

Ejection Seat & Aircrew Escape Test Facility

CAPABILITY SHEET - AIRCREW ESCAPE QUALIFICATION - MACHINE-ONLY, LIFE-SAFETY

THE FACILITY

WHAT	A test facility that qualifies aircrew ejection seats and escape systems on the ground - the last-resort system that saves a pilot. Machine-only, life-safety.
OUR ROLE	Neometrix engineers the rigs - drop tower, static and restraint rigs, thrust stand, sequencing controls; the dummies, cameras and data-acquisition are bought in.
STATUS	Engineered to order; sized to the seat and the qualification programme. No specific delivered facility is claimed on this sheet.

PROVE IT ON THE GROUND

FUNCTIONAL	A functional test verifies the escape sequence - drogue, recovery parachute, harness release, separation - its timing and interlocks, without a live ejection.
DROP + STATIC	A drop tower and static rigs qualify the seat structure, mounting and restraint to crashworthiness loads - the mechanical survival case, proven to standard.
NO LIVE EVENT	A live ejection is destructive and single-use; the facility proves each element repeatedly and measurably, so the escape works the first time it is used for real.

MEASURE THE OCCUPANT

OCCUPANT LOADS	Instrumented crash-test dummies measure head, neck and spine loads to injury criteria (DRI, HIC) - the seat passes only if the occupant would survive intact.
PARACHUTE + SUPPORT	The recovery parachute extraction, deployment and inflation, and the emergency oxygen and survival-pack functions, are function-tested.
CAPTURE	High-speed cameras and multi-channel data acquisition capture the event - measured in milliseconds - and the catapult thrust-time performance is measured on a stand.

SCOPE & ENGAGEMENT

LIFE-SAFETY	Aircrew life-safety qualification - the same register as our human-rated hyperbaric systems. Machine-only: instrumented rigs, not something that flies.
OVERHAUL TOO	The same rigs serve an overhaul line: a maintained seat gets a repeatable, documented functional acceptance before it goes back under a pilot.
ENGAGEMENT	Send the test scope and the standard to sales@neometrixgroup.com for a clause-by-clause compliance matrix in two working days.

DEFENCE PROGRAMMES DESK

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