



ENT-4DBASE
4-SEAT 3DOF MOTION BASE

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Brand: TWT Technology

Model: ENT-4DBASE

Origin: Singapore

Product Overview

The ENT-4DBASE 4-Seat 3DOF Motion Base is a dynamic motion platform designed for immersive 4D/5D theater applications. Engineered to deliver smooth, responsive, and realistic motion effects, the system enhances audience engagement by simulating synchronized movement with cinematic content.

Using 3 Degrees of Freedom (3DOF) motion control, the platform provides vertical motion, forward/backward tilting, and left/right rolling effects to recreate realistic environmental sensations such as free-fall, vibration, and directional motion. It is suitable for integration into motion theaters, simulation attractions, and immersive entertainment venues.

Key Features

- 3DOF motion system for immersive cinematic simulation
 - 4-seat integrated motion base design
 - Smooth and powerful dynamic motion performance
 - Realistic free-fall sensation up to 1.44G
 - Integrated electro-hydraulic valve distribution system
 - Built-in oil sensing / monitoring function
 - Stable and durable base structure for floor mounting
 - Designed for professional 4D / 5D cinema applications
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Motion Specifications

Parameter	Specification
Motion Type	3DOF (3 Degrees of Freedom)
Seat Capacity	4 Seats
Heave (from center position)	0.2032 m total travel (-0.1016 m to +0.1016 m)
Pitch (from center position)	60° total (-30° to +30°)
Roll (from center position)	22.6° total (-11.6° to +11°)
Maximum Dynamic Force	Up to 1.44G

System Configuration

- SQR seat recognition system
 - LTC timecode synchronization
 - Universal joint coupling
 - Base frame with anchor bolt provision for floor installation
 - Low-noise pump valve
 - Directional electric motor
 - Voltage control valve
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Performance Description

The motion base is designed to create exciting and realistic movement effects with stable operation and synchronized response. Its multi-axis motion capability allows the audience to experience cinematic actions more vividly, improving immersion and enhancing the overall entertainment value of the venue.

The robust structural base supports convenient installation onto the floor, while the integrated motion control and hydraulic distribution components ensure dependable operation in professional theater environments.

Applications

- 4D Cinema
 - 5D Cinema
 - Motion Simulation Theater
 - Immersive Entertainment Systems
 - Theme Park Motion Attractions
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Technical Advantages

- Realistic multi-directional motion effects
- Stable and synchronized performance
- Professional cinema-grade motion solution
- Easy integration with show control systems
- Reliable structure for long-term commercial operation

**** picture as reference, actual product might be different at the time production ****



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