

Rotorcraft Seating & Restraint Systems



Rotorcraft Seating Systems

From military folding troop seats to FAA-certified lightweight crew and passenger seats to Presidential VIP seating, BAE Systems is the provider of choice for helicopter operators worldwide. Since the 1975 introduction of the first successful military crashworthy crew seat in the UH-60 Black Hawk, we have earned the reputation as pioneers in aerospace crash safety and combat survivability. Our Platform Survivability team develops airframe and occupant armor, crashworthy crew, troop, passenger, and VIP seating systems, as well as air bag systems, all with the objective to protect aircraft occupants. BAE Systems' full range of lightweight composite, ceramic-composite, and transparent aircraft armor solutions are unparalleled in the industry and we are dedicated to providing innovative, life-saving products to the rotorcraft market.

BAE Systems Platform Survivability is:

- The Rotorcraft seat supplier of choice for the U.S. military
- The sole supplier of troop seats for the C-17 Globemaster transport aircraft
- The World-leading energy-absorbing seat designer for rotorcraft
- The key provider of comprehensive seats designed to meet customer requirements in weight, crashworthiness, comfort, and ballistic protection
- The award-winning supplier of leading-edge designs that incorporate adjustable recline, adjustable lumbar and thigh cushion support, monolithic ceramic armor for weight savings and ballistic protection

Years of testing and refined designing have resulted in seats for the world's most advanced rotorcraft. From warfighters to chief executives, BAE Systems' ergonomic, lightweight seating designs exceed the needs of the most critical helicopter passenger.

S Series Seating Systems

BAE Systems' S Series seating systems include the S3000 crashworthy rotorcraft utility seats, the S5000 energy-absorbing crew and passenger seats, the combat proven S7000 for military aviators, and VIP seating. BAE Systems' seating systems meet the most stringent FAA requirements and are fully qualified on platforms including BA-609, Bell 412, 427, 430, Eurocopter EC-145, VH-60, and the VH-71A.



High density S3000 troop seating



S5000 passenger seating



S7000 cockpit seats

Rotorcraft Restraint Systems

Since 1991, BAE Systems has been supplying major airplane and helicopter manufacturers with state-of-the-art SCHROTH® brand occupant restraint and buckle systems. More than 40 years of experience in dynamic testing and innovative designs make SCHROTH® the premier aviation buckle and restraint brand of choice.

BAE Systems' SCHROTH® rotorcraft restraints are lightweight with static or automatic systems and an innumerable selection of webbing colors and plating options. Available in all seat positions, BAE Systems' restraints are 2-, 3-, 4-, or 5-point certified according to ETSO/TSO-C-114 standards. BAE Systems can meet your needs through short production runs and offers AOG service. Our current line of crew and passenger restraints are in use today in leading helicopter manufacturers from around the world – Eurocopter, Agusta-Westland, Bell, Sikorsky, Robinson, Enstrom, MD Helicopters, Kazan, and Mil, among others.

Various styles of rotary buckles are available to exactly meet your requirements in the areas of function, safety, design, and ergonomics. BAE Systems' Water-Activated Buckle (WAB™) is a unique, life saving feature that increases survivability by automatically releasing after emergency water landing. The WAB™ is compatible with all SCHROTH® helicopter restraints.

Our special lightweight version of the well-proven SL 10 Lightweight Rotary Buckle is part of BAE Systems' SCHROTH® ultimate lightweight rotorcraft restraint system and is already being used on numerous helicopters throughout the globe. Together with our lightweight seats they generate substantial weight savings on any rotorcraft. As with all other SCHROTH® brand rotary buckles, the SL 10 Lightweight Rotary Buckle features the patented Regressive Force Release (RFR™) technology, which helps avoid the risk of accidental release through use of a patented actuator that reduces release force during release operation.



5-point restraint



SL 10 lightweight rotary buckle



Evolution of SCHROTH™ restraints from 1950's passenger cars to car racing and aviation.

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