

FALCON



2025 FALCON XB3

LIGHT MEDICAL & CARGO TRANSPORT VEHICLE
Fleets ONLY





2025 FALCON xB3m

Showcasing a modern, electric driven cross utilization medical services On-Road / Off-Road Vehicle, The xB3 key technology is the continuous Electric/Gasoline drive system

With an effective unlimited range and versatility, the xB3 is a capable all terrain transportation vehicle.

As all-terrain transportation needs continue to evolve, electric range extended vehicles are playing an increasingly important role in creating more efficient, environmentally friendly, and accessing rural areas with limited to no infrastructure support

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xB3

Interior and Functionality

The interior functions in specialized vehicles continuously evolve with technology and design advancements. Falcon xB3 is equipped with modern and future-oriented features that enables the vehicle to continuously evolve during its lifetime



Prototype shown, Full Armor Variant, computer generated



FALCON motors corporation

Interior and Functionality Medical / Fire Rescue



Prototype shown, North America specification, computer generated

The interior functions in specialized vehicles continuously evolve with technology and design advancements. Falcon xB3 is equipped with modern and future-oriented features that enables the vehicle to continuously evolve during its lifetime

Flexible configuration based on mission requirements, whether transporting large number of refrigerated vaccines, blood banks or transporting patients the xB3 can be rapidly configured to carry any or combination of these functions

Minimalist Design: Falcon xB3 feature minimalist interior designs with clean lines and uncluttered spaces. The absence of a traditional internal combustion engine drive system allows for more creative interior layouts.

AI Integration: Artificial intelligence (AI) is integrated into Falcon Vehicles functions DMS™ provides personalized driving experiences. AI systems learns driver preferences, adjust settings, and offer proactive suggestions. ++





Versatile Interior: The interior of the xB3 was designed to be versatile, with configurable seating arrangements. The design emphasized creating a comfortable environment for operators and patients.

Large primary core screens:

xB3 equipped with large touchscreens that serve as the central hub for patient information, navigation, and vehicle controls.

Advanced Connectivity:

- Advanced connectivity features, including smartphone integration, OTA updates, and the ability to control certain vehicle functions remotely through dedicated apps and through open API
- StarLink connectivity enables the xB3 live information transfer including Video conferencing

Spacious Interiors:

The absence of a traditional engine drivetrain components in the vehicles resulted in a more spacious interior. This led to a highly configurable interior.

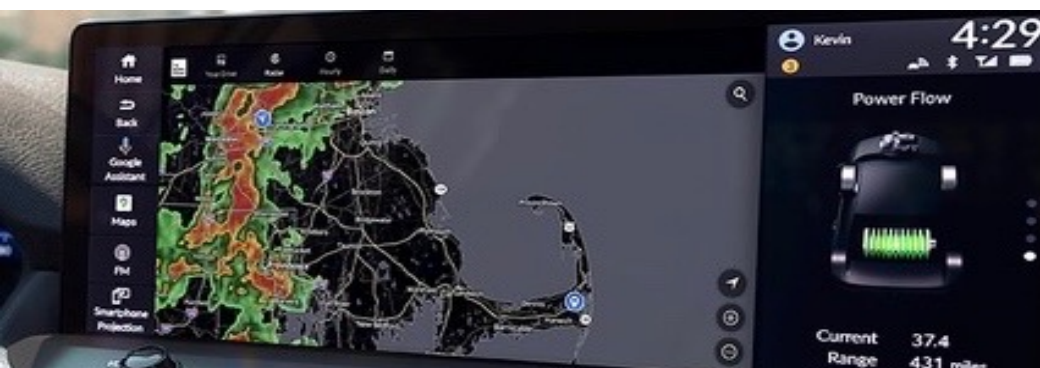
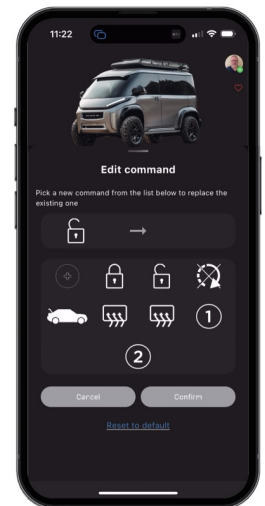
Biometric Sensors:

Biometric sensors, such as facial recognition or fingerprint scanning, can be used for vehicle access, personalization of settings, and enhanced security features.





- Open API telematics architectural allows customer specific integration such as B Medical RTMD
- Optional Live video conference between vehicle and Medical service providing facilities **xB3m**
- Advanced Connectivity: Falcon xB3 offer advanced connectivity features, including smartphone integration, over-the-air software updates and the ability to control certain vehicle functions remotely through dedicated apps.
- ++
- 360 remote access camera ***
- Optional StarLink satellite based internet connectivity
- Satellite Weather forecast, maps and warning



Technology and Manufacturing

Two asynchronous Borg Warner three-phase AC motors, one each at front and rear axle

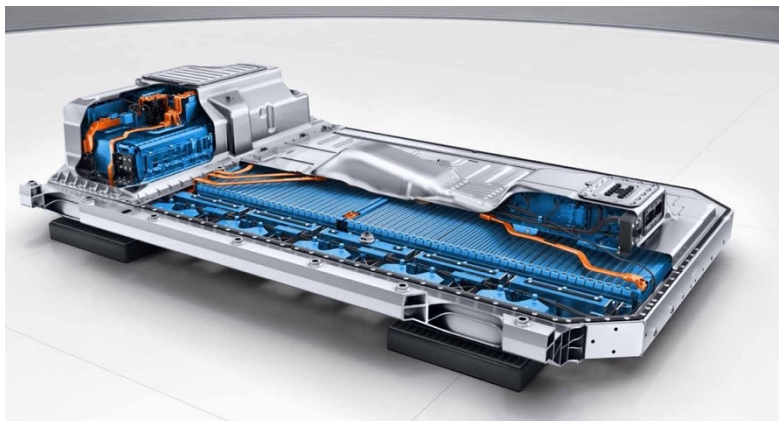


Core value for xB3 is the driving functionality of the vehicle, our design principal is that technology should not affect the core vehicle mobility

Advanced integrated steel and carbon-fiber unified vehicle platform



Prismatic high performance stable battery pack





Advance integrated steel, Aluminum and carbon-fiber unified vehicle platform

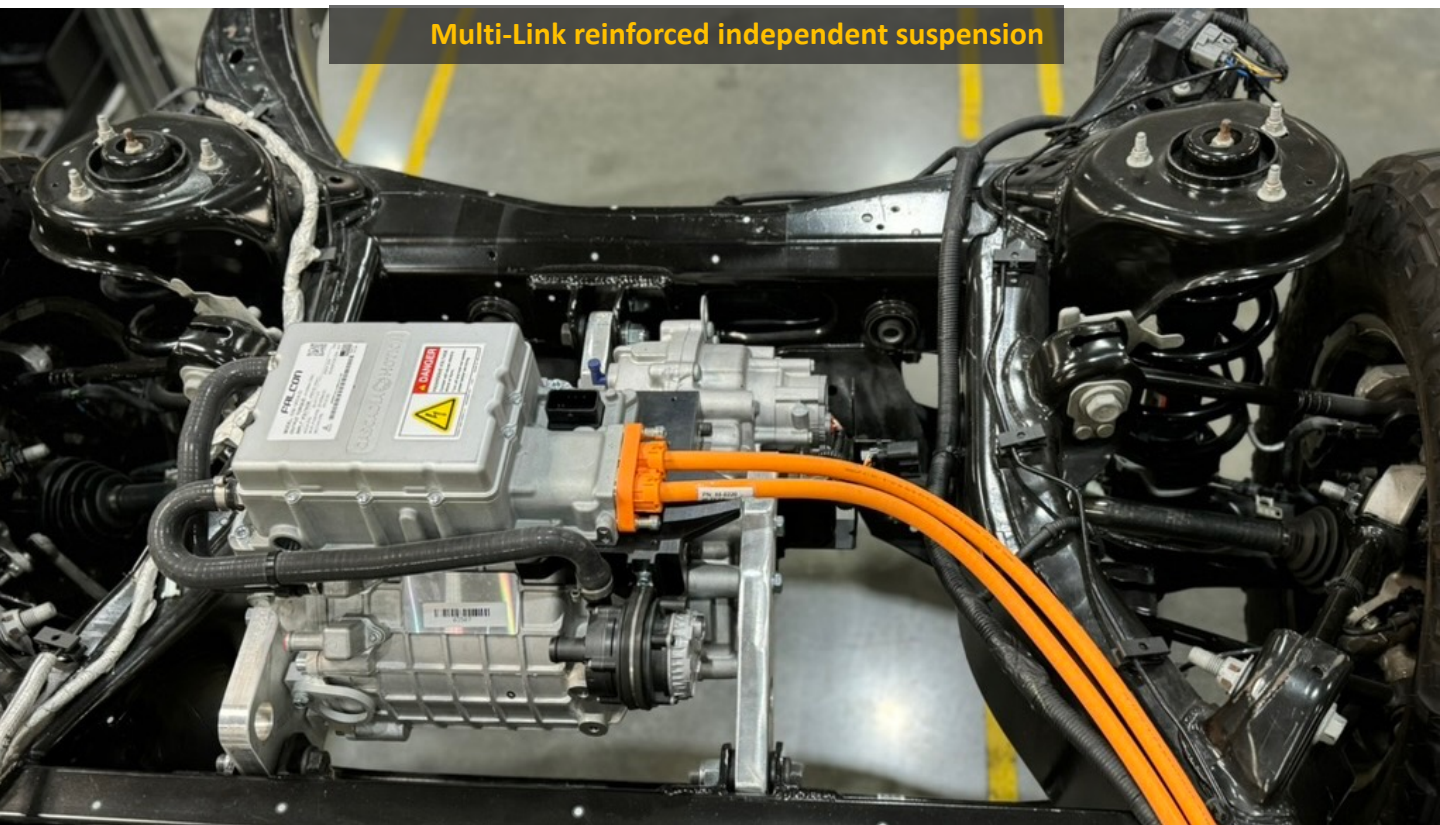


Prismatic high performance stable battery pack



Second Axle Suspension

Multi-Link reinforced independent suspension



Full Skid plate Armor protection



Electronically Disconnecting Sway-bar



Bilstein Off-Road Shocks and Struts



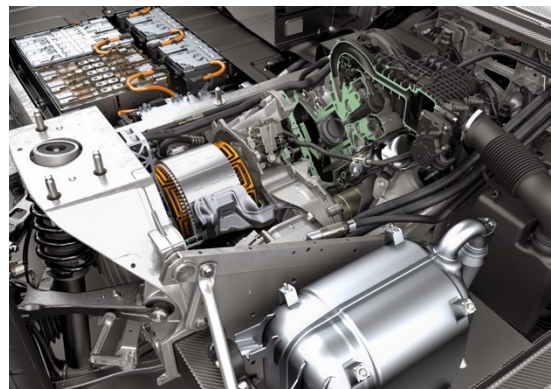


Falcon Interface3™ utilize onboard Artificial Intelligence “AI” to accurately predict range and optimize performance settings. The system prioritize achieving a long driving range per charge. The xB3 offers a substantial range on a full battery charge.



- Triple redundant critical on-board system improves performance and enhances safety
- Fully Box Ford made Chassis

More kilometers of range with Range Extender: The Gasoline engine drives a generator for the production of electricity, extending the vehicle’s range up to 1,140 kilometers. The Range Extender is automatically activated



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Falcon Developed Technology:

Onboard Generator:

-Falcon xB3 can operate as a continuous 50kW generator able to provide electric energy for external use utilizing onboard gasoline fuel and/or battery system.. This allows the vehicle to act as a central hub and a micro Power Generation facility in remote areas, emergencies and during power outages..

-The onboard generation includes distribution panels and circuit breakers



Ford 2.3L EcoBoost Engine

Technical Specifications

Engine Type: 2.3L EcoBoost
Block / Head: Aluminum / Aluminum
Bore x Stroke (in): 3.45 x 3.7
Displacement (liters / cu. in):
2.3 / 140
Compression Ratio: 9.5:1
Fuel Injection: Direct Injection
Induction: Single twin-scroll
turbocharger
Fuel Requirement (octane):
87 (min.) / 91+ (rec.)
Exhaust Manifolds: 3-port integrated
into aluminum head
Power (HP @ RPM): 310 @ 5500
Torque (lb.-ft @ RPM): 350 @ 3000
Oil Capacity / Spec:
6 qts / SAE 5W-30
Weight (lbs.): 311
Dimensions (mm) H x W x L:
746 x 665 x 643



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Prototype shown, North America specification

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xB3 Standard Colors



Full Armor / VIP



Standard Cargo / Passenger



Ambulance / Fire Rescue



Standard Cargo / Passenger



Ambulance / Fire Rescue

Falcon Developed Technology:

Fully Configurable Drive Modes:

1-Default selectable drive model is Electric drive with Range extending gasoline motor extending the range and increasing the power.. This gives the most power with the longest range.

2-Electric only mode:

Allows the operator to drive the vehicle in electric only in the event silent operations are required or due to the lack of fuel availability

3-Gasoline Only:

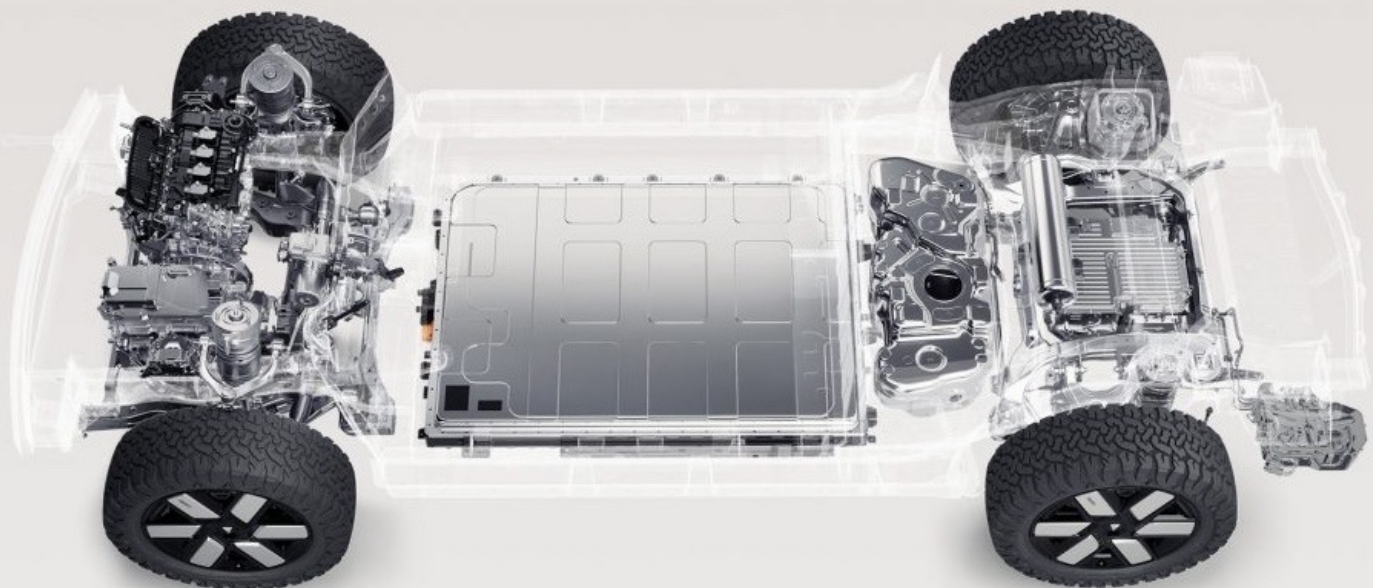
While limited on performance it allows the operator to conserve electric range for secondary operations such as providing onboard power for high demand operations such as x-Ray or facility main power.. Another use of this mode is conserving electric power for a portion of a trip that lacks availability of charging stations.

4-Electric First Gasoline Second:

This mode is designed for operations when the electric charging station is closer on a trip than a gasoline station

5-Gasoline First Electric Second:

This Mode is designed for operations when Gasoline Station is closer on a planned trip than an Electric Vehicle charging station



Prototype shown, North America specification

Dynamic Mode Selector:

Falcon 4th Generation Dynamic Mode Selector (DMS™) is designed specifically for high work-load operator environment.. The single knob allow the operator to change functionally and setup of multiple systems without needing visual detailed references, it is also designed to avoid utilizing any specific language cues and be intuitively operated.

The DMS™ allows the operator to manipulates dynamic set of functions through selection or in full Automation mode. The vehicle onboard system manages functions once the operator presses the A switch on the selection knob.

Key Functions:

- Drive Mode
- Suspension drive setup
- Climate systems
- SOS operations
- Maintenance and vehicle health
- Patient Vital Sign monitoring and actions

Example 1:

1-DMS™ detects off mapped road conditions, DMS™ mode function activates the following:

Suspension Drive Setup, Vehicle Off-Road light package, Enables on Screen off-Road indications. Operator can quickly command any of the functions or Select the Automation switch which activates all prioritized functions.

Example 2:

2-DMS™ detect a significant change in patient Vital conditions, DMS™ mode function activates the following:

Patient Vitals condition window takes over the Primary Display, Rear interior lights activates, Patient Camera activates on Secondary Display, Emergency lights function page opens for the operator.. Operator can quickly command any of the functions or Select the Automation switch which activates all prioritized functions.



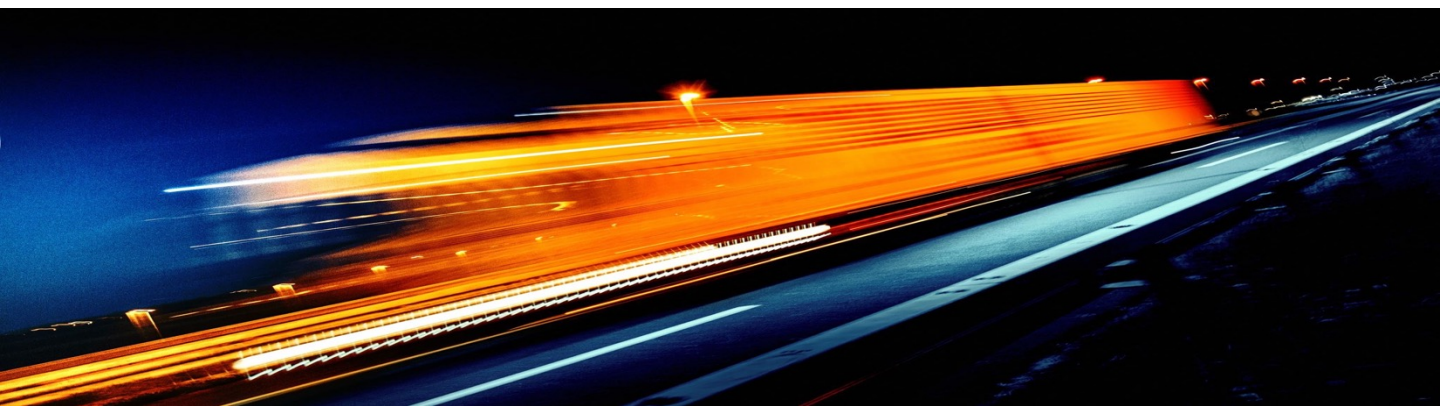
2025 Specifications:

| Item | Value | Standard | package | Region |
|-------------------------------|--|----------|---------|----------------------|
| Type | Specialized Medical Transport | S | | ALL |
| Seating | Configurable, 3 PAS + Patent + Cargo | S | | ALL |
| Drive System | Dual electric Motor 4 wheel drive with Gasoline Range Extender | S | | ALL |
| Suspension Type | All terrain off-Road tuned | S | | ALL |
| Front Suspension | Double Wishbone | S | | ALL |
| Rear Suspension | Multi link independent suspension | S | | ALL |
| Motor | asynchronous three-phase AC motors | S | | ALL |
| Power | 620 hp @ 4800 rpm / Intella-Torque 640 ft lb | | O | ALL |
| Voltage | 420V | S | | ALL |
| Battery technology | Prismatic Lithium Battery pack | S | | ALL |
| Standard Range | 1100 km /340 km on pure electric | S | | ALL |
| Range Extending system | Gasoline 6 cylinder IC motor generator directly coupled | S | | Mena / Asia / Africa |
| Range Extending Fuel type | Gasoline min. 89 Octane | S | | ALL |
| Range Extending Fuel capacity | 110 Liters | S | | ALL |
| Load Capacity | 1200 kg | S | | ALL |
| Length x Width x Height | 5534mm x 2065mm x 2090mm | S | | ALL |
| Curb Weight | 2750 - 6600 kg | S | | ALL |
| Top Speed | 160 km (electronically limited) | S | | ALL |



2025 PACKAGES & OPTIONS:

| PACKAGE | CONTENT | PACKAGE | CONTENT |
|---|--|--------------------------------------|---|
| Hot Climate package (F3X1) | High capacity Engine cooler High Capacity Electric motor cooler High Capacity HV Electric Battery cooler High Capacity Air conditioning Increased interior insulation panel | Medical Support 1 (F3MS1) | Static Stretcher single Patient Interior extended ultra bright lights Red Interior light for dark operations Fully blocked rear windows Mobile defibrillator Vital Sign Patient monitor with remote front screen Extra Power ports for Radios / computers / acc. Emergency lights package Extended Rear Bumper External work roof lights |
| B Medical systems specific | Customer Refrigerator external ventilation accelerated interior dehumidification built in sun shades (Windshield / side glass) Dual A/C units WindShield UV protection coating Exhaust manifold electric blower fans | Standard on xB3m | |
| | | Extended Mobility (F3T1) | Requires F3M1 package Front skid plate Secondary Battery skid plate Front Winch Side Roof Work lights Extended ground clearance |
| Cold Climate Package (F3Y2) | Heats Windshield Heated Mirrors Rapid supplemental heat FRF Battery heating technology Grill vent louvers Increased interior insulation panel Rear independent heater Heated 360 cameras (if equipped) Electronics warming elements Defogging clusters and screens Heated Seats Available plug for heated stretcher Heated Steering Wheel Roadside safety Package | Connectivity Package (F3C1) | in Vehicle WIFI Telematics data Remote access *Requires cellular network service* |
| | | Connectivity Package 2 (F3C2) | F3C1 package standard StarLink global internet service Extended wifi service in the vicinity of the Vehicle *Requires StarLink subscription* |
| Increased Weight Package (F3M1) | Large capacity suspension Increased Wheel hub capacity 4 piston large front brake calipers Large ventilated Brake rotors Reinforced carbon fiber Core frame Increased tire load capacity | Security Package 1 (F3A1) | LEVEL III partial Ballistic Protection Armored Driver & Passenger Door(LVL-III) Driver and Passenger Door window (LVL-IIIa) Armored frontal Firewall Armored Forward Bulkhead Shielded main vehicle electronics Requires F3M1 *windscreen is not protected* **Vehicle systems are not protect with F3A1** ***No over Lapping Protection*** |
| Safety & Aid Package 1 (F3FA1) | Lane departure Warning Front collision protection 360 cameras Parking sensors Remote locking and unlocking | | |



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xB3



Prototype shown, North America specification