

CANYON









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E-GRAVEL: ELECTRIFIED ESCAPE

Where drop-bar bikes were once the sole reserve of road racers, the gravel scene took the blueprint, and redefined the limits of drop-bar riding. Escaping traffic. Covering big miles off-road. Bikepacking trips spanning entire countries. Gravel opened up a whole load of opportunities to a lot of riders.

And at Canyon, we're now proud to be at the forefront of a new, exciting evolution in the world of gravel.

E-gravel is about using the extra power of a motor to add an extra dimension to everyday rides. Function in town. Action out of town. It lets riders escape their everyday routines – fast. To get a quick adventure fix by going off-grid and coming back again in a matter of hours, rather than a matter of days. The fastest line to the highest point.

THE NEW GRAIL:ON

Welcome to Canyon's first ever e-gravel bike. The Grail:ON.

A bike that takes the iconic design of the Canyon Grail gravel bike, and then applies it to the game-changing world of e-gravel riding. By combining the Grail's proven stable-yet-agile geometry with powerful, high-torque support from a Bosch Performance Line CX Gen4 drive system, the Grail:ON lets all riders quickly mix up their routine with a dynamic off-road riding experience.

WITH THE GRAIL:ON, ANY RIDER CAN MAKE THEIR OWN ADVENTURE. REGARDLESS OF TIME CONSTRAINTS.



reddot winner 2020
bicycle design

AN AUTHENTIC GRAVEL BIKE

One central challenge lay at the heart of the Grail:ON's development: how could we retain the original Grail's signature riding dynamics, despite the added power and weight of an e-drive system?

LOW CENTRE OF GRAVITY

The motor is positioned low down for a low centre of gravity – this creates a planted feel on fast descents, and added traction on technical steep climbs. Centrally balanced between the wheels, the added mass from the motor and battery arguably improves the handling of the Grail:ON, rather than hindering it.

LONG WHEELBASE

The Grail:ON gets its stable and composed riding dynamics by further extending the Grail's wheelbase. Measuring approximately 20 mm longer than the non-motorised Grail, this also creates more clearance around the frame for wide 50 mm tyres and mudguards, without toe overlap.

LONGER SEATSTAYS

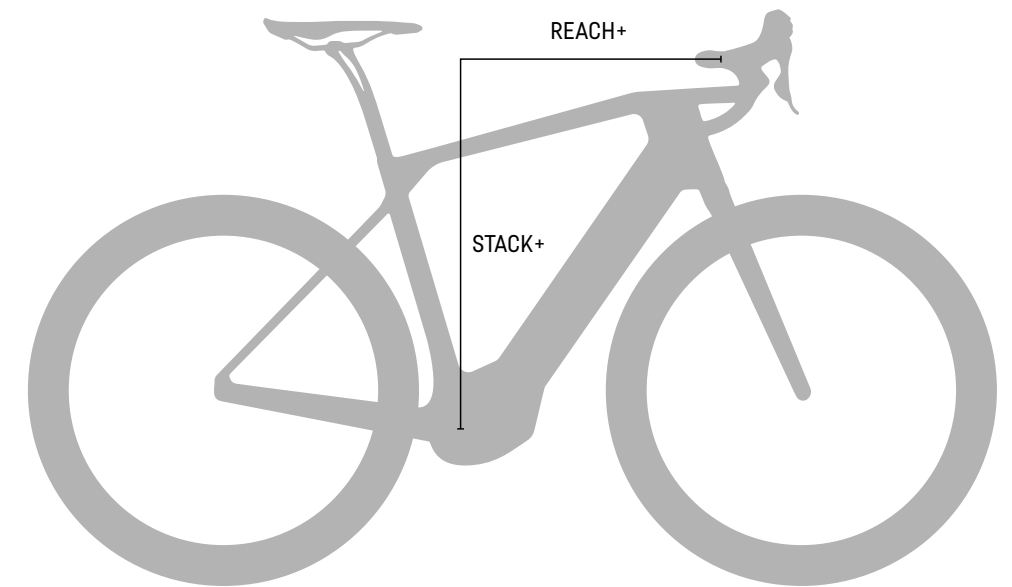
To further improve stability, we extended the chainstays by 15 mm compared to the Grail (size M). This keeps the handling rock-solid even when putting the power down on rough surfaces.

SHORT STEMS, WIDE BARS

Serving as counterbalance to the long wheelbase for agility, we gained inspiration from modern mountain biking trends. The Grail:ON has compact effective stem lengths combined with wide bars (75 mm and 440 mm in size M respectively).

OUR MOST RELAXED ROAD GEOMETRY

Compared to the Grail, we increased the Grail:ON's stack-to-reach ratio, creating a slightly more upright riding position. This reduces back and shoulder pressure for more comfort – while still delivering the same control and handling performance as the non-motorised line.



GRAIL:ON 1.53 Stack+ 686 mm Reach+ 449 mm	ENDURANCE 1.47 Stack+ 670 mm Reach+ 457 mm	GRAIL 1.44 Stack+ 660 mm Reach+ 457 mm	ULTIMATE 1.38 Stack+ 653 mm Reach+ 473 mm	AEROAD 1.33 Stack+ 637 mm Reach+ 479 mm
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SEVEN SIZES, CONSISTENT HANDLING

With seven frame sizes (2XS-2XL), riders from 156 cm to 200+ cm can get a Grail:ON that fits. And to create consistent riding dynamics and fit on our smallest sizes, we've applied our 650B wheel concept that also features on the non-motorised Grail on 2XS-S frames. Put simply, the rider gets the frame and wheel size that is perfectly suited to them.

**GRAIL:ON
1.53**

Stack+ 686 mm
Reach+ 449 mm





85 Nm
PEAK TORQUE

500 Wh
BATTERY CAPACITY

PEAK SUPPORT
340%
OF RIDER POWER

SUPPORT UP TO
32/25 kph
(USA/REST OF WORLD)

A POWERFUL, HIGH-TORQUE MOTOR

When you're at the forefront of a new kind of riding, creating a new type of e-bike, how do you know what motor is right? You go out, you test different setups, you experiment, and you see what works best.

From the outset, it was clear: e-gravel is about power, a big fun factor, and blasting up climbs. Having huge speed on tap. Playing with the kind of point-and-squirt e-bike performance that puts a smile on any rider's face.

The Bosch Performance Line CX Gen4 drive system, initially designed for e-mountain biking, ticks all the boxes. In Turbo mode, the motor provides support of up to 340% of the rider's own power, enough to let anyone blast up the steepest grades.

And with a huge 85 Nm of peak torque packaged in a relatively lightweight frame, the support is extremely punchy, which makes for an addictive 'just-one-more-burst' riding experience.

Four riding modes enable the rider to select the right setting for where they are riding. Motor support is progressive in all settings, simply meaning; the more you put in, the more you'll get out.

TURBO & SPORT: The two highest support settings deliver optimal power delivery at higher cadences for a more responsive feel.

TOUR & ECO: The two lowest settings are more cadence-neutral, with more consistent support no matter how fast you turn the pedals.



WITHIN REACH
The unique layout of the Double Decker bar enabled us to create a custom mount that fits on the lower bar and puts the motor's controls within thumb's reach. That way, the rider never has to remove their hands to toggle between different motor settings.



KITTED FOR THE DEMANDS OF E-GRAVEL

When you combine a powerful motor with a drop-bar, rigid-fork design, you need to specially select every component to ensure stable, confidence-inspiring riding dynamics.

HIGH-VOLUME TYRES: all models have large 50 mm Schwalbe G-One Bite tyres, 10 mm wider than the non-motorised Grail. This enables lower pressures and provides more shock absorption when you're ploughing across rough surfaces.

E-GRAVEL WHEELS: the Grail:ON exclusively features DT Swiss HG-series wheels. They are specifically designed and built for the demands of e-gravel, with stainless-steel spokes and strengthened hubs with steel parts that better withstand the torque put out by the motor.

BOOST REAR HUB: integrating a motor into the bottom bracket increases the bike's q-factor – the distance between crank arms. To compensate and create a straight chainline, we use wider Boost hubs on the rear. Additional benefits include more tyre clearance for mudguards and 50 mm tyres.

EXTRA BRAKE ROTOR CLEARANCE: all Grail:ON models feature powerful hydraulic discs with 160 mm rotors front and rear. And if you need even more braking power, you can fit a 180 mm rotors with an adapter.

DURABLE CARBON FRAME: not only does carbon allow us to achieve the Grail:ON's unique design, we can also create a stronger structure without adding excessive amounts of weight. In some places the frame's wall thicknesses exceed 4 mm, which is more what you would expect to see on a downhill bike. Nevertheless, the top spec Grail:ON 8 eTap tips the scales at 15.9 kg – exceptional for a high-torque system.





COMFORT ACROSS THE BOARD

Comfort is about more than a collection of individual features. It is a concept that has to be applied across the whole bike.

By focusing on key contact points – the rider with saddle and cockpit, and the bike with the ground – the Grail:ON systematically neutralises shocks and vibrations, keeping the rider fresh and comfortable on all surfaces.

TYRES

High-volume 50 mm tyres float across the rough. The supple casing of Schwalbe's latest G-One Bite rubber combined with low pressures (as low as 30 PSI/2 Bar) run tubeless result in a super smooth ride.

SADDLE AND SEATPOST

VCLS 2.0 leaf spring seatposts flex to absorb vibration while keeping a consistent tilt, so damping is effective yet unobtrusive. The clamp is located low in the seat tube, increasing the seatpost's bending length for more comfort.

DOUBLE DECKER COCKPIT

When you're riding a drop-bar bike over a variety of different surfaces, a cockpit with outstanding ergonomics is a must for comfort and control.

The Grail:ON's Double Decker cockpit offers four hand positions for grip across a wide range of on and off-road riding scenarios.

- Tops for cruising – floating construction absorbs chatter and vibrations
- Hoods for climbing and out-the-saddle efforts
- Locked-in on the base bar for rough, technical descents
- On the drops for getting low when the tempo picks up



DETAILS MAKE THE DIFFERENCE

Small details make a big difference in pursuit of a perfectly rounded bike. We pulled out all the stops to make the Grail:ON the most capable all-round e-gravel bike we could.

FRICION-FREE CABLE ROUTING

Internal cable routing results in a clean, refined look while also creating a completely protected system to keep everything clean in bad conditions.

MUDGUARD MOUNTS

We've created a custom set of mudguards for the Grail:ON. They are simple to fit and keep the rider as dry as possible. To stop the front fender brushing against the rider's foot, the frame features Plus Size Toe Clearance.

EXCLUSIVELY ONE-BY SHIFTING

A single-chainring setup delivers simplicity each time you shift, with wide gear ranges and better chain security on the rough.



FAQ

GENERAL

WHEN DOES THE EMBARGO EXPIRE ON THE GRAIL:ON? WHEN CAN JOURNALISTS PUBLISH STORIES AND PHOTOS FROM THIS PRESS LAUNCH?

The embargo will be lifted at 22 July 2020, 11:00 CET.

HOW MANY GRAIL:ON MODELS WILL THERE BE IN THE LINE-UP NOW AND WHAT WILL THEY COST?

There will be four Grail:ON models:

- Grail:ON CF 7 WMN
- Grail:ON CF 7
- Grail:ON CF 8
- Grail:ON CF 8 eTap

They will retail from € 4,999, making the Grail:ON incredible value for money for a e-gravel bike with the level of components.

Please double check prices in your markets with your local Canyon representatives before publishing.

HOW MANY SIZES ARE AVAILABLE?

The bike will be available in seven sizes: 2XS, XS, S, M, L, XL, 2XL.

The range covers the vast majority of riders: from 156 cm to 200+ cm.

IS THERE A WOMEN'S VERSION?

The Grail:ON CF 7 WMN is a unisex model, with women's-specific saddle and specially selected cockpit dimensions.

WHEN WILL THE NEW BIKE BE AVAILABLE TO THE PUBLIC?

The entire Grail:ON range will go on general sale on Wednesday 22 July 2020.

WHAT IS THE DIFFERENCE BETWEEN THE GRAIL:ON GRAVEL BIKE AND THE ENDURACE:ON E-ROAD BIKE?

The Grail:ON is designed for all-terrain riding, whereas the Endurace:ON is optimised for maximum performance on the asphalt. In terms of riding position, the Grail:ON is more relaxed, whereas the Endurace is slightly more performance focused. This is so Grail:ON riders can enjoy even more comfort, and Endurace:ON riders can enjoy a lower, more traditional position suited to the road.

The Grail:ON also features a high-torque Bosch motor that provides the extra power needed to surge up the short, sharp climbs that are a typical feature of gravel riding. Conversely, the Endurace:ON's low-torque Fazua motor provides more smooth background power, which puts the rider's own physical performance at the forefront and avoids high-torque surges for a natural feel. And the Grail:ON features chunky 50 mm off-road tyres and e-gravel specific rims, whereas the Endurace:ON's e-road-specific 32 mm slick tyres roll much faster on tarmac.





FRAME AND GEOMETRY

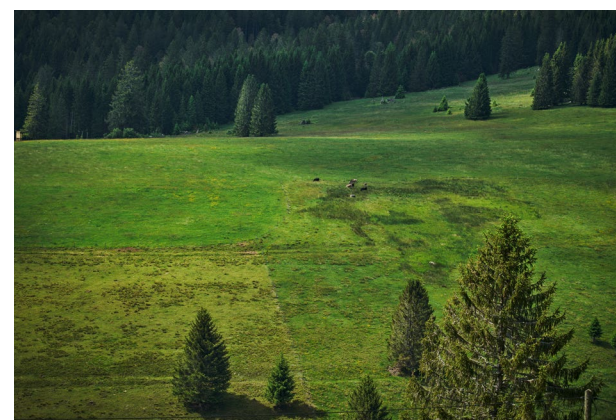
WHAT'S THE STORY WITH THE GEOMETRY?

We designed the Grail:ON's geometry to retain the original Grail's nimble-yet-stable riding dynamics while adding the Bosch Performance Line CX Gen4 motor system and making the bike even more comfortable for casual riders.

HOW DID WE DO IT?

We started by taking our proven Gravel Pro Geometry, which has featured on all Grail models to date. We then increased the effective stack-to-reach ratio, creating a slightly more upright riding position that gives the rider more confidence on rough surfaces, and reduces back and shoulder pressure for more comfort.

Next, we decided on a sleek in-tube battery design. While external batteries have the benefit of being quick and easy to remove, placing the Bosch battery inside the downtube lowers the Grail:ON's centre of gravity. We also integrated the motor down low in the bottom bracket area, making for an extremely planted, stable, confidence-inspiring ride on steep climbs and descents alike.



MOTOR & BATTERY

WHY DID WE PICK THE BOSCH PERFORMANCE LINE CX GEN4 DRIVE SYSTEM?

We decided to build our first e-gravel bike around a high-torque, high-power motor. It was important for us that the Grail:ON had enough power on tap to overcome any climb or obstacle that the rider could come across on the gravel, no matter their fitness level. Furthermore, we identified the added fun factor of a high-powered motor as an important part of what makes e-gravel such an exciting new way to ride.

The Bosch Performance Line CX Gen4 ticks all the boxes. In Turbo mode, the motor provides support of up to 340% of the rider's own power, enough to help all riders fly up the steepest grades. And with a huge 85 Nm of peak torque, the support is extremely powerful and punchy, which makes for an absolute blast.

CAN YOU CHARGE THE BATTERY WITH IT EITHER ON OR OFF THE BIKE?

You can charge the battery whether it's installed or removed from the bike. If you prefer to charge the battery by itself (in cases when you can't bring your bike within reach of an outlet), you can quickly and easily remove the battery in a matter of seconds. Just turn the key and remove the battery.

HOW LONG DOES IT TAKE TO CHARGE A FULLY DRAINED BATTERY?

We ship all Grail:ON bikes together with a Bosch Compact Charger. A full charge for the 500 Wh battery takes around eight hours, however new after-market chargers are also available that take as little as four, or even two hours and forty minutes to charge from empty, depending on electricity supply.

HOW FAST CAN I GO BEFORE THE MOTOR SUPPORT CUTS OUT?

Maximum motor-supported speed differs depending on country and region.

USA: 32 kph
Europe: 25 kph
ROW: region-dependent

Of course, you can ride at faster speeds, but only under your own power.





KEY COMPONENTS

WHAT ULTIMATELY SETS THE GRAIL:ON MODELS APART FROM OTHER E-GRAVEL BIKES?

The fact that the Grail:ON has been specifically designed and equipped for the demands of e-gravel riding from the ground up.

Some e-gravel bikes on the market are little more than e-road bikes with off-road tyres, or standard gravel bikes with the addition of a motor and few other design optimisations.

The Grail:ON, however, features smart e-gravel design decisions and component choices across the board, including:

- Proven gravel geometry taken from the award-winning Grail gravel bike
- The Double Decker bar, specially designed for the demands of off-road riding
- High-power, high-torque motor ready for sharp, steep off-road climbs
- More relaxed geometry for added confidence and stability with the extra motor power
- Robust e-gravel specific wheels and high-volume 50 mm tyres to retain traction and stability with the bike's extra power
- Internal cable routing

DO GRAIL:ON BIKES FEATURE ANY E-GRAVEL SPECIFIC COMPONENTS?

Yes, we have equipped Grail:ON bikes across the range for the demands of e-gravel.

- **SHIFTING:** Using exclusively one-by shifting set-ups makes for straightforward, fuss-free shifting across a broad range, clutch derailleur for no dropped chains.
- **BRAKING:** we use powerful hydraulic disc brakes for better control, power distribution and modulation. 160 mm rotors provide added stopping power, and for extra bite, it's possible to fit big 180 mm rotors with an adapter.
- **WHEELS:** robust DT Swiss HG-series e-gravel specific wheels for speed and durability. Stainless-steel spokes and strengthened Boost-standard hubs better withstand with increased torque generated by the motor.
- **TYRES:** Schwalbe's new 50 mm G-One Bite rubber offers the perfect mix of low rolling resistance, extra comfort, and big traction for those high-torque surges on loose ground.
- **THE DOUBLE DECKER** is laden with features to enhance control across all types of riding scenario, whether cruising on the tops or hammering on the drops.
- **VCLS 2.0 CARBON SEATPOSTS** proven split design flexes to take the edge off rough surfaces, improving control and rider comfort.



GEOMETRY & SPECS

	GRAIL:ON CF 7 WMN	GRAIL:ON CF 7	GRAIL:ON CF 8	GRAIL:ON CF 8 ETAP
RAHMEN	Canyon Grail:ON CF R068	Canyon Grail:ON CF R068	Canyon Grail:ON CF R068	Canyon Grail:ON CF R068
GABEL	Canyon FK064 (700C) / FK067 (650B)	Canyon FK064 (700C) / FK067 (650B)	Canyon FK064 (700C) / FK067 (650B)	Canyon FK064 (700C) / FK067 (650B)
MOTOR	Bosch Performance Line CX Gen4	Bosch Performance Line CX Gen4	Bosch Performance Line CX Gen4	Bosch Performance Line CX Gen4
AKKU	500 Wh	500 Wh	500 Wh	500 Wh
BREMSEN	Shmano GRX RX600	Shmano GRX RX600	Shmano GRX RX800	SRAM Force eTap AXS HRD
LAUFRÄDER	DT Swiss HG 1800 Spline DB	DT Swiss HG 1800 Spline DB	DT Swiss HG 1800 Spline DB	DT Swiss HGRC 1400 Spline DB
FELGENBREITE	24 mm	24 mm	24 mm	24 mm
REIFEN	Schwalbe G-One Bite 50 mm	Schwalbe G-One Bite 50 mm	Schwalbe G-One Bite 50 mm	Schwalbe G-One Bite 50 mm
SCHALTUNG	FSA Carbon 44	FSA Carbon 44	FSA Carbon 44	FSA Carbon 44
RD & KASSETTE	Shimano GRX 600 (11-42)	Shimano GRX 600 (11-42)	Shimano GRX 800 (11-42)	SRAM Force eTap AXS (10-36)
COCKPIT	Canyon CP0007 Double Decker	Canyon CP0007 Double Decker	Canyon CP0007 Double Decker	Canyon CP0007 Double Decker
SATTEL	Fizik Argo Tempo R5 150 mm	Fizik Argo Tempo R5 150 mm	Fizik Argo Tempo R5 150 mm	Fizik Argo Tempo R3 150 mm
SATTELSTÜTZE	Canyon S15 VCLS 2.0	Canyon S15 VCLS 2.0	Canyon S15 VCLS 2.0	Canyon S15 VCLS 2.0
FARBEN	Rosewood Red	Cloud Grey, Discovery Blue	Cloud Grey, Discovery Blue	Cloud Grey, Discovery Blue
GRÖSSEN	2XS - 2XL	2XS - 2XL	2XS - 2XL	2XS - 2XL
GEWICHT	17.1 kg	17.1 kg	16.7 kg	15.9 kg
PREIS	DE: 4,869*€ EUR: 4,999 €, GBP: £4,699, USD: \$5,149	DE: 4,869*€ EUR: 4,999 €, GBP: £4,699, USD: \$5,149	DE: 5,169*€ EUR: 5,299 €, GBP: £4,999, USD: \$5,449	DE: 5,849*€ EUR: 5,999 €, GBP: £5,699, USD: \$6,149

*Corresponding to temporary German VAT of 16%

	2XS	XS	S	M	L	XL	2XL
SITZROHRLÄNGE (MM)	432	462	492	522	552	582	612
OBERROHRLÄNGE (MM)	534	561	569	577	585	610	620
STEUERROHRLÄNGE (MM)	110	119	137	122	143	166	189
LENKWINKEL (°)	70	70.75	70.75	71.5	71.75	72	72.25
SITZROHRWINKEL (°)	73.5	73.5	73.5	73.5	73.5	73.5	73.5
KETTENSTREBENLÄNGE (MM)	425	425	425	440	440	440	440
RADSTAND (MM)	1023	1034	1043	1053	1059	1082	1090
STACK+ (MM)	635	647	665	686	708	731	754
REACH+ (MM)	397	412	430	449	466	485	503
STR	1.58	1.54	1.52	1.51	1.50	1.49	1.48
SPACER (MM)	15	15	15	15	15	15	15
VORBAULÄNGE (MM)	45	45	60	75	90	90	105
LENKERBREITE (MM)	400	420	420	440	440	460	460
KURBELLÄNGE (MM)	165	170	170	172.5	172.5	175	175
SATTELSTÜTZENDURCHMESSER (MM)	27.2	27.2	27.2	27.2	27.2	27.2	27.2
SATTELSTÜTZENLÄNGE (MM)	350	350	350	350	350	350	350
LAUFRADGRÖSSE	650B	650B	650B	700C	700C	700C	700C





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