# G-SEATS

High realism and simulation capabilities for fighter and helicpter G-seats

Typically incorporates 4 actuation channels driving electrical units that are invisibly mounted in the seat to comply with visual fidelity requirements. These channels are combined with a shoulder and lap belt tensioning system and are driven by high response brushless DC motors.

Every G-seat system is designed in close collaboration with our customers to ensure compliance to the demanding performance specifications, visual fidelity requirements and subjective tactile cueing of high-end training simulation.
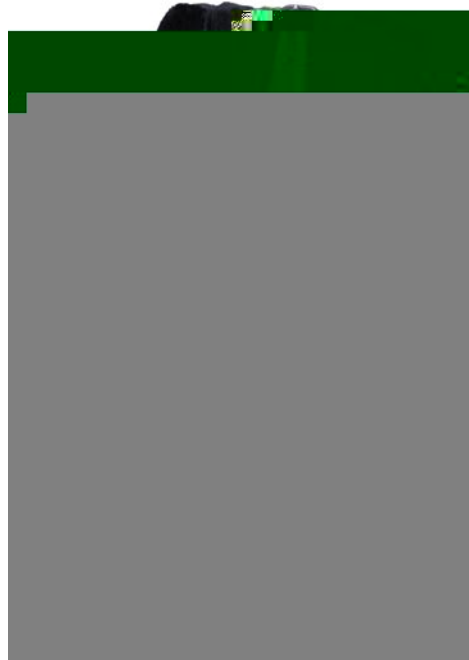
ADVANTAGES

• The actuation can be extended to a 9 channel system to drive harness and leg straps individually and incorporate roll in the seat pan element.

• Simulates positive and negative G-forces by changing shape of the seat pan, altering the tension on the seat harness straps and raising or lowering the height of the seat bucket. The seat is controlled from its own control system, which responds to real-time software via Ethernet.

• Simulates positive and negative accelerations on the pilot body induced by aircraft movement in surge, sway and roll.

• Rotary wing simulation benefits from the high-performance vibration cues generated in all linear degrees of freedom.

G-SEAT APPLICATIONS

Moog G-seat solutions can be used in the following applications:

• Fighter

• Helicopter

• Vibration seats

• G-suit systems

MOOG

Moog brings years of motion cueing expertise to a number of challenging applications. From leading-edge G-seats to high-performance G-suit systems, our team of design engineers are available to help tailor a high fidelity solution that will meet your exact simulation needs.

FIGHTER G-SEAT

Moog G-seats are used around the world