

PULSEWORKS

Pulseworks, LLC 5100 Highlands Parkway, SE, Smyrna, GA USA

Telephone: 770.916.1722, Fax: 770.916.1933

E Mail: sales@pulseworks.com, Web: www.pulseworks.com

Morphis MovieRide Theatre Capsule Simulator



The Morphis MovieRide Theatre, 20 seat static capsule simulator.

Fixed and fully mobile versions are available.

(For mobile specifications see separate data sheet).

“Morphis™ is designed to capture the imagination...to create an attraction where people say ‘Wow, I need to ride that!’ and to generate *word-of-mouth* about their experience. The Morphis 20-seat simulator with its high motion performance and sleek, futuristic styling is ideally suited for museums, theme parks and entertainment centers, where it immerses its riders in virtual worlds, education, and adventure.



Morphis MovieRide Theatre Capsule Simulator

(fixed site)



Exterior Style

The futuristic, ergonomic exterior of both the capsule and the access stairs and surround are both stylish and expertly engineered combining the look and the ruggedness required for entertainment simulators

Interior Style

Passengers have ergonomically designed bench seats giving unobstructed views of the screen. The innovative design and styling simplify access and maximize comfort. Systems are available with circulated air as standard and the option of air conditioning.

Excellent Ride Choice and Quality

Systems come equipped with state-of-the-art digital video giving access to the simulation industry's biggest ride library including a large number of exclusive titles, available in the US only from the Pulseworks. Both 2D and the latest 3D (optional) ride films can be made available.

All capsules store the motion and visual data on a hard disc which enables the operator to easily select and/or change the ride. Up to ten rides can be easily accommodated

Safety and quality

Emergency stop buttons are located above each seat row and on the operator's control console. Battery back-up systems provide standby power to bring the capsule to rest and automatically open the doors in the event of a power loss.

Door interlock sensors prevent entrapment in the doors when closing. The system is manufactured to the highest US and European build standards.

Reliability and support

The Morphis uses a powerful 3-axis hydraulic system especially developed for entertainment purposes. This motion system gives maximum performance with minimum maintenance and has proved itself to be totally reliable. Equipment is supported by Pulseworks' customer support division.

Customer services include a complete spares service, regular technical updates, a 24 hour technical support hotline.

TECHNICAL DETAILS

Fixed equipment specification

1. Motion Operating Envelope

(capsule only)

Height	4.40m (173.2")
Width	3.35m (131.9")
Length	7.13m (280.7")

2. Control Console Dimension

Height	1.14m (44.9")
Width	0.58m (22.8)
Depth	0.69m (27.2")

3. Foundation Fixings

The motion base and power pack can either be fixed to a concrete foundation base with resin anchor bolts, or bolted to a free standing optional portable steel base. Pulseworks will advise on the grade and thickness of concrete required.

4. Installation Arrangements

Hydraulic power pack: can be mounted up to 10 metres from the motion base. **Control console:** can be mounted up to 5 metres from the front of the motion base as standard – for longer dimensions consult Pulseworks.

5. Weights

Motion System	2337kg (5153 lbs)
Capsule (loaded)	3200kg (7055 lbs)
Hydraulic power unit (empty)	1000kg (2200 lbs)
Control Console	125 kg (276 lbs)

6. Dynamic Loading

Max 89KN/m² 1800 lbf² (estimated)



Morphis MovieRide Theatre Capsule Simulator

Specifications

1. SPECIFICATIONS

Material GRP core laminate composite manufactured to BS476 Class 1.

Doors Fully automatic gull wing doors each side of capsule with entry/exit stairs leading to side of installation. The entry/exit door can be easily selected at the push of a button.

Seats GRP bench seats manufactured to BS 476 fire retardant specifications.

Climate control Chilled air unit suitable for indoor applications and outdoor temperate climates supplied as standard. Full air conditioning option available.

Lighting Fully automatic lights inside the capsule linked to central control console.

2. MOTION BASE DETAILS

Mechanism 3-axis roll, pitch and heave scissor style motion powered by 3 hydraulic rams controlled by high response proportional valves.

Painting All major fabrications in steel are zinc phosphate primed and painted to BS5493.

3. ENVIRONMENT

The motion base and capsule can be installed indoors or outdoors as all electrical items are suitably IP rated. The control console should however be housed in a secure weatherproof facility when the simulator is used outside or additional security is required.

Temperature

Capsule and motion system
Operating 0 to +45°C
Storage -20 to +60°C

Power pack (fixed equipment only)
Operating +5 to +45°C
Storage -20 to +60°C

Control Console (fixed equipment only)
Operating +5 to +45°C
Storage -20 to +60°C

For operating temperatures outside these limits, please contact Simworx.

4. ELECTRICAL SPECIFICATION

Voltages 380-415 volts, 3 phase, 50Hz. Equipment for other voltages and frequencies can be supplied.

Consumption Total consumption, including auxiliary motors, is as follows:
Running – between 40 and 75 amps. Typical consumption 40 amps per phase.
Standby mode – 30 amps.

5. VISUAL SYSTEM

Rear projection digital picture system. Ride film software is delivered via media file on hard disc. A full 3D system is available as an option. Flexible licensing periods available on ride films.

6. SOUND SYSTEM

System A Surround Sound (Multi channel surround amplifier).

7. SAFETY FEATURES

Emergency stop buttons above each seat row
Emergency stop button on control console
Emergency button on kiosk (mobile units only)
Mains power loss detector
Battery back up system
Fire/smoke detection in capsule
Door interlock system to prevent entrapment in doors when closing system
Computer controlled failsafe monitoring on all operating systems + limited diagnostics
Failure/operation of any of the above will initiate automatic safe controlled landing of simulator open both doors

8. OPTIONS

Spares Package	✓
Custom Rides	✓
Internal Microphone	✓
Internal low light camera	✓
Portable base	✓
Full air conditioning	✓
Touch screen control	✓
Theming (interior/exterior)	✓
Site Installation	✓
Hydraulic power unit Acoustic surround	✓
Stairs & Surround	✓
Fully mobile (See separate data sheet)	✓
2D/3D visual system	✓
4D effects	✓

9. INSTALLATION AND COMMISSIONING

Installation, commissioning and transport to site can be arranged by Simworx or authorised representatives.

10. TRANSPORTATION (fixed equipment)

The simulators break down into sub-units-capsule, motion base, power unit and peripheral equipment – for transportation on standard road haulage or containers.

11. CERTIFICATION

The simulator is manufactured to the highest European and US build standards including TUV