COMPLIANCE SYSTEM]

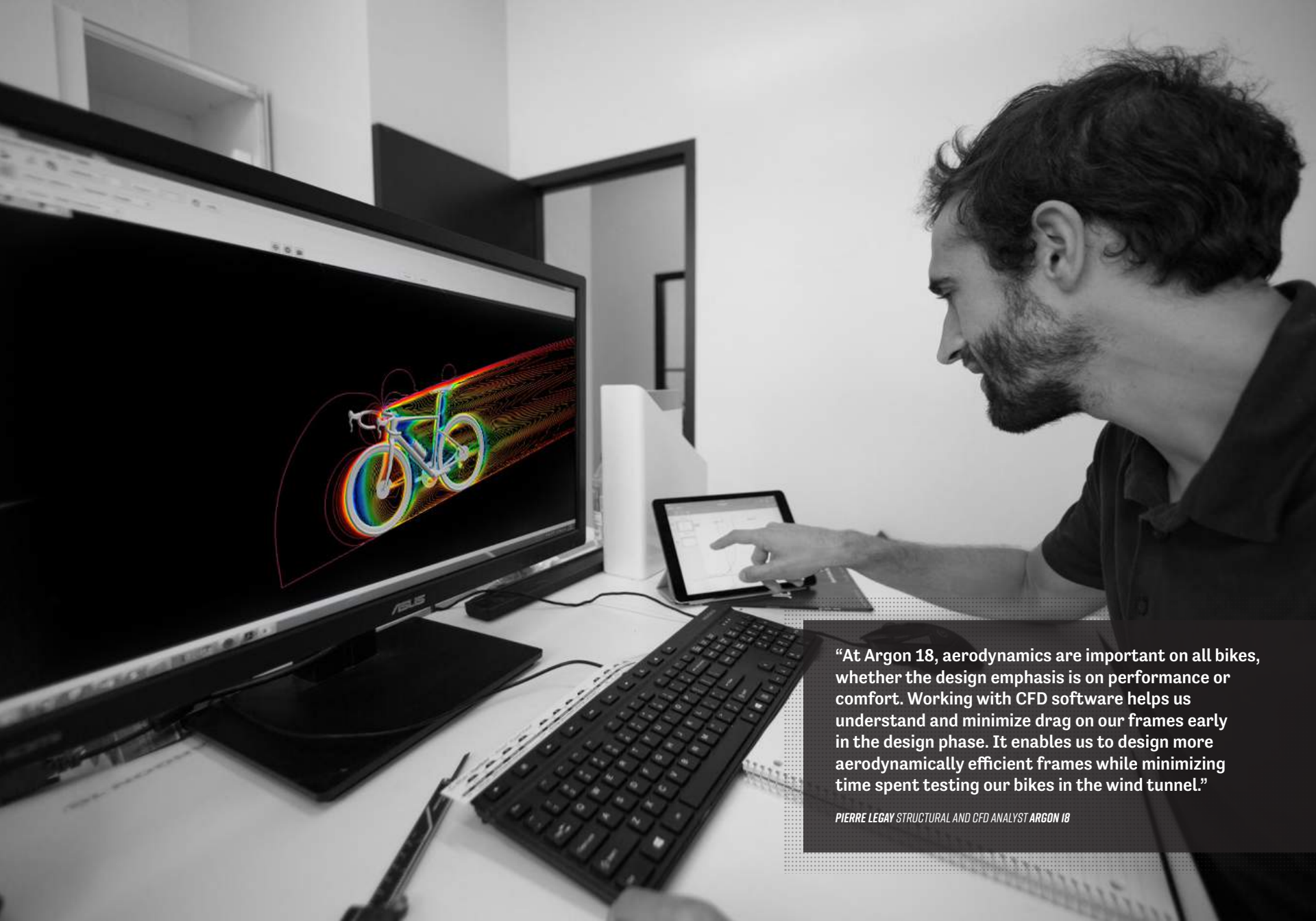
To achieve the optimal balance of comfort and performance from our endurance line, we needed a great geometry. In conjunction with the best geometry, we also needed perfect frame topology and carbon lay-up.

Through extensive research and analysis of stiffness, resistance, and aerodynamics using FEA and CFD software, we set out to design frames and forks that offer exceptional vertical compliance and react positively to road-induced vibrations. At the same time, they needed to remain impervious to lateral movement, thus ensuring maximum pedaling efficiency for optimal performance.

Our concept **Topological Compliance System** (TPS), was validated by numerous iterations of frames and forks tested both on the road and in our research and development laboratory using proprietary vibration testing tools.

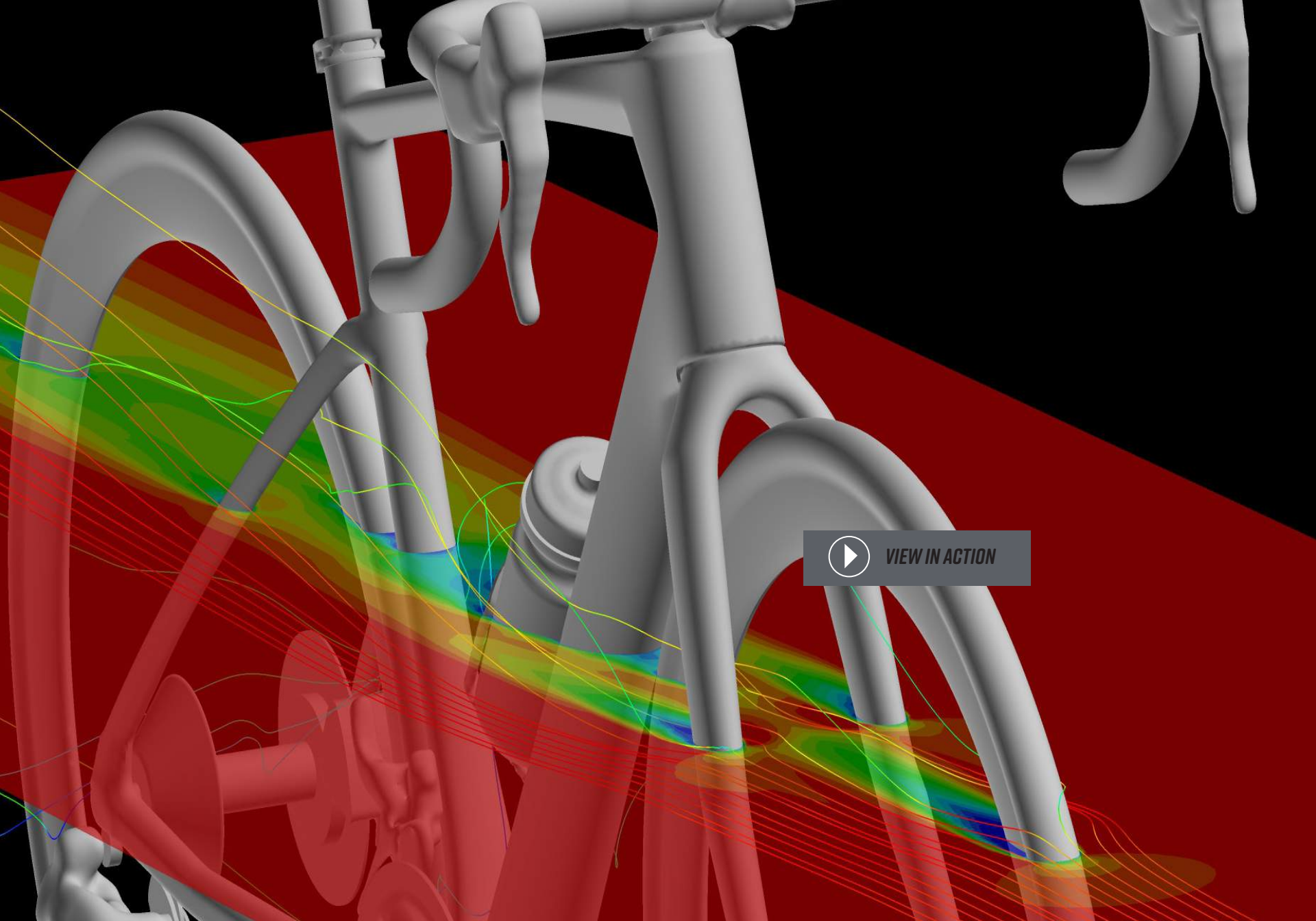
All the development and testing lead to the new **Krypton CS** and **Krypton GF** which are pinnacles of comfort and performance.





"At Argon 18, aerodynamics are important on all bikes, whether the design emphasis is on performance or comfort. Working with CFD software helps us understand and minimize drag on our frames early in the design phase. It enables us to design more aerodynamically efficient frames while minimizing time spent testing our bikes in the wind tunnel."

PIERRE LEGAY *STRUCTURAL AND CFD ANALYST* ***ARGON 18***


VIEW IN ACTION

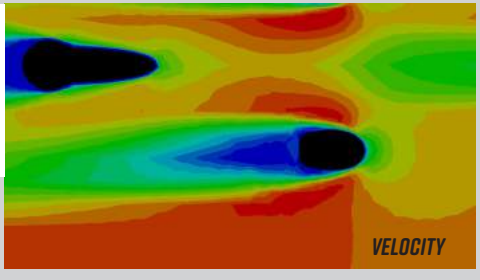
AERODYNAMICS

We designed the new frames to be comfortable without sacrificing performance thus aerodynamics were important in development.

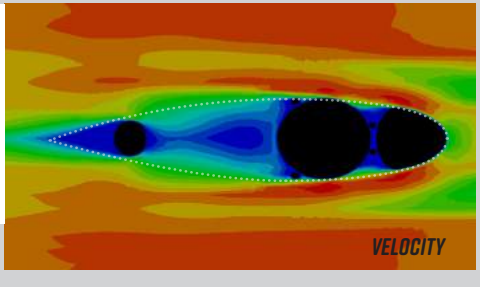
On any true performance bike, better aerodynamics help the rider save time and energy over longer distances. This becomes very important for any cyclist on an endurance bike who, after spending long hours riding, wants to get to the top of the last climb with aplomb.

Here again, our years of experience designing world class race, triathlon, and track bikes with serious aerodynamic credentials were put to good use.

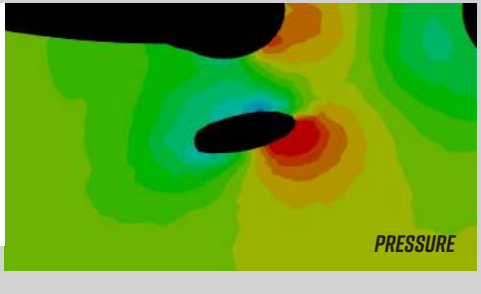
FORK
The new fork uses a truncated foil design that optimizes airflow off the leading edge of the bike. This is balanced with the **TCS** (Topological Compliance System).



DOWNTUBE
The starting point for the downtube shape was the nose of a foil.
We refined the design to maximize airflow between the downtube and the bottle and made adjustments that ensured aerodynamic efficiency across the entire length.



SEAT STAYS
For the new Kryptons we used an Asymmetric Hybrid Airfoil seat stay design or **AHF profile shape**. The design's shape is compliant with our TCS and generates a low-pressure system on the inside of the seat stay blade that smooths rough air caused by the wheels motion.



HIGH-PERFORMANCE

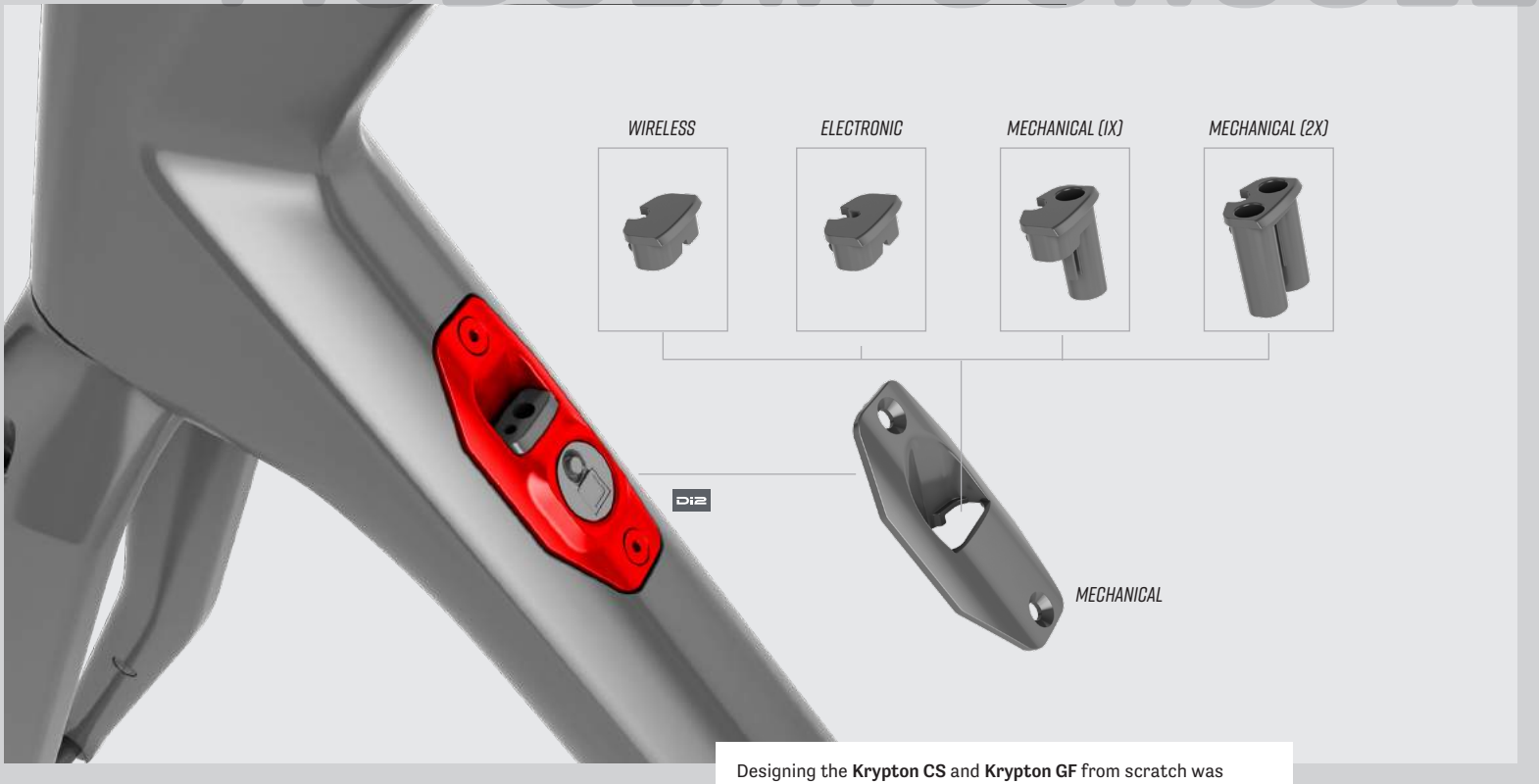
PEDALING EFFICIENCY

The key to pedaling efficiency is bottom bracket stiffness. Both the **Krypton CS** and **GF** were designed with bottom brackets that are as stiff as the Gallium Pro's, our benchmark performance bike. Consistent measurements show similar stiffness of the bottom bracket for all three bikes. **The new endurance bikes glide up any hill, anytime**.

HANDLING

High performance bikes like the Gallium Pro are known for their great handling. Substantial torsional stiffness at the headtube is directly responsible for these superior responsive qualities. Once again, we used the Gallium Pro as a benchmark for the design of the endurance bikes, ensuring that headtube deflection was consistent between all three frames. **Both Kryptons CS and GF handle the way a true Argon 18 should.**

MODULAR CONSOLE



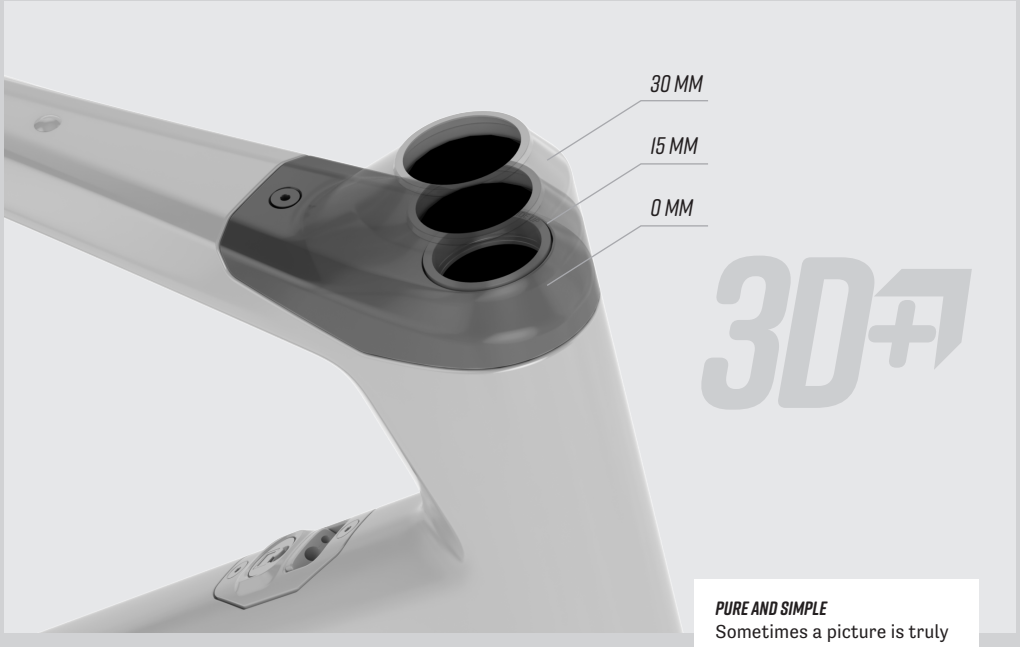
CLEAN
EFFICIENT
SMART

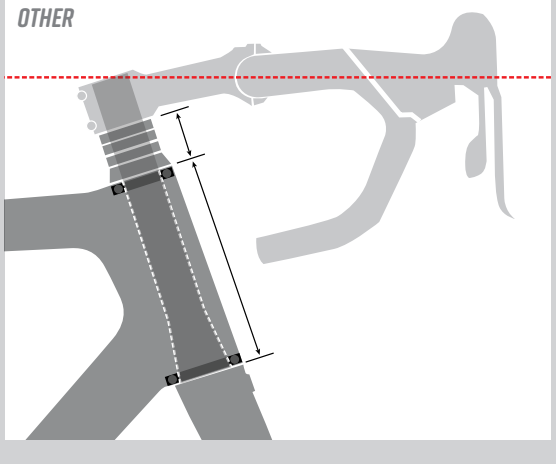
Designing the **Krypton CS** and **Krypton GF** from scratch was the perfect opportunity to develop a new cable routing system. We wanted a clean system that could integrate perfectly in the downtube, hide the Di2 junction box in the frame, and keep our frames compatible with all modern transmissions. Thus, we crafted a modular console which delivers on all three counts!

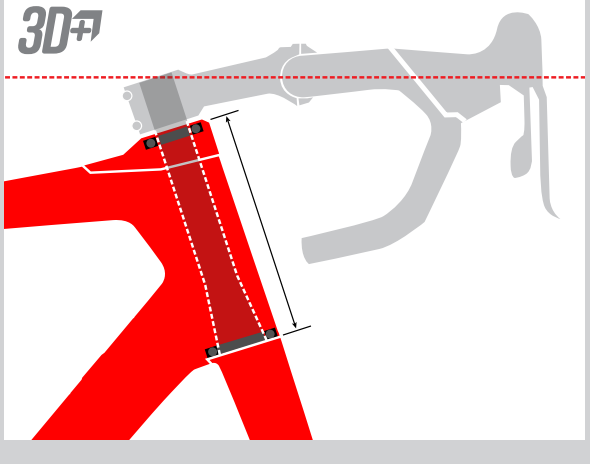
SEAMLESS INTEGRATION

An essential characteristic of the new frame designs is the new fully integrated 3DPLUS system. It delivers all the handling and stiffness benefits of the original 3D system in a streamlined package that merges seamlessly with the frame.

To provide maximum height adjustability it comes with three different cap options (0 mm, 15 mm and 30 mm).

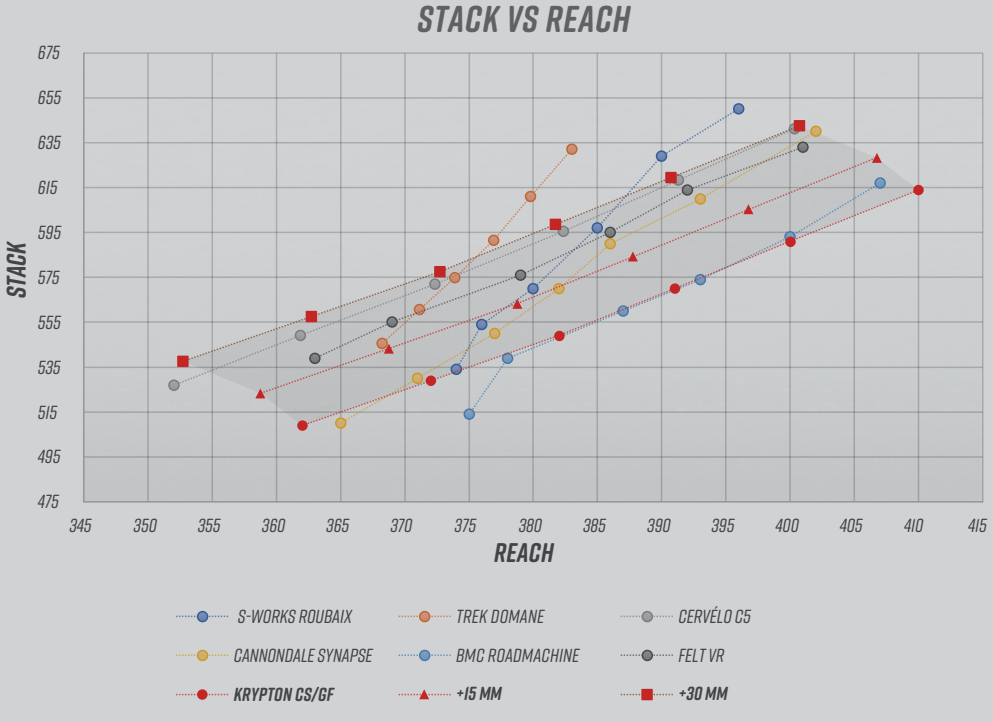






PURE AND SIMPLE
Sometimes a picture is truly worth a thousand words! Not only does the 3DPlus system provide better headtube height adjustability than most other bikes, its full integration into the frame preserves the handling qualities. This is not true for traditional headtubes stacked up with spacers.

ENDURANCE VS COMPETITION



To ensure that both Krypton CS and GF would accommodate all styles of endurance riders, regardless of cycling experience or flexibility, we optimized their fitting window.

> ***WITH THE 0 MM 3DPLUS CAP***, the bike will fit aggressive (similar to a BMC Roadmachine) and exhibit a fit more closely related to that of a relaxed race bike.

> ***WITH THE 30 MM CAP***, the bike is comfortably tall like the Cervelo C5.

> ***WITH THE 15 MM CAP***, the bike splits the field right down the middle.

When analysing the chart, it becomes apparent that the fitting range covered by our new endurance series is unequaled on the current market.

IT'S ALL IN THE DETAILS

What sets great bikes apart from the rest sometimes comes down to the smallest details and our endurance frames are no exception; we leave no detail unnoticed.

OPTIONAL DIRECT MOUNT REAR DERAILLEUR HANGER
For optimal installation of Shimano's new generation of direct mount style rear derailleurs (included with GF but also works on CS if purchased aftermarket).

INLAID CHAINSUCK GUARD AND CHAIN CATCHER
Why? Because, sometimes s!$# happens.
Note: the chain catcher comes in two lengths to accommodate different chainring sizes.

FLAT MOUNT DISC BRAKES
Standard version on both frames, for 140 and 160 mm rotors.

INNOVATIVE* SNAP-IN *BB CABLE GUIDE
Same technology used on Gallium Pro disc and Gallium Pro: light, efficient, and easy to install.

RIVETED FRONT DERAILLEUR HANGER
Stiff and light.

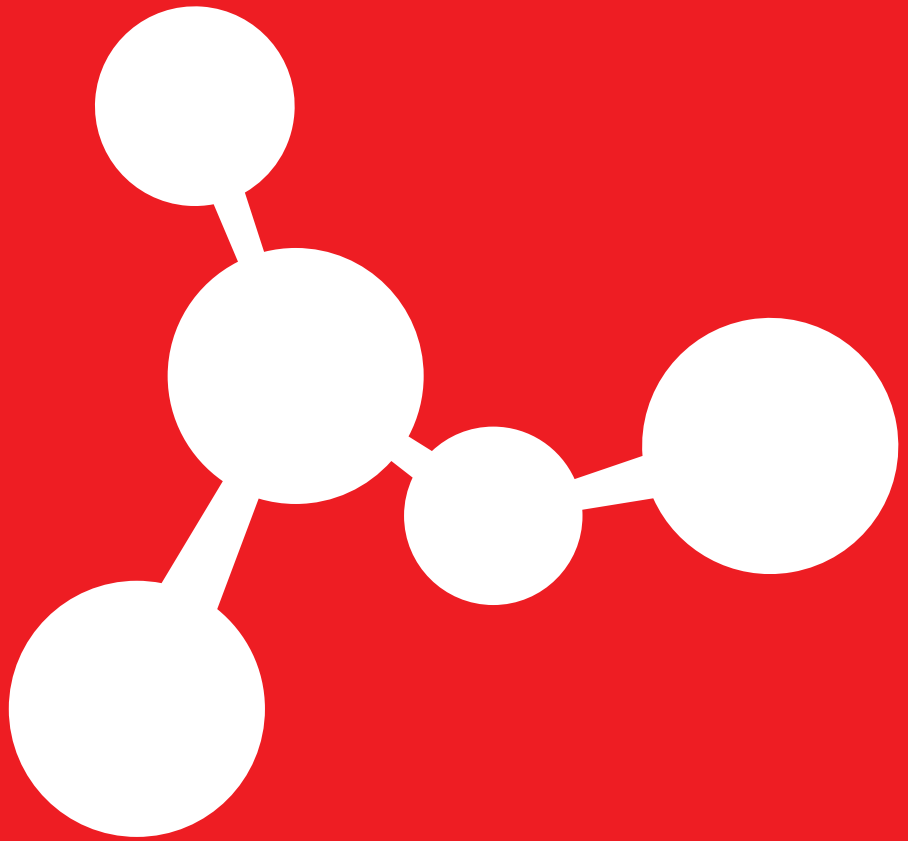
12 MM THRU-AXLES
Made for us by DT-Swiss.

GF

AVAILABLE IN DARK GREY MATTE
Shown here built with
Shimano Ultegra Di2

CS

AVAILABLE IN RED MATTE
Shown with Shimano Ultegra
Mechanical build



RIDE YOUR ELEMENT

ARGON 18