

EN



QUANTRON



# Q-communal economy

Photo By: Nigel Crane

In cooperation with

**HS FAHRZEUGBAU**  
A TERBERG ROSROCA COMPANY

Empower the Future



QUANTRON

## Quantron AG

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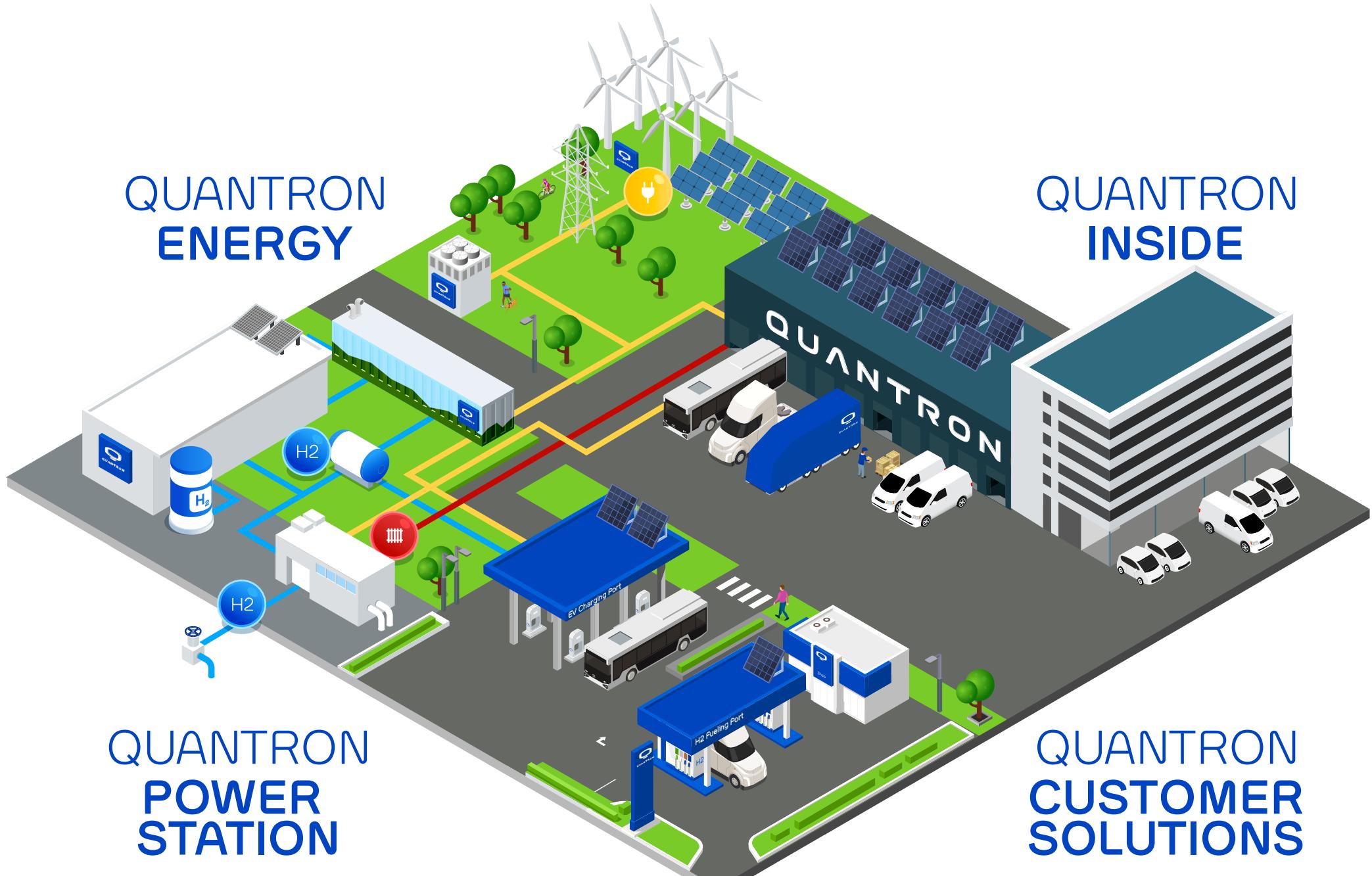
Dear customers,

Quantron AG offers you innovative e-mobility solutions for everyday practical use. We are thus making a sustainable contribution to the decarbonization of road traffic. We are already providing an answer today for all Logistics companies, craft businesses and passenger transport companies affected by driving bans and higher taxes, as well as for intra-logistics, airports and municipal operations with our e-waste vehicles. We help you reduce your dependence on fossil fuels and thus your CO2 footprint.

With our Q-Ecosystem, we also offer you an all-round service package - from providing advice on a vehicle tailored to meet your personal needs through to setting up the most suitable battery charging infrastructure.

Best regards

Andreas Haller  
Founder and Chairman of the Board of Quantron AG



# QUANTRON 360° Platform Solution – Quantron-as-a-Service

With QUANTRON-as-a-Service we are aiming for a 360° Zero Emission product & solution ecosystem. This means: QUANTRON is a solution provider offering an “asset-light” solution that encompasses all facets of the mobility value chain, such as the e-vehicle, service & maintenance, insurance, leasing, financing, infrastructure as well as green electricity and hydrogen.

The result: providing comprehensive zero-emission transport solutions on a per-kilometre basis.

This Q-Ecosystem consists of four central areas: QUANTRON ENERGY, QUANTRON INSIDE, QUANTRON CUSTOMER SOLUTIONS and QUANTRON POWER STATION.

## QUANTRON ENERGY

As a central player in a rapidly developing ecosystem, QUANTRON coordinates resources and partners to realise the production of green energy / green hydrogen and the associated supply to customers at competitive prices in the future as a platform.

## QUANTRON INSIDE

QUANTRON already supplies working, practical e-commercial vehicles with battery and hydrogen-electric drives based on the highly innovative QUANTRON INSIDE technology. The wide range of products includes new vehicles as well as the resource-saving electrification of used and existing vehicles with diesel engines (Q-retrofit).

## QUANTRON POWER STATION

In this area, we cover the topics of charging and hydrogen refuelling. Together with our partners, we are able to offer turnkey solutions for the development of the necessary green charging/fuelling infrastructure for BEVs and FCEVs (own and in cooperation), both at customer depots and along motorways.

## QUANTRON CUSTOMER SOLUTIONS

We offer comprehensive consulting services for the operation of your climate-neutral fleet. This includes, for example, topics such as the appropriate charging infrastructure, rental, financing and leasing options, as well as an all-encompassing aftersales service network with 700 locations. In addition, there are telematics and in-cloud solutions for remote diagnosis and fleet management.



Have you heard about the new normal?  
Zero Emission. Full Power. Better Future.



QHB 280



# The future starts now! E-mobility suitable for everyday use in the municipal segment

## Q-communal economy

Whether vans or trucks, vehicles are on the roads in daily use. Not only due to global developments, environmental awareness in our society is becoming ever greater, which means that the pressure on local authorities is also growing steadily.

The future CO2 targets can only be achieved if, among other things, there are major changes in the transport sector. The municipalities can and must act as pioneers here.

Regardless of whether new vehicles are purchased or existing vehicles are electrified (Q-repowering), the municipal sector is predestined for the use of e-vehicles. Municipal vehicles are only used at certain times or tasks in smaller radii and can be recharged afterwards.

As e-vehicles, they move quietly and emission-free through communities and cities. This not only improves the living conditions of local residents, but also the working conditions of drivers and employees.

Diesel vehicles are not particularly suitable for short trips with frequent stops. They often do not reach the necessary temperature to comply with the emissions standard. This is particularly bad for local residents and visitors to parks, playgrounds and schools. In addition, this method of use not only increases fuel consumption, but also wear and tear.

In comparison, e-mobility clearly scores here: sufficient power through maximum torque from a standstill, cost-efficiently dimensioned battery capacities, and lower maintenance and operating costs.

QUANTRON's vision is to help create a greener world. With zero-emission commercial vehicles, we are making our contribution to reducing CO2 emissions and thus achieving global climate targets. We want to change the future sustainably.

QUANTRON combines over 140 years of commercial vehicle experience as a high-tech spin-off of the family-owned company Haller GmbH & Co. KG complete with innovative state-of-the-art technology. This approach reflects our brand values: Reliable, Energetic & Brave.



# The QUANTRON QHB 27-200/280

Our heavy duty 6x2-4 e-chassis in configuration as a waste collection vehicle - highest efficiency and low noise level without emissions. The QHB 27-280 (based on the Mercedes-Benz Econic) has been on Germany's roads since mid-2020 and has been successfully tested in over 30 waste disposal companies.

For example, the waste collection vehicle was used in normal operation for more than two weeks in the waste disposal operation of the city of Ulm: around 900 waste garbage cans per day on an average route of 80 km. The actual range in 9-hour collection operation is well over 130 km without recharging the battery, and the range without taking into account the body energy requirement is up to 200 km with a battery capacity of 280 kWh.

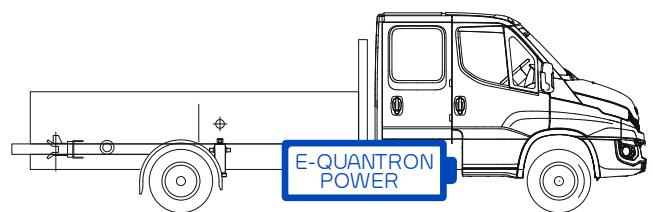
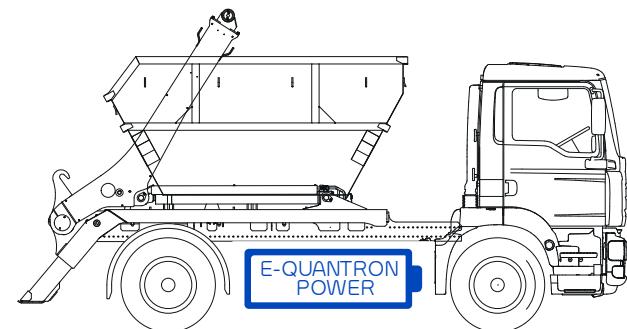
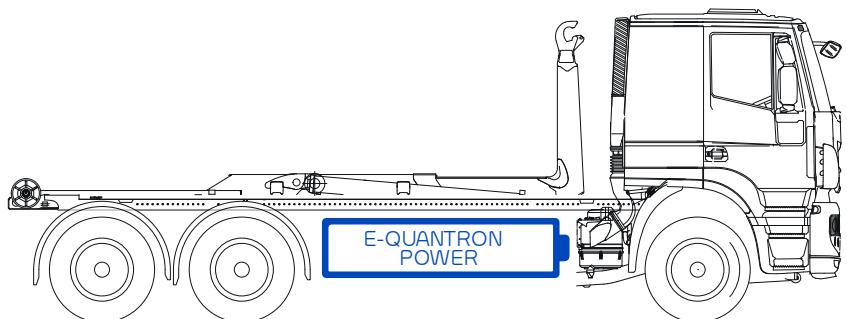
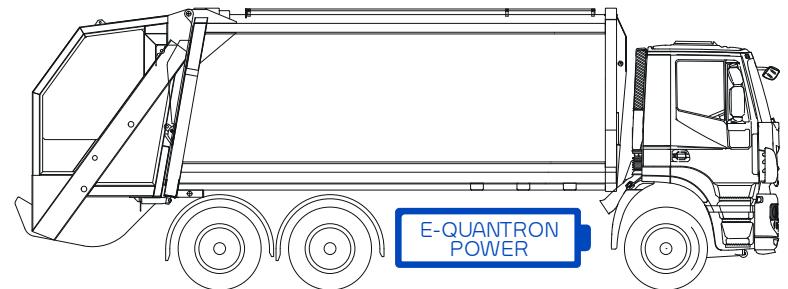
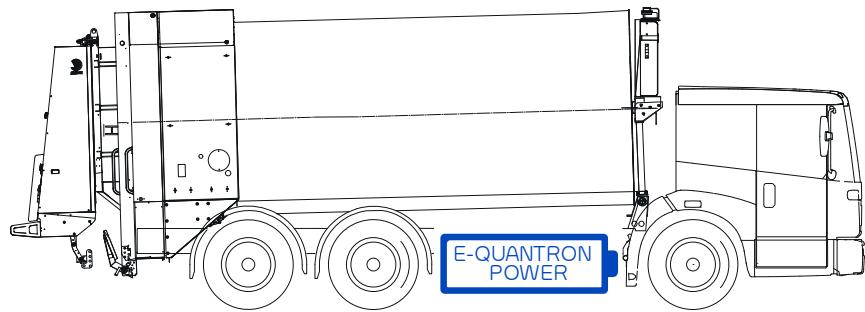
The emission-free and quiet vehicle is not only a benefit for local residents. The elimination of exhaust gases and engine noise also significantly improves the working conditions of the chargers and drivers at the vehicle.

## Facts and advantages of the QUANTRON conversion based on the Econic

- Range up to 200 km depending on battery capacity without taking into account body energy requirements
- Direct drive, no transmission required
- e-PTO 50 kW output power for the body function
- Headroom in lowentry cab with high roof
- 2 wheelbases available
- 3 co-drivers possible in the cab
- Folding door on the passenger side for fast and trouble-free and trouble-free getting in and out of the cab
- High torque available already at start-up
- HV charger for 44 kW charging power installed on board
- CCS II charging port for 150 kW power can be ordered as an option

Technical Data

Max Motor power	350 kW
Range	>200 km
Battery capacity	200 kWh or 280 kWh
Charging time	4,6-6,4h (AC, 22/44 kW) or 1,5-2h (opt. DC, 150 kW)
Gross vehicle weight	27.000 kg
Permissible axle load	FA 8t / DA 11,5t / LA 9t
Payload	11.080 kg or 9.938 kg
Curb weight chassis w body	15.920 kg or 17.062 kg
Wheelbase (Min.-Max.)	3.450/1350 or 3.900/1350 mm



⚡ 2x16 – 550 kW      🔋 49,5 – 630 kWh  
📍 bis zu 500 km      🚛 < 3,49 t - 44 t

## Drive

QUANTRON offers the optimum drive profile for a wide variety of municipal vehicles: for disposal with 3-axle chassis, roll-off container and skip loader transport as well as suitable solutions for vans or light trucks with double cab and box body. Efficient and economical: the emission-free drive is individually adapted to the transport task, use of recuperation as braking energy and elimination of the previously usual time-consuming maintenance work.

## Chassis

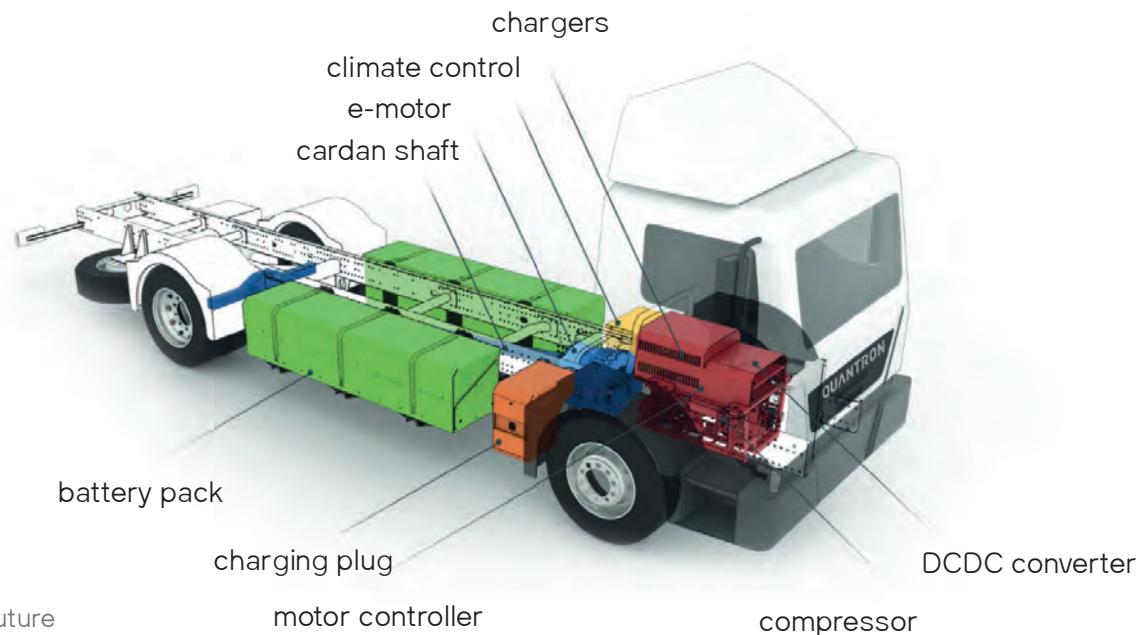
Together with you, QUANTRON will configure the chassis that best suits your requirements, incorporating your fleet expertise. The requirements for payload, driving performance, range, body configuration and maneuverability are taken into account individually.

## Application / driving experience

The QUANTRON trucks are quiet in operation and absolutely emission-free. The drivers, fleet employees and citizens are less burdened by noise and air pollution. The good torque development of the electric drive and the simple operation of the e-truck support the driver optimally. Useful additional equipment, such as the GPS tracking, enables a controlled and uncomplicated operation of the electric vehicle fleet.

## Battery

Your QUANTRON truck is equipped with modular battery packs. By analyzing your specific mission profile, we configure the ideal battery capacity for your application. This results in the required ranges with optimal loading times and necessary payload.



# Olympus rear loader waste collection body

The Olympus has proven itself over many years of use by private and municipal waste disposal companies. The optimal configuration from a variety of options always ensures the right Olympus for the intended use.

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1 Ejector plate perfectly adapted to the body



4 Rear part cylinder on the roof



5 Bio-sealing



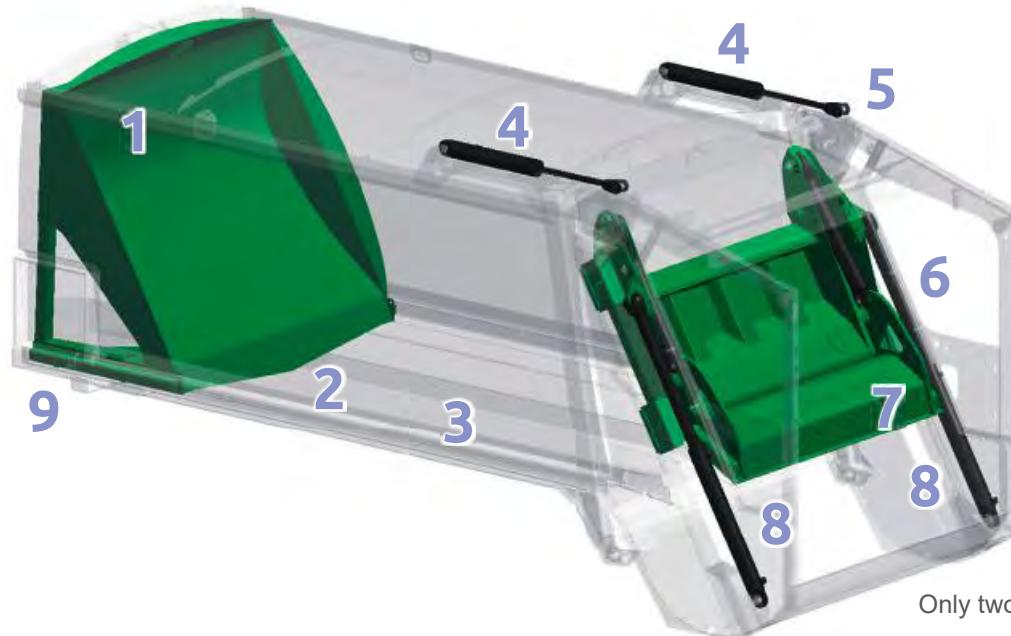
6 Minimum overhang



7 Press with high clearing capacity



8 External cylinders



Only two lubrication points



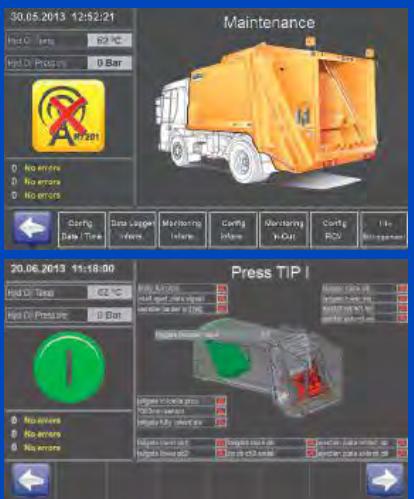
2 Liquid tank in the chassis floor



9 Central mounting electronics inside a waterproof box.  
Easy access.

# Advantages of the Olympus waste collection bodies:

- Model versatility: available in two widths, two heights and three load pan sizes. Wide range of functions and applications possible.
- For usage with commercially available fills.
- Configurable HMI display: most functions can be operated quickly and intuitively from inside the cabin.
- Workplace safety: automatic body and tail section locks, side maintenance door, weight-monitored running boards, ergonomic design.
- Economical: low maintenance costs.
- Ecological: low noise level, certified at 101 dB.
- Options: Wide range of accessories and options allow customization according to the customer's needs.



## Configurable HMI display

All Olympus waste collection bodies are equipped with a multifunctional operating monitor, which is installed in the driver's cabin. This enables the full intuitive operation of different functions:

- Tailgate, press plate, discharge plate and fill are operated from the driver's cabin.
- Integration of different weighing systems in the same display, with real-time information.
- Auto-diagnostic system with information on current operating status.
- Warning signals in case of malfunctions. Fault memory: the system stores up to 2000 warning signals to enable a diagnostic report.



# OLYMPUS Models

## OLYMPUS N (narrow)

This model series of waste collection bodies has been specially developed for narrow collection areas with optimized dimensions and capacities of 10 m<sup>3</sup>- to 19 m<sup>3</sup>.

## OLYMPUS W (wide)

This model series of waste collection bodies has been specially developed for urban and rural environments and offers capacities from 13 m<sup>3</sup> to 27 m<sup>3</sup>. The result is the Olympus W+ Version with the same features as the Olympus W, but with a higher structure to represent even more volume. This version enables approx. 10 % more loading capacity for the 3-axle chassis.

## OLYMPUS HCT (large rear section)

This model series of waste collection bodies for domestic and semi-industrial waste disposal has been specifically developed for collection by means of „satellite“ units and underground bins. It is equipped with an enlarged loading trough, which allows a higher loading volume. The HCT-model is also available as an „industrial“ version with an adapted loading trough and an transfer fill for transfer containers according to DIN 30737 up to 5 m<sup>3</sup>.

# Special fill of the OLYMPUS-series

## Multifunctional-fill „UPC“

Our multifunctional fill for 80-240 ltr.-MGB and 1100 ltr.containers was specifically developed for the collection of household waste. Vertical movement with electro-hydraulic speed control for the lifting and depositing process.

## Industrial waste fill

Our industrial waste fill, for containers with hook or chain pick-up, equipped with electro-hydraulic operation. Compatible with our multi-functional fill for 80-240 ltr MGB and 1100 ltr containers. Designed for mixed collection of commercial waste in large-capacity containers up to 5 m<sup>3</sup> and household waste in 80-240 ltr. MGB and 1100 ltr containers.

All other commercially available fillers that comply with DIN EN 1501-5 can also be mounted on the Olympus.

# Options for the OLYMPUS

## Ecolympus

equipped with a variable displacement pump, which always only provides the amount of oil currently required. This protects the environment and the budget.

## Rear section for underground containers:

enables the emptying of the underground containers or igloo containers by means of a loading crane. The crane can be installed on the collection body or between the collection body and the driver's cabin.

## Emptying of „Satellites“:

„satellite“-vehicles can directly empty into the Olympus.

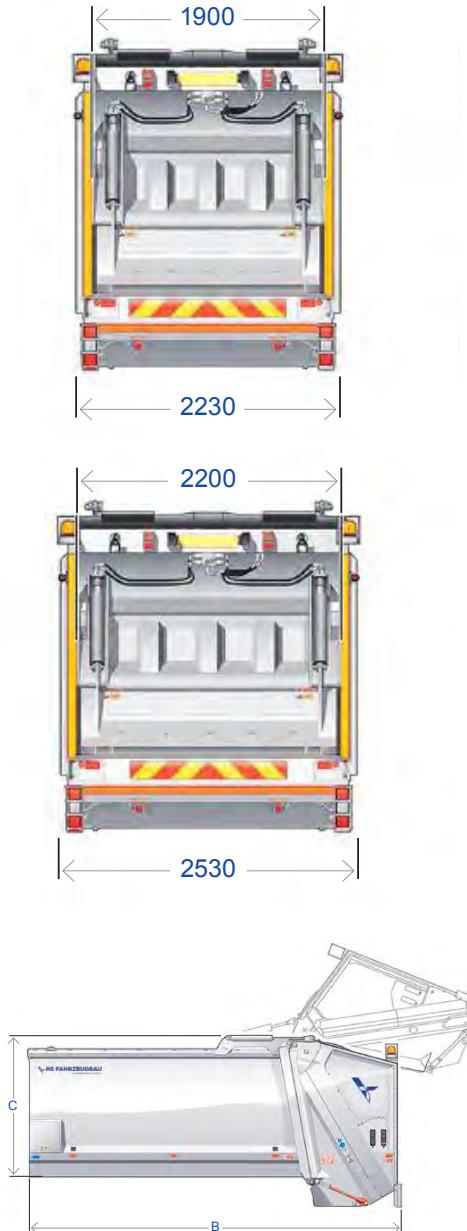
## „Green mode“:

This option enables to shut down the counter pressure of the discharge shield, f. e. during the collection of cardboard or pre-compressed waste.

## Cleaning equipment

for the cleaning of containers or footpaths with high-pressure cleaners (15 l/min and 120 kg/cm<sup>2</sup>).

In addition to the options mentioned above are the waste collection bodies of the Olympus-series characterised by the versatility for innovative solutions. For more information, please contact your HS Fahrzeugbau representative.



	Capacity (m³)	Wheelbases (mm)	A Width (mm)	B Length (mm)	C Height (*) (mm)	Loading trough (**) (m³)	GVM	Icons: Garbage bin, Container, Tank, Box, Trough
<b>OLYMPUS N</b>								
OL10N	10,3	3100-3200	2230	4725	2490	1,2 / 2,8	16	(1) (1) (1) - - -
OL11N	11,3	3400-3500		4975			16	(1) (1) (1) - - -
OL12N	12,5	3700-3800		5275			16	(1) (1) (1) - - -
OL14N	13,6	3800-3900		5525			18-19	(1) (1) (1) - - -
OL16N	16,0	4500-4600		6175			18-19	(1) (1) (1) - - -
OL19N	18,6	3800-4000		6775			26	(1) (1) (1) - - -
<b>OLYMPUS W/W+</b>								
OL13W	13,0/-	3400-3500	2530	4975	2490/2700	1,3 / 3,2	16	(1) (1) (1) - - -
OL14W	13,7/-	3600-3700		5125			16	(1) (1) (1) - - -
OL16W	15,6/-	3800-3900		5525			18-19	(1) (1) (1) - - -
OL17W	16,6/-	4100-4200		5725			18-19	(1) (1) (1) - - -
OL19W	18,6/20,3	3300-3400		6175			26	(1) (1) (1) - - -
OL20W	20,0/21,8	3500-3600		6475			26	(1) (1) (1) - - -
OL21W	21,4/23,4	3800-4000		6775			26	(1) (1) (1) - - -
OL23W	23,2/25,4	4100-4200		7175			26	(1) (1) (1) - - -
OL25W	25,6/28,0	4500-4600		7675			26	(1) (1) (1) - - -
OL27W	26,5/29,0	Upon request		7875			32	(1) (1) (1) - - -
<b>OLYMPUS HCT</b>								
OL13HCT	13,4	3400-3500	2530	5275	2490	1,5 / 3,5	16	(1) (1) (1) - - -
OL14HCT	16	3600-3700		5425			16	(1) (1) (1) - - -
OL16HCT	15,9	3800-3900		5825			18-19	(1) (1) (1) - - -
OL17HCT	16,9	4100-4200		6025			18-19	(1) (1) (1) (4) - -
OL19HCT	19	3300-3400		6475			26	(1) (1) (1) (4) - -
OL20HCT	20,3	3500-3600		6775			26	(1) (2) (1) (2) (1) (2) (4) (3) (3)
OL21HCT	21,7	3800-4000		7075			26	(1) (2) (1) (2) (1) (2) (4) (3) (3)
OL23HCT	23,6	4100-4200		7475			26	(1) (2) (1) (2) (1) (2) - (3) (3)
OL25HCT	25,9	4500-4600		7975			26	(1) (2) (1) (2) (1) (2) - (3) (3)
OL27HCT	26,9	Upon request		8175			32	(1) (2) (1) (2) (1) (2) - (3) (3)

(\*) Height from top edge of chassis. (\*\*) Total loading trough capacity/ loading through capacity with raised loading edge. (1) UPC or other manufacturer's fill. (2) „Industrial“ fill, domestic waste fill. (3) „Industrial“ fill, commercial waste fill. (4) Emptying via loading crane. The Olympus waste collection body is compatible with all types of waste fills that comply with EN 1501-5.



## Our way to a better future

### QUANTRON Infrastructure

Regardless whether it is a charging station or wallbox, a conventional charging unit or fast charger, we support you with the necessary infrastructure according to your requirements. For easy handling, modern payment systems are integrated into our Q-Charging models.

### New, stock or used

We focus on your requirements: Quantron AG supplies zero-emission new vehicles, electrifies your existing vehicles or converts used vehicles to environmentally-friendly electric drive versions for you.

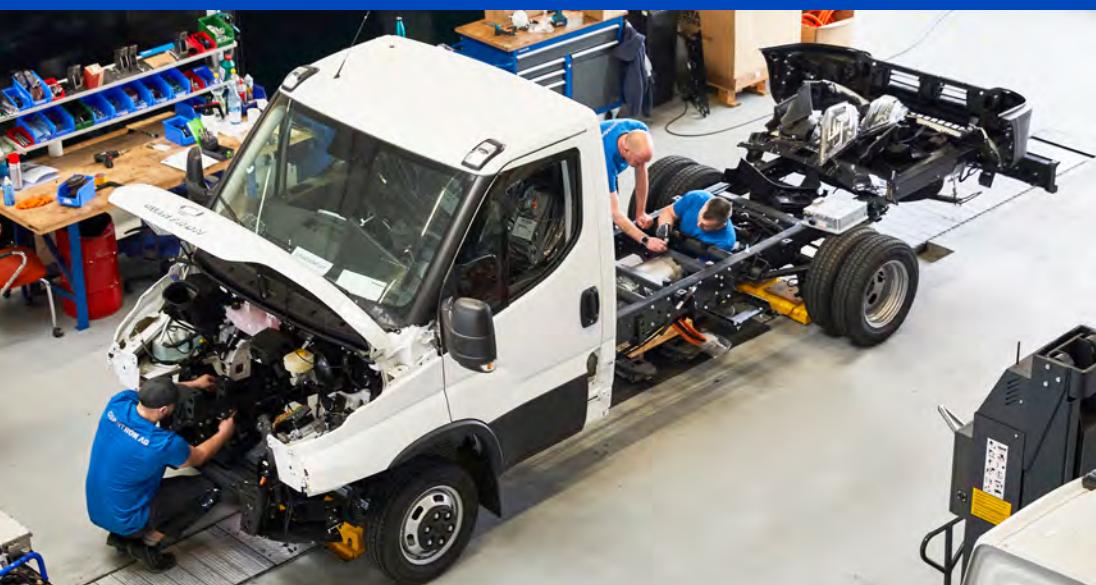
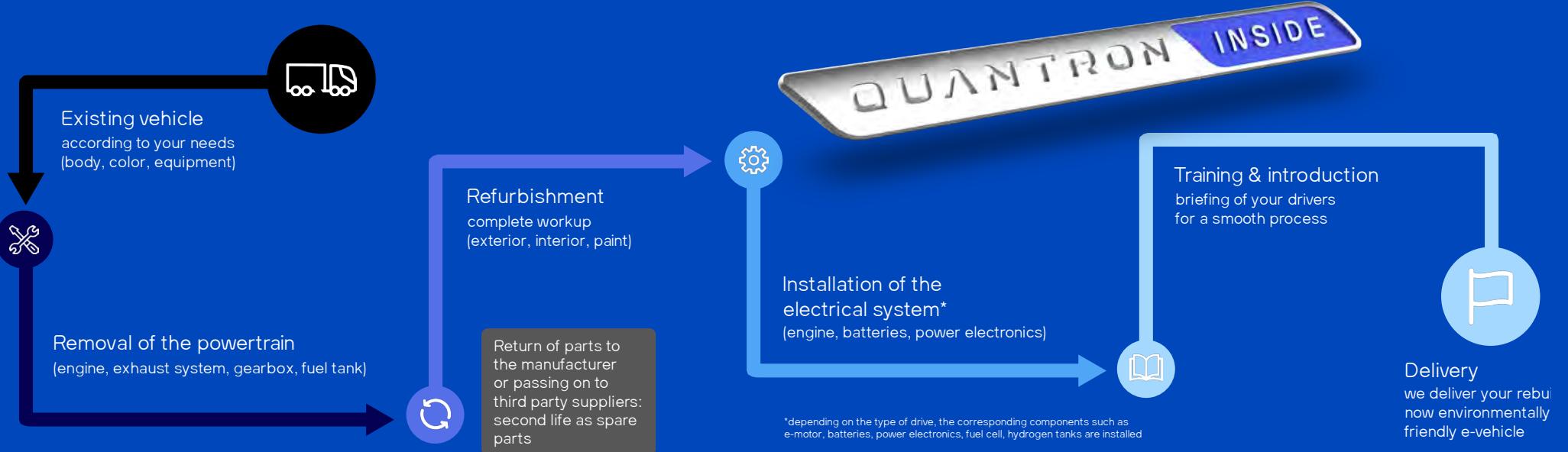
### Think Green – Second Life Vehicle

We give used commercial vehicles and buses a second, environmentally-friendly life - great potential for climate protection and resource management.

### Second Life Battery

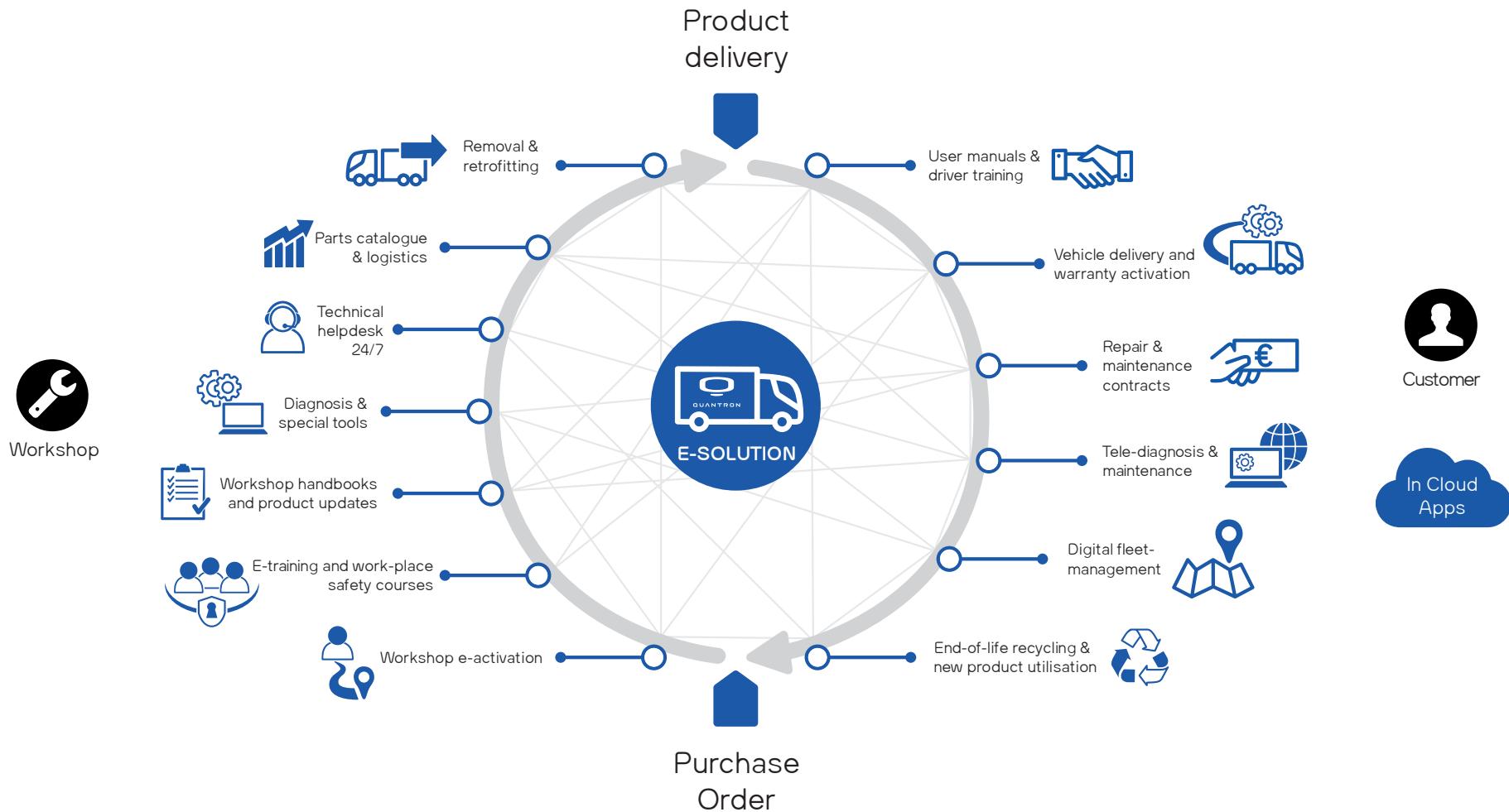
After 6-8 years, the used batteries enter their second life in the stationary area (e.g. in connection with photovoltaics as energy storage devices, for charging e-vehicles and absorbing peak currents).

# The QUANTRON sustainability concept – Q-Retrofit



# The QUANTRON CUSTOMER SOLUTIONS

## Aftersales service circle



Combining product, organizational, digital and commercial know-how, QUANTRON-Aftersales offers a full package of e-mobility services to both, workshops and customers.



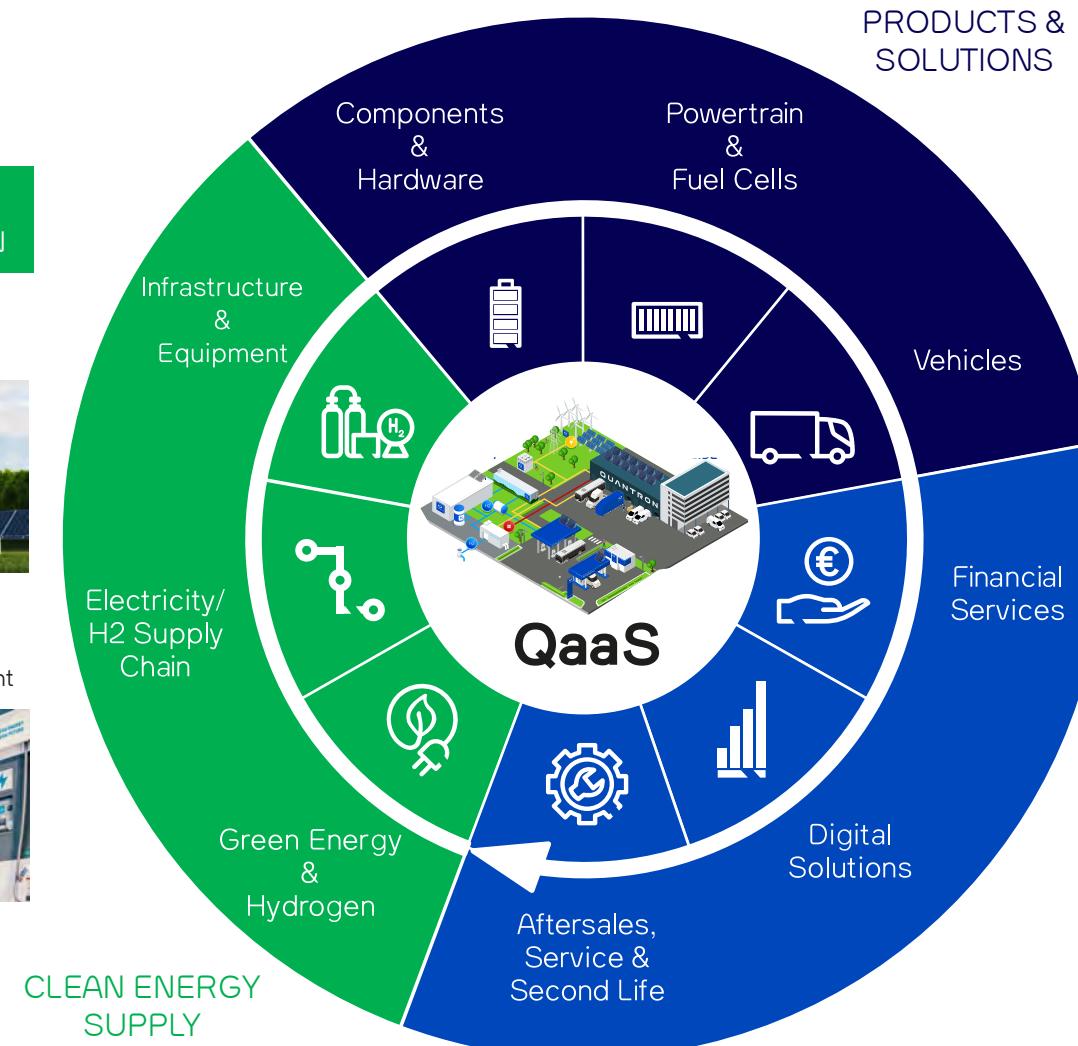
# QUANTRON 360° Platform – Quantron-as-a-Service Zero Emission Solutions

## QUANTRON ENERGY & POWER STATION

Production and distribution of green energy and hydrogen



H<sub>2</sub> refilling & electricity charging infrastructure network and equipment



## QUANTRON INSIDE

Fuel cell and battery electric commercial vehicles and components

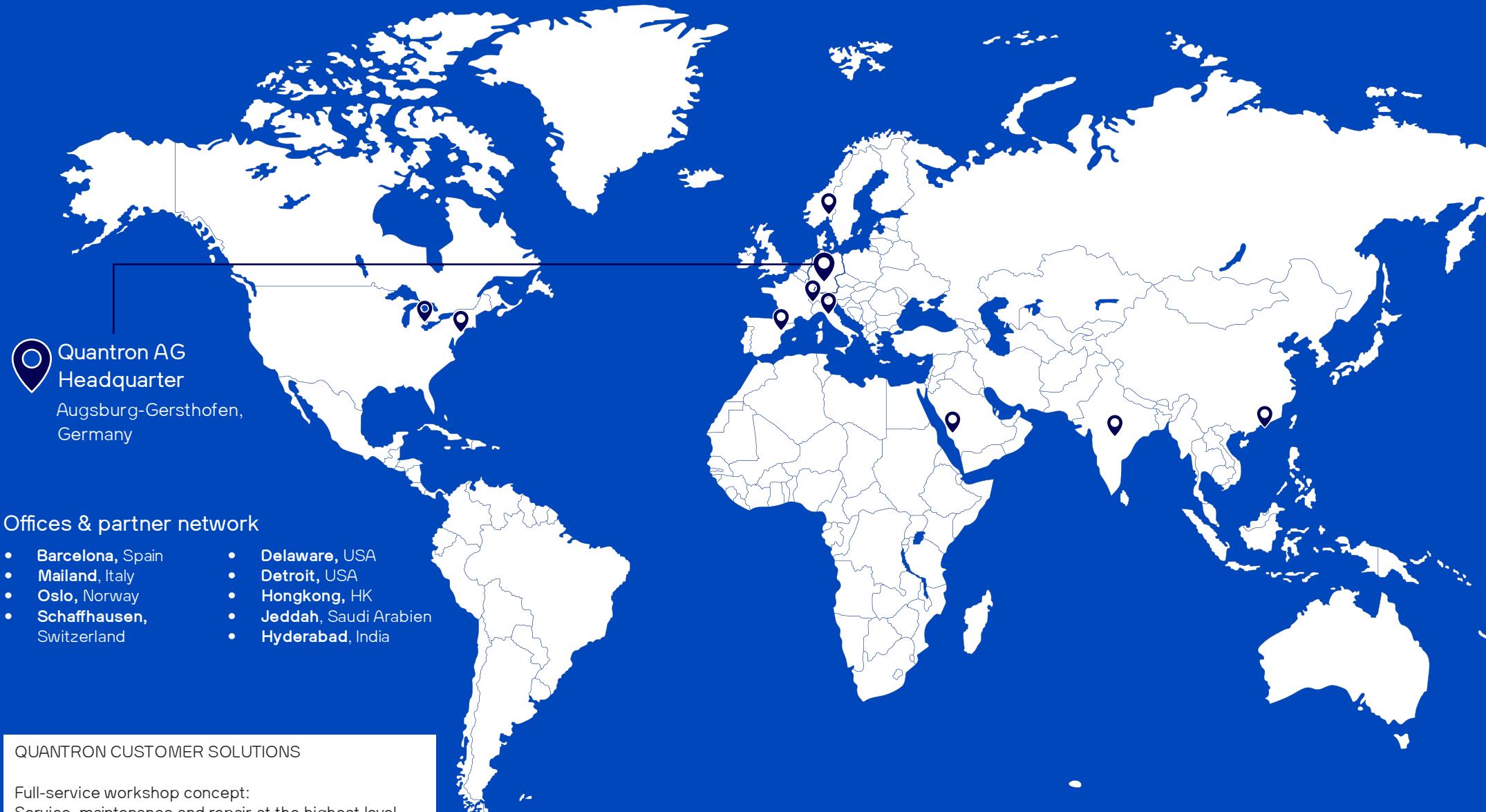


## QUANTRON CUSTOMER SOLUTIONS

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



# Global availability with a strong network of QUANTRON offices and 700 service partners





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and specifications of its products without prior notice.