



DOGMA ER

WHITE PAPER 1.0



DOGMA GR WHITE PAPER



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Red Bull

PINARELLO

DOGMA F1

BREITLING

MOST

ultra

TERRANO

PRO

R



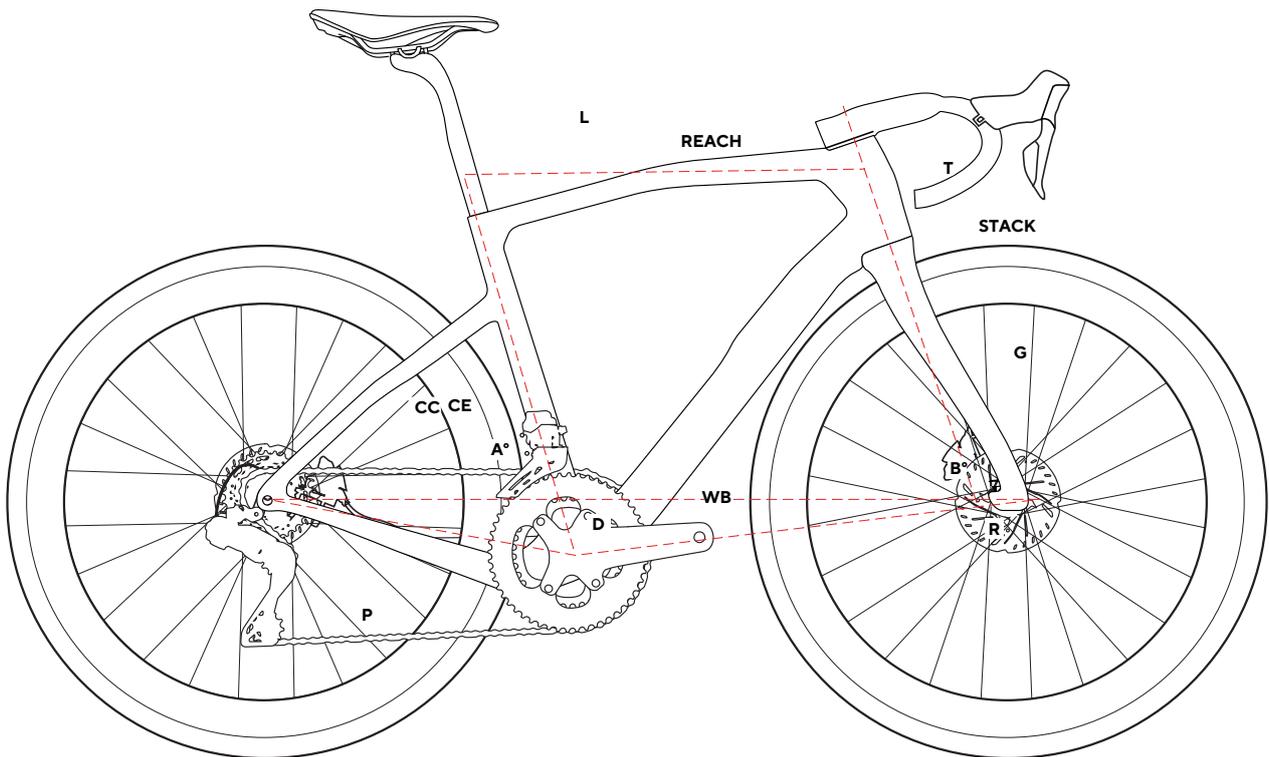
1. PRODUCT MISSION

To be among the lightest aero gravel bikes on the market. This fast gravel bike has been designed to win on UCI gravel race courses. It's a new platform developed to excel especially on hardpack, fine loose gravel and mixed gravel for races under 5 hours.

2. CUSTOMER PROFILE AND REQUIREMENTS

Ideal for riders obsessed with perfection. They want to use only the best equipment on the market. They understand that focusing on the details like weight, aerodynamics, and top-quality materials helps them to perform at their best.

3. SPECIFIC GEOMETRY FOR OFF ROAD HANDLING



CE	CC	L	I	A [°]	B [°]	P	T	D	R	G	WB	REACH	STACK
415	430	515	115,6	74,4	70	425	115	72	50	390	996	355	536
425	465	520	125	74,4	70,5	425	121	72	50	390	1000	361,1	543,6
450	500	530	137,8	74	70,5	425	130	72	50	390	1008,8	366,9	552,1
465	515	540	144,5	73,7	71	425	137	72	50	390	1012,6	372,6	560,6
485	530	550	148,8	73,7	71	425	150	72	50	390	1023,4	379,1	572,9
500	545	562	155,7	73,4	71	425	165	72	50	390	1033,1	384	587,1
515	560	575	163,7	73	71,5	427	180	72	50	390	1037,9	388,6	603,3
525	575	585	168,1	73	72	427	200	72	50	390	1043,6	392,7	624,3
540	595	605	179,9	72,4	72,5	427	228	72	50	390	1052,5	398	653

CE: SEAT TUBE CENTER - END | CC: SEAT TUBE CENTER - CENTER | L: TOP TUBE CENTER - CENTER | A [°]: SEAT TUBE ANGLE | B [°]: HEAD TUBE ANGLE | P: CHAINSTAY | T: HEAD TUBE | D: BB DROP | R: FORK RAKE | G: FORK HEIGHT | REACH | STACK



1. HEADTUBE AND SEATTUBE ANGLES: The frame's geometry is specially designed to ensure riders can get the most out of their effort. The angles of the seattube and headtube facilitate an aerodynamic position in the saddle while increasing a feeling of security and stable handling on the front, which is a fundamental feature for fast gravel riding.





2. COCKPIT: The frame geometry and handlebar dimensions have been studied together, since each impacts the other. For this reason, the gravel frame is coupled with a handlebar designed in its length and width to complement the frame's aerodynamics and handling characteristics, which are at the core of the project. After extensive tests carried out on the Dogma GR, we decided to adopt the same handlebar geometry as the Talon Ultra Fast with 7° flare and 7° inward bend.

The Talon Ultra Fast GR cockpit uniquely features two rivets on the top, which provide attachment points for the new TT Gravel Bars.

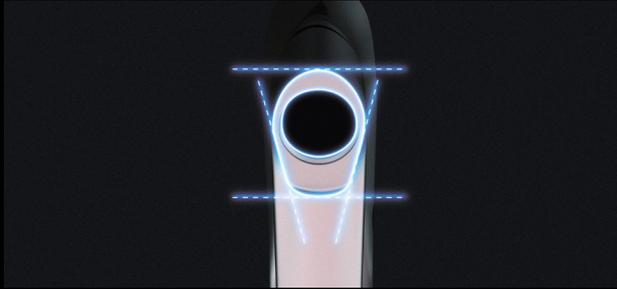


3. UCI APPROVED: The Dogma GR is UCI approved and specifically designed to compete at the highest level for the UCI gravel world series and world championships.



4. FORK RAKE: The new Onda fork features a 50 mm rake for improved handling at speed. Its special shape and material layup ensure an optimum amount of vertical compliance to enhance vibration absorption, effectively maintaining ground contact and traction. Thanks to its clean design and our race-oriented approach, the Dogma GR Fork weighs only 410 grams.

4. AERODYNAMICS



1. HEADTUBE BOW: Our aerodynamic headtube “nose” shape, introduced first on the DOGMA F8 in 2014, is always evolving. The most recent iteration reduces the volume and the width of this leading edge, offering a more streamlined design to improve the frontal aero efficiency.

2. E-TICR: Reducing the frontal width required a complete redesign of the headtube. We developed the innovative elliptical shape, which incorporates a completely new headset with differentiated bearings that are wider at the bottom and narrower at the top.



3. FRONT THRU AXLE: Hidden front thru axle thread. This solution improves the aero performance while enhancing the clean design of the fork.



4. DOWNTUBE: Specially designed to improve aerodynamic efficiency when using 750 ml bottles. Also offers a specially integrated internal storage place for a tool bag easily accessible without having to remove the bottle cage.



5. THE ART OF SCULPTING

1. **SLEEKLY SCULPTED SEATPOST:** A new seatpost has been designed for this project. The tube section, and the shape more generally, has been specially shaped to ensure increased comfort by finding the right balance between stiffness, aerodynamics, and vibration absorption. Maintaining a correct position on the saddle even when riding on uneven terrain allows you to apply the most consistent power to the pedals.



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6. LIGHTWEIGHT

- 1. M40X CARBON:** As with our high performance road bikes, the Dogma GR focuses on rigidity and reduced weight. Consequently, the frame features the new M40X carbon fiber layup, proven on the new Dogma F to be lightweight, responsive, and durable. It's the most advanced carbon fiber frame currently on the market.
- 2. SUPER LIGHT:** The Dogma GR is our lightest gravel bike ever. The frame weighs only 960 g while the complete bike is 7.35 kg. That weight is based on a Dogma GR in Interstellar Grey Matt color with Princeton Grit 4540, Vittoria 40 mm tires, and SRAM Red groupset.
- 3. 3D PRINTED SEAT CLAMP:** Using titanium hardware, the 3D printed clamp reduces weight while ensuring maximum reliability over rough terrain.

7. COMPATIBILITY

- 1. MAXIMUM AND MINIMUM CHAINRING SIZES:** For a double chainring: 54T max - 40T max. For a single chainring there are no size limitations.
- 2. MAXIMUM TIRE SIZE:** Customizing the tires according to the conditions of the race courses is essential. For this reason, the frame guarantees a maximum tire clearance of 45 mm and 42 mm, as measured, at the front and rear, respectively.





3. GRAVEL ACCESSORIES:

Racing bento box: Narrow and lightweight, the bento bag is custom made with a deliberately slim profile to avoid friction with the knees while pedaling. Ideally suited to carry all essentials for races under 5 hours.

Toolbag: The new toolbag slides seamlessly into the downtube. The bag has specific compartments for a CO2 cartridge, tire levers, inner tube TPU, a Most mini pump, and CO2 valve.

Iron 8: The new Iron 8 mini-tool is only 56 grams and integrates perfectly with the rear of the downtube cover. With this new lightweight mini-tool you can make all the basic adjustments the bike may require mid-race or ride.

TT gravel bars:

- Double center rivet on Talon Ultra Fast GR
- Adjustable reach and stack for extension and pads
- Computer mount integrated into the extension
- Fixed tilt +10°
- High quality carbon

Rock protector: To protect the bottom bracket area, we have developed a lightweight protector with a rubberized finish. The protector prevents rocks from damaging the frame and reduces any unsettling noises caused by rock impacts on fast descents.

Chainstay protector: To protect the carbon chainstay, we have borrowed from our mountain bikes and developed a protective strip that sticks onto the drivetrain side chainstay to mitigate the impact and noise of chain slap over rough terrain.

4. SUPPORTS UDH: The Dogma GR remains at the forefront of drivetrain innovations with its UDH compatibility. Designed specifically for the SRAM 13-speed groupsets, the Universal Derailleur Hanger offers cross-brand compatibility and works with all wireless drivetrains currently on the market.

The frame is compatible with 12mmx100mm through axle on the front and 12mmx142mm axle on the rear. This offers the most complete range of compatibility with rims on the market both for road and MTB riding.



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