

Mk16A NXG

Ejection Seat for Eurofighter Typhoon



Key Facts



Over 680 Mk16A Ejection Seats currently in service



4 lives saved to date using the Mk16A Ejection Seat



The Mk16A was purposely designed to meet the demanding requirements of the Eurofighter Typhoon specification in 1988. The twin-tube ejection gun enabled greater integration with the Typhoon cockpit while meeting the latest physiological requirements of the time.

The Mk16A NXG is a further upgrade of the Mk16A introducing technology developed for the US16E for F-35 programme. This enables safe ejection for aircrew equipped the latest helmet mounted displays (HMD) across the mass and size ranges.

Specification	Mk16A NXG for Typhoon
Operating ceiling	55 000ft (16,768m)
Minimum height/speed	Zero/zero in near level attitude
Crew boarding mass range	103lbs (46.7kg) to 245lb (111.1kg) (nude) light crew switch fitted mass boundary set at 150lbs (68kgs)
Crew size range	CAESAR multi-variate body size cases 1-6
Maximum Speed for ejection	600 KEAS
Parachute type	IGQ Type 6000 aeroconical 4-colour
Parachute deployment	Cartridge initiated
Drogue parachute	Yes
Drogue deployment	Cartridge initiated
Harness type	MG5 Integrated
Ejection seat operation type	Catapult and underseat rocket motor
Ejection gun	Twin catapult
Ejection initiation	Handle on seat bucket initiates gas operated seat firing system
Automatic back-up unit	Yes, mechanical system with barostatic time-release
Electronic Sequencer	Martin-Baker Sequencer (MBS) 23,500/18,000ft altitude switch, powered by thermal batteries
Timers	Time delays imposed by sequencer, ABU and CJS
Seat adjustment	Up/down actuator operated 28 Vdc with 5.9" (15cm) stroke Fore/aft manual tilt mechanism adjustment Tilt mechanism enables installation to aircraft with different bulkhead configurations
Arm restraints	Yes, active system Type II
Leg restraints	Yes, passive system
Oxygen supply	Bottled back-up/emergency oxygen Connection to main On Board Oxygen Generation System (OBOGS)
Seat survival kit	Yes + automatic deployment and liferaft inflation
Aircrew services	Connection to main oxygen supply, mic/tel, anti-g, thermal cooling Interface to helmet
Canopy jettison	Yes
Canopy severance system	No
Interseat sequencing system	Yes
Auto eject system	No

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Eurofighter Typhoon



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