



## FOR IMMEDIATE RELEASE

### **Cyclist Geoff Harper Takes NuVinci® and Gates Combination Bike on “Unchained Iceland” Adventure While Gates and Fallbrook Technologies Partner on New Options**

AMSTERDAM (NL) / CEDAR PARK (TX, USA) – October 10, 2013 – Fallbrook Technologies Inc. (Fallbrook) today announced a close technical cooperation with Gates Corporation to develop a range of new products for e-Bikes. Gates, maker of the Gates Carbon Drive™ belt system for bicycles, will introduce three new rear sprockets specifically made for use with Fallbrook’s NuVinci N360™ Hub. These sprockets can be joined with new Gates front sprockets for the Bosch GEN2 e-Bike system, allowing manufacturers to create next-generation electric bikes that combine the clean and low-maintenance attributes of both the Gates belt drive system and Fallbrook’s NuVinci transmissions.

#### **Focus on advanced e-Bike technology**

More manufacturers are looking at NuVinci technology as a main source for reliable and robust e-Bike drive train solutions. The latest issue of the leading German e-Bike magazine, *ElektroRad*, shows that more than half of the highlighted bikes for 2014 are equipped with a NuVinci N360™ hub or a NuVinci Harmony™ drivetrain. Why? The smooth, low-maintenance and highly durable technology works with several e-Bike motor systems and enables a comfortable riding experience. Many manufacturers have recognized these advantages. "Gates Carbon Drive is a great complement to Fallbrook’s current product line," stated Chris Vasiliotis, NuVinci product manager. "We do extensive research and seek cooperation with high-technology partners such as Gates who develop innovative products," Vasiliotis continued. "Gates also shares a similar objective with us: Improving existing technologies to make cycling more convenient and to consequently encourage people to ride bikes more. This is very important to us and, we believe, to the whole industry."

#### **New developments with Gates – “Sure Fit” design**

Gates Carbon Drive™ is a low-maintenance, chain-replacing technology from Gates, a global leader in automotive and industrial belts. Clean, quiet, light, and strong, Carbon Drive requires no greasy lubrication, weighs less than a chain drive, and will not stretch. At Eurobike 2013 Gates Carbon Drive introduced new sprockets for use with the widely popular Bosch e-motor system. "Gates likes to partner with the leading technology brands in the bike industry, and the NuVinci transmission is a game-changer," says Todd Sellden, director of Gates Carbon Drive Systems. "Gates belt drives and the NuVinci N360 simply make sense on e-Bikes, where consumers want bikes that are enjoyable to ride and easy to maintain without the fuss of derailleurs and chains."

Fallbrook’s cooperation with Gates dates back to 2007, when a custom sprocket was designed to mate with the original NuVinci N170 drivetrain. The original combination of NuVinci, Gates, and

Bosch goes back to 2011, when the first concept bike with an electric Bosch motor, Gates Carbon Drive, and the *NuVinci N360* drivetrain was presented and later put into production by cutting-edge German bike manufacturer GRACE. The partnerships with Gates and Bosch continue to be renewed and strengthened.

The latest enhancements include three new Gates CDX sprockets specific to *NuVinci N360*. Gates and *NuVinci* worked together to develop a range of new, improved sprockets that include Gates’ new “SureFit” design technology. Now offered in 24T, 26T, and 28T sizes, the SureFit design provides a superior connection, increases durability and provides a smoother drive system. The *NuVinci* Gates CDX sprockets can be combined with several Gates front sprockets and belts designed for the new Bosch GEN2 e-Bike drivetrain. “This wide range of gearing and belt combinations delivers unparalleled flexibility for bicycle manufacturers of all types of e-Bike categories, from refined urban e-Bikes to performance road and mountain e-Bikes,” said Chris Vasiliotis. “Together, we will continue to drive future growth in the e-Bike and bicycle industry.”

### **“Unchained Iceland”**

#### ***NuVinci* / Gates drivetrain equipped Fat bike conquers the land of fire and ice**

Earlier this year, Geoff Harper, a UK native and Denver resident adventurer, rode the southern beaches of Iceland on a 9:Zero:7 Fat bike equipped with the new *NuVinci* / Gates CDX system. The 725-kilometer “Unchained Iceland” endurance ride through grueling terrain and adverse weather showed that these components work perfectly together and can withstand even the toughest of conditions.

Harper chose a Gates Carbon Drive and *NuVinci N360* because his off-road excursion of Iceland on the country’s beaches would have been too harsh on a chain and derailleur. “Iceland’s South Coast has many ocean inlets and glacial runoffs, as well as the ever-present threat of high winds and persistent rain,” said Harper. “With my specially equipped Fat bike that offers versatility and dependability, the trip was a lot of fun. The sand and salt did not affect my Gates- *NuVinci* drivetrain. The beauty of the *NuVinci* is the sealed CVP design that provides an infinite ‘gear’ choice and seamless shifting with no loss of torque. The updated Gates Carbon Drive CDX system sheds sand, mud, and debris while ensuring the belt stays firmly in place. I am sure that a traditional derailleur/chain-drive wouldn’t have survived this trip,” Harper continued.

For more on the Unchained Iceland adventure, visit: <http://unchainediceland.wordpress.com>.

In 2012, Maximilian Semsch took a 16.000 km trip around Australia -- yet another practical test under difficult conditions, proving the reliability and robustness of the *NuVinci* drivetrain. However, the Unchained Iceland adventure combined *NuVinci* with the Gates belt drive system. In North America, this combination of Gates belt and *NuVinci* transmission is featured on the widely popular Gotham city bike from the Novara bicycle brand sold through REI.

### **About Fallbrook Technologies Inc.**

Fallbrook’s NuVinci® continuously variable planetary (CVP) technology improves the performance and efficiency of machines that use a transmission, including bicycles, electric vehicles, automobiles, agricultural equipment, wind turbines, and others. The *NuVinci* technology offers companies the flexibility to design and produce next-generation products that are better tailored to their unique

business, market, and competitive requirements. The N360™ continuously variable bicycle transmission and the Harmony™ automatic shifting system utilizing the N360 are Fallbrook’s current commercially available products. *NuVinci* technology is also being adopted in other vehicle classes, as two major manufacturers have licensed *NuVinci* technology for the development of automotive class drivetrains and another manufacturer has licensed the technology for electric and gasoline light vehicle applications.

Fallbrook has built an extensive portfolio of over 500 patents and patent applications worldwide.

For more information, visit [www.fallbrooktech.com](http://www.fallbrooktech.com).

### **About Gates Carbon Drive™**

Consisting of two lightweight metal sprockets and a high-strength belt embedded with carbon fiber cords, Gates Carbon Drive™ is a low-maintenance, chain-replacing technology from Gates Corp., the global leader in automotive and industrial belts. Clean, quiet, light, and strong, Carbon Drive requires no greasy lube, weighs less than a chain drive, and will not stretch. Due to its low maintenance and ease of use, Carbon Drive is a technology that can get more people on bikes. Gates Carbon Drive is the world’s leading seller of belt drives for bicycles and electric bikes.

For more information, visit: [www.gatescarbondrive.com](http://www.gatescarbondrive.com)

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