



# ROCSYS

## WHITE PAPER

# Hands-Free Charging for Automated Electric Yard Trucks

[www.rocsys.com](http://www.rocsys.com)

# Automated Distribution Yard Vehicles Need Advanced Charging Solutions

Autonomous electric vehicles are transforming the global supply chain with many distribution yards exploring new solutions to improve safety conditions, reduce emissions, enhance efficiency, and streamline labor needs. But as these new vehicles roll out in yards around the world, there's a speedbump in the road that not everyone is seeing: who plugs in an electric vehicle if there's no one behind the wheel?

In this paper, we'll explore how self-charging solutions can help automated distribution yards with autonomous electric vehicle fleets meet the high demands of a modern global supply chain.

## If a Vehicle Can Drive Itself, Why Can't It Charge Itself Too?

Charging can be a major hurdle for autonomous electric vehicle fleets. Manually charging a single vehicle is time consuming and tedious work in potentially hazardous conditions that requires constant attention to maintain peak operational efficiency. And that's just for a single vehicle – imagine the challenges of maintaining an entire fleet. In a high demand global supply chain where a single dead battery can result in major disruptions in the yard, that's a risk not many fleet managers can afford to take.

Rocsys has developed the first [hands-free charging solution](#) for autonomous electric vehicles. Our platform integrates with any industry-standard charging equipment, allowing fleets to charge without the need for a human operator to plug them in, and giving distribution yards the ability to unlock greater efficiency, safety, and scalability.



# The Advantages of a Hands-Free Future

Rocsys hands-free charging solutions enhance the benefits of an automated distribution yard:



## ⚡ Truly Autonomous Operation

Hands-free charging and autonomous electric vehicles create a truly autonomous operation, removing the need for a human operator to perform a repetitive, mundane task and enabling fleet managers to refocus those resources elsewhere.

## ⚡ Improved Safety

No more manually charging vehicles in inclement weather, high traffic areas, low-light conditions, or other potentially hazardous environments.

## ⚡ Greater Efficiency

Hands-free charging ensures that autonomous electric vehicles are ready to roll when needed – no more waiting around for a human attendant to initiate or end the charging process. Plus, hand-free charging reduces the risk of damage to vehicles or charging equipment, and the possibility of a person forgetting to charge the vehicle – a persistent issue for large fleets!

## ⚡ Future Scalability:

Our system integrates with industry standard charging equipment and requires no costly and time-consuming retrofits to either vehicles or charging infrastructure, allowing fleet owners to easily scale their fleets.

## ⚡ Advanced Fleet Management

The Rocsys API integrates with existing fleet management systems, allowing, fleet managers to remotely view charging levels, manually start or stop the charging cycle, and access 24/7 customer service support.



# Contact Rocsys

Ready to see how Rocsys hands-free charging can benefit your automated distribution yard? Drop us a line at [info@rocsys.com](mailto:info@rocsys.com), or schedule a [meeting](#), and our team will be in touch shortly.

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