

MOOG'S MOTION BASE DELIVERS THE MOST REALISTIC DRIVING EXPERIENCES

From racing driver training to vehicle development, Moog's range of motion bases offers the highest level of performance available in the industry.

MARKET



Motorsport Automotive Simulation

OTHER APPLICATIONS



Niche Automation Test

CAPABILITY



Global Focus Support Expertise Modelling & Simulation Training Field Service

THE CHALLENGE

Moog collaborated with leading motorsport simulator constructor, Base Performance Simulators UK (BPS), to provide ambitious international racing drivers with the most realistic single-seater driving experiences available.

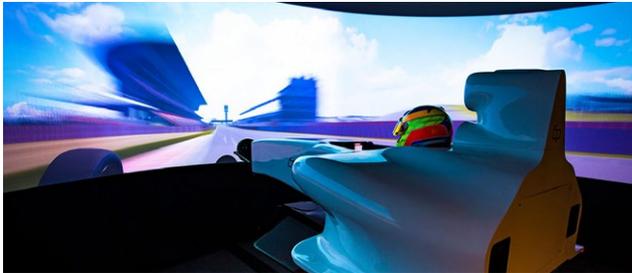
While BPS was able to replicate a highly authentic on-screen racing experience, Moog's technical skills were required to mimic every movement to create a simulator that provides a fully immersive driving experience.

THE SOLUTION

Moog is the world leader in the design and development of 6-Degree of Freedom (DOF) motion platforms and was chosen by BPS for this project because of its proven track record in providing globally recognised motorsport brands with Level-D specification simulators.

The resulting simulation unit developed by BPS incorporates a 12-inch Moog motion base, along with six-metre floor-to-ceiling wrap-around screens. Delivering six degrees of freedom, the Moog base (MB-E-DOF/12/1000KG) enables drivers to feel and respond to every movement, giving them an unparalleled replication of driving conditions across a huge range of car types and track configurations.

Technology and data enabled BPS to replicate a highly realistic on-screen racing experience, allowing drivers to race on world-class Formula 1 circuits as well as historic venues such Goodwood. However, without the addition of Moog's motion base, the simulator would not be able to mimic every movement, jolt and degree of turn, enabling drivers to derive the high level of replication and race-ready data they need to perform.



THE RESULT

The simulator has run constantly at over 130 hours per month since installation and is used by drivers from every class of motorsport, including established F1 teams, up-and-coming Formula Renault drivers, and keen semi-professionals within the ultra-competitive historic scene.

The combination of the simulator technology and the Moog motion base enables drivers to replicate their individual race setup, mimicking key aspects such as car control and handling, gear ratios and change options, to deliver the most realistic driving simulator experience ever created.

Contact us today to find out more about Moog precision motion control on 01684 858000