



PRESS RELEASE

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Napino and Fallbrook Announce NuVinci® CVP Technology for Innovative Motorized 2-Wheel Vehicle Transmissions

Introduction at the Auto Expo in New Delhi, India (February 8-14, 2018) will highlight how these transmissions can increase fuel economy, reduce emissions, and improve driveability for mopeds, scooters, and motorcycles.

CEDAR PARK, TEXAS / GURGAON, INDIA – February 6, 2018 – Napino Auto & Electronics Limited (Napino) will introduce the *NuVinci* continuously variable planetary (CVP) technology for 2-wheeler vehicle transmissions to OEMs at the Auto Expo, on February 8 - 14, 2018 in New Delhi, India. The *NuVinci* CVP is a revolutionary technology invented by Fallbrook Technologies Inc. (Fallbrook) and licensed to Napino to develop, manufacture, and sell NuVinci Optimized™ transmissions for use in two-wheel vehicles such as mopeds, scooters, and motorcycles powered by electric motors or internal combustion engines.

“Considering the government’s strong push for electrification of vehicles in India, *NuVinci* technology will enable us to provide the first value-added drivetrain solution that will improve vehicle efficiency, durability and performance for scooters, mopeds, and motorcycles,” said Vaibhav Raheja, Director of Napino.

“We look forward to speaking with OEMs who are looking to gain a competitive advantage by incorporating Napino’s *NuVinci Optimized* 2-wheeler transmission into their upcoming model designs,” adds Naveen Kumar, Senior Vice President of Napino.

“Napino has the vision, resources, and relationships to facilitate rapid development of our technology in the two-wheeler market,” says Sharon O’Leary, President and COO at Fallbrook. “With Napino’s dedication to supplying high-quality parts to its OEM customers, as well as deploying advanced automotive technology that will enable its customers to gain a competitive edge, we are expecting commercialized *NuVinci Optimized* transmissions in a variety of OEM scooter applications over the next several years.”

Compared to the conventional belt CVT found in scooters today, the *NuVinci* CVP offers a wide range of advantages including: greater transmission efficiency (a *NuVinci* licensee has measured peak overall transmission efficiency of 94%), greater powertrain system efficiency, greater packaging efficiency, and greater torque capacity. *NuVinci* is a scalable and affordable technology that uses standard manufacturing processes and traditional materials, OEMs integrating it into their products can expect the cost to be in-line with the market.

OEMs who are interested in getting a *NuVinci Optimized* transmission on their scooters, please contact Naveen Kumar, Senior Vice President, at NAVEEN.KUMAR@napino.com for more information.

About NuVinci® CVP Technology

The *NuVinci* technology is Transforming Gears into Spheres™ by using a set of rotating spheres between the input and output components of a transmission. Tilting the spheres changes their contact diameters and varies the speed ratio. The efficiency of the *NuVinci* CVP is a function of three things; the speed ratio, the input torque, and the input speed. This is very much like a conventional step ratio transmission. The highest efficiency is found near 1:1 and tapers as you move to the ratio extremes. The *NuVinci* CVP works synergistically with electric motors, extending the operating speeds of the motor and at the same time, it can increase the maximum torque at low motor speeds. As an example of this synergy, Continental AG has licensed the *NuVinci* CVP for use in an integrated motor and CVP for the eBike market.

About Napino Auto & Electronics Ltd.

Based in India, Napino is a leading global supplier of automotive electronic products. With headquarters in Gurgaon, Haryana, India, the company employs roughly 2,500 employees. Its portfolio includes ECUs (electronic control units), capacitor discharge ignition systems, regulator rectifiers, wiring harnesses, handlebar switches and E-Mobility products among other electronic offerings.

As a leader in its segment with complete design, development and manufacturing capabilities, Napino offers innovative solutions to major automobile manufacturers. Through its robust R&D capabilities and sustainable partnerships with global players, Napino's objective is to lead technology innovation in automotive electronics. For more information, please visit www.napino.com.

About Fallbrook Technologies

Fallbrook Technologies is the inventor of the revolutionary NuVinci® continuously variable planetary (CVP) technology, which enables performance and efficiency improvements for machines that use an engine, pump, motor, or geared transmission system - including urban mobility vehicles, cars and trucks, industrial equipment, and many other applications. Fallbrook has a unique collective development model and community through which *NuVinci* technology licensees share enhancements, which adds to the value of the technology and accelerates product development. This approach enables forward-looking companies, who wish to create visionary new products with *NuVinci* technology, to move quickly from concept to market

commercialization. Fallbrook is based in Cedar Park near Austin, Texas, USA and holds rights to over 800 patents and patent applications worldwide. For more information, visit www.fallbrooktech.com.

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