

FULCRUM

embargo

March 18th 2026 4pm CET

SHARE
OR



Gravel racing has evolved.

This project is the result of a **deep analysis of athletes' changing needs**, combining real-world data and firsthand experience from **top-level** gravel competitions.

The evolution of races and riding style demands **wheels capable of sustaining high speeds on extremely rough terrain, without compromising control or precision.**

A deep analysis of our range highlighted the opportunity to develop a new solution—**more advanced, more performant**—strategically positioned between our all-road and adventure gravel ranges.

As wheel specialists, we design **dedicated products for each discipline**, never relying on forced adaptations. Every technical choice is made with a single objective: maximum performance in its specific riding environment.



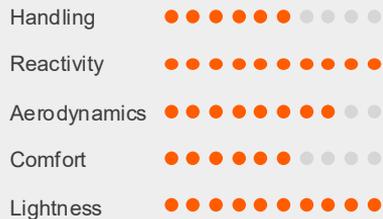
New category in the full dropbar range

Road

SPEED

WIND

Built for speed and smooth tarmac. Fast, light, and made to go the distance.

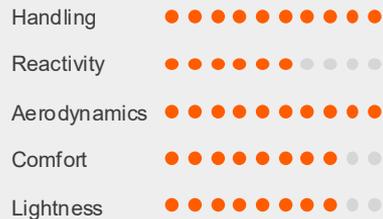


All-Road

SHARQ

SONIQ

From pavement to path. Versatile, comfy, and ready for mixed surfaces.



Gravel (Race)

SHARQ GR

SONIQ GR

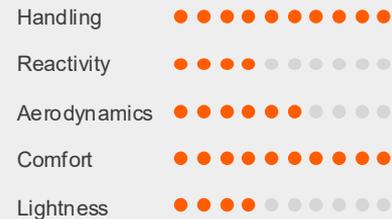
Fast lines, loose roads. Aero design for high-speed gravel and racing.



Gravel (Adventure)

RAPID RED

Off the grid, fully loaded. Made for big rides, rough trails, and exploration.



The answer to these demands lies in the development of a new wheel: deeper, wider, and more capable than any previous solution.

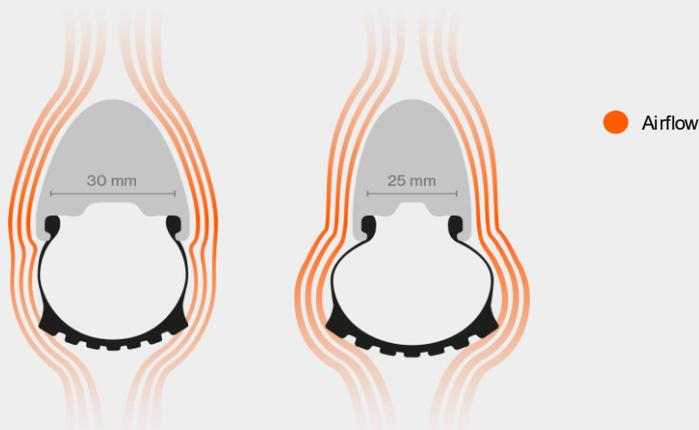
Engineered for superior high-speed performance on gravel surfaces.



SHARQ

Technical benefits

RIM-TIRE INTERFACE

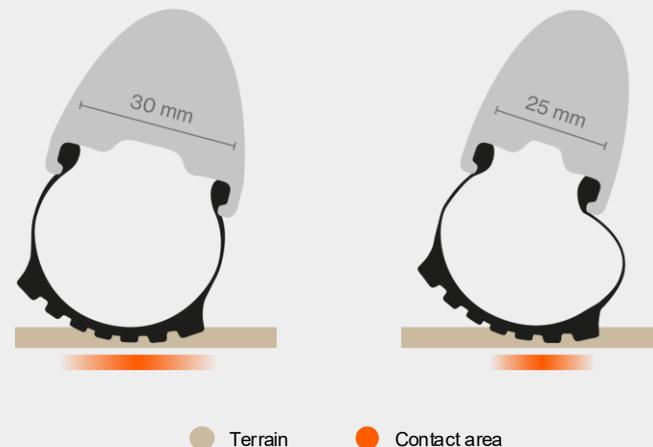


On rims that are too narrow, a wide tire gets pinched, causing the well-known “lightbulb effect”.

On the other hand, a wide rim paired with a wide tire dramatically improves airflow interaction, optimizing the overall wheel system aerodynamics.

For this project, we tuned the combination for peak performance: a 30 mm wide rim, with a 2-Wave Rim design, 47- 52 mm deep, perfectly matched with a 50 mm tire.

CONTROL

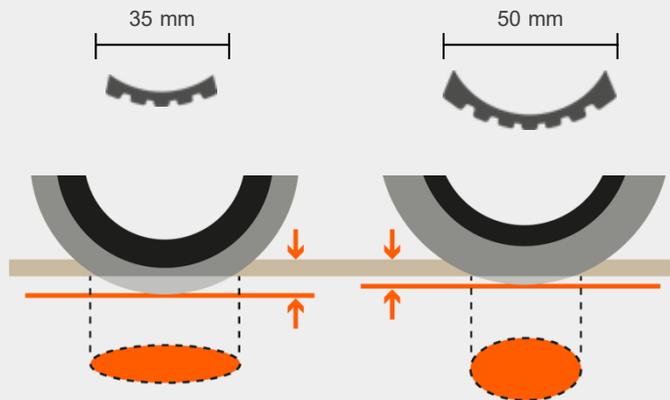


The wider internal channel also allows the tire to maintain its optimal shape, enhancing contact patch, stability, and overall performance.

Additionally, this setup helps prevent the ‘burp effect,’ ensuring maximum safety and consistent ride feel even under high pressure or cornering loads.

Technical benefits

ROLLING RESISTANCE



A tire's footprint directly affects rolling resistance.

With a narrow tire, the longer flattened area reduces the wheel's "roundness," causing greater deformation during rotation.

In contrast, **a wide tire has a shorter flattened area**, minimizing impact on rolling resistance and allowing **higher speeds to be maintained with less power**.

SAFETY



At Fulcrum, we firmly believe in using mini-hooks on our gravel rims for two reasons:

Compatibility. We want our wheels to work with a wide range of tires.

Safety. Hookless rims are safe only within a specific pressure range. Many users don't know this and over-inflate their tires. Hooked rims ensure maximum safety even if the pressure is exceeded.

Technical benefits

AERODYNAMICS



2-WAVE
RIM™



The most interesting result in terms of aerodynamic performance was achieved with a rim profile that had a **periodical wave with a regular progress in the nose, which becomes irregular close to the external walls.**

The **main advantage is in the yaw moment, especially in the interval between 10 and 20 degrees. Energy savings at given angles:**

0° to 10° → **-21%** 10° to 20° → **-29%**

NATIVE TUBELESS



2-WAY FIT™
TUBELESS



Tubeless oriented since 2006

The 2-Way Fit™ technology allows the **use of both tubeless and tube+tire systems.** A magnet helps to guide the insertion of the nipples in the rim, which doesn't have any hole in the channel, except for the valve one. The rim bed is perfectly sealed thanks to the **absence of holes**, therefore:

- the wheel is **ready to fit tubeless** tires without the need of any tape
- the wheel is **stronger and stiffer** as there are no interruptions on the fibers.

Technical benefits

SMOOTHNESS



CUP & CONE



Cup&Cone bearings glide on inclined rings relative to the axis of rotation, purpose-built to handle the forces during use. As a wheel spins, tension transfer from the ground to the rim, then to the hub via spokes. Spokes meet the hub at a specific angle, perpendicular to the inner ring's tilt, known as the "cone».

This setup ensures that **forces during wheel use are absorbed correctly** by its components, **ensuring optimal system performance and component longevity**.

FORCE MANAGEMENT



NON-TOUCHING SPOKES



2:1 TWO-TO-ONE SPOKE RATIO™



A3RO is the new flat steel spoke, 3 mm wide and 0.8 mm thick, which provides considerable aerodynamic advantages.

This spoke has a particular flattening at the base, matching the hole in the hub, so that it can remain aligned and not rotate.



sharq

Sharq GR

2-Way Fit™ - Undrilled rim

MoMag™

Cup & Cone Bearings

DRSC™ Direct Rim-Spoke Coupling

A3R0 Spokes

E-Bike Light Compatible*

Made in Europe – EUR1

Rim profile height	47-52 mm
Internal rim width	30 mm Hooked Rim
Rim details	Carbon 2-Wave Rim
Tires compatibility	47-71** mm
Spokes	24, A3R0 3mm
Bearings	Cup & Cone, Adjustable
ASTM Category	2
Price	1.990 €

*Steel freewheel body required. Max motor power: 60 N/m – Max system weight (rider+bike): 125kg

** Tests on going to validate the use of 45 mm with selected tire partners



The system is optimized for 47–50 mm tires, the reference size for this project.

Testing is also ongoing with 45 mm tires, as this size has demonstrated high performance under specific riding conditions.

All testing activities are ongoing and aimed at extending compatibility beyond current regulatory limits, while maintaining wide safety margins and working in close collaboration with leading tire manufacturers.

Additional tests are currently underway to progressively expand the list of compatible tires.

The full list of compatible tires will be available at product launch.

The logo for Pirelli, featuring the word "PIRELLI" in a bold, black, sans-serif font with a horizontal bar above the letters.The logo for Vittoria, featuring a stylized "V" symbol followed by the word "vittoria" in a bold, italicized, black, sans-serif font.The logo for Schwalbe, featuring the word "SCHWALBE" in a bold, black, sans-serif font with a small star symbol to the right.The logo for Maxxis, featuring the word "MAXXIS" in a bold, black, sans-serif font.The logo for Hutchinson, featuring a stylized "G" symbol followed by the word "HUTCHINSON" in a bold, black, sans-serif font.The words "tires compatibility" are written in a large, orange, dot-matrix font. The letters are formed by a grid of small orange dots, giving it a digital or retro aesthetic.

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thank
you

