



PHI

SIKORSKY
S-92[®] MULTI-MISSION
HELICOPTER







REVOLUTIONARY

The Sikorsky S-92® helicopter is truly revolutionary. From enhanced safety features that meet the latest and most stringent FAA and JAA regulations to its various multi-mission capabilities, the S-92 helicopter's versatility and dependability are unmatched.

The S-92 is an aircraft capable of flying virtually any mission, anywhere, including offshore oil transport, search and rescue and airliner point-to-point service. In addition to the range of mission configurations the S-92 helicopter offers, it is also designed to be cost-effective to operate and easy to maintain.

Whatever your mission requires you need an aircraft that's up to the challenge. Safe, comfortable, reliable – the S-92 is all that and more. Ideal for passengers, pilots and operators alike, the S-92 helicopter is truly a revolutionary way to fly.

S-92® is a registered trademark of Sikorsky Aircraft Corporation. All rights reserved.

A GENERATION AHEAD

Improving Safety and Reliability

Building on Sikorsky's fifty year legacy of exceptional civil helicopters, the S-92 helicopter was the first in its class to meet the newest, most stringent FAA/JAA Part 29 requirements, and remains the only medium weight helicopter to meet those requirements without exception or waiver. The S-92 incorporates state-of-the-art technology such as active vibration control, composite blades, and a long list of advanced safety features that are a generation ahead of competitive helicopters.

Additionally, the S-92 helicopter is a uniquely economical helicopter, engineered for supportability, easy to inspect and service, with maintenance flexibility built into its systems.





SAFE AND SOUND

Sikorsky is Committed to the Safety of the Operators and Passengers Who Fly in Our Aircraft.

The S-92 helicopter was designed 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 helicopter's fuel system is self-contained and meets the highest crashworthiness standards to minimize 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. An Enhanced Ground Proximity Warning System (EGPWS) and Traffic Collision Avoidance System (TCAS) are standard equipment on the S-92 helicopter. Additionally, Sikorsky has pioneered the art of flaw-tolerant design, which maximizes the reliability of S-92 helicopter parts.

Of course, the S-92 helicopter delivers all-weather safety. 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 helicopter'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.



- 1 High visibility cockpit
- 2 Windshield and main engine ice protection (optional main and tail blade protection)
- 3 Fuselage and rotor system bird strike protection
- 4 Flaw tolerant rotor and dynamic system
- 5 Main engine turbine burst protection



- 6 Lightning strike protection
- 7 Real time bearing monitor system
- 8 Automatic Deployable Emergency Locator Transmitter (ADELT)
- 9 Crashworthy Fuselage exceeding US MIL Spec requirements
- 10 Emergency Floatation System (Sea State 6)
- 11 Crashworthy external main fuel cells
- 12 Crashworthy, energy absorbing passenger seats
- 13 High Intensity Radiated Field (HIRF) protection
- 14 ADSB out, TCAS II, EGPWS

SMART TECHNOLOGY



Flying in foul weather and increasingly crowded skies day in and day out is demanding for the flight crew. Technology that delivers an advantage in these conditions is an important part of a pilot's resources. The cockpit design of the S-92 helicopter provides enhanced visibility and exceptional handling qualities and maneuverability during approach, hover and landing.

Smart and easy to operate, the S-92 helicopter features the Rockwell Collins Avionics Management System, which presents audio cues

along with intuitive flight symbology and systems data on all four fully redundant multi-function displays, easily read in direct sunlight or cross-cockpit. Shown above is the S-92 helicopter cockpit with an optional fifth multi-function display.

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



Multiple Missions, One Aircraft

POWER. RANGE. SAFETY. RELIABILITY. ECONOMICS.

These are the attributes that every helicopter operator is after, no matter what the mission. And the S-92 helicopter delivers them, and more. Add a spacious cabin, a smooth quiet ride, and built-in maintainability, among others.

It's no wonder that the S-92 helicopter has become the clear choice – the smart choice – for operators around the globe.

OFFSHORE OIL TRANSPORT

Offshore Oil Transport providers select it for its range, award-winning safety features, and ability to fly in any weather.

SEARCH AND RESCUE

Search and Rescue providers choose it for its rugged reliability, agility, and the flexibility of its spacious cabin.

AIRLINE SERVICE

Airline service operators choose it for the low seat per mile costs, its productivity, and the comfort it can offer their passengers.

TOUGH MISSION, TOUGH HELICOPTER

Offshore Oil Transport

When your mission is tough you need a helicopter that is tough, safe and reliable. The offshore oil configured S-92 helicopter is that and more.

With more than 5,000 installed horsepower from twin turbo shaft engines, operators will realize exceptional range and payload, along with a maximum cruise speed of 151 knots (280 km/h) – so operators will be able to carry more passengers at higher cruise speeds, increasing productivity.





SMOOTH AND QUIET

Offshore Oil Transport

The S-92 helicopter carries 19 offshore oil workers to and from distant rigs in a comfortable airline-type cabin arrangement that features ample shoulder room and leg room with a 32 inch (0.81 m) seat pitch.

Another outstanding feature, a large baggage area, allows passengers to fit more of their belongings for extended stays offshore without compromising comfort.

In addition to more space, the S-92 helicopter provides a more comfortable atmosphere for long flights. Separate heating and vent systems provide passengers with fresh air from overhead while at the same time keeping their feet warm. For better air quality the entire cabin air volume is replaced once a minute. The vibration control systems and cabin acoustic enhancements yield a smooth ride and quiet cabin.



The rear ramp allows easy access to the large cargo area, which offers ample storage for baggage and supplies (bottom).





Large push-out windows at every row in the cabin.

OPTIONS

Available options for the offshore oil transport mission increase the safety, productivity and comfort of the passengers and crew. Options include:

- Rotor Ice Protection System (RIPS)
- Full height sliding cabin door
- Cold weather cabin heat
- Cold weather cockpit heat
- Center multi-function display
- Primus 700 weather radar
- Traffic Alert and Collision Avoidance System (TCAS II)
- Lightning sensor
- Upper sliding door / lower airstair
- Sikorsky Rig Approach system for coupled approaches to oil platforms

GET IN. GET PEOPLE OUT.

Search and Rescue

When saving lives is your mission you need a powerful helicopter that you can count on in any environment. The Search and Rescue configured S-92 helicopter is the answer.

Designed to get in and get people out, the S-92 helicopter has up to four hours of standard fuel and 2 tons (907 kg) of internal load capacity. With standard fuel the S-92 helicopter can rescue 2 survivors at 210 nautical miles (389 km) and ten at 175 (324 km). With the optional auxiliary tanks that are 210 gallons each, these distances expand out to 320 nm (593 km) and 285 nm (582 km). With more than 5,000 shp (3758 kw) installed, the S-92 helicopter has excellent hover performance to hoist rescues to safety. Its superior maneuverability and sheer power result in performance you can count on.

The interior is easily configured for whatever the mission requires. The spaciousness and flexibility, along with a large SAR equipment storage area, enables the S92 helicopter to be used as a flying hospital.

The cabin of the S-92 helicopter is easy to configure, allowing for multi-mission flexibility, and offers provisions for up to 22 fold-down crashworthy utility seats and plenty of floor space for additional rescues.* The spacious cabin gives aircrews and medical personnel room to stand and move about, as well as full-body access to injured passengers.

Equipped with single or dual hoist with equal capability, the S-92 helicopter has unrestricted hoist access through a wide sliding door that accommodates a standard Stokes litter with ease. The 600 pound (272 kg) capacity hoist is electrically powered and controlled, provides 290 feet (88.4 m) of usable cable, and has a spotlight.

The power-operated cargo ramp in the rear eases loading and unloading of people and equipment. The S-92 helicopter's vibration control system provides a smooth ride, resulting in less crew fatigue and the ability for medics to treat injured passengers more effectively. The cabin can also be configured with dedicated crew seats and 6 patient litters.





OPTIONS

Optional equipment is available that allows you to customize the baseline S-92 helicopter to enhance the effectiveness, mission flexibility, and crew comfort of your search and rescue mission. These options include:

- Automated Flight Control System (AFCS) with auto-hover and flight to geographic point capability
- Forward Looking Infrared (FLIR)
- Designated operator seats for two crew including FLIR console

- Dual internal auxiliary fuel tanks (2 x 210 gallons)
- Rotor Ice Protection System (RIPS)
- Dual-side bubble window
- Full-height sliding door
- Loudhailer
- Nightsun
- Cargo box
- Air conditioning
- Wire strike protection

** 22 passenger configuration not FAA certified*

POINT-TO-POINT PRODUCTIVITY

Airline Service

When you need an aircraft that is ready when you are, and has the power and capacity to fly directly to multiple locations, the airline configured S-92 helicopter is the right choice.

The S-92 helicopter is able to land in places fixed-wing aircraft can't, and is ideal for hectic point-to-point passenger service. It provides the agility and flexibility of a helicopter with the safety, comfort and productivity of an airliner. With active vibration suppressors and advanced acoustic technologies, the S-92 helicopter provides a smooth, quiet ride – so passengers can get work done or just relax.

Sized to carry 19 passengers in airliner style comfort, the cabin of the S-92 helicopter is a spacious 20 feet (6.10 m) long and 6 feet (1.83 m) tall, enough for passengers to stand and move about without stooping. The S-92 helicopter also features ample shoulder and leg room, with a 32 inch (0.81 m) seat pitch. The large cargo area allows passengers to bring more of their belongings – a big plus for leisure travel.

The S-92 helicopter can be pre-cooled or pre-heated for passengers without starting the engines. The aircraft's Auxiliary Power Unit (APU) allows climate control and lighting to assist passengers as they settle in. The S-92 helicopter provides superior air quality and even temperatures throughout the cabin with fresh air that can be controlled overhead. For added comfort heat vents provide warmth to passenger's feet. The S-92 helicopter's vibration control systems and cabin acoustic enhancements provide a smooth ride and quiet cabin. In-flight entertainment options such as movies and games are also available.





PRACTICAL AND COMFORTABLE

We offer a robust menu of optional equipment that allows you to customize the already well equipped baseline S-92 helicopter and increase your airline mission effectiveness and productivity. Options include:

- Rotor Ice Protection System (RIPS)
- Traffic Alert and Collision Avoidance System (TCAS)
- Second Distance Measuring Equipment (DME)
- Second Flight Management System
- Digital moving map
- Folding attendant seat located at forward bulkhead
- Center multi-function display
- Dual Iridium SATCOM
- ICS/entertainment system with wired jacks and headsets for 19 passengers
- Lightning sensor
- Cabin storage cabinet, commercial interior application, 27 cubic feet (0.76 cubic meters)
- Hard panel door located between cabin and cockpit
- Lavatory, located at forward section of cabin
- Galley cabinet, located at forward section of cabin (when lavatory is not selected)
- Air conditioning
- Emergency Flotation System
- Jettisonable windows
- Leather covered passenger seats
- Cabin Map System

EXCEPTIONAL SERVICE

At Sikorsky, our mission is to provide the best aircraft service in the industry.

We have over 90 years of experience supporting rotorcraft deployed globally in some of the most remote locations on earth. From battlefields to offshore oil platforms, Sikorsky has proven itself year over year to be a reliable and committed source for all services needed to keep your aircraft flying and safe.

Wherever your mission takes you, Sikorsky will be there with you.

Our support begins even before you purchase your Sikorsky aircraft. We engage with your team, understand your business needs and help you choose the appropriate aircraft and provisioning based on your mission. Our comprehensive service offering include:



Providing global support regionally through Sikorsky-authorized service centers

Pre-Operation Services

TO ENSURE YOU HAVE WHAT YOU NEED

Facility Planning Services

- Infrastructure
- Spares Planning
- Tooling and GSE

Pilot/Maintenance Training

Aircraft Delivery

In-Operation Services

TO ENSURE CONTINUED AIRCRAFT AVAILABILITY AND SAFETY

Flight Hour Based Warranty Programs

(Total Assurance Program and Powertrain Assurance Program)

AOG Resolution

On Site Support

Spares/Depot Management

Overhaul & Repair

Aircraft Modification/Upgrade Services

Publications

Product Alerts and Bulletins

Engineering Services

Pilot/Maintenance Training



State-of-the-Art Customer Care Center is open 24/7/365 to support your aircraft from Fleet Management to AOG Resolution

Help is Just a Call Away 1-800-WINGED-S

Our new state-of-the-art Customer Care Center is the heart of our customer support.

Open around the clock, fully staffed with technical and logistics experts, the center is ready to receive your call for assistance. All customer needs are logged, assigned and rapidly solved. Solutions are communicated as fast as possible and cases remain open until the customer confirms resolution. This center is staffed with the sole purpose of solving your needs to keep your aircraft available and flying.

S-92 GENERAL SPECIFICATIONS



BASELINE CONFIGURATION

The S-92 helicopter features two General Electric CT7-8A turboshaft engines with an integral particle separator and a pneumatic starting system. Also included is 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 dual 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.

PASSENGER TRANSPORTATION

Passenger Transport	2 pilots + 19 passengers with crashworthy, energy absorbing seating
Cabin volume.....	700 ft ³ 19.82 m ³
Baggage volume	140 ft ³ 3.96 m ³
Baggage area weight limit	1,000 lb..... 454 kg

OPERATING WEIGHT

Maximum takeoff weight (internal load)†	26,500 lb..... 12,020 kg
Base aircraft empty weight.....	15,575 lb..... 7,065 kg
Useful load (base config. internal load).....	10,925 lb..... 4,955 kg
Maximum takeoff weight (external load)	28,300 lb..... 12,837 kg
Maximum cargo hook load.....	8,000 lb..... 3,629 kg

PERFORMANCE (sea level, standard day, maximum gross weight, unless otherwise noted.)

SPEED

VNE	165 kts..... 306 km/h
Maximum continuous cruise speed	151 kts..... 280 km/h
Long range cruise speed (VLRC).....	136 kts..... 252 km/h

RANGE

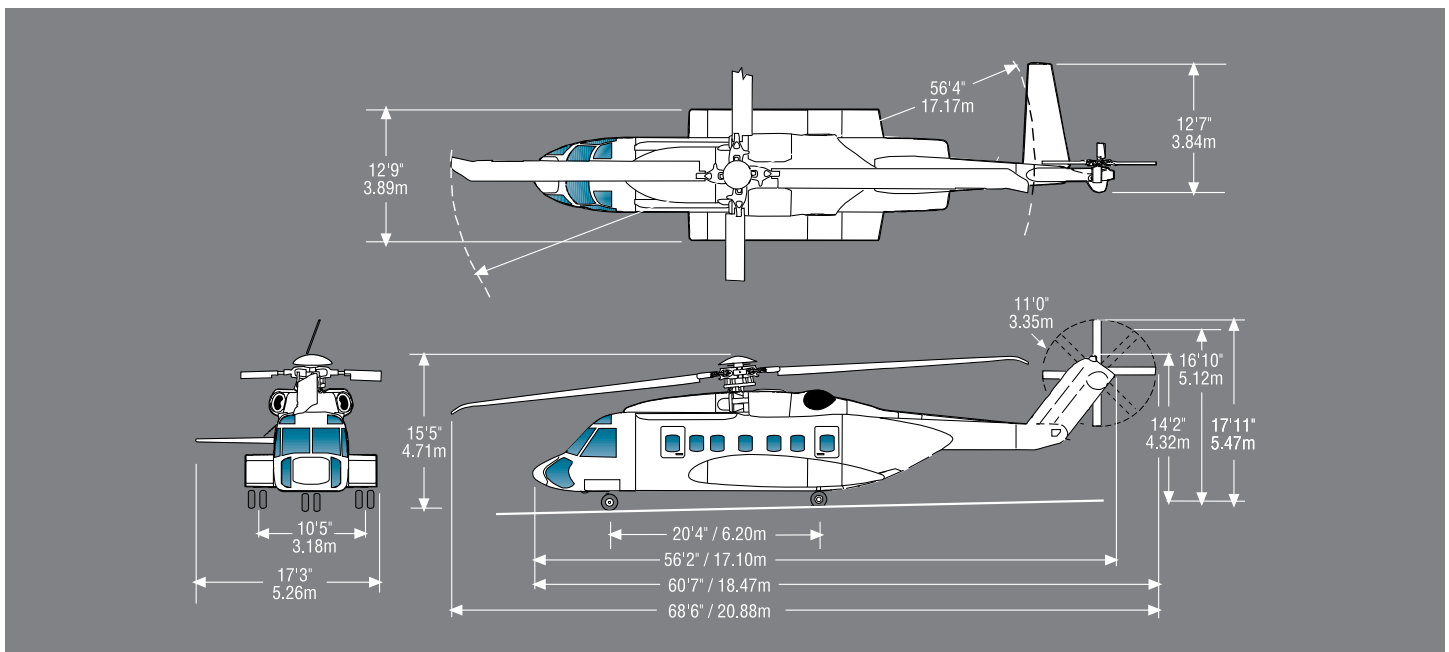
No reserve*	547 nm..... 1,013 km
30-minute reserve*	480 nm..... 889 km
Average fuel flow*.....	1,270 lb/h..... 576 kg/h
Endurance, no reserve.....	5.21 hr
Hover In Ground Effect (HIGE).....	9,200 ft..... 2,804 m
Hover Out of Ground Effect (HOGE)	6,700 ft..... 2,042 m
Service ceiling**	15,000 ft..... 4,572 m
OEI service ceiling.....	5,500 ft..... 1,676 m

* Long range cruise speed @ 4,000 ft, Standard Day (ISA); ** Density altitude

† Optional maximum takeoff gross weight 27,700 lb, 12564 kg

OPERATIONS LIMITATIONS

Minimum temperature.....	-40 °C
Maximum temperature	ISA+35
Max wind speed rotor start	55 kts..... 102 km/h
Icing conditions	Certified for flight into known icing (optional kit required)
Emergency ditching in water.....	Certified to sea state 5 or 6 (optional kits required)



WE'RE ENGINEERING A
BETTER TOMORROW

6900 Main Street, Stratford, Connecticut 06615 USA
+1 (800) WINGED-S (946-4337)
www.lockheedmartin.com/sikorsky

