



## Article Side

If you have the passion for bike hold your breath the future of the bike is astonishing  
by [Coloprilreview](#)

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Falco e-Motors, a division of Strategic Technology Group LLC is doing wonders for fulfilling its dream of building the best eBike components and systems of the world. The systems and the components are given the balanced look that suits the design with style combined with unmatched performance. With the effort of extensive research and development, the team of Falco has come up with unique products having distinctive design and remarkable technical features.

The philosophical features of the company comprises of Precision, Innovation and Quality. Falco e-motors symbolize leadership in Innovation and Technology. The extraordinary technical performance of the components and its individuality has become the characteristic feature of Falco. All the components and systems are tried and tested by the quality management team to assure best performance and guarantee maximum customer satisfaction. Falco is called to be the Future of Electric Bike Propulsion. To compare a basic difference, team of Falco has come up with an observation that is essential to be noticed. While an electric bike ride emits 15.8g CO<sub>2</sub> per mile, a mid-sized passenger car emits upto 368g CO<sub>2</sub> per mile. It has been observed that there are five major problems with the existing technology for electric bikes – which includes poor portability, limited range, pedaling difficulty, low top speed and low hill climbing ability. The technology which Falco has brought in to light can easily diminish this scarcity at a significant rate. Falco e-motors™ electric bike propulsion technology provides 25 percent better portability (i.e., lower weight), 10 percent more range (i.e., more efficiency), 40 percent reduction in pedaling difficulty (i.e., cogging torque), 30 percent more top speed (i.e., more power) and higher hill climbing ability (i.e., more torque). This is comparatively a huge difference with the existing eBike technology. The technology of Falco e-motors has incorporated breakthroughs in motor design, motor inverter architecture, motor control and battery management methods along with wireless communication.

After all it's a completely a new concept of building bike with electric motor. Some of the featured components of Falco e-motors are HXM, the amazing light weight high power motor, HXD, the amazing wireless electric bike motor, HXB rr, the lightweight lion electric bike batteries with high discharge current, Hx-ht, power hx propulsion system and Dxm, 200-400 watts eBike hub motor. Several other electric bike kits are available in the site. The website of Falco e-motors is also helpful in accumulating knowledge on electric bicycle and electric power bike. Falco uses a novel hybrid winding configuration with reduced copper weight that ensures high power density, torque density and system efficiency resulting in more range. The motor controller is designed in such a manner that it remains integrated into the interior of the motor which helps to improve efficiency, reduce cost and save space. System control methods are used for cost effective torque and the speed is controlled with minimum battery consumption and smooth acceleration from stand-still. Falco's direct drive electric propulsion (DDEP) technology has been developed with unique five-phase permanent magnet motor architecture and winding design to establish superior reduction in motor and inverter weight. The in-depth study on electric bike motor has shown a new age of electric motor bike.

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Falco e-motors, the integrator of direct drive electric propulsion (DDEP) technology in a [eBike](#) has

successfully developed the components of a [electric bike](#) motor. This has renovated the age of a [electric bicycle](#) or electric bike

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