

G-LAB MOTION PLATFORM

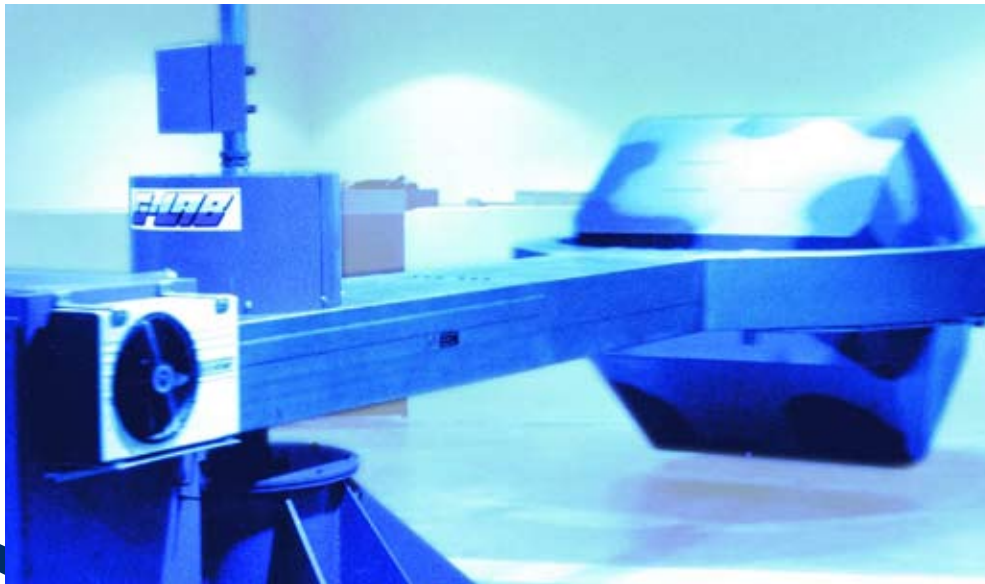
The G-LAB High Performance Human Centrifuge is designed to serve as a safe, economical research and training device to realistically demonstrate, and investigate the physiological effects of acceleration as experienced in high performance aircraft.

The G-LAB's capability of generating up to 15 Gz supports pilot high G training and human research and instrument testing up to and beyond the performance capability of most present day aircraft. The G-LAB is equipped for use in both civilian G research and military research and training applications.

Acceleration stresses can be produced under controlled conditions in the G-LAB via pre-programmed, accurately repeatable profiles to ensure consistent pilot exposures to varying G levels. This capability ensures repeatable training and research as well as proper and controlled aircrew screening.

The G-LAB utilizes a three-dimensional, high-resolution, computer-generated image system for real-time exercises and simulation of in-flight maneuvers. Since the G-LAB uses computer control for its profiles, individual scoring of students is possible. Additionally, instructors can program their own profiles to meet specific current and future training needs.

The G-LAB has the capability to perform rapid G-onsets and can sustain a commanded G level through either manual operation or during a pre-programmed training profile. This permits the practice of the Anti-G Straining Maneuver (AGSM) and/or positive pressure breathing (breathing techniques) while under dynamic or sustained high-G loads. In addition, an anti-G suit supply valve allows the demonstration as well as practice of the AGSM while the pilot is wearing a customer-supplied anti-G suit.



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APPLICATIONS

Training

- Anti-G Straining Maneuver practice
- G Tolerance
- Introductory G Training
- Refresher G training
- Positive pressure breathing practice

Research

- Acceleration research
- Component and equipment G exposure

BASIC PERFORMANCE SPECIFICATIONS

- Sustained G level up to 15 G radial acceleration
- Maximum G Onset Rate (approximate) 8 G/sec from 1.2 G (idle level)
- Radius of rotation 6.1m (20 feet)
- Payload capacity up to 318 kg (700 pounds)
- Service Life of approximately 30 years

ADVANTAGES

- Cost effective
- Long life cycle

ADDITIONAL EQUIPMENT FEATURES

- Medical Monitoring
- CCTV and VCS
- Single seat with control stick
- Man rated, redundant safety system

VISUAL DISPLAY SYSTEM

- Computer generated HUD, forward out the window scene
- Aircraft tracking ability

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