



# AUTONOMOUS GSE: WILL SELF-DRIVING VEHICLES TAKE OVER AIRPORTS

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The aviation industry, including ground handling operations, has been increasingly focusing on enhancing efficiency through automation. The 35th IATA Ground Handling Conference emphasised the significance of digitalisation and automation in this sector, shedding light on both challenges and opportunities. Statistics from 2019 reveal that the Autonomous GSE market was valued at USD 0.2 billion, and it is anticipated to reach USD 1.5 billion by 2025, with a compound annual growth rate of 22%. Stakeholders are actively investing in the implementation of autonomous and automated GSE solutions, with IATA reporting that autonomous GSE trials are already underway in more than 15 countries.

Jo Alex Tanem, CEO of Nordic Dino Robotics, commented: “Various machines, including autonomous baggage transport vehicles, shuttles, and self-driving vehicles, are under development. However, complete global integration could take time. In the interim, semi-automatic GSE solutions offer a valuable alternative. We recognised the potential of GSE automation years

ago and have developed self-contained robots for automated aircraft washing and cleaning services. Even in the best-case scenario, fully Autonomous GSE could be years away, yet we need to improve the industry now. Given the challenges in recruiting skilled personnel and the growing emphasis on automated GSE solutions, aviation robots like the Nordic Dino are poised to gain substantial traction and popularity across the industry.”

While autonomous GSE is undoubtedly set to become a significant aspect of the ground handling industry in the foreseeable future, it might still be a while before the apron is bustling with self-driving GSE.

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