ECOLOGICAL
Zero CO2 emissions and no noise pollution.
The Alke’ electric vehicles work in closed environments, in restricted traffic areas and where there are strict environmental limits. Mobility is no longer a problem within hospitals, recovery centres, university campuses, sporting arenas, natural protected areas and cultural sites.

ROAD DRIVING
N1 type-approved for road circulation in Europe.
Alke’ electric vehicle are always at the centre of city life and are ideal for use by municipalities, logistical operators in historic city centres, environmental and waste collection services, postal services, catering services, street food, etc.

ALWAYS READY
High autonomy and non-stop operation for shift work.
Alke’ electric vehicles are always by your side. Choose a high capacity battery, a quick charge system for Lithium batteries or the battery swap system and you will never be left standing.

ELECTRIC VEHICLES
ROAD DRIVING
N1 type-approved for road circulation in Europe.
Alke’ electric vehicles are always at the centre of city life and are ideal for use by municipalities, logistical operators in historic city centres, environmental and waste collection services, postal services, catering services, street food, etc.

ALWAYS READY
High autonomy and non-stop operation for shift work.
Alke’ electric vehicles are always by your side. Choose a high capacity battery, a quick charge system for Lithium batteries or the battery swap system and you will never be left standing.
HIGH-PERFORMANCE
High performance Motors and Controllers.
The Alke’ electric vehicles are fitted with motors providing high torque and gradual power distribution, ideal for intensive industrial use and at the same time, for handling demanding off-road terrain, such as sand, snow or ice.

ROBUST
Designed to last.
Alke’ electric vehicles are fitted with technical solutions and components originating from the off-road and industrial sectors which, together with high level construction standards, make them unique in terms of robustness and reliability.

COMPACT BUT TENACIOUS
Versatility in a concentrated form.
Alke’ electric vehicles are compact, ideal for working in restricted areas (also indoors), but at the same time offer service levels which are second to none when compared to similar vehicles; it is no coincidence that they are the preferred choice for the most important European industrial players, and not only.
<table>
<thead>
<tr>
<th>Configuration</th>
<th>Diagram</th>
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<tbody>
<tr>
<td>DR1</td>
<td><img src="image" alt="Dropside body" /></td>
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<tr>
<td>TP1</td>
<td><img src="image" alt="Dropside tipper body" /></td>
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<td>TP3</td>
<td><img src="image" alt="3-side tipper body" /></td>
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<tr>
<td>ME1</td>
<td><img src="image" alt="Dropside body with mesh sides extension" /></td>
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<tr>
<td>DR2</td>
<td><img src="image" alt="Dropside body with front storage box" /></td>
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<tr>
<td>ME2</td>
<td><img src="image" alt="Dropside body with front storage box + mesh sides extension" /></td>
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<tr>
<td>BV1</td>
<td><img src="image" alt="Box van body with sliding doors" /></td>
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<tr>
<td>BV2</td>
<td><img src="image" alt="Box van body with roller shutter doors" /></td>
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<tr>
<td>TA1</td>
<td><img src="image" alt="Tarpaulin body openable on three sides" /></td>
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<tr>
<td>TA2</td>
<td><img src="image" alt="Tarpaulin body with customised colours" /></td>
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<td>IS1</td>
<td><img src="image" alt="Isothermal body" /></td>
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<td>RE1</td>
<td><img src="image" alt="Refrigerated body 0 +4 °C" /></td>
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<td>RS1</td>
<td><img src="image" alt="Rear seats kit" /></td>
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<tr>
<td>RS2</td>
<td><img src="image" alt="Rear seats kit with roof" /></td>
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<tr>
<td>RS3</td>
<td><img src="image" alt="Box van body with double bench seats" /></td>
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<td>LH1</td>
<td><img src="image" alt="Roof ladder holder" /></td>
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<td>AM1</td>
<td><img src="image" alt="Ambulance body" /></td>
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<td>AM2</td>
<td><img src="image" alt="Ambulance body with roof" /></td>
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<tr>
<td>SN1</td>
<td><img src="image" alt="Front snow plough" /></td>
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<td>SN2</td>
<td><img src="image" alt="Rear salt spreader" /></td>
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<td>FF1</td>
<td><img src="image" alt="Water-based firefighting unit" /></td>
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<td>FF2</td>
<td><img src="image" alt="Foam-based firefighting unit" /></td>
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<td>WP1</td>
<td><img src="image" alt="Watering unit" /></td>
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<tr>
<td>CL1</td>
<td><img src="image" alt="Cleaning unit with high pressure washer" /></td>
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<td>MS2</td>
<td><img src="image" alt="Ice-cream van body" /></td>
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<td><img src="image" alt="Pizza van body" /></td>
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<td>MS4</td>
<td><img src="image" alt="Street food van body" /></td>
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<tr>
<td>TL1</td>
<td><img src="image" alt="Tail lift and dropside body + mesh sides extension" /></td>
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<tr>
<td>TL2</td>
<td><img src="image" alt="Tail lift and box van body" /></td>
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<tr>
<td>CR1</td>
<td><img src="image" alt="Dropside body with crane" /></td>
</tr>
</tbody>
</table>

Find out among our configurations the best solution for your needs!

Alke' can develop special configurations upon request.

All the configurations presented are available for the vehicles with:

- 2-seat cab
- 4-seat cab
- left-hand drive
- right-hand drive

Hundreds of available solutions!
The range of ATX electric vehicles is used daily by the most significant names in manufacturing industries and tourism as well as leading companies in more than 40 countries across the globe.

Alke’ ATX have been operating for years in critical areas such as the frozen lands of northern Europe or the extreme temperatures of the Sahara or other remote locations in the Far East and Africa.

**PUBLIC SECTOR**
- municipal services, hospitals, school and university campuses, community services, cemeteries, park and green area maintenance, waste collection services, ecological and environmental services, civil protection, fire-prevention services, maintenance services in historical centres

**INDUSTRY AND COMMERCE**
- industrial plants, shipyards, logistical centres, ports and airports, inter-ports, railway stations, exhibition structures, postal and courier services, catering services, home delivery services, conference centres, shopping centres

**TOURISM SECTOR**
- holiday parks, resorts, residences and hotels, golf clubs, parks, camp sites, beaches, seaside resorts, tourist-cultural sites, cultural sites, zoos and amusement parks, sport centres, ski centres, first aid services

**AGRICULTURE SECTOR**
- farms, farmhouses, riding schools, organic farming centres, fish farms, vineyards, wooded areas, garden centres, nurseries, floriculture, greenhouses, estates on flat or hilly terrain, maintenance of parks of villas and castles
Today, the challenge of professional mobility is not simply to identify the right vehicle but to find products capable of solving complex problems.

More and more, the vehicles which support us in our business must meet extremely restrictive environmental impact parameters both in terms of CO2 emissions and in terms of noise pollution.
We are increasingly looking for vehicles equipped with special equipment and configurations to carry out specific activities quickly and efficiently.

Vehicles which are comfortable to drive but also capable of working in adverse weather conditions even for whole days.

Vehicles which could be integrated with fleet management cloud platforms, and equipped with monitoring tools able to anticipate potential faults or allow them to be resolved quickly.

The Alke’ ATX can be this. And more.
Suitable for working in small spaces

This is the short model of the ATX range, and for this reason, it is the most suitable for operating in small spaces which require agility and reduced steering radius. It is at its most comfortable amongst the buildings of small historic centres, in warehouses, greenhouses, underground levels of hospitals and museums or estates on hilly terrain with roads with tight bends. The configuration with an open loading bed has a useful surface area of 130x123 cm.

Ideal for the city and tourism

This is the lightest of the ATX models with an intermediate loading bed of 180x123 cm. It is particularly suited for urban environments, for home delivery services, catering services, waste collection or for assisting professionals who need to get around restricted traffic areas together with their tools and materials. It is the ideal choice for camp sites, resorts and other tourism structures.

Identify your vehicle work environment needs (number of seats in the cab, autonomy, capacity, traction ability, urban or off-road use, cargo area configuration, etc.) and choose the right model which fits better this goal.

**ATX 310E**

- **KG**
  - **PUBLIC ROAD USE**
    - max. capacity: 620 kg
    - max. towing capacity: 1.200 kg
  - **TOP SPECS**
    - max. capacity: 620 kg
    - max. towing capacity: 2.000 kg
  - cargo area: 130x123 cm
  - max. autonomy: 72 km

**ATX 320E**

- **KG**
  - **PUBLIC ROAD USE**
    - max. capacity: 610 kg
    - max. towing capacity: 1.200 kg
  - **TOP SPECS**
    - max. capacity: 610 kg
    - max. towing capacity: 2.000 kg
  - cargo area: 180x123 cm
  - max. autonomy: 72 km
The top of the range for off-road use

This is the best choice in terms of agility and performance, ideal for off-road applications even on difficult terrain such as sand, snow and ice. For this reason, it is often chosen by tourism structures in coastal areas or resorts in the hills or mountains. In industrial environments, airports and railway stations it is used for logistics to move bogies and heavy trailers of up to 4,500 kg.

For round-the-clock intensive use in industry

This is the top model which ensures maximum flexibility in terms of battery selection as it can count on quick-charge Lithium batteries or quick-change multiple battery systems. It can work for double or triple work shifts. It is the preferred choice of the most important names in the automotive and aerospace industries in Europe within their production plants.

Road type-approval for four seats

It is available in the double cab versions of the models 330E and 340E which allow work teams of four people to get around, even on public roads. Thanks to the characteristics, the number of vehicles in use in the field can be halved, ensuring significant savings are made while simultaneously maintaining high levels of overall capacity and towing capacity.
The ATX electric vehicles are available with 5 different wheelbases, left-hand drive and right-hand drive, cab with 2 or 4 seats, 3 different sized cargo beds with the possibility of customised variants upon request.
### TYPE-APPROVAL | CAB SEATS

- EU on-road type-approval
- seats inside the cab: N1, N1, N1, N1
- right-hand drive: Δ, Δ, Δ, Δ
- as standard, Δ optional

### PERFORMANCE

- top speed: 44 km/h
- maximum negotiable slope (with high-performance batteries): 30 %
- maximum autonomy: Lead-Acid 10 kWh [km]: 30 km, 32 km, 31 km, 32 km, 33 km

### TYPE-APPROVAL | CAB SEATS

- N1: 310, 320, 330, 340

### WEIGHTS | CAPACITY AND TOWING

- UVW: unloaded vehicle weight (chassis version with battery): [kg]: 890, 900, 900, 1,050, 910, 1,050
- GVW: gross vehicle weight (max weight for fully-loaded vehicle): [kg]: 1,510, 1,510, 2,150, 2,150, 2,500, 2,500
- GCW: gross combined weight (max weight for fully-loaded vehicle + trailer): [kg]: 2,500, 2,500, 4,100, 4,100, 4,100, 4,100
- maximum towing capacity (on road | braked trailer): [kg]: 1,200, 1,200, 2,000, 2,000, 2,000, 2,000
- maximum traction power: [N]: 2,800, 2,800, 5,230, 5,230, 6,500, 6,500
- maximum towing capacity (not on road | braked trailer): [kg]: 2,000, 2,000, 3,000, 3,000, 4,500, 4,500
- maximum chassis load capacity (= GVW - UVW): [kg]: 620, 610, 1,220, 1,100, 1,575, 1,455

### DIMENSIONS

- B length (version with cargo bed): [mm]: 1,380, 1,380, 1,380, 1,380, 1,380, 1,380, 1,380, 1,380, 1,380, 1,380
- D vehicle cab width (with wing mirrors open): [mm]: 1,650, 1,650, 1,650, 1,650, 1,650, 1,650, 1,650, 1,650, 1,650, 1,650
- E cab height (with standard tyres): [mm]: 1,890, 1,890, 1,890, 1,890, 1,890, 1,890, 1,890, 1,890, 1,890, 1,890
- F vehicle height with beacon light (with standard tyres): [mm]: 1,980, 1,980, 1,980, 1,980, 1,980, 1,980, 1,980, 1,980, 1,980, 1,980
- H wheelbase: [mm]: 1,850, 2,130, 2,130, 2,130, 2,130, 2,130, 2,130, 2,130, 2,130, 2,130

### MOTOR | CONTROLLER

- 48V AC, asynchronous induction electric motor
- maximum motor power: [kW]: 14, 14, 14, 14, 14, 14, 14, 14, 14, 14
- maximum motor torque: [Nm]: 113, 113, 113, 113, 113, 113, 113, 113, 113, 113
- CURTIS 48V control electronics
- vehicle performance settings (ECO and SPORT)
- auxiliary cooling system for motor / controller
### ELECTRIC VEHICLES

#### Clemson University

**Vehicle Body Computer (VBC)**
- **310**: Δ
- **320**: Δ
- **330**: Δ
- **340**: Δ

**12M STD Cloud Service license**
- **310**: Δ
- **320**: Δ
- **330**: Δ
- **340**: Δ

**12M PRO Cloud Service license**
- **310**: Δ
- **320**: Δ
- **330**: Δ
- **340**: Δ

### TECHNICAL SPECIFICATIONS

#### TRANSMISSION
- Transmission with electronic speed variation
- Rear wheel drive
- Heavy-duty differential unit

#### SUSPENSIONS
- Front suspension with MacPherson type independent wheels
- Rear suspension with De-Dion bridge and stabiliser bar

#### BRAKES
- Front hydraulic disc brakes and rear hydraulic drum brakes
- Rear hydraulic drum brakes with mechanical servobrake
- Parking brake
- Regenerative brake

#### STEERING
- Rack and pinion steering
- Electric power steering (EPS)

#### BODY | CHASSIS
- White body
- Customised body colour
- Steel chassis with anti-corrosion treatment and powder coating finish
- Impact-resistant polyethylene front and rear bumpers

#### SAFETY
- 3-point seat belt for driver and passenger(s)
- Immobilizer and presence sensor on driver’s seat
- Steering lock with key
- Horn / reverse buzzer
- Rear view camera with LCD rear view monitor
- Forward gear buzzer activable from dashboard
- Safety switch inside the cab for 48 V drive battery
- Safety switch inside the cab for 12 V service battery
- Tyre repair kit

#### LIGHTS
- Full LED rear lights
- Rear fog light and LED reversing light
- LED DRL lights
- Orange flashing LED on cab roof
- Blue flashing LED on cab roof

#### CAB | COMFORT
- Timed heated windshield
- Electric demister
- Webasto heating (as an alternative to electric demister)
- Air-conditioning
- Adjustable seats
- Front doors
- Front doors with sliding windows
- Rear doors
- Armrests
- Headrests
- Rear seat bench
- Cab interior lighting

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<table>
<thead>
<tr>
<th>Vehicle</th>
<th>310</th>
<th>320</th>
<th>330</th>
<th>340</th>
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<td>Lead-Acid 14.4 kWh</td>
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<td>Gel 7.2 kWh</td>
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<td>Gel 7.2 kWh</td>
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<td>Lithium (LiFePO4) 20 kWh</td>
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<td>Lithium (LiFePO4) 20 kWh (cycles)</td>
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<td>Lead-Acid 10 kWh (hours)</td>
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<td>Lead-Acid 14.4 kWh (hours)</td>
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<td>Gel 7.2 kWh (hours)</td>
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<td>Lithium (LiFePO4) 10 kWh (hours)</td>
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<td>Lithium (LiFePO4) 20 kWh with quick charge (hours)</td>
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</table>
### CONFIGURATIONS AND CARGO AREA ACCESSORIES

#### Flatbed for special configurations
- **Dropside body with manual tipping (aluminium drop sides H30 cm)**
  - 1,80 x 1,23 cm
  - 200 x 140 cm
- **Flatbed for special configurations**
  - 130 x 123 cm
  - 180 x 123 cm
- **Mesh sides extension H55 cm with rear drop side with upwards opening**
  - for body 130 x 123 cm
  - for body 180 x 123 cm
- **COMBI mesh sides extension H55 cm 150 x 123 cm with rear drop side**
- **Electro-hydraulic tipping for dropside body unit**
  - for body 130 x 123 cm
  - for body 150 x 123 cm
  - for body 180 x 123 cm
- **Tarpaulin body H108 cm openable on three sides for dropside body**
  - for body 130 x 123 cm
  - for body 180 x 123 cm
- **Tarpaulin body H108 cm with slideable side extension H55 cm**
  - for body 180 x 123 cm
- **Custom colour for tarpaulin body**
- **Tarpaulin roof H105 cm for rear seats kit**
- **Ambulance body equipped with spine board and box/seat for medical staff**
- **Roof for ambulance body**
- **Box van body H122 cm 180 x 125 cm with sliding doors (2 per side)**
- **Box van body H122 cm 200 x 140 cm with sliding doors (2 per side)**
- **Box van body with side roller shutters H132 cm 200 x 140 cm**
- **Set 2 shelves for box van body with sliding doors (each shelf covers half of the depth)**
  - 180 x 123 cm
  - 200 x 140 cm
- **Dropside body 150 x 123 cm COMBI**
- **COMBI storage box 45 x 125 cm H110 cm**
- **Watering unit with 600 L tank**
- **COMBI high pressure cleaner with 210 L tank and 20 m hose**
- **High pressure cleaner with 600L tank and 20 m hose**
- **Load lashing eyes on loading bed**
- **Tail lift and dropside body 200 x 140 cm H30 cm with mesh sides extension H55 cm**
- **Tail lift and box van body 200 x 140 cm**
- **Isothermal body H120 cm**
  - 180 x 123 cm
  - 200 x 140 cm
- **Isothermal body H130 cm**
  - 180 x 123 cm
  - 200 x 140 cm

### Energy Specifications

<table>
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</tbody>
</table>

### Electric Vehicles Specifications

- **Lead-Acid 10 kWh**
- **Lead-Acid 14.4 kWh**
- **Gel 8.7 kWh**
- **Gel 13.2 kWh**
- **Lithium (LiFePO4) 10 kWh**
- **Lithium (LiFePO4) 20 kWh**

### Technical Specifications

- **Consumption for complete recharge**
- **12 V services auxiliary battery**
- **Battery charge on vehicle (PFC active)**
- **External quick battery charge (Lithium only)**
- **Battery swap system**
- **Battery top-up**
- **Ambulance body equipped with spine board and box/seat for medical staff**
- **Custom colour for tarpaulin body**
- **Removable rear seats kit with two independent seats, platform and 2-points seat belts**
- **Load lashing eyes on loading bed**
- **Tail lift and dropside body 200 x 140 cm H30 cm with mesh sides extension H55 cm**
- **Tail lift and box van body 200 x 140 cm**
- **Isothermal body H120 cm**
- **Isothermal body H130 cm**

### Notes

- **As standard**
- **Optional**
- **Compatible but not type-approved for road circulation**
- **Vehicle with standard wheelbase**
- **Vehicle with long wheelbase**
### Technical Specifications

**Refrigerated Body** 0-4 °C with side and rear door

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight [kg]</th>
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<tr>
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<td>330</td>
<td>200</td>
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<tr>
<td>340</td>
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</table>

**COMBI Waste Collection Body (1.7 m³ version)**

- Waste collection body 2.2m³
- Waste collection body 2.8m³
- Semi-trailer coupling system fitting DIN Ø40 drawbar eyes
- Tarp system for waste collection body
- Waste collection body with bin lift system 2.8m³
- Waste collection body with bin lift system 2.2m³

**Front / Rear Accessories**

- Front pin tow hitch
- Rear ball tow hitch
- Rear trailer hitch with ball & pin coupling (instead of standard ball hitch)
- Automatic tow hitch fitting DIN Ø40
- Front protective bumper
- Rear 13 pin connector
- Show plough hydraulic kit
- Snow plough
- Electric salt spreader
- Anti-roll kit
- Rear hydraulic kit

**Tyres**

- Road tyres (front and rear 175/65 R14)
- Road tyres (front and rear 175/70 R14)
- Low-profile road tyres (front and rear 225/55 R14)
- Turf tyres (front and rear 23x8.50-12 6PR)

**Technical Specifications**

- Top speed: Approximate, obtained on a flat surface in optimum usage conditions and in SPORT mode. Maximum negotiable slope: Approximate and assessed with vehicle empty in ideal usage conditions on discontinuous ramps. Maximum autonomy: The max autonomy value reported is indicative and refers to homologation data collected on WLTP cycle basis (combined circuit) with an configuration Alke' ATX vehicle with basic flatbed configuration. Estimated battery lifespan: Approximate figure, based on the information in the manufacturer's possession at the time this file was published. Maximum towing capacity: Calculated in optimum usage conditions, the trailers must have repulsion brakes and comply with the law. Maximum vertical weight on the tow hitch: 120 kg.

- The technical specifications indicated in this catalogue (performance, autonomy, dimensions, etc.) depend - or may depend - on temperature, terrain, driving style, accessories, load or use of the vehicle. The data usually refers to use on a flat surface in optimum usage conditions - i.e. a basic vehicle version with no load and with the lightest battery, on an even and paved road surface with an outdoor temperature of 25°C, the battery fully charged, on board electronic devices switched off, and without any other accessory consumption.

- The technical specifications, design and performance levels indicated in this technical data sheet are by way of example only and may be subject to modifications without prior notice.
With more than 25 years of experience and thousands of vehicles on the market, Alke’ is a key player in the electric road and industrial vehicle industry at an international level. Its products are positioned at the high end of the market in terms of quality and performance and are now sold in more than 40 countries around the world covering all continents. Amongst its customers, Alke’ is proud to be able to include big names in the industry, important organisations and exclusive locations.

<table>
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<th>25</th>
<th>a key player in the electric vehicle industry</th>
<th>dealers in more than 40 countries</th>
<th>thousands of vehicles sold worldwide</th>
<th>zero emission electric vehicles</th>
<th>quality, innovation and performance</th>
<th>100% made in Italy</th>
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<tr>
<td>25 years experience</td>
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</table>

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