

Lockheed Martin
Your Mission Is Ours.™



SIKORSKY
**ARMED
BLACK HAWK®**

Multi-mission Lethality for the Attack

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Stratford, Connecticut 06615 USA
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Proven, Reliable
& Versatile

SIKORSKY **ARMED BLACK HAWK**

Multi-mission Flexibility and Firepower
with BLACK HAWK Dependability

The aircraft the world depends on as the preeminent multi-mission utility helicopter can now be equipped by the Original Equipment Manufacturer to provide ATTACK helicopter missions.

We believe that the Black Hawk helicopter can provide a valuable resource to customers who have important, day-to-day vertical-lift needs. The Black Hawk was designed to meet a variety of missions. Now, we can provide a variety of Attack capabilities in an integrated solution.

BLACK HAWK:

More missions, more value than any other medium-class tactical helicopter.





ARMED



EXTERNAL LIFT



COMMAND & CONTROL



SEARCH & RESCUE



VIP TRANSPORT



MEDEVAC



COMBAT ASSAULT



FIREFIGHTING

VERSATILE

Armament Kit Enhances the BLACK HAWK's Multi-mission Capability

Versatile, dependable and rugged are just three reasons why 33+ nations depend on BLACK HAWK helicopters for multi-mission support.

Today's complex and fast-changing operating environments demand an aircraft that is multi-role with proven logistics that meets your budget. Attack-only aircraft are sophisticated platforms designed to fulfill a single mission at a very high-cost; whether you apply that mission or not.

The Armed Black Hawk helicopter's multi-mission lethality enables commanders to utilize 100% of its inherent capability, no matter the mission. Armed or Un-Armed, BLACK HAWKs will work for you.

ARMED BLACK HAWK HELICOPTER

- Flexible firepower configurations that are scalable to meet your threats
- Capability to transport armed vehicles (9000 lbs - 4082 kg)
- Capability to insert and extract teams
- Capability to transport troops and supplies as well as provide the fire power to complete mission
- Safe, Reliable, Survivable, Crashworthy and Ballistically tolerant
- Capable of supporting aircraft self defense & survivability equipment (radar/laser warning) completion



Battlefield Support
for the Soldier

SOLDIER READY

Our helicopters support soldiers and aircraft operators world-wide. They rely upon the Black Hawk for missions, for support and sometimes survival. It's why we ensure, validate, qualify and certify every aircraft and every option installed so that it will perform when you need it most.

STATE OF THE ART MISSION SYSTEM

On the attack, the soldier is provided a state of the art mission system combined with the best armament in the industry. On the defense, the soldiers are provided with equipment that enhances situational awareness on the battlefield, from an unmatched platform that is engineered to be crashworthy and tolerant of ballistic impact.



DUAL M-134 MINI-GUNS

- Electrically powered 3000/4000 RPM
- Capability to be mounted in a fixed forward position or controlled independently for all ranges of motion



DUAL M3M .50 CALIBER GUN

- High firing rate (1025 RPM)
- Capability to be controlled independently for all ranges of motion



KEY DISCRIMINATORS

Advanced Capabilities & Performance for Mission Success

ARMED BLACK HAWK



Weapons Management System for control, viewing, targeting firing and ballistic calculation

Combat proven GE T701D Powerplants provide superior one engine out performance

Composite Wide-chord Main Rotor Blades provide excellent performance in hot temperatures at high altitudes

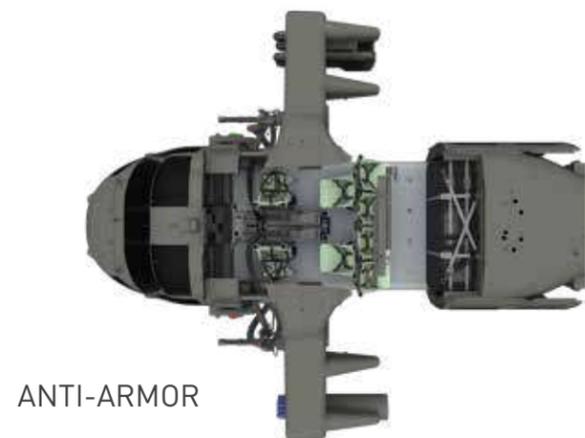
State-of-the-art Optics. Thermal imaging with data overlay, range finder and laser designation

GAU-19 - Area suppression and point targets in both air and ground missions



Hellfire Missiles - precision guided for lock-on target flexibility. 2/4 rail capacity/16 max load

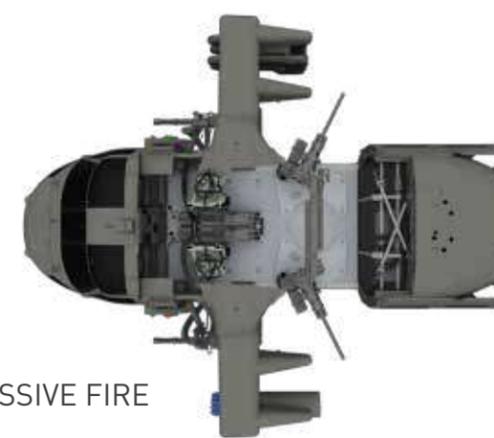
Unguided & Laser Guided 70mm Hydra rockets with 5000m range. Highly accurate -76 max capacity



ANTI-ARMOR



AIR ASSAULT



SUPPRESSIVE FIRE



SURVEILLANCE/ ARMED RECONNAISSANCE

Employ the power of the EO/IR sensor during scout missions. Armed with 70mm rockets and fixed-forward or crew-served .50 caliber and 7.62mm machine guns.



AIR ASSAULT

Fill the cabin with 11 troops and two gunners armed with 7.62mm machine guns. Or remove all the seats and load the cabin with cargo. Provide external sling-load operations on the move.



SUPPRESSIVE FIRE

Suppress combatant ground threats with a high-rate of sustained firing from 70mm (2.75in) rockets and .50 caliber forward firing guns.



ARMED ESCORT

Protect ground convoys or coastal boat traffic with 70mm rockets and fixed-forward or crew-served .50 caliber and 7.62mm machine guns.



ANTI-ARMOR

Terminate tanks and other armored vehicles from stand-off distances or on the move. Up to 16 Hellfire missiles.



Top of the Line Weapons Management System



MISSION READY

An easy to use weapons management system that is integrated, not added

Sikorsky has seamlessly integrated a highly-functional, easy to use and maintain Weapons Management System, EO/IR Sensor and Helmet Display and Tracking system. The WMS is integrated directly into the existing Multi-function displays and Flight Management System, providing both pilots control of the weapons system. Pilot and Co-pilot situational awareness is enhanced through the EO/IR sensor and advanced Heads-up-display and Head tracking system that enables any Black Hawk Pilot to put first rounds on target.



WEAPONS MANAGEMENT SYSTEM

- Control and firing of various weapons
- Viewing and managing weapons inventory during flight
- Loading of pre-defined weapons configuration
- Target designations and target paging
- Weapons ballistic calculation



ELECTRO-OPTICAL AND INFRARED SENSOR

- State-of-the-art optics for surveillance to armed reconnaissance missions
- Thermal imaging with data overlay, range finder & laser designation
- Digital video recording integrated into the WMS

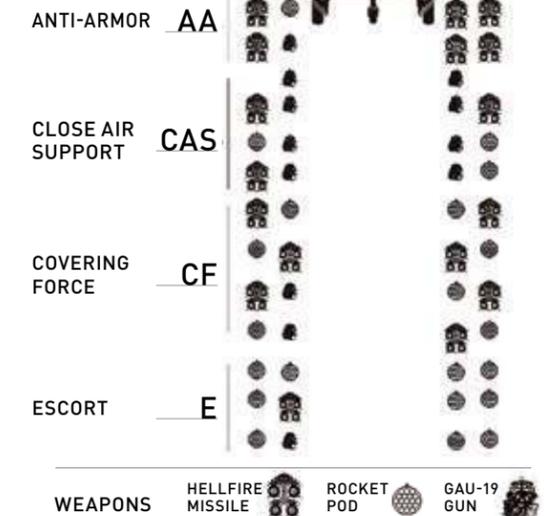


HEADS-UP DISPLAY AND HELMET TRACKER SYSTEM

- Presents primary weapons cueing for day and night operations
- Weapon fire control symbology for targeting capability
- Improved crew coordination and communication due to head movement communication between pilots



Trusted, Versatile, Lethal.



COMBAT READY

Scalable Weapons Configurations to Achieve Your Objective

Designed for combat versatility, the Armed BLACK HAWK helicopter deploys an effective combination of armament systems that are available today. Sikorsky has qualified weapons for the Armed Black Hawk ranging from small to large caliber machine guns, rockets and air to surface missiles.

GAU-19

- 50 caliber, 1300 rounds per minute
- Lightweight, highly reliable, and requires minimal maintenance
- Highly effective against area suppression and point targets, in both air-to-air and air-to-ground missions



HELLFIRE® MISSILES

- Precision guided weapons provide target flexibility and lock-on capability
- Self or third party designation
- 2/4 rail carrying capacity allows for maximum loading of 16 missiles



UNGUIDED & LASER GUIDED ROCKETS

- Supports 70mm Hydra rockets with range up to 5000 meters
- 7/19 shot pods allows for maximum carrying capacity of 76 rockets
- MIL-STD-1760 interface for carrying multiple, highly accurate and cost effective laser guided rockets

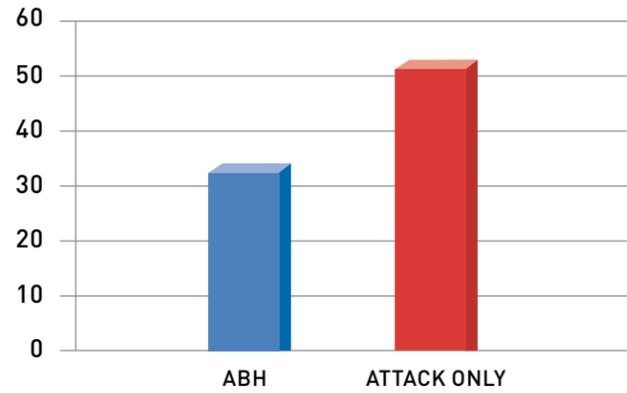


THE VALUE OF MULTI-MISSION LETHALITY

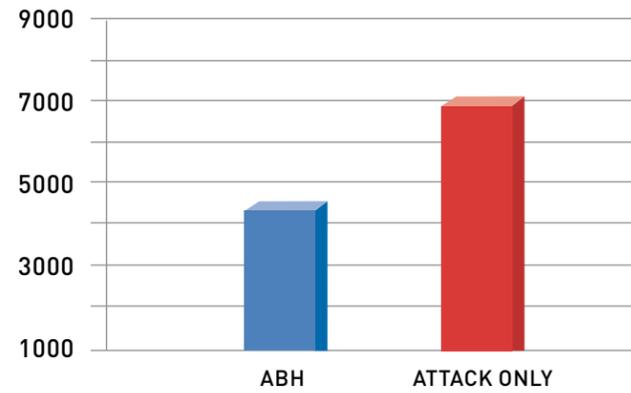
The Value of the Armed Black Hawk is in the utilization of a multi-mission helicopter that also has Attack capability. Over 40 years of continuous improvement that has enabled more performance, more capability and more operational cost savings. By selecting a multi-mission Armed Black Hawk, you chose Value. Value that will provide reliable multi-mission support and operational readiness that Attack-only aircraft cannot achieve.

But Value doesn't stop there. Customers that select the multi-mission ABH, also benefit from common logistics, common pilot and aircrew training and a robust maintenance program that is straight forward, accessible and focused on availability and readiness.

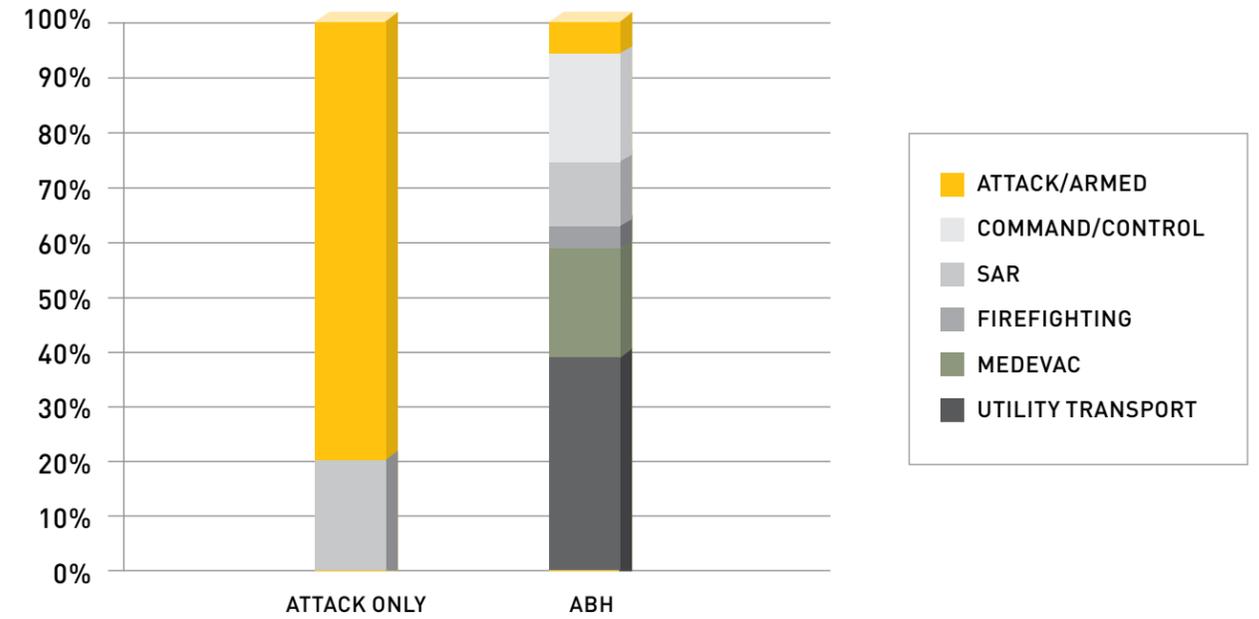
UNIT COSTS (\$ M USD)



O&M PER HOUR (\$ K USD)



TYPICAL MISSION DISTRIBUTION BY AIRCRAFT MODEL REPRESENTS 30 YEARS OF HELO-SUPPORT



40 Years of
Legendary Performance



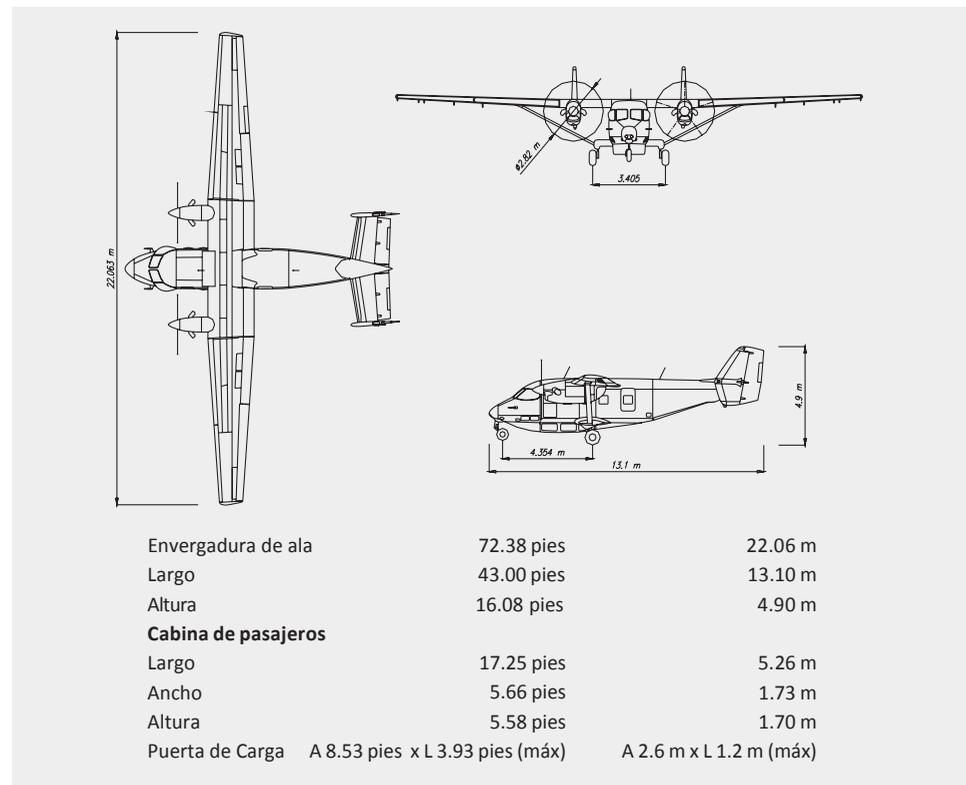
M28[®] AERONAVE DOBLE TURBOHÉLICE

M28[®] AERONAVE DOBLE TURBOHÉLICE

QUÉ PODRÍA SIGNIFICAR ACCESO PARA USTED?

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DESEMPEÑO

Nivel de mar, día estandar, peso bruto máximo de despegue, a menos que indicado de otra manera

Peso Bruto Max	16,534 lb	7,500 kg
Peso Vacío	9,601 lb	4,354 kg
Carga Útil	5,070 lb	2,300 kg
Carga Max de Combustible	3,894 lb/602 US Gal	1,766 kg/2,278 l
Potencia de Despegue	2 x 1100 shp	2 x 820 kw
Flujo Medio de Combustible (10,000 ft)	591 lb/hr	268 kg/hr
Velocidad Operacional Max	192 kts	355 km/h
Velocidad Stall (MTOW)	64 kts	118 km/h
Velocidad de Crucero de Largo Alcance	132 kts	244 km/h
Tasa Máxima de Subida (MTOW)	2,420 pies/min	12.29 m/s
Distancia de Despegue	1,800 pies	548 m
Distancia de Aterrizaje	1,640 pies	499 m
Techo de Servicio	25,000 pies	7,620 m
Alcance Máximo (10.000 pies, reserva de 45 min.)	860 nm	1,592 km
Resistencia (10.000 pies, reserva de 45 min.)	6.2 hrs	

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www.lockheedmartin.com/sikorsky
www.m28aircraft.com





SIKORSKY

M28[®]

The Ultimate in Short Takeoff
& Landing (STOL) Versatility

Indispensable to Keep You Safe

pzlmelec
A Lockheed Martin Company

SIKORSKY
A LOCKHEED MARTIN COMPANY

KEY ADVANTAGES



PAX TO CARGO RECONFIGURATION TIME
7 Minutes



STOL PERFORMANCE
Take-off Distance = 1800 ft / 548m
Landing Distance = 1640 ft / 499m
Max Rate of Climb
2,420 ft min / 12.29 m/s



PAYLOAD
5,070 lb / 2,300 kg



CABIN HEIGHT
5.63 ft / 1.72 m



CABIN VOLUME
485 ft³ / 13.73 m³



PASSENGERS
19



MAX OPERATING SPEED
192 kts / 355 km/h



MAX RANGE
860 nm - 1,592 km

DESIGNED FOR RAPID ROLE CHANGE



Paratroop



VIP



Air Ambulance



Combi



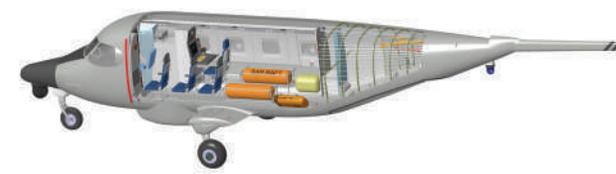
Maritime Patrol



Cargo



Passenger



Search & Rescue

Additional configurations available
www.m28aircraft.com

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MH-60R | SEAHAWK[®] HELICOPTER

SIKORSKY 
A LOCKHEED MARTIN COMPANY

MH-60R

SEAHAWK®

KEY ADVANTAGES



LOW RISK

Off-the-Shelf
100% On-time Delivery



**SIMULTANEOUS PRIMARY
MISSION OPERATIONS**
Game Changing Capability



**U.S. NAVY ROADMAP
TO 2040+**
Maintains Operational Edge



**ADVANCED SENSORS
& WEAPONS**
Designed and Built for
Maritime Dominance



SAFE & SURVIVABLE
in the Most Rigorous Missions
and Extreme Conditions



MULTI-MISSION MARITIME HELICOPTER

- Link-16
Tactical Communications
Data Link (TCDL)
Integrated Self-defense



- Multi-mode Radar
Electro-optical/Infra-red Sensors (EO/IR)
Electronic Support Measures (ESM)
Airborne Low Frequency Sonar (ALFS)
Sonobuoys

- Crew-served Weapons -
.50 cal/7.62 mm Machine Guns

- Torpedoes
Hellfire Missiles
Advanced Precision Kill
Weapon System (APKWS)

- RAST or Decklock



PROVEN PERFORMANCE

- Over **300** MH-60R Seahawk helicopters worldwide with over **600,00** flight hours accumulated
- **International Operations** for the U.S. Navy, Royal Danish Navy, Royal Australian Navy and Royal Saudi Naval Forces



UNMATCHED MULTI-MISSION CAPABILITY

- **Anti-Submarine Warfare (ASW)/ Anti-Surface (ASuW)**
- **Special Operations/ Search & Rescue (SAR)**
- **Utility/Vertical Replenishment (VERTREP)**
- **Command and Control (C2)**



SUPERIOR MARITIME CAPABILITIES

Fully Integrated Mission System builds complete situational awareness and actionable knowledge, enabling target engagement both close-in and over-the-horizon.



MOST RELIABLE, COST EFFECTIVE

- **98% Availability** (Ready Basic Aircraft)
- **Less than \$5K (USD)** cost per flight hour
- **Lowest life-cycle cost** in its class



SIKORSKY

S-70TM | **BLACK HAWK**[®]
MULTI-MISSION HELICOPTER

When Versatility & Survivability Matter



SIKORSKY S-70™ BLACK HAWK®



Tactical Utility Helicopter

KEY ADVANTAGES



USEFUL LOAD
10,350 lbs (4,695 kg)



MAX CRUISE SPEED
145 kts - 268 km/hr



RANGE
281 nm - 520 km



**HOT TEMP/
HIGH ALTITUDE**
Superior Performance



EXTERNAL LOAD
9,000 lbs - 4,082 kg



AIR TRANSPORTABLE
C-5, C-17, C-130, IL76



CABIN PASSENGERS
12 +2 Aircrew



SURVIVABLE

Every BLACK HAWK is built to Military Standards for High Mass Retention which ensures cabin volume integrity with 20G forward, 20G down, 10G up, 18G lateral forces applied. Making the BLACK HAWK survivable in the most rigorous combat conditions.



VERSATILE

One Helicopter. Many Missions. Every BLACK HAWK includes a multitude of configurations so when the mission suddenly changes, the BLACK HAWK can adapt, quickly.



DEPENDABLE

BLACK HAWKS have flown over 2.4 million hours in recent combat. 365, 24/7 you can count on the BLACK HAWK to be MISSION READY! Day or Night, Rain or Snow, Extreme Hot or Severe Cold, Anytime, Anywhere. Proven.

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Additional Configurations Available

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SIKORSKY S-70
FIREHAWK[®]
HELICÓPTERO MULTIMISIÓN

SIKORSKY
A LOCKHEED MARTIN COMPANY



S-70 FIREHAWK®

CUANDO LOS MINUTOS CUENTAN



CARACTERÍSTICAS CLAVE

 **REABASTECIMIENTO DE AGUA POR SNORKEL**
De una variedad de fuentes

 **LLENADO RÁPIDO**
Reabastece el tanque en < 60 segundos

 **DESCARGA PRECISA DE AGUA**
Patrón uniforme

 **ALCANCE SÚBITO DE ALTA VELOCIDAD**
155 kts (287 km/hr)

 **RENDIMIENTO EN ALTITUDES Y TEMPERATURAS ELEVADAS**
Desempeño superior

 **OPERACIONES NOCTURNAS**
Capaz

 **PASAJEROS/TRIPULACIÓN**
Hasta 13

 **VUELO ESTACIONARIO DE PRECISIÓN**
con GPS/INS integrados

“S-70 FIREHAWK®

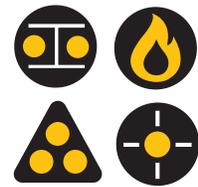
Un equipo fenomenal. Simplemente inmejorable en todo lo que hace.”

— Tom Short, Senior Pilot,
Brigada de Fuego LA County



TRANSPORTA CARGAS MIXTAS

de Tripulación/Equipo/Agua.



FLEXIBLE MULTI-MISIÓN

Reconfiguración rápida para transporte, búsqueda y rescate o MedEvac.

 **1000 gal**

MEJOR EN SU CLASE CAPACIDAD DE AGUA

1000gal (3,785 L) + 30gal (114 L) de espuma. Sobrepasa 2-3 veces más el volumen de la competencia. El mejor para respuesta de primer impacto.



EXCEPCIONAL CONTROL DE VUELO

Control superior de vuelo estacionario, respuesta inmediata y maniobrabilidad.

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SIKORSKY
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SIKORSKY S-70
FIREHAWK[®]
MULTI-MISSION HELICOPTER

SIKORSKY
A LOCKHEED MARTIN COMPANY



S-70

FIREHAWK®

WHEN MINUTES MATTER



KEY FEATURES



SNORKEL WATER FILL
From a Variety of Sources



RAPID REFILL
Refill Tank < 60 Seconds



ACCURATE WATER DROP
Uniform Pattern



HIGH DASH SPEED
155 kts (287 km/hr)



HIGH ALTITUDE/HOT TEMP
Superior Performance



NIGHT OPERATIONS
Capable



PASSENGERS/CREW
Up to 13



PRECISION HOVER CAPABILITY
w/ Embedded GPS/INS

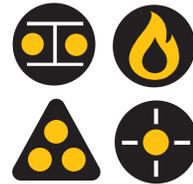
“S-70 FIREHAWK®

*What a phenomenal machine.
Just unbeatable for everything it does.*

– Tom Short, Senior Pilot, LA County FD ”



CARRY MIXED LOADS
of Crew/Equipment/Water.



FLEXIBLE MULTI-MISSION

Quickly reconfigure for Crew Transport, Search and Rescue, Medevac.



BEST IN CLASS WATER CAPACITY

1000gal (3,785 L) + 30gal (114 L) foam.
2-3x Volume of Competition.
Best for first strike response.



EXCEPTIONAL FLIGHT CONTROL

Superior hover control, responsiveness and maneuverability.

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SIKORSKY

S-92[®]

MULTI-MISSION
HELICOPTER

When Reliability and Safety Matter.



SIKORSKY S-92[®] Multi-Mission



KEY ADVANTAGES



AVAILABILITY
Approaching 95%



CABIN HEIGHT
6.0 ft - 1.83 m



PASSENGERS
22



CABIN VOLUME
700 ft³ - 19.83 m³



USEFUL LOAD
12,125 lbs - 5,500 kg



HOVER ALTITUDE
9,200 ft - 2,804 m



CRUISE SPEED
151 kts - 280 km/hr

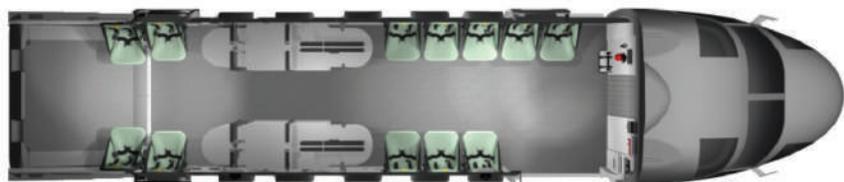


RANGE
547 nm - 1013 km

Designed for Rapid Role Change



Passenger Transport



Medical Evacuation



Search and Rescue



Supply and Emergency Relief

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Lockheed Martin Your Mission Is Ours.™

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SIKORSKY COLOMBIA SUPPORT CENTER

Ready to Support Your Black Hawk & Sikorsky Fleet





Established in 2012, Sikorsky Colombia provides product support directly from Sikorsky, the OEM of the iconic Black Hawk helicopter - the gold standard in military and paramilitary utility rotary wing aircraft.

REGIONAL, FULL SPECTRUM SUPPORT



Sikorsky Colombia was established to support the Colombian Armed Forces Black Hawk fleet – the fourth largest in the world outside of the United States. Our dedicated team provides OEM expertise in maintenance, support, and training at our modern facility, while also offering the capability of deploying a team to your location.

Some of the available services at Sikorsky Colombia:

- Maintenance Support
- Research spare parts
- Forward deployment of a technical team to your facilities to provide OEM support
- Inspections
- Repairs
- Depot work
- Pilot Training

DEPOT MAINTENANCE & PERIODIC INSPECTIONS



Operating at a 3,250m2 hangar on the Colombian Army Aviation Air Field Base in Colombia, the Sikorsky Colombia Maintenance Repair and Overhaul team consists of 28 trained, multi-lingual employees (Spanish, Portuguese & English) with decades of experience working on A, L and I Black Hawk aircraft.

When you have made an investment to operate the greatest and most capable military utility helicopter ever built, you owe it to yourself and your organization to ensure it is properly maintained and cared for by the OEM itself at competitive pricing.

FULL MOTION FLIGHT TRAINING SIMULATOR



Operating at our state of the art facility in Melgar, Colombia – built to house the level D Black Hawk simulator; Sikorsky Colombia's Team is trained, qualified and works closely with Flight Safety International and CIAC (Corporación de la Industria Aeronáutica Colombiana) to facilitate first-class OEM based Black Hawk training.

Sikorsky Colombia's simulator is the only full motion Level D Black Hawk simulator in Latin America.