



Martin-Baker

Mk 10 Generation



The Mk.10 seat is designed in four main units, catapult, main beam structure, seat bucket and parachute assembly. This greatly simplifies and speeds maintenance or cockpit access. The seat bucket can be rapidly removed to provide full access to the equipment in the cockpit without disarming or removing the seat main structure or aircraft canopy. In a similar way the seat can be rapidly installed or removed by assembly or disassembly of the main units in the aircraft. As the aircraft canopy is not removed, valuable maintenance time is saved.

The overall size footprint of the Mk.10 seat has been tailored to suit a large number of aircraft installations. This design envelope flexibility enables the seat to be perfectly matched to any existing or future cockpit space limitations without adversely affecting the primary design operation of the seat.

Operating ceiling	50 000 ft (15,250 m)
Minimum height/speed	Zero/zero in near level attitude
Crew boarding mass range	69.2 – 112.2 kg
Crew size range	3rd to 99th percentile, as defined in Survey of 2000 Royal Air Force Aircrew 1970/1971
Maximum Speed for ejection	630 KIAS
Parachute type	GQ Type 1000 Mk 2
Parachute deployment	Drogue assisted
Drogue parachute type	5 ft and 22 in.
Drogue deployment	Drogue gun. Initiated by trip rod
Harness type	Integrated
Ejection seat operation type	Ejection gun and multi-tube rocket pack
Ejection gun	Single, two stage
Gun stroke length	72 in.
Ejection initiation	Handle on seat pan initiates gas operated seat firing system
Barostatic time-release unit	Yes + g-restrictor. Initiated by trip rod
Manual override handle	Yes
Seat adjustment	Up/down Actuator operated 28 Vdc
Leg restraints	Yes, two garters
Oxygen supply	Bottled emergency oxygen Main oxygen system connection Yes, landscale
Personal survival pack	Personal Equipment Connector
Liferaft option available	- main oxygen
Aircrew services	- back-up oxygen
	- emergency oxygen
	- mic/tel
	- anti-g suit supply
Command ejection	Yes
Miniature detonating cord	Yes
Interseat sequencing system	Yes, through command delay breach unit



EJECTION SEAT