SIKORSKY

S-70™ BLACK HAWK®
MULTI-MISSION HELICOPTER

When Versatility & Survivability Matter

SIKORSKY
A LOCKHEED MARTIN COMPANY
Over 3400 BLACK HAWK variants are in use today and have flown over 10 million hours. The BLACK HAWK has proven itself in the most austere of environments providing an operational readiness rate of over 85% in combat conditions.

RUGGED, VERSATILE & ALWAYS MISSION READY

BLACK HAWK® is a registered trademark of Lockheed Martin Corporation
A MILITARY HELICOPTER FROM BIRTH
Black Hawk Helicopters are Designed for Combat Conditions

VERSATILE
One Helicopter. Many Missions. Every BLACK HAWK offers unparalleled performance in a variety 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.

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.
KEY DISCRIMINATORS

S-70 BLACK HAWK

- Combat proven GE T701D Powerplants provide superior one engine out performance.
- Spill Resistant windshield and cockpit structure provide protection to pilots and aircrew.
- Gunner Window with crew served weapon pintle mount.
- Crashworthy Design Structure retains high mass components at high load factors.
- Cargo Hook is mission ready for rapid connection of external load up to 9,000 lbs (4,082 kg).
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- Crashworthy Load-limiting Troop Seats offer quick reconfiguration in under 15 minutes.
- Built-in Maintenance Platforms enable technicians and aircrews to easily access engines, flight controls and tail rotor areas.
- Durable, All-Terrain Landing Gear System energy absorbing up to 30 fps.
- Wide cockpit and cabin openings allow for quick and safe exiting of the aircraft.

KEY ADVANTAGES

- USEFUL LOAD: 10,350 lbs (4,695 kg)
- RANGE: Baseline 281 nm (520 km), Ferry 825 nm (1,528 km)
- MAX CRUISE SPEED: 145 kts (268 km/hr)
- HOT TEMP/HIGH ALTITUDE: Superior Performance
- EXTERNAL LOAD: 9,000 lbs (4,082 kg)
- AIR TRANSPORTABLE: C-5, C-17, C-130, IL76
- CABIN SEATING: 12 + 2 Aircrew
- CABIN ACCESS: 68 in (1.7 m)
- CABIN VOLUME: 396 cu ft (11.2 cubic m)
DESIGNED FOR EXTREMES
Equipped to Operate Safely Wherever Your Mission Takes You

BLACK HAWK Helicopters are designed to operate in Hot/Sandy environments.

BLACK HAWK Helicopters are designed to operate in Cold/Icing conditions.

55°C
Qualified to meet High Temperature Operations of +55°C continuous

-40°C
Qualified to meet Cold Temperature Operations of -40°C continuous

Designed to demanding Military Standards, the BLACK HAWK exceeds Civil requirements for operations in extreme temperatures.

BLACK HAWK Helicopters have proven capability in places where other aircraft cannot operate.
ONE AIRCRAFT, MANY MISSIONS
Adapt Quickly, Respond Effectively

BORDER PATROL
- Water Rescue
- Port Surveillance
- Armed Air Patrol
- Ship Capable Operations

ATTACK BLACK HAWK
- Close Air Support
- Highly Accurate Targeting
- Qualified Weapons Systems
- Various Armament/Fuel Configurations

FIREHAWK
- 1000 Gallon Water Tank
- Rapid Water Fill in 60 sec. Any Source
- Search and Rescue Ready
- Insert/Extract up to 13 Firefighters

HEAD OF STATE
- Flown and Trusted by 11 Nations
- Protection for Dignitaries
- Combat Crashworthiness/Survivability
- Durability for Austere Environments

BLACK HAWK® Helicopters Have a Long Legacy of Innovation Dedicated to the Support of Your Mission

ROADMAP TO 2060
Modernization Planning Vigorously Supported

FLEXIBLE FUEL CONFIGURATION
Expand Your Range Up to 825nm

QUICK CABIN RECONFIGURATIONS
Transport to SAR to Attack in Under 3 Hours

LOW RISK
Off-the-Shelf 100% On-time Delivery
MILITARY DESIGN ADVANTAGES

Designed for the Harsh Conditions of Combat

**Safe & Agile**

The tail wheel allows for greater safety in the event of high flare landings and greater maneuverability on the ground.

**Energy Attenuating, 3-Wheeled Landing Gear**

- Right or Left Wheel Up-slope 15°
- Nose Up-slope 15°
- Nose Down-slope 6°

Energy attenuating, non-tricycle, wheeled landing gear designed for unprepared landing zones and sloped areas:

- Absorbs energy in the event of a mishap/hard landing, thereby protecting occupants from high loads.
- Landing Gear withstands sink rate of 30 fps with airframe 38 fps making it more than 5x safer than commercial aircraft.
- Allows for taking off and landing in significantly higher sloped terrain and/or unprepared surfaces.

**Evasive & Maneuverable**

Ballistically Tolerant with a High Vertical Rate of Climb (VRoC) and Angle of Bank

- 3rd Generation Composite Wide Chord Main Rotor Blades provide improved tactical performance.

**Air Lift Transportable**

Easily Transportable & Storable - Deployment <4 Hours

- 60° Bank Capability
- Anhedral tip reduces blade vortices
- 15% increase chord width >500 lbs increased payload lift
- Blade Indicator Monitor (BIM) Reduces Maintenance
- Tail pylon fold
- Stabilator fold
- Blade fold
- Kneeling landing gear
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S-70™ BLACK HAWK CUSTOMIZATION OPTIONS

**MISSION EQUIPMENT**
- Extended Landing Gear
- External Electric Rescue Hoist
- Medical Interior
- Engine Inlet Barrier Filter
- Power Sonic Loudhailer
- High-Powered Search Light
- Electro-Optical/Infrared System
- Environmental Control System
- Wireless Communications
- Moving Map System
- Mission Planning System
- Color Weather Radar
- Cargo Hook
- 1000 gal Water Tank w/ Integrated Retractable Snorkel
- Triple Patient Litter System
- Flight Following SATCOM
- Rotor Brake
- Manual Blade Fold Kit
- Helicopter Emergency Lighting System
- AFC Mark on Top for SAR
- Commercial Radios w/ Emergency Services Communication

**WEAPONS SYSTEM**
- HELLFIRE Missiles
- 70mm Unguided Rocket
- GAU-19 12.7mm Machine Gun
- M3M .50 cal Cabin Floor Mounted Machine Guns
- M-134 7.62mm Machine Gun
- Weapons Management System
- Day/Night Heads Up Helmet Display

*Additional Options Available*
SPECIFICATIONS

PERFORMANCE (Estimated)
Standard day sea level, maximum gross weight (GW) 22,000 lb (unless otherwise noted)
Maximum Speed (Vne) 163 kts 302 km/hr
Maximum Cruise Speed (Vh) 145 kts 268 km/hr
Economy Cruise Speed (99% Vbr) 128 kts 237 km/hr
Maximum Range (no reserve) 268 nm 496 km
Maximum Rate of Climb 2,020 ft/min 10.26 m/sec
Maximum Ceiling 20,000 ft 6,097 m
Service Ceiling 15,000 ft 4,572 m
Hover Ceiling - OGE 6,200 ft 1,890 m
Hover Ceiling - IGE 10,270 ft 3,130 m
OEI Service Ceiling 6,780 ft 2,067 m

WEIGHTS
Empty Weight (excludes 11 cabin troop seats, 207 lb) 11,853 lb 5,376 kg
Maximum Take-off Gross Weight 22,000 lb 9,979 kg
Maximum Take-off Gross Weight 23,500 lb 10,659 kg (external load and with Firefighting water tank installed)

FUEL CAPACITY
Baseline Fuel Capacity 360 gal 1,362 L
Internal Aux 2 x 200 gal 1,514 L
External Fuel (Ferry Flight) 4 x 200 gal 3,028 L

CABIN DIMENSIONS
Utility Configuration 2 Pilots, 2 Cabins Crew Members and 11 Troops
Cabin Length 12.58 ft 3.84 m
Cabin Width (on floor) 6.00 ft 1.82 m
Cabin Width (at door) 7.00 ft 2.13 m
Cabin Height 4.52 ft 1.37 m
Cabin Area 88.00 sq-ft 8.18 sq-m
Cabin Volume 396.00 cu ft 11.21 cu-m
17 Tie-down Rings
Cargo floor rated at 300 psf (1,464 kg/m2)
Two storage compartments (20.34 cu-ft) over fuel cells

POWER PLANTS (Sea Level Standard)
Quantity/Type Two (2) - T700-GE-701D
2.5 Minute OEI Contingency 1,972 shp 1,471 kW
10 Minute Takeoff Power 3,910 shp 2,916 kW
30 Minute Intermediate Power 3,738 shp 2,788 kW
MAX Continuous Power 3,356 shp 2,502 kW

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GLOBAL SUSTAINMENT & PRODUCT SUPPORT

Availability Enabled by an Integrated Support Network

- Parts Positioned Around the Globe
- Original Equipment Manufacturer Parts and Repairs
- Advanced Fleet Management and Logistics Tools
- Training
- Health & Usage (HUMS) Data Monitoring
- Engineering Services
- 24hr Customer Care Center
- On Site Support
I always believed that the helicopter would be an outstanding vehicle for the greatest variety of lifesaving missions.

Igor I. Sikorsky
Legendary Aviation Pioneer
Founder of Sikorsky