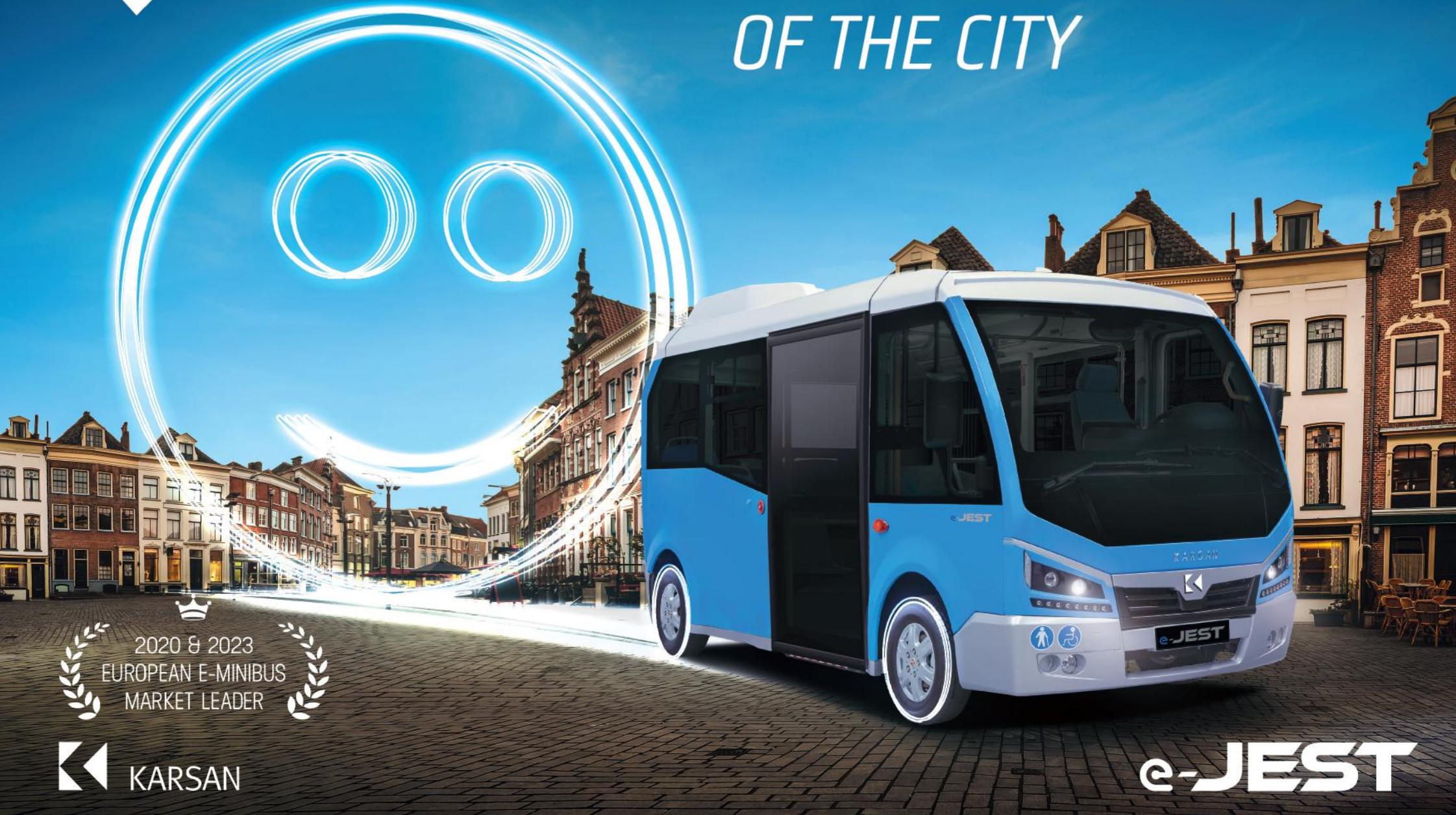




# e-JEST

## POSITIVE ENERGY OF THE CITY



**KARSAN**

**e-JEST**

# POSITIVE ENERGY NOW IN THE CITY

With features that push the boundaries of technology, e-JEST offers unique privileges and stimulates cities with positive energy. Are you ready for the future now?





e-JEST added a new one to its global achievements and became the market leader in the European market for the third time in a row.

According to Europe Minibus and Bus Market Report data published by Chatrou CME Solutions in 2020 & 2021 & 2022.

## e-JEST ALSO KNOWN AS SMALL CITY BUS

Designed to feed the main lines of city transportation, e-JEST can navigate narrow streets without difficulty thanks to its compact size. Therefore, it allows a transportation network that can expand and access every point in the city.



**135 kW**  
Max. Power



**290 Nm**  
Max. Torque



**25 %**  
Max. Gradeability



**70 km/h**  
Max. Speed



## Powerful BMW Electric Motor

Although e-JEST is battery powered, it is as powerful as diesel vehicles.

This power is derived from a BMW 100% electric motor which ensures strong acceleration performance. e-JEST is always ready with its strong, quiet and efficient motor to conquer any city terrain. e-JEST's efficient BMW motor generates high torque and reassures the driver in demanding situations.

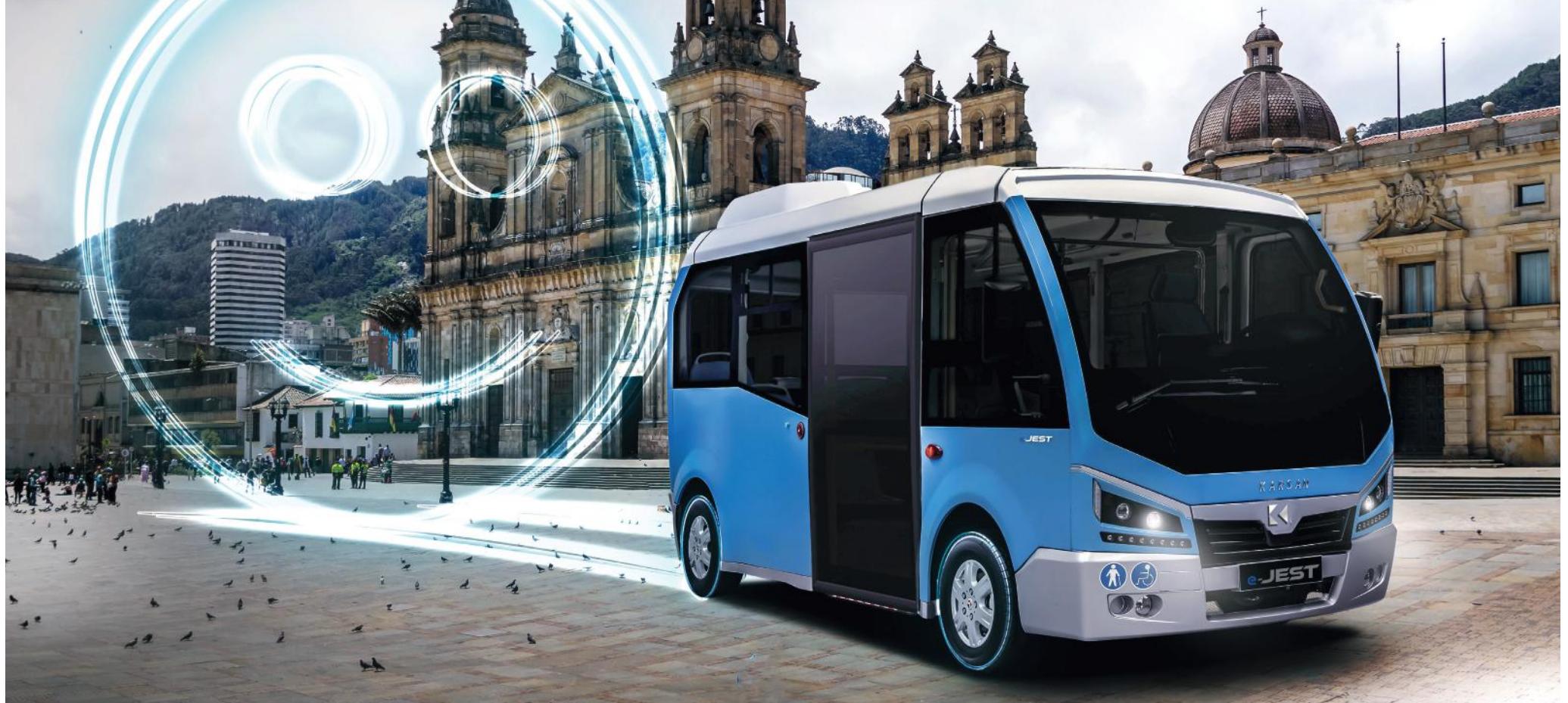
in cooperation with



## UNIQUE AND INNOVATIVE DESIGN

e-JEST respects and sustains the historical heritage of the city. Having a perfect look with its new age compact design, e-JEST is adapting to the texture of the city thanks to its small footprint.

It increases the image of the city and becomes an iconic figure.



# ATTRACTIVE DESIGN

## Charming Front Design

Traveling with e-JEST offers many privileges. Wide angle windshield and LED headlamps, grooved front grille and LED daytime running lamps create a stylish design detailed with sharp lines that leaves a lasting impression.





## Rear Design

Unique and award winning. e-JEST, which won a design award in Design Turkey, is created to bring a different atmosphere to the city in every aspect. e-JEST's view from the rear is so extraordinary that future designs will be influenced by it.

## Rims With An Aesthetic Appearance

It's in e-JEST's DNA to dominate eyes and feelings. The 16" aluminum alloy rims reflect its energetic soul with a flawless appearance on the road.

## Wide Angle View

With e-JEST, it is possible to look at life from a wide angle. The panoramic windshield designed to ensure a commanding view of the road, does not let anything escape from sight.



## LED Light Path

e-JEST exceeds your expectations with LED lighting that enhances visibility and safety, while giving an aesthetic appearance to the interior. For passengers, traveling with e-JEST is very pleasurable.

## JEST, ALREADY IN SERVICE

Jest has been meeting public transportation needs in many countries since 2013. Having proved itself with more than 7,700 units on the road, Jest continues to improve city life as being preferred every day in different locations of the world.



# EVERYTHING IS CONSIDERED FOR DRIVER'S COMFORT

Bringing a new dimension to cockpit; e-JEST makes driving more comfortable and convenient with its unique features including commanding seating position and broad visibility reducing driver fatigue.



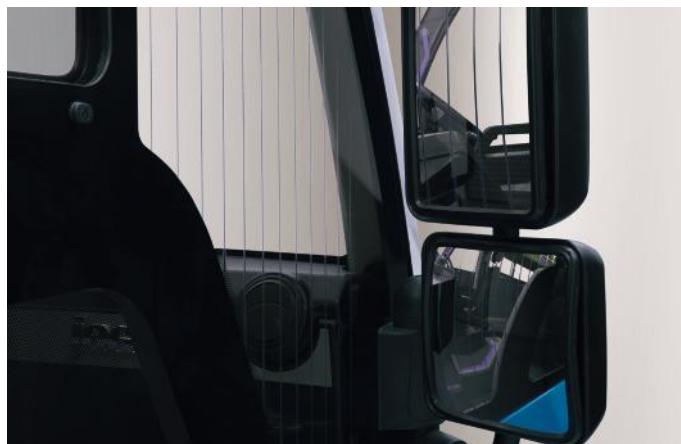
Tilttable & Telescopic Electrohydraulic Leather Steering Wheel



Adjustable Pneumatic Driver Seat With Arm Rest



Driver Air Conditioner



Electric Heated Mirrors & Sidewalk Mirrors



Heated Windows and Windshield



Electric Roof Hatch

# POSITIVE FUTURE

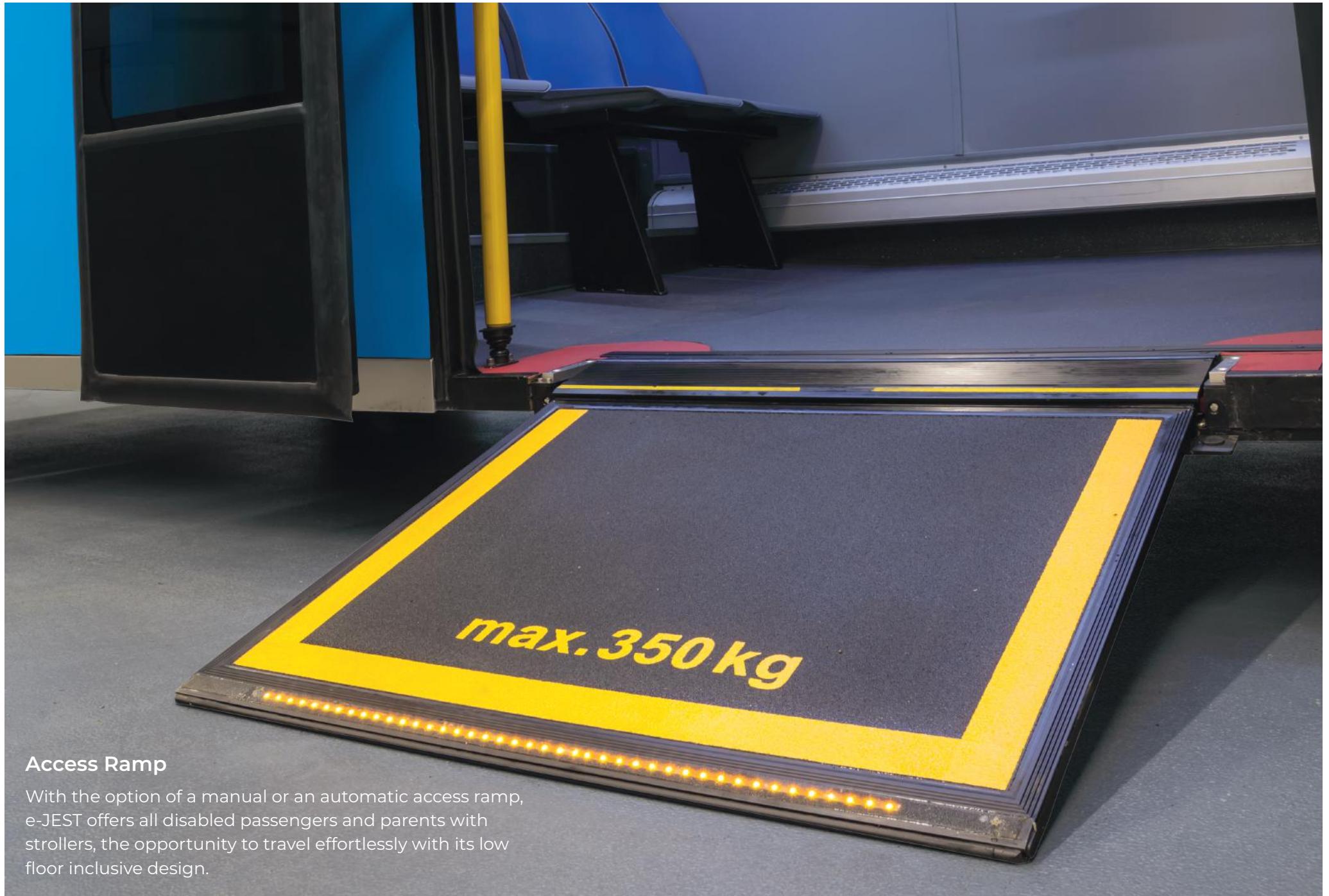
## Zero Emission

e-JEST is green, not only in color but in design. e-JEST keeps future generations healthier with 0% emissions.



**POSITIVE LIFE**





### Access Ramp

With the option of a manual or an automatic access ramp, e-JEST offers all disabled passengers and parents with strollers, the opportunity to travel effortlessly with its low floor inclusive design.

## Silent

With e-JEST, there is a different energy for every moment. Providing a quiet first class ride for its passengers and promising a more peaceful city life, e-JEST greatly reduces noise pollution both in and around e-JEST.

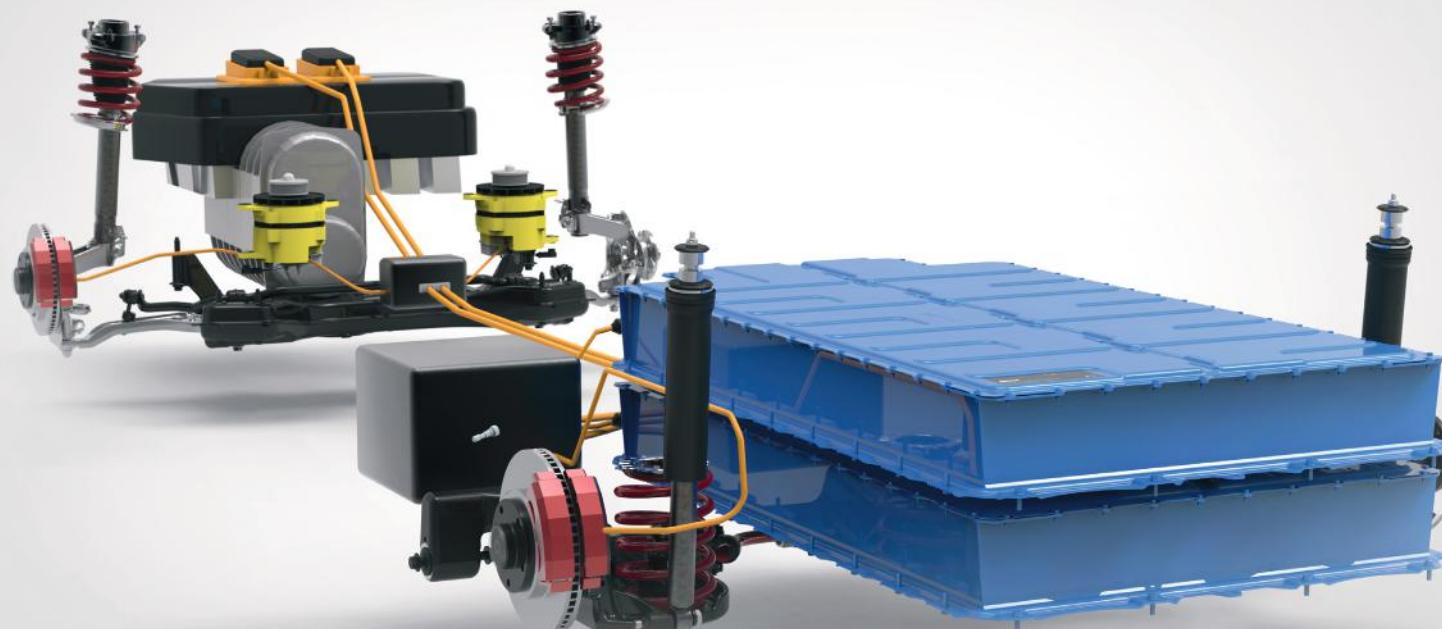


# POSITIVE PERFORMANCE

## BMW Battery Packs

BMW Li-Ion batteries and electric motor bring e-JEST to life with its safe proven real world experience.

Double Battery		
 	Capacity	88 kWh
 	Range	210 km



in cooperation with



## Quick and Easy Charging

e-JEST easily charges itself through the charging socket at the rear right side. e-JEST, which can be charged with two types of AC and DC, recharges battery for 4 hours at night and 65 minutes with quick charging during the day.

## Regenerative Power

During braking, e-JEST regenerates up to 25% of the kinetic energy and charges its batteries. This increases e-JEST's range.



Charging socket location might be different on vehicles.



## Comfortable Hill Start Even 25% Slope

Steep hills do not pose a challenge for e-JEST. e-JEST is always ready with its strong motor to conquer any city terrain. Its efficient BMW motor generates high torque and reassures the driver in demanding situations. With its hill holder function, on steep hills it is as easy as going on the straight road.

## Superior Maneuverability

Thanks to the short turning radius and superior climbing performance, e-JEST travels easily in narrow streets of old cities and climbs up ramps while fully loaded.

# POSITIVE TECHNOLOGY

## Full Digital Cluster

e-JEST is a good road companion. Because it shares everything and operates continuously to ease the driving. Its digital instrument cluster provides all vehicle information and warnings like charge status, remaining range and average consumption, for safe and easy operation. All you need to do is to enjoy a smooth ride.





## Multimedia Touchscreen

Everything is at the tip of your fingers thanks to the e-JEST's wide touchscreen, which is equipped with a radio/MP3 player, bluetooth and USB port for a more enjoyable journey. From this screen you can control air conditioning in the vehicle, select best routes with navigation, view rear camera and surveillance system for safe and easy driving experience.

## Wi-Fi and USB Ports

When you are in e-JEST, there is no distance between you and the world. You can always go online with e-JEST's Wi-Fi technology, and electronic devices can be charged through the USB ports in passenger area. e-JEST incorporates all the latest trends and high tech transportation needs for its passengers.

# POSITIVE SERVICE



# THE BEST CHOICE FOR MUNICIPAL AND PRIVATE CORPORATIONS



## Budget Friendly

Fossil fuel reserves are decreasing gradually. The decline triggers prices and reduces the profit margin of public transportation companies. This is where e-JEST comes in. Because e-JEST is electric powered, it does not pollute nature and reduces the total utility costs by using a more economical resource.

## Superior Durability

e-JEST is produced with technology gained from Karsan's 50+ years of manufacturing, including corrosion protection using cataphoresis techniques. In addition to being designed as a public transport vehicle, e-JEST will withstand years of daily use with its strong monocoque chassis and composite plastic and aluminum body panels. With these standard features, e-JEST will protect the user investment for the life of the vehicle.





## Maximum Capacity Utilization

e-JEST reduces operational costs during off peak hours where oversized empty buses has redundant capacity. Thus it offers the capacity as required by a city for these hours and brings an affordable approach to public transportation.



### Capacity Utilization



5,8 m Minibus | 22 Passanger Capacity

Peak Hours  
**%100**

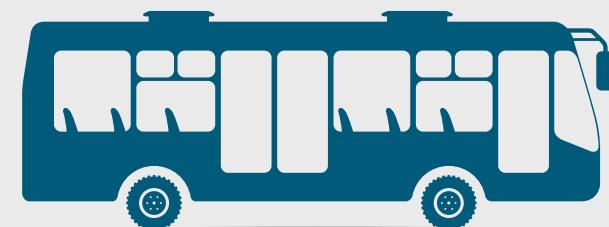
Off-Peak Hours  
**%100**



8 m Midibus | 58 Passanger Capacity

Peak Hours  
**%100**

Off-Peak Hours  
**%43**



12 m Bus | 105 Passanger Capacity

Peak Hours  
**%100**

Off-Peak Hours  
**%24**

# REMOTES THE CHALLENGES OF PUBLIC TRANSPORTATION



Ergonomic Cockpit



Digital Route Indicator



Semi Closed Driver Cabin



Sliding Passenger Door



Outward Swing Passenger Door

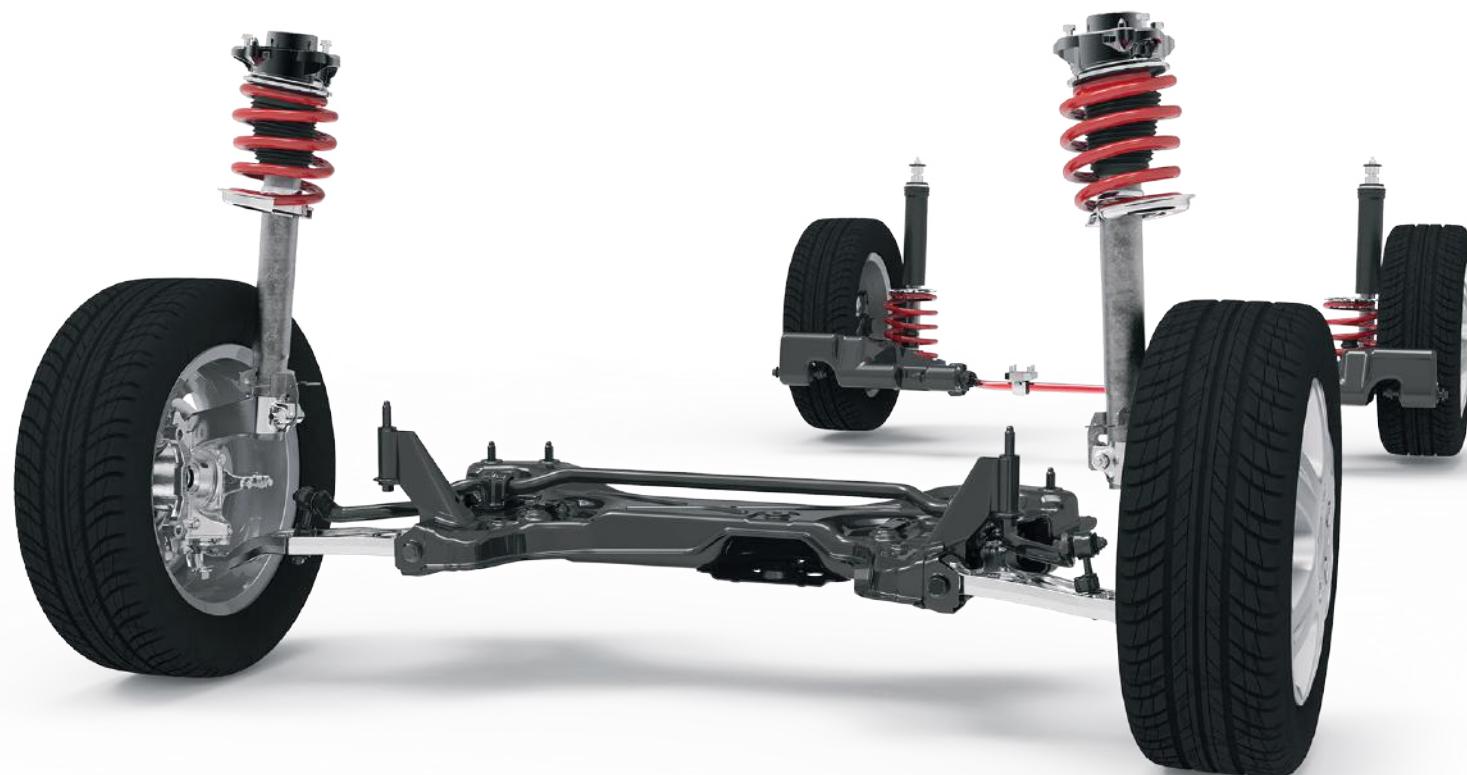


Validator Preparation

## OFFERS COMFORTABLE SERVICE TO CITIZENS

### Independent Suspension

Until e-JEST, passenger and operator comfort has not been expected in public transport. With 4-wheel independent suspension, e-JEST reduces road vibration and increases passenger comfort offering an automobile like comfort.



## Original Low Floor

Getting in e-JEST is as easy as walking on the straight road. The low floor allows passengers to get in by just a half step. Thanks to these advantages, the parents with stroller and the elderly get on and off e-JEST easily.







## Spacious Interior

In addition to adequate seat width and ample space between the seats, e-JEST offers spacious travel possibilities with its roomy interior design and panoramic windows, so the passengers just need to sit back and relax while viewing the cityscape.

## Seat Positioning

Passengers getting on the e-JEST can reach seats positioned on the low floor conveniently without an extra step. Moreover, with all the front-facing fixed seats, all passengers spend a pleasurable time in e-JEST.

## Passenger Capacity & Layout Alternatives



	Battery Capacity	Seated	Foldable	Wheelchair	Max. Standing*	Max. Total Passenger*
M2 Class A	88 kWh	9	-	-	10	19
		9	2	-	8	19
		9	-	1	6	16
		10	-	-	9	19
		10	2	-	7	19
		10	-	1	5	16
		9	-	-	13	22
		9	2	-	11	22
		9	-	1	9	19
		10	-	-	12	22
M3 Class A		10	2	-	10	22
		10	-	1	8	19

\*Values are examples. These values may change as +/- depending on the selected features.



# POSITIVE SAFETY

e-JEST offers technological active and passive safety systems in order to protect its valuable driver and passengers.

 **ESP** ELECTRONIC STABILITY PROGRAM

 **ABS** ANTI-LOCK BRAKING SYSTEM

 **DTC** DRAG TORQUE CONTROL

 **HSA** HILL START AID

 **EBD** ELECTRONIC BRAKEFORCE DISTRIBUTION

 **TCS** TRACTION CONTROL SYSTEM

 **BAS** BRAKE ASSIST SYSTEM



# CHANGING HABITS REQUIRES POSITIVE ENERGY

The mini-bus emerged as part of economic priorities 60 years ago in the friendly lands of Anatolia. It began to spread to modern cities in the 1980's and continues to grow as more cities increase their sustainable transportation network.

e-JEST is designed to change the outlook of public transportation in many parts of the world, it is designed to challenge public transport perceptions.

Upgrading public transportation, e-JEST develops a collective travel model in developing modern cities reducing the need for passenger cars. e-JEST accomplishes this both with its comfort and unique features, as well as its respect for nature.

e-JEST provides solutions to transportation issues with new generation technology, and becomes the source of happiness for communities.



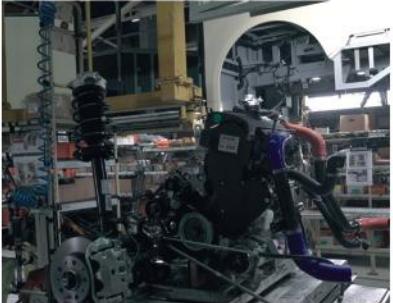
# KARSAN... FROM PAST TO PRESENT

1966



Karsan's adventure began in 1966 with 269 independent entrepreneurs.

1981



in the first 15 years, it continued to work as a part supplier for Original Equipment Manufacturers (OEMs).



From 1981 onwards, it began manufacturing J9 minibuses for Automobiles Peugeot. Later, it manufactured the first minivan in collaboration with Peugeot.

2006



in 2006, Karsan manufactured J9 Premier, which was completely its own product. in the following year, it established strategic alliances with Hyundai, Renault and Citroen .

2009



In line with its vision updated in 2009 as "Limitless Transportation Solutions", Karsan developed the V1 project in response to New York's Taxi of Tomorrow tender.

2024



Karsan has made a strong entry into the UK market with its European market-leading e-JEST model, taking a significant step forward in its vision to shape the future of mobility.

2023



Karsan has become the first European electric bus brand to enter the Japanese market with its new right-hand drive e-JEST model.

2022



Karsan started the production of the new generation e-ATA HYDROGEN, which produces its own electricity with renewable green hydrogen energy, starting a new era in the evolution of electric technology.



Karsan expands its product range with 10-12-18 meter buses and offers a full range of electric buses.



Karsan signed a 5-year contract with Oyak Renault for the production of Megane Sedan models.

2011



Starting to manufacture buses in 2011, Karsan manufactured the first big bus for Eome Municipality.

2013



In 2013, it re-developed its product portfolio with its own vehicles, namely Jest, Atak and Star.

2017



Jest+ was relaunched with an esthetic look and enhanced features.

2017



Karsan became one of the 6 finalists in the prototype design contest for a next generation delivery vehicle at US Postal Service and remained in the evaluation stage for five years and the tender was awarded to another bidder in February 2021.

2021



Karsan introduced Autonomous e-ATAK, the first serial-production level 4 bus in Europe and America.

2019



Karsan now manufactures e-ATAK for a sustainable future and preserve natural resources of historical cities.

2018



Karsan's first electric vehicle e-JEST, which is electrified by BMW i, was launched in Munich, in cooperation with BMW.



Karsan's factory, located in Hasanağa, Bursa, Turkey, having 90.000 m<sup>2</sup> of indoor space on a total area of 200.000 m<sup>2</sup>, has a capacity of manufacturing 65.000 vehicles/year. Today, in its modern facilities Karsan has been producing for more than 50 years for the world's leading brands and its own brand.

## TECHNICAL SPECIFICATIONS

### VEHICLE TYPE

Vehicle Category & Class	M2 / M3 Category & Class A
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### POWERTRAIN SYSTEM

Drive Type	Battery Electric Vehicle (BEV)
Engine Type	BMW Electric Traction Motor
Maximum Power (kW & hp)	135 & 184
Maximum Torque (Nm)	290
Transmission	Single Speed Automatic Transmission

### PERFORMANCE & ELECTRICAL SYSTEM

Top Speed (km/h)	70
Turning Radius (mm)	6.993
Maximum Gradeability (%)	25
Range (km) <sup>1</sup>	210
High Voltage Battery (Type - Capacity)	Li-ion - 88 kWh
Charging (Type - Power - Time)	
AC Type 2	22 kW - 4h <sup>2</sup>
DC Combo 2	80 kW - 65 min <sup>2</sup>

### BODY

Body Type	Monocoque Space Frame - Original Low Floor (270 mm Step Height)
Corrosion Resistance	Cataphoresis Coating & Under Coating

### SUSPENSION

Suspension System	4WIS-Four Wheel Independent Suspension System
Front Axle	Independent, MacPherson, Coil Springs & Telescopic Shock Absorber
Rear Axle	Trailing Arm, Helical Spring + Anti Roll Bar

### BRAKES

Front & Rear Brakes	Hydraulic & Disc
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### DIMENSIONS

Overall Length (mm)	5.845
Overall Width (mm)	2.055 (without mirrors)
Overall Height (mm)	2.850 (with A/C)
Interior Height (mm)	2.185 (maximum)
Front Overhang (mm)	1.200
Rear Overhang (mm)	895
Wheelbase (mm)	3.750
Gross Vehicle Weight (kg)	5.000 / 5.200

### TIRES

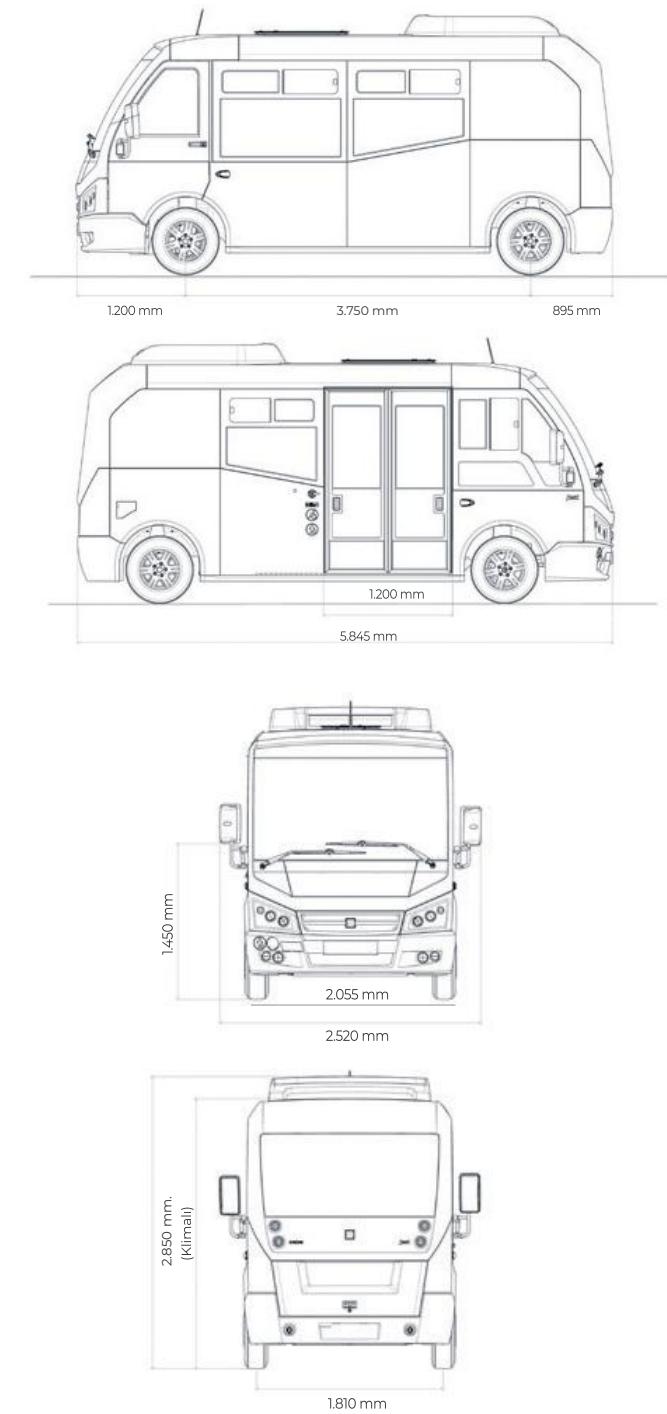
Tire Sizes	215 / 75 R 16C
Rim Sizes	6J x 16"

### PASSENGER CAPACITY ALTERNATIVES

Class A	Up to 22 Passengers (88kWh)
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<sup>1</sup>Based on NEDC testing standards with a base-level equipped vehicle. Range may vary depending on various factors, in particular: individual driving style, route characteristics, outside temperature, heating/air conditioning, seated & standing passenger weight.

<sup>2</sup>Charging up to 80% battery capacity in ideal conditions.



## EQUIPMENT FEATURES

### STYLE

#### Exterior Design

LED High Beam & Low Beam Lights	S
LED DRL (Day Time Running Lights)	S
Fog Lamps	S
LED 3rd Stop Lamp	O
Rear Clearance Lamps	O
16" Alloy Wheels	S
Tinted Side Glasses & Transom Windows	S
Flag Holder	O
Driver Door	O
Outward Swing Passenger Door	S
Sliding Passenger Door <sup>3</sup>	O
Manual Access Ramp	S
Electric Access Ramp <sup>3</sup>	O
Exterior Passenger Door Opening Button (Under Wiper)	O
Body Colored Bumpers	S

#### Passenger Compartment

Blue Handrails	S
Stainless Steel Handrails	O
2 Stop Buttons on Handrails	S

### TECHNOLOGY

#### Driver Compartment

Leather Steering Wheel	O
Full Digital Cluster	S
Electric Park Brake	S
Multimedia Touchscreen	S
Speed Limiter - 50 km/h (On-Off Available)	S
2 Mode Regeneration Module	S
Acceleration Limiter	S
Rear Parking Sensor	S
Telematic System	S

#### Camera Systems

Rear View & Driver & Service Door Camera & DVR (ITB)	O
Front & Inside & Rear View & Driver & Service Door Camera & DVR (ITB)	O

#### Video & Audio Systems

Radio + USB Port + AUX	O
4 Speakers	S
External Speaker	O
Goose Neck Microphone + Amplifier	O

#### Passenger Compartment

Stop Sign & Digital Clock	S
4 x USB on Handrails (Type A + Type C)	O
4 x USB on Sidewall (Type A + Type C)	O
Internet Access Infrastructure (Wi-Fi Router)	O

#### Line Systems

Smart Tachograph	S
Heightened Roof Destination Info Preparation with Digital Route Indicator <sup>4</sup>	O
Validator Preparation	O

#### COMFORT

Heating & Cooling System	
Roof Mounted Passenger A/C	S
Driver A/C	S
High Voltage Heater	S
Pre-Heater (Diesel) <sup>5</sup>	O

#### Mirrors & Windows

Manual Roof Hatch	S
Electric Roof Hatch	O
Electric & Heated Side Mirrors	S
Sidewalk Mirror on Right	S
Electric & Heated Driver Window	S
Heated Front Right Window	S
Heated Windscreen	S
Front Manual Sun Visor (Driver Only)	S

#### Interior Lights

Driver Area Illumination	S
Passenger Area LED Light Path	S

#### Driver Compartment

Tiltable & Telescopic Hydraulic Steering Wheel	S
Remote Controlled Central Locking System	S
8 Way Adjustable Pneumatic Driver Seat with Arm Rest (PILOT)	S

#### 8 Way Adjustable Pneumatic Driver Seat with Arm Rest (SEGE)

Driver Overhead Bin	S
Semi-Closed Driver Cabin (with Hand Luggage Area)	S

#### Fully Separated Driver Cabin

Plastic Type Passenger Seats	S
Plastic Type Passenger Seats with Fabric	O
Billboard <sup>6</sup>	O

#### Other

12V Battery	S
22 kW High Capacity Charger	S
CCS2 Charging Cable (3 Phases x 32A)	O
FMS Gateway	S

### SAFETY

GSR Package <sup>7</sup>	S
Cyber Security <sup>8</sup>	S
DDAW - Driver Drowsiness and Attention Warning	O
ESP - Electronic Stability Program	S
Hill Holder	S
ABS - Anti-Lock Braking System	S
EBD - Electronic Brake Force Distribution	S
HBA - Hydraulic Brake Assistant	S
VDC - Vehicle Dynamics Control	S
TCS - Traction Control System	S
DTC - Drag Torque Control	S
Battery Room Fire Detection System	S
Electric Motor Fire Detection System	S
Brake Pad Wear Sensor	S
Reverse Gear Buzzer	S

S = Standard

O = Option

<sup>3</sup>Can't be used with 88 kWh + Class A + 9 Fixed + 2 Foldable Layout.

<sup>4</sup>It can be provided also without indicator.

<sup>5</sup>Option includes Fire Suppression System for pre-heater area.

<sup>6</sup>Only with Fully Separated Driver Cabin.

<sup>7</sup>Includes: Emergency stop signal, Tyre pressure monitoring system, Blind spot information system, Reversing information system, Moving off information system, Alcohol Interlock Facilitation Installation, Intelligent speed assistance.

<sup>8</sup>Includes: ECE R.155: Protection of vehicle against cyberattacks; ECE R.156: Software update and software updates management system.

CONTACT ME

GET A QUOTE

