



EMS  
EUROPE

# ecarry

100% electric  
Utility & Value  
Unique in its class



**GREEN-G**  
Electric Vehicles



# the rEVolution

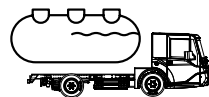




# ecarry.

The 100% electric vehicle you've been waiting for, is here!

ecarry is a 100% electric commercial vehicle with innovative and advanced ergonomic concepts. Unique in its category for range, performance, autonomy, size and ability to integrate any type of payload and role equipment.



Tank / Pump



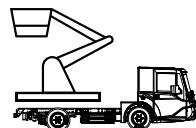
Waste collection



Rigid Body / Tipper



Food delivery / Refrigerated container



Aerial Platform



Ad hoc set up



# Why choose ecarry?



**REVOLUTIONARY VEHICLE MEANS  
EXTRAORDINARY BUSINESS**



**ERGONOMIC, PRACTICAL,  
COMFORTABLE.**



**ROBUST, COMPACT,  
AGILE.**



**GETS WHERE  
OTHERS CANNOT**



**SMALL DIMENSION,  
LARGE CAPACITY.**



**CONFIGURABLE FOR  
MANY VARIANTS.**



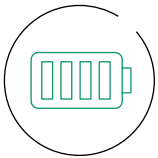
**BATTERY PACK'S MODULARITY  
THAT MEETS ALL NEEDS.**





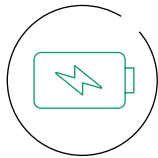
# The most advanced fully electric LCV in its category.

When choosing a *fully electric* Light Commercial Vehicle (LCV), it is important to evaluate the aspect of operational autonomy of the vehicle, as well as effectiveness and power.



## **AUTONOMY**

It can travel over 250 km (WLTP cycle) thanks to its NMC lithium-ion batteries (nickel, manganese, and cobalt).



## **ERGONOMY**

Developed according to criteria of comfort and ease of use which were defined right from the start of the project.



## **GETS WHERE OTHERS CANNOT**

Quiet, zero emissions, ideal for both city and suburban areas in respect of the environment.



## **CONFIGURABLE**

Available in many variants and even customized solutions.







# Care for the people, respect for the environment

For **Green-G**, human factors are a primary concern and that is why in the design of **ecarry**, we have paid particular attention to ergonomics, to the quality and comfort on board.

## MAXIMUM DRIVING COMFORT

With a volume of 3.5 m<sup>3</sup>, the **ecarry** cabin was designed for an ideal routine and comfort without comparisons. Two central armrests complement the standard equipment.

## LOWERED CABIN

Designed to reconcile ergonomics and operation, has an entry threshold just 380 mm from the ground.



## OVERVIEW SIDE-MIRRORS

Electrically adjustable and equipped with additional maneuvering mirrors to ensure maximum visibility of the road and the sidewalk.



## BRAKE AND ACCELERATOR PEDALS

Specifically designed for driving with safety shoes, as a guarantee of comfort and safety.

## CLEANING OF THE CABIN

To facilitate the cleaning of **ecarry's** cabin, it was designed with no central tunnel and the fabrics used are easily washable.

## PANORAMIC WINDSCREEN

**ecarry** is equipped with a panoramic windscreen that allows exceptional visibility from any angle.





#### **POWER WINDOW**

Developed to be used whilst wearing working gloves. A device that makes all activities fast and effortless.

#### **ADJUSTABLE STEERING WHEEL**

Steering wheel adjustment either axial or angular for a perfect driving position.

#### **CABIN VENTILATION**

Four air vents allow you to adjust the desired temperature inside the cabin.

#### **EVERYTHING AT YOUR FINGERTIPS**

Five comfortable compartments and a practical bottle holder on each door which allows to have everything to be handy.



### GRAPHIC LCD

Configurable to optimize the display of all the vehicle functionalities and to monitor any messages coming from the onboard control units.

### VENTILATION HEATER/ AIR CONDITIONER (optional)

Temperature regulation in the cabin is available in manual and automatic mode (Automatic Climate Control).

### CONTROL PANEL

Allows the activation of lighting devices, defrost and any additional devices.



### MAINTENANCE AND ASSISTANCE

The monitoring of all electronic devices is entrusted with Green-G tablet that allows to check all **ecarry** parameters. No more expensive devices, but a tablet with all the functions accessible in a simple and intuitive way.



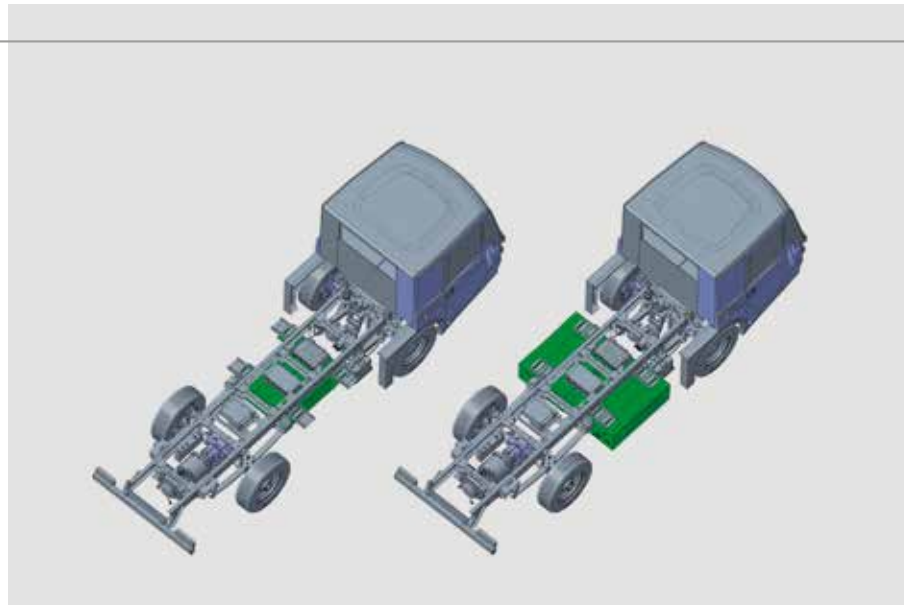
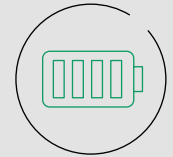
# The battery



## BATTERY PACK 35 OR 70 KWH

**e**carry is equipped with a battery pack with lithium-ion technology, Nickel, Manganese and Cobalt which allows an energy density equal to the leading electric cars on the market.

ECE R100 certified, it guarantees very high safety standards, such as the resistance to impact, corrosion, perforation, electrical dispersion and naked flame.



## ENERGY MODULARITY ON BOARD

The standard equipment of **e**carry features a 35 kWh battery and can be combined with an additional 35 kWh battery pack as an option. This modularity ensures an autonomy of over 250 Km in the WLTP cycle. The second pack battery can also be fitted as an after market option.



# ecarry in detail

## THE PROJECT

**ecarry** was designed as a “fully electric” vehicle right from the start. It is equipped with a lowered cabin and rear-wheel drive. The motor is directly coupled with the rear axle eliminating the need for a propeller shaft.



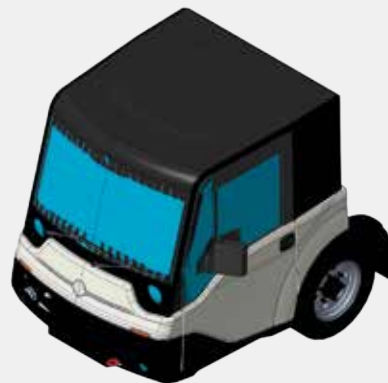
## THE CHASSIS

It is made up of 2 “C-shaped” beams with electrophoresis deposition treatment and powder coating. The suspensions are longitudinal leaf spring on 4 wheels which allow maximum payload within small vertical spaces. As an option, the wheel base can be adapted from the 2500 mm (std.) up to 3100 mm (max).



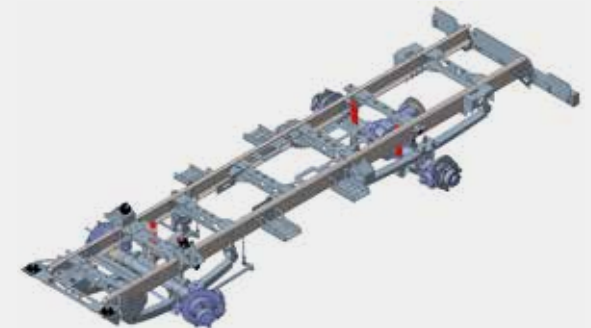
## THE CABIN

2-seater cabin with volume of 3 m<sup>3</sup> which complies to all safety certifications. The door design allows visibility of the sidewalk. The entrance step is only 380 mm from the ground.



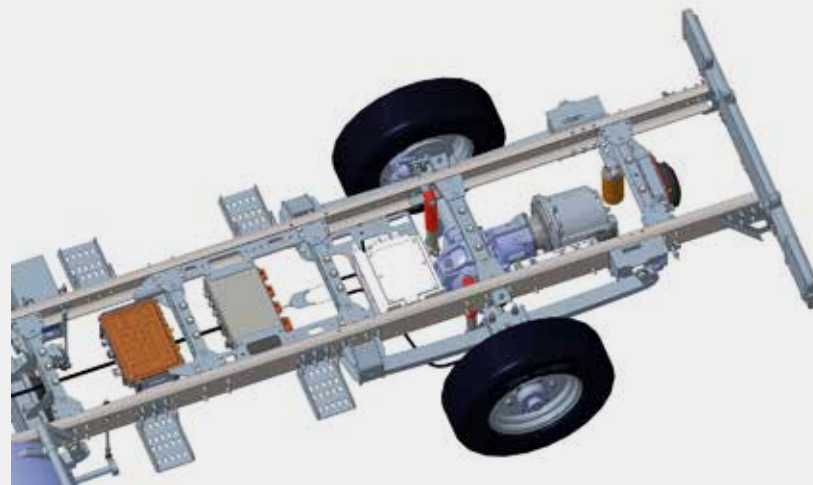
## BRAKING SYSTEM

The power-assisted braking system is equipped with an electric vacuum pump. A 4-channel ABS unit is operated with 4 disc brakes.



## THE MOTOR

The motor with nominal power from 60 kW up to 90 kW peak, is of the permanent magnet type with square section windings (hairpin stator technology) which significantly increase power for the equivalent weight. Cooled with an air-to-liquid exchanger for efficiency. A torque of 380 Nm sets ecarry at the top of its category.



## SIMPLIFIED MAINTENANCE

Access to all control units is achieved without the need to remove the equipment. The IP67 certification guarantees the maximum reliability of all electrical and electronic components.

# Standard equipment

## BIDIRECTIONAL DATA INTERFACE

A telemetry technology that allows to monitor remotely the main vehicle parameters and even the installed equipment parameters.



## HEATING SYSTEM

Allows both automatic and manual control of the temperature inside the cabin. It can be combined with an air-conditioning system as an option.



## BATTERY CHARGER

With a power of 7.5 kW, it allows charging of the batteries without bulky and expensive external devices.



## FULL-LED TECHNOLOGY

ecarry is equipped with full-led technology on all lighting devices, thus guaranteeing reliability and functionality.



# Optional

## LHD OR RHD

Available as both left-hand drive and right-hand drive. ecarry can be driven in all countries of the world.



## ADDITIONAL BATTERY PACK

An additional 35 kWh battery pack, with brackets, wiring and activation software can be installed.



## "EPTO" (ELECTRIC POWER TAKE-OFF)

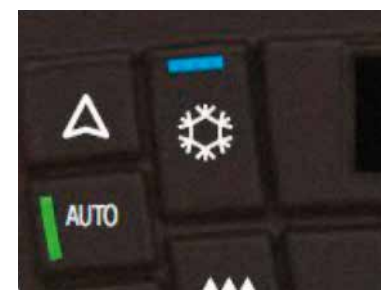
Composed of:

- 7.5kW electric motor with inverter;
- hydraulic pump (20l / min @ 150bar) with helical gear for quiet operation;
- motor-pump interface kit;
- 35-liter tank and accessories.



## AIR CONDITIONING

Controlled through the heater control panel.





## Accessories

### **PORTABLE CHARGER**

Allows the adjustment of the power from 1.4 kW to 7.4kW. This innovative solution is suitable for any CEE industrial socket both three-phase and single-phase with appropriate adapter.



### **ADAPTER**

Allows to charge the vehicle battery with THREE-PHASE 32A - SINGLE-PHASE 32A in all CEE industrial sockets.



### **PORTABLE EXTERNAL CHARGER**

Developed to allow Green-G batteries to be recharged even when they are not installed in the vehicle.

- power selectable from the display (maximum power 7.4kW);
- IP67 protection level;
- customized configurations available.



### **CHARGING CABLE**

Equipped with two Mennekes-Mennekes connectors type 2, 32A, 8 meters in length. IP55 certified cable, made with materials resistant to oil, fire and UV rays.



## Other accessories:

- **WHEEL COVERS**
- **STORAGE NET COMPARTMENTS**
- **SAFETY KIT (STD) (VEST + TRIANGLE + TOW HOOK)**
- **TIRE REPAIR KIT**
- **CUSTOMIZED REGENERATIVE BRAKING MODE**
- **CUSTOMIZED TORQUE**
- **FAST-CHARGE SOCKET**

## Cabin colors

### **AVAILABLE CABIN COLORS**

Standard colors



Colors by request



# Technical Specifications

## EQUIPMENT

Advanced Cabin	standard
Charger 7.4 kW	standard
Regenerative Braking System	standard
Handbrake with travel inhibition sensor	standard
Adjustable seats with headrest	standard
Driver-presence sensor	standard
Two-zone heated windscreen	standard
LED headlights	standard
Automatic Heating System	standard
Air conditioning	optional

## PERFORMANCE

Homologation	N1
Top speed	80 km/h
Maximum unladen weight (w/o batteries)	1450 kg
Gross Vehicle Mass (GVM)	3500 kg
Payload on chassis	1700 kg
Maximum turning circle	12 m

## GENERAL DIMENSIONS

Length	5640 mm
Width	1590 mm
Height	1930 mm
Front cabin height	380 mm
Front overhang	1800 mm
Front angle of attack (laden vehicle)	20%
Number of seats	2
Wheel base available (***)	From 2500 to 3100 mm

## TRANSMISSION

Rearwheel drive	standard
Rear Axle with Reduction and differential	standard
Reduction ratio	12:1

## BRAKES

Hydraulic Brake System	standard
Brake Booster	standard
4-channel ABS system	standard

## ENGINE

Vector-controlled permanent magnet motor	
Voltage	350V DC
Peak power	90 kW
Nominal power	60 kW
Maximum torque	380 Nm

## SUSPENSION

Front	Leaf spring and Shock absorber
Rear	Leaf spring and Shock absorber

## WHEELS AND TIRES

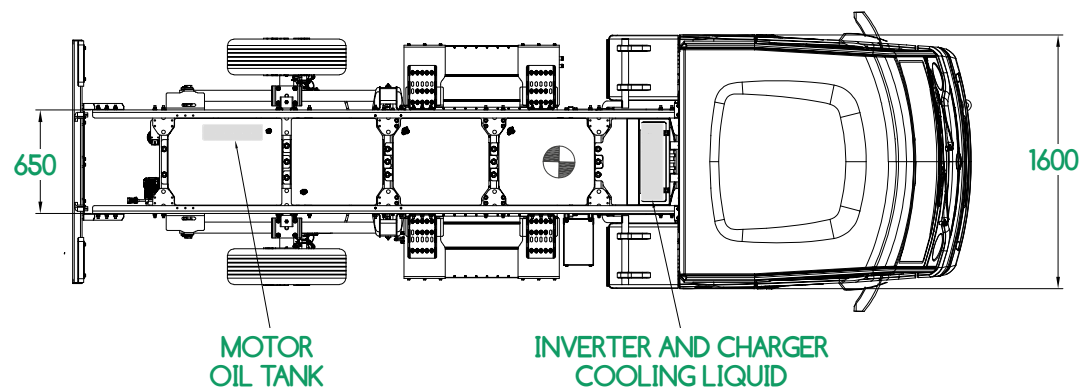
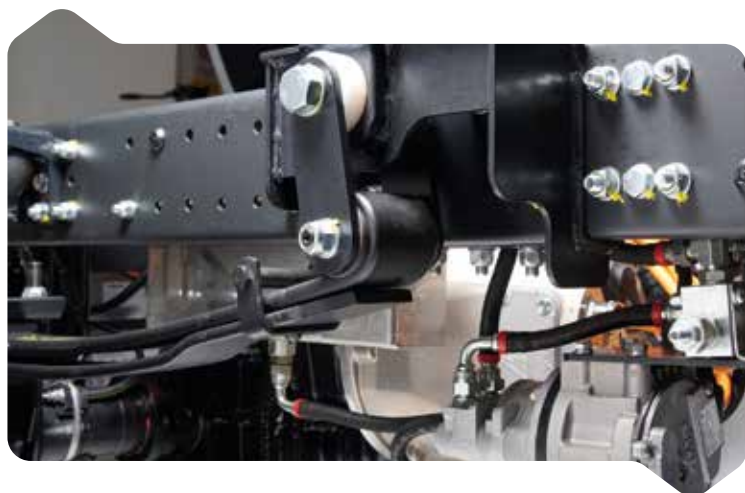
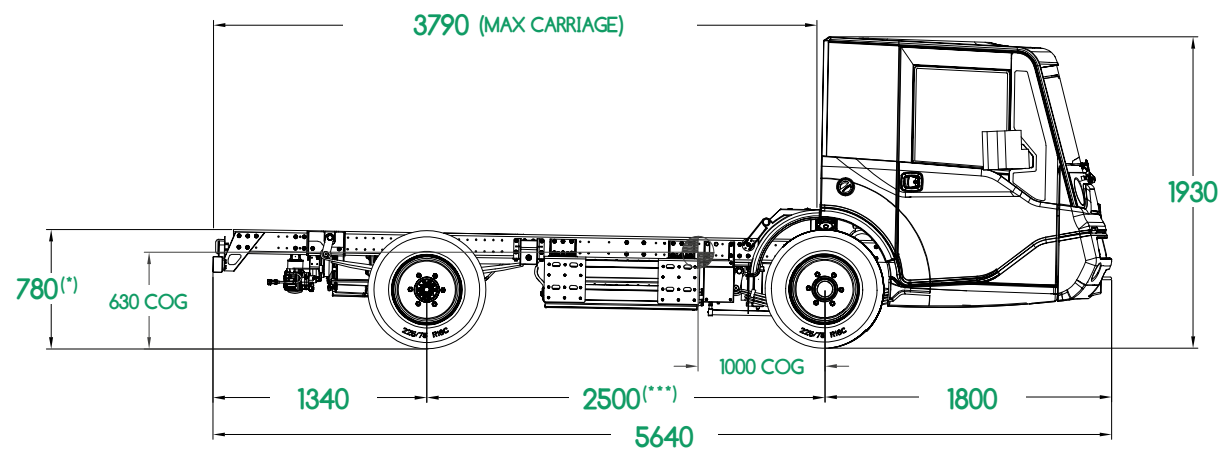
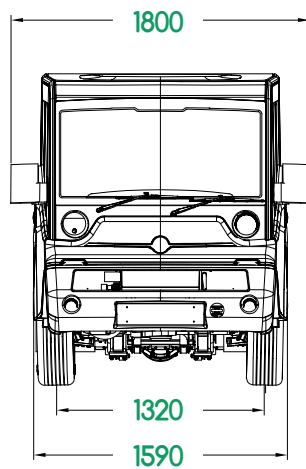
Tire dimensions	225/75 R16 C
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## BATTERY

Lithium-Ion NMC	from 35 kWh (**)
Range	up to 250 km WLTP
35 kWh Battery weight	295 kg
ECE R100 Certification	standard

(\*\*) Battery module of 35kWh. 1 or 2 modules may be specified





(\*) ecarry with unladen vehicle with 35kWh battery pack



## A new business unit with a long history.

Green-G Electric Vehicles is the new business unit of Goriziane. A company which is focused on the current environmental sustainability applied to the development of LCVs. Green-G is a future-oriented business unit with deep historical roots. The Goriziane Group has been an international point of reference in the design of advanced engineering systems applied for the defence, oil & gas, naval & maritime, industrial, and railway sector for more than 70 years.

## Exclusive importer, distributor & service partner (Benelux)



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