

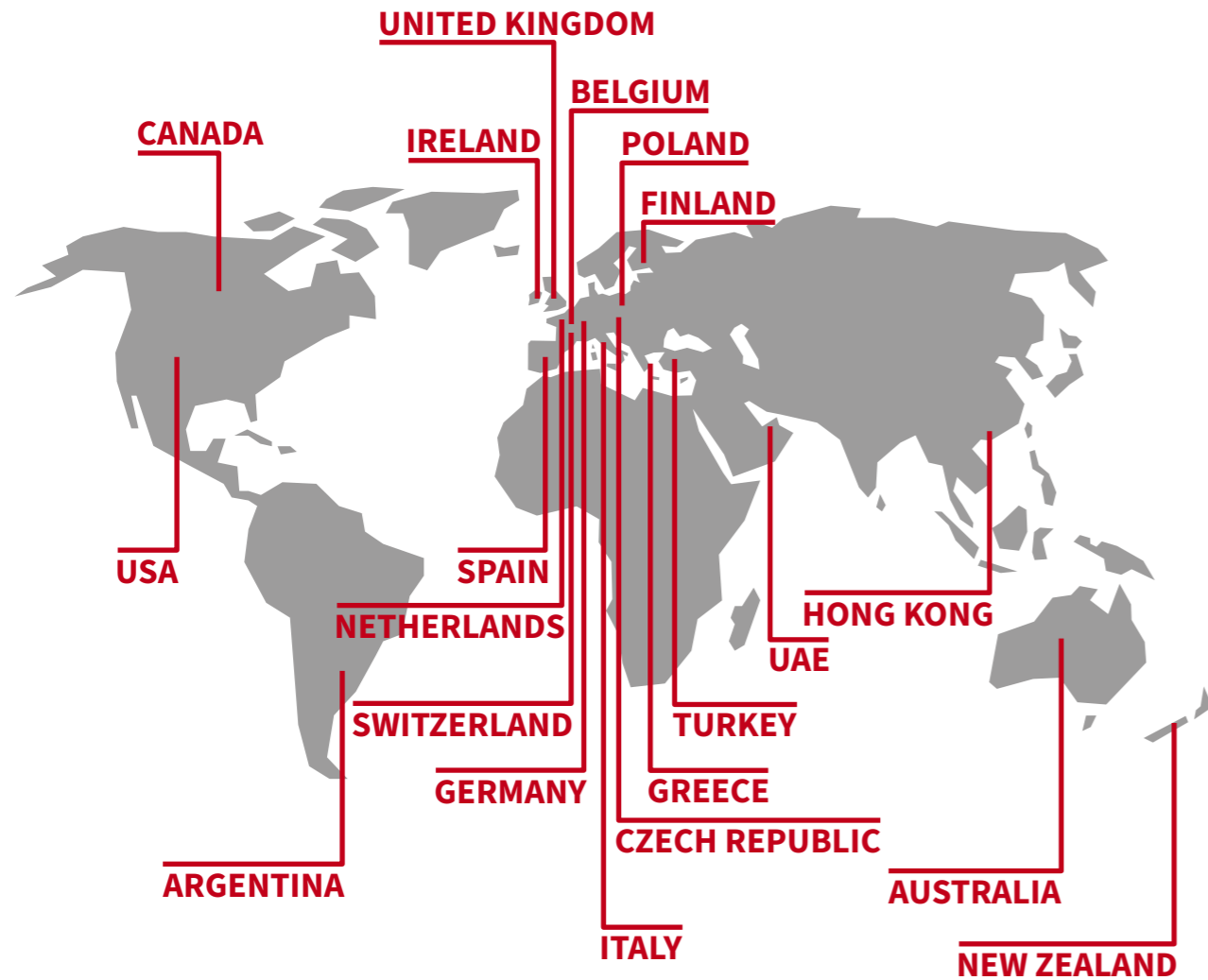
BORN TO
PERFORM



 **QUBICSYSTEM**
2025

ABOUT US

WHO WE ARE



Since the beginning of **Qubic System**, we have an idea of making motion not a luxury any more - to share and spread that unique experience to the gaming and racing community.

Of course, as **Motion Systems** we cooperate with huge simulator integrators in scope of professional and military applications, but our global goal is to make motion platforms accessible for the gamers the same way as PC computers became a common thing.

The first step in achieving that is to present Qubic System to the sim-racers, that is why we have begun with the linear actuator technology in various combinations (2DOF-6DOF) by building an ecosystem of solutions based on QS-220 sets in different configurations - users have the ability to upgrade their 2DOF to even 6DOF by acquiring extra actuator set and dedicated brackets.

We will also extend this ecosystem with new products like Direct Drives, Pedals, Shifters etc. - all of them working on the same single license of **Qubic Manager** which is free of charge!



PROUDLY MADE IN POLAND / EU

WHY QUBIC

HOW DOES IT WORK?



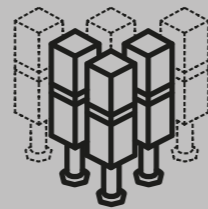
HARDWARE & SOFTWARE COMPATIBILITY

All our motion platforms and accessories work on the same single license of Qubic Manager which is free of charge!



PATENT PENDING TECHNOLOGY

Qubic System is based on hardware and motor drivers designed in-house to do just one, and only one job, controlling motors in vehicle simulator applications and these are perfect at it. We totally understand that to achieve mastery in this field, the user must have full control over software and hardware.



QUBIC ECOSYSTEM

Qubic is based on linear actuator technology in various combinations (2DOF-6DOF). Due to building an ecosystem of solutions based on QS-220 sets in different configurations - users have the ability to upgrade their 2DOF to even 6DOF by acquiring extra actuator set and dedicated brackets.

HOW DOES IT WORK?

WHY WE DECIDED TO DEVELOP OUR OWN LINEAR ACTUATOR AND HOW IT'S MADE?

Over the past few years, we have analyzed and mechanically tested many of the linear actuators. During months of testing, they have encountered certain limitations related to performance, lack of precision, smoothness of movement, service life (especially during vibration) and excessive noise in the various popular products.

We saw that there was no room for compromise and took the decision to develop our own linear actuator of the linear actuators available on the market.

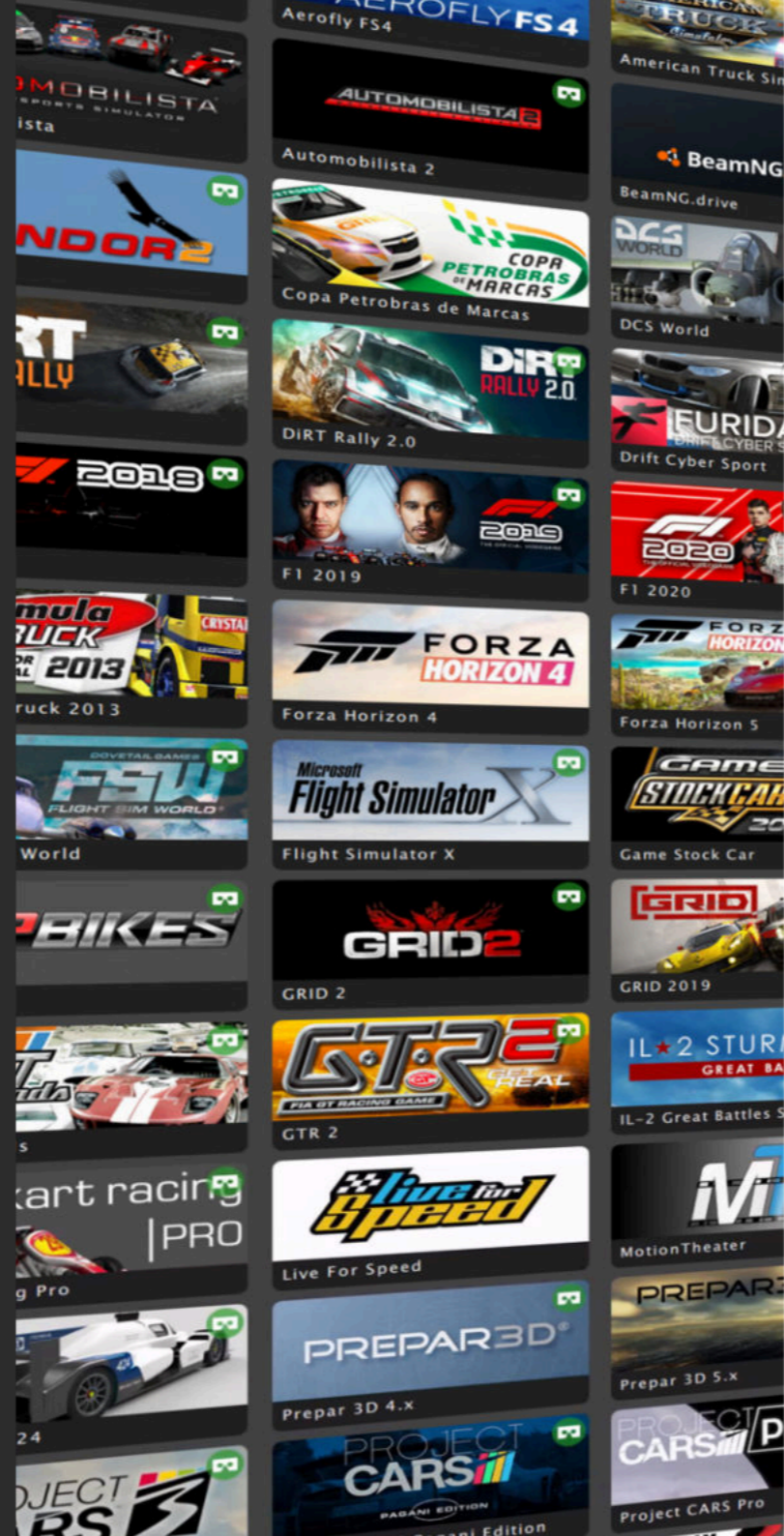


QUBIC MANAGER SOFTWARE FOR YOUR MOTION PLATFORM

EVEN MOST ADVANCED HARDWARE IS NOTHING WITHOUT GOOD SOFTWARE

Qubic Manager (platform manager) is professional and specialized software for the platform and is click and play compatible with all major racing and flight titles on PC and constantly updated to support new titles as they are released.

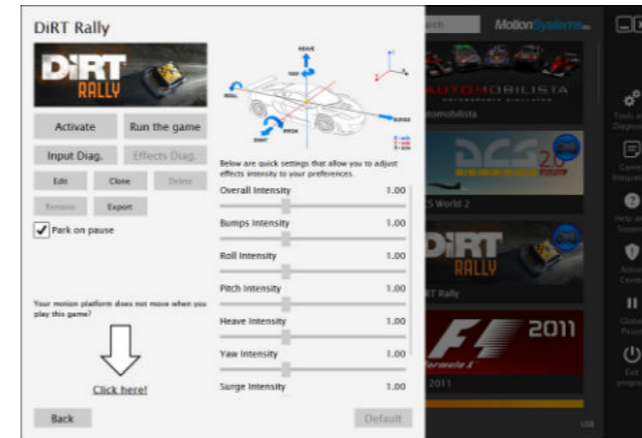
The Qubic Manager is a powerful engine, yet it's simple to use meaning you can adjust levels of motion, bumps, roll and pitch with a click of a button. Software also includes VR HeadWay technology, which is using advanced mathematics formulas to calculate necessary compensation and applies it to the VR headset in real time, it gives the most authentic and immersive simulation experience.



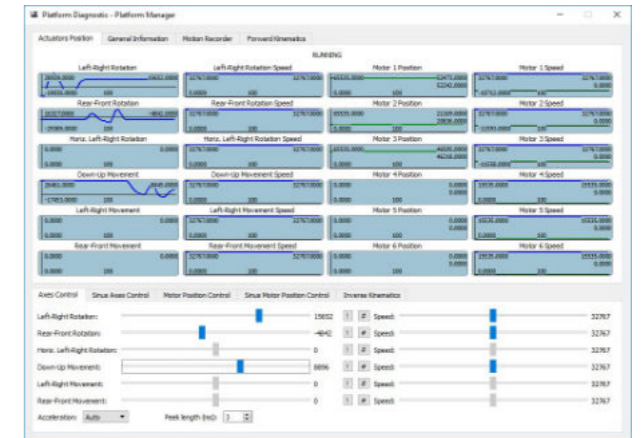
QUBIC MANAGER

POSSIBILITIES OF MOTION ADJUSTMENT

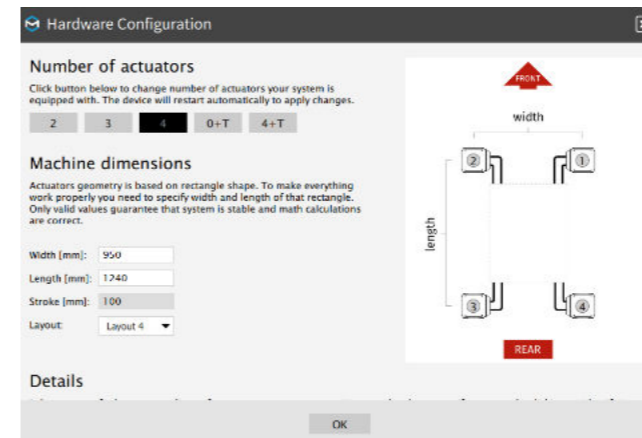
FULL CONFIGURABLE PROFILE



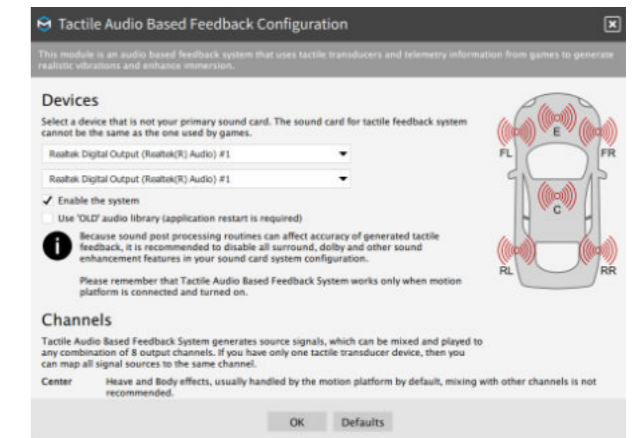
DIAGNOSTIC TOOLS



PRESET LAYOUTS



TACTILE AUDIO BASED FEEDBACK



SOFTWARE

Our commitment through Qubic System technology is to provide important information as data to the driver - not just "the motion" to the driver.

ACE

ACE - Motion cueing algorithms with washout filters. In terms of individual perception and preferences, software combined with the ACE system enables the user to set their own parameters for each of the effects with the help of sliders, depending on whether the driver prefers stronger or weaker sensation of a specific occurrence or motion.

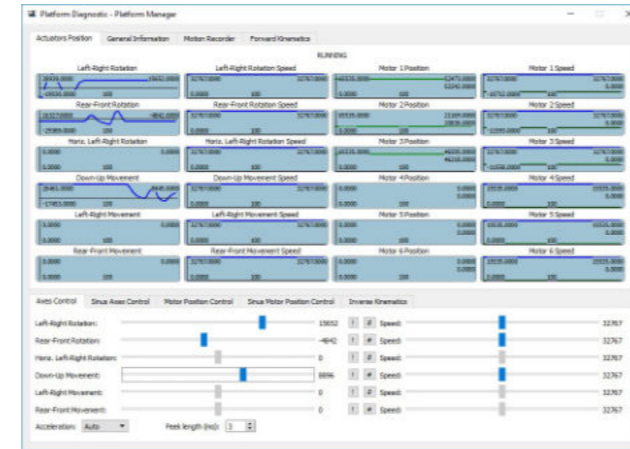
Moreover, there are separate settings for enhancing the effects of, for example, gear changes, tire slippage, engine rev limit or driving over the curbs, but all of those you can find in ready-to-play profiles made by professional racers.

VR HEADWAY

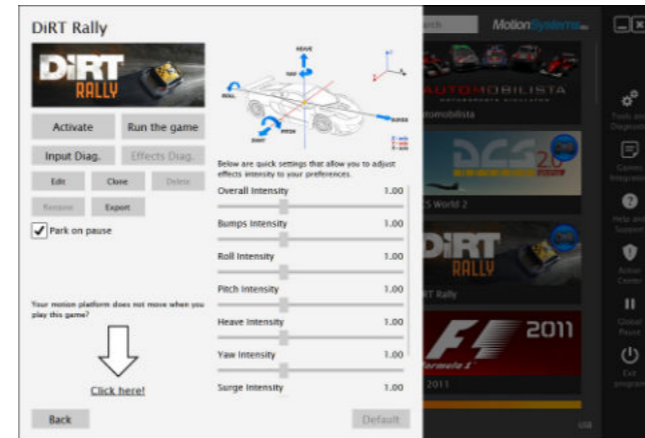
Qubic Manager software uses advanced mathematics formulas to calculate necessary compensation and applies it to the VR headset at run-time. It eliminates platform movements from the VR tracking system causing your experiences to be more immersive and authentic.

Compensation module is transparent for end users, it can be used with almost all our platforms and level of correction can be adjusted to user individual preferences with a few simple sliders.

PLATFORM DIAGNOSTIC

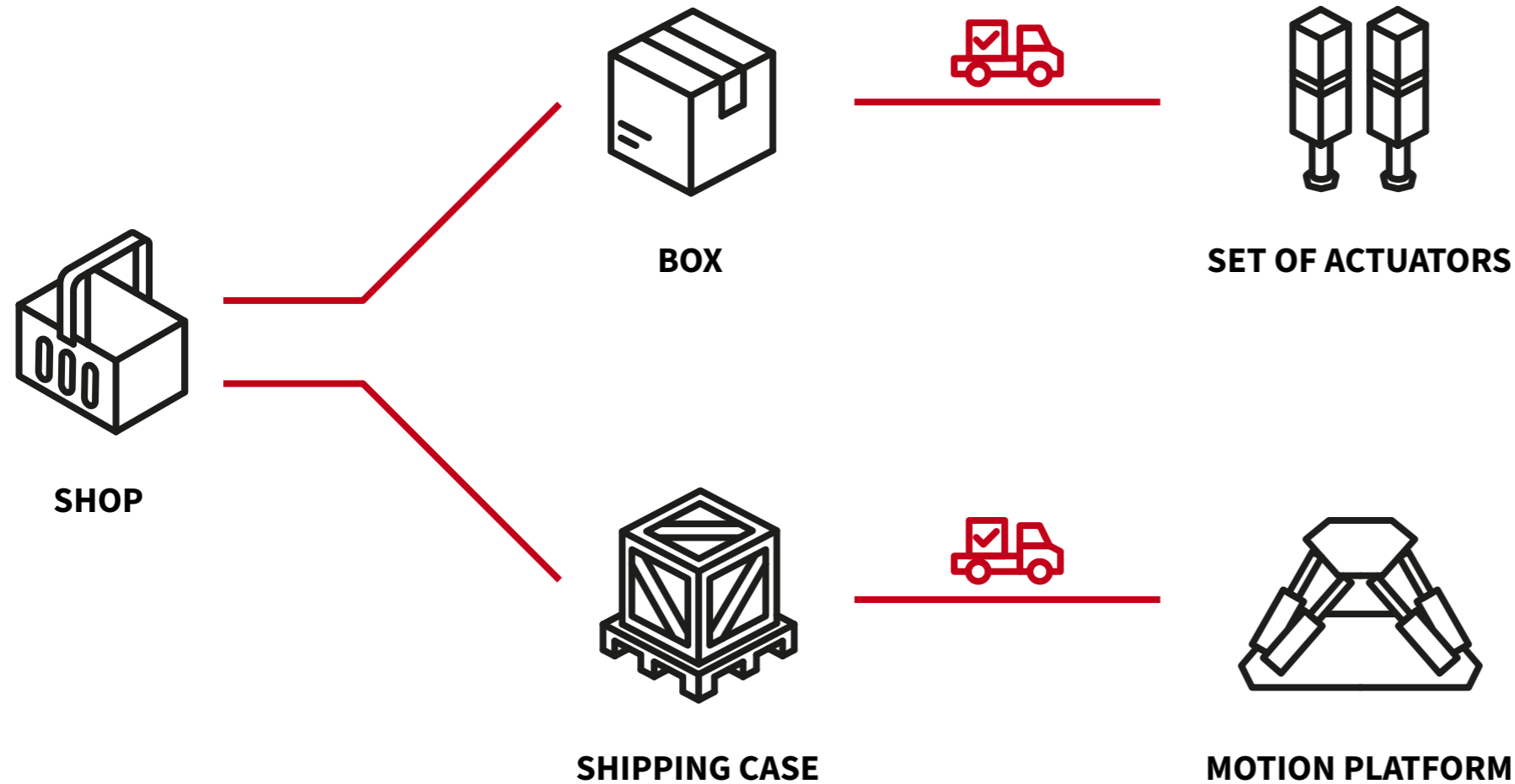


FULL CONFIGURABLE PROFILE



TRANSPORT

EASY AND COMFORTABLE FOR TRANSPORT



EASY FOR TRANSPORT

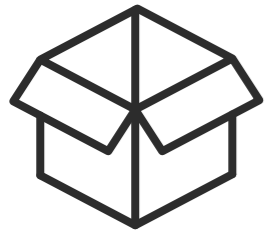
QUBIC SYSTEM MOTION PLATFORMS ARE REALLY EASY TO TRANSPORT

QS-220 sets were packed in special heavy-duty boxes, their shape and weight are very convenient for transportation. Inside the box you will find Qubic System manual that allows to quickly install the actuators in your cockpit.

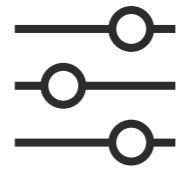
The QS-V20, QS-S25 and QS-625 motion platforms are packaged in dedicated shipping cases for safe unit shipment by land, sea or air. Motion systems are ready to race directly from the box.

INSTALLATION

PLUG&PLAY SOLUTION



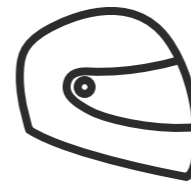
UNBOX



SETUP



SOFTWARE
INSTALLATION



FUN & RACE

QUICK INSTALLATION

**ONLY FOUR STEPS
TO RACE**

Qubic System motion platforms are almost ready to race. You are only a few steps away from installation to enjoying your new racing adventure.

QS-PIVOT
ENTRY-LEVEL MOTION ACCESSORY

YOUR FIRST STEP INTO THE WORLD OF PREMIUM MOTION

QS-Pivot is an innovative accessory designed for users seeking the intense sensations typically found in high-end simulators.

When combined with QS-210 or QS-220 actuators, it creates a unique 2.5 DOF* configuration that delivers full immersion in driving simulation.

* Heave motion pattern combined from pitch axis

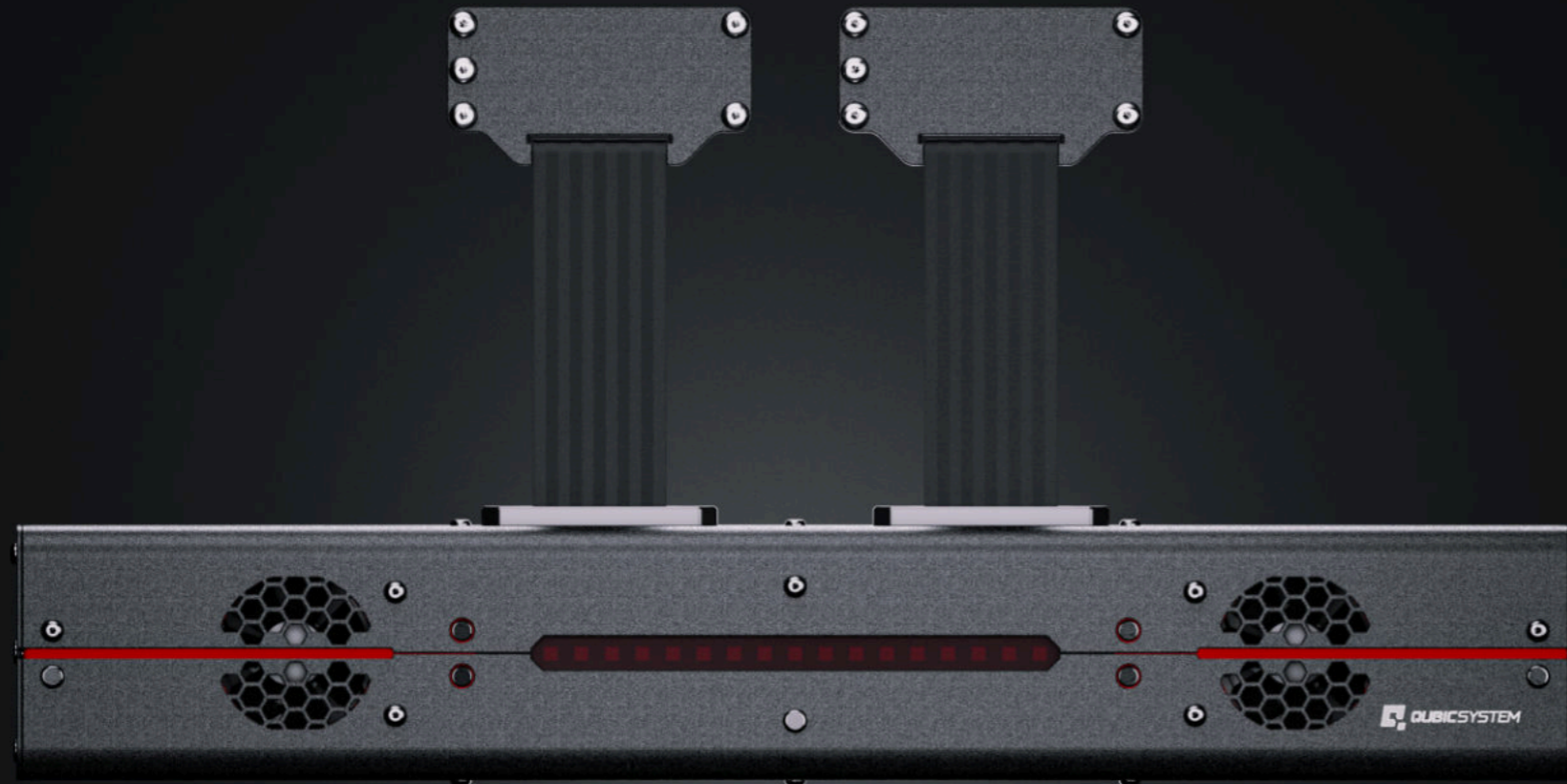
QS-PIVOT

ENTRY-LEVEL MOTION ACCESSORY



QS-BT1

6DOF MOTION COCKPIT



QS-BT1
DUAL-CHANNEL SEAT BELT TENSIONER

ENGINEERED FOR MAXIMUM IMMERSION IN SIM RACING AND FLIGHT SIMULATIONS

The QS-BT1 harnesses advanced technology from the QS-220 to deliver a dual-channel direct drive seat belt tensioner that significantly enhances sim racing and flight simulations. It enhances force feedback from steering systems and increases realism by accurately simulating intense braking, gear-shifting, high-speed cornering, engine vibrations, and road textures like rumble strips.

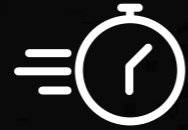
Versatile enough to function independently, its robust 200 N force per channel makes it ideal for replicating extreme forces in both racing and flight scenarios.

QS-210
LINEAR TECHNOLOGY

LINEAR ACTUATORS SET QS-210: THE IDEAL MOTION PLATFORM FOR A VARIETY OF SIM COCKPITS

QS-210 linear actuators are designed for racing enthusiasts who are looking for both quick and simple installation, failure-free operation, no maintenance combined with high performance and free of charge software that supports more than 80 games.

The set of two QS-210 with dedicated mounting brackets is ready to race right out of the box.



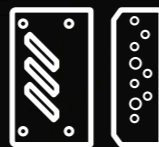
EXTREME SPEED

Maximum velocity is 400 mm/s, acceleration up to 0.4G



SUPER SILENT

The most quiet motion platform available on the market allows motion cockpits to be used in homes and flats.



MOUNTING BRACKETS

8 pcs of dedicated mounting brackets.

QS-210

MODULAR AND COMPACT DESIGN





QUBICSYSTEM



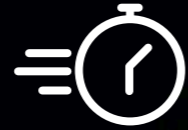
JKA JAD
SU UGA

QS-220
LINEAR TECHNOLOGY

LINEAR ACTUATORS SET QS-220 AS A PERFECT MOTION BASE FOR VARIOUS SIM COCKPITS

Super fast linear actuators - maximum velocity up to 800 mm/s, acceleration up to 0.8G and real time vibrations up to 100 Hz provides incredible levels of vehicle feedback to the driver allows feeling exactly what the vehicle is doing in real time.

During the competition, drivers can feel every possible detail noticeable in a real race (including motor vibrations, road surface, bumps, shunting effects etc.).



EXTREME SPEED

Maximum velocity is 800 mm/s, acceleration up to 0.8G



SUPER SILENT

The most quiet motion platform available on the market allows motion cockpits to be used in homes and flats.



ULTRA-LOW LATENCY

Latency time below 8 m/s which is 10 times faster than human blinking.

QS-220

MODULAR AND COMPACT DESIGN



QS-V20

4DOF MOTION COCKPIT



QS-V20

4DOF MOTION COCKPIT WITH TRACTION LOSS

SIMULATING VEHICLE CHASSIS MOTION WITH ULTIMATE PRECISION AND ACCURACY

The QS-V20 is an extended 4DoF motion cockpit, designed for pro racing car simulation, dedicated to both drivers training and sim racing enthusiasts. The motion system based on world's fastest linear actuator's technology provides incredible levels of vehicle feedback to the driver.

This motion platform is suitable for Rally, GT and F1 simulations, also, the small footprint and lightweight design allow fitting the machine to every racing room.



QS-H13
SEAT MOVER

NEW CHALLENGER HAS ARRIVED

The QS-H13 Challenger, leveraging the same advanced technology as the QS-220 actuators, redefines the standards for motion systems with its compact design and ultra-quiet performance. As a premier Qubic System seat mover, it surpasses other available seat movers by providing exceptionally smooth and precise motion across two axes—pitch and roll.

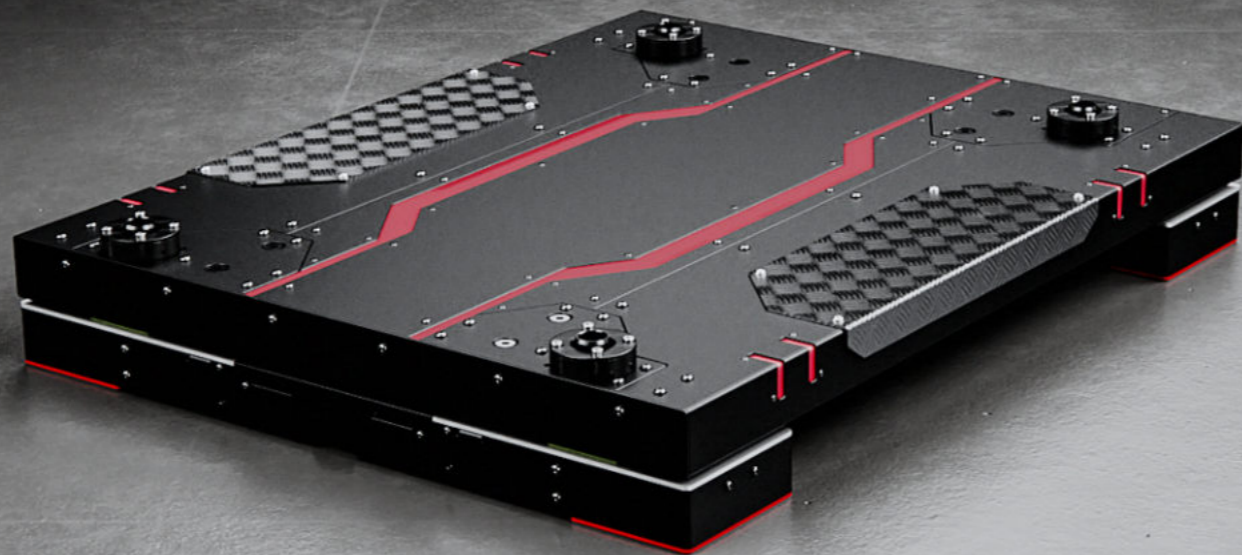
This system expertly simulates the dynamic forces encountered during activities such as braking and cornering in car simulations or performing sharp maneuvers in flight simulations. Ideal for both driving and flight simulation environments, the QS-H13 offers a seamless and immersive experience that brings every detail of motion to life with unprecedented accuracy.

QS-H13
SEAT MOVER



QS-CH2

2DOF MOTION PLATFORM



QS-CH2 2DOF MOTION PLATFORM

**2DOF MOTION PLATFORM
THAT GIVES THE SURGE
AND YAW MOTION FOR
EVEN BETTER OF FEELING
VEHICLE'S TRACTION
LOSS, BREAKING AND
ACCELERATING.**

The QS-CH2 provides the most precise traction loss feeling by moving the entire cockpit.

The motion system is based on the world's fastest linear actuator's technology, which delivers an incredible level of instant feedback to the driver. This motion platform is suitable for Rally, Drift and any racing simulations.



USE-CASE EXAMPLE
QS-CH2+QS-CH1

QS-CH1
3DOF MOTION COCKPIT

**COMMERCIALLY BUILT,
BUT PERFECT FOR HOME
USE WITH ITS COMPACT
DESIGN AND LOW NOISE
OPERATION**

QS-CH1 is an innovative training product designed for advanced simulation of various modes of transport. Its compact design based on the technology of linear actuators, makes the driver move to the virtual world with the mapping of stimuli from the real world. Electric actuators generate precise vibrations in real time and reproduce the finest details while driving – such as curves and obstacles on the racetrack.

The lightweight and compact structure makes it easy to transport as well as service for multiple and variable installation.

QS-CH1
3DOF MOTION COCKPIT



QS-S25

6DOF MOTION COCKPIT



QS-S25
6DOF MOTION COCKPIT

**THE 6DOF MOTION
COCKPIT "SPIDER" IS
MAINLY INTENDED FOR
PROFESSIONAL DRIVERS
DAILY TRAINING**

The QS-S25 is an advanced motion cockpit, designed for the most demanding racers who are looking for a professional simulation experience on high top level. The motion system based on patent pending linear actuator's technology allows a much stronger sensation range such as under steer, loss of grip or overloading during brake clearly blurring the difference between reality and virtual environment.

Due to the combination of dedicated accessories and the QubicManager software, the 6DoF motion platform provides drivers with an extreme experience like in a real race or during the ultimate flights.

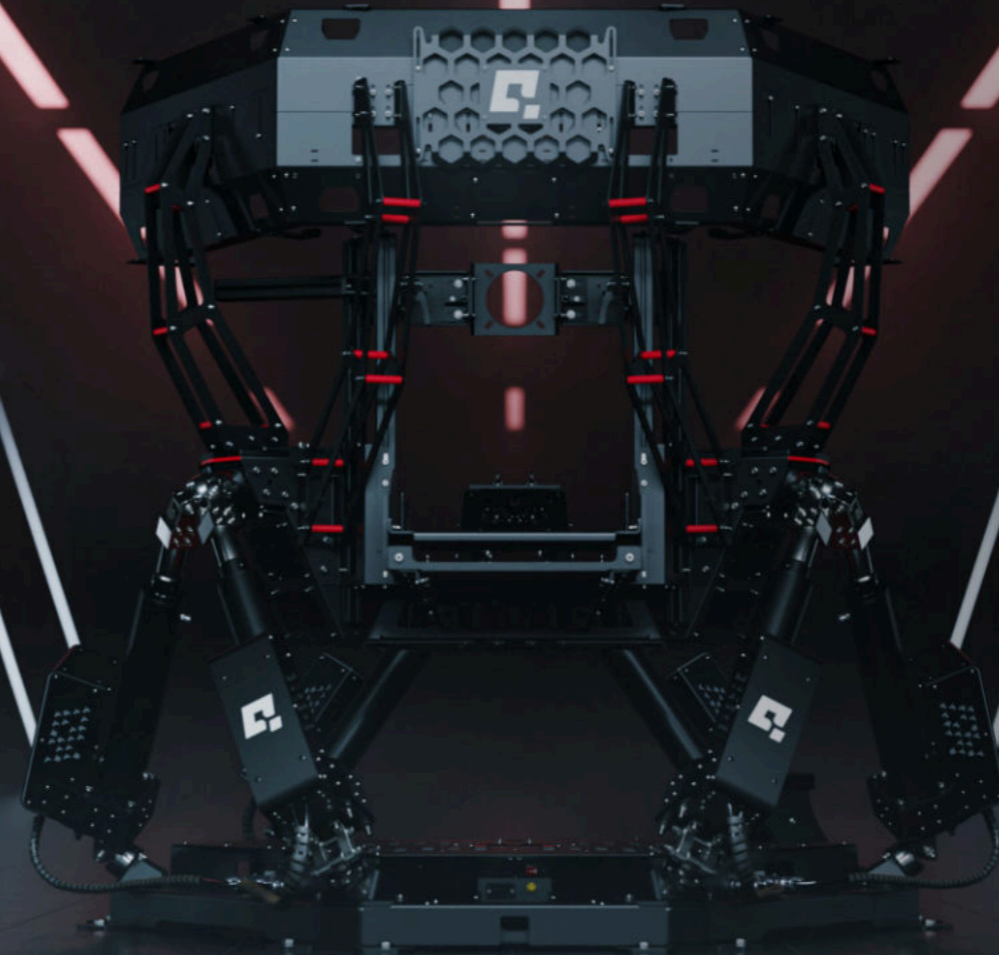
QS-S35
6DOF MOTION PLATFORM

**EXPERIENCE NEXT-LEVEL
IMMERSION WITH THE
QS-S35 6DOF MOTION
PLATFORM**

The QS-S35 6DOF motion simulator redefines motion simulation with an unmatched combination of precision, power, and immersion. Its advanced 6DOF system and long-travel actuators turn even the most demanding simulation into a deeply authentic experience – bringing to life sensations once thought impossible.

With over 342 mm (13.46 in) of heave, sharper pitch and roll angles, and rapid response times, the QS-S35 lets you experience dynamic accelerations, weight shifts, and terrain or altitude changes as if you were really there. It's not just more motion – it's smarter, more refined movement that transforms both racing and flight simulation.

QS-S35
6DOF MOTION PLATFORM



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2025