

The National AeroSpace Training And Research Center



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PHOENIX CENTRIFUGE

The PHOENIX Centrifuge is the World's most high-fidelity flight simulator. It has the exclusive ability to simulate any phase of flight with acceleration, vibration and multi-axes orientation, and real-world displays and controls.

The PHOENIX Centrifuge provides pilots, passengers, and crew with a safe, ground based, realistic training environment. It provides same physiological stresses encountered during actual flight, which enables optimization of in-air skills and techniques.



PHOENIX CENTRIFUGE

APPLICATIONS

- Space Training
- Civilian Training
- Military & High G training
- High risk maneuvers training
- Nominal/off-nominal trajectory scenarios
- Mission rehearsal & planning
- Human performance and assessment under G

SPECIFICATIONS

- 25 foot arm
- Maximum G Level: 12 Gs
- Onset Rate: 10 G/second
- Maximum Payload: 1200 lbs
- 3 fully controllable axes with continuous 360° pitch and roll
- BIOPAK medical monitoring equipment
- Pressurized oxygen and breathing air
- Anti-G suit connections
- Closed Circuit Television (CCTV) video capture & recording
- Multi-channel voice communication system
- Interchangeable air/space Cockpit Modules
- 120° x 70° Field of View & real-world visual display
- Configurable flight profile editor

VALUES

- Optimal learning and training transfer to real aircraft or spacecraft
- safe and controlled setting in initial and refresher learning
- Safely explore air/space craft performance envelope with various configurations
- Data linking capability to Cockpit Modules or other simulators via HLA
- Understand and model both human and vehicle limitations in extreme flight environments
- Reduce risk and extend aircraft service life from initial and refresher training

