ELECTRIC VEHICLES

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.

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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.
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.
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.
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.
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.
### DELIVERING SOLUTIONS

#### TYPE-APPROVAL | CAB SEATS
- EU on-road type-approval: N1
- seats inside the cab: 2
- right-hand drive: Δ

#### PERFORMANCE
- Top speed: [km/h] 44 44 44 44 35 35 44 44 44 44
- Maximum negotiable slope (with high-performance batteries): [%] 30 30 32 27 35 30 30 25 35 30
- Maximum autonomy (R101 test with 10.0 kWh battery in SPORT mode: 74 km)
  - Lead-Acid 10 kWh: 90 85 100
  - Lead-Acid 14.4 kWh: 90 85 100
  - Lithium (LiFePO4) 10 kWh: 90 85 100
  - Lithium (LiFePO4) 20 kWh: 90 85 100

#### DIMENSIONS
- Length (version with cargo bed): [mm] 3,030 3,530 3,530 3,730 3,530 3,730 3,530 3,730 3,530 3,730
- Vehicle cab width (without rear-view mirrors): [mm] 1,215 1,215 1,215 1,215 1,215 1,215 1,215 1,215 1,215 1,215
- Vehicle cab width (with wing mirrors closed): [mm] 1,380 1,380 1,380 1,380 1,380 1,380 1,380 1,380 1,380 1,380
- 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
- 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
- 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
- Wheelbase: [mm] 1,850 2,130 2,130 2,230 2,130 2,230 2,130 2,230 2,130 2,230
- Approach angle: [°] 40 40 40 40 40 40 40 40 40 40
- Departure angle: [°] 16 13 13 (1) 13 (2) 10 (1) 10 (2) 10 (1) 10 (2) 10 (1) 10 (2)
- Rear axle distance from ground: [mm] 130 130 130 130 130 130 130 130 130 130
- Maximum loading bed length: [mm] 1,400 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500
- Maximum loading bed width: [mm] 1,400 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500 1,500

#### WEIGHTS | CAPACITY AND TOWING
- UVW | Unloaded vehicle weight (chassis version with battery)
  - Lead-Acid 10 kWh: [kg] 890 900 930 1,050 935 1,055
  - Lead-Acid 14.4 kWh: [kg] 1,170 1,290 1,175 1,295
  - Lithium (LiFePO4) 10 kWh: [kg] 875 995 880 1,000
  - Lithium (LiFePO4) 20 kWh: [kg] 965 1,085 970 1,090
- GVW | Gross vehicle weight (max weight for fully-loaded vehicle)
  - Lead-Acid 10 kWh: [kg] 1,510 1,510 2,150 2,150 2,510 2,510 2,150 2,150 2,510 2,510
  - Lead-Acid 14.4 kWh: [kg] 1,510 1,510 2,150 2,150 2,510 2,510 2,150 2,150 2,510 2,510
  - Lithium (LiFePO4) 10 kWh: [kg] 1,510 1,510 2,150 2,150 2,510 2,510 2,150 2,150 2,510 2,510
  - Lithium (LiFePO4) 20 kWh: [kg] 1,510 1,510 2,150 2,150 2,510 2,510 2,150 2,150 2,510 2,510
- GCW | Gross combined weight (max weight for fully-loaded vehicle + trailer)
  - Lead-Acid 10 kWh: [kg] 2,500 2,500 4,100 4,100 4,100 4,100 4,100 4,100 4,100 4,100
  - Lead-Acid 14.4 kWh: [kg] 2,500 2,500 4,100 4,100 4,100 4,100 4,100 4,100 4,100 4,100
  - Lithium (LiFePO4) 10 kWh: [kg] 2,500 2,500 4,100 4,100 4,100 4,100 4,100 4,100 4,100 4,100
  - Lithium (LiFePO4) 20 kWh: [kg] 2,500 2,500 4,100 4,100 4,100 4,100 4,100 4,100 4,100 4,100
- Maximum towing capacity (on road | braked trailer)
  - Lead-Acid 10 kWh: [kg] 1,200 1,200 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000
  - Lead-Acid 14.4 kWh: [kg] 1,200 1,200 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000
- Maximum traction power
- Maximum towing capacity (not on road | braked trailer)
  - Lead-Acid 10 kWh: [kg] 2,150 2,150 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000
  - Lead-Acid 14.4 kWh: [kg] 2,150 2,150 2,000 2,000 2,000 2,000 2,000 2,000 2,000 2,000
- Maximum chassis load capacity (= GVW - UVW)
  - Lead-Acid 10 kWh: [kg] 720 720 1,150 1,150 1,400 1,400 1,150 1,150 1,400 1,400
  - Lead-Acid 14.4 kWh: [kg] 720 720 1,150 1,150 1,400 1,400 1,150 1,150 1,400 1,400

### 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

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**Legend:**
- as standard
- Δ optional
- ★ compatible but not type-approved for road circulation
- (1) vehicle with standard wheelbase
- (2) vehicle with long wheelbase
### 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)
- Minimum turning radius (mm):
  - 310: 2.300
  - 320: 2.600
  - 330: 4.110
  - 340: 4.130

### 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)
- Immobiliser 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
- Light specifications:
  - Front and rear lights in road style
  - 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

### Technical Specifications

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<th>310</th>
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</table>

- as standard
- Δ optional
-  compatible but not type-approved for road circulation
- (1) vehicle with standard wheelbase
- (2) vehicle with long wheelbase
### Technical Specifications

#### Sun visors
- Car audio system AM/FM/DAB/DAB+ with USB and Bluetooth
- Rear speakers for 4-seats models
- Openable front windscreen
- Central door locks with remote control
- Windscreen wiper with windscreen washer

#### Dashboard

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Battery State of Charge</th>
<th>Battery Capacity</th>
<th>Motor Temperature</th>
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<tbody>
<tr>
<td>Battery temperature</td>
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<td>Inverter temperature</td>
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<tr>
<td>Current delivered by inverter</td>
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#### Warning Lights

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Doors Lock</th>
<th>Brake Oil Shortage</th>
<th>Rear Fog Light</th>
<th>Electric Demister</th>
<th>Battery on Charge Status</th>
<th>Electric Motor Overheating</th>
<th>Forward Gear</th>
<th>Backward Gear</th>
<th>Neutral Gear</th>
<th>Emergency Lights</th>
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<th>aux 2_</th>
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<tbody>
<tr>
<td>Low Beam Headlights</td>
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#### Battery

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<tr>
<th>Type/Capacity</th>
<th>Lead-Acid 10 kWh</th>
<th>Lead-Acid 14.4 kWh</th>
<th>Gel 8.7 kWh</th>
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<th>Lithium (LiFePO4) 10 kWh</th>
<th>Lithium (LiFePO4) 20 kWh</th>
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<td>Gel 8.7 kWh</td>
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<td>Estimated Battery Life</td>
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<tr>
<td>Estimated Battery Charge Time</td>
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<tr>
<td>Consumption for Complete Recharge</td>
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#### Dashboard LCD Colour Display

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### Weight

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<td>Lead-Acid 10 kWh</td>
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<td>Lead-Acid 14.4 kWh</td>
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<td>Gel 8.7 kWh</td>
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*Optional compatible but not type-approved for road circulation*
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<td>external quick battery charge (Lithium only)</td>
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**CONFIGURATIONS AND CARGO AREA ACCESSORIES**

- **Dropside body with manual tipping (aluminium drop sides H30 cm):**
  - 130 x 123 cm + 105.0
  - 180 x 123 cm
  - 200 x 140 cm
  - 230 x 140 cm
  - 260 x 140 cm

- **Flatbed for special configurations:**
  - 130 x 123 cm + 80.0
  - 180 x 123 cm + 120.0
  - 200 x 140 cm

- **Mesh sides extension H55 cm with rear drop side with upwards opening:**
  - For body: 130 x 123 cm + 14.0
  - For body 180 x 123 cm + 15.0
  - For body 200 x 140 cm

- **COMBi mesh extension H55 cm 150 x 123 cm with drop side:**
  - Electro hydraulic tipping for dropside body unit

- **Dropside body 180 x 123 cm with three side hydraulic tipping:**
  - For body 130 x 123 cm + 190.0
  - For body 150 x 123 cm

- **Tarpaulin body H108 cm openable on three sides for dropside body:**
  - For body 130 x 123 cm + 25.0
  - For body 180 x 123 cm + 30.0
  - For body 200 x 140 cm

- **Custom colour for tarpaulin body:**
  - + 0.0

- **Tarpaulin body H110 cm for COMBi 150 x 123 cm dropside body:**
  - + 35.0

- **Removable rear seats kit with two independent seats, platform and 2-point seat belts:**
  - + 45.0

- **Ambulance body equipped with spine board and box/seat for medical staff:**
  - + 5.0

- **Roof for ambulance body:**
  - + 20.0

- **Box van body H122 cm 180 x 125 cm with sliding doors (2 per side):**
  - + 130.0

- **Box van body H132 cm 200 x 140 cm with sliding doors (2 per side):**
  - + 170.0

- **Box van body with side roller shutters H132 cm 180 x 123 cm:**
  - + 150.0

- **Box van body with side roller shutters H132 cm 200 x 140 cm:**
  - + 180.0

- **Set 2 shelves for box van body with sliding doors (each shelf covers half of the depth):**
  - 180 x 123 cm + 8.0
  - 200 x 140 cm + 12.0

- **Dropside body 150 x 123 cm COMBi:**
  - + 14.0

- **COMBi storage box 45 x 125 cm H110 cm:**
  - + 14.0

- **COMBi waste collection body (1.7 m³ version):**
  - + 14.0

- **Watering unit with 600 L tank:**
  - + 140.0

- **COMBi high pressure cleaner with 210 L tank and 20 m hose:**
  - + 150.0

- **High pressure cleaner with 600 L tank and 20 m hose:**
  - + 150.0

- **Load lashing eyes on loading bed:**
  - + 7.5

- **Tail lift and dropside body 200 x 140 cm:**
  - + 370.0

- **Tail lift and box van body 200 x 140 cm:**
  - + 390.0

- **Isothermal body H120 cm:**
  - 180 x 123 cm + 120.0

- **Isothermal body H130 cm:**
  - 200 x 140 cm + 140.0

- **Refrigerated body 0-4 °C with side and rear door:**
  - 180 x 123 cm + 220.0
### Technical Specifications

<table>
<thead>
<tr>
<th>Weight (kg)</th>
<th>310</th>
<th>320</th>
<th>330</th>
<th>340</th>
</tr>
</thead>
<tbody>
<tr>
<td>waste collection body 2.2m³</td>
<td>+250.0</td>
<td>+200.0</td>
<td>+280.0</td>
<td>+240.0</td>
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<tr>
<td>waste collection body with bin lift system 2.2m³</td>
<td>+150.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>waste collection body 2.8m³</td>
<td>+200.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>waste collection body with bin lift system 2.8m³</td>
<td>+100.0</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>tarp system for waste collection body</td>
<td>+300.0</td>
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</tr>
<tr>
<td>semi-trailer coupling system fitting DIN Ø40 drawbar eyes</td>
<td>+60.0</td>
<td></td>
<td></td>
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<tr>
<td>reverse inching device for easy trailers coupling</td>
<td>+4.0</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>semi-trailer coupling system with fifth wheel fitting 2&quot; kingpins</td>
<td>+4.0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### FRONT / REAR ACCESSORIES

- **Front pin tow hitch**
- **Rear ball tow hitch**
- **Rear trailer hitch with ball & pin coupling**
- **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)**
- **Road tyres (front and rear 175/75 R14)**
- **Low profile road tyres (front and rear 225/55 R12)**
- **Turf tyres (front and rear 23x8.50-12 GPR)**
- **Turf tyres (front 23x8.50-12 GPR and rear 23x10.50-12 8PR)**
- **Off-road tyres (front and rear 23x8.50-12 8PR)**
- **Off-Road tyres (front 23x8.50-12 GPR and rear 23x10.50-12 8PR)**
- **Spare wheel (provided separately)**

#### Accessories

- **Waste collection body 2.2m³**
- **Waste collection body with bin lift system 2.2m³**
- **Waste collection body 2.8m³**
- **Waste collection body with bin lift system 2.8m³**
- **Tarp system for waste collection body**
- **Semi-trailer coupling system fitting DIN Ø40 drawbar eyes**
- **Reverse inching device for easy trailers coupling**
- **Semi-trailer coupling system with fifth wheel fitting 2" kingpins**
- **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**

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**Note**: 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: approximate and obtained on a flat surface, in optimum usage conditions, with ECO mode and energy saver and adopting a correct driving style, at a speed no higher than 60% of the maximum speed, for non-continuous use (battery discharged in 5 hours). 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: 120kg. 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.
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