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**TRUE Q**  
DYNAMIC MOTION SEAT

For  
**EH-101**

Helicopter  
Simulators



ACME True Q® Dynamic Motion Seats look, feel and function just like the actual helicopter seats. All the motion components are inside the seat. The seats translate simulator acceleration signals into realistic, convincing motion cues that emulate the forces and sensations felt in flight.

True Q® Dynamic Motion Seats provide full-motion cueing without the need for expensive, gigantic motion platforms or shaker systems. Cues are provided right to the pilot's body. And, because the motion seat plates provide pressure as well as motion, both onset and sustained g-cues are emulated. Sustained g-cues are just not possible with platforms and shakers.

**PATENT # 8827709 E1**

# EH-101

DYNAMIC MOTION SEATS

- 1 - Back Pan Tilt
- 2 - Back Pan Surge
- 3 - Seat Pan Tilt
- 4 - Seat Pan Heave
- 5 - Active Harness



### Power

Uses  
120/208 VAC 60HZ  
or  
230/400 VAC 50HZ  
30-Amp Circuit

10 Amp Typical/15 Amp  
per Phase

### Dimensions

Seat Height: 47.6" from  
base of deck plate to top of  
headrest

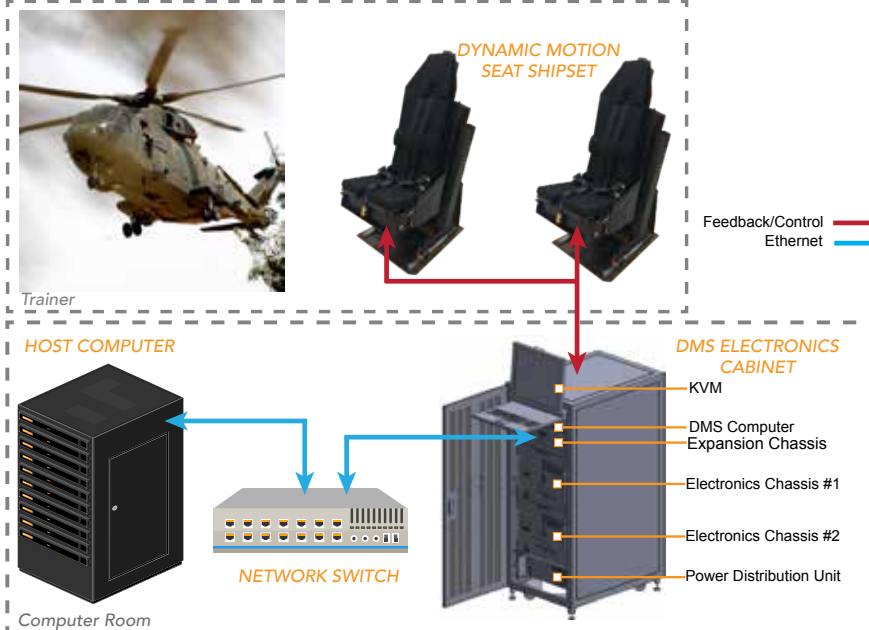
Seat Width: 16.3"

Seat Depth: 35.4.1" from  
front edge of seat pan to aft  
deck plate.

Seat Weight: 200 lbs.

## MULTIPLE MOTION CHANNELS

### EH-101 DMS System Overview



## COMPLETE COTS SYSTEM - NO NRE

Complete EH-101 Dynamic Motion Seat System includes the seats, computer, electronics, and cables to drive the seat.

A single DMS Computer controls Pilot and Copilot seats or just a single seat.

System includes ACME's intuitive DMS Manager Application and executable software and firmware.

Simple Ethernet interface to the simulator host computer system. DMS provides seat status and host provides acceleration signals for the seat computer.

Supported with Interface Control Document, Operations & Maintenance Manual, Acceptance Test Procedures, and a standard, 1-year factory warranty.

Can be equipped with sliding, outboard replica armor plates