



Rakesh Dhawan President

To let dreams come true also means hard work. We have always dreamt of building the best eBike components in the world, and of creating a unique eBike experience. Achieving that with the Falco name means innovation and technological leadership. My team and I share the passion of striving for technical excellence.

Falco designs develops and manufactures eBike Systems for trikes, tandems, and bicycles. The Falco brand name has quickly become synonymous with speed, extraordinary experience, utterly seamless mobility, technology leadership, highest product quality and reliable customer service in the market for premium eBike Systems. It is our goal to improve the natural and urban environment by designing interfaces between human and machine, utilizing smart systems and green technology. We believe that our products are a crucial enabler to promote healthy living, reduce carbon emissions and - besides - change the mode of transportation, in particular in urban areas. While eBike systems not only reduce emissions, they also provide solutions to road congestion in urban centers, a growing challenge around the world. We remain committed to working aggressively on solutions for alternative mobility.



FALCO ADVANTAGE

Intuitive Engagement

> Real-World Electric Assist

Infinitely Adaptable Enjoyment

Simplicity of Operation

| <u> </u> | | | |
|---|------------|--|---|
| 12 Most Important Characterístics of Falco eBike Syst | (3) | Extraordinary Torque and Sensor Technology | The most important aspect of a Falco Drive System is the intuitive engagement. This is achieved by an extra-ordinary built-in torque and speed sensor technology. The combination makes Falco the industry's most advanced eBike technology in the hub. |
| | * | Powerful | Motors with a 750W+ rating and torque up to 45Nm. Direct drive power is delivered directly to the wheel without any loss in chains, or gears. Enough power and torque for on and off-road riding. |
| | | Extraordinary Controller | The built-in controller gives you extraordinary performance and saves precious space. |
| | 50 | Five Phase Drive Technology | The patented 5-phase technology provides 40% more power and torque with amazing efficiency at top speeds. |
| istics | 7 | 28 mph Super-Efficient Commuting | With a built-in torque sensor, a controller and five phase technology, you can really move from 0 to 28mph effortlessly. |
| acteri | | Absolute Control | There is control and then there is an absolute control - with your feet and controls on your handle bars. Falco systems offer infinitely adaptable enjoyment. |
| Chara | r) | Zero-Resistance Free-Wheeling | Falco's direct drive has true zero resistance pedaling. The motor can be pedaled like a regular bike wheel even when the battery is off. When you run out of juice, you don't need to sweat it. |
| Iost Important C | | Wireless e-Bike Console & Smart Phone Compatibility | Falco Direct Drive is the first wireless eBike console in the Industry. It is modular and adds additional control and benefits right on your handlebans without additional wiring, Falco is also the first company in the world to have Smart Phone apps with ANT+ and BLE compatibility. |
| | | Ultra-Reliable | The primary goals of a Falco Direct Drive system are to have an ultra-reliable system. We achieved this by using a highly modular design approach. For example, the motor can operate independently without any commands from other components of the drive system. |
| | | An Open System | An open system like a Fako drive system protects your investment for a long time. With other systems, you are locked into their batteries at the end of life of the batteries. Not with Falo. The Fako direct drive system can be operated with other batteries. The motor can keep on humming for a long time. |
| 12 N | S Years | Five Year Warranty | Falco's Mission is an extraordinarily reliable, and long lasting product. That is why we stand behind our product with 5-year warranty on the motor system. Falco is the first in the industry of feet Section 2015. |

in the industry to offer a 5-year warranty.

Ultra-Efficient

Operation

Falco's drive system delivers a seamless experience

from 0 to 28mph. Ultra-fast with an ultra-efficient

power delivery define our systems

$H \times m_{H \times 7.1}^{750W+}$



The Hxm 750+ platform is designed for superior performance and efficiency. The platform is 11-speed cassette and disc brake compatible. This direct drive motor is based on our patented five phase architecture with zero resistance freewheeling and 40% more power and torque than conventional three phase motors. The top speed efficiency remains significantly high as compared to any other industry platform of comparable weight and performance.



Light Weight - 5.9kg (13 lbs.) //
High Efficiency - 90% //
High Torque - 45Nm //
High Power - 750W+ //
Zero Free Wheeling Resistance - 0.01Nm //
Rear Wheel Installation //
Disc Brake and Cassette Compatible //
24 or 36 or 48V Operation //
Wireless Communication Capability //
Analog Throttle and Brake //
Precise Power and Torque //
elbike Labs Diagnostic Interface //
High Speed Micro-Controller //
Smart Phone Compatibility//



145mm, 160mm, 190mm and Custom Drop Outs Available 32, 36, 40, 48 or custom spoke hole arrangement Vertical or Horizontal Drop Outs Available



Disc Brake Compatible

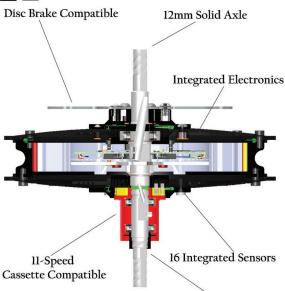
Integrated Torque and Speed Sensors

Integrated Electronics



11-Speed Cassette Compatible 22-25 Five Phase Motor Architecture





Integrated Torque and Speed Sensors

Li 1 - 400Wh, 11.6Ah



Hardened Case

Li 1 is a state of the art rear rack lithium battery pack. It weighs just 5lbs (2.3kg) and it delivers 417W h of energy (36V, 116Ah). The packs use Lithium Ion Rechargeable battery cells from Panasonic. Operating temperature of the pack is 0 - 45°C (Standard Charge) or 10 - 45°C (Quick Charge). Packs can be used from -20 - 60°C (Standard Discharge) or stored from -20 - 50°C (I week), or -20 - 45°C (I month), 20 - 40°C (formath), and -20 - 35°C (I year).

DIMENSIONS





Li 3 - 36V, 400Wh, 11.6Ah



Li 3 is a state of the art downtube lithium battery pack. It weighs just 5lbs (2.3kg) and it delivers 4I7Wh of energy (36V, 116Ah). The packs use Lithium Ion Rechargeable battery cells from Panasonic. Operating temperature of the pack is 0 - 45°C (Standard Charge) or 10 - 45°C (Quick Charge). Packs can be used from -20 - 60°C (Standard Discharge) or stored from -20 - 50°C (I week), or -20 - 45°C (I worth), or -20 - 45°C C (I wear).

DIMENSIONS



40 Li-Ion Cells// Light Weight ~ 5 lbs. // High Efficiency ~ 90% // High Energy ~ 417Wh //

High Capacity ~ 11.6Ah // Internal Impedance < 250mOhms//

Cel Balancing//

Cel Balancing// Over-discharge protection//

Peak Discharge Current ~ 30A// Cycle Life > 500 Cycles//

Wide Temperature Operation ~ -20 to 60°C (-4 to 140°F)//

High Reliability //

Intelligent Regen Interface //

Precise Power and Current Measurement //

High Speed Micro-Controller //









Li 7 - 48V, 672Wh, 14Ah



Li 7 is a state of the art downtube lithium battery pack. It weighs just 7.7lbs (3.5kg) and it delivers 672 Wh of energy (48V, 14Ah). The packs use Lithium Ion Rechargeable battery cells from Panasonic, Operating temperature of the pack is 0 - 45°C (Standard Charge) or 10 - 45°C (Quick Charge). Packs can be used from -20 - 60°C (Standard Discharge) or stored from -20 - 50°C (I week). -20 - 45°C (I month), 20 - 40°C (G months), and -20 - 35°C (I year).

DIMENSIONS



52 Li-Ion Cells//
Light Weight - 7.7 lbs. //
High Energy - 672Wh //
High Capacity - 14Ah //
Ver-discharge protection//
Peak Discharge Current - 40A//
Cycle Life - 500 Cycles//
Wide Temperature Operation - -20 to 60
High Reliability //

High Speed Micro-Controller //
Hardened Case

Cycle Life > 500 Cycles// Wide Temperature Operation - -20 to 60°C (-4 to 140°F)// High Reliability // Intelligent Regen Interface // Precise Power and Current Measurement //



State of Charge Indicator \

Charging Port

On/Off Switch



Key Lock

Li 9 - 48V, 672Wh, 14Ah



Li 9 is a state of the art downtube lithium battery pack. It weighs just 7.7lbs (3.5kg) and it delivers 672 Wh of energy (48V, 14Ah). The packs use Lithium Ion Rechargeable battery cells from Panasonic. Operating temperature of the pack is 0 - 45°C (Standard Charge) or 10 - 45°C (Quick Charge). Packs can be used from -20 - 60°C (Standard Discharge) or stored from -20 - 50°C (1 week), or -20 - 45°C (1 month), or -20 - 40°C (6 months), or -20 - 35°C (1 year).



52 Li-Ion Cells// Light Weight ~ 7.7 lbs. // High Energy ~ 672Wh // High Capacity ~ 14Ah // Internal Impedance < 250mOhms// Cel Balancing// Over-discharge protection// Peak Discharge Current ~ 40A//

Peak Discharge Current ~ 40A// Cycle Life > 500 Cycles// Wide Temperature Operation ~ -20 to 60°C (-4 to 140°F)// High Reliability // Intelligent Recen Interface //



Hardened Case

Precise Power and Current Measurement // High Speed Micro-Controller //



Li 11 - 500Wh, 10.5Ah



Hardened Case

Li II is a state of the art rear rack lithium battery pack. It weighs just 8lbs (3.5kg) and it delivers 500W of energy (48V, 10.4Ah). The packs use Lithium Ion Rechargeable battery cells from Panasonic. Operating temperature of the pack is 0 - 45°C (Standard Charge) or 10 - 45°C (Quick Charge). Packs can be used from -20 - 60°C (Standard Discharge) or stored from -20 - 50°C (I week), or -20 - 45°C (I month), 20 - 40°C (6 months), and -20 - 35°C (I year).

DIMENSIONS





e5.1



Speed: 20mph. 28mph. Off Road Range: 60+ Miles Weight: 18 libs Battery Type: Lithium Ion 36V, 417Wh, Rear Rack Motor: 500+ Drivetrain: up to 11-Speed Cassette Brake: Disc or Rim Compatible Brake: Disc or Rim Compatible

Model 2018/2019





Speed: 20mph. 28mph, Off Road Range: 80+ Miles Weight: 21b Downtube Battery Type: Lithium Ion 48V, 672Wh, Downtube Motor: 500+ Drivetrain: up to 11-Speed Cassette Brake: Disc or Rim Compatible Built-In Speed and Torque Sensor Model 2018. 2018



Speed: 20mph. 28mph, Off Road Range: 60+ Miles Weight: 18 lbs Battery Type: Lithium Ion 36V, 4/TVM, Rear Rack Motor. 500: Drivetrain: up to 11-Speed Cassette Brake: Disc or Rim Compatible Built-in Speed and Torque Sensor



Speed: 20mph. 28mph, Off Road Range: 80 · Miles Weight: 21 lbs Battery Type: Lithium Ion 48V, 672Wh, Downtube Motor: 500-Drivetrain: up to 11-Speed Cassette Brake: Disc or Rim Compatible Built-In Speed and Torque Sensor Model 2018/2018 e5.11 s2195

Speed: 20mph. 28mph, Off Road Range: 70+ Miles Weight: 21 lbs Battery Type: Lithium Ion 48V, 500Wh, Rear Rack

Motor: 500+ Drivetrain: up to 11-Speed Cassette Brake: Disc or Rim Compatible Built-In Speed and Torque Sensor

Model 2018 2019/

e5.3 \$1695 SIMPLICITY



Speed: 20mph. 28mph, Off Road Range: 40 Miles Weight: I8 lb Battery Type: Lithium Ion 36V, 417Wh, Rear Rack Motor: 500+ Drivetrain: up to 11-Speed Cassette Brake: Disc or Rim Compatible Built-In Speed and Torque Sensor Model 2018/2019 e5.1 s1695 SIMPLICITY

Speed: 20mph. 28mph, Off Road Range: 40+ Miles Weight: 18 lbs Battery Type: Lithium Ion 36V, 417Wh, Rear Rack Motor: 500+ Drivetrain: up to 11-Speed Cassette Brake: Disco or Rim Compatible Built-In Speed and Torque Sensor Model 2018/2019





Range: 80+ Miles
Weight: 21 lbs
Battery Type: Lithium Ion
48V, 672Wh, Downtube
Motor: 500Drivetrain: up to 11-Speed Cassette
Brake: Disc or Rim Compatible
Built-In Sneed and Torque Sensor

Model 2018/2019

Speed: 20mph. 28mph, Off Road

e5.9 s1995 SIMPLICITY

> Speed: 20mph. 28mph, Off Road Range: 70+ Miles Weight: 21 lbs Battery Type: Lithium Ion 48V, 672Wh, Downtube

Motor: 500+ Drivetrain: up to 11-Speed Cassette Brake: Disc or Rim Compatible Built-In Speed and Torque Sensor

Model 2018 2019

f7.7



Speed: 20mph, 28mph, Off Road Range: 80+ Miles Weight: 21lbs Battery Type: Lithium Ion 48V, 672Wh, Downtube Motor: 750+ Drivetrain: up to 11-Speed Cassette Brake: Disc or Rim Compatible Built-In Speed and Torque Sensor Medel 2018: 2018



Speed: 20mph. 28mph, off Road Range: 70+ Miles Weight: 18 lbs Battery Type: Lithium Ion 48V, 500Wh, Rear Rack Motor: 500+ Drivetrain: up to 11-Speed Cassette Brake: Disc or Rim Compatible



Speed: 20mph. 28mph, Off Road Range: 80 · Miles Weight: 21 lbs Battery Type: Lithium Ion 48V, 672Wh, Downtube Motor: 750 Drivetrain: up to 11-Speed Cassette Brake: Disc or Rim Compatible Built-In Speed and Torque Sensor Model: 2018/2018 $f_{\$2295}^{7.11}$



Speed: 20mph. 28mph, Off Road Range: 70+ Miles Weight: 21 lbs Battery Type: Lithium Ion 48V, 500Wh, Rear Rack Motor: 750+ Drivetrain: up to 11-Speed Cassette Brake: Disc or Rim Compatible



Speed: 20mph, 28mph, Off Road Range: 80- Miles Weight: 21 lbs Battery Type: Lithium Ion 48V, 672Wh, Downtube Motor: 750-Drivetrain: up to 11-Speed Cassette Brake: Disc or Rim Compatible Built-In Speed and Torque Sensor Model 2018/250-



Speed: 20mph. 28mph, Off Road Range: 80+ Miles Weight: 21 lbs Battery Type: Lithium Ion 48V, 672Wh, Downtube Motor: 750+

Motor: 750+
Drivetrain: up to 11-Speed Cassette
Brake: Disc or Rim Compatible
Built-In Speed and Torque Sensor
Model 2018 2019



Range: 70- Miles
Weight: 21 lbs
Battery Type: Lithium Ion
48V, 500Wh, Rear Rack
Motor: 750Drivetrain: up to 11-Speed Cassette
Brake: Disc or Rim Compatible
Built-In Speed and Torque Sensor
Model: 2018/2019

Speed: 20mph. 28mph, Off Road







Falco Flash Apps (Available for Smart Phones)

Control
Evaluate
Modify
Diagnose



eBike Lab Technology (Available for Desktops) Meet the World's First Indoor/ Outdoor eDrive



Falco Virtual Reality Integration



Meet the World's First Indoor/ Outdoor eDrive



Our products enable healthy living, reduce carbon emissions and, change the mode of transportation, in particular in urban areas. Our eBike systems provide solutions to road congestion, a growing challenge around the world. We remain committed to working aggressively on solutions for alternative mobility and carbon-neutral lifestyle.

ELEVATE THE RIDE.