



A division of
Fallbrook
Technologies

WE MOVE PEOPLE BETTER

with our stepless and automatic shifting products.



www.nuvincicycling.com





ABOUT US

NuVinci® Cycling, a division of Fallbrook Technologies Inc., aims to move people better through its product portfolio of stepless, automatic and integrated shifting products for bicycles and eBikes.

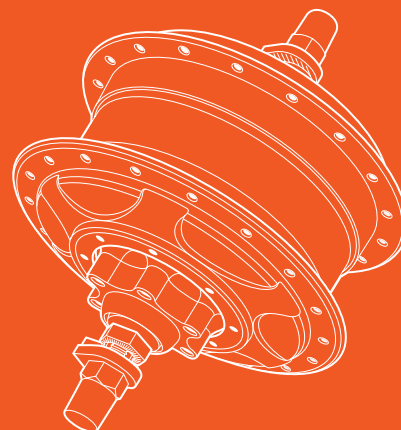
The first commercial product incorporating NuVinci® technology was the N170™ continuously variable transmission (CVT) for bicycles introduced in September 2006, followed by the lighter weight and smaller N360™ model in 2010, and the Harmony™ auto-shifting system for bicycles (incorporating the N360) in 2011.

Current NuVinci Optimized™ cycling products include the Nfinity™ and *Harmony* group sets, which comprise newer versions of the transmissions and controllers. *NuVinci Cycling* products are available in over 100 bicycle brands.

Fallbrook Technologies Inc. is the developer of the patented *NuVinci* continuously variable planetary (CVP) technology, which can improve the performance and efficiency of machines that use a transmission, engine, pump, motor or gear – including bicycles, cars and trucks, industrial equipment and many others.

Fallbrook, with its development community, provides the technology, tools, and know-how to help companies quickly move from R&D to market commercialization. In 2006, *NuVinci Cycling*, a division of Fallbrook Technologies, was formed to support and sell the *Nfinity* bicycle transmission and the *Harmony* auto-shifting system for bicycles.

Fallbrook is based in Cedar Park, near Austin in the U.S. state of Texas, and holds rights to over 800 patents and patent applications worldwide.





IT'S ALL ABOUT THE NuVinci® HUB.

The NuVinci transmission technology is revolutionary and takes cycling to the next level. The special NuVinci *Optimized* hub features rotating balls that, over its ratio range, permit an infinite number of ratios between incoming power (from the pedals) and outgoing power (via the chain on the bike). A manual or automatic controller tilts the balls on the horizontal axis, causing the gear ratio to change, and the rider lets up or applies pressure to the pedals accordingly. As a result, damaged shift cables and maintenance to fix malfunctioning gears are a thing of the past. With the continuously variable NuVinci *Optimized* transmission, cyclists will progress effortlessly from one gear ratio to the next, making pedaling a breeze!

The N380™, N380SE™, and N380x™ feature a ratio range of 380%. The N380x is warranted to support higher-powered mid-motor eBikes (up to 100 Nm and 500 W) as well as cargo bikes (up to 500 W and 280 kg). The N330™ and N330f™ have a ratio range of 330%. For exact specifications please visit: www.nuvincicycling.com.

STEPLESS SHIFTING – AS SIMPLE AS ADJUSTING THE VOLUME ON A RADIO.

The revolutionary NuVinci *Optimized* transmission provides a perfectly relaxed ride and a smooth, stepless progression from one ratio to another, literally with a twist of the wrist. NuVinci technology means: concentrating less on operating the bike and more on what's important! For example, the traffic or just the beauty of the surroundings.

The NuVinci continuously variable planetary (CVP) technology forms the foundation for the revolutionary *Nfinity* bicycle transmission, which can be adapted easily to meet individual cycling needs. Whether a rider is waiting at a stoplight or straining against a headwind, with NuVinci *Optimized* components, the ideal gear ratio will always be set. No more step changes, empty pedaling, or creaking. Simply enjoying a smooth ride.

AUTOMATIC SHIFTING – WHY BOTHER SWITCHING GEARS MANUALLY?

With the *Harmony* group sets, riding an eBike will become even more comfortable. The rider selects the pedaling rhythm, and the technology does the rest. As a result, a steady paces is maintained, regardless of inclines or wind.

What's more, the *Harmony* system automatically starts in a low gear ratio, making it easy to start pedaling after coming to a stop. Finally, there's the fully integrated Harmony H|Sync™ group set, which can be integrated into the existing eBike control unit without requiring an additional shifter on the handlebars.

STEPLESS MANUAL: NFINITY

***Nfinity*330™** ***Nfinity*330F™** ***Nfinity*380™** ***Nfinity*380SE™** ***Nfinity*380X™**

With the unique *Nfinity* group sets, riders can change the gear ratio between the pedals and rear wheel in one continuous motion. Just by twisting the controller (C3™, C3f™, C8™, C8s™) slightly on the handlebar and the gear ratio is changed to any ratio within its range. This is easy to do, no matter if cyclists are freewheeling, pedaling under load, or waiting at a stoplight. The *Nfinity* group sets include *NuVinci Optimized*

hubs with either the C3, C3f, C8, or the C8s. The C3 provides the same functionality as the C8 but without a display. Moreover, the group sets are practically maintenance-free, since they are made up of self-contained systems. They are also specially designed to withstand the high torque of an eBike and can be combined with a belt drive.



Stepless shifting



Effortless shifting,
even under load



Greater gear ratio range
than many conventional
shifting systems

STEPLESS AUTOMATIC: HARMONY

***Harmony*330™** ***Harmony*380™**

The *Harmony* group sets add an additional element of comfort to the *NuVinci* CVP technology for the continuously variable transmission. This is because the *Harmony* system offers a unique automatic continuously variable shifting system to those who'd rather not worry about shifting at all. Riders set their preferred cadence, and the *NuVinci Optimized* transmission is controlled automatically so that they can always pedal at the

same pace, even up or down hill. There are also two options: Using the small, easy-to-operate H3™ controller of the *Harmony* 330™ groupset, and choosing between three preset cadences (slow, medium, and fast). The H8™ controller of the *Harmony* 380™ groupset allows bikers to set the cadence. If they want to take over, they can turn off the automatic shifting with the press of a button.



Stepless shifting



Effortless shifting,
even under load



Greater gear ratio range
than many conventional
shifting systems



Comfortable pedaling
at your desired preset
cadence

STEPLESS AUTOMATIC & INTEGRATED: HARMONY H|SYNC

***Harmony*H|SYNC™**

With the *Harmony H|Sync* group set, the control of the revolutionary *NuVinci* transmission technology is fully integrated into the drivetrain control unit of the eBike. Not only will riders experience the fantastic feeling of cycling with smooth, stepless, and automatic shifting, they will also get to enjoy the most

uncomplicated eBike handling on the market! No need for a separate shifter with the *Harmony H|Sync* system. Riders can simply use the on-board computer or control unit of their eBike motor for the few settings they still need to carry out that aren't taken over by the automatic continuously variable system.



Stepless shifting



Effortless shifting,
even under load



Greater gear ratio range
than many conventional
shifting systems



Comfortable pedaling
at your desired preset
cadence



Full integration with
eBike drive and no
additional shifter

STEPLESS MANUAL: NFINITY



STEPLESS AUTOMATIC: HARMONY



STEPLESS AUTOMATIC & INTEGRATED: HARMONY H | SYNC



WHY NuVinci® CYCLING FOR DEALERS?

Position your shop at the forefront of the industry:

Present yourself as a forward-thinking, technology-driven, and contemporary dealer – as befits the lifestyle of your customers. By adding *NuVinci Optimized* bicycles to your range, you will be perceived as a retailer who is part of the next generation of technology-oriented cycling.

Generate a greater margin: When you sell *NuVinci Optimized* bikes, you will achieve additional profit compared to selling a non-*NuVinci Optimized* bike, as you will be selling your customers greater value.

More customers in your shop: Benefit from *NuVinci Cycling's* direct marketing activities for end customers, such as PR, social media, SEO, and much more, which will bring new customers directly to your shop.

Make your range stand out from your competition:

Make your range of bicycles stand out by offering *NuVinci Optimized* bicycle and eBike options.

Learn about the needs of your customers and profit from their willingness to buy: End consumers are prepared to pay more for the benefit of continuous automatic technology. These functions are more important to them than others.

Fewer product glitches: Gone are the days of stressful rides and occasions when customers visit the workshop because of creaking, slipping, or blocked gears.

New customers: Many potential new customers hesitate to buy a bicycle. They are too concerned about traffic and gearshifts. Demonstrate that cycling is easy with *NuVinci Optimized* products and that they can enjoy cycling. That will get a lot of people back on bikes.

MY2018 RETAILER TRAINING SERIES

The workshop training covers *NuVinci Optimized* products, technical problem solving, plus marketing, sales, and service support materials.

For more information and registration, please visit www.nuvincicycling.com/dealertraining



POINT OF SALE MATERIAL

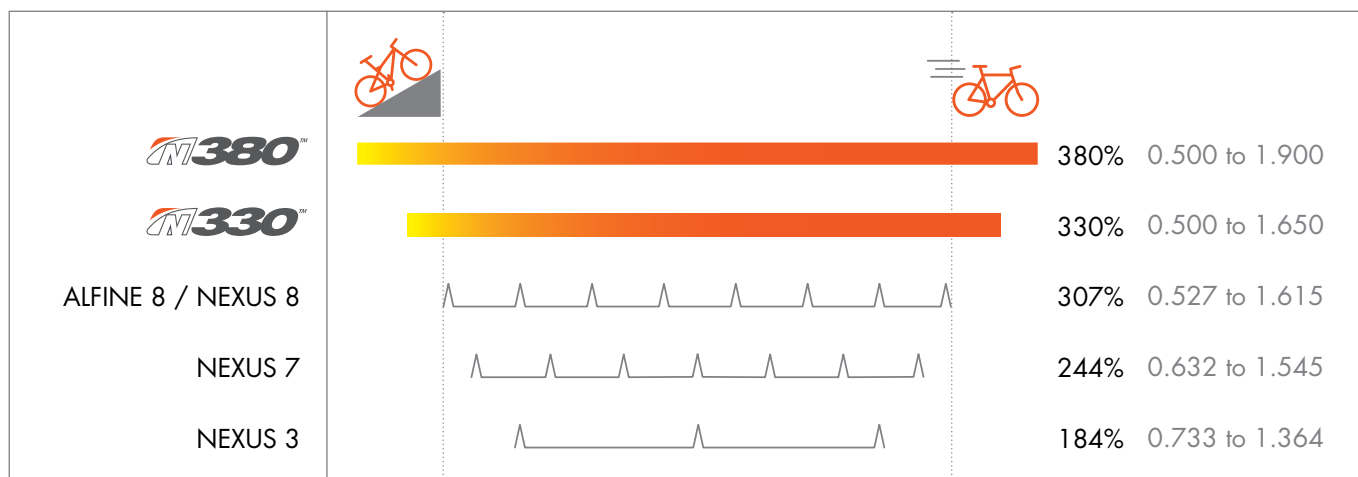
Order our Point of Sale material now to communicate the benefits of our products in your store.
Please contact your account manager or send an email to eu-service@nuvincicycling.com



RATIO RANGE

The NuVinci Optimized hubs were designed to offer a higher ratio range, compared to other similar products.

RATIO RANGE | MAXIMUM INPUT TORQUE



For retailer specific information, please register to our login area:
nuvincicycling.com/dealerlogin.

You can call us at: **+31 85 0498 698**
or send us an email at **eu-service@nuvincicycling.com**.

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