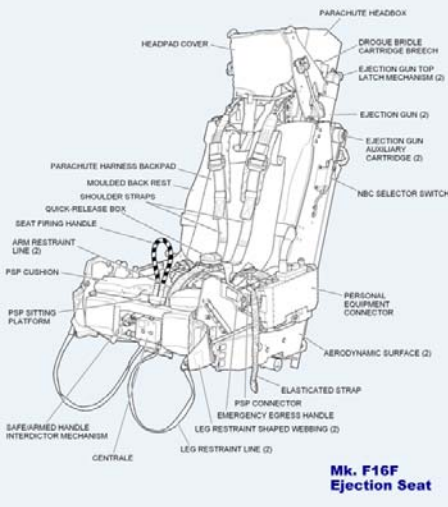


## Mk.F16F Seat - Rafale

New generation lightweight fighter aircraft, such as Eurofighter and Rafale, demand significant weight reduction for all their subsystems in order to achieve a lower aircraft total mass. The Mk.16 ejection seat achieves its remarkably light weight by combining the twin catapult outer cylinder tubes as both propulsion system and as the seat's primary structure. The Mk.16 ejection seat design optimizes pilot field of view, improves comfort and pilot efficiency, provides integration with OBOGS, chemical defence and helmet mounted systems. Reliability and maintainability have been key elements in the design, resulting in an escape system that has full component accessibility in the cockpit. Modular construction enables the seat to be safely removed or installed in minutes without removing the aircraft cockpit canopy. These and other design features will ensure that this new generation of ejection seat succeeds the Martin-Baker Mk.10 as the world's most popular escape system.



### SPECIFICATIONS



● Operating ceiling	65 000 ft (19,812 m)
● Minimum height/speed	Zero/zero in near level attitude
● Crew boarding mass range	63.5 to 106.0 kg
● Crew size range	French Air Force specific crew size range 3 - 98 percentile of estimated French pilot range in Year 2015)
● Maximum Speed for ejection	625 KEAS
● Parachute type	GQ Type 5000
● Parachute deployment	Cartridge initiated
● Drogue parachute type	Yes
● Drogue deployment	Cartridge initiated
● Aerosurface deployment system	Yes, gas operated
● Harness type	Combined
● Ejection seat operation type	Ejection guns and underseat rocket motor. Lateral thrust rocket motor (twin seat only)
● Ejection gun	Twin
● Ejection initiation	Handle on seat pan initiates gas operated seat firing system
● Automatic back-up unit	No, manual override available
● Manual sequencer	Mechanical mode selector, used in combination with Barostatic time-release unit
● Barostatic time-release unit	Yes + g-restrictor, cartridge initiated
● Timers	Drogue deployment unit timer
● Seat adjustment	Up/down actuator operated 28 Vdc
● Arm restraints	Yes
● Leg restraints	Passive leg restraint system
● Oxygen supply	Connection to onboard oxygen generating system Emergency oxygen cylinder
● NBC equipment	Nuclear, biological and chemical (NBC) ventilator
● Personal survival pack (PSP)	Yes + automatic deployment and liferaft inflation
● Aircrew services	Aircrew services package, interface for: <ul style="list-style-type: none"> <li>- breathing gas</li> <li>- NBC ventilation supply</li> <li>- mic/tel</li> <li>- helmet mounted display system interface</li> </ul>
● Command ejection	Yes
● Canopy jettison	No
● Canopy fracturing system	Yes, Canopy pyrotechnic cutting system
● Interseat sequencing system	Yes, via mode selector

### INSTALLATIONS

