GREVIL MX

WHITE PAPER 1.0

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1. PRODUCT MISSION

The GREVIL MX has been created to be the most capable gravel platform in the Pinarello range, engineered to conquer terrain where traditional gravel bikes reach their limits.

Our development goal was simple to define but demanding to achieve: **bring the handling, precision, and structural capability of a high-end MTB into a gravel platform—without compromising responsiveness, stiffness, or efficiency on hardpack surfaces.**

The GREVIL MX is guided by three fundamental principles:

1. **EXTENSIVE VERSATILITY:** Capable of adapting to an extremely wide range of terrain and setups, without sacrificing performance.
2. **CONTROL IN THE MOST DEMANDING CONDITIONS:** Stability, precision, and damping for technical sections, loose descents, and high-speed lines on rough terrain.
3. **THE PERFECT MX:** Geometry, structure, and engineering solutions adapted from the best of our road and MTB world.

2. CUSTOMER PROFILE AND REQUIREMENTS

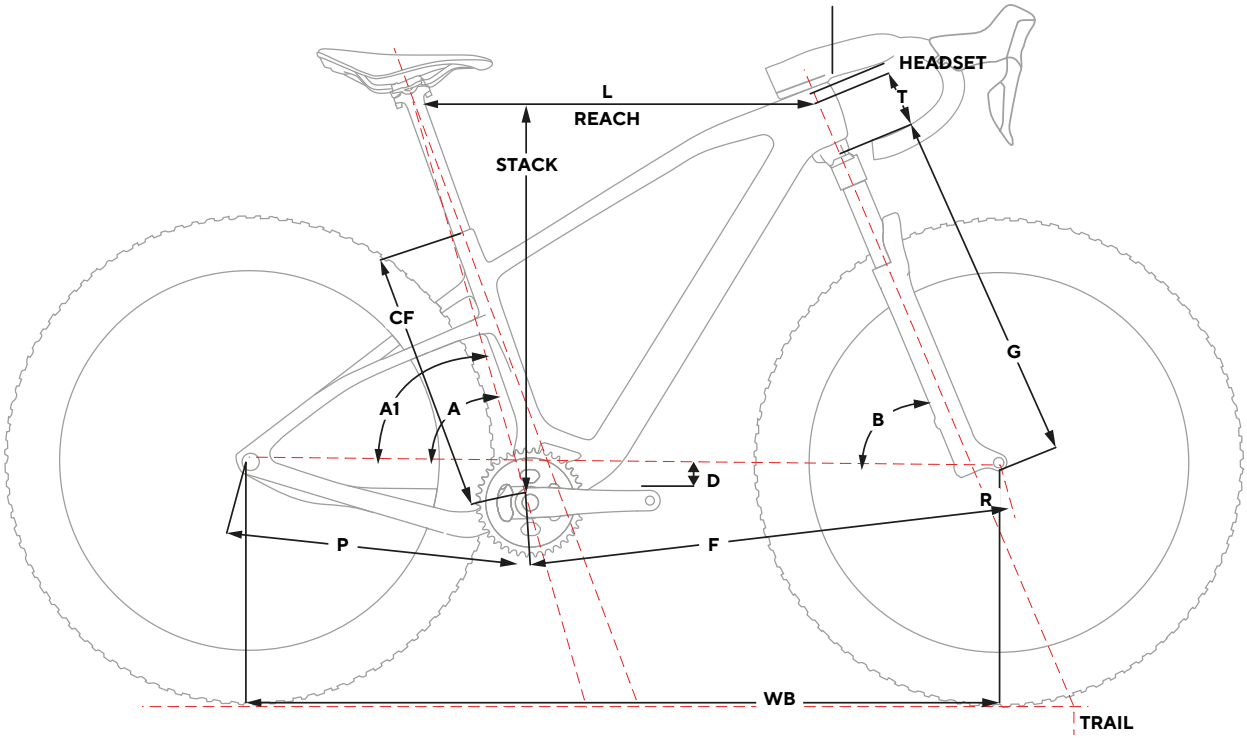
The GREVIL MX is designed for riders who push gravel beyond typical boundaries — steep climbs, rugged trails, technical descents, and long endurance routes.
Three core user profiles define its audience:

1. **THE FAST EXPLORER:** The Grevil MX turns out to be a very versatile bike, perfectly suited for any kind of race or adventurous event where the route is unknown.

2. **THE GRAVEL-MOUNTAIN RIDER** Thanks to its gearing and suspension, the Grevil MX handles stiff climbs and long, rocky descents with equal ease.

3. **THE EX-MOUNTAIN BIKER** The feelings of an MTB, but with road-bike ergonomics. Descents and transfers become much faster, with the added benefit of extra fun.

3. TUNED GEOMETRY



SIZE	CF	WB	A°	A1°	B°	F	P	T	D	R	G	REACH	STACK	TRAIL
S	405	1112	74.6	69	67.5	696	422	85	60	44	511	423.1	598.9	103.3
M	435	1142	75	69.5	67.75	723	425	90	58	44	511	450	602.7	101.6
L	470	1168	75	69.75	68	746	428	105	56	44	511	470	615.8	99.8
XL	500	1191	75	70	68.25	767	430	120	56	44	511	488	630.9	98

CF: SEAT TUBE CENTER - END | **WB:** WHEEL BASE | **A[°]:** SEAT TUBE ANGLE | **B[°]:** HEADTUBE ANGLE | **F:** FRONT CENTER | **P:** CHAINSTAY | **T:** HEADTUBE | **D:** BB DROP | **R:** FORK RAKE | **G:** FORK HEIGHT | **REACH** | **STACK** | **TRAIL**

1. GEOMETRY & HANDLING PHILOSOPHY:

The GREVIL MX geometry borrows stability and confidence from our racing MTB platform, especially in terms of head angle, trail, and stack-to-reach ratio.

This approach increases control on rough surfaces, steep descents and technical transitions - creating a riding behavior rarely achieved in the gravel category.

Yet, unlike a traditional MTB setup, the MX is paired with the Talon Ultra Light cockpit, developed according to our road racing bike cockpits.

This choice delivers two critical advantages:

• **Aerodynamic Efficiency:** The Talon Ultra Light enables a lower and more compact position, reducing frontal area and improving speed on exposed terrain, long straights, and high-speed sections.

• **Precision without Excessive Width:** Because steering stability is largely ensured by the MTB-inspired geometry and the front suspension fork, the rider does not need an excessively wide handlebar to maintain control. This allows the cockpit to remain narrower and more aero, without compromising handling.

In essence, the GREVIL MX blends:

- **MTB geometry for control on rough terrain**
- **Road-derived cockpit for aerodynamic efficiency**
- **Front suspension support for steering confidence**

Resulting in a platform that delivers speed, stability, and reduced muscle fatigue across vastly different riding conditions.

4. FRAME FEATURES

The frame uses a full carbon construction with best-in-class Toray M40J carbon fiber, fully integrated TiCR cable routing, and a threaded BB. The frame shape around the BB area features an ultra-stiff triangular structure, while the rear triangle employs Pinarello's patented **asymmetric design**, with the left side structurally reinforced to counterbalance the higher loads generated on the drivetrain side.

This architecture creates a more **balanced energy transfer**, improving both traction and acceleration efficiency on loose or variable terrain.

On the GREVIL MX, both the chainstays and seatstays are shaped and reinforced to withstand the **high torsional forces** typical of aggressive gravel riding, steep off-road climbs and explosive accelerations.

The result is a frame that maintains stability and responsiveness even when subjected to demanding terrains and aggressive riding.

5. COMPONENTS CHOICE: PERFORMANCES JUSTIFIED BY NUMBERS

The GREVIL MX uses components chosen because they offer **quantifiable performance advantages.**

1. TIRE CHOICE — 50MM GRAVEL (SCHWALBE)

We optimized the platform around 50 mm gravel tires, achieving a strong balance between traction and fatigue reduction, without adding extra weight.

2. SUSPENSION FORK — 100MM TRAVEL

Among current suspension options, the frame uses the best solution for improve gripping performance versus added weight.

3. TRANSMISSION SYSTEM — MTB RANGE + AERO EFFICIENCY

The drivetrain setup was selected to balance climbing range with flat-speed efficiency.

At 80 RPM, the GREVIL MX with a 38T–10/52 drivetrain reaches **41.6 km/h in the highest gear** and drops to **8.2 km/h in the lowest gear**.

Why MX gears are optimal:

- Close to gravel top speed
- Significantly better climbing than typical gravel setups.
- Better descending cadence than MTB setups.

The package is completed with an aero-profile chainring, improving:

- Stiffness
- Chain retention
- Aero penetration vs. round chainrings

6. COMPATIBILITY

1. **CHAIN LINE:**
The Grevil MX uses 55 mm chainline with zero offsets chainrings.

2. **COMPATIBLE CHAINRINGS:**
From 32 to 38 tooth.

3. **TIRES:**
The bike is equipped with 50 mm tires and offers compatibility for MTB tires up to 2.5 inches in the front and 2.25 in the rear.

4. **FORKS:**
The frame is engineered around 100 mm XC travel forks.

5. **BOTTLE CAGE HOLDERS:**
1 bottle cage holder on downtube (bottles up to 750 ml), 1 bottle cage holder on seat tube (bottles up to 500 ml).

6. **TYPES OF TRANSMISSIONS:**
The frame is compatible with Electronic and Mechanical groupsets, with internal cable routing. UDH hanger compatible.

7. **SEATPOST:**
The frame is equipped with 400 mm 30.9 seatpost which is only compatible with oval carbon rails.

8. **BRAKES SETUP:**
The bike has PM 160 front rotor and FM 160 rear rotor. The front fork can host up to 180mm rotors.

9. **HANDLEBAR (TALON ULTRA LIGHT):**
Size: S 42/90 | M 42/90 | L 44/100 | XL 44/100 (handlebar width measured end-to-end)
Drop: 125mm Reach: 80mm
Flare: 4°
Stem Angle: 8°

10. **CYCLOCOMPUTERS MOUNTS:**
The TALON ULTRA Light cockpit can be equipped with the dedicated front support interface, compatible with the majority of cyclomputers on the parmet.

7. OPTIONAL SETUPS

The GREVIL MX is designed as an adaptable platform.

Riders can further increase capability and confidence through several optional configurations:

Dropper Post Option (30.9 mm)

For riders tackling very steep or technical terrain, the frame accepts a 30.9 mm dropper post, which offers increased confidence on descents allowing for improved body positioning in technical sections.

Cockpit Transformation — Talon XC Compatibility

The frame is fully compatible with the Talon XC cockpit, enabling riders to convert the MX into a more MTB-oriented cockpit setup when desired.

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