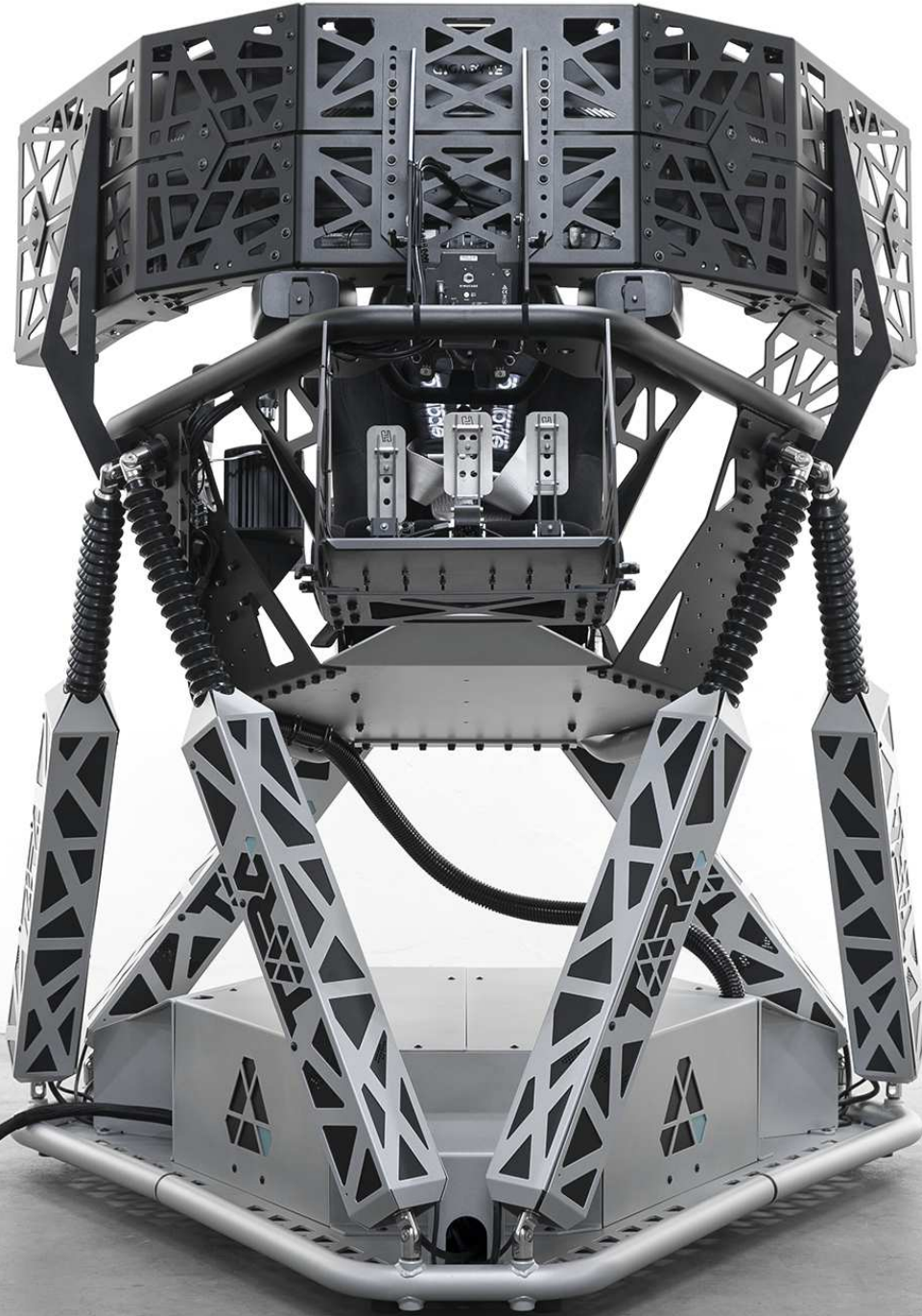




EVO 2

Press and hold Escape or Reset to get out.



GRAPHICS ADJUSTMENTS		
Mirror	Left Side	
Yaw	< 0.0	>
Pitch	< 0.0	>
V Mirror FOV	< 62.0	>
Driving FOV	< 152.0	>
Shift Horizon	< 0.0	>
Driver Height	< 1.0	>
FFB Strength	< 4.9 (89.7Nm)	>



Where the game ends, true simulation begins.

TORQ EVO 2 is a professional motorsport-grade training platform.
The second generation of our proprietary 6DOF system.

It was not created as an entertainment simulator.
It was engineered as a platform for real driver development.

The platform geometry, motion kinematics and control software form one fully optimized system.

TORQ EVO 2 combines physical vehicle behavior with true vehicle orientation in space.

TORQ EVO 2 sets the standard for professional 6DOF simulation.

MOTION. MASTERED.





6DOF in **TORQ EVO 2** – an integrated driving dynamics model

In **TORQ EVO 2**, all six motion axes operate together within a single integrated motion model. The system is engineered to reproduce vehicle motion cues, load transfer, track geometry and spatial orientation as one coherent physical experience.

The motion axes do not perform isolated or independent functions. Each axis contributes both to the generation of physical forces and to the reproduction of the track profile, forming a coherent and dynamic model of vehicle behavior.

The platform reproduces real track gradients while preserving their actual values. The track inclination angle is directly translated into the platform's working angle. For example, an uphill section with an inclination of approximately 10°, such as on the Spa-Francorchamps circuit, is reproduced by the platform with a corresponding motion of approximately 10°.

The simulator does more than simply move — it recreates the real relationship between track geometry, vehicle dynamics and the forces acting on the driver. As a result, the driver prepares for the real conditions that will be encountered on track.

Full motion simulation = vehicle behavior + track geometry

Surge, Sway, Heave, Roll, Pitch and Yaw operate in real time as a single, synchronized motion system.

This integrated use of all motion axes within one dynamic model is what distinguishes **TORQ EVO 2** from simplified motion systems and classifies it as a professional training tool.





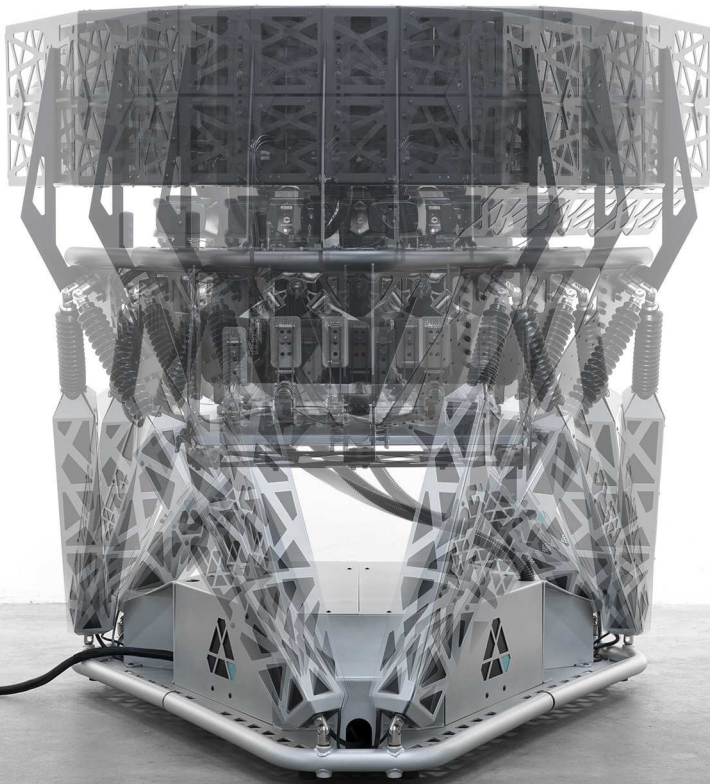
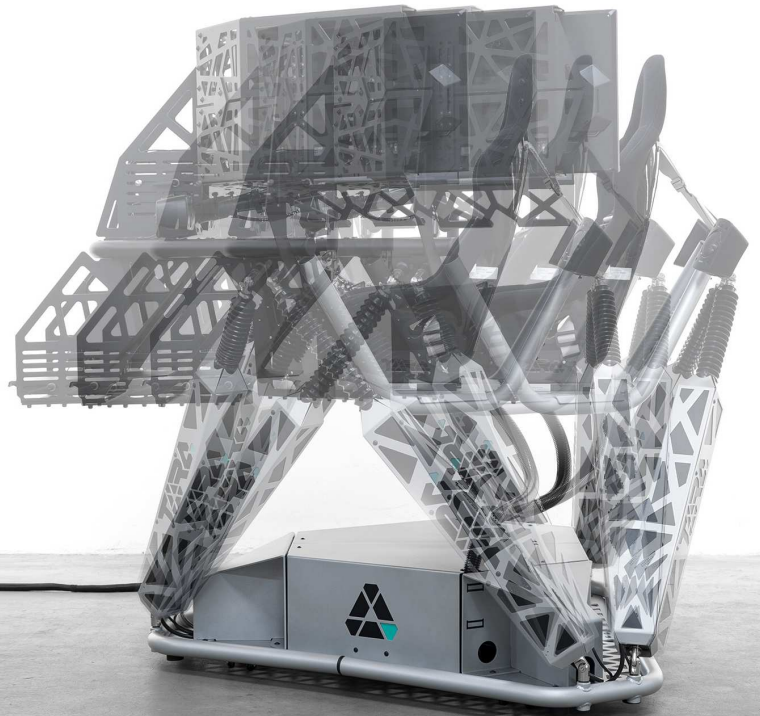
SURGE

Linear motion along the longitudinal axis (X)
forward / backward

Replicates longitudinal weight transfer of the vehicle:

- acceleration
- braking
- lift-off
- trail braking
- gear shifts

Motion range: **400 mm**
180 mm forward / 220 mm backward



SWAY

Linear motion along the lateral axis (Y)
left / right

Replicates lateral weight transfer of the vehicle:

- cornering G-forces
- lateral seat load
- rapid direction changes
- stability in cornering

Motion range: **350 mm**
175 mm left / 175 mm right



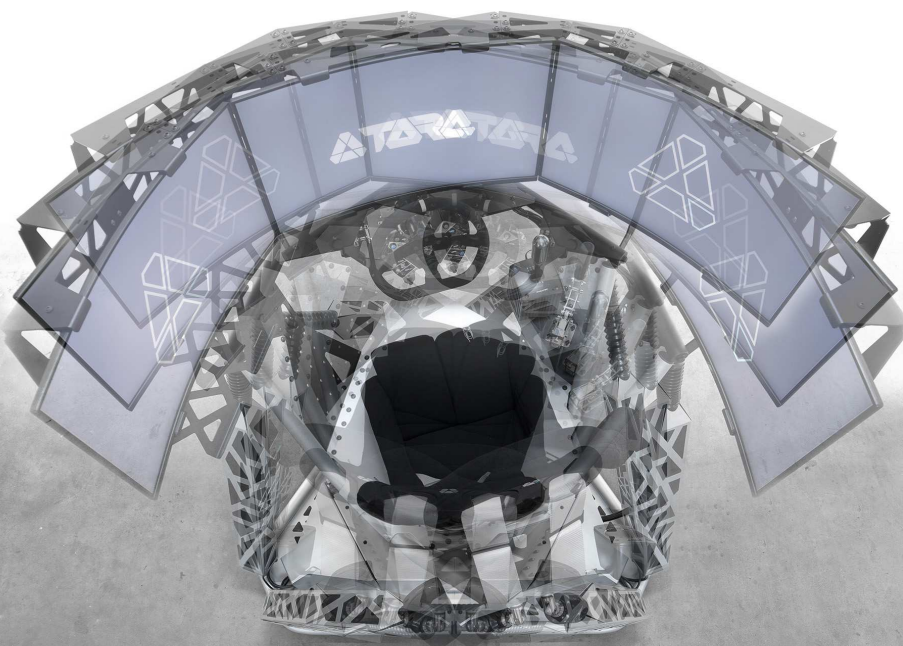
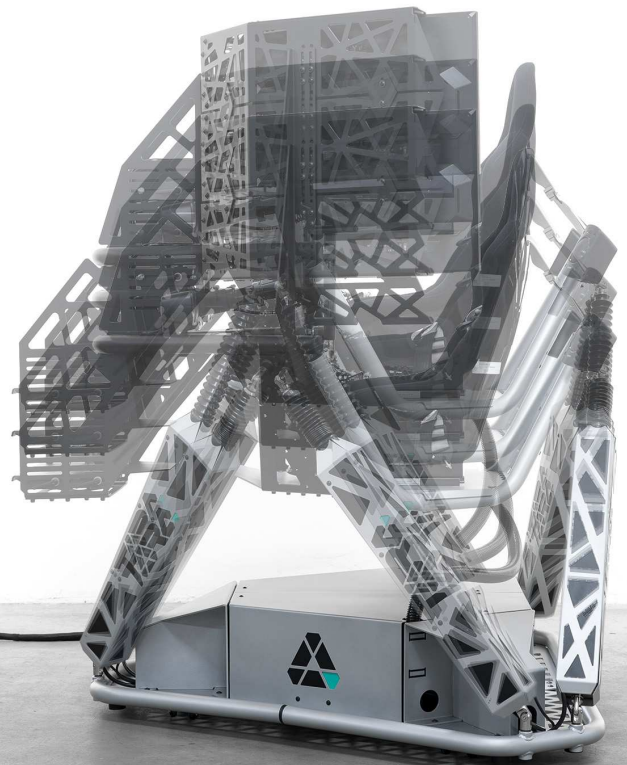
HEAVE

Linear motion along the vertical axis (Z)
up / down

Replicates vertical suspension travel and axle load:

- compression and rebound
- curbs
- surface irregularities
- load variation on the axles

Motion range: **255 mm**
125 mm up / 130 mm down



YAW

Rotational motion around the vertical axis

Replicates vehicle rotation around its vertical axis:

- oversteer
- rear axle grip loss
- rotation through corners
- controlled sliding

Motion range: **36°**
18° left / 18° right



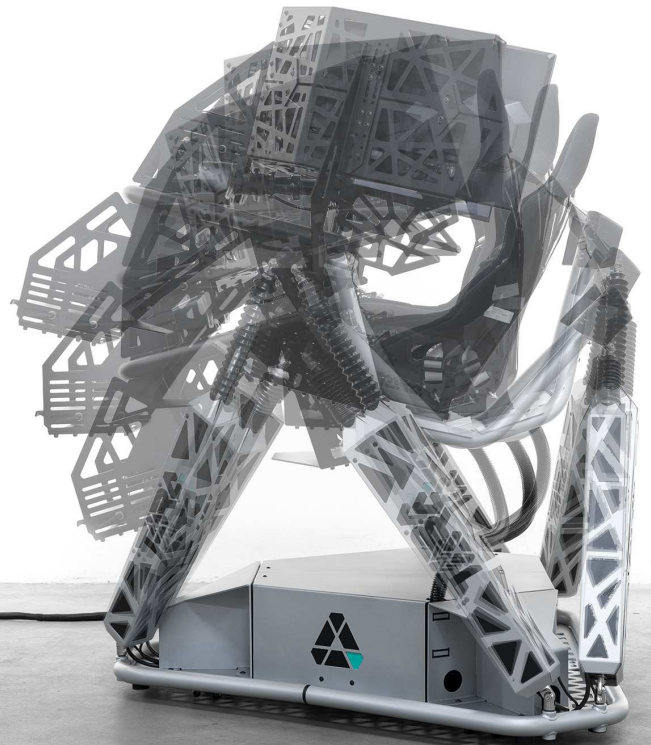
PITCH

Rotational motion around the lateral axis

Replicates track elevation and longitudinal profile:

- inclines and declines
- body angle relative to the track surface
- suspension response to terrain profile
- vehicle orientation in space

Motion range: **30°**
+15° / -15°



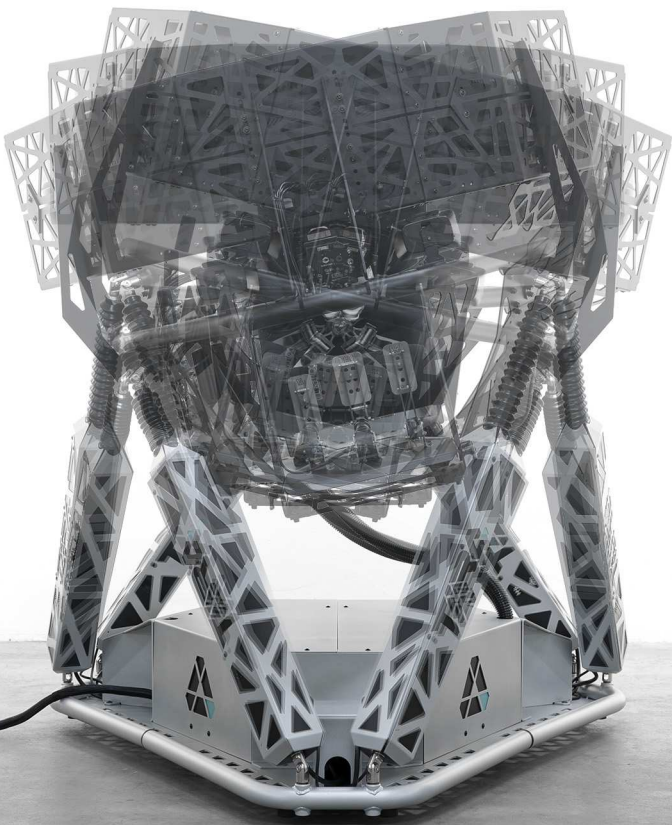
ROLL

Rotational motion around the longitudinal axis

Replicates body roll and suspension response to lateral terrain profile:

- banking and camber
- vehicle orientation relative to the horizon
- chassis balance in corners
- suspension response to surface geometry

Motion range: **28°**
14° left / 14° right





TORQ Control

Precision in Motion.

Dedicated Software for TORQ EVO 2

Engineered exclusively for a precisely defined 6DOF architecture — without the compromises typical of universal motion control solutions.

Software, kinematics and mechanics form one fully optimized system.

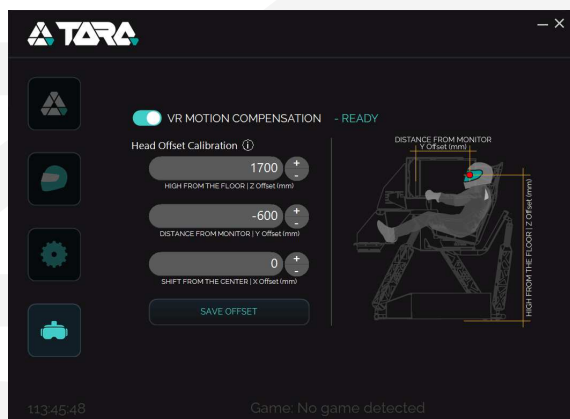
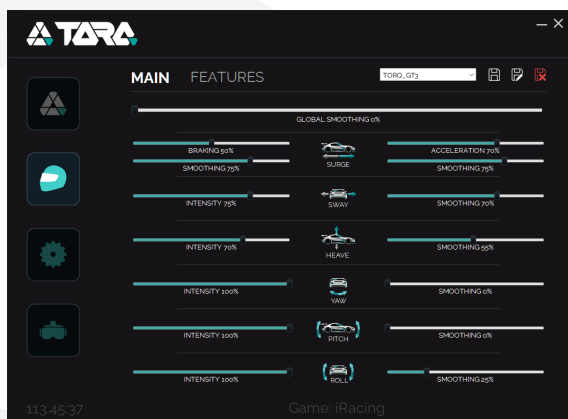
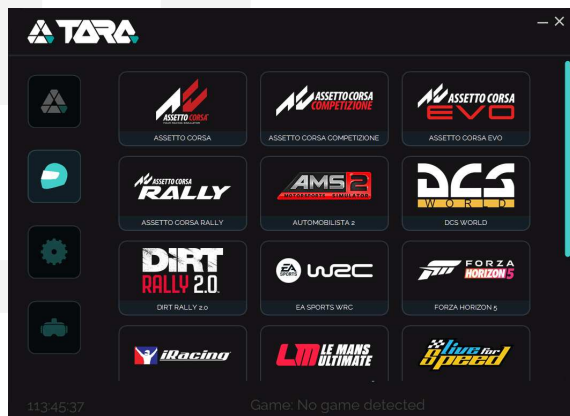
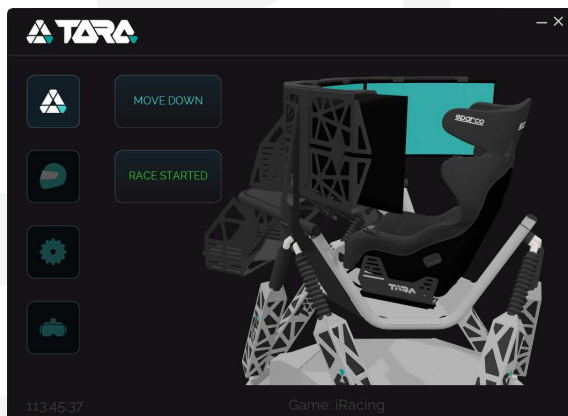
Real-Time Response

Full synchronization of all motion axes — with no perceptible latency.

Personalization

Independent tuning of each motion axis.

Profiles tailored to driving style and selected simulation software.



Automatic Detection

The system detects the running title and automatically activates the appropriate configuration.

Wide Compatibility

Integration with leading titles.

Stable telemetry-based communication.

Intuitive Interface

Clear layout and fast access to key parameters.

Advanced control — without unnecessary complexity.

Continuous Development

Regular updates and new features driven by real-world experience and user feedback.



Applications

TORQ EVO 2 is designed as a professional training platform. It excels wherever precision, repeatability and realistic vehicle behavior analysis are essential.

Professional Driver Training

Developing correct driving habits, improving consistency and refining vehicle control across varying conditions.

Motorsport Academies and Teams

Track learning, race scenario simulation and structured driver development programs.

Simulation Centers and Commercial Facilities

A premium-grade motion platform for clients who expect the highest level of realism.

Specialized Training and Engineering Projects

Applications extending beyond motorsport, including aviation, experimental and research simulations.

Events and Special Projects

Professional simulation experience delivered in a controlled environment.





Performance parameter

	SURGE	SWAY	HEAVE	ROLL	PITCH	YAW
EXCURSIONS	400 mm +180 -220	350 mm +175 -175	255 mm +125 -130	28 deg +14 -14	30 deg +15 -15	36 deg +18 -18
VELOCITY	650 mm/s	640 mm/s	420 mm/s	42 deg/s	47 deg/s	50 deg/s

4 ms

control response
time

1000 Hz

control frequency

100-240 V AC

worldwide friendly
supply voltage

300 kg

payload

Technical Specifications

Platform Type:

6DOF – Stewart architecture

Electrical Parameters:

Power supply — 100–240 V AC, 50/60 Hz

Maximum power — 3.2 kW

Average power - typical game — 0.26 kW

Static footprint:

180 × 165 (length × width)

Platform floor space, excluding motion clearance.

Required installation space:

240 × 210 × 210 cm (length × width × height)

Min clearance required for full platform motion
and safe operation.

Weight (fully equipped):

280 kg (platform only)

390 kg (fully equipped)

Control system:

TORQ Control - dedicated 6DOF software

Compatibility:

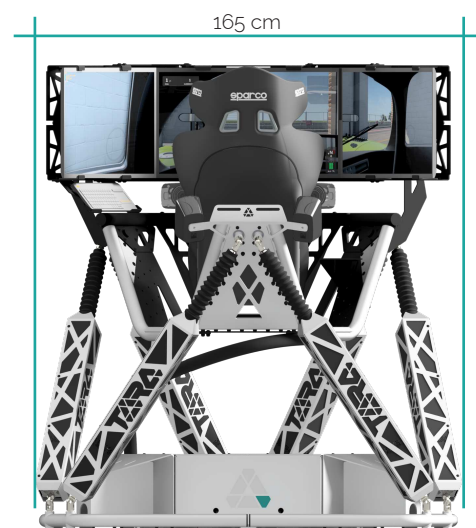
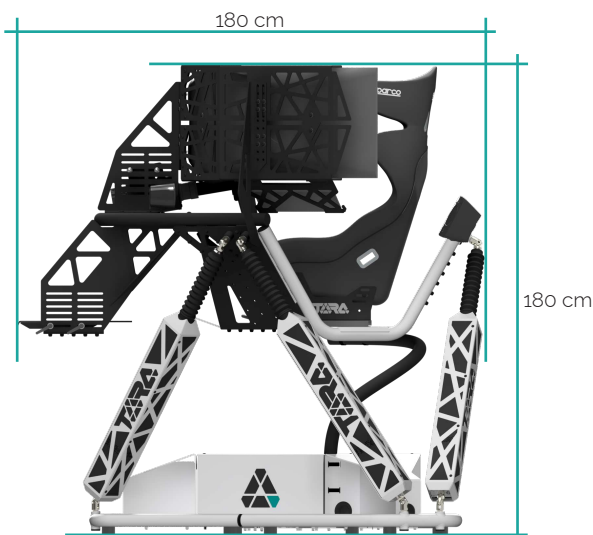
Leading titles with telemetry support

Warranty:

24 months

Technical support:

Remote support and software updates





The People Behind the Technology

TORQ was created as the result of years of work on 6DOF motion systems.

Each generation of the platform is backed by real-world testing, hundreds of hours of analysis, and continuous refinement of both mechanical design and control systems.

We do not build conceptual products.
We build systems designed for real-world operation and continuous evolution.

TORQ EVO 2 is the outcome of years of experience, iteration and deliberate engineering decisions.

Technology is the foundation.
But people give it direction.





2016

Development of the proprietary 6DOF platform begins.
Geometry analysis, initial kinematic testing and development of the control system concept.

2017

First complete 6DOF architecture.
Stable mechanical structure and full six-axis real-time control.

2019

First external installations.
Deployment in private and commercial environments, marking the beginning of intensive operation and system optimization.

2022

EVOLVE SIMULATION
Formal establishment of the company and launch of the first commercial generation — EVO Motion Simulator.

2026

TORQ EVO 2
Second-generation 6DOF system.
New platform geometry, increased dynamics, optimized construction and dedicated TORQ Control software.



TORQ EVO 2 is a platform for those who expect more than simulation.

Designed and manufactured in Poland (EU).

For cooperation, distribution or individual orders,
please contact:

hello@torqsim.com
www.torqsim.com