

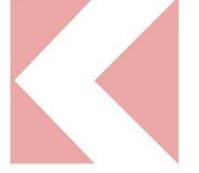
A First in History: A President Travels in a Level-4 Autonomous Electric Bus

Turkish President Erdoğan Becomes the First Passenger of Karsan Autonomous Atak Electric, the First Serial-Produced Autonomous Electric Bus in Europe and the USA!

Turkish President Recep Tayyip Erdoğan personally examined and tested “Autonomous Atak Electric”, developed co-jointly with ADASTEC led by Karsan. It is a 100% electrically powered and self-driving bus declared road-worthy for the highways and streets of Europe and the USA. A ceremonial event was held at the Presidential Complex to mark the occasion, attended by prominent figures including Mustafa Varank, the Minister of Industry and Technology, İnan Kır a , Kır a  Holding Board Chairman, Okan Ba , CEO of Karsan, Kamil G cl , Chairman of ADASTEC and Dr. Ali Ufuk Peker, CEO of ADASTEC. Briefed extensively about Karsan Autonomous Atak Electric, Europe’s and USA’s first Level-4 self-driving electric bus in its segment, President Erdoğan enjoyed a tour inside the self-driving bus at the Presidential Complex, accompanied by his entourage.

Developed jointly by Karsan, a powerhouse of the Turkish automotive industry which brings half a century’s experience to the table, and California-based tech company ADASTEC which specialises in autonomous driving software platform, Autonomous Atak Electric, a driverless bus declared road-worthy for the highways and streets of Europe and the USA, debuted at the event held at the Presidential Complex. At the event, Turkish President Recep Tayyip Erdoğan and the Minister of Industry and Technology Mustafa Varank, personally examined and tested Karsan Autonomous Atak Electric. Prominent figures including İnan Kır a , Kır a  Holding Board Chairman, Okan Ba , CEO of Karsan, Kamil G cl , Chairman of ADASTEC and Dr. Ali Ufuk Peker, CEO of ADASTEC were also present to mark the occasion. Following their inspections, President Erdoğan and his entourage took a special tour inside the Level-4 Autonomous Atak Electric at the Presidential Complex. Autonomous Atak Electric, jointly developed and prepared for serial production by Karsan and ADASTEC, stands out for being Europe’s and USA’s first Level-4 self-driving electric bus in its segment.





Speaking at the event, İnan Kır a , Chairman of the Board of Kır a  Holding said, “Having had the privilege to witness the growth journey of the Turkish automotive industry, I feel immensely excited to be here today. It is a great source of elation and delectation to have developed and Europe’s and USA’s first serial-produced self-driving bus. These great achievements are a testimony to how far the Turkish automotive industry has come. It makes us feel very proud to create pioneering work that is acknowledged all around the globe .”

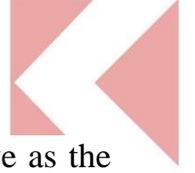
Okan BaŐ, CEO of Karsan, said the following in his speech, “Karsan has considerable experience working with electric vehicles. We have been exporting Jest Electric and Atak Electric, both 100% electrically powered vehicles, to Europe and the USA and other parts of the globe for many years now. Our electric vehicles have so far hit the 1 million km mileage milestone in 30 different cities of Europe and the USA. A massive know-how and experience lies behind this achievement. However, we are aware that the future is not just about electric vehicles; the next step forward is autonomous vehicle technologies, a major component of the automotive ecosystem. As a matter of fact, we look at our range of electric vehicles as a stepping stone to self-driving ones, which are our primary focus. While there are pilot projects in the field of driverless vehicles for small minibuses of 5 meters, there are no driverless regular-size buses in America and Europe. Today, we are pleased to launch Karsan Autonomous Atak Electric, a pioneering novelty for the 8-meter segment which can be enjoyed by drivers in the America and European markets.”

Dr. Ali Ufuk Peker, CEO of ADASTEC, continued “With our Level-4 autonomous driving software platform ‘flowride.ai’, we have aimed for a safe, comfortable and efficient driving experience. We deployed our high-tech solution in the autonomous redesign of the 8-meter electric bus Atak Electric to meet the demands of public transport in the future. We are proud to break new grounds in autonomous vehicles in our partnership with Karsan.”

Autonomous Atak Electric: A Unique Novelty in Europe and the USA with its Size and Cutting-Edge Technology

The first Level-4 autonomous bus in the 8-meter segment to be operated on the roads of Europe and the USA, Autonomous Atak Electric was modeled on Atak Electric, Karsan’s 100% electrically powered electric bus. Testing, simulated driving experiments and quality validation for Autonomous Atak Electric were completed in one year, making the bus ready for serial production. Karsan’s R&D team worked in collaboration with the California-based tech company ADASTEC for the development of the Autonomous Atak Electric. Autonomous Atak Electric, the first serial-produced vehicle from this





collaboration sold to Romania, will be delivered by the end of February to serve as the country's public transport vehicle. Level-4 Autonomous Atak Electric, developed jointly by Karsan and ADASTEC, was modeled on Atak Electric, powered by 220 kWh batteries developed by BMW that is capable of producing 2500 Nm torque with 230 kW engine power. Boasting a 300 km range, the 8.3 meter long Atak Electric can carry over 52 passengers making Autonomous Atak Electric a pioneer in its segment.

About Karsan:

Celebrating its 55th anniversary this year in the Turkish automotive industry, Karsan has been manufacturing at its modern facilities its own vehicles, as well as parts for the world's prominent brands in the commercial vehicles sector. The company has been engaged in commercial vehicle production since 1981, and its factory in Hasanağa in Bursa has the capacity to manufacture up to 19,870 vehicles a year on a single shift. The Hasanağa factory is a flexible installation that can manufacture all kinds of vehicles in the same facilities from passenger cars and heavy trucks to minivans and buses. It is located 30 km from the Bursa city center and has been established on an area of 200,000 sqm, 90,000 sqm of which is closed space.

Karsan has been the only independent multi-brand light commercial vehicles manufacturer in Turkey for more than 50 years and the next phase for the company, powered and enabled by its business partners and licensors, is to develop bespoke versions of new and existing vehicles in order to extend its presence to all segments of cargo and passenger transportation. Working to "develop innovative products and services from the idea to the market" and to cater to every market segment, Karsan primarily aims to strengthen its Main Manufacturer/OEM business line. Karsan manages its whole automotive value chain from R&D and manufacturing to marketing, sales, and after-sales activities.

Currently, the company manufactures the new H350 light commercial vehicles for Hyundai Motor Company (HMC), 10-12-18 m buses for Menarinibus, and its own Jest, Atak, and Star models. It also produces fully electric vehicles, its much-celebrated Jest Electric and Atak Electric line, in partnership with the world giant BMW. Besides vehicle manufacturing, Karsan also provides a range of industrial services in its factory in the Organized Industrial Zone.

About ADASTEC Corp:

ADASTEC is a tech company developing Level-4 autonomous driving software for commercial transport vehicles with its Headquarter in San Francisco and business office in Detroit and R&D office in İstanbul. The Autonomous Driving Software (flowride.ai) developed by ADASTEC enables driverless operation for full-size commercial vehicles operating in specific regions and routes. For more information, please visit <http://www.adastec.com/>

