



Sikorsky S-92 Search and Rescue Helicopter
The best value solution for saving lives







Best SAR Solution

In today's environment, civil, paramilitary, and government helicopter operators confront performance imperatives and budget realities that have never been more demanding.

These operators have new and emerging opportunities and requirements to perform. They need and want the newest technology and the best, most reliable equipment available to perform multiple missions, including search and rescue, airborne law enforcement, or cargo but can't afford to overpay for a system that is costly to own and operate.

Sikorsky has responded with the S-92 helicopter: the ideally sized and priced search and rescue helicopter system these customers are seeking. Cost-effective to own and operate, the new-technology S-92 delivers a fully modern cockpit with an automatic flight control system and weather radar; unprecedented cabin size and versatility; an impressive record of reliability; and the complete backing and support of Sikorsky Aircraft – the search and rescue innovator.

The all-weather capable S-92 is available now as the off-the-shelf platform of choice for search and rescue missions worldwide. It's a powerful search and rescue tool, so when people are relying on you, you can rely on the S-92.

THE BOTTOM LINE

New technology. Better value.

The best choice for the search and rescue mission.

Sikorsky S-92.

Decades of Delivering Hope



Building on Our SAR Heritage

In the world of vertical flight, one name stands above the rest. Long known for setting the standard of excellence for the world's civil and military helicopters, Sikorsky Aircraft has exceeded operator expectations with the S-92 helicopter.

The all-weather capable S-92 is the latest in a family of Sikorsky helicopters that have been delivering hope around the world for six decades, fulfilling Igor Sikorsky's vision of the helicopter as a life-saving tool. For the challenging requirements of search and rescue, casualty evacuation, homeland security, airborne law enforcement and more, customers continue to turn to Sikorsky and its unmatched legacy of search and rescue experience and effectiveness.



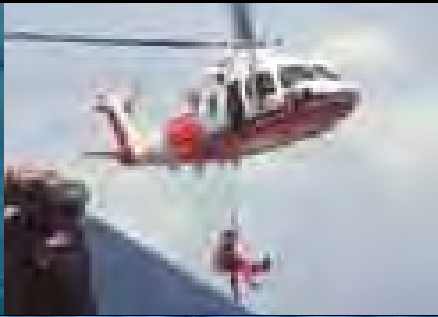
World-class SAR operators have begun to supplement their fleets of reliable Sikorsky S-61 helicopters with the all-new S-92.

The high-technology S-92 is certified to the latest FAA/JAA Part 29

regulations, while incorporating benefits such as active vibration control, composite blades, and an array of the most advanced safety features that are a generation ahead of competitive helicopters. It's the ideal helicopter for people in need because it was designed to get in and get people out, safely and reliably, mission after mission, rescue after rescue.

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





A RICH SAR HERITAGE

Sikorsky Aircraft's legacy of lifesaving began more than 60 years ago with the world's first airborne rescue, and continues today. The S-92 incorporates the latest advances in search and rescue technology.



Advantage: Your Crews



Technology that delivers a mission advantage is key to Sikorsky's S-92

Speed, stability and responsiveness are all key components to search and rescue effectiveness, and, again, the S-92 helicopter delivers on all counts.

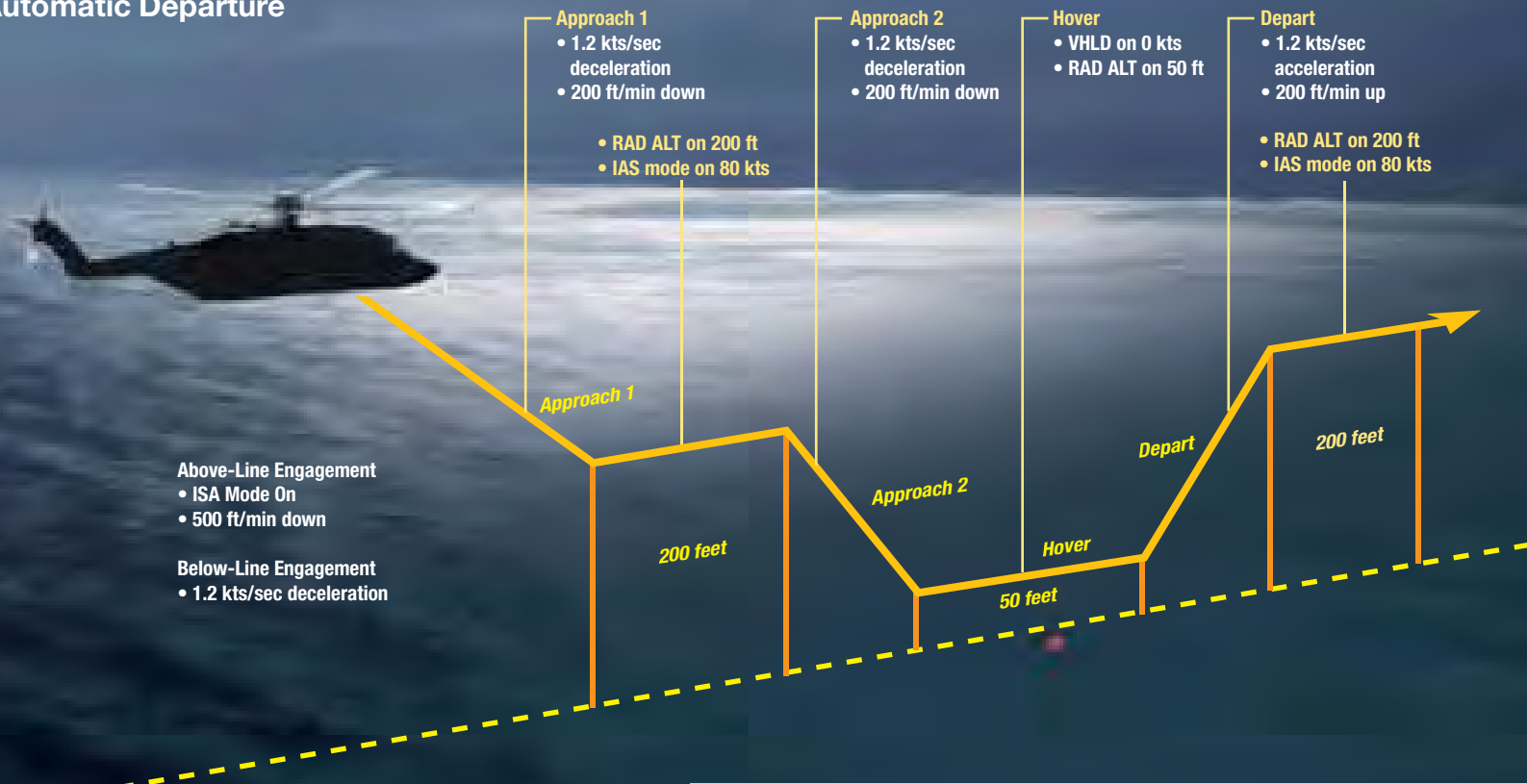
The S-92 cockpit design reduces pilot workload, and has exceptional handling qualities and maneuverability during approach, hover and landing. Smart and simple to operate, the S-92 features the Rockwell Collins/Sikorsky Avionics Management System, which presents audio cues along with intuitive flight symbology and systems data on four fully redundant Multi Function Liquid Crystal Displays with a fifth display optional. Especially beneficial is

the SAR Automatic Flight Control System (AFCS) functionality, which integrates weather radar, thermal imagers and other search sensors. The cockpit also offers an unmatched field of view.

The S-92 combines the agility to fly in and out of tight spaces with the power needed to fly in challenging environments while carrying heavy loads. It also meets the single-engine inoperative requirements of JAR Ops 3.

THE BOTTOM LINE *The S-92 offers superior technology that delivers unmatched search and rescue mission effectiveness.*

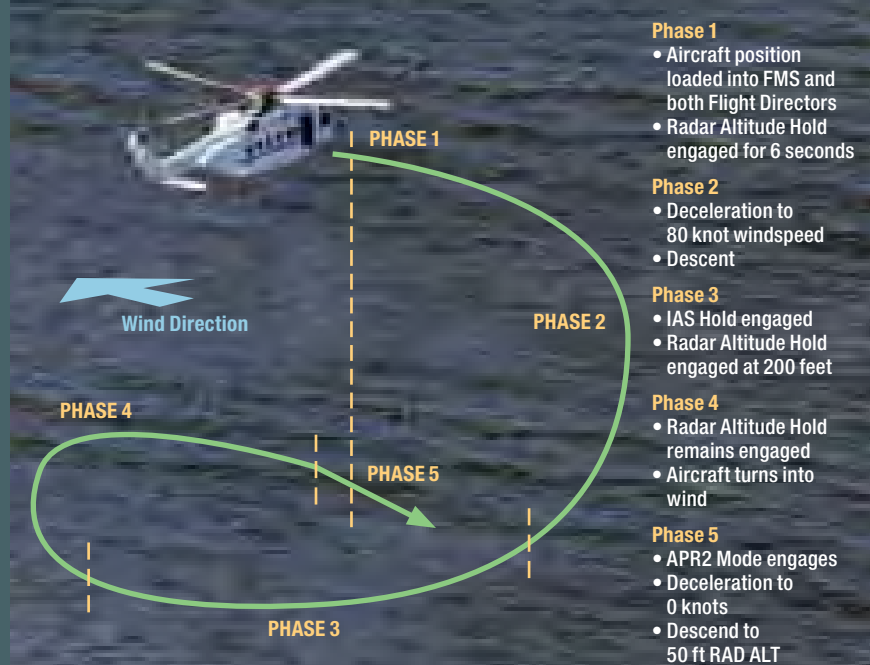
Automatic Approach to Hover/ Automatic Departure



Superior SAR Displays: Pilots benefit from the S-92 Universal Flight Management System with Multi Mission Management System, which provides search patterns to multi-function displays.

The S-92's Automatic Flight Control System reduces pilot workload, provides excellent stability, and greatly improves flight crew situational awareness during SAR operations

Mark on Target Approach (automatic approach to survivor location)



Ultimate SAR Cabin

Whether you need to perform a complex rescue operation or deliver food and water, the S-92 helicopter is the ideal aircraft, with the robust flexibility and performance required for the search and rescue mission.

Sized for the ultimate in maneuverability and flexibility, the S-92 offers the largest cabin of any helicopter in its class. The cabin is 20-feet long (6.10 m) and six-feet high (1.83 m) — tall enough for passengers and crew to stand and move comfortably. It rapidly converts to perform a variety of missions, including SAR, airborne law enforcement, cargo, evacuation, mass casualties, and more. In a casualty evacuation configuration, the S-92 accommodates 16 NATO litter patients and two attendants.

Easy to configure, the S-92 provides standard seating for 10 and optional seating for up to 22 people. It features a 50-inch right-side sliding door, which is large enough to easily accommodate a standard Stokes litter with unrestricted rescue hoist access.

The hoist can lift 600 pounds (272 kg) and is electrically powered and controlled, providing 290 feet (88.4 m) of usable cable with a spotlight. An optional left-side sliding door is also available, as is an optional 10,000-pound (3,629 kg) cargo hook for external lift operations.

The S-92 also includes a nearly 7-foot-wide rear ramp that accommodates 700 pounds (317 kg) and enables quick and easy cargo loading and offloading. The ramp compartment also provides additional stowage space. The S-92 is the only helicopter in its class capable of flying at maximum speed with the ramp door open, enabling crews to rapidly egress or drop lifesaving equipment to those in need.

THE BOTTOM LINE *The S-92 offers a uniquely spacious cabin to maximize mission flexibility and search and rescue effectiveness.*





Optional interiors shown



Born to the SAR Mission



Ready. Willing. Able.

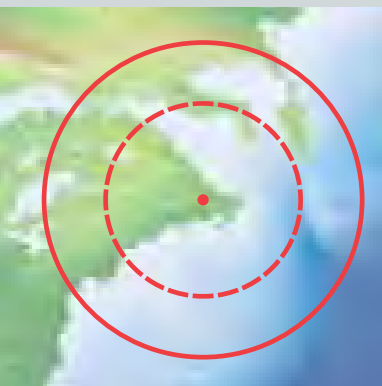
Even in the toughest scenarios, Sikorsky's S-92 helicopter outperforms other aircraft. The S-92 features an advanced rotor system, and 5,000+ installed horsepower twin turboshaft engines for exceptional range.

It can fly programmed search patterns for one hour, 175 nautical miles (324 km) from shore, and then hoist six survivors aboard and return to base with 30 minutes of reserve fuel. Optional internal auxiliary fuel tanks are available for even more range. It has ample power reserves to work with heavy loads in high-density altitudes.

When severe weather strikes, the S-92 will weather the storm with ease, keeping crew and passengers secure. The aircraft is FAA and JAA certified to fly in known icing conditions with

optional protection for the main rotor and tail rotor, and features standard protection for the engine inlets, windshield and air data system.

THE BOTTOM LINE *The S-92 offers outstanding power, range and features, making it the ultimate SAR helicopter.*



Outstanding Range

The S-92's excellent range can be enhanced with optional auxiliary fuel tanks.

Standard fuel
457 nm (847 km)

Dual auxiliary fuel tanks
759 nm (1,406 km)



Options Maximize Mission Effectiveness

Sikorsky offers a robust menu of standard and optional equipment that allows operators to customize the already well-equipped S-92 helicopter and further enhance mission effectiveness.

Cabin

- Up to 22 side-facing utility seats
- Left-side sliding door

Communications/ Navigation

- HF radio*
- Weather radar*
- Fifth multi-functional display
- Secure communication
- 360° search radar

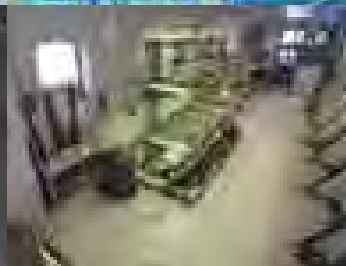
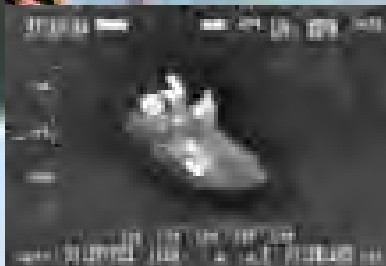
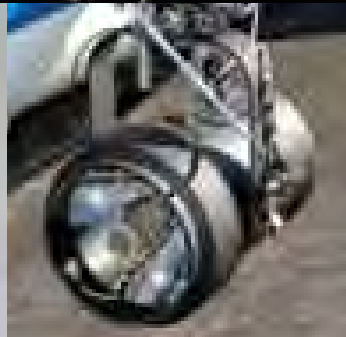
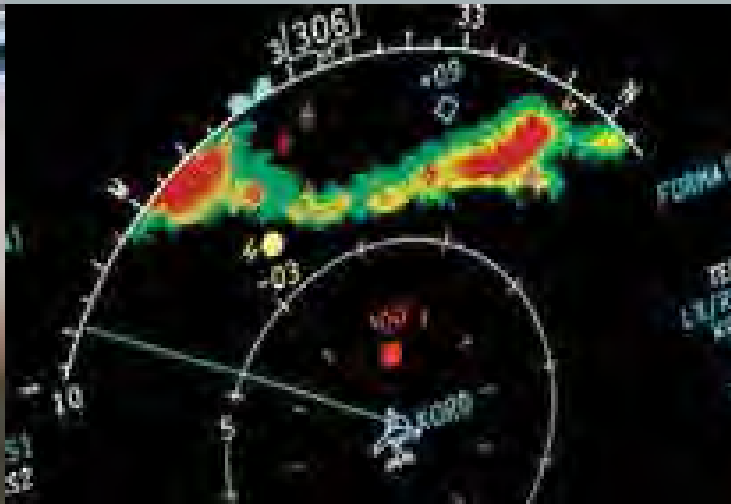
Search and Rescue

- Right- and left-side bubble windows*
- Forward Looking Infrared (FLIR)*
- SAR Automatic Flight Control System (AFCS)*
- Dual rescue hoist with spotlight
- Digital map
- Internal auxiliary fuel
- Wire strike protection

* Standard equipment

THE BOTTOM LINE

The S-92 offers SAR operators proven optional equipment for increased mission effectiveness.



Proven Safety

Safety That's a Generation Ahead

The only effective mission is a safe mission, where crews are kept out of harm's way. The S-92 helicopter leads the safety category with fully redundant systems and features that are a generation ahead. Safety was designed into the S-92, making it the first helicopter to meet stringent safety requirements established by the FAA and JAA.

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

The aircraft's array of preventative safety features are equally impressive, and include redundant systems for flight controls, avionics, cockpit displays, electrical systems and engine controls, health and 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. Additionally, Sikorsky initiated the art of flaw-tolerant design, which maximizes the reliability of S-92 parts for the highest possible degree of component safety.

Of course, the S-92 delivers all-weather safety for any condition, 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's weather-related safety assurances include weather radar, optional 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 is the safest helicopter in its class.*



The unique cockpit layout provides excellent field of view for safe operations. All flight-critical systems are fully redundant, preventing single-point failures.

Energy-absorbing seats and landing gear minimize injury to occupants in an emergency. All passenger and crew seats are proven with dynamic testing.



Only the S-92 incorporates a fully flaw-tolerant design for both the rotor and fuselage structures, which provides significantly improved safety margins and ensures long component lives.



The fuel system design meets the highest crashworthiness standards to preclude a post-crash fire. Older designs with fuel in the belly are neither safe nor allowed by the latest standards.



“... 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”

National Aeronautic Association, upon award of the prestigious 2002 Collier Trophy (left)



Sikorsky S-92 cutting edge safety features include:

- ① High-visibility cockpit
- ② High-Intensity Radiated Field protection (HIRF)
- ③ Health and Usage Management System (HUMS)
- ④ Enhanced Ground Proximity Warning System (EGPWS)
- ⑤ Crashworthy seats for all occupants
- ⑥ Fuel sponson design keeps fuel away from passengers, but does not interfere with SAR mission
- ⑦ Suction fuel system prevents hazardous fuel spray
- ⑧ Energy absorbing landing gear
- ⑨ Built-in corrosion resistance
- ⑩ Bird-strike protection at maximum aircraft speed
- ⑪ Lightning strike protection
- ⑫ High energy turbine burst protection
- ⑬ Flaw-tolerant design
- ⑭ Optional FAA/JAA certified Rotor Ice Protection System (RIPS)



All-Weather Capable

With the optional FAA and JAA certified Rotor Ice Protection System (RIPS) installed, the S-92 can launch in any weather.

Outstanding Value



Sikorsky's S-92 helicopter delivers maximum value to search and rescue operators

Economics were a prime consideration in the design of the S-92, making it unique as a thoroughly 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 helicop-

ters, the S-92 has the lowest direct maintenance cost — by far — of any helicopter in its class.

Because this helicopter was designed for longevity, the S-92's maintenance features have been embedded into its structure and avionics. The flaw tolerance designed into the S-92 for safety also



Cost Effective To Own and Operate

<i>Direct Maintenance Cost is 30% lower</i>		<i>Maintenance man-hours per flight hour are 23% lower</i>	
\$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 US dollars.



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

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 Sikorsky S-92 is more cost effective to own and operate than any other helicopter in its class.*

Superior Service

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

Fast. Knowledgeable. On site and on time. We keep operators 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, maintenance training, engineering support, and will assign your program a single point-of contact to simplify the support process across-the-board.

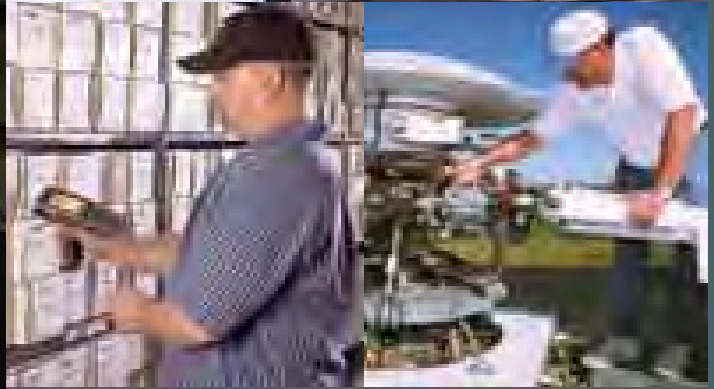
An important aspect of our S-92 helicopter support program is the unique on-condition maintenance system, which minimizes the requirements to schedule component removals and overhauls.

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





Among Sikorsky's outstanding customer service programs are S-92 flight training on ultra-realistic Level D flight simulators, and maintenance training using an actual full aircraft maintenance trainer.



S-92 SAR Configuration and Options

Basic configuration

The S-92 helicopter 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 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 digital automatic flight control system and a coupled flight director.

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

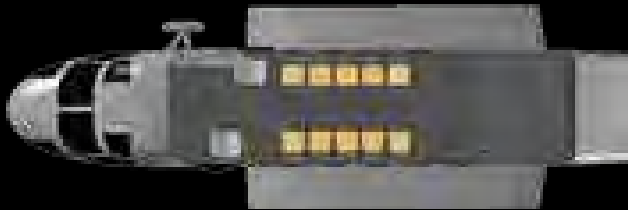
S-92 Search and Rescue Mission Equipment

	Standard	Available Option
10 utility seats - side facing fold-up (provisions for up to 22 seats)	●	
Right-side full height aft-sliding door	●	
Enhanced Ground Proximity Warning System (EGPWS)	●	
Single rescue hoist with spotlight	●	
Forward looking Infrared (FLIR)	●	
SAR Automatic Flight Control System (AFCS)	●	
HF Radio	●	
Direction finder	●	
Searchlight, Nightsun II	●	
Bubble windows (right-side and left-side)	●	
Loudhailer	●	
VHF/UHF/AM/FM, Global Wulfsberg Flexcomm II with guard receiver	●	
Flight Management System with MMMS	●	
SATCOM	●	
Weather Radar (Honeywell 701)	●	
Sea tray	●	
SAR crew swivel seats (right-side and left-side, fore and aft tracking)	●	
Automatic Deployable ELT (ADELT)	●	
Emergency flotation system	●	
21 person capable life rafts (right-side and left-side)	●	
Traffic Collision Avoidance System (TCAS)	●	
Health and Usage Management System (HUMS)	●	
22 utility seats		▲
Dual rescue hoist with spotlight		▲
Night Vision compatible (NVG) cockpit		▲
Cargo hook		▲
Internal auxiliary fuel		▲
Digital map		▲
360° search radar		▲
Air conditioning		▲
Rotor Ice Protection System (RIPS)		▲
Wire strike protection		▲
CASEVAC - Up to 16 litters		▲
Cabin centerline cargo winch and cabin/ramp floor roller system		▲

S-92 SAR Maximum Flexibility

Multiple Cabin Configuration options

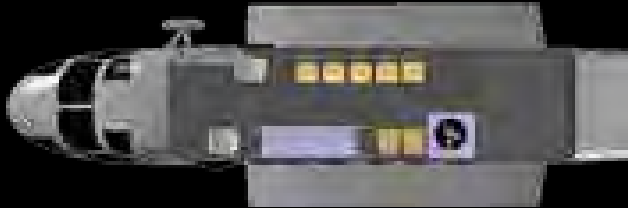
With its exceptionally large cabin, the S-92 helicopter delivers a range of interior options to maximize flexibility and value for search and rescue operators.



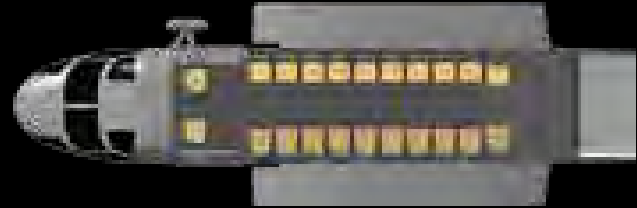
Standard Search and Rescue (SAR)
10 passenger



Search and Rescue with 19 fold-up utility seats
and right-side sliding door



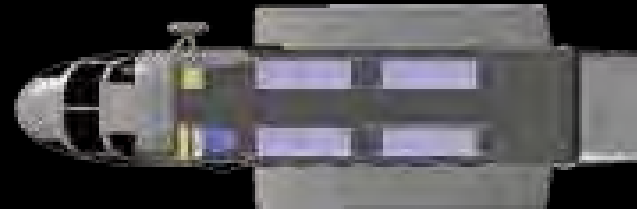
Search and Rescue
with internal auxiliary fuel tank



Search and Rescue with 22 fold-up utility seats
and right- and left-side sliding doors



Search and Rescue
with dual internal auxiliary fuel tanks

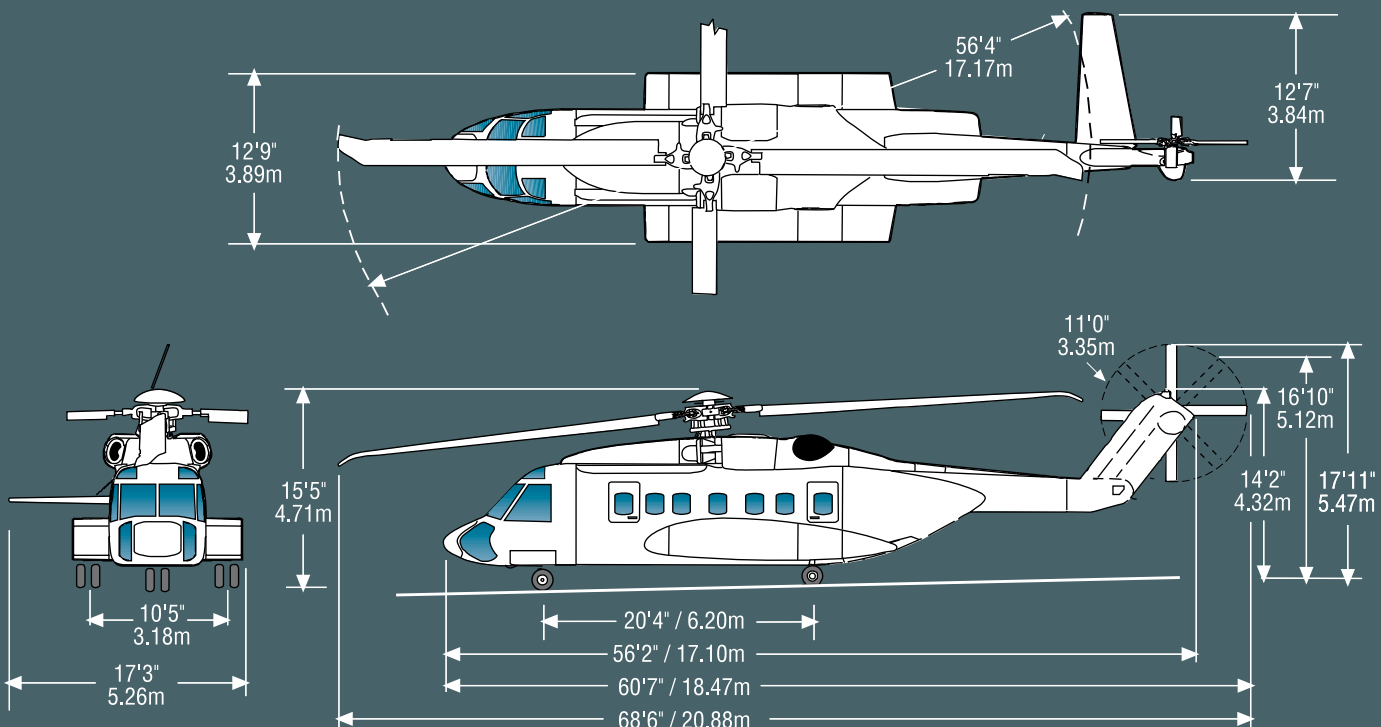


Casualty Evacuation
(CASEVAC)

S-92 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 at long range cruise speed		
- Range, MTOGW, standard fuel, 30 minute reserve	457 nm	847 km
- Range, MTOGW, 30 minute reserve, standard fuel plus 370 gallons internal auxiliary fuel	759 nm	1,406 km
- Mission radius of action, standard fuel, 30 minute reserve, 2 survivors	241 nm	447 km
- Mission radius of action, standard fuel, 30 minute reserve, 2 survivors, 1 hour time on station	189 nm	350 km
Service ceiling	14,525 ft	4,427 m
Hover ceiling out-of-ground effect	6,698 ft	2,042 m
Hover ceiling in-ground effect	10,912 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
- useful load	9,775 lb	4,434 kg
Maximum external load	10,000 lb	4,536 kg
Weight empty	16,725 lb	7,586 kg
Operating weight empty	17,572 lb	7,971 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 most successful search and rescue operators, Sikorsky is the only way to fly. As the world's premier provider of 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
- 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 Sikorsky's S-92 helicopter, please contact our search and rescue marketing specialist.

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



Sikorsky

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