

# Quantron-as-a-Service

QUANTRON 360° Platform - Zero Emission Solutions

A key point that distinguishes QUANTRON from most manufacturers and providers on the market: with our Quantron-as-a-Service, we are aiming for a 360° Zero Emission product & solution ecosystem.

This means that QUANTRON is a solution provider offering an asset-light solution that covers all facets of the mobility value chain, such as the vehicle, service & maintenance, insurance, leasing, financing, infrastructure as well as green electricity and hydrogen.

Our future goal: providing comprehensive zero-emission transport solutions on a per-kilometre basis.

## QUANTRON ENERGY & POWER STATION

Sourcing and distribution of green energy and hydrogen  
H<sub>2</sub> refueling & electricity charging infrastructure network and equipment



## QUANTRON INSIDE

Fuel cell and battery electric commercial vehicles and components



## QUANTRON CUSTOMER SOLUTIONS

Physical and digital solutions for sales, aftersales, financing and 2<sup>nd</sup> life



For more information, visit our international website: [www.quantron.net](http://www.quantron.net)



# Empower the Future



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# QUANTRON FC8 Truck

- for long range heavy-duty operations



## POWERED BY HYDROGEN

## Empower the Future



## Introduction

Quantron US Inc., a subsidiary of the Quantron AG based in Germany, will bring range-leading hydrogen-powered trucks and an industry-first 360° solution platform to the US market.

Based in Auburn Hills, Michigan, Quantron US brings together a management team with an average experience of 35+ years in automotive and truck development with Quantron AG's and Haller Group's 140 years of commercial vehicle experience.

Our 360° solution - Quantron-as-a-Service - gives fleets access to a turnkey offer that includes FCEV trucks, hydrogen, hydrogen refueling stations, and a broad array of solutions. This is available on a cost-per-mile basis and designed to help customers easily and efficiently manage the complicated transition to hydrogen-powered, zero carbon fleets.



## Richard Haas, CEO Quantron US Inc, about Quantron US:

"The US heavy duty trucking industry is entering a new era of clean transportation, replacing the traditional diesel HD trucks that have dominated the industry for the past 100+ years.



As businesses and transport providers look to provide clean alternatives at TCO levels in line with today's well developed diesel ecosystem, several technologies are emerging. One of the most promising new technologies for long haul Class 8 trucking is the Hydrogen Fuel Cell Vehicle – which is expected to provide range, refueling times, and reliability that meets or exceeds today's diesel fleet.

We believe that BEV commercial vehicles are well positioned in adjacent segments that require less range and where charging times are more flexible. Here at Quantron US, we aim to provide a thoughtful combination of product, infrastructure and service solutions that address the real world needs of our customers."

### Technical Specification Truck

Motor power cont. / peak	400kW / 500 kW
Max Motor power	500 kW
Battery capacity	200 kWh*
Hydrogen capacity	100kg** @700bar
Max. range	750-850+ miles ***
Fuel Cell Power	224kW – 240 kW
Refueling time	10-15min****
GCWR	82,000 lbs
Payload Delta v. Diesel	less than 1000 lbs

\* Concept Demo is 110kWh. 200 kWh solution available 2Q 2023  
 \*\* Concept Demo is 80kg. The 100kg solution available 4Q 2023.  
 \*\*\* Fully loaded range @65mph is ~750 miles. 850+ miles of range considers typical California conditions. 65mph/90% loading.  
 \*\*\*\* Refueling time is currently being designed to SAE J2601-5, which considers 300g/s as the target.

The first models available will be Day Cab, however we are targeting to introduce a model with a sleeper cabin by the second half of 2023.

## The QUANTRON FC8 Truck

For the successful development of our FCEV Class 8 tractor, our highly experienced supply chain team surveyed the emerging technology supply base globally for compatible components and systems. We have identified suppliers and partners with the most comprehensive and detailed development programs, the most realistic outlook for best-in-class performance, and their associated industrialization plans. Our team of experienced automotive engineering experts, in conjunction with our carefully selected supply base, are working diligently to optimize the overall performance of this vehicle.

We will continue this process of partnering and optimizing as this nascent industry segment moves forward, with the latest and most robust strategies always at the forefront of our efforts. In this way, as the ecosystem for FCEV Class 8 vehicles evolves, QUANTRON will continue to be at the leading edge as this segment develops from first technology projects today to high volume industrial production over the next decade. Being flexible and remaining on the forefront of this journey is how QUANTRON will remain a key player in the segment over the long-term.

"With our maximum range miles the truck will be able to travel from New York to Atlanta without refueling."