

Mk18

The MK18 takes the best and proven groups of leading sub-system technology from the MK16 family of qualified seats. The MK18 introduces passive arm restraint and seat pitch control. Optimized for cost through efficient manufacture and commonality of parts, spares and pyro. Common pyro with existing Martin-Baker USAF seats. Full spec compliance (MIL-HDBK-516C).



MISSING

SPECIFICATIONS MK18 Operating Ceiling up to 55,000ft (16,764m) Minimum Height/Speed Zero/Zero Crew Boarding Mass Range 103 to 245lbs (nude) Crew Size Mass Range JPATS multi-variate body size cases 1 - 8 Maximum Speed for Ejection 600 KEAS Parachute Type IGQ Type 8000 aeroconical 4-colour (less than 23ft/s decent rate) Parachute Deployment Sealed unit using ballistic gas and telescopic pistons, cartridge initiated with MOR back-up Drogue Parachute Yes, pressure packed for life Connected to seat via bridle assembly Sealed unit using ballistic gas and telescopic pistons, Drogue Deployment cartridge initiated Harness Type Torso Harness (compatible with PCU-15/P, PCU-16/P & PCU-56/P) Ejection Seat Operation Type Catapult and underseat rocket motor (USRM) Ejection Gun Twin catapult **Ejection Initiation** Handle on seat bucket initiates gas operated seat firing system Stabilization Stabilizing drogue bridle assembly Seat Pitch Management System (incorporating Pitch Rate Module, Sequencer and Rotating USRM) Modular Yes, for maintenance simplicity **Electronic Sequencer** Martin-Baker Sequencer (MBS), powered by thermal batteries Timers Time delays imposed by sequencer and Digital In-line Timers (DIT) Seat Adjustment Up/down actuator operated 28Vdc with 7.4" stroke Fore/aft manual tilt mechanism adjustment **Emergency Location Beacon** Yes, automatic operation at seat/occupant separation Head Restraint Yes, passive Neck Protection Device (NPD) Yes, Head Support Panel (HSP) Arm Restraint Yes, Passive Arm Restraint System (PARS) Leg Restraint Yes, Passive Leg Restraint System (PLRS) Oxygen Supply Bottled back-up/emergency oxygen Connection to main On Board Oxygen Generation System (OBOGS) Seat Survival Kit Yes, with automatic drop deployment Tree Escape Yes, fully compatible with in-service systems Aircrew Services Connection to main oxygen supply, mic/tel, anti G, thermal cooling Interface and quick disconnect to helmet and systems Pilot Flight Equipment Compatible with USAF and USN equipment Canopy Jettison Yes, compatible with current systems Canopy Fracturing System Yes, compatible with current systems Interseat Sequencing System Yes, hot gas signalling via mode selector

with three modes

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