

ACES 5™
The next generation ejection seat



F-22



F-35

ACES 5™

The Next Generation Ejection Seat



The latest addition to the Goodrich family of the Advanced Concept Ejection Seats is the ACES 5™. The ACES 5™ incorporates several safety and cost saving upgrades to the ACES II®, the most successful aircrew escape system in Air Force history. The ACES II® is credited with saving over 600 lives since it was introduced in 1978.

Goodrich engineers have taken existing technology from the legacy ACES and the ACES II Modular to the next generation with the modular ACES 5™. Additional accommodations and safety features are combined with the modular features to simplify routine maintenance and enable maintainers to get the aircraft back into service quickly.

The ACES 5™ was specifically designed to enhance the pilot's effectiveness by providing passive leg and arm restraints, as well as head and neck protection in a passive manner which means without lanyards, straps, or other modifications to the pilot's flight equipment.

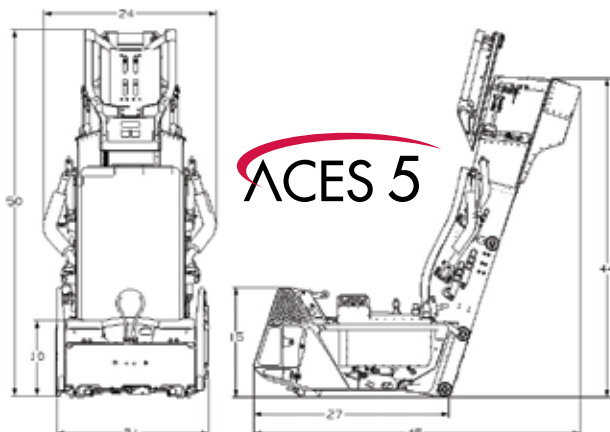
The ACES 5™ has been thoroughly sled tested proving performance capability, high reliability, and low risk implementation for today's advanced aircraft.

The ACES 5™ ejection seat is distinctly different from its predecessor in many ways. Most notable is the modular seat structure designed to enhance its maintainability by improving overall access to the internal components of the seat, including the inertia reel and restraint system. The seat bucket itself can be removed while the rest of the seat remains installed in the cockpit. Alternatively, the entire seat can be removed from the cockpit without removing the canopy or access panels/hatches.

PERFORMANCE ENVELOPE

- Speed: Zero airspeed to 600 KEAS
- Altitude: Zero to 60,000 feet

Electronic sequencing provides optimum performance at all altitudes and airspeeds balancing minimum recovery altitude and injury potential.



AVAILABLE FEATURES:

- Passive head and neck protection exceeds F-35 (JSF) requirements without requiring added aircrew worn equipment for smaller aircrew
- Passive leg and arm restraints
- Modular structure
- Automatic height adjusting headrest
- FAST drogue system provides improved high speed stability
- Accommodates JSF Cases 1-8
- Worldwide logistics and support with over 26 air forces
- Common CAD/PAD with thousands of fielded ACES II® ejection seats worldwide
- Stability Package (STAPAC) active pitch stabilization system
- Totally redundant initiation and sequencing system for all seat functions for unsurpassed reliability
- Proven mortar deployed parachute
- Digital recovery sequencer
- Compatible with standard U.S. military aircrew interfaces
- Compatible with USAF and USN Personnel Flight Equipment (PFE)
- Large survival kit volume (1,300 cubic inches)
- Provides same multi-mode superb performance, proven with over 600 life saving ejections
- Only Berry Amendment compliant ejection seat available, without waivers



ACES 5™ Back Module



ACES 5™ Bucket Module



ACES 5™ Survival Kit Module



ACES 5™ Parachute Module

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