Specifications

- Operating ceiling: 50,000+ft (15,250m)
- Minimum height/speed: Zero/zero in near level attitude
- Crew boarding mass range: 61.0 to 133.5 kg
- Crew size range
- Maximum Speed for ejection: 600 KIAS
- Parachute type: GQ Type 5000
- Parachute deployment: Cartridge initiated
- Drogue parachute: Yes
- Drogue deployment: Cartridge initiated, electronic sequencer controlled
- Aerosurface deployment system: Yes, upper and lower. Lower is gas operated
- Harness type: Combined
- Ejection seat operation type: Ejection guns and underseat rocket motor
- Ejection gun: Twin
- Ejection initiation: Handle on seat pan initiates gas operated seat firing system
- Automatic back-up unit: Yes, barostat controlled
- Electronic sequencer: Yes, powered by thermal batteries
- Barostatic time-release unit: No
- Timers: No
- Seat adjustment: Up/down actuator operated 28 Vdc
- Arm restraints: Yes
- Leg restraints: Passive leg restraint system
- Oxygen supply: Bottled emergency oxygen
- Personal survival pack (PSP): Yes + automatic deployment and liferaft inflation
- Aircrew services: - breathing gas - NBC ventilation supply - mic/tel - anti-g trousers
- Liquid suit connector assembly
- Auxiliary oxygen bottle
- Yes
- No
- Yes, via mode selector

Mk16A Eurofighter

- 50,000+ft (15,250m)
- Zero/zero in near level altitude
- 61.0 to 133.5 kg
- Eurofighter specific crew size range
- 600 KIAS
- GQ Type 5000
- Cartridge initiated
- Cartridge initiated, electronic sequencer controlled
- Yes, upper and lower. Lower is gas operated
- Combined
- Ejection guns and underseat rocket motor
- Twin
- Handle on seat pan initiates gas operated seat firing system
- Yes, barostat controlled
- Yes, powered by thermal batteries
- No
- Time delay for canopy jettison
- Up/down actuator operated 28 Vdc
- Yes
- Passive leg restraint system
- Bottled emergency oxygen
- Yes + automatic deployment and liferaft inflation
- Aircrew services package, interface for:
  - breathing gas
  - NBC ventilation supply
  - mic/tel
  - anti-g trousers
- Head equipment assembly services module
- Liquid suit connector assembly
- Auxiliary oxygen bottle
- Yes
- No
- Yes, via mode selector

The development of the Mk16A ejection seat for the Eurofighter Typhoon was carried out at Martin-Baker's facilities at Denham, Chalgrove and Langford Lodge. Due to the capabilities and wide operating envelope of the aircraft, Martin-Baker was presented with a series of challenges which have had to be overcome during the development of the seat, such as the accommodation of a wider range of pilot models covering height and weight requirement, as well as achieving compatibility with equipment such as the Head Mounted Display (HMD), Chemical and Biological protection units (CB) and general aircrew equipment.

The Mk16A ejection seat utilises a second generation digital seat sequencer which incorporates a strategy of continuous sensing of external environmental parameters. Under certain speed and altitude conditions the recovery timings at which the parachute is deployed are varied in order to optimise the terrain clearance.