

CAE True™ Electric Motion System

The CAE True™ electric motion system is a state-of-the-art, all-electric motion system developed in partnership with control system expert Moog FCS. The CAE-Moog system, which is available to civil and military customers, provides more accurate and authentic motion cues for pilot training than legacy hydraulic motion systems.

Other benefits include reduced overall simulator operating costs through lower energy consumption and less scheduled maintenance. Facility complexity is reduced by avoiding the expense of a hydraulic power unit room, and eliminating the risk of contamination and the expense of hazardous waste disposal. Overall, the CAE True electric motion system is more environmentally-friendly than either hydraulic or hybrid electric-hydraulic motion systems.

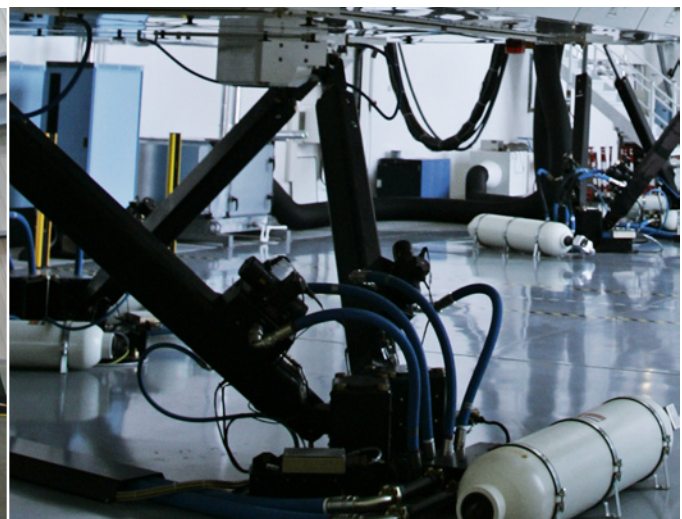
The CAE True electric motion system includes CAE's field proven, true-fidelity motion cueing software to maximize the responsiveness and fidelity of the electric actuators. In addition, CAE and Moog FCS have designed safety protection features which meet the strictest international standards.

Features

- Level D qualified.
- Sharp cues for maximum responsiveness and motion fidelity.
- Low annual power consumption (average 12 kW versus 48 kW for hydraulic).
- Fail-safe return-to-home system, with self-contained battery backup in case of power failure.
- Reliable solution with 20 year bearing life based on measured training duty cycle.
- No hydraulic power unit and associated hydraulic plumbing.
- Maintenance-free hydraulic snubbers.
- 32,000 lb payload capacity to accommodate large full-flight simulators.
- Virtually silent operation reduces ambient noise in the simulator hall.



CAE True™ Electric Motion System



CAE Hydraulic Motion System



Customer benefits

- Field proven solution.
- More realistic training environment.
- Operational power consumption reduction of more than 30 kW compared to hydraulic systems, resulting in cost savings of up to 75 percent.
- Safe operation.
- No hazardous oil management and related maintenance.
- Simple installation, operation and maintenance.
- Environmentally-friendly solution.
- Lower insurance risk translates into improved premiums.



Electrical Motion Cabinet

- Cabinet includes power amplifiers and control circuitry
- No special room required (No HPU)
- Size: 144 in. x 84 in. (3.66m x 2.14m)



8585 Côte-de-Liesse
Saint-Laurent, Québec
Canada H4T 1G6

Tel: +1-514-341-2000 ext. 3876
Fax: +1-514-340-5397
simequipment@cae.com