



CAPABILITY

SWEAT

FUN

HOMETRAILS



ADVENTURE

POWER

NEURON:ONfly

SINGLE
TRACK
**SUPER
HERO**

CANYON



CANYON NEURON:ONfly



CANYON



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The Singletrack Superhero

The world is divided between heavier e-MTBs that deliver big power and svelte models that are appreciably lighter, but don't offer the same jaw-dropping boost of the full-power beasts.

Both flavors of traditional e-MTB are great – don't get us wrong – but it immediately got us wondering whether we could build a bike that straddled the elusive middle ground. We wanted a bike that combined the natural ride feel of a lightweight e-MTB with the mountain-gobbling pedal assist of a full-power bike.

So we got to work and made one.

The all-new NEURON:ONfly is that perfect combination of playful trail manners and raw power. Equipped with a sophisticated, carbon chassis and Bosch's compact-yet-mighty Performance Line SX drive unit, the NEURON:ONfly is the most versatile e-MTB we've ever made. It also happens to be a hell of a lot of fun.





Be the Pilot – Not the Passenger



Power is great. Know what's even better? Power that's entirely within your control. That's precisely what the NEURON:ONfly offers. At the heart of our new e-MTB is the Bosch SX drive unit, which brilliantly fills the void between featherweight light-assist motors and brawny, full-power units.

Despite being considerably lighter and 20% smaller than its full-power Performance Line CX sibling, the Performance Line SX provides you with up to 600 W of peak power. Or to be put that in less nerdified terms, the NEURON:ONfly drive unit cranks out the same kind of max power you'd normally only experience with a full-power motor.

What makes the Bosch SX drive unit unique is that it delivers its maximum power at higher cadences. In other words, the faster you pedal, the more power you get. Lower cadences deliver a lower power boost ... just like on a non-motorized mountain bike.

With the NEURON:ONfly, you're in complete control of the power delivery. You're the pilot, not the passenger.

Seamless Design

Historians won't be kind when they look back on the bike industry's early attempts at grafting motors and batteries to mountain bike frames. Bloated, unwieldy, and poorly balanced, the first e-MTBs that lumbered out of the primordial goop had one thing going for them – power. If you bought one of those first e-MTBs back then, you did it for the boost not the beauty.

The NEURON:ONfly is an entirely different (and stunning) kind of beast. Its design language is decidedly sophisticated. Drawing inspiration from our Neuron CF trail bike, the NEURON:ONfly sports sleek lines that flow organically from front to rear.

Our latest e-MTB hits the mark with its clean silhouette, low weight, and slim profile. If all of that sounds shallow, well, go ahead and call us superficial, but we think you should be as bowled over by a bike's beauty as you are by its on-trail performance. This is a bike that delivers both.



CANYON NEURON:ONfly

Small Motor. Massive Performance.



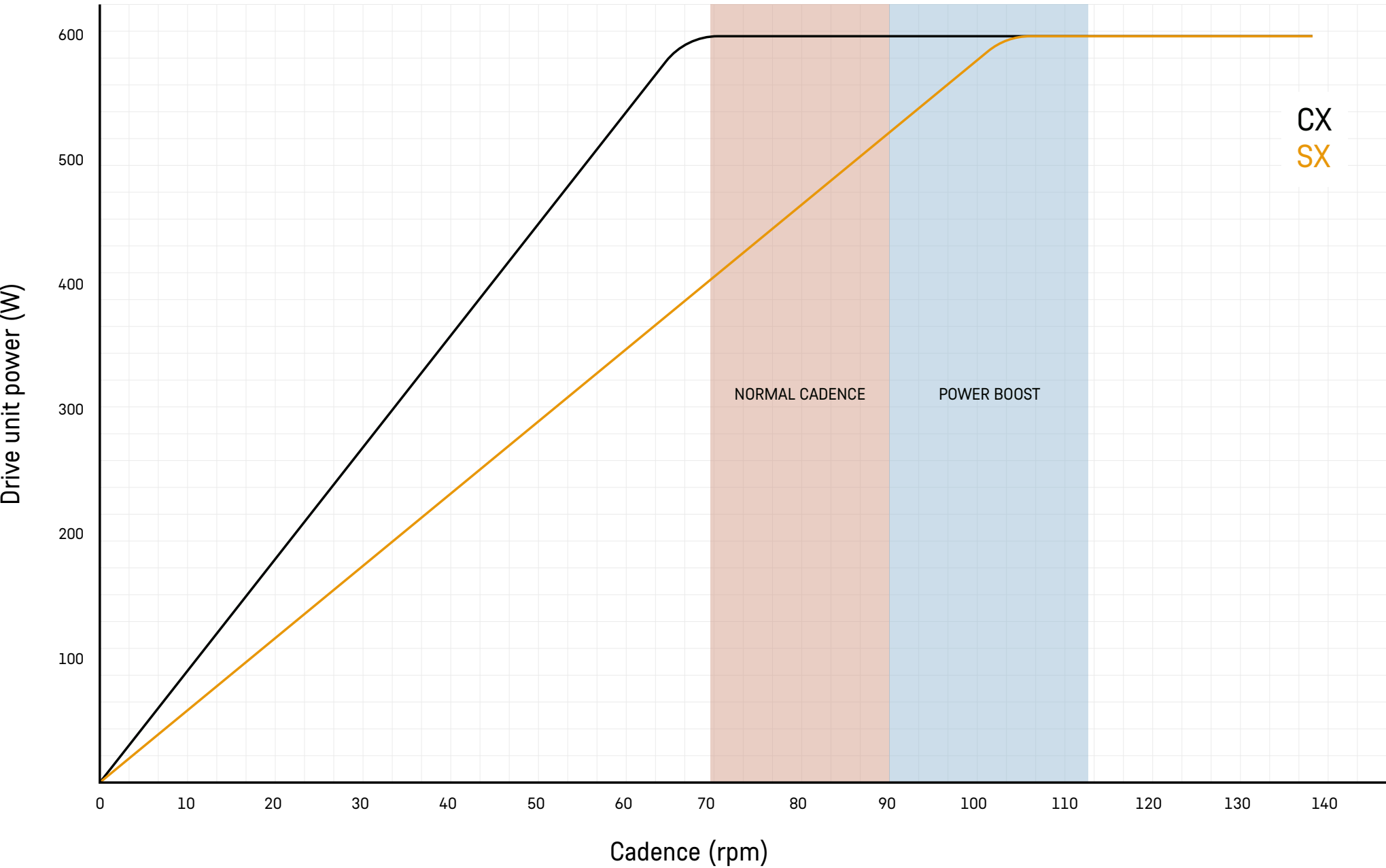
There are plenty of great drive units on the market and each has its merits. So why did we pair the NEURON:ONfly with the new Bosch Performance Line SX? Because Bosch's latest motor enabled us to create an e-MTB that combines the natural feel of a conventional mountain bike with the raw power of a full-power e-MTB.

The Bosch SX drive unit is unusual in that it offers an impressive 600 W of peak power – just as much as Bosch's full-power Performance Line CX while weighing 900 grams less than its larger sibling. Moreover, the SX drive unit delivers its power uniquely, giving you max power when you're turning the pedals at more than 100 RPM.





BOSCH PERFORMANCE LINE SX



The NEURON:ONfly is a bike for riders who want to go far and go fast while pushing their own limits. Yes, there's a lot of power on tap here – significantly more than what you can receive from the vast majority of light-assist drive units – but that power doesn't come on if you are faffing about, spinning lazy circles, and smelling the roses. This is a motor that rewards an active, natural ride style.

The Bosch SX motor ramps up its power and reacts sensitively and directly to your input. Thanks to state-of-the-art sensor technology, the system detects every riding situation and adjusts accordingly. Never before has an e-bike felt so natural.

Finally, the SX drive unit features a narrow Q-factor of 160 mm. Bringing the pedals closer together also contributes to the NEURON:ONfly's natural feel out on the trail.



Bring On the Big Rides

Range anxiety, that nagging dread that you might wind up stranded in the backcountry with a dead battery, is a real thing. We get it, which is yet another reason why chose the Bosch SX system for the NEURON:ONfly. At first glance, that choice may seem counterintuitive. The NEURON:ONfly sports Bosch's CompactTube 400 battery. Compared to larger, heavier 625, 750 or 900 Wh batteries, Bosch's new, light-weight 400 Wh battery may seem downright diminutive, But the CompactTube 400 battery boasts the highest energy density of all Bosch e-bike batteries. As a result, the NEURON:ONfly's ultra-efficient battery makes it possible to knock off an impressive 1,000 meters (3,280 feet) of climbing on a single charge, even in turbo mode*.



CompactTube 400



PowerMore Range Extender

Want to ride further still? No problem. The NEURON:ONfly is also compatible with Bosch's PowerMore 250 Wh range extender. Simply attach Bosch's range extender to the down-tube waterbottle mount, connect the extender cable to the NEURON:ONfly's charging port, and – voila – you've boosted the bike's range by more than half.

*Depending on rider weight, riding style and environmental conditions.



Get (and Stay) Connected

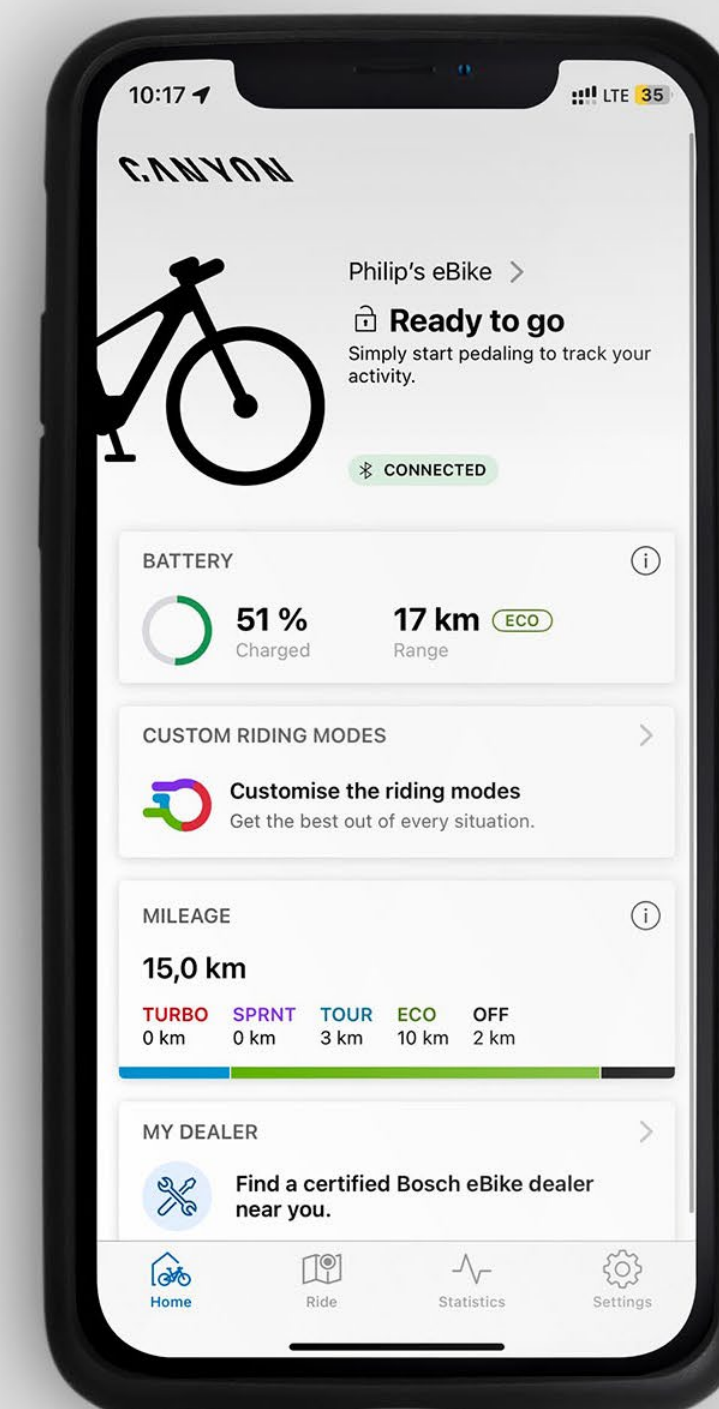
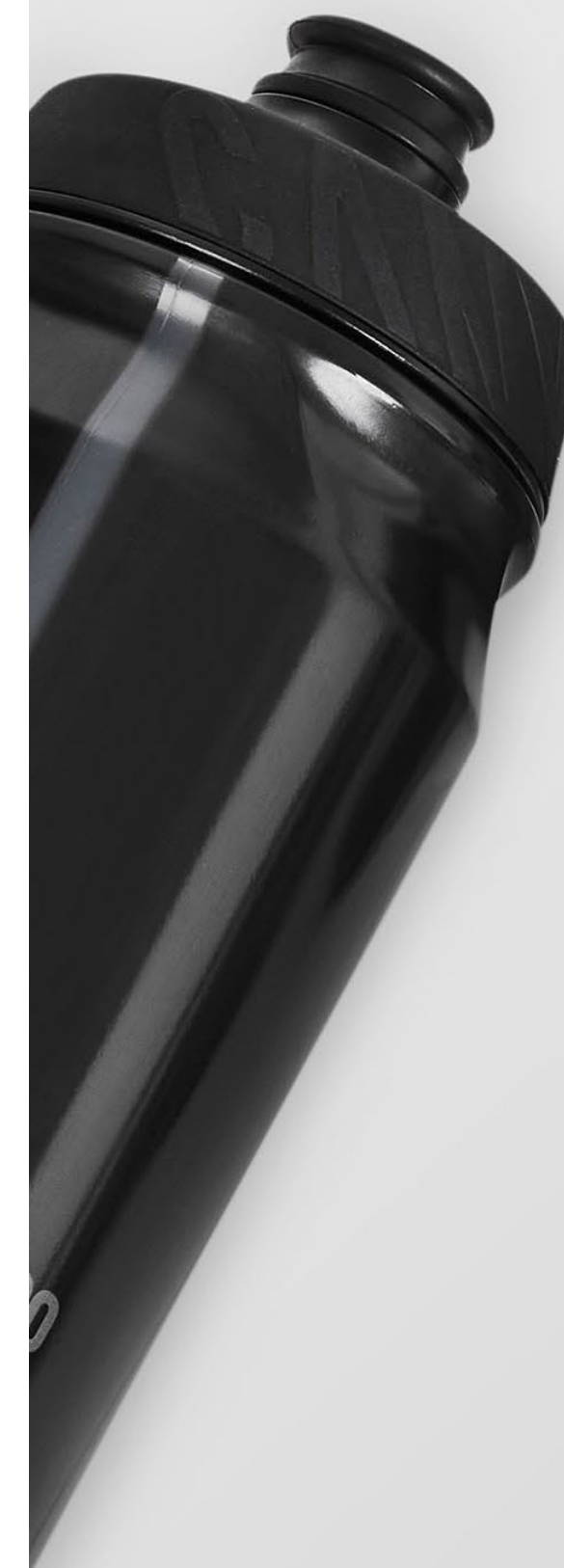
Bosch's Smart System connects all parts of the motor system and creates a connection between your smartphone and the NEURON:ONfly. You can get your software updates "over-the-air" and via the Bosch ConnectModule, the NEURON:ONfly is also connected via GPS.

The Bosch eBike Flow app is the control center for all functions of the Smart System. In the app, you can fine tune the motor performance precisely to your preferences.

Bosch's anti-theft and tracking functions are also big benefits. Both are possible via the ConnectModule with the eBike Flow app. You can get the perfect complement to a mechanical lock via the app, which lets you lock and unlock your bike electronically.

If you switch off your NEURON:ONfly, the alarm is automatically activated. At the slightest movement, it produces a warning sound to deter potential thieves. If your NEURON:ONfly moves significantly, the system notifies you immediately on your smartphone. The tracking feature is automatically enabled which allows you to follow the position of your bike live via the eBike Flow app.

With your NEURON:ONfly, you get the Flow+ subscription (with all functions) free of charge for 12 months. The subscription ends automatically at the end of the 12 months unless it is renewed for €4.99 per month or €39.99 per year.



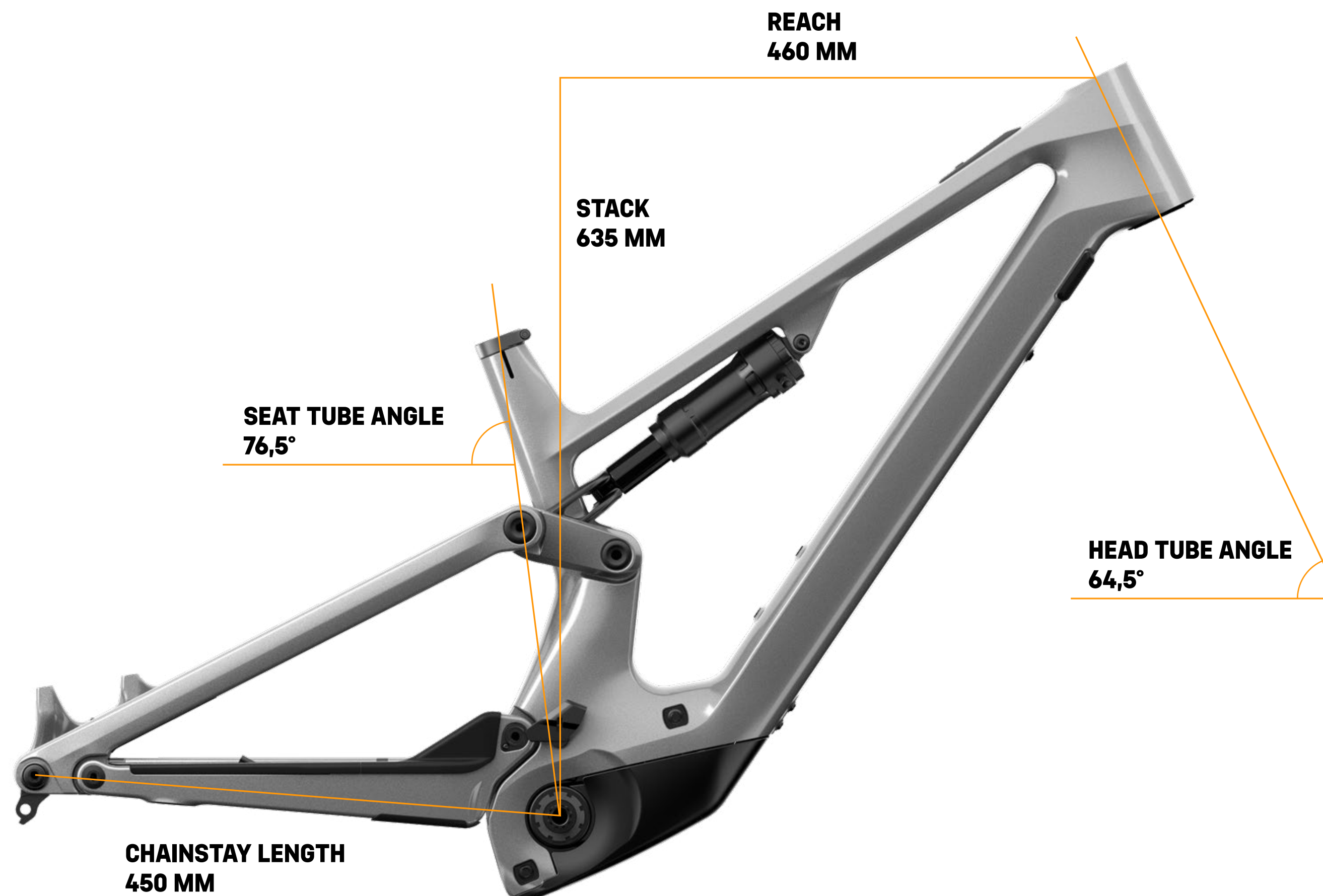


Ride-Fast Geometry

The NEURON:ONfly is squarely a part of the NEURON family. Based on that shared DNA, we developed this bike from the ground up with a focus on giving you maximum control and speed on any trail.

The NEURON:ONfly's reach is long, but not overly stretched out. As a result, a wide range of riders can climb aboard and immediately feel at home on the bike. The slack head angle stabilizes you at high speeds while the excellent weight distribution ensures balanced handling. To keep you low and secure on the bike, we've lowered the bottom bracket by 35.5 mm and have designed the stack at a moderate 635 mm, so that the front-end never feels too high.

The NEURON:ONfly frame is low slung with a steeply-sloping top tube that gives you plenty of standover clearance and makes it easier to throw the bike around. We also gave our latest e-MTB a short seat tube, which enables you to run long dropper posts for even more maneuverability on steep descents.



Geometry

	<u>XS</u>	<u>S</u>	<u>M</u>	<u>L</u>	<u>XL</u>
Body Height (mm)	1580 – 1660	1660 – 1750	1750 – 1830	1830 – 1920	1920 – 2000
Seat Height (mm)	680	720	760	800	840
Top Tube Length (mm)	556	585	612	640	667
Head Tube Length (mm)	110	120	130	140	150
Head Tube Angle (°)	64.5	64.5	64.5	64.5	64.5
Seat Tube Length (mm)	392	405	415	445	455
Seat Tube Angle (°) – acutal	68.2	68.7	69.4	69.9	70.3
Seat Tube Angle (°) – effective	76.5	76.5	76.5	76.5	76.5
Chainstay Length (mm)	450	450	450	450	450
Wheelbase (mm)	1179	1213	1242	1271	1301
Stack (mm)	608	626	635	644	652
Reach (mm)	410	435	460	485	510
Stand-over Height (mm)	757	768	772	776	779
BB Drop (mm)	35.5	35.5	35.5	35.5	35.5
BB Height (mm)	340	340	340	340	340
Spacer (mm)	15	15	15	15	15
Stem Length (mm)	45	45	45	45	45
Handlebar Width (mm)	740	760	760	780	780
Handlebar Rise (mm)	20	20	20	20	20
Crank Arm Length (mm)	170	170	170	170	170
Seatpost Diameter (mm)	34.9	34.9	34.9	34.9	34.9
Seatpost Length (mm)	150	170	200	200	230
Seatpost Insertion Depth (mm)	90	120	150	150	190
Max. Seatpost Insertion Depth (mm)	225	245	275	275	315
Wheel Size	29"	29"	29"	29"	29"
Brake Disc Size (mm)	200 / 200	200 / 200	200 / 200	200 / 200	200 / 200
Front Travel (mm)	130	140	140	140	140
Rear Travel (mm)	130	140	140	140	140





Perfect Performance at Every Size

Simple truth – riders come in all heights, from miniscule to monstrous. That's why we built the NEURON:ONfly in five different frame sizes. With sizes ranging from XS to XL, the NEURON:ONfly fits riders from 1.58 m to 2.00 m (5'2" to 6'5"). Most importantly, every frame size boasts the same outstanding performance – even the XS frame, which offers 130 mm of front and rear suspension travel. While shaving 10 mm of travel from the XS frames may seem a trivial design tweak, that adjustment ensures that the smallest of riders enjoy both the NEURON:ONfly's outstanding agility and the rollover benefits of front and rear 29" wheels.



Stellar Suspension

The NEURON family DNA is clear in every bike that bears that name. Example? Our NEURON models are renowned for a ride quality that's at once smooth over rocky trails yet remarkably efficient when you put power to the pedals.

The NEURON:ONfly is cut from the same cloth. Whether the power is coming from the motor or your legs, we don't believe a single watt should ever be wasted. That's why we evolved the NEURON:ONfly's Triple Phase Suspension design to feature a higher degree of anti-squat that helps combat the kind of pedal-induced, suspension bob that robs you of power and speed.





You might be asking why anti-squat even matters here. We're talking about an e-MTB after all ... Doesn't the power from the bike's Bosch motor compensate for any unwanted suspension movement? You might think so, but bear in mind that the Bosch SX motor delivers its maximum power at higher cadence. As you can guess, any-time you're spinning the pedals at those higher cadences, you're usually going to introduce more unwanted movement in the rear suspension.

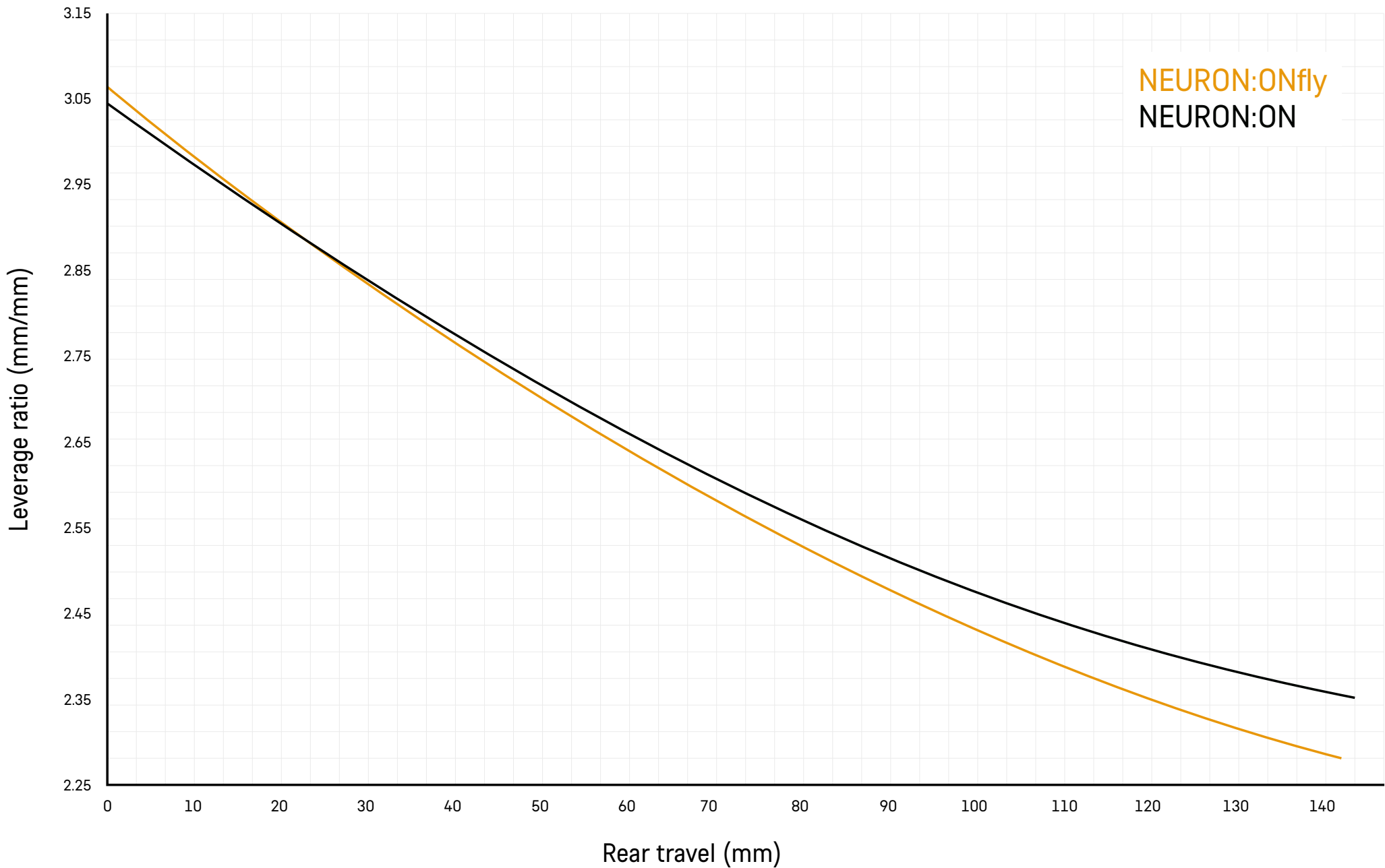
We wanted the NEURON:ONfly to, well, fly when you are pedalling hard and fast up a climb or in a sprint. Consequently, building a bit more anti-squat into this version of the Triple Phase Suspension design ensures that the NEURON:ONfly is always transferring as much of your power to the rear wheel as possible.

And what about those times when you are tearing down a rocky descent and you aren't turning

the pedals? Well, then (and even when you are pedalling at slower cadences), the suspension remains smooth and buttery in its midstroke.

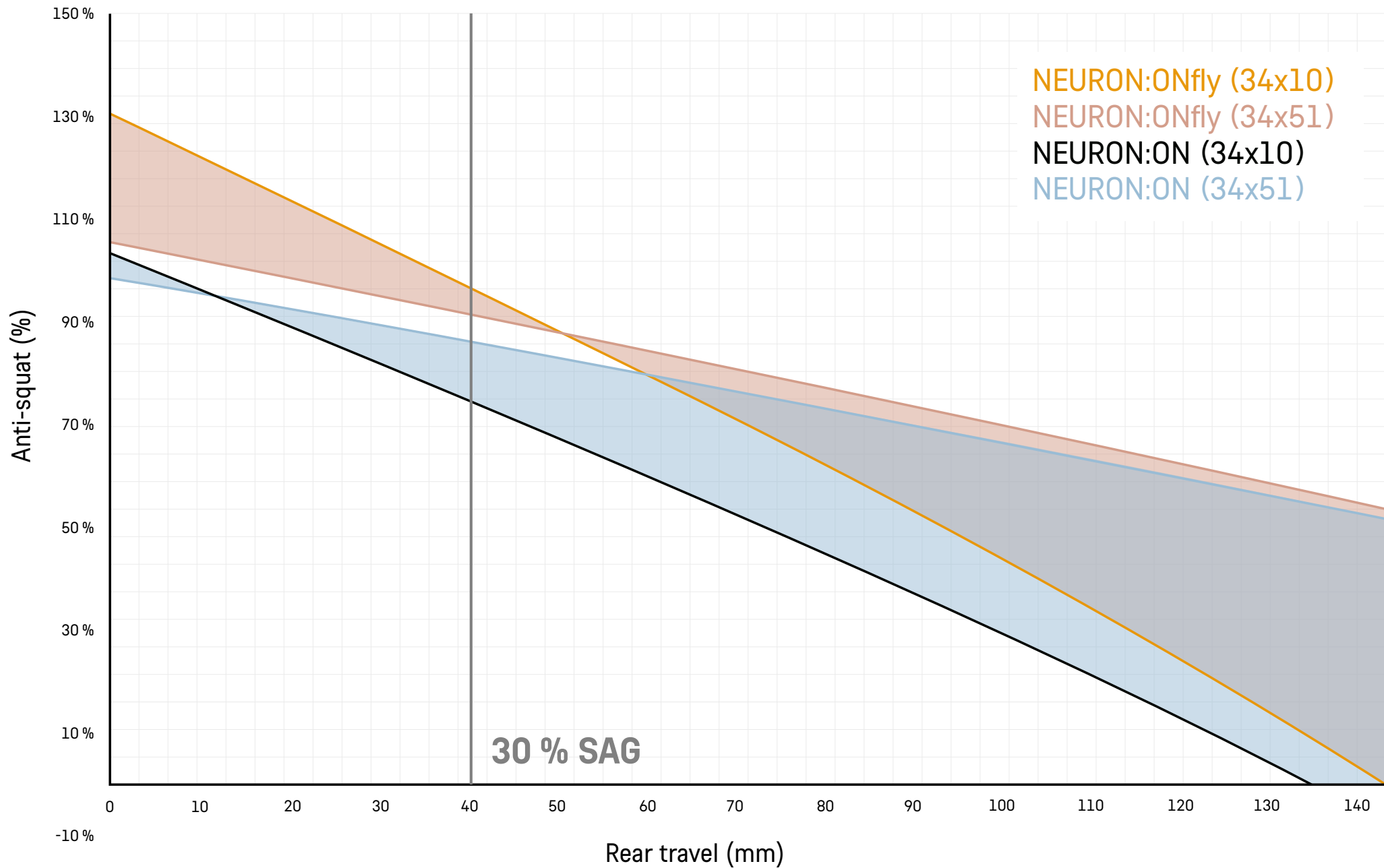
Finally, the genius of the Triple Phase Suspension is that it offers just the right amount of progression. As a result, the NEURON:ONfly resists blowing through its last bit of suspension travel and bottoming out on big hits.

LEVERAGE RATIO



ANTI-SQUAT

CoG 800 mm above BB





Every Detail Matters



Downtube Bumper

Think of it as extra insurance – if the forces on the IPU are too great during a crash, the downtube bumper protects the down tube from contact with the fork. This rubber stop blocks the fork if it should rotate under the down tube.



Rattle-Free Routing

The NEURON:ONfly is quiet. Not only is the motor remarkably mum, we also went to pains to ensure that the cables don't rattle within the frame. To prevent the cables from making a racket, each is firmly routed within the frame in PU hoses, which keep the cables where they belong. In the down tube, the guide is even laminated into the carbon.



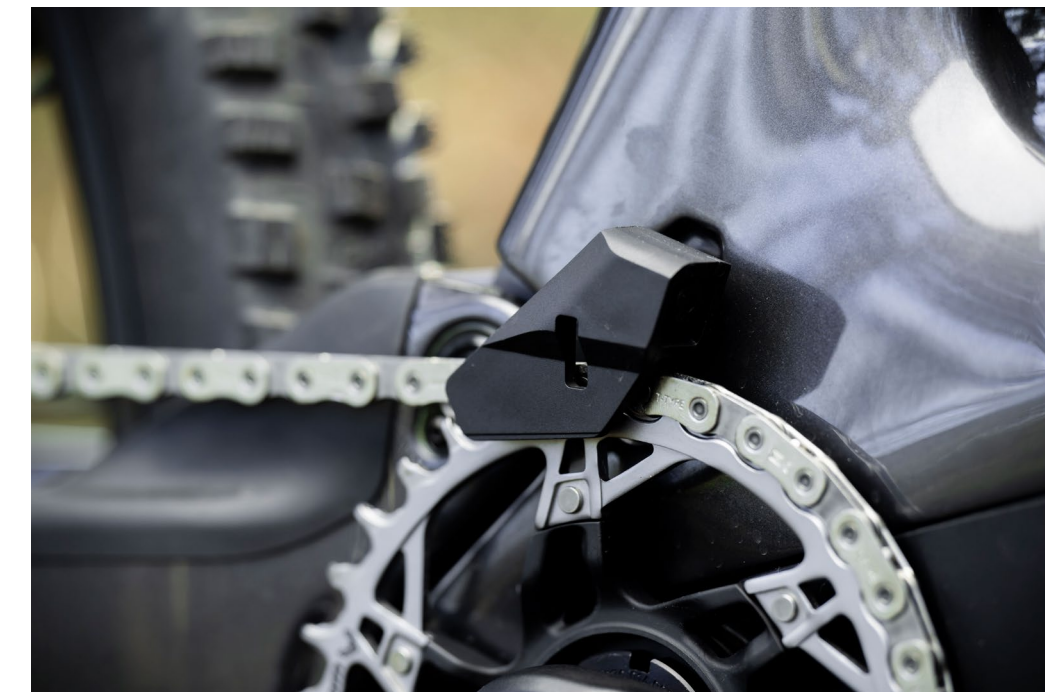
Impact Protection Unit

Crashes happen – there's no stopping that – but we can stop the handlebar from mangling the top tube during a crash. The NEURON:ONfly, features an Impact Protection Unit (IPU) within the head tube that stops the rotation of the fork before the handlebars and frame can touch one another.



Silent Protection

We gave the seat and chainstays extensive protection against chain impacts. The chainstay protector runs from the Horst-link to the yoke, ensuring that the entire chainstay is covered. This keeps the chainstay pristine and dampens the annoying sound of chain slap.



Integrated Chain Guide

We've outfitted the NEURON:ONfly with a compact chain guide that keeps the chain securely on the chainring. Even when you're flying at Mach Chicken speeds over rough terrain or sprinting up a climb, your chain stays where it's supposed to be.



The NEURON:ONfly line-up

The NEURON:ONfly will be available in four variants in all countries outside the United States. All four models are uncompromisingly equipped and deliver unrivalled bang for your buck. The top-shelf NEURON:ONfly CF LTD, for example, sports Fox's pinnacle Factory Kashima suspension and Reynolds' ultralight Blacklabel Trail carbon wheelset.

The NEURON:ONfly CF8 is also equipped with Fox suspension. The CF9 and CF7 models feature Rock Shox suspension and are available with both Shimano and SRAM drivetrains. The CF7, in particular, brings an unequalled combination of power and performance to a price point rarely occupied by either light or mid-assist e-MTBs.

For 2024, the NEURON:ONfly will be offered strictly as the CF7 within the United States.



NEURON:ONfly CF LTD • SHINING MAGENTA



NEURON:ONfly CF 9 • SPACE GRAY



NEURON:ONfly CF 8 • UTOPIAN GREEN



NEURON:ONfly CF 7 • DIGITAL CHERRY



Specs

	NEURON:ONfly CF LTD	NEURON:ONfly CF 9	NEURON:ONfly CF 8	NEURON:ONfly CF 7
Motor	BOSCH Performance Line SX (600 W, 55 Nm)	BOSCH Performance Line SX (600 W, 55 Nm)	BOSCH Performance Line SX (600 W, 55 Nm)	BOSCH Performance Line SX (600 W, 55 Nm)
Battery	BOSCH Compact PowerTube 400 (Range extender option with 250 Wh)	BOSCH Compact PowerTube 400 (Range extender option with 250 Wh)	BOSCH Compact PowerTube 400 (Range extender option with 250 Wh)	BOSCH Compact PowerTube 400 (Range extender option with 250 Wh)
Connect Module	BOSCH Connectivity Module (Anti-Theft)	BOSCH Connectivity Module (Anti-Theft)	BOSCH Connectivity Module (Anti-Theft)	BOSCH Connectivity Module (Anti-Theft)
Fork	FOX 34 Factory, 140 mm (S–XL) FOX 34 Factory, 130 mm (XS)	Rock Shox Pike Ultimate, 140 mm (S–XL) Rock Shox Pike Ultimate, 130 mm (XS)	FOX 34 Performance, 140 mm (S–XL) FOX 34 Performance, 130 mm (XS)	Rock Shox Pike Base, 140 mm (S–XL) Rock Shox Pike Base, 130 mm (XS)
Shock	FOX Float Factory, 140 mm (S–XL) FOX Float Factory, 130 mm (XS)	Rock Shox Deluxe Select+, 140 mm (S–XL) Rock Shox Deluxe Select+, 130 mm (XS)	FOX Float Performance, 140 mm (S–XL) FOX Float Performance, 130mm (XS)	Rock Shox Deluxe Select+, 140 mm (S–XL) Rock Shox Deluxe Select+, 130 mm (XS)
Groupset	SRAM Eagle Transmission XX AXS, 12s	SRAM Eagle Transmission GX AXS, 12s	Shimano Deore XT, 12s	Shimano Deore, 12s
Brakes	SRAM Code Ultimate Stealth, 4 Piston (200 mm)	SRAM Code Silver Stealth, 4 Piston (200 mm)	Shimano MT8120, 4 Piston (203 mm)	SRAM Code R, 4 Piston (200 mm)
Wheels	Reynolds Trail 329 Blacklabel Expert 29er	DT Swiss HX1700 LS 29er	SunRingle 329 Expert, 29er	Rodi TRYP30 EVO (SHM TC600 HUB), 29er
Seatpost	SP0070-01 (XS: 150 mm, S: 170 mm, M–L: 200 mm, XL: 230 mm)	SP0070-01 (XS: 150 mm, S: 170 mm, M–L: 200 mm, XL: 230 mm)	SP0070-01 (XS: 150 mm, S: 170 mm, M–L: 200 mm, XL: 230 mm)	SP0070-01 (XS: 150 mm, S: 170 mm, M–L: 200 mm, XL: 230 mm)
Handlebar	CANYON HB0056-01 AL (XS: 740 mm, S–M: 760 mm, L–XL: 780 mm)	CANYON HB0056-01 AL (XS: 740 mm, S–M: 760 mm, L–XL: 780 mm)	CANYON HB0056-01 AL (XS: 740 mm, S–M: 760 mm, L–XL: 780 mm)	CANYON HB0056-01 AL (XS: 740 mm, S–M: 760 mm, L–XL: 780 mm)
Stem	CANYON ST0031-01, 45 mm	CANYON ST0031-01, 45 mm	CANYON ST0031-01, 45 mm	CANYON ST0031-01, 45 mm
Colors	Shining Magenta	Space Gray	Space Gray, Utopian Green	Space Gray, Utopian Green, Digital Cherry
Sizes	XS, XS, S, M, L, XL	XS, XS, S, M, L, XL	XS, XS, S, M, L, XL	XS, XS, S, M, L, XL
Weight	19,1 kg 20,6 kg (+250 WH range extender)	19,9 kg 21,4 kg (+250 WH range extender)	19,6 kg 21,1 kg (+250 WH range extender)	20,4 kg 21,9 kg (+250 WH range extender)

FAQ

When will the embargo on the brand new NEURON:ONfly be lifted?

The embargo ends on 25.04.2024 at 11:00 CET.

When will the NEURON:ONfly be available?

From 25.04.2024, the NEURON:ONfly will be available on canyon.com

What kind of bike is the NEURON:ONfly?

The NEURON:ONfly is a versatile trail e-MTB that boasts a unique blend of lively handling and powerful pedal assist. The NEURON:ONfly sports 140 mm of front and rear suspension travel and 29" wheels, it's the sportiest e-bike we've ever built.

What does the ideal rider for the NEURON:ONfly look like?

The NEURON:ONfly is made for riders who want plenty of power to tackle big climbs and long rides at speed, but who aren't content to simply pedal slowly and let the motor do all the work. The Bosch Performance Line SX drive unit, which you'll find on the NEURON:ONfly, is most efficient at higher pedaling cadences, which means that it delivers maximum pedal support when riders are taking an active approach to riding and are pedaling fast.

If you are one of those riders who thinks e-bikes are "cheating", but are intrigued by the idea of being able to multiply your pedalling power and cover big distances in no time at all, this is the bike for you.

What is the greatest strength of the NEURON:ONfly?

The NEURON:ONfly rides like a conventional mountain bike yet still has the power of a full-power e-bike. It's the best of both worlds.

Neuron – one family, many members. How are the three Neuron platforms positioned?

NEURON

The NEURON is an efficient piece of sports equipment and a lightweight option in its class. Above all, however, the NEURON is one thing: a mountain bike. You could also say: that it's the mountain bike. It's a long-distance machine that doubles as a do-it-all mountain bike. You could also simply call it "a trail bike".

NEURON:ON

With the full-power NEURON:ON, you can climb higher, pedal farther and explore more. This bike is a true trail e-MTB for all-day adventures. With 140 mm of travel and trail-specific geometry, the NEURON:ON CF increases the flow factor on any singletrack. The lightweight chassis glides over bumps on 29er wheels without feeling sluggish when you let the power off the leash. This model is not available in the U.S.A.

NEURON:ONfly

The NEURON:ONfly is the best of both worlds. It boasts the lively ride quality of a classic trail bike and yet still has the power of a high-torque e-bike. This nimble trail e-bike is tuned for speed. More trails, in less time.



What technical specifications of the NEURON:ONfly should you know?

- 4 models in the NEURON:ONfly line-up. All models have a carbon frame and come with a 400 Wh battery.
- 5 frame sizes: XS, S, M, L, XL
- For body heights of 1.58 m – 2.00 m
- Wheel Size: 29"
- Travel: 140 mm (XS – 130 mm)
- Head angle: 64.5°
- Seat angle: 76.5°
- Chainstay length: 450 mm
- Rear axle: 12 x 148 mm Boost

- Damper dimensions: 210 x 55 mm (size XS – 210 x 50 mm)
- Seatpost diameter: 34.9 mm
- ISO Safety Standard: Category 3e
- Total weight: 130 kg
- Category: Trail E-Bike



Geometry & Equipment

What frame sizes are available?

The NEURON:ONfly comes in five frame sizes, from XS to XL. This means that we cover a size range from 1.58 m to 2.00 m. We are particularly proud of the fact that all frames have very short seat tubes and low slung top tubes. As a result, all riders benefit from the bike's outstanding maneuverability.

[Geometry Table](#)



Why is the NEURON:ONfly available in size XS?

We see huge potential in the small frame sizes – this applies to both XS and S. Small riders in particular benefit from a lightweight e-bike. The rider-to-bike weight ratio of the NEURON:ONfly is much more balanced than that of a full-power e-bike. Thanks to the XS frame size, even smaller people can enjoy a truly capable e-MTB.

Are there any differences between XS and the other sizes?

Yes, the XS frame differs from the other frame sizes in a few ways. We've perfected the XS frame for small riders in every way. The XS bikes also uses 29" wheels, but has less travel with front and rear travel at 130 (instead of 140) mm. This keeps the proportions between bike and rider spot on. The shock dimensions also differ from the other sizes with the XS frame having a shock with dimensions of 210 x 50 mm.

Why does the NEURON:ONfly have such a voluminous seat tube?

The seat tube builds up a lot of volume towards the motor. Due to the tube cross-section, the frame is very stiff in this area. In addition, the short but voluminous seat tube offers enough installation space to mount long dropper posts on the NEURON:ONfly.

Which dropper post is installed in the NEURON:ONfly?

The NEURON:ONfly comes with our new CANYON SP0070-01 dropper post, this post is also installed in the new SPECTRAL CF. It offers plenty of travel and a clamping diameter of 34.9 mm. We use dropper posts with size specific travel across the range of bikes.

- XS: 150 mm
- S: 170 mm
- M/L: 200 mm
- XL: 230 mm

Does the frame have space for a water bottle?

Yes, the front frame triangle offers plenty of space for a water bottle. All frame sizes offer space for water bottles up to 600 ml and from frame size M, even bottles up to 750 ml can be accommodated.

How much do the four different models weigh?

- NEURON:ONfly CF LTD: 19,1 kg (M)
- NEURON:ONfly CF9: 19,9 kg (M)
- NEURON:ONfly CF8: 19,6 kg (M)
- NEURON:ONfly CF7: 20,3 kg (M)

How are the four different NEURON:ONfly models equipped?

[Spec list](#)

Motor system

What are the characteristics of the Bosch SX motor?

The Bosch SX motor weighs less than 2 kg, generates 55 Nm of torque and has a maximum power of 600 W. In addition, the design is very compact, so it attaches to the frame with only two mounting points.

How does the motor kick when switched off?

Compared to a Bosch CX motor, the pedalling resistance has been reduced by a further 50 %. This means you feel almost no resistance when pedalling without motor support.

Which battery is installed?

A Bosch CompactTube 400 battery is installed in the down tube of the NEURON:ONfly. The battery cannot be removed without first dropping the motor.

Is there a range extender?

Yes, the NEURON:ONfly is compatible with the Bosch PowerMore 250 Range Extender. The PowerMore Range Extender has a base plate that screws to the bottle cage eyelets in the down tube. The base plate works via a click mechanism and there is also a bottle cage. The battery and bottle cage can therefore be easily replaced.

Can the bike be powered by a lighting system powered by the main battery?

The Bosch Smart System can provide the energy for lighting. However, the NEURON:ONfly models do not have a connection cable for this. To power a light from the main battery, an extra cable is required.



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