



Racing technology for a Racing Wheelchair

What happens when top-level motorsport technology is brought to the field of para sports? TOYOTA GAZOO Racing Europe (TGR-E) has been innovating for answers for close to a decade and the Racing Wheelchair is the latest expression of this commitment to mobility.

Working hand in hand with experienced athletes to develop unique solutions, TGR-E's knowledge of para sports has reached new heights with the company's first Racing Wheelchair.

TGR-E's engineers swapped the design of World Championship-winning race cars to begin a clean-sheet design of a Racing Wheelchair.

Using techniques and technologies more familiar on the race tracks of the world, TGR-E engineers strived for the optimum shape, ensuring all the athlete's energy goes into forward motion.

Working closely with top athlete Alhassane Baldé, already a multiple European Championship medal winner, TGR-E engineers used the latest technology and methods to conceptualise a new kind of Racing Wheelchair.

A key philosophy behind the development was the dream to create a platform which can be adapted to the size and shape of other athletes. Only a minority of components require modification to adjust the Racing Wheelchair to the needs of each athlete.

The result is a design as visually striking as it is technically innovative, bringing performance and safety together to elevate para sports technology to a new level. A Racing Wheelchair adaptable to most athletes, handmade and adjusted to each individual's exact requirements, crafted from the lightest, strongest materials available.

The TGR-E Racing Wheelchair is born from a winning heritage on the race tracks of the world, and pushes the limits for better to create new successes in the para sports arena.

The base cost of the Racing Wheelchair is €37,850 (excluding VAT) plus individualisation packages (approx €5,000-€15,000), individual wheel sets (price upon inquiry) and delivery fees.



TOYOTA GAZOO Racing Europe in Para Sports

2011: Beginning of collaboration with Andrea Eskau, summer and winter Paralympian.

2012: Double Paralympic road race gold for Andrea in London using a bike featuring a TGR-E seat insert.

2014: Andrea wins biathlon gold at Sochi, using a TGR-E-designed sled, which provided a 24% weight saving.

2016: Rio gold in cycling for Andrea using a revised handbike following a TGR-E weight-saving project.

2018: Six Paralympic medals for Andrea, including two golds, in PyeongChang using a new sled, further optimised for weight and performance.

2019: TGR-E starts work on a new handbike for Andrea and begins a collaboration with Alhassane Baldé to develop a unique Racing Wheelchair.

Safety and Speed

ERGONOMICS

Innovative back support ensures optimum safety and comfort, with quick release mechanism for ease of use.

ADJUSTABILITY

Seat is adjustable in four directions to ensure peak comfort in all circumstances.

STEERING

Integrated steering within the main spine of the racing wheelchair for optimum performance.



CARBON FIBRE

Lightweight, high strength composite materials form the structure of our racing wheelchair; just like our race cars.

3D PRINTED

Embracing the latest in production technologies and topology optimisation to deliver immense strength.

Attention to detail

Inspired by what it takes to win in motorsport, our engineers re-imagined the Racing Wheelchair. Every detail has been evaluated and optimised for peak performance, combining our knowledge of high-tech materials with powerful design tools and processes.



ENDURANCE

In one of racing's toughest disciplines, we are multiple World Champions and Le Mans 24 Hours winners.

A real racing heritage

TOYOTA GAZOO Racing Europe understands performance and the pressure to succeed; it's what we do 24/7. Around the world, on roads and track, we are always pushing the limits for better.

CUSTOMER RACING

We know what it takes to deliver competitive products and high level service to customers; dozens of TGR-E race cars participate each year around the world.

RALLY

In the most changeable and difficult conditions in motorsport, TOYOTA GAZOO Racing is a multiple World Champion.





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