



Sikorsky S-76C++ Offshore Oil Helicopter

A New Standard for Offshore Oil Transport







Works as Hard as You Do

Weather every storm. Tackle every challenge. The new S-76C++ helicopter is the ultimate workhorse for the rigorous offshore oil mission. It delivers the ideal combination of experience, reliability, and performance, along with the exceptional safety and support customers have come to expect from Sikorsky Aircraft.

Long known for setting the standard for excellence among offshore oil transport helicopters with the S-76, Sikorsky continues that legacy with the S-76C++. The S-76C series has been improved to meet the needs of today's operators and the rigors of the demanding offshore oil mission, incorporating technological advances that deliver the ultimate in safe, reliable performance day after day, mission after mission. It is the new gold standard for the offshore oil mission.

The S-76C++ features modern technology enhancements, including more powerful engines, along with important safety features and improvements. At the same time, the S-76C++ delivers maximum value and dispatch reliability while remaining extraordinarily cost-effective to own and operate.

THE BOTTOM LINE

The S-76C++ delivers a comprehensive package of improvements that has resulted in a helicopter that is far ahead of competitive rotorcraft, and just what you would expect from Sikorsky.

The Most Capable Offshore Oil Transport

The S-76C++ helicopter is a highly capable aircraft, based on the proven S-76C+ platform but with significant improvements that make it even more effective for the challenging offshore oil operating environment.

New, more powerful Arriel 2S2 engines deliver improved performance in hot or high conditions, including 350-450 pounds of additional payload capacity.

The addition of an inlet barrier filter provides outstanding engine protection for enhanced reliability with no loss of power and a reduction of operating cost.

The S-76C++ also adds Quiet Zone™ technology to the main transmission, which creates a more

comfortable working and flying environment for crews and passengers — a welcome relief after long days on a rig. Additional enhancements to the S-76C++ include the Honeywell VXP HUMS, a health and usage monitoring system as well as vibration monitoring system.

Cockpit enhancements include a new, more user-friendly quadrant, barrier filter monitor panel, and a “beeper” switch on the collective stick that enables direct control of an engine in case of a dual FADEC failure.

THE BOTTOM LINE *A range of capabilities, when coupled with an extensive selection of mission options custom tailored to the needs of the operator add up to the S-76C++ as the best-value solution for the offshore oil mission.*





Ready to Fly

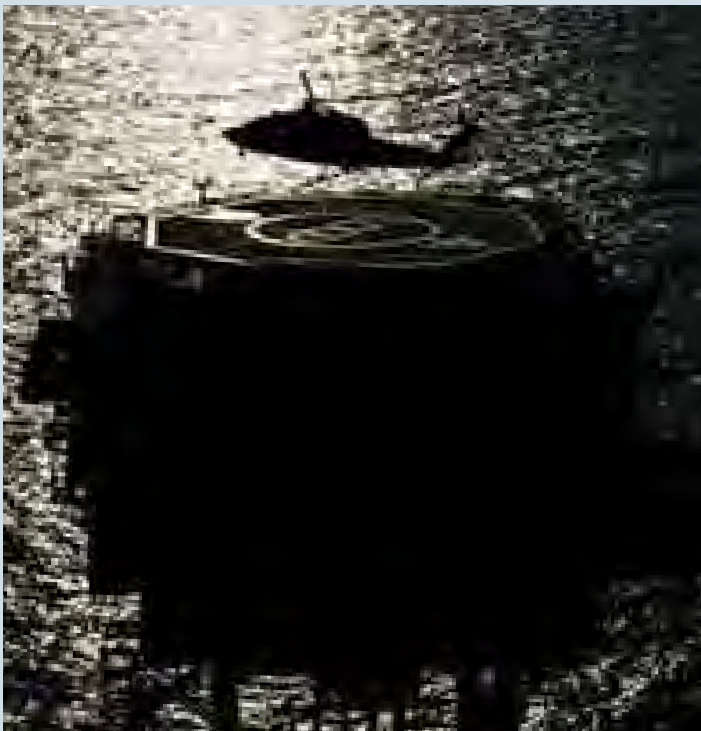
From inclement weather to rapidly changing work requirements, the offshore oil mission is often unpredictable, but your S-76C++ helicopter is anything but.

In fact, you can count on your S-76C++ to be ready to fly at a moment's notice. That's why so many offshore oil operators around the world have made the S-76 their helicopter of choice, logging more than 4 million flight hours with an astounding 98% launch availability rate. There's no need for concern about whether the helicopter will be available when and where it is needed, the S-76C++ delivers performance plus peace of mind.

And when it comes to cost-effective performance, the S-76C++ really delivers. There is no better value among offshore oil helicopters. The S-76C++ delivers low direct operating costs — the best in its class — and much more, including long range and a large cabin at an affordable price.

Improved performance, which enables operators to increase productivity, further enhances the overall value of this remarkable helicopter. It's a complete package of reliability and value.

THE BOTTOM LINE *The S-76C++ is tailor-made for the offshore oil mission.*





Comfort and Capacity to Spare

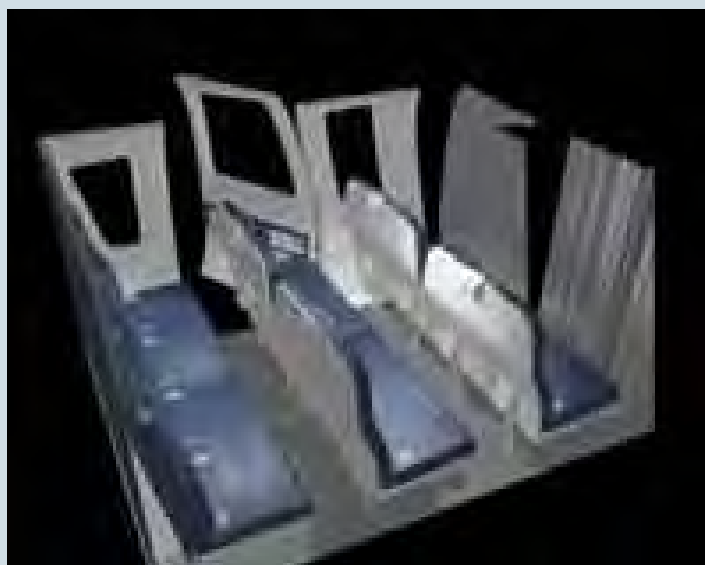
**Carry people. Carry equipment.
Do it all comfortably with the S-76C++.**

The S-76C++ gives you the flexibility and agility of a helicopter, with comfort, safety, and quietness that will exceed expectations. The spacious, air-conditioned and heated cabin and Quiet Zone technology make for an extraordinarily comfortable flight. As many as 12 passengers and two crew members will enjoy maximum head room and a quiet environment.

Your S-76C++ interior may be customized to meet your unique needs and requirements. In the standard 12-seat configuration, Sikorsky offers four two-place folding split bench seats with 4-point harness restraints and a four-place forward-facing utility divan with 4-point harness restraints.

A spacious baggage compartment accommodates 38-cubic feet of whatever you want to carry, and the large-capacity cabin is more than 8-feet long.

THE BOTTOM LINE *With an array of high-quality features and amenities, the S-76C++ builds on the best of the proven S-76 helicopter for the ultimate in top-notch transportation for the offshore oil mission.*

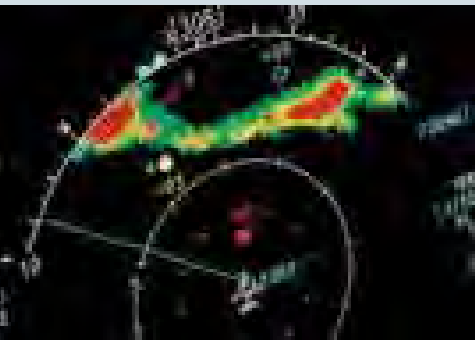




Made for the Mission

Sikorsky's S-76++ helicopter is ideally designed and configured to perform the offshore oil mission with maximum flexibility and effectiveness.

Its superior speed, range, and payload distinguish it as a top performer, and its 98% dispatch reliability ensures that the S-76C++ helicopter is ready to perform when and where you need it. In addition, the S-76C++ features a large, rectangular cabin, spacious enough to accommodate passengers comfortably in a variety of flexible configurations.



The S-76C++ helicopter features weather radar and is certified for single- and dual-pilot instrument flight rules.

The S-76C++ delivers a performance edge that translates into a competitive edge for offshore oil operators. Carry more, and operate more safely and comfortably than ever before with the S-76C++.

First, there's more power – the S-76C++ features two Arriel 2S2 engines

with six percent more power than previous models, fuzz burn chip detectors, new oil seals, and the ability to carry a passenger in each seat and still fly over 250 nautical miles. A new engine barrier filtration system protects your valuable engines from dirt and foreign object damage, and reduces maintenance requirements with no loss of power. The rotor brake can stop the main and tail rotors with engines running for enhanced safety.

Because you need to fly safely in any weather and any time of the day or night, the S-76C++ features weather radar and is certified for single- and dual-pilot instrument flight rules – and even meets the single-engine inoperative requirements for JAR Ops 3, with approved Class 2e performance procedures.

It also features a fully coupled four-axis autopilot for safe flight and reduced pilot workload in sub-par weather. A four-blade flexbeam tail rotor ensures positive handling characteristics in 35-knot crosswinds. A dual Full Authority Digital Engine Control (FADEC) system further enhances performance and safety in a high-consequence environment. Computerized engine control also allows the availability of "Blow Away Power." This allows a pilot the use of engine power greater-than-normal twin-engine limits for a short period of time to escape from a potentially dangerous situation.

The Automated Flight Control System, and Enhanced Ground Proximity Warning System (EGPWS) further distinguish the S-76C++ as the gold standard in offshore oil transport helicopters.

THE BOTTOM LINE *The S-76C++ delivers a performance level that translates into a competitive edge for offshore oil operators.*









Fly with Confidence

Designed with a multitude of safety features, the S-76C++ is a helicopter you can fly with peace of mind and confidence.

The S-76 features an outstanding and enviable safety record over two decades and 4 million-plus flight hours. Today's S-76C++ is building on this legacy with an array of proactive safety features, including redundant systems for flight controls, avionics, hydraulic systems and cockpit displays. Of course, the S-76C++'s improved performance, with new more powerful engines, also delivers an enhanced margin of safety.

The Enhanced Ground Proximity Warning Systems (EGPWS) is a terrain avoidance warning system that is standard equipment on the S-76C++. It delivers all-weather safety in changing environments – so you may fly with confidence day and night.

A Vibration Monitoring System and Helicopter Operations Monitoring Program (HOMP) that capture, monitor and record operational flight data are offered as options. Additionally, a full suite of optional equipment designed to enhance crew and passenger survivability in the unlikely event of an emergency water are available. These options include an Emergency Flotation System (EFS) and Automatic Flotation Deployment System (AFDS).

When Safety Matters Most

Safety on the ground and in the air — for crew and passengers alike — is a top priority for offshore oil operators. Sikorsky shares that concern for safety, and safety features have been designed into the S-76C++ helicopter at every turn.

THE BOTTOM LINE *Sikorsky knows that the only successful mission is a safe mission, and the S-76C++ is designed to keep you safe from launch to landing.*



S-76C++ safety features



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|-----------------------------------|--|
| ① New Arriel 2S2 engines | ⑥ Automatic flotation system |
| ② Dual FADEC | ⑦ Honeywell VXP HUMS (optional) |
| ③ Engine inlet barrier filters | ⑧ EGPWS terrain awareness |
| ④ Sikorsky Quiet Zone™ gear box | ⑨ Cockpit Voice Recorder (CVR) |
| ⑤ Four-point cabin harness design | ⑩ Life raft deployment system (optional) |



Standard equipment on the S-76C++, the Enhanced Ground Proximity Warning Systems (EGPWS) is a terrain avoidance system that provides visual and audio cues to pilots.



The S-76 C++ offers jettisonable cockpit doors, pop-out windows, and large doors with a user-friendly single-action release mechanism.



The rotor brake can stop the main and tail rotors with engines running for enhanced safety when the helicopter is on a rig or on the ground.

Support That Exceeds Your Expectations

A forward-thinking support program that caters to the needs of high-tempo operations makes owning an S-76C++ helicopter just as rewarding as flying one.

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.

We keep you 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, through our partners at Flight Safety International and Worldwide Customer Support, also offers full-motion Level D flight simulation, engineering support, and will assign your program a single point-of-contact to simplify the support process across-the-board.

THE BOTTOM LINE *Anytime and anywhere, the S-76C++ worldwide customer service team will work with you to increase flight readiness, improve ease-of-use, and reduce costs.*





Among the many programs of Sikorsky's outstanding customer service are a 24-7-365 help desk, flight training on super-realistic Level-D flight simulators, a full aircraft maintenance trainer, overhaul and repair facilities, field service representatives and an ample spare parts inventory.



S-76C++ Configuration and Options

Basic configuration

The enhanced S-76 C++ helicopter builds on the proven legacy of over 600 S-76 helicopters delivered to date with two updated, dual-FADEC-controlled Turbomeca Arriel 2S2 engines and a full-coverage inlet barrier filter.

The basic cockpit features a four-axis, fully coupled autopilot, Integrated Instrument Display System (IIDS), Honeywell 4-tube EFIS and a Collins Proline II avionics suite with dual comm/nav, ADF, transponder, DME and a radio altimeter with an expanded scale indicator. Cockpit data is provided by a solid state air data system featuring dual AHRS and dual air data computers. The S-76 can be certified for single pilot IFR operations and, to ensure increased safety, all S-76C++'s are

now equipped with the Enhanced Ground Proximity Warning System, and a Cockpit Voice Recorder.

For cockpit environmental control there is a bleed air heating defogging system and dual windshield wipers. The pilot and copilot seats come with a five point restraint system.

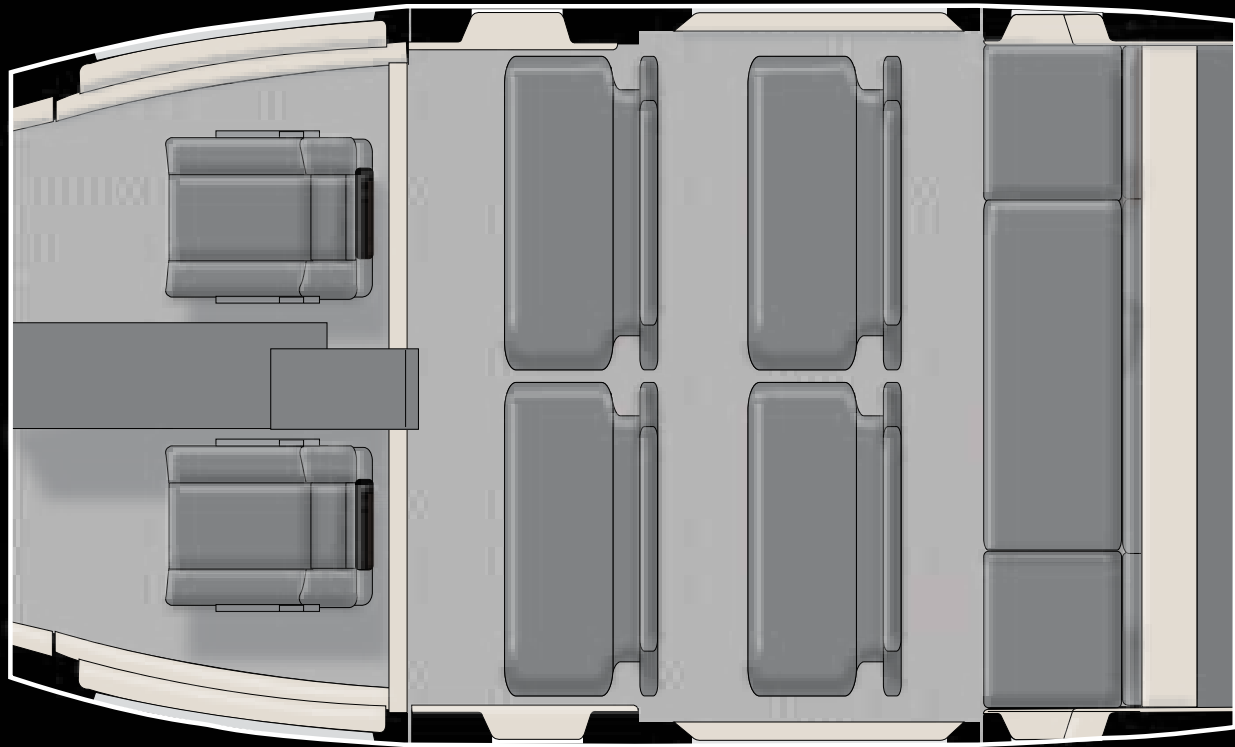
The large, rectangular cabin and 38-cubic foot baggage compartment can be custom configured for any application. Speed, long range and a smooth ride are ensured by the fully articulated rotor system derived from the U.S. Army's BLACK HAWK, elegantly clean airframe, retractable landing gear, and 281 gallons of usable fuel.

S-76C++ Offshore Oil equipment	Baseline	Available options
4-tube EFIS	•	
Automatic flight control system	•	
Audio control panels with ICS and VOX	•	
Passenger briefing system	•	
Enhanced ground proximity warning system	•	
ELT with satellite frequency	•	
Single action door release	•	
Wx avoidance radar	•	
Engine inlet barrier filter	•	
Cabin ICS		▲
Moving map/GPS		▲
CVR/FDR		▲
Automatically deployable ELT		▲
VXP vibration monitoring system		▲
Push-out cabin windows		▲
Snow kit		▲
HEELS exit lighting kit		▲
Aero seats life raft deployment system		▲
Floats completion		▲
Automatic deployment system for flotation		▲
Cargo hook provisions		▲

S-76C++ Cabin

Offshore Oil cabin configuration

With its large rectangular cabin, the S-76C++ helicopter maximizes useful space. A separate cargo area provides stowage for passenger baggage, providing for more room in the cabin.



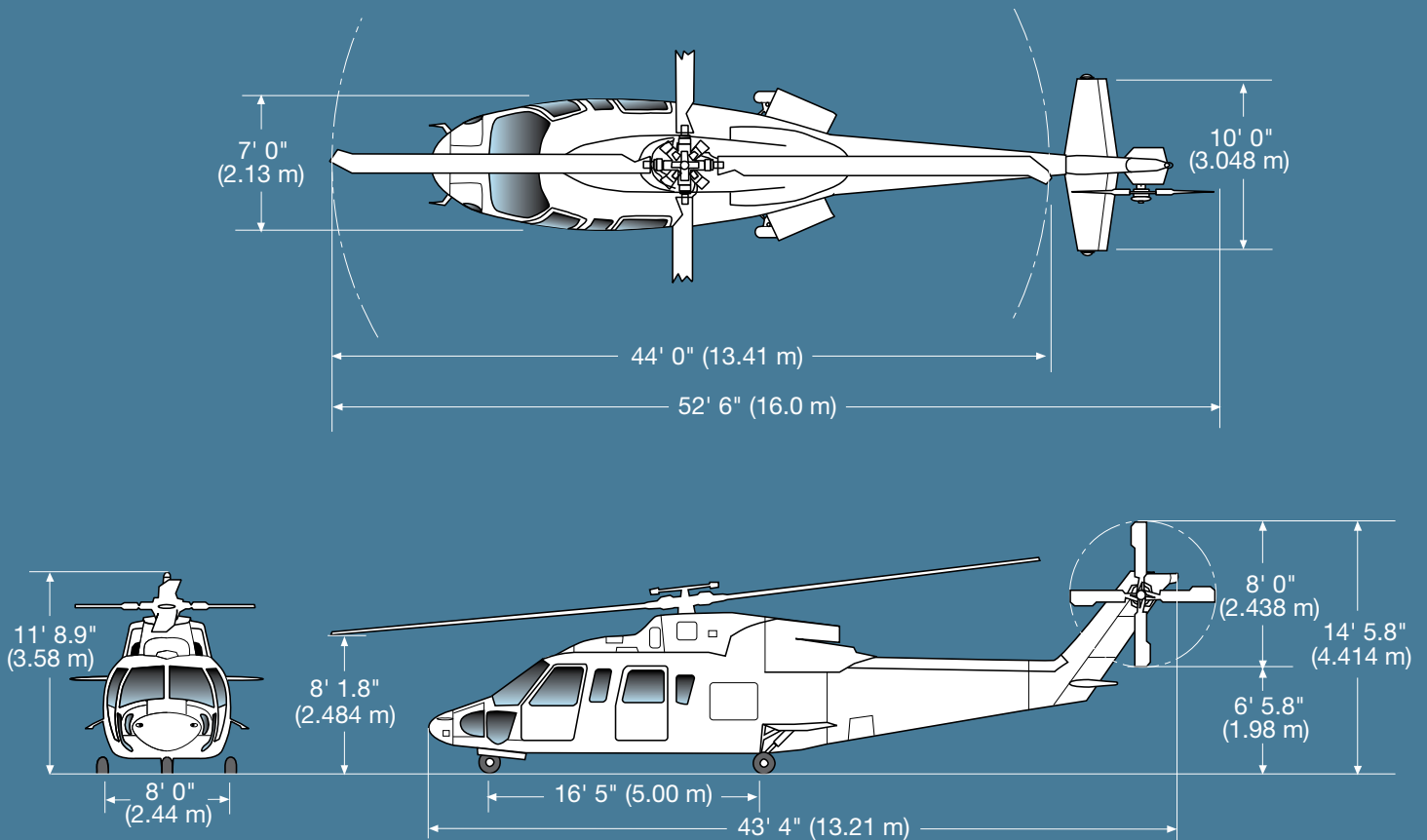
12-passenger configuration

S-76C++ Specifications

Standard Day, Sea Level at maximum gross weight unless otherwise noted

Maximum speed (VNE)	155 kts	287 km/hr
Maximum cruise speed (VH)	155 kts	287 km/hr
Hover ceiling, In-Ground Effect (TOP)	7,050 ft	2,149 m
Hover ceiling, Out-of-Ground Effect (TOP)	3,300 ft	1,006 m
Single engine service ceiling	4,900 ft	1,493 m
Mission Range - long range cruise speed @ 4,000 feet		
- with 30 minute reserve	345 nm	639 km
- no reserve	411 nm	762 km
- average speed	137 kts	254 km/hr
- average fuel flow	620 pph	281 kg/hr
Maximum takeoff gross weight	11,700 lb	5,306 kg
Empty weight, utility configuration*	7,005 lb	3,177 kg
Useful load, utility configuration*	4,695 lb	2,129 kg

**Weights will vary by specific mission configuration*



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

People on the move know that Sikorsky is the only way to fly. As the world's premier provider of offshore oil transport helicopters, 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 the S-76C++ helicopter, please contact our sales specialist.

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



Sikorsky

A United Technologies Company

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