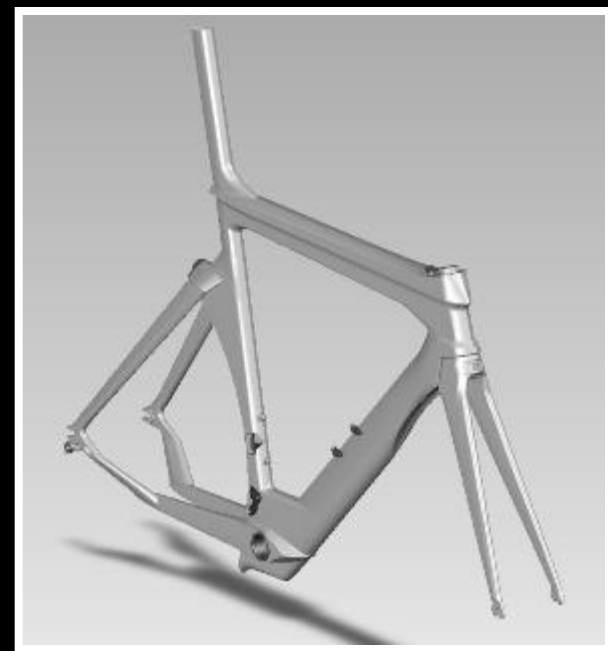




**2009**

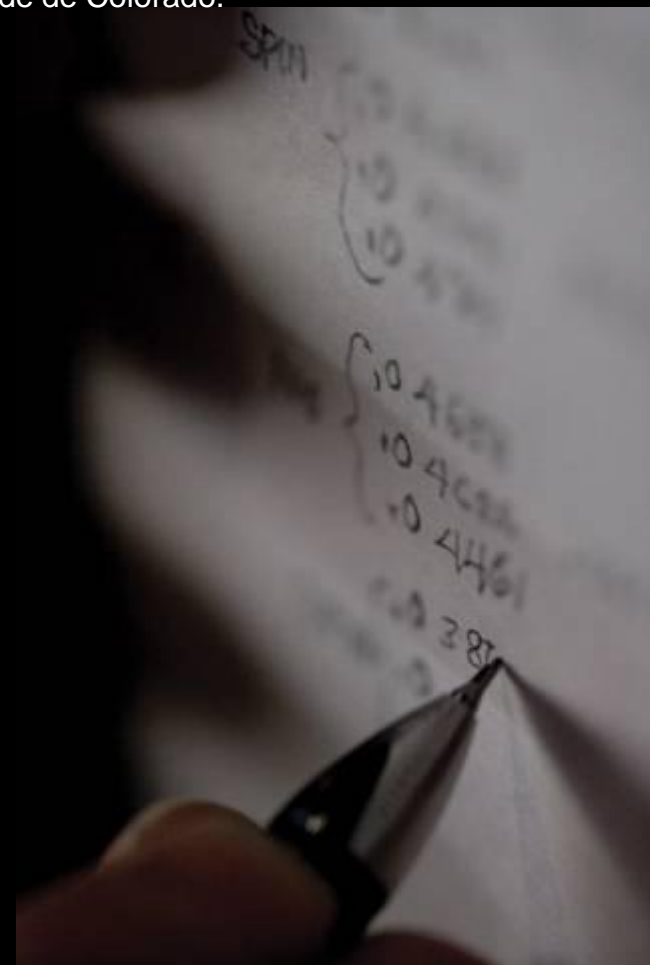
**WORKSHOP**

**PLASMA 2**



**SCOTT**

O painel de controlo do tunel de vento de baixa velocidade de Colorado.



Sweating the numbers



Charley French, engineer of the patented, first ever SCOTT aero bar, manages Plasma2 wind tunnel testing.





Mike Caiazzo, Pro Triathlete, Zoot Ultra Triathlon Team

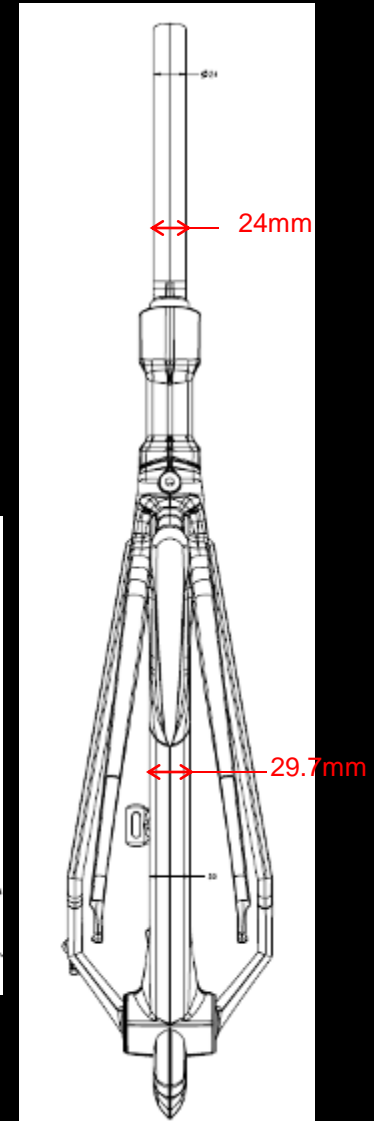
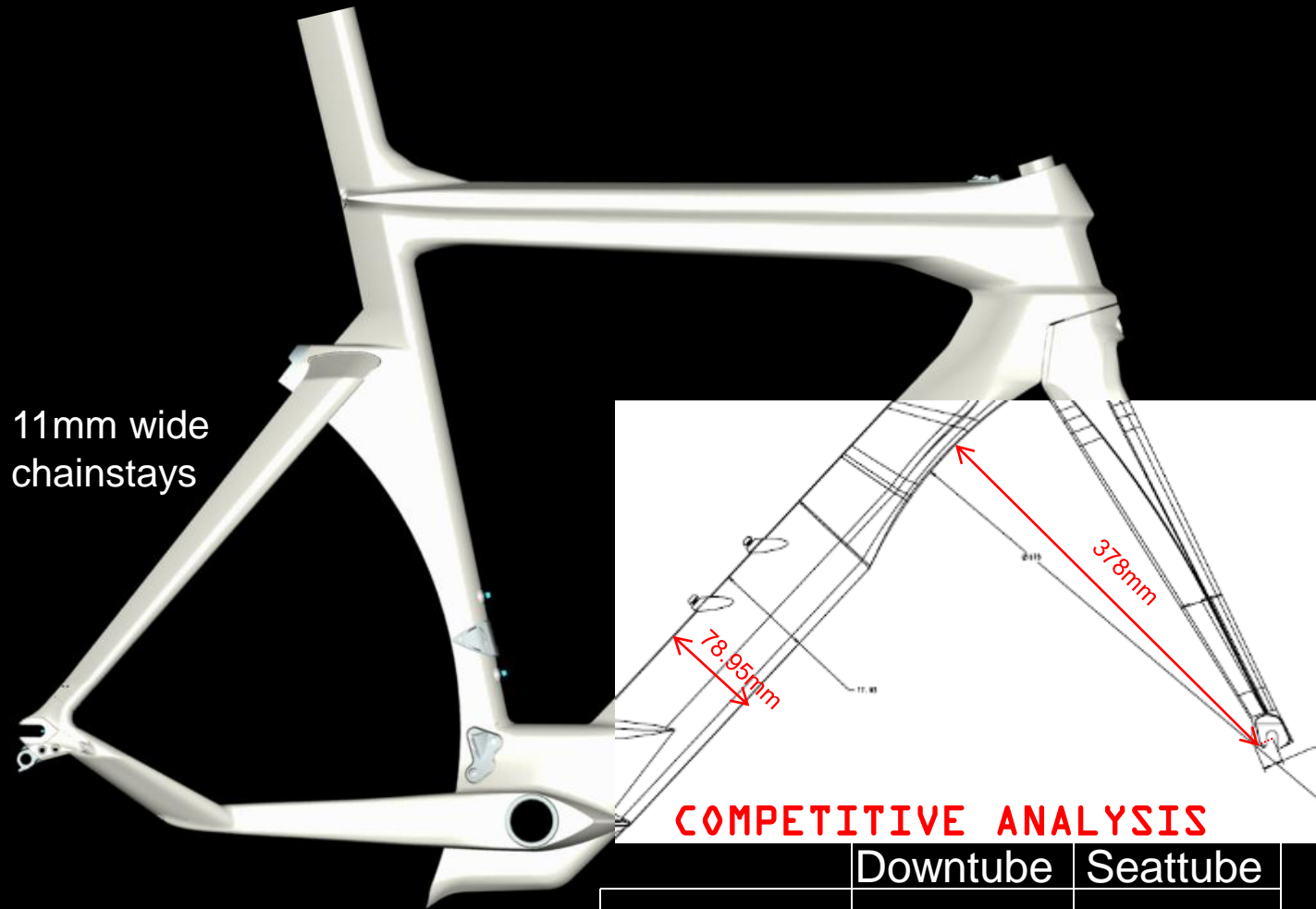


**OBJECTIVE:** The fastest triathlon/TT bike in the world. Using aerodynamic shapes, innovative IMP5 construction engineered by the carbon experts.



*\*Size: Medium, effective weight without integrated seat tube*

## Super narrow tube profiles



### COMPETITIVE ANALYSIS

|         | Downtube | Seattube |
|---------|----------|----------|
| Plasma2 | 29.7mm   | 24.0mm   |
| Cervelo | 29.2mm   | 28.8mm   |
| Kuota   | 38.1mm   | 32.2mm   |
| Felt    | 34.5mm   | 26.1mm   |



Shelter127™ = 127° of seamless wheel coverage



Total 127° = Rear: 80° + front:47°  
of wind cheating aerodynamics.

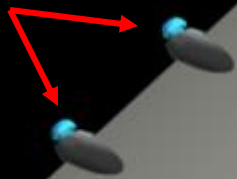


Wheel to seatstay gap can adjust to width of a credit card to avoid air disruption.

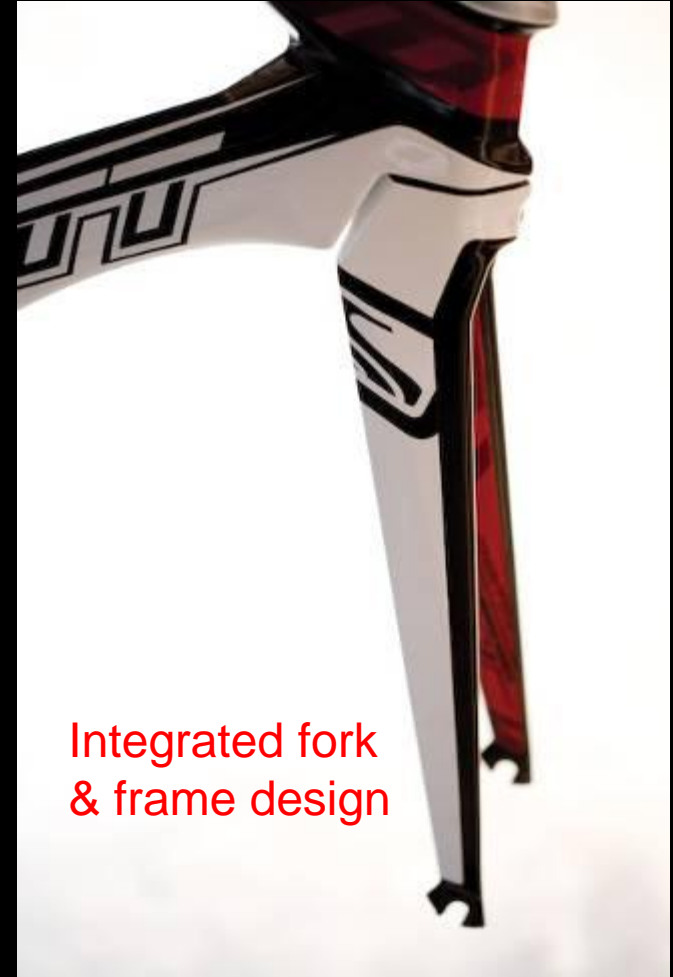


# Drag reducing integrated frame design

Even water  
Bottle bosses  
are aero  
shaped!



Front wheel  
Cutaway.



Integrated fork  
& frame design





## Speed Skeg™ innovative bottom bracket design

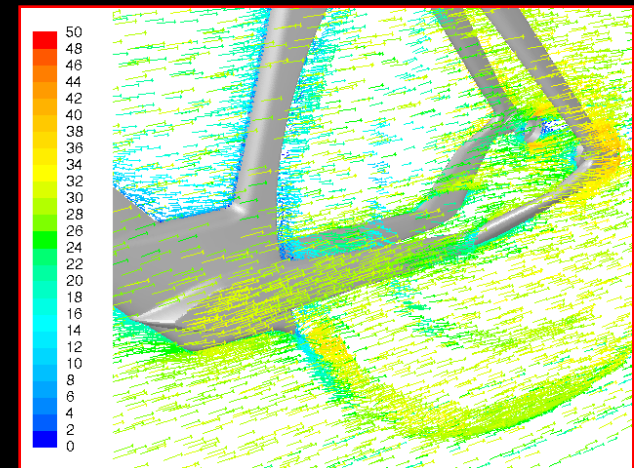
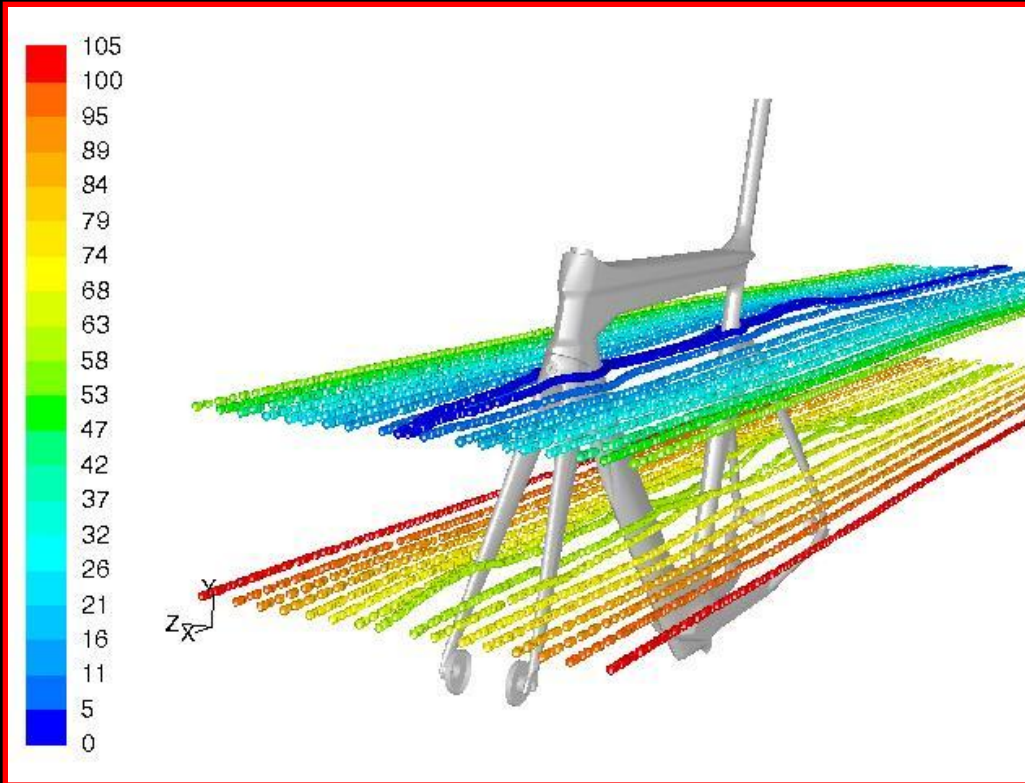


Yarn in wind tunnel testing tracks specific air flow direction.

Down fin channels wind around the rear wheel, allows for narrower downtube construction, total internal cable routing.



# Air Flow Analysis



IMP5™ Integrated molding process expanded to 5 tubes

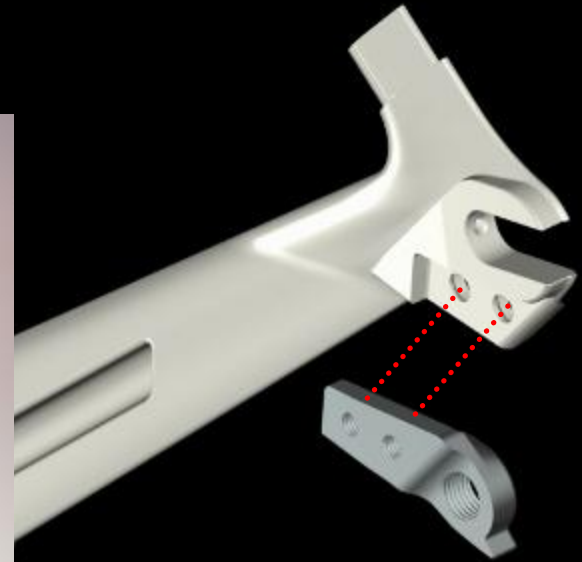


2 Our most complicated and sophisticated carbon structure ever.

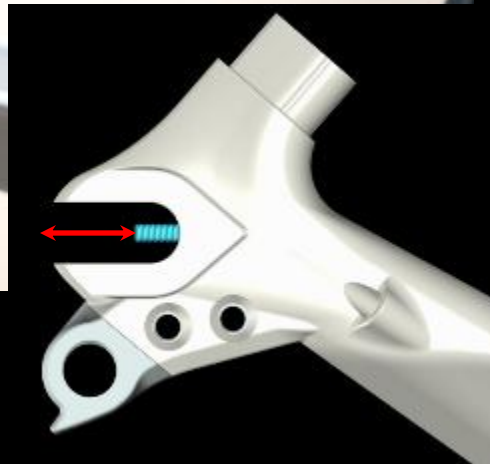
Top, head, down, seat tubes and chain stay all IMP technology and process.



## TwinTurbo™ aero carbon chainstays



Alloy replaceable derailleur hanger.



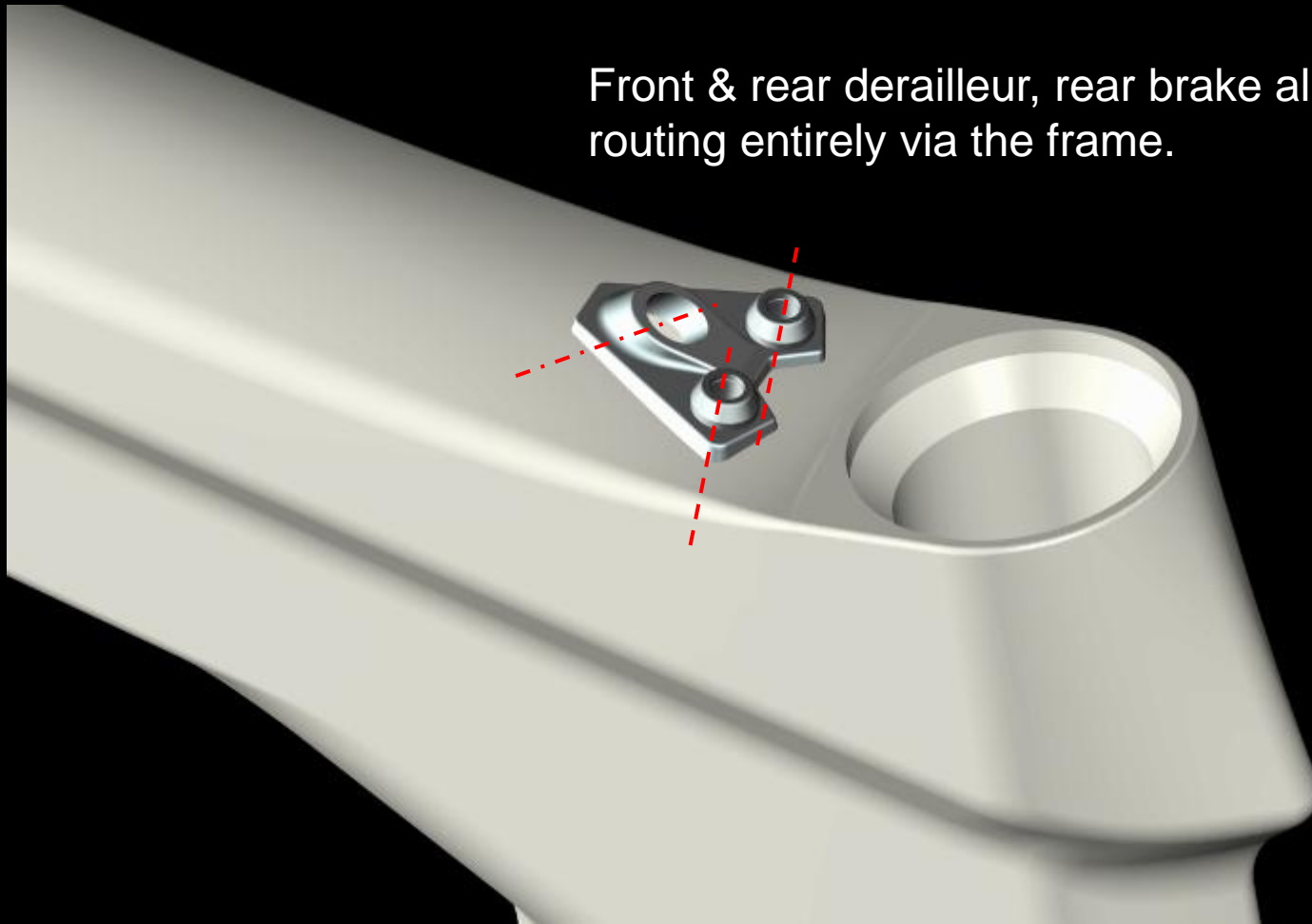
Rear wheel position adjustment screw minimizes frame to rear wheel separation.

TWIN  
TURBO



## Complete integrated cable routing

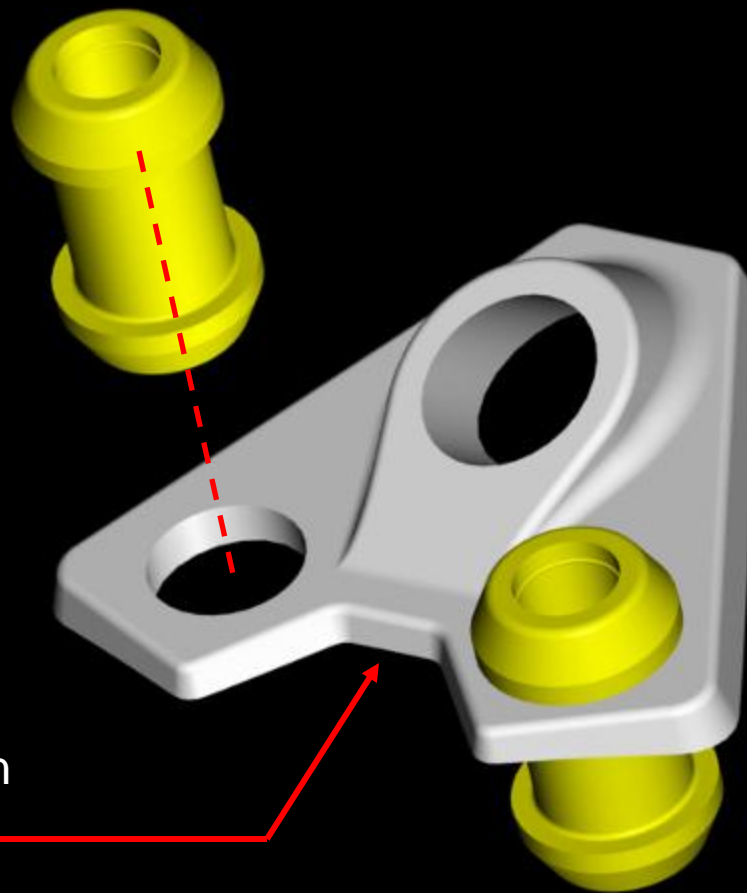
Front & rear derailleur, rear brake all with internal routing entirely via the frame.



## Complete Integrated cable routing

Rubber seals prevent sweat, grime, Clif shots from entering frame.

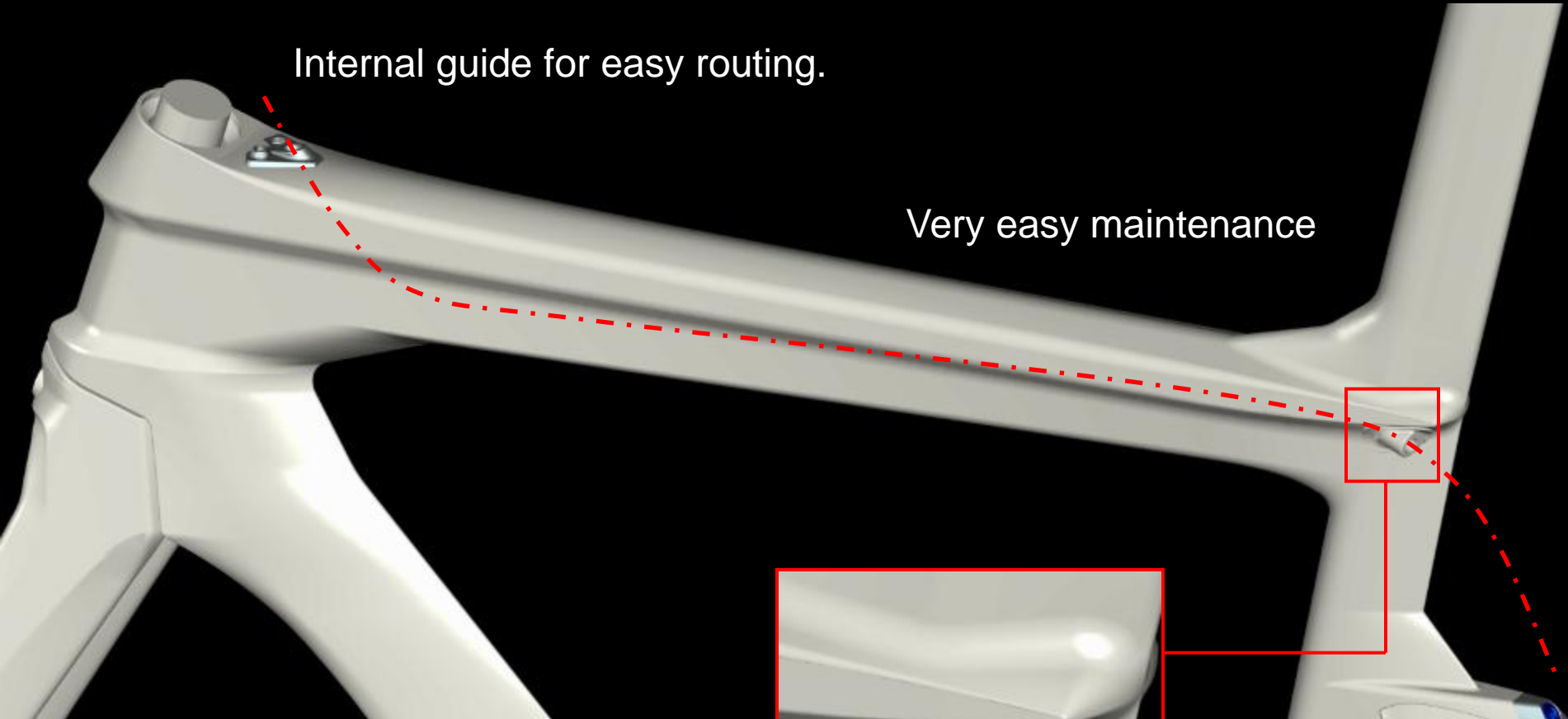
Carbon plate holds cables in place on the top tube.



**Complete Integrated cable routing**

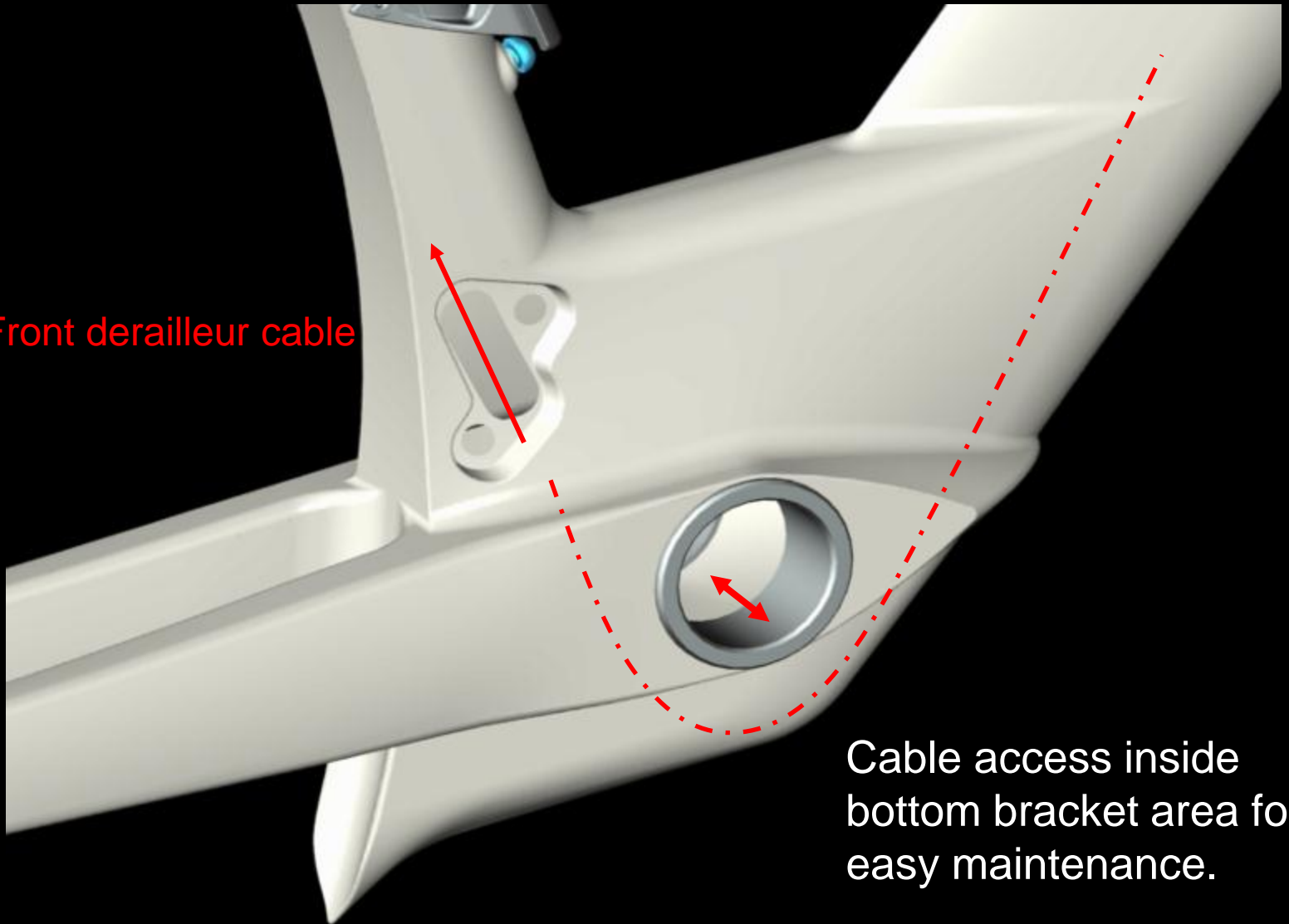
Internal guide for easy routing.

Very easy maintenance



Complete Integrated cable routing

Front derailleur cable



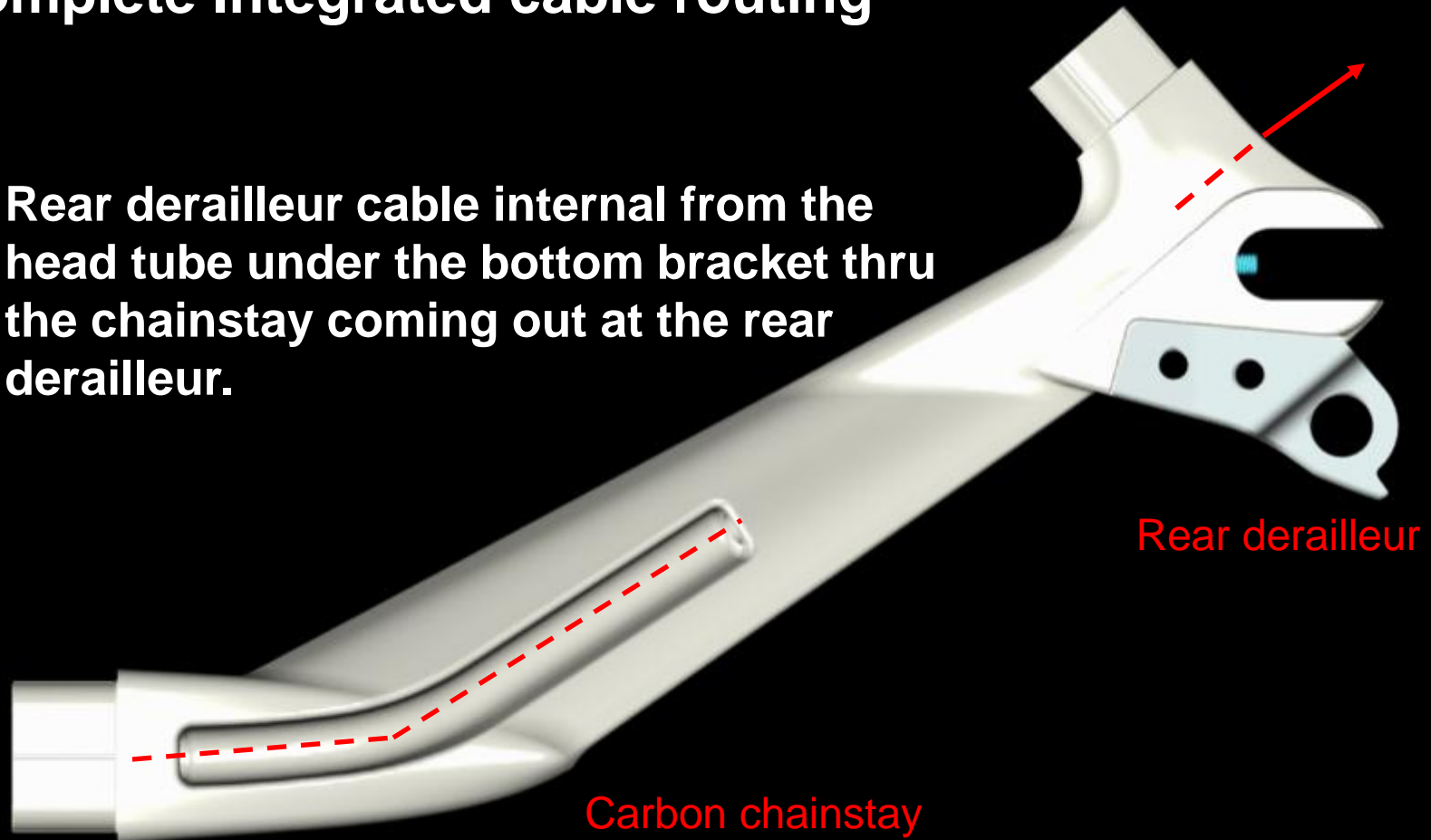
Cable access inside bottom bracket area for easy maintenance.





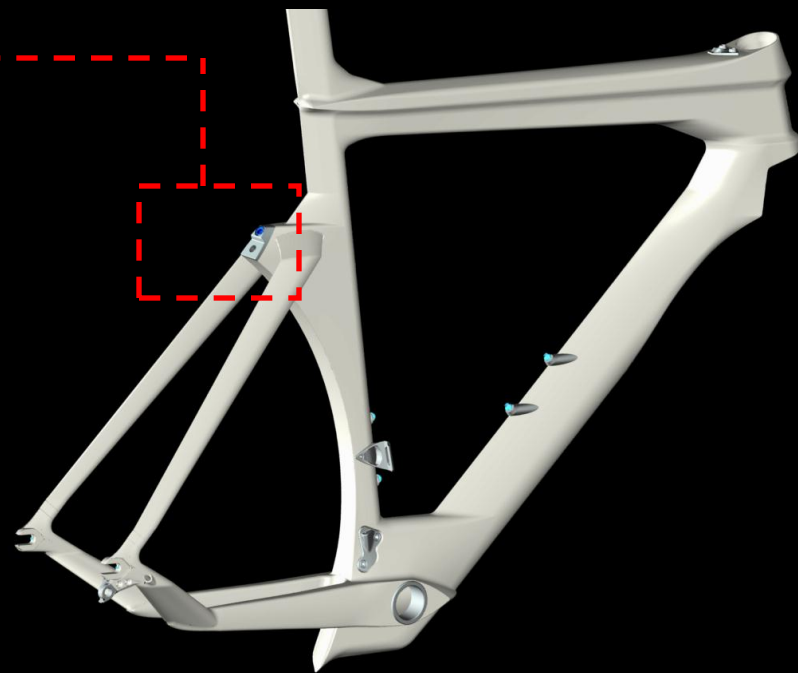
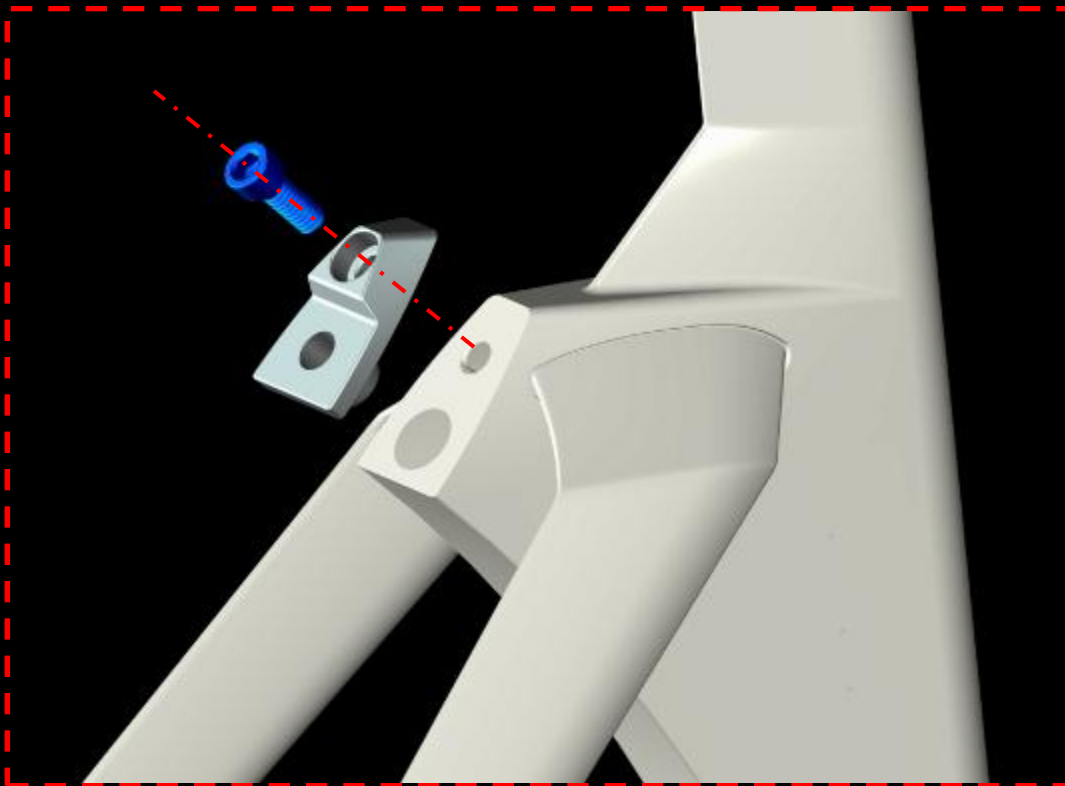
## Complete Integrated cable routing

Rear derailleur cable internal from the head tube under the bottom bracket thru the chainstay coming out at the rear derailleur.



## Rear brake mount is adjustable

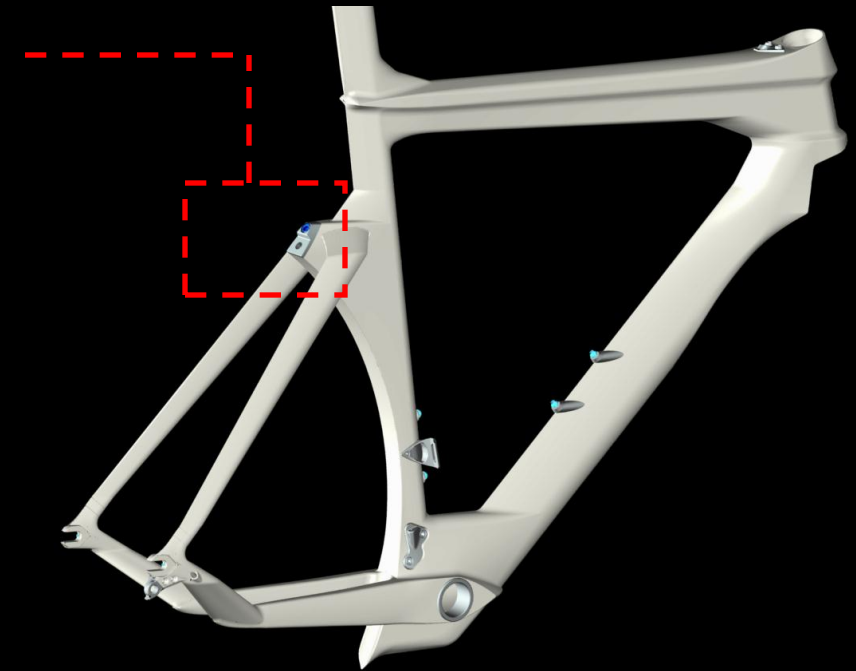
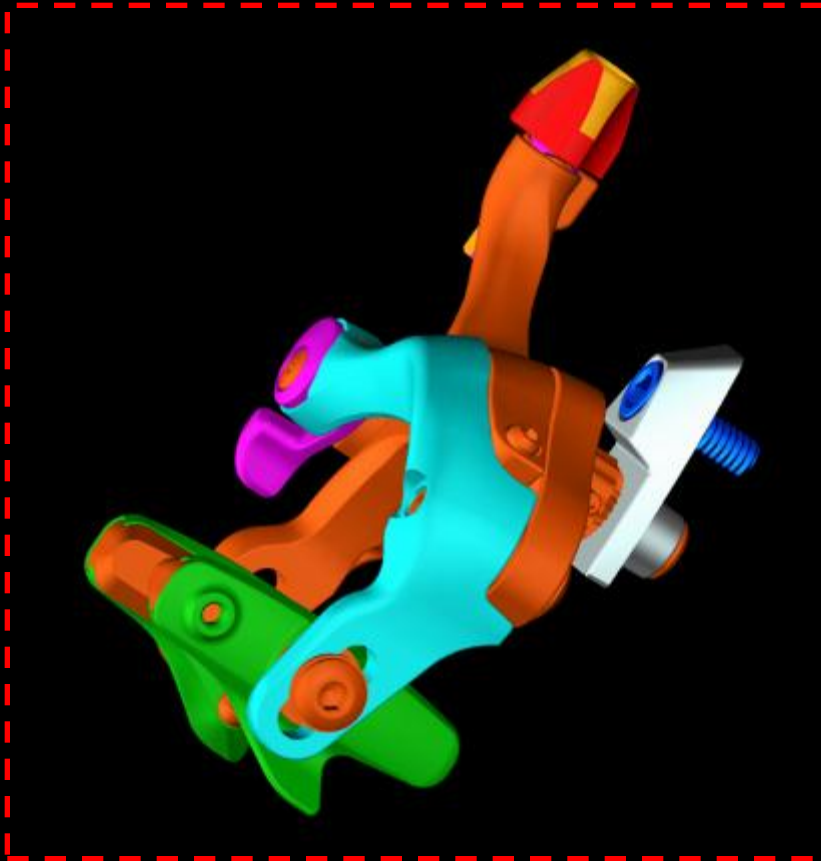
Rear brake area enlarged



Allows the rear brake to be moved to match the rear tire placement

## Rear brake mount is adjustable

Adapts to any tire size or disc wheel.



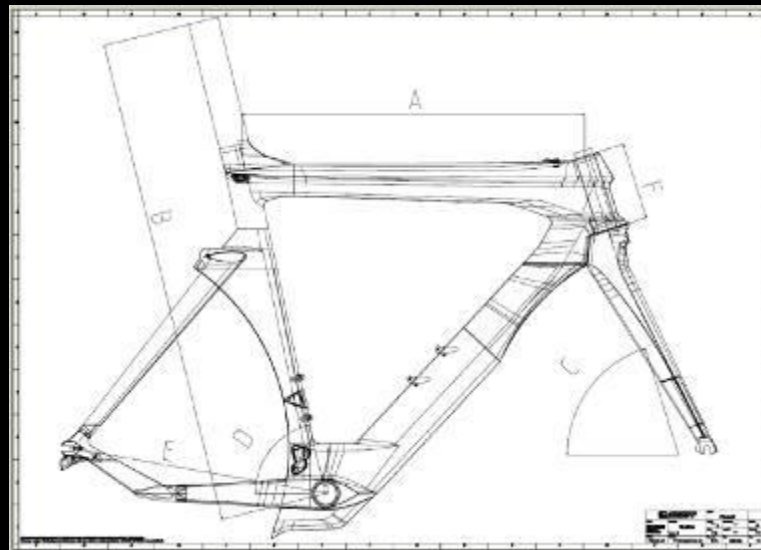
## Adjustable seat tube angle



New Ritchey adjustable seat post clamp  
Adjusts between 73-79 degree seat angle.



Sizing: New  
XXS/47cm  
size with  
700c wheels



|      |    | A         | B         | C          | D         | E          | F          |           |
|------|----|-----------|-----------|------------|-----------|------------|------------|-----------|
| Size | cm | TT Horiz. | Top of ST | Head angle | Seatangle | CST length | Integr. HT | BB Offset |
| XXS  | 47 | 490       | 640       | 71,0°      | 76        | 406        | 90         | -70       |
| XS   | 49 | 505       | 680       | 71.5       | 76        | 406        | 100        | -70       |
| S    | 52 | 520       | 720       | 72         | 76        | 406        | 110        | -70       |
| M    | 54 | 535       | 760       | 72.5       | 76        | 406        | 120        | -70       |
| L    | 56 | 552       | 800       | 72.5       | 76        | 406        | 140        | -70       |



**Wind tunnel test results**



|    | Bike Brand    | Drag (newtons) |
|----|---------------|----------------|
| 1. | SCOTT Plasma2 | 4.952 N        |
| 2. | Cervelo P3    | 5.010 N        |
| 3. | Felt DA       | 5.306 N        |
| 4. | Kuota Kalibur | 6.154 N        |



PLASMA 2

THE END



Coming soon...going fast!



SCOTT