

# G Seats

Highly effective training experience without the size and cost of a moving base simulator.

## Benefits

- *State-of-the-Art Training Technology*
- *Affordable*
- *Reliable*
- *Compact*
- *Custom and Standard Solutions for Any Requirement*



## Key Features and Advantages

- *Fighter Jet and Helicopter Variants*
- *Highly Accurate Motion Cueing*
- *Electrically Actuated COTS Technology*
- *Low Latency*
- *Motion Cueing System Available Separately*
- *Roll, Heave, Sway and Surge*
- *Independent Shoulder and Lap Tensioning*
- *Buffet*
- *High Bandwidth, Displacement and Rate*
- *Ethernet Connection*



# Design Specification

## P.01.03.02 – G Seat

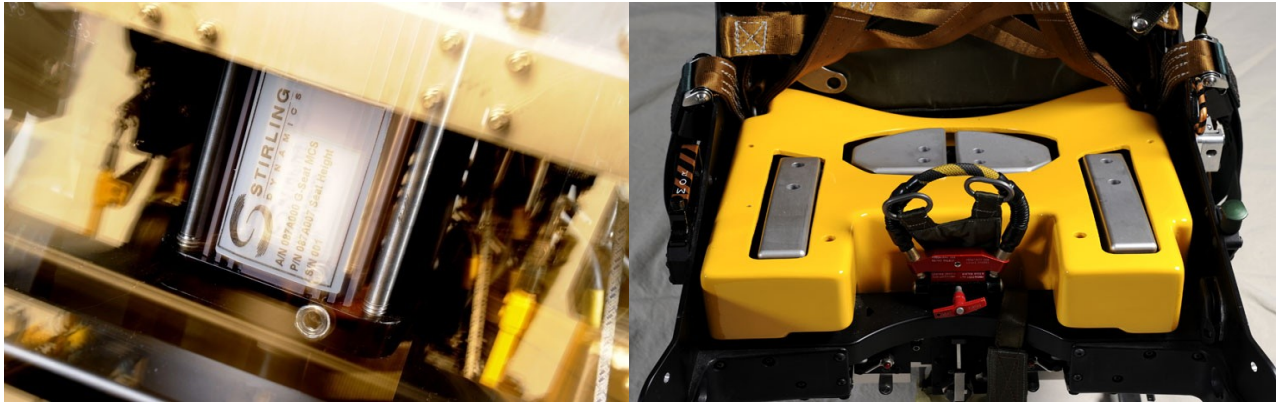
- Operating Load
  - Up to 115kg (equivalent pilot mass)
- Latency
  - Total demand-to-output latency, inclusive of (1/60s) system frame time is less than 50 ms
- Reliability
  - MTBF calculated (actuation system) = 7,100 hours
- MTTR (actuation system)
  - Less than 30 minutes

Axis	Displacement	Velocity	Acceleration
Seat Pan Roll L/R	38 mm (1.5")	125 mm/sec (4.9"/sec)	0.5g
Seat Pan Heave	38 mm (1.5")	125 mm/sec (4.9"/sec)	0.5g
Backpad Sway	28 mm (1.1")	300 mm/sec (11.8"/sec)	1.0g
Backpad Surge	35 mm (1.38")	120 mm/sec (4.7"/sec)	0.5g
Seat Height	145 mm (5.71")	650 mm/sec (25.6"/sec)	1.5g

Axis	Displacement (movement of seat)	Frequency
<b>High Frequency Buffet</b> Seat Height	0.15 mm (0.006")	Up to 50 Hz
<b>Low Frequency Buffet</b> All axes	1 mm (0.039")	<8 Hz

## Software

Window based maintenance software is provided with this system to enable the user to conduct system testing and diagnosis. The software also provides BIT functionality and position command functions as standard.



## Contact Details

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For more information on Stirling's G Seat Technology, then please visit our website: [www.stirling-dynamics.com](http://www.stirling-dynamics.com)

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