

Electric Motion System Three Degrees of Freedom Model 710-3

Applications:

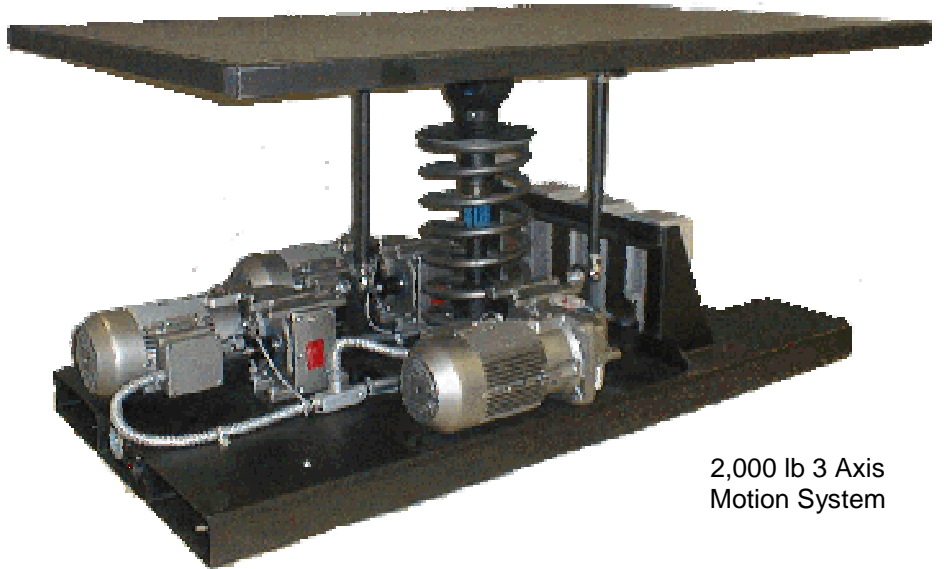
- ◆ Entertainment Rides
- ◆ Simulators
- ◆ Training Systems
- ◆ Medical Research
- ◆ Test Systems

Features:

- ◆ Electric Actuators
- ◆ Optional Computer Control
- ◆ Position Information Available
- ◆ Operates on 110/60Hz VAC or 220/50Hz VAC

Advantages:

- ◆ Low Cost
- ◆ Highly Reliable & Safe
- ◆ Quiet, Clean Operation
- ◆ Simple Maintenance
- ◆ Proven Design



2,000 lb 3 Axis
Motion System

Typical Installations:

- Mountain Bike Thrill Ride at 1996 Olympics
- T-34C U.S. Navy Fight Simulator
- Gunboat Simulator
- Trotting Horse Simulation Platform (6 Pax)
- Zero Gravity Simulator
- Magnetically Levitated Train Simulator
- Cabin Motion Ride Experience
- Armored Personnel Carrier Simulator

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HIGH TECHNOLOGY ENGINEERING

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Mechanical:

Payload Weight:1,000, 2,000, or 4,000 lbs. models available.
Payload Center of Gravity:.....Centered directly over the main support post
Overall Size:
Motion Platform:.....72" L x 48" W typ. (other sizes on request)
Floor Frame:72" L x 48" W typ.
Height:shortest is 19" nominal, tallest is 24" nominal
Weight:3000 lbs.

Dynamics:

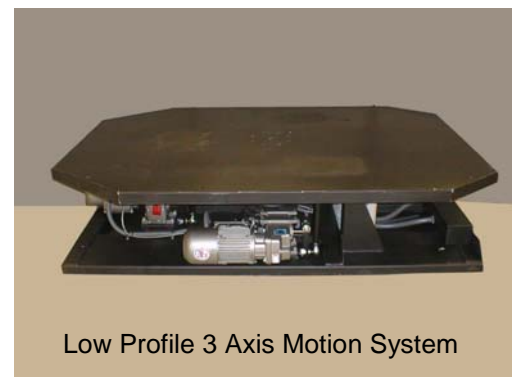
Maximum Vertical Translation :.....±4 inches standard
Maximum Vertical Velocity:.....13 inches per second
Maximum Vertical Acceleration:.....0.4g
Maximum Pitch Angle:±18 degrees
Maximum Pitch Velocity:.....60 degrees per second
Maximum Pitch Acceleration:.....300 degrees per second² (typ)
Maximum Roll Angle:.....±18 degrees
Maximum Roll Velocity:60 degrees per second
Maximum Roll Acceleration:300 degrees per second² (typ)

Electrical System:

Drive signals.....3 required; ±7.5 VDC for full scale actuator deflection
Motors:3 x 1/2 to 5 Hp vector driven AC gearmotors (dep. on payload)
System Power:115 VAC 50/60 Hz, 1 Phase, 30 amps to 230VAC, 50Hz, 3
.....Phase dependent on payload
Connectors:Industrial quality electrical connectors

Options:

- PC Controller
- Motion Profile Software
- A/D - D/A Converter Cards
- Fail-Safe Brakes for Motors
- SMPTE Code Reader Card
- Joystick
- Custom Size Upper Platform



Low Profile 3 Axis Motion System

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