

# Mk17

## Ultra Lightweight Escape System



The Martin-Baker Mk17 Ejection Seat is an ultra-lightweight, compact and simple design that has been specifically developed for optionally-manned aircraft and basic trainer aircraft where Seat weight and size are critically important.

The Seat will provide safe escape capability for aircraft speeds in the range 60 knots (at ground level, on the runway) to 250 knots calibrated airspeed (KCAS) and altitudes from sea level to 25,000 ft. Capable of providing safe escape for aircrew in the weight range 103lbs to 245lbs (47kg to 111kg) nude, the Mk17 escape system will provide safe means of escape from a basic training aircraft, a feature which hitherto has been unavailable.

Life cycle cost considerations are also a primary design driver, resulting in a Seat design with only 50% of the pyrotechnic device count of other modern ejection seats with minimal maintenance overhead.

- ▼ **Ultra Lightweight Design:**
  - 106lbs (48kg) Installed mass per Seat;
  - Compact and simple cockpit installation.
- ▼ **Ejection Performance:**
  - 60 – 250KCAS Ejection Performance;
  - Ejection altitude up to 25,000ft (7,620m);
  - Catapult provides through canopy ejection capability.
- ▼ **Aircrew Restraint:**
  - Mk17 features an integrated restraint harness with single point release;
  - MA-16 Harness inertia reel provides automatic locking if occupant forward velocity exceeds 0.6m/s or seat experiences 5g in any direction.
- ▼ **20 gore IGQ 5000 lightweight recovery parachute complete with;**
  - Steering lines to provide greater manoeuvrability;
  - 10 water pockets on alternate gores to provide rapid collapse capability for water landing.
- ▼ **Low Life Cycle Operating Cost:**
  - Only 6 pyrotechnic cartridges required, no rocket motors fitted;
  - Minimal maintenance overhead.
- ▼ **Large Accommodation Range:**
  - CAESAR Case 1 - 5 Accommodation Range;
  - Crew Boarding Range 112lbs - 275lbs (51kg - 125kg).
- ▼ **Qualification:**
  - Structural certification to EASA CS-23.561 and 23.562;
  - Environmental to MIL-STD- 810G;
  - CAD Qualification to MIL-C-83125;
  - BSTS Qualification to MIL-D-81980.
- ▼ **Seat Survival Kit:**
  - 400cu.in (6.5l) capacity for 13.2lbs of customer survival aids;
  - Optional emergency liferaft.
- ▼ **Aircraft Load Factors:**
  - 4g to +6g
  - Roll rates  $\pm 115$  deg/sec

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