

## **Karsan Autonomous e-ATAK, the First and Only Autonomous Vehicle on Finnish Roads, Goes on Duty!**

### **Karsan Autonomous e-ATAK to Offer the People of Tampere the Comfort of Driverless Transportation!**

### **Scandinavian Countries Are Preparing Their Public Transportation for the Future with Karsan!**

Playing a pioneering role in the electric and autonomous transformation of public transportation across the world, Karsan continues to break new ground in the sector. Autonomous e-ATAK, the world's first Level 4 driverless vehicle developed in cooperation with ADASTEC, has also become Finland's first autonomous bus. Autonomous e-ATAK, which started service on a 5.5-kilometer route between Haurala and Lampaala in the city of Tampere in the country, is planned to expand its route in the future. Karsan CEO Okan Bař said that Autonomous e-ATAK, developed in collaboration with its technology partner ADASTEC, is Finland's first self-driving bus carrying ticketed passengers on an open road, following the US and Norway, and added: "Although the 17-stop route includes challenging elements for autonomous vehicles such as traffic lights, intersections and pedestrian crossings, Autonomous e-ATAK can easily overcome them as a model that has proven its success worldwide. Our maximum speed will be 30 km/h on the first part of this route. But when the second route is added, our vehicle will reach 40 kilometers per hour. As Karsan, the high-tech mobility solutions we have developed with the vision of being 'One Step Ahead in the Future of Mobility', continue to be the first choice of the world's historic cities." Dr. Ali Peker, CEO of ADASTEC, said: "In this project, we had the opportunity to prove once again the superior performance and reliability of our autonomous driving software. With the experience we have gained in harsh weather conditions, we provide safe and comfortable journeys in all climatic conditions thanks to our advanced technology. This opening once again demonstrates our commitment to sustainable and innovative public transportation solutions. ", the company said in a statement.

Playing a pioneering role in the electric and autonomous transformation of public transportation in the world, Karsan continues to attract attention with its innovative models and superior service approach. Increasing its global presence day by day, Karsan stands out as the first choice of many countries, especially in Europe. In this context, the world's first, Autonomous e-ATAK, a Level 4 public transportation vehicle that can move on a planned route without a driver, has started service in Finland.

### **Finland's first autonomous public transportation vehicle!**

Recently, Karsan delivered an 8-meter Autonomous e-ATAK to Finland's Remoted company in cooperation with the Norwegian VY Group, one of the largest public transport authorities in the Nordic countries. Now, Karsan Autonomous e-ATAK has started passenger transportation service with autonomous driving on the public transportation line with the opening ceremony held in Tampere, Finland. The ceremony was attended by senior representatives from Karsan, Lempaala and Nysee, the public transportation operator of the Finnish state, as well as the Finnish press. Autonomous e-ATAK, which started service in the Tampere region of the country, will initially operate on a 5.5 km route between Haurala and Lempaala. In the following period, the route of the vehicle will be extended after the necessary preparations are completed. **Karsan CEO Okan Bař** said that Autonomous e-ATAK is Finland's full-size autonomous bus that carries ticketed passengers and is being used on public transportation routes on roads open to traffic, following the US and Norway. "Karsan Autonomous e-ATAK, which will serve in the city of Tampere, which is located between two lakes, will follow a 5.5-kilometer round-trip route. The 17-stop route will include traffic lights, intersections, pedestrian crossings and other challenging elements for autonomous vehicles, but Autonomous e-ATAK can easily overcome them as a model that has proven its success worldwide. Our maximum speed will be 30 km/h on the first part of this route, but when the second route is added, our vehicle will reach 40 kilometers per hour. " he said. Dr. Ali Peker, CEO of ADASTEC, said: "As ADASTEC, we had the opportunity to prove once again the superior performance and reliability of our autonomous driving software in this project. Our 5.5 kilometer route between Hauralantie and Lempäälä will expand to 10.5 kilometers in the future and will continue to serve more passengers. Thanks to our experience in extreme weather conditions and our advanced technology, we provide safe and comfortable journeys in all climatic conditions. This opening once again demonstrates our commitment to sustainable and innovative public transportation solutions. With our vision of shaping the city transportation of the future, we will continue to revolutionize public transportation systems."

Karsan Autonomous e-ATAK broke new ground in the world by carrying passengers on a 5-kilometer route for 1.5 years on the Michigan State University campus in the USA. In Stavanger, Norway, the Autonomous e-ATAK, which has been carrying ticketed passengers in open traffic since 2022, recently expanded its existing route by updating it with a route including a tunnel, and successfully passed another challenging test as the first autonomous vehicle to pass through a tunnel. Karsan has commissioned autonomous projects in seven different locations with the Autonomous e-ATAK, which has now started operating in Finland after the USA, Norway, France, Romania and Turkey. Karsan has achieved 75 thousand kilometers of autonomous driving experience and carried over 27 thousand passengers. Finally, Karsan, which has signed an airport autonomous project in Rotterdam, the Netherlands, will be the first brand in the world to carry out airport transfers with an autonomous vehicle with the two Autonomous e-ATAK buses it will deliver at the end of 2024.

### **We will grow in the Scandinavian market!**

Stating that there is only one bus used in public transportation in the Haurala region, **Okan Bař continued** as follows: "Autonomous e-ATAK will support this vehicle, so all people using public transportation in the region will have the opportunity to travel with our vehicle. We continue to transform the world's transportation infrastructure, especially in Europe, with our electric and autonomous vehicles. As Karsan, the high-tech mobility solutions we have developed with the vision of being 'One Step Ahead in the Future of Mobility' continue to be the first choice of the world's historic cities. In addition to our main target markets, we serve with our hi-tech models in a wide geography from Japan to the USA. We will continue to grow our share in Scandinavian markets and be the primary solution partner for public transportation problems with our autonomous and electric vehicles."

### **Karsan Autonomous e-ATAK: The Future of Driverless Transportation with High Technology!**

Karsan Autonomous e-ATAK features a large number of LiDAR sensors located in different parts of the vehicle. In addition, many innovative technologies such as advanced radar technology in the front, high-resolution image processing with RGB

cameras, and extra environmental safety thanks to thermal cameras are among the features of the Autonomous e-ATAK. Autonomous e-Atak, which can offer all these technologies as Level 4 Autonomous in cooperation with ADASTEC, can move on a planned route without a driver. The vehicle, which can reach a speed of 40 km/h in autonomous driving in all weather conditions, day or night, performs all operations performed by a bus driver, such as approaching the stops on the route, managing the boarding and alighting processes, providing dispatch and management at intersections and crossings and traffic lights, without a driver.

**About Karsan:**

With 58 years of experience in the Turkish automotive industry, Karsan produces for the world's leading automotive companies, including its own brand, in its state-of-the-art facilities in the commercial vehicle segment. Since 1981, Karsan has been producing commercial vehicles, and its factory in Hasanağa, Bursa has the capacity to produce 20,000 vehicles in a single shift every year. The Hasanağa Plant, which is structured with the flexibility to produce all kinds of vehicles from passenger cars to heavy trucks, minivans and buses, is located 30 km from Bursa city centre on a total area of 203 thousand square metres, 99 thousand square metres of which is covered.

Karsan is the only independent multi-brand vehicle manufacturer in the Turkish automotive industry. In line with its vision of being one step ahead in the future of mobility, Karsan aims to take part in all segments of passenger transport by developing new and derivatives of existing products with its business partners and licensors.

Continuing its activities to develop and launch "innovative products and services" in the public transport sector "from idea to market", Karsan aims to strengthen the main manufacturer/OEM business line in particular. Karsan manages the entire automotive value chain, from R&D to production, marketing, sales and after-sales activities. Karsan produces the environmentally friendly Jest and Atak models under its own brand. In 2018, Karsan e-JEST, Karsan e-ATAK in 2019, Autonomous e-ATAK in 2021, Karsan e-ATA family's 10m, 12m, 18m models in the same year and e-ATA HYDROGEN in 2022 were launched one after the other, making Karsan the first and only company in Europe with a fully electric product range from 6 meters to 18 meters. In addition, at the end of 2023, it became the first European brand to enter the Japanese market with its right-hand drive 6-meter e-JEST vehicle. [www.karsan.com](http://www.karsan.com)

**About ADASTEC:**

Founded in 2018, ADASTEC Corp is a US-based company providing automation solutions for large-scale buses and commercial vehicles. Our state-of-the-art Level 4 autonomous driving software platform, flowride.ai, has redefined industry standards with its superior capabilities in large-scale bus automation, making ADASTEC a pioneer in the field. Through an unwavering commitment to quality and innovation, ADASTEC has been awarded prestigious ISO certifications and is headquartered in East Lansing, Michigan, with a global presence in Turkey and the Netherlands.

With operations in many different countries around the world, ADASTEC Corp is taking firm steps towards making public transportation a more sustainable and efficient system through strong partnerships with leading companies in the industry. With in-depth expertise in the ex-factory automation of large-scale buses and commercial vehicles and their seamless integration into public transport systems, ADASTEC is committed to developing scalable, cost-effective solutions with high safety standards to meet the growing needs of modern cities. For more information, please visit [www.adastec.com](http://www.adastec.com)