



# Chebela®

## e-mobility concept



### FULL ELECTRIC VEHICLE (FEV)

- L7E Category
- Power limited to 15 kW
- Speed limited to 90 km/h
- 2+2 Seats or 2 Seats + Cargo
- Lithium-Ion or Lithium-Polymer Battery
- Intelligent Battery Management System
- Ready for Car2Car Communication
- Ready for IT Network Connectivity
- Up to 10 kW capable On-Board Charger
- Ultra Light Design - Weight without Batteries up to 400 kg

### USE CASES

- Private Use
- Post Office Delivery
- Medical Service
- Pizza Delivery
- City Police
- Rent A Car
- Car Sharing
- Private Security

### OPTIONAL EQUIPMENT

- Hard Top
- Fabric Roof
- LED Head Lights
- Xenon Head Lights
- Recaro Sport Seats
- 22 kW Fast Charger
- Cargo Box
- Custom Upgrades for different Use Cases

■ Specialist for E-Mobility Research & Development -  
Realize Your own Ideas with our Knowledge

■ Rapid Prototyping and Development -  
Interested in Joint Venture?

■ Do it with CHEBELA R&D TEAM by OPREMA RAVNE

  
Oprema Ravne



# Chebela®

## e-mobility concept

### PROTOTYPE

- Prototype homologation in the year 2016
- It was selected for testing the Mobincity system ([www.mobincity.eu](http://www.mobincity.eu))
- It offers a lot of optional equipment

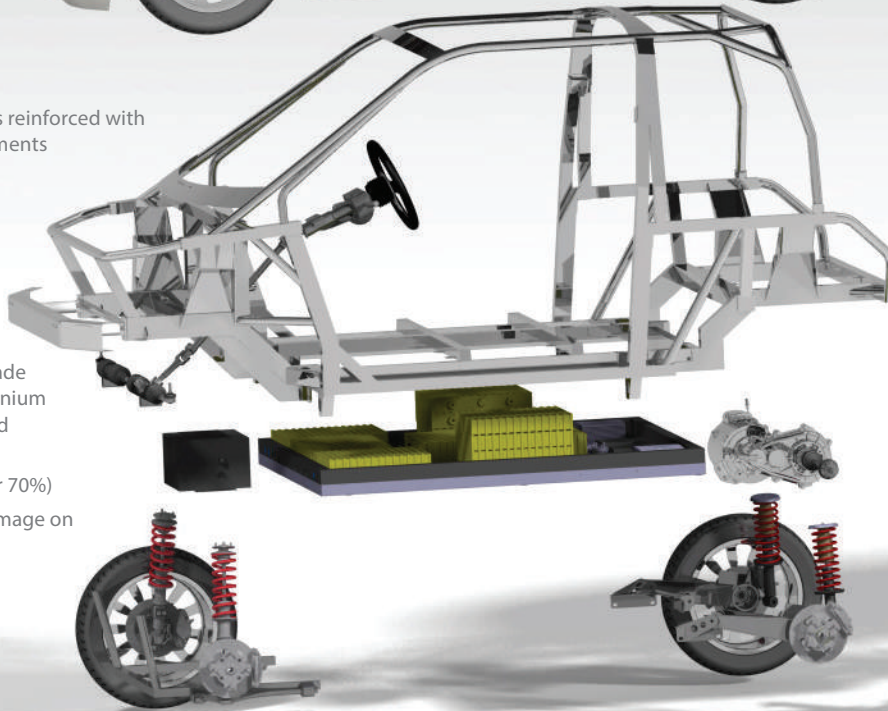


### CAR BODY

- Optional material for the outer panels (fiberglass, ABS or CFRP)
- Hard top or fabric roof
- LED or Xenon lights
- Customizable trunk (cargo box, back seats...)
- Optional inner material

### CHASSIS

- Lightweight aluminium chassis reinforced with high strength, boron steel elements
- Very low center of gravity
- Aluminium tube frame chassis



### CRASHBOX

- The crashbox variations are made of lightweight materials (aluminium and carbon fiber composite and a hybrid of both materials)
- High crash load efficiency (over 70%)
- Energy absorption without damage on chassis up to 15 km/h

### POWERTRAIN

- Letrika AC inductor motor
- 15 kW nominal power
- CANOpen communication
- 1 : 8,47 Gear ratio
- Reduce noise level
- High efficiency with low gear friction

### FRONT SUSPENSION

- MacPherson struts
- Lightweight shock absorbers
- Lightweight steering components
- Turning radius 5,5m

### BATTERY BOX

- 18 kWh installed battery capacity
- REC BMS
- 300 Ah/cell
- Easy installation and maintenance
- Ready for different battery configurations

### REAR SUSPENSION

- Independent semi-trailing arm suspension
- Lightweight shock absorbers
- Progressive springs

PARTNERS



Oprema Ravne, d.o.o. | Koroška c. 14  
SI-2390 Ravne na Koroškem, Slovenija  
T: +386 28 70 79 44 | [www.opreमारavne.si](http://www.opreमारavne.si)

Msc. Marijan Kotnik, R&D Manager  
[marjan.kotnik@opreमारavne.si](mailto:marjan.kotnik@opreमारavne.si)