



Sikorsky S-76D™ Executive Transport Helicopter  
*Setting a new standard for executive transport*







## Expectations. Performance. Leadership. The Elements of Your Success.

As a leader, you expect exceptional performance from yourself, from your associates and from the tools and equipment that drive all that you do.

These are the same elements of success Sikorsky Aircraft Corporation has embraced in developing the S-76D™ executive helicopter. Above all, the focus is on performance from the company that pioneered and perfected the modern helicopter.

For more than three decades, corporate executives and heads of state have recognized the S-76® series as the standard of excellence for personal transportation. The S-76 series, with more than 5.0 million flight hours of time tested value in rotor wing transportation, is the solid foundation of the new S-76D helicopter.

The S-76D helicopter brings together the advanced technology, comfort and safety you have come to expect from Sikorsky. It also embraces the highest level of proven helicopter reliability in today's marketplace: the ultimate combination of productivity and performance.

# Comfort and Convenience

The large, comfortable and quiet cabin has been refined to meet the exacting needs of the Fortune 500 business traveler. It can be configured to meet your personal requirements, as an extension of your office to add to your productivity. The S-76® helicopter's strengths include low internal acoustic levels and a smooth ride.

Sikorsky's active vibration control and Quiet Zone™ transmission technology assures that your flight is extraordinarily smooth and whisper quiet. The acoustically enhanced environment of the cabin allows you to conduct business conversations or just relax and enjoy the flight. Sikorsky can schedule a demonstration flight at your convenience, allowing you to personally experience the smoothest and quietest executive helicopter for yourself.

While the S-76D™ helicopter is quiet inside, your neighbors will also appreciate that it's quieter outside as well. In this version, Sikorsky introduces a cutting edge technology quiet tail rotor, improved main rotor blades and an innovative rotor system that will alter its rotor speed in flight for reduced external noise.

The combined effect of these technologies results in a helicopter that meets the most stringent proposed noise standards.





Custom interior shown



# Ride in airborne luxury



Low noise and a smooth ride are only part of the S-76D™ helicopter passenger experience.

Sikorsky designers will work with you to develop a customized interior to tune the large airy S-76® aircraft cabin to your needs and desires. We offer a wide variety of cabinetry and seating configurations ranging from five to eight passengers.

You can choose from a wide variety of fabrics, leathers, colors, amenities and features to make the S-76D helicopter cabin reflect your personal style.

Entry and exit are easy through large, limousine-like cabin doors with electrically extendable steps. The unique ability of the S-76 helicopter to hold the rotor system still while running an engine to supply electrical power to the on-board air-conditioning system allows safe, comfortable loading and unloading into a cabin pre-cooled to a comfortable temperature.

*Optional interior shown*

# Effective executive transport

Comfort and luxury aren't enough. Your executive transportation must get you to your destination reliably and with the tools to do business in flight. Customized satellite telephones, flight progress displays, entertainment systems and refreshment cabinets will keep you connected and fit for business when you arrive (on time) at your destination.

Because arriving on time, every time, is important, Sikorsky has designed the S-76D™ helicopter to be able to fly in all weather. Optional de-iced main and tail rotor blades will allow the S-76D helicopter to get you there safely and reliably when other helicopters must sit on the ground and wait.





# Powerful, Reliable, Safe

The superior performance of the S-76D™ helicopter is the culmination of more than 30 years of technology advancement for the aircraft. The result is a combination of attributes that will keep the S-76D helicopter best-in-class.

The S-76D helicopter benefits from a new Pratt and Whitney Canada engine. The PW210S twin turbines provide increased horsepower without increasing fuel consumption. The additional horsepower translates into improved take-off and landing performance.

The S-76D helicopter will perform Cat A takeoffs at gross weight on hot, humid days. All of this with the ensured reliability, ease of maintenance and the support of the world's leading engine manufacturer – Pratt & Whitney.

These advancements in engine technology also give the aircraft extended endurance of up to

three hours. The result is a helicopter with excellent power-to-weight ratio and best in class fuel burn.

The PW210S engines' low fuel consumption contribute to lower carbon emissions. The engines incorporate dual channel Full Authority Digital Electronic Controls (FADEC) with state-of-the-art diagnostic capability. New all composite main and tail rotor blades incorporate Sikorsky's optional Rotor Ice Protection System (RIPS) that enhance aircraft safety when launching into known icing conditions, a key benefit for dispatch reliability.

The aircraft's main rotor hub is a derivative of the rotor hub on UH-60 BLACK HAWK helicopters, a system that has flown successfully for millions of hours in every imaginable flight environment.





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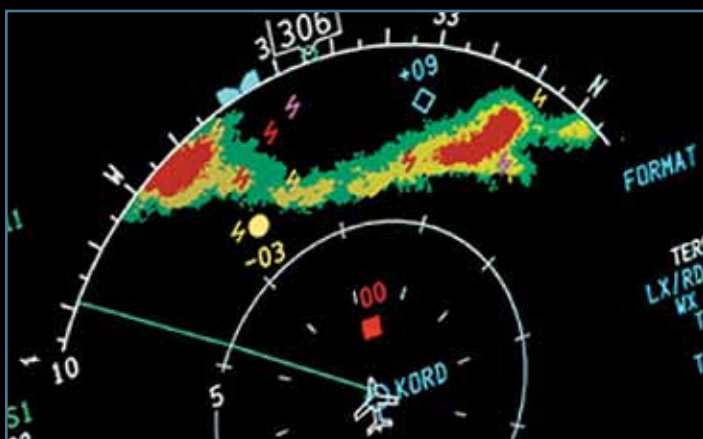
# Modern Cockpit Technology

The S-76D™ helicopter features state-of-the-art cockpit technology from Thales that is equal in sophistication with your corporate jet and today's modern airliners. In fact the S-76D helicopter is the only aircraft to offer the THALES TopDeck® avionics suite specifically designed for helicopters.

Easy to read, large-format liquid crystal displays have been consolidated in an efficiently designed console for improved visibility and field of view. Other features such as innovative trackballs for cursor control on the display units, customer defined custom checklist uploads and built in emergency procedures promote ease of use. An optional digital map with integrated Jeppesen approach plates is also available. The avionics suite enables additional situational awareness for the pilots, reducing workload and enhancing safety.

Proven in other aircraft installations, the sophisticated Thales TopDeck avionics package includes a four-axis, fully coupled autopilot to reduce workload and provide additional margins of safety. This technology allows for single or dual pilot Instrument Flight Rule (IFR) operations, a feature critical to safe operations in changing weather conditions.

The Thales solution is a mature application designed for the helicopter. It is proven and reliable and fully supported through Sikorsky Aerospace Services.





# Safety You Expect From Sikorsky

After more than 5.0 million hours in flight, the S-76® helicopter has an outstanding and enviable record for safety and reliability. The S-76D™ executive helicopter builds on that legacy with leading-edge safety features, including redundant systems for flight controls, avionics, cockpit displays and a health monitoring system that captures and records operational data. Now Sikorsky partners with Flightscape to provide an OEM supported Helicopter Flight Data Monitoring (HFDM) solution. HFDM can replay flight operations and supports JAROPS 3 compliance.

Coordinated through Sikorsky's Fleet Management Operations Center, this solution combines solid support systems, based on long-standing and proven maintenance programs, with state-of-the-art capabilities that are unique to the industry.

An Enhanced Ground Proximity Warning System (EGPWS) is standard on the S-76D executive helicopter. A combined Flight Data Recorder (FDR) and Cockpit Voice Recorder (CVR) are also standard.

## **Safe, reliable flight in all weather situations**

Because your need to travel can be anytime and in any conditions, the S-76D executive helicopter is designed and equipped for safe, reliable flight in all weather situations. Fly with peace of mind in any environment and over all terrain. In addition to protection against main and tail rotor icing, the S-76D aircraft is protected against lightning strikes and sensitive avionics are shielded to protect against electromagnetic interference.

Additionally, passengers and crew survivability equipment includes an integrated Emergency Flotation System (EFS), with an Automatic Flotation Deployment System (AFDS) as an available option.

These safety and high reliability components are designed into the S-76D executive helicopter, significantly increasing aircraft safety.





### Cutting edge features include:

- ① PW210S engines
- ② Dual Channel FADEC with diagnostics
- ③ Ice diverting engine inlets
- ④ Rotor Ice Protection System - optional
- ⑤ Thales TopDeck™ avionics solution
- ⑥ Goodrich Vigor™ HUMS
- ⑦ Honeywell EGPWS
- ⑧ Cockpit voice recorder / flight data recorder



### EGPWS Safety Benefits

- EGPWS knows where the helicopter is and what it is doing relative to surrounding obstacles and terrain.
- Helicopter position and flight path is determined through an interface with the onboard Global Positioning System (GPS) and other sensors.
- Surrounding obstacle and terrain information is available from onboard sensors and the EGPWS updateable database.
- Information is presented to the aircrew in both visual and aural format.
- EGPWS gives pilots knowledge of surrounding terrain and obstacles regardless of flight visibility as available options.

# Full Service Support, Where and When You Need It

Sikorsky's pioneering spirit has been leveraged into the world's most comprehensive system for product support. Sikorsky Aerospace Services combines solid support systems that are based on long-standing and proven maintenance programs with state-of-the-art capabilities that are unique to the industry. A mature aircraft, combined with Sikorsky360 provided by our established support organization, equals predictable reliability. Successful prior development and quality assurance program history ensures the S-76D™ aircraft will be more dependable.

Sikorsky's OEM heritage combined with the full range of fleet management capabilities in Sikorsky Aerospace Services produce unparalleled product support. Elements of this time tested value include;

- Factory technical assistance
- World-class training in partnership with FlightSafety
- Customization and completion services
- Spares and components
- Associated Aircraft Group for additional flight support needs

The S-76D helicopter is designed to minimize service requirements and to be easily maintained when required. To ensure your S-76D aircraft is supported, Sikorsky Aerospace Services maintains a worldwide service and support organization that includes 24/7 access to spare parts, overhaul and repair, training, on-site technical and logistics representatives, ground support equipment, publications and more.

Sikorsky's partner, FlightSafety International, offers a full motion Level D flight simulator, for initial and recurrent training.

*Among the many programs of Sikorsky's outstanding customer service are a 24-7-365 Fleet Management Operations Center, 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.*





*HUMS captures vast amounts of information from the aircraft that Fleet Management Operations Center (FMOC) monitors 24/7. FMOC personnel evaluate inconsistencies of individual aircraft performance against fleet trends to proactively make maintenance recommendations.*



# Configuration and Options

## Basic configuration

The new S-76D™ helicopter builds on the proven success of over 700 S-76® series aircraft delivered. Propulsion is supplied by two Pratt & Whitney Canada PW210S engines with dual FADEC and expanded diagnostics.

The redesigned instrument panel features the integrated Thales TopDeck® avionics system with four large format flat panel displays. The open architecture panels can display attitude indicator, navigation, digital map, flight plan management, systems data monitoring, warning advisory system and other performance management elements. The Collins Pro Line 21 dual nav/comm, Goodrich Vigor® HUMS and Honeywell Primus® 660 complete the suite. Cockpit data is provided by a solid state air data system featuring dual AHRS and dual air data computers. The S-76D aircraft is certified for single pilot IFR and, to ensure safety, all S-76D helicopters are equipped with EGPWS, combined cockpit voice recorder / flight data recorder,

and 406 MHz ELT. TCAS1 (KTA970) is also available as an option.

The four, flaw tolerant main rotor blades feature an all-composite spar, wider chord, enhanced air-foil and integrated tip caps. Main and tail rotor blades and hubs have optional de-ice capabilities through the Rotor Ice Protection System (RIPS) field-proven on the S-92. Quiet Aircraft Technology Designation standards are achieved through a new tail rotor blade design and in-flight dual speed rotor system.

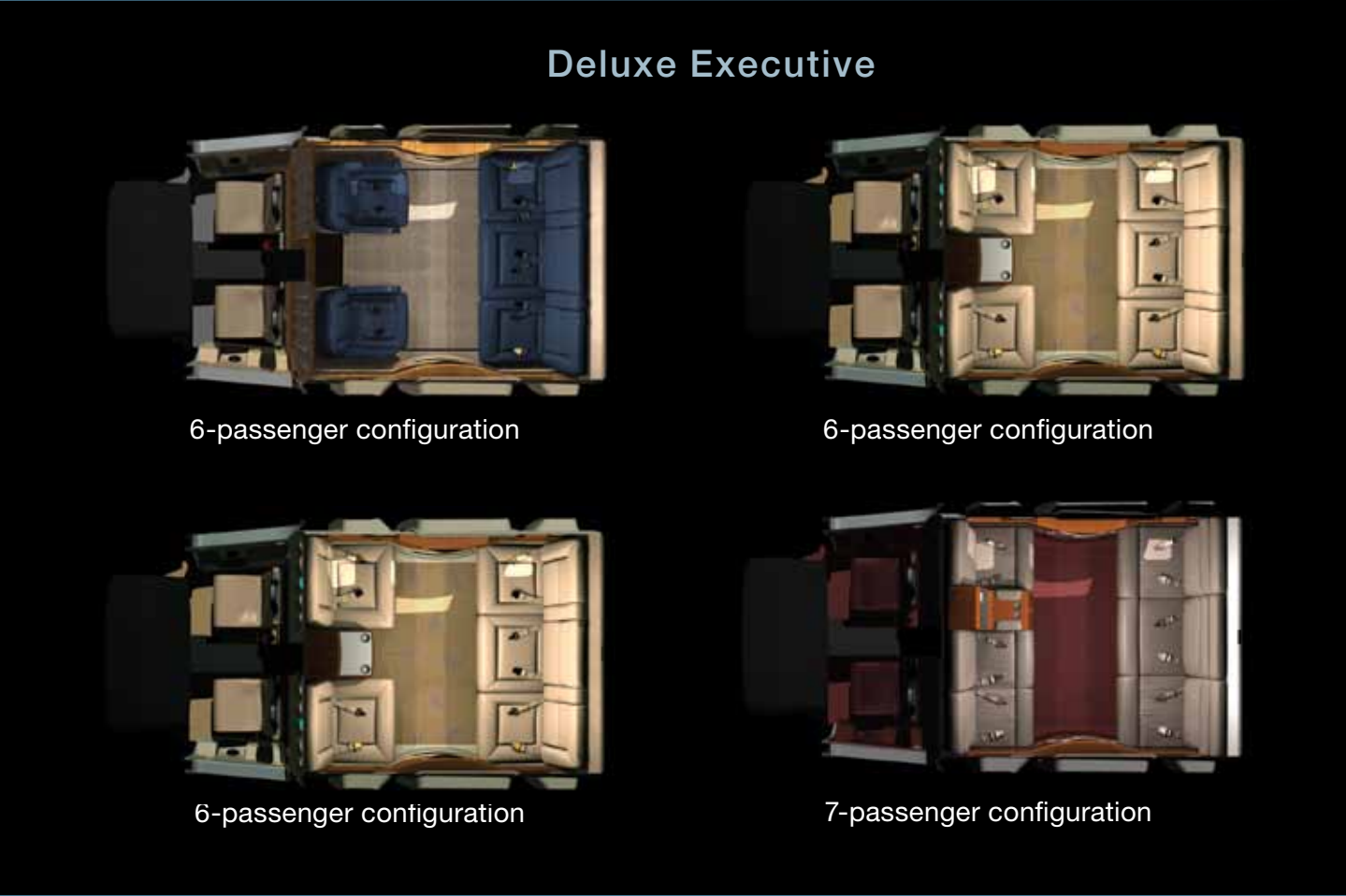
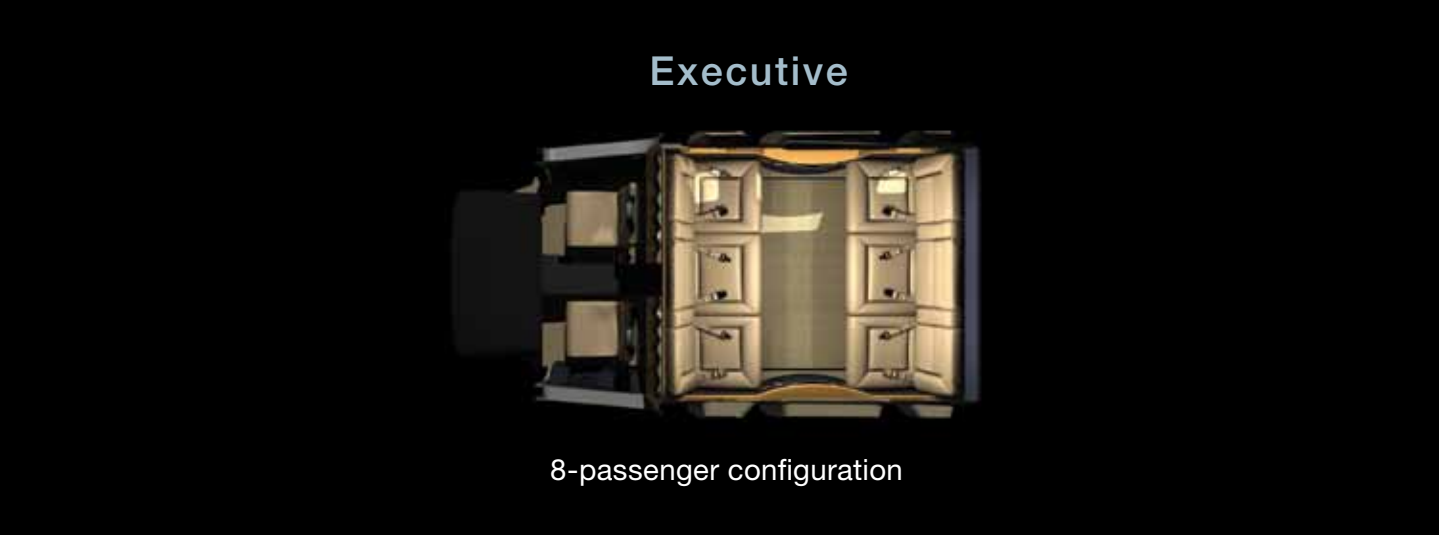
The large, rectangular cabin and 38-cubic foot baggage compartment can be custom configured for many mission applications. Speed, long range and a smooth level ride are ensured by the fully articulated rotor system and Active Vibration Control system. The elegantly clean airframe, retractable landing gear and 296 gallons of usable fuel complete the basic configuration.

S-76D EQUIPMENT	Executive	Deluxe Executive
Traffic Alert & Collision Avoidance System (TCAS I) displayed on the MFD	●	▲
Digital moving map on Thales MFD	●	▲
Satellite communications system with cockpit dialer and cabin handset	●	▲
Primus 880 color weather radar	●	▲
Executive paint finish	●	▲
Active Vibration Control System (AVCS)	●	▲
Deluxe VIP Interior Group:		
- "Silencer" interior with secondary acoustic package	●	▲
- Ultraleather or Ultrasuede interior panel upholstery	●	▲
- Individual reading lights and air outlets	●	▲
- Wood/veneer/leather/metal decorative details	●	▲
- Tinted cabin windows	●	▲
- Cabin carpeting	●	▲
Aft facing divan with folding tables and armrest	●	
Forward facing divan with under seat storage cabinets	●	
Single retractable boarding step	●	
Air-conditioning system with panel switches	●	
Aft facing executives' seats		▲
Forward facing divan with folding table and armrest		▲
Refreshment center cabinet		▲
Cockpit / cabin climate control system (C4)		▲
Dual retractable boarding steps		▲
Flotation System		▲

# Flexible Cabin Options

## Executive Transport cabin configurations

The large rectangular cabin of the S-76D™ helicopter with the Silencer™ noise reduction system can be custom configured to meet your requirements in style and comfort. Seating options are illustrated below. Our interior design and completion experts will assist in developing the interior that's right for you.

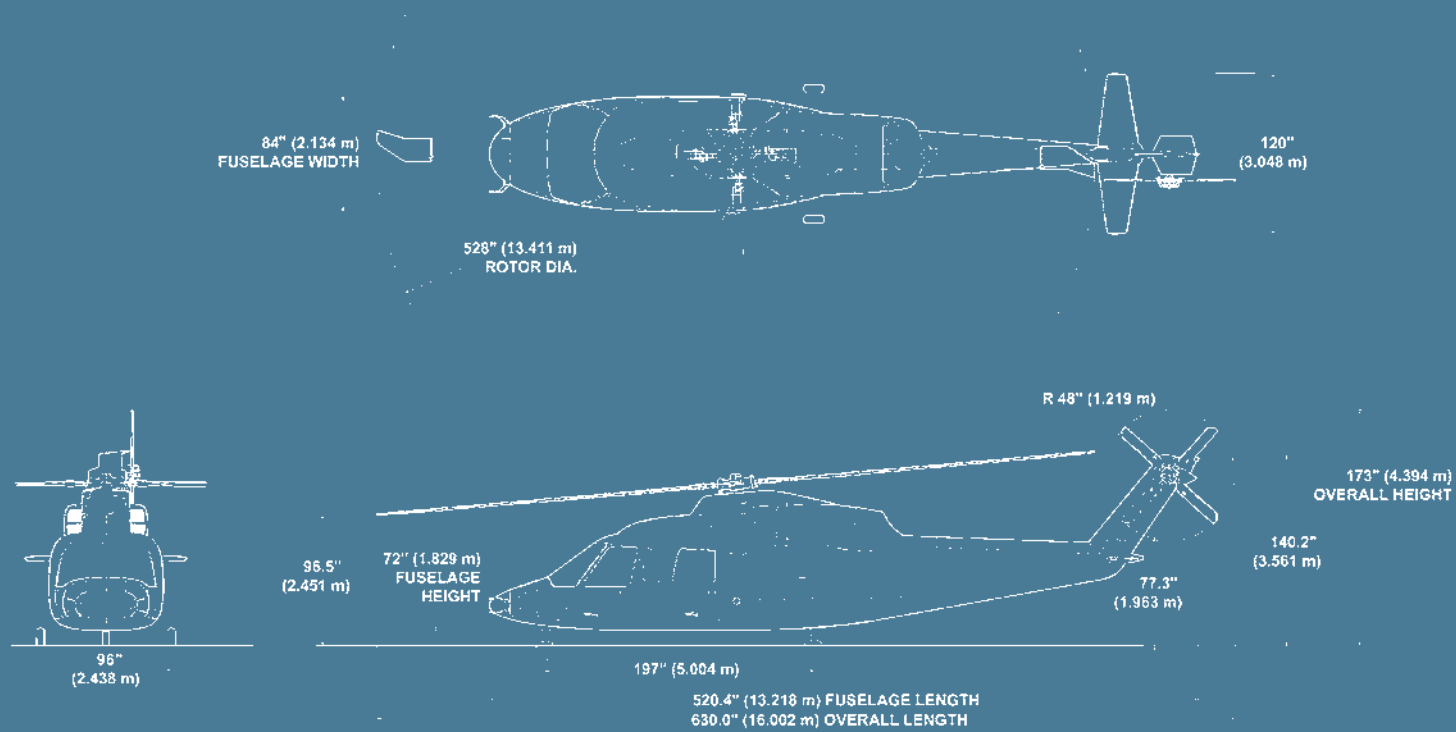


# Specifications

*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)	9,700 ft	2,957 m
Hover ceiling, Out-of-Ground Effect (TOP)	5,000 ft	1,524 m
Single engine service ceiling	7,550 ft	2,301 m
Range - long range cruise speed @ 4,000 feet		
- with 30 minute reserve	374 nm	693 km
- no reserve	450 nm	834 km
- average speed	144 kts	267 km/hr
- average fuel flow	628 pph	285 kg/hr
Maximum takeoff gross weight	11,700 lb	5,306 kg
Empty weight, utility configuration*	7,209 lb	3,269 kg
Useful load, utility configuration*	4,491 lb	2,037 kg

*\*Weights will vary by specific mission configuration*




## Best Executive Helicopter - Period

The S-76D™ executive helicopter makes the best even better. For reliable performance, safety and support, no other aircraft comes close to the S-76D helicopter.

Add comfort, reliable operations, state-of-the-art technology, exceptional performance, increased operational productivity and worldwide support and the S-76D helicopter exceeds every alternative. When considering your next helicopter purchase, consider Sikorsky – we will always be here, bringing time-tested helicopter value that continues with the introduction of the S-76D helicopter.

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



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**Sikorsky**

A United Technologies Company

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