

# TRUE Q®

## DYNAMIC MOTION SEATS



# AH-12

for *Helicopter  
Simulators*

### DYNAMIC MOTION SEATS

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.

Dynamic Motion Seats provide full-motion cueing without the need for expensive, gigantic 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)

# TRUEQ<sup>®</sup>

## DYNAMIC MOTION SEATS



### AH-1Z for Helicopter Simulators

Complete AH-1Z Dynamic Motion Seat System includes the seats, computer, electronics, and cables to drive the seats.

A single DMS computer can control both the Pilot and Copilot seats (a shipset) in a single simulator or a single, stand-alone Pilot seat.

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

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

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

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



**MULTIPLE MOTION CHANNELS**

#### AH-1Z DMS System Overview



Trainer

DYNAMIC MOTION SEAT SHIPSET



Feedback/Control —  
Ethernet —

HOST COMPUTER

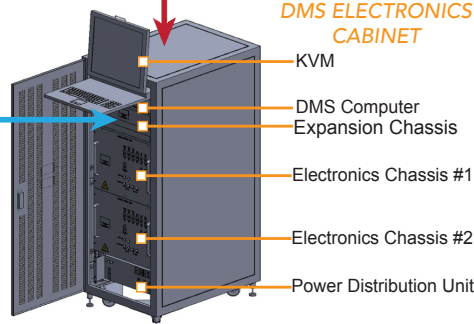


Computer Room



NETWORK SWITCH

DMS ELECTRONICS CABINET



- KVM
- DMS Computer Expansion Chassis
- Electronics Chassis #1
- Electronics Chassis #2
- Power Distribution Unit

#### POWER

Standard US or European 3-phase power

Call for custom power requirements

- CE Compliant
- 1-Year Warranty
- IA Compliant Computer Systems
- Standard Ethernet Interface

**COMPLETE COTS SYSTEM - NO NRE**