

WHITEPAPER

PRECISION VEHICLE LOGISTICS + AUTOCHARGIT MOBILE UTV

OPTIMIZING AUTOMOTIVE LOGISTICS



Addressing EV Transportation Challenges

A Case Study on AUTOChargit Mobile UTV

In the evolving landscape of automotive logistics, the need for efficient vehicle yard management and innovative solutions to address emerging challenges is paramount. This whitepaper explores the role of the AUTOChargit Mobile UTV by Dasher Lawless Automation and the advanced yard management solutions offered by AutoVentive, emphasizing their collective impact on the automotive supply chain.

Precision Vehicle Logistics identified the need for the AUTOChargit Mobile UTV during a collaboration meeting. EVs often arrive at dealerships with depleted batteries, rendering them immovable. The AUTOChargit UTV transports generator-powered Level II EVCS directly to these EVs, facilitating immediate charging and mobility.

Jason Wilson, VP of Precision Vehicle Logistics, emphasizes the strain on the finished vehicle logistics network due to immovable EVs. The AUTOChargit UTV offers a proactive solution, distinguishing Precision from competitors and enhancing overall logistics efficiency.

Benefits

- **Extended Charging Cables:** Up to 60 feet, allowing access to EVs in hard-to-reach areas.
- **Operational Efficiency:** Reduces downtime and logistical bottlenecks in vehicle yards.
- **Railcar Accessibility:** Improves accessibility for inoperable unit retrieval during the unloading process.

“It’s hard for people to comprehend how big the finished vehicle logistics network is.” - Jason Wilson, Precision Vehicle Logistics

Innovation in EV Charging with AUTOChargit Mobile UTV

Dasher Lawless Automation introduced the AUTOChargit mobile UTV equipped with twin Level 2 electric charging stations. This vehicle is designed to charge electric vehicles (EVs) that have depleted their batteries during transport, preventing the need for towing and ensuring seamless mobility.

Key Features

- **Twin Level 2 Electric Charging Stations:** Capable of charging EVs efficiently on-site.
- **Utility and Flexibility:** Can be deployed to various locations, including railcars, haulers, and surface lots.
- **Railcar Accessibility:** For inoperable unit retrieval during the unloading process.



The Importance of Extended Charging Capabilities

Industry Impact

Logistical Challenges

The finished vehicle logistics network is vast and complex, covering significant distances and involving numerous storage areas and facilities. This network often experiences strain due to vehicles that become immovable when their batteries deplete.

Wilson emphasizes the difficulty in moving these vehicles: “It’s hard for people to comprehend how big the finished vehicle logistics network is. That logistical network is put under strain due to the inability to move vehicles that are going dead. The reason they are going dead is because of the vast network, distances and time it takes for these vehicles to travel. They’re stuck in storage areas in facilities that are hard to get to.”

Solution: Extended Charging Cables

The AUTOChargit Mobile UTV addresses this challenge by offering extended charging capabilities. The ability to extend charging cables up to 60 feet is critical. This feature allows the UTV to reach vehicles in difficult-to-access locations, such as railcars, transport trucks, and remote storage areas.

Wilson further explains, “The most important thing is the ability to stretch the cords. The length of the charging cables is critical. When these vehicles end up stranded it’s not easy to get to. You can’t just drive up next to it and plug it in. The ability to extend these cables out to 60 ft allows us to get inop units into railcars and storage areas.”

AutoVentive's Yard Management Solutions

Technology Integration with AutoVentive

Precision Vehicle Logistics' sister company, AutoVentive, provides secure, cloud-based yard management solutions to automate and optimize critical processes in vehicle yards. These solutions address the intersection of all activities involved in moving a vehicle from the OEM production line to the dealer or final customer.

AutoVentive integrates advanced Yard Management System (YMS) technology to digitize operations, enabling real-time tracking and optimized resource allocation. The cloud-based platform ensures secure, scalable, and reliable operations, accessible from anywhere.

The automotive supply chain relies heavily on efficient vehicle yard management and innovative solutions to address emerging challenges. The AUTOChargit Mobile UTV and AutoVentive's advanced yard management solutions collectively enhance the efficiency and reliability of automotive logistics.

Core Functions

- **Storage:** Efficient management of vehicle storage.
- **Post-Production Modifications:** Streamlined processes for customizations and enhancements.
- **Maintenance and Repairs:** Routine checks and repairs to ensure vehicle quality.
- **Pre-Delivery Inspections:** Final inspections to verify vehicle readiness for delivery.
- **Railcar accessibility:** For inoperable unit retrieval during the unloading process.