

# S5000 Seating

## Lightweight, Energy-Absorbing Crew & Passenger Seat

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 the world's helicopter operators.

### Standard Features

- Typical seat weight ranges from 21 - 36 lb (10 - 16 kg) depending on seat features
- 3- or 4-point restraints
- Ergonomic cushion design
- Advanced Kevlar, carbon fiber composite construction
- Fire-Block foam



### Optional Features

- Headrest
- Armrest
- Vertical adjustment
- Horizontal adjustment
- Customized floor interface design and hardware
- Adjustable thigh and lumbar support
- Role Fit ballistic protection
- Leather upholstery
- 5-point SCHROTH™ restraints\*
- Choice of plating and restraint color
- Custom floor interface

\* Since 1991, SCHROTH™ has been supplying major airplane and helicopter manufacturers with state-of-the-art occupant restraint systems. More than 40 years of experience in dynamic testing and innovative design have made SCHROTH™ the premier aviation restraint supplier.

### KEY FEATURES

FAA approved

TSO-C127a certified


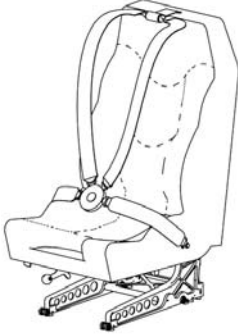
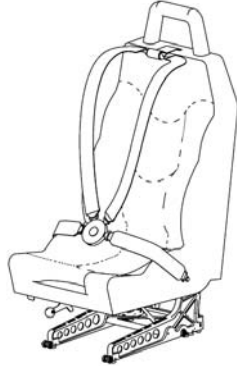


Meets 14 CFR 29.561 and 29.562 requirements for structural performance

Meets 14 CFR 29.853 requirements for flammability performance

STC certified for BK-117 C2 (EC-145)



## Seat Matrix

					
Part Number	108900-3	108900-5	108900-7	116510-1	116510-5
Weight	24 - 26 lb (10.8 - 11.8 kg)	24 -26 lb (10.8 - 11.8 kg)	25 - 27 lb (11.3 - 12.2 kg)	22 - 24 lb (10 - 10.8 kg)	33 - 35 lb (15 - 16 kg)
FAA Certification	– TSO-C127a, Type B for FAR Part 29	– TSO-C127a, Type B for FAR Part 29	– TSO-C127a, Type B for FAR Part 29 – STC for EC-145	– TSO-C127a (Pending)	– TSO-C127a (Pending)
Features	<ul style="list-style-type: none"> <li>– 4-Point Restraint with Rotary Buckle</li> <li>– Inertia Reel with Lock</li> <li>– Map Pouch</li> <li>– Horizontal Adjustment</li> <li>– Vertical Adjustment</li> <li>– MS33601 Track Interface</li> <li>– Fabric, Leather or Sheepskin Upholstery</li> </ul>	<ul style="list-style-type: none"> <li>– 4-Point Restraint with Rotary Buckle</li> <li>– Inertia Reel with Lock</li> <li>– Bolstered Cushioning</li> <li>– Lumbar Support</li> <li>– Cyclic Cutout</li> <li>– Horizontal Adjustment</li> <li>– Vertical Adjustment</li> <li>– MS33601 Track Interface</li> <li>– Fabric, Leather or Sheepskin Upholstery</li> </ul>	<ul style="list-style-type: none"> <li>– 4-Point Restraint with Rotary Buckle</li> <li>– Inertia Reel with Lock</li> <li>– Fixed Headrest</li> <li>– Bolstered Cushioning</li> <li>– Lumbar Support</li> <li>– Cyclic Cutout</li> <li>– Horizontal Adjustment</li> <li>– Vertical Adjustment</li> <li>– MS33601 Track Interface</li> <li>– Fabric, Leather or Sheepskin Upholstery</li> </ul>	<ul style="list-style-type: none"> <li>– 3-Point Restraint with Inertia Reel</li> <li>– MS33601 Track Interface</li> <li>– Fabric, Leather or Sheepskin Upholstery</li> </ul>	<ul style="list-style-type: none"> <li>– 3-Point Restraint with Inertia Reel</li> <li>– MS33601 Track Interface</li> <li>– Adjustable Armrest</li> <li>– Adjustable Headrest</li> <li>– Base Fairing</li> <li>– Executive Styling</li> </ul>

Since the introduction of the first successful military crashworthy crew seat in the UH-60 Black Hawk in 1975, we have earned the reputation as a pioneer in aerospace crash safety and combat survivability. The BAE Systems Platform Survivability team develops crashworthy crew, troop, passenger, and VIP seating systems, airframe and occupant armor, and air bag systems to protect aircraft occupants. Our full range of lightweight composite, ceramic-composite, and transparent aircraft armor solutions is unparalleled in the industry. The BAE Systems team is dedicated to providing innovative, life-saving products to the rotorcraft market.

- Rotorcraft seat supplier of choice for the U.S. military
- Sole supplier of troop seats for the C-17 Globemaster transport aircraft
- Providing proven energy-absorbing seat designs for rotorcraft
- Wide range of seats designed to meet customer requirements in weight, crashworthiness, comfort, and ballistic protection
- Leading-edge designs incorporate adjustable recline, adjustable lumbar and thigh cushion support, and monolithic ceramic armor for weight savings and ballistic protection

**BA609**

Years of testing and refined designing has resulted in a seat suitable for the world's most advanced rotorcraft.

The S5000 provides lightweight and ergonomic features in a seat that meets the most stringent FAA requirements for the first commercial tiltrotor.



**The Seat of Choice for the U.S. Army's Light Utility Helicopter Program**

The S5000 continues BAE Systems' proven warrior heritage in an FAA-certified crew seat. Proudly serving today and tomorrow's U.S. Army aviator in the Army's newest aircraft – the UH-72A Lakota.

- Sole provider for all seats in the LUH
- STC certified for installation



UH-72A Lakota crew seat

**VH-71A**

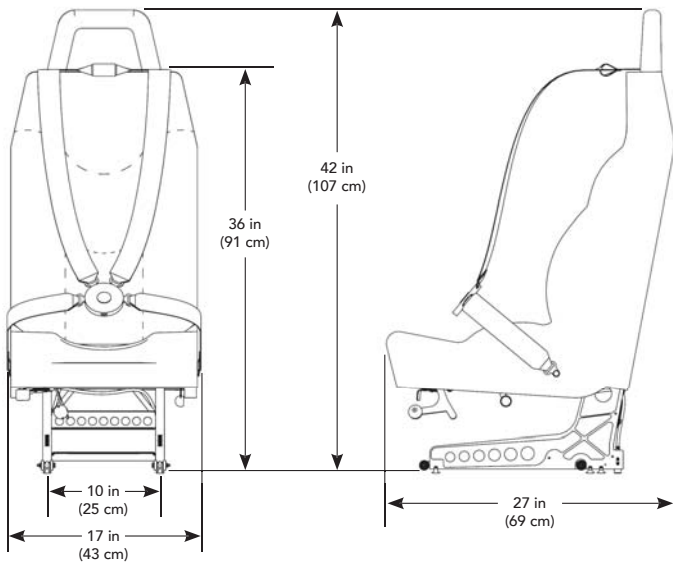
From the warfighter to chief executives, the S5000's lightweight, ergonomic design provides a modular approach that meets the needs of the most discerning helicopter passenger. The S5000 was selected after extensive evaluation as the seat of choice for the U.S. Government's next Presidential Helicopter.



# S5000 Seating

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### Typical S5000 Seat Dimensions



### Dynamic Test Conditions Per SAE AS8049A Type B

Illustration shows a forward facing seat  Inertial load shown by arrow  ←	TEST 1	TEST 2
Min V m/sec (ft/sec)	9.14 (30)	12.80 (42)
Max. tr/sec	0.031	0.071
Min. G	30	18.4
Deform floor:		
Degrees roll	10°	10°
Degrees pitch	10°	10°
Test pulse simulating aircraft floor deceleration-time history		
tr = rise time V = Impact Velocity G = Deceleration measured on the test fixture or the sled near the seat position		

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