



Sikorsky S-92 SUPERHAWK

Superior System. Superior Value. Superior Military Solution.







Superior Military Solution

Modern militaries face budget realities and performance imperatives that have never been more demanding. Governments need and want the newest technology but can't afford to overpay for a system that is costly to own and operate.

Sikorsky has responded to the needs of modern militaries by introducing a military variant of the highly acclaimed S-92 helicopter: the S-92 SUPERHAWK.

Cost-effective to own and operate, the new-technology, 26,500-pound S-92 SUPERHAWK is available now for Troop Transport, External Lift, Combat Search and Rescue, Casualty Evacuation, and Head of State missions worldwide.

THE BOTTOM LINE

*New technology. Better value. Multi-mission.
Available now. S-92 SUPERHAWK.*

Superior System

A Sikorsky S-92 Superhawk helicopter is shown in flight, viewed from a low angle. The helicopter is painted in a camouflage pattern of green, brown, and tan. It is flying over a rugged, mountainous terrain with steep, rocky slopes. The main rotor blades are blurred, indicating motion. The cockpit windows are visible, and a pilot can be seen inside. The overall scene is dramatic and emphasizes the helicopter's performance in a challenging environment.

Long known for setting the standard of excellence for the world's military helicopters, Sikorsky Aircraft exceeded operator expectations with the S-92.

Fully certified, the high-technology S-92 was designed to meet the latest requirements such as FAR and JAR Part 29 and Global Aviation Traffic Management (GATM), which in many cases exceed modern military requirements. The S-92 SUPERHAWK incorporates benefits such as active vibration control, composite blades with ballistic tolerance, and a slate of the most advanced safety features that are a generation ahead of competitive helicopters.

Additionally, the rugged and reliable S-92 SUPERHAWK includes as standard equipment an array of military equipment.

THE BOTTOM LINE *In the S-92 SUPERHAWK, Sikorsky has combined modern certified technology and a legacy of military rotorcraft excellence in an affordably priced helicopter available now.*



The design and performance features that contributed to the versatility and legendary ruggedness of the H-60 BLACK HAWK/SEAHAWK and H-53 series helicopters are incorporated in the S-92 SUPERHAWK.

Multiple Missions, One Aircraft



Whether you need to transport troops or high ranking military officials, perform a complex combat search and rescue operation, evacuate casualties or move supplies, the S-92 SUPERHAWK delivers with highest efficiency.

With 5000+ installed horsepower turbo-shaft engines, operators will realize exceptional range for diverse missions, along with a maximum cruise speed of 151 knots (280 km/h) — so crews may quickly fly in and out of difficult situations with power to spare.



Designed with ruggedness for extreme mission endurance, the S-92 SUPERHAWK offers military customers a series of extensive, mission-specific options. From cabin configuration to military navigation and communication systems and aircraft survival systems, the S-92 SUPERHAWK can be customized for any mission.

THE BOTTOM LINE *Many missions. One aircraft. The rugged and smart Sikorsky S-92 SUPERHAWK.*





Maximum Cabin Flexibility



Sized for ultimate troop maneuverability and battlefield flexibility, the S-92 SUPERHAWK cabin is a spacious 20 feet (6.10 m) long and 6 feet (1.83 m) high and wide, tall enough for troops to stand and move about comfortably, and can be converted rapidly to perform a variety of missions.

The S-92 SUPERHAWK transports 19 troops in its standard configuration or 22 troops in an optional configuration, includes a nearly 7 foot (2.13 m) wide ramp that accommodates 700 pounds (317 kg), and is configured with a 50 inch (1.27 m) right-side sliding door and optional left-side sliding door. Additional storage space is available in the ramp compartment. A 10,000 pound (4,536 kg) cargo hook supports external lift operations.



In a casualty evacuation configuration, the S-92 SUPERHAWK accommodates 16 NATO litter patients and two attendants. For a Head of State mission, the aircraft provides comfortable seating for 11, with a galley as well as ample storage and baggage areas.

THE BOTTOM LINE *The S-92 SUPERHAWK offers a uniquely spacious cabin to maximize mission flexibility.*

Superior Technology



Technology that delivers a battlefield advantage is an important part of the modern military's arsenal. Speed, agility and responsiveness are key components of battlefield effectiveness, and, again, the S-92 SUPERHAWK delivers on all counts. The S-92 SUPERHAWK cockpit design reduces pilot workload, resulting in exceptional handling qualities and maneuverability during approach, hover and landing.

Smart and easy to operate, the S-92 SUPERHAWK features the Rockwell Collins Avionics Management System, which presents audio cues along with intuitive flight symbology and systems data on four fully redundant Liquid Crystal Displays. The night vision compatibility features of the S-92 SUPERHAWK enable mission success day or night.

A fully integrated flight management system, Universal Avionics System Corporation's UNS-1, provides pilots with computer-based flight and fuel management functions.

THE BOTTOM LINE *Available today, the Sikorsky S-92 SUPERHAWK offers superior technology that delivers mission effectiveness.*

The S-92 SUPERHAWK cockpit, shown above with an optional fifth Liquid Crystal Display, is night vision compatible for enhanced mission effectiveness.

Options Maximize Mission Effectiveness



We offer a robust menu of optional equipment that allows you to customize the already well-equipped baseline S-92 SUPERHAWK and enhance your mission effectiveness.

These options include:

Cabin

- 22 troop seats
- Left-side sliding door

Communications/Navigation

- Fifth multi-functional display
- Secure communication
- Weather radar
- Search radar
- HF radio

Search and Rescue/

Combat Search and Rescue

- Rescue hoist with backup and spotlight
- Right- and left-side bubble windows
- Forward Looking Infrared (FLIR)
- Digital map
- SAR AFCS
- Fast rope
- Internal auxiliary fuel

Aircraft Survivability

- Countermeasure dispensing system
- Missile warning
- Radar warning
- Wire strike protection

THE BOTTOM LINE *The S-92 SUPERHAWK offers modern military battlefield proven optional equipment for increased mission effectiveness.*



Superior Value

Exceptionally cost effective to own and operate, Sikorsky's S-92 SUPERHAWK delivers maximum value to modern militaries.

Economics were a prime consideration in designing the S-92, and the S-92 SUPERHAWK follows its lead as a modern helicopter that is exceptionally cost effective to own and operate. So in addition to achieving superior range and fuel efficiency when compared to competitive helicopters, the S-92 SUPERHAWK has the lowest direct maintenance cost — by far — of any helicopter in its class.

And because this helicopter was designed for longevity, the S-92 SUPERHAWK's maintenance features have been embedded into its structure and avionics. The high level of flaw tolerance designed into the S-92 SUPERHAWK for safety also allows original parts to remain in service much longer than with other aircraft models, lowering direct material and operating costs.

In addition to a damage-tolerant design, these cost-saving features will deliver value day in and day out for the life of the aircraft: on-condition engines, rotors, avionics and airframe; HUMS diagnostics; simplified and maintainer-friendly access for inspections; maximized field-level repair; and reduced support equipment.

THE BOTTOM LINE *The S-92 SUPERHAWK is more cost effective to own and operate than any other helicopter in its class.*

Direct Maintenance Cost is 30% lower		Maintenance man-hours per flight hour are 23% lower	
\$1,373 per flight hour	\$975 per flight hour	3.62	2.94
Medium Lift Helicopter industry average	S-92	Medium Lift Helicopter industry average	S-92

An independent study (Conklin & de Decker) shows that the S-92 has much lower operating costs than other helicopters in its class. Numbers shown are in 2005\$.



Autonomous in the field, the S-92 SUPERHAWK is designed for easy maintenance access and requires no special tools, ladders or workstands for inspections.

Superior Safety

The only effective mission is a safe mission, where crews are kept out of harm's way.

The S-92 dominates the safety category, by a huge margin, with fully redundant systems and features that are a generation ahead. Safety was designed in to the S-92, making it the first helicopter to meet stringent safety requirements established by the FAA and JAA, and the S-92 SUPERHAWK follows suit.

The S-92 SUPERHAWK's fuel system is self-contained and meets the highest crashworthiness standards to preclude a post-crash fire. Energy-absorbing seats and landing gear are designed to minimize the effects of a hard landing.

The aircraft's array of preventive safety features are equally impressive, and include redundant systems for flight controls, avionics, cockpit displays, electrical systems and engine controls, health usage monitoring to capture and record operational flight data, plus certified bird-strike protection and turbine burst protection. The Enhanced Ground Proximity Warning System (EGPWS) is standard equipment on the S-92 SUPERHAWK. Additionally, Sikorsky has perfected the art of flaw-tolerant design, which maximizes the reliability of S-92 SUPERHAWK parts for the highest possible degree of component safety.

Of course, the S-92 SUPERHAWK delivers all-weather safety for any condition, at any time, and in any environment — so whether crews are flying in the desert, over a mountain, or across an ocean, they may fly with peace of mind day and night. The S-92 SUPERHAWK's weather-related safety assurances include main and tail rotor ice protection, lightning protection and High Intensity Radiated Field (HIRF) protection so that critical electronic systems are protected from electromagnetic interference.

THE BOTTOM LINE Sikorsky's S-92 SUPERHAWK is the safest helicopter in its class.





“... an outstanding improvement in fundamental helicopter technology”

American Helicopter Society, 2003 upon conferring the Howard Hughes Award for industry-leading, flaw-tolerant design

“... the greatest achievement in aeronautics” in 2002

National Aeronautic Association, upon award of the prestigious Collier Trophy (left)



Sikorsky's S-92 SUPERHAWK is the only helicopter certified to the latest FAA/JAA Part 29 standards. Safety features include:

- | | |
|---|--|
| ① High-visibility cockpit | ⑧ Energy-absorbing landing gear |
| ② High-Intensity Radiated Field protection (HIRF) | ⑨ Built-in corrosion resistance |
| ③ Health and Usage Management System (HUMS) | ⑩ Bird-strike protection at maximum aircraft speed |
| ④ Enhanced Ground Proximity Warning System (EGPWS) | ⑪ Lightning strike protection |
| ⑤ Crashworthy seats for all occupants | ⑫ High energy turbine burst protection |
| ⑥ Sponson design keeps fuel away from passengers | ⑬ Robust flaw-tolerant design |
| ⑦ Suction fuel system prevents hazardous fuel spray | ⑭ Ballistic tolerance |
| | ⑮ Proven de-icing system |



Sikorsky offers S-92 flight training on ultra-realistic Level D flight simulators

Superior Service



Only Sikorsky combines solid support systems, based on long-standing and proven military maintenance programs, with state-of-the-art capabilities that are unique to the industry.

Fast. Knowledgeable. On site and on time.

Sikorsky keeps modern militaries flying with around-the-world and around-the-clock service, and a comprehensive program that includes spare parts, overhaul and repair, training, on-site technical and logistics representatives, ground support equipment, publications and more.

Sikorsky also offers full motion flight simulation, engineering support, and will assign to your program a single-point-of contact to simplify the support process across the board.

An important aspect of the S-92 SUPERHAWK helicopter support program is the unique on-condition maintenance system, which minimizes the requirements to schedule component removals and overhauls.

THE BOTTOM LINE *The S-92 SUPERHAWK worldwide customer service team will work with your personnel to increase flight readiness, improve ease-of-use, and reduce costs.*

S-92 SUPERHAWK Configuration and Options

Base Configuration

The S-92 SUPERHAWK features two General Electric CT7-8A turboshaft engines with integral particle separator and pneumatic starting system. In addition, the aircraft includes a Honeywell 36-150 auxiliary power unit for on the ground or in the air emergency power.

The main rotor system is a four-bladed fully articulated system, designed to meet the FAA flaw tolerance standards.

The standard avionics package features Rockwell Collins Proline Communication and Navigation Radios, four portrait-oriented Multifunctional Display (MFD) units, and two Display Control Panels (DCP) units, which control the navigation mode selection and provide adjustment of the reference parameters. The aircraft includes a dual digital automatic flight control system and a coupled flight director.

The basic fuel of 760 gallons (2877 l) is stored in two external sponsons with self-sealing breakaway valves.

	Troop Transport	Combat Search and Rescue
19 Troop seats	●	●
Right-side sliding door	●	●
Night Vision Compatible (NVG) cockpit	●	●
Military avionics	●	●
Cargo hook	●	●
Three gun pintle mounts (right-side, left-side, ramp)	●	●
Enhanced Ground Proximity Warning System (EGPWS)	●	●
Armored cockpit seats	●	●
Rescue hoist		▲
Forward Looking Infrared (FLIR)		▲
SAR Automatic Flight Control System (AFCS)		▲
Internal auxiliary fuel		▲
HF radios		▲
Digital map		▲
Direction finder		▲
Searchlight		▲
Bubble windows (right- and left-side)		▲
Radar warning system		▲
Missile warning system		▲
Countermeasure dispensing system		▲
Fast Rope		▲
Search radar		▲

Additional Available Options

22 troop seats, left-side sliding door, Traffic Collision Avoidance System (TCAS), air conditioning, 5th MFD, rotor ice protection system (de-ice), wire strike protection, weather radar

● Standard Equipment

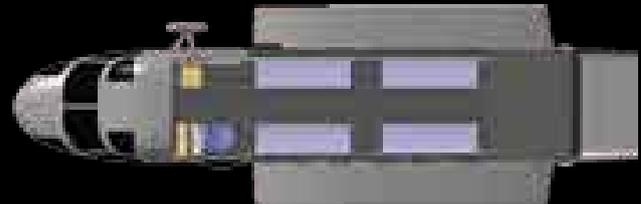
▲ Optional Equipment

S-92 SUPERHAWK Maximum Flexibility

With its exceptionally large cabin, the S-92 SUPERHAWK delivers a range of interior options to maximize flexibility for commanders and maximize value for government operators.



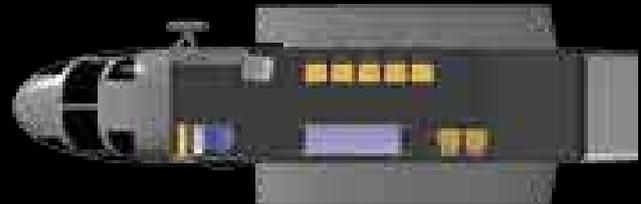
19 troop seats
right-side sliding door



Casualty Evacuation
(CASEVAC)



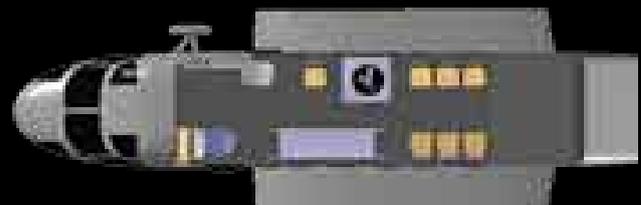
19 troop seats
right- and left-side sliding doors



Combat Search and Rescue (CSAR)
Search and Rescue (SAR)



22 troop seats
right-side sliding door



CSAR/SAR
with internal auxiliary fuel



22 troop seats
right- and left-side sliding doors

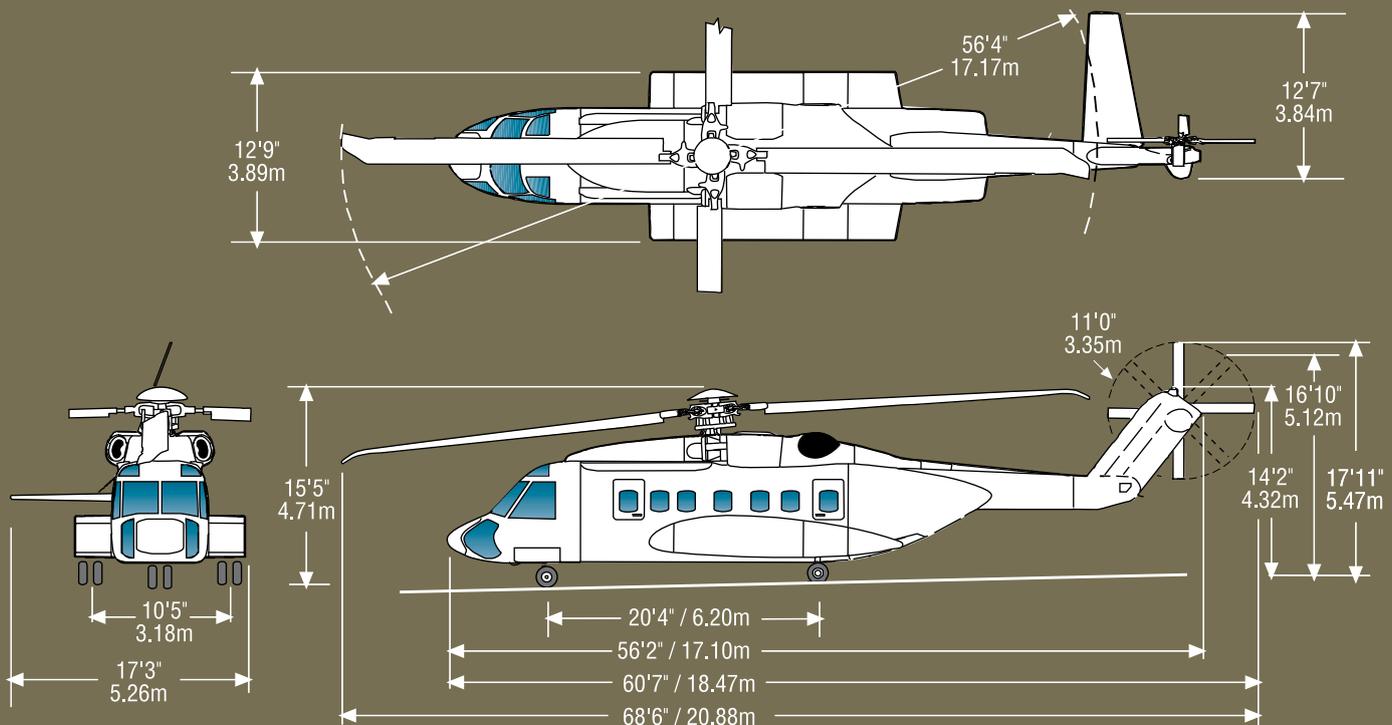


11-place VIP interior
with attendant seat

S-92 SUPERHAWK Specifications

Standard Day Sea Level at 26,500 lb/12,020 kg gross weight

Maximum speed (VNE)	165 kts	306 km/hr
Maximum continuous cruise speed	151 kts	280 km/hr
Long range cruise speed	136 kts	253 km/hr
Mission Range		
- with 19 troops, 20 minute reserve	482 nm	893 km
- with 19 troops, no reserve	526 nm	974 km
- maximum range with 370 gallons internal aux fuel, 20 minute reserve	800 nm	1,482 km
Service ceiling	13,780 ft	4,200 m
Hover ceiling out-of-ground effect	6,695 ft	2,041 m
Hover ceiling in-ground effect	10,913 ft	3,326 m
Maximum takeoff gross weight, civil configuration		
- internal load	26,500 lb	12,020 kg
- external load	28,300 lb	12,837 kg
Maximum external load	10,000 lb	4,536 kg
Weight empty	16,604 lb	7,531 kg
Operating weight empty	17,051 lb	7,734 kg
Maximum fuel load, (internal, standard)	5,130 lb	2,327 kg
Maximum fuel load, (internal, auxiliary 370 gallons)	7,628 lb	3,460 kg



There are those who fly. And those who fly Sikorsky.

For the world's elite military operators, Sikorsky is the only way to fly. As the world's premier provider of military rotorcraft, Sikorsky goes above and beyond to deliver a complete helicopter experience. Sikorsky not only sets the standard for rotorcraft excellence and safety — we exceed it.

- With innovative solutions.
- A proven family of high-performing helicopters.
- Superior value.
- And unparalleled service and support.

In the world of vertical flight, one name stands above the rest. Sikorsky.

For a confidential consultation, demonstration, or for more information about the S-92 SUPERHAWK, contact our military marketing specialist.



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Sikorsky

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