ATFS-400
Centrifuge-based Tactical Flight and G Trainer

The ATFS-400 dynamically generates G-forces in any direction simultaneously to authentically replicate the stresses of the tactical flight environment. The system leverages simulation capabilities to recreate any training scenario and offers interchangeable cockpits for customer-designated aircraft. With aviation and space training applications available, along with high definition and night vision compatibility, the ATFS-400 provides the ultimate versatility in a simulator.
The G-LAB is a basic, cost-effective acceleration physiology trainer that replicates the G performance levels and research needs of today’s fifth generation aircraft. This legacy system has been effectively meeting the acceleration physiology training needs of armed forces worldwide for more than 30 years, including USAF and Navy.
GYROLAB GL-4000
SD, Upset Prevention and Recovery Training, Flight Training

The ideal training device for spatial disorientation (SD), upset prevention and recovery training, motion desensitization and flight training. Available in fixed or rotary-wing configurations with single or dual seat cockpits, the GL-4000's unique motion architecture provides sustained G cues and unlimited rotation in all axes to authentically replicate several SD and upset recovery situations. Its reconfigurable cockpits and scalable fidelity meet a vast range of training needs.

KRAKEN
The world's most advanced spatial disorientation device.

The KRAKEN's unique capabilities include concurrent motion in planetary, pitch, roll, and yaw as well as vertical and horizontal, thus providing simultaneous motion cueing for STOVL, V/STOL and VTOL training and research initiatives. Its wide field of view, real-world visuals and reconfigurable cabin create an ideal platform for cutting edge clinical research into complex human factors issues for all types of aircraft as well as research into vestibular functioning, human interpretation of orientation percepts, attention management, and decision making and skill selection in a dynamic environment.
GYRO IPT-II

Cost-effective Physiology Trainer

The most cost-effective physiology trainer available on the market, the IPT-II offers a variety of training applications for pilots at all levels of competency. Its scenario editing capabilities provide the flexibility to satisfy a wide array of training requirements. The IPT-II is currently being utilized at all USAF AETC bases across the USA for its SD training program.

GAT-II

Provides a realistic training environment for a generic or customer-designated fixed or rotary wing aircraft. The three-axes motion system provides pitch, roll and continuous yaw motion.

GYRO IPT-III

This cost-effective simulator is offered in custom, aircraft specific, fixed and rotary wing cockpit configurations with an extensive selection of aircraft specific flight models. It is the ideal situational awareness training environment for upset recovery and SD training.
The FALCON is ideal for training and research applications that require rapid altitude, temperature or humidity changes and varied oxygen concentrations. The system provides a selection of options to enhance functionality such as automated hypoxia evaluation, reactor management, medical monitoring and data acquisitions systems. It also offers an integrated reduced oxygen breathing capability to reduce operational costs and enhance training efficiency.
AUTOMATED PSYCHOMOTOR ASSESSMENT SYSTEM (APAS)
An individual handheld wireless device for student use during hypoxia demonstrations with embedded psychomotor tasks.

AUTOFLIGHT CONTROL SOFTWARE
An advanced, multi-lingual, and user-friendly software that provides environmental and atmospheric control of the chamber.

CADO TRAINING
ETC’s hypobaric chambers provide total flexibility for initial qualification and refresher altitude physiology training methodology. Aircrew can be trained traditionally by evacuating the chamber to a simulated altitude or with Combined Altitude and Depleted Oxygen (CADO) capability. ETC’s integrated breathing air system supports CADO training for an authentic and safe mask-on hypoxia training.
Night Vision/Night Vision Goggle Training Systems

The NVTS/NVGTS provides specialized training in both unaided and aided night vision to reduce hazards and increase efficiency in night operations. It integrates two systems to train for safe, effective night flying. The NVTS teaches students how to optimize their ability to see at night with unaided eyes, while the NVGTS is used to demonstrate the appropriate use of NVGs and strategies for maximizing effectiveness and safety in aided night flying. The NVTS/NVGTS includes built-in features to enable customized training for pilot groups that is configured for their operational needs.

Pilot Selection System

The Pilot Section System (PSS) is an integrated testing program used to determine whether pilot candidates possess the required aptitude, skills and abilities necessary for becoming a pilot. The system and test methods are configured to evaluate a large number of candidates in a short period of time and are culturally adapted. The PSS assesses a pilot's personality, psychomotor skills and ability to effectively manage their conscious attention in a dynamic flight environment using a specialized simulator. The system provides the customer with an economical and reliable means of carefully screening flight candidates while saving valuable training resources.
Ejection Seat Simulator

ETC’s Ejection Seat Simulator (ESS) is a major breakthrough in ejection trainers. The ESS provides up to 10G of acceleration and supports enhanced interactive, pre-ejection and ejection procedures training. The ESS also supports “decision to eject” training with flight simulation ejection profiles.

Also Available

Water Survival
Includes: helicopter egress, parachute drop and disentanglement, drag and helicopter rescue hoist training equipment for use together or individually. These systems provide training in critical skills that aircrew will need in the event of an over-water egress.
ETC will help in designing customized aeromedical training centers to house a suite of ATS products that provide training solutions for the specific needs of aircrew training organizations and militaries. Aeromedical centers can include any combination of aeromedical equipment.

Pictured below: the Korean Aerospace Medical Training Center in Cheongju, South Korea. This state-of-the-art facility includes ETC’s ATFS-400, hypobaric and hyperbaric chambers, GYROLAB GL-4000, GYRO IPT II, Night Vision/Night Vision Goggle Training System and an Ejection Seat Simulator.

The AeroMedical Training Institute (AMTI) provides training for pilots and aeromedical instructors at the customer’s site or at ETC’s comprehensive aeromedical training facility, the National AeroSpace Training And Research (NASTAR) Center in Pennsylvania, USA.
ETC’s Integrated Logistics Support (ILS) provides on-site operation, maintenance and service of flight simulators and training systems made by ETC or other manufacturers. The ILS group can also provide system upgrades for a range of equipment.