



SILEO E-BUS, A COMPLETE RANGE



A complete range of electric buses, with length ranging from 10.7 to 24.4 meters. These are the Sileos, manufactured in Turkey by the Bozankaya Group based in Salzgitter, Germany.

Battery electric bus is a sector where Bozankaya only appeared in 2014 with the launch of the 10.7-meter Sileo at the IAA in Hanover. With the construction of the production center in Ankara, Turkey, in 2015 (45,000 m² after expanded to 100,000 m²), started the process

of research and technological development. It then led to the modernization of Sileo electric product range, which were presented for the first time at Busworld Europe in 2017 with their modern design.

The battery-powered electric buses of the German-Turkish Bozankaya Group, specialized in systems for LPT on road & rail, range from 10.7 to 24.4 meters

For all models, electric drivetrain is ensured by the portal axle ZF AxTrax AVE 130 which integrates two liquid-cooled three-phase asynchronous wheel hub motors, each with a maximum power output of 125 kW.



It is mounted on the second axle on 10.7- and 12-meter vehicles and on the second and third axles on articulated vehicles. The load transfer is completed by the ZF RL 82 EC front axle with independent wheels and the ZF AVN 132 rear axle (fourth axle) on the Sileo S 25.

For energy storage it features lithium-iron-phosphate batteries (LiFePO₄) with single-level cell charging system (SLC) and active cell balancing. The total capacity ranges



from 225 kWh to 450 kWh depending on the models. The declared operating range is 280-300 km.

Battery charging is supplied by a standard system with 400 VAC of input power and 40/80 kW of power output or by a Combo

CCS2.0 interface with power output up to 150 kW. The charging time ranges from 3 to 10 hours depending on the capacity of the batteries installed on the vehicle.

Interior climate management can use a light air conditioning system or an electric air con-

ditioning system with heat pump. The Sileos feature a remote monitoring and diagnosis system to constantly monitor the operational data of the vehicle and detect any breakdowns and to schedule maintenance interventions.

In addition to the electric bus sector (including trolleybuses), the Bozankaya Group is active in the field of rail vehicles (trams and metros) for international markets through its production centers in Germany, Turkey and the United States.

SILEO	S 10	S 12	S 18	S 25
Lenght mm	10,752	12,220	18,300	24,380
Width mm	2,550	2,550	2,550	2,550
Height mm	3,213	3,213	3,213	3,213
Seats	33+57	39+51	55+81	71+139
Electric portal axle	ZF AVE 130	ZF AVE 130	ZF AVE 130	ZF AVE 130
Power max	2x125 kW	2x125 kW	2+2x125 kW	2+2x125 kW
Battery	LiFePO ₄	LiFePO ₄	LiFePO ₄	LiFePO ₄
Capacity	225 kWh	225 kWh	337 kWh	450 kWh
Charging system	Combo CCS2	Combo CCS2	Combo CCS2	Combo CCS2
Charging power	150 kW	150 kW	150 kW	150 kW
Range km	280	280	300	300
GVW kg	19,000	19,000	29,000	39,000

THIRTY YEARS OF HISTORY

Bozankaya was founded in 1989 in Germany as a research and development company. In 1997, Bozankaya GmbH started the production of coachwork for buses in Germany. In 2003 the company expanded to Turkey, where it became a powerful national brand and in 2005 it also started production in Sacramento, in the USA.

In 2010, through the TCV (Turkish Commercial Vehicles) it started the production of diesel and natural gas buses and in 2013 the first 25-meter trolleybuses and Sileo e-buses. The production of low-floor trams for the cities of Malatya and Kayseri also began in 2015 with the construction of the plant in Sincan, in the

suburbs of Ankara. A year later, the first fleet of electric buses was delivered to Izmir and started production for the Metro Green Line Project in Bangkok, completed in 2018 in conjunction with the expansion of the plant to 100,000 m², in order to improve the production of high-speed trains and metros.