

EJECTION SEAT SIMULATOR

The Ejection Seat Simulator (ESS) is a multi-functional simulation platform that enables a pilot to experience and train through the entire sequence of events from an aircraft emergency to seat ejection.



AIRCREW TRAINING
SYSTEMS



EJECTION SEAT SIMULATOR

A SUCCESSFUL EJECTION IS A CONSEQUENCE OF A SERIES OF EVENTS THAT NEEDS TO BE ACCOMPLISHED BY THE PILOT, INCLUDING AIRCRAFT EMERGENCY HANDLING, EJECTION DECISION, AND FINAL PREPARATION FOR EJECTION. THE ESS CREATES A SEAMLESS, REALISTIC ENVIRONMENT TRANSITING FROM CONTROLLED FLIGHT TO EJECTION, ALLOWING THE PILOT TO BE TRAINED FOR THE MOST DEMANDING EMERGENCY SCENARIO.

COCKPIT

- Cockpit and seat customizable for specific training needs
- Interchangeable components for multiple aircraft compatibility
- Wide field of view imagery for realistic flight simulation

APPLICATIONS

- Ejection Seat Familiarization
- Pre-Ejection Emergency Handling
- Ejection Decision Making
- Ejection Procedures

SYSTEM CONTROL

- 10G acceleration and up to 100G/sec onset
- Ejection force calculated based on pilot's weight
- Pilot initiated or instructor initiated ejection
- Safety interlocks and sensors for safe ejections
- High-speed camera for post-ejection review



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