

THE KENT C IS ALSO FULL ELECTRIC

Otokar's new battery electric bus is a 12-meter low floor bus. The drivetrain technology is branded ZF and is powered by electric wheel hub motors

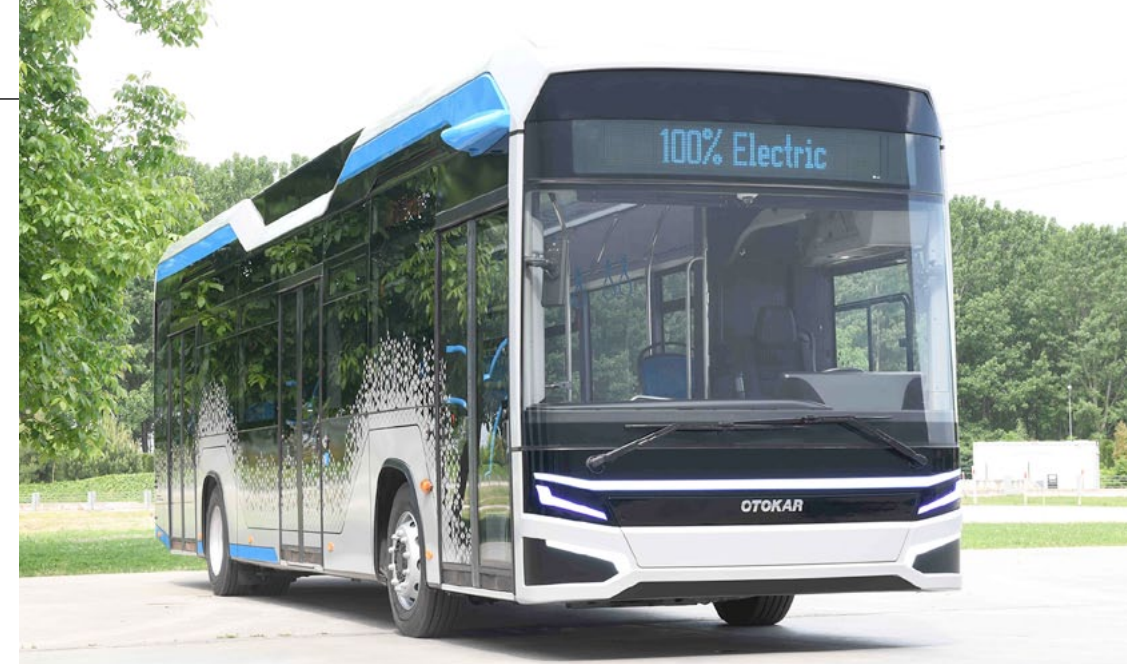
Otokar returns to the electric bus segment. It was already present in 2012 when, at Busworld Turkey, it launched the 9.3-meter low entry Doruk (Vectio for export) Electra. It was immediately adopted by the French Gepebus who presented it at the Transports Publics in Paris of the

same year with the name Oreos 4X equipped with electrical system of the parent company PVI (later acquired by Renault). It restarted by building buses on the low-floor buses Kent C series (10.8, 12 and 18 meters). The 12-meter e-Kent C model, displayed for the first time as a prototype at the UITP exhibition in Stockholm last year, is ready for the market.

Electric drivetrain is ensured by the ZF AxTrax AVE 130 portal rear axle which integrates two liquid-cooled three-phase asynchronous wheel hub motors, each with a maximum power of 125 kW. Efficiency is ensured by the Zf system with inverter and by the EST 54 electronic control unit. For energy storage it is fitted with four battery packs (28 modules) with lithium-ion polymer (NMC) which have a total capacity of 300 kWh and allow an operating range of 300 km, also thanks to the braking energy recovery system (15% -20%).

The batteries are charged at the depot via a Combo type 2 DC connection system with a power output of 90 kW. It takes up to four hours for a full charge.

The e-Kent C can carry up to 95 passengers and features an Eberspacher air conditioning system with 29 kW of cooling



20 kW electric Spheros.

The driver can read the driving information on the central display of the dashboard and acts on the vehicle's devices via a touchscreen keyboard, also to select the different driving modes (D, N, R).

Among the available safety devices there are the fire detection or automatic shutdown systems.

On the e-Kent C, the traditional external rear view mirrors are replaced by the more modern camera system.

capacity which can be integrated on request with a 20 kW heat pump. The water heating system is instead powered by the

E-KENT C	
Lenght mm	12,000
Width mm	2,540
Height mm	3,450
Wheelbase mm	5,900
Front overheng mm	2,700
Rear overheng mm	3,400
Turning circle mm	22,600
Seats max	95
Electric portal axle	ZF AVE 130
Power max	2x125 kW
Battery	NMC
Capacity	300 kWh
Charging system	Combo CCS2
Electric portal axle	90 kW - 3x400 V
Range km	300
Curb wheight kg	12,500
GvW kg	19,500