

***‘Creating innovative entertainment solutions through imagination & motion based technology’***

## FACT SHEET



motion based technology

## The ultimate, interactive, full-motion race car simulator with HMD (VR)



*Cesys’s interactive Hexatech Formula Style simulator– a ‘real’ single-seater race car tub on our advanced, electromechanical, 6-DOF motion system – proves that looks are important. Hexatech is the name for Cesys’s most sophisticated, professional motion technology. Matched with a sponsor-liveried car body to help create the most memorable experiences, attractions guests get the message loud and clear. Now with Head Mounted Display (HMD) for immersion in a overwhelming race experience!*

*Hexatech Formula Style Simulator*

### Key statistics

**Dimensions & weight:**

Static footprint: 2.80 x 3.75m  
Dynamic footprint: 3.75 x 4.25m  
Advised Min. ceiling height: 4.00m  
Weight: 2250 kg  
Dynamic floor-loading:  
1000 kg/m<sup>2</sup>

**Power:**

Voltage: 3-phase 400 VAC, 32 A  
Typical power consumption:  
5 kW  
Peak power consumption:  
22 kW

**Service and maintenance:**

No overhaul necessary.  
Annual maintenance costs: < € 5 k

**Price (ex. works) starting  
from € 195.000**

**Operation:**

Ride length: 5 – 10 minutes  
One operator for 4 simulators  
Throughput: 8 guests per hour

***Designed and built to  
EN 13814:2004 standard.  
UL/CSA /ADIPS /TUV certifications  
can be provided on request.***

## Design



*Top view of the Hexatech Formula Style*



*Side view of the Hexatech Formula Style*

## Cesys

Cesys is the entertainment division of Cruden. Cruden is the world's leading designer, manufacturer and integrator of professional driving simulators for the automotive, motorsport and marine industries. The knowledge and experience of Cruden is used to design, develop and produce high end, innovative entertainment simulators through imagination and motion based technology.

### **New: Combining VR technology with interactive motion**

Cesys is highly experienced in selecting the best and most appropriate visual solutions such as projection systems and LED displays. This use of the latest VR technology combined with interactive motion is unique in driving simulation. Driving the Cesys simulators with VR feels intense and extremely real. The immersion is a truly overwhelming experience.

## FAQS

### **Why would I choose a Hexatech Formula Style (half body) over a Hexatech Full Formula Style (full body)?**

The Hexatech Formula Style comes with a 'tub' or half body as opposed to the full car body that comes with Hexatech Full Formula Style. It all depends on the attraction that is being created. For many of our dedicated race simulation centre customers, who cater to both professional and amateur racers, it is system performance, rather than race grid looks that is the key attraction. They appreciate the cost saving on the hardware as well as the smaller footprint which allows more simulators to be acquired for linked-up racing. Another reason is that, as time goes by, a tub remains current whereas a full body can get dated, over the years, as specifications change. This could put off more knowledgeable motorsport guests.

### **How is the simulator shipped?**

Ready assembled, in one piece, in a container or on a truck.

### **What is the difference between Hexatech and a real F1 simulator?**

Basically, there is no difference. Hexatech is the exact same equipment as used by motorsport teams, including Formula One. Of course in motorsports the software options are much vaster, due to the large amount of data that needs to be processed, but even the essence of that has been translated into this simulator. Guests can have confidence that the main aspects of the motion – accurate motion-cueing, control loading and realistic force feedback – are the same used by their racing heroes to prepare for their next race.

### **Who makes the body?**

The body is designed by Cesys and produced by a specialist in preparing Formula One replicas. The cars have to be reinforced for use on a simulator as it's a much harsher environment and thus they need to be built to last.