



SH-2G Super **SEASPRITE**

MODERN MARITIME SOLUTION

 **AIR VEHICLES**
BY KAMAN

Flexible

The Kaman SH-2G Super Seasprite is the ideal multi-mission maritime helicopter. From anti-submarine warfare, to anti-surface warfare, over-the-horizon targeting, utility and search and rescue – you name the missions, the SH-2G meets the challenge!



Largest small-ship helicopter

The SH-2G is a fully integrated multi-mission maritime weapon system with anti-submarine, anti-surface, over-the-horizon targeting, surveillance, troop transport, search and rescue and utility capabilities. The aircraft is the largest, most powerful small ship helicopter available.

With more than 1.3 million flight hours in an at-sea environment, the SH-2G's robust design has proven itself fully capable and compatible with operations on today's OPVs, corvettes, frigates and larger naval vessels. The aircraft is compatible with all leading deck securing and traversing systems. A proven performer, the SH-2G Seasprite has more free-deck experience in higher sea states than any other maritime helicopter. The SH-2G: the most experienced day/night/all-weather multi-mission maritime helicopter.

*Flexible, reliable, and proven.
The SH-2G is a complete
package for small ship and
other maritime operations.*

The SH-2G is the most experienced multi-mission maritime helicopter.

Anti-submarine
warfare

Anti-surface
warfare

Search and
rescue

Over-the-horizon
targeting

Law enforcement
operations

Visit, board,
search and seizure

Vertical
replenishment

Naval gunfire
spotting

ANY MISSION. ANY SEA. ANY DECK. EVER READY.

Fully integrated

Navigation, communications, surface warfare and anti-submarine warfare systems provide fast, accurate and dependable location and detection data to the on-board crew. The same data is available via “burst” transmission to adjacent ships or command centers.

A dual redundant MIL-STD-1553B data bus links the integrated crew with navigation, flight control sensors, mission sensors, tactical processing, data links, stores management and controls and displays. This combination of data bus and instrument package enables the aircraft and its systems to be efficiently operated by a crew of two.

Wide array of weapons systems

The SH-2G's specialty is over-the-horizon operations from small ships – Super Seasprite extends the reach of the ship's sensors and weapons by a factor of 10! Delivering beyond-the-horizon reach and keeping the ship out of harm's way – the SH-2G is the ultimate maritime force multiplier.

On-board radar, FLIR, ESM and acoustic data processor enable the SH-2G to independently exhibit a wide array of surface and submarine contact data. Fully integrated weapons allow delivery of Penguin or Maverick air-to-surface missiles, advanced lightweight ASW torpedoes, and side suppression arms such as the 7.62 or 12.7 mm general-purpose machine gun. The SH-2G is designed and certified to deliver the widest array of weapons.

The SH-2G can carry two MK-46 torpedoes; two AGM-119 Penguin or two AGM-65 Maverick air-to-surface missiles; two MK-11 depth charges; flares for self-protection; 7.62 mm or 12.7 mm door-mounted machine guns.



SH-2G's full-time rescue hoist means the helicopter is always ready for urgent, in-flight re-tasking for critical SAR operations.



This Royal New Zealand SH-2G can carry an array of weaponry, including Maverick missiles, shown above.

Utility operations

The full versatility of the SH-2G is demonstrated by its ability to serve many roles. It can carry up to eight fully equipped troops or serve as a platform to observe and support naval gunfire operations. For search and rescue operations, the helicopter is equipped with a 600 lb (272 kg) capacity rescue hoist. For vertical replenishment, the SH-2G has a 4,000 lb (1814 kg) capacity external cargo hook.

Because of the ease with which pilots fly the SH-2G, it is an ideal helicopter for visit, board, and search and seizure operations.



Full-time, 600 lb capacity, rescue hoist.

Capable

Proven reliability in more than 1.5 million maritime flight hours makes the SH-2G Super Seasprite the most essential shipboard weapon system.

Mission endurance

The SH-2G was designed to rigid U.S. Navy standards and is optimized for the small ship environment. The helicopter is capable of operations up to sea-state six. The aircraft's five-hour endurance provides commanders with maximum flexibility for a wide

variety of missions. In addition to anti-submarine and anti-surface warfare, the helicopter's endurance permits extended search and rescue and over-the-horizon support for surface combatants.

SPECIFICATIONS

Maximum all up weight

Standard blade system	6123 kg	13,500 lb
Composite blade system	6441 kg	14,200 lb
Composite main rotor diameter	13.5 m	44.29 ft

Maximum speed

Cruise	120 kt
VNE	150 kt

Best range

800+ km	500+ nm
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Best endurance

5+ hours

Hover performance

OGE	4450 m	14,600 ft
IGE	5181 m	17,000 ft

Useful load

1825 kg	4,023 lb
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Crew

2 (1 pilot, 1 TACCO)
1 sensor operator optional

Passengers

8+ fully armed troops

Rescue hoist

280 kg	600 lb
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Cargo hook

18,000 kg	4,000 lb
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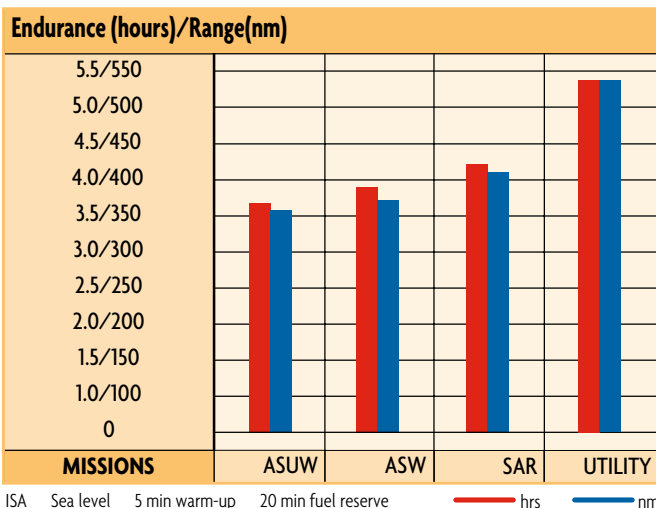
Installed power

2 x GE T701-401
1723 shp each

Fuselage service before inspection

10,000 hours available upon inspection
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SH-2G PERFORMANCE





Designed from the beginning for maritime operations

The SH-2G Super Seasprite is optimized for small ship operations. The folding blade system enables storage and maintenance aboard. A fully marinized fuselage and drive train is designed specifically for maritime operations. The fuselage has a 10,000-hour minimum life before major inspection.

With twin-engine reliability, the aircraft has the highest power to weight ratio of any helicopter in its class. The Super Seasprite is capable of completing its designed mission on a single engine and returning safely to the ship.

The fully articulated main rotor system, titanium hub and exclusive, highly reliable servo-flap control system ensures pilot-friendly, low vibration flight operations. Pilots, crew and aircraft systems enjoy low vibration levels, ensuring longer life for components and reduced fatigue for crew members, enabling maximum focus on the mission. The Super Seasprite's extremely low vibration levels are the standard others can only hope to achieve. The aircraft maintains the best vibration levels thanks to its unique in-flight blade tracking system.



The SH-2G has the highest power-to-weight ratio of any helicopter in its class, delivering the best "high-hot" performance in the industry.

The SH-2G Super Seasprite features a comprehensive aircraft self-protection suite, above, and is at home at sea.



Supported

Kaman specializes in integrated logistical support for its products, with customer tailored support programs. These programs provide a full range of services and product support functions, including high-fidelity full-mission simulation, all designed to maximize the value of the SH-2G helicopter to the customer.

Full-service commercial support

Tailored to operator needs, Kaman helicopter support systems are designed specifically to address the exacting requirements of SH-2G operators. Kaman originated the “single helicopter deployed at sea” concept and is uniquely positioned to deliver the right support package to maximize operational capabilities. From “fully organic” to “fully commercial,” the Kaman Support Team can deliver the broadest system of support capabilities to enhance operational readiness.

The SH-2G: backed by Kaman – a leader in multi-mission maritime helicopter technology.



*Greater than 80% deployed
full-mission capable rate — documented by
Kaman-supported customers.*



Kaman provides full logistical support and can be tailored to specific fleet requirements.



Kaman Aerospace delivers the best through-life support solution for the most sophisticated and capable multi-mission maritime helicopter.

Aircrew and maintenance

A key service for SH-2G operators is aircrew and maintainer training. The full mission flight simulator provides full-color day and night visuals, mission planning, a mission debrief facility and part-task trainers.

Our support programs can be replicated elsewhere to satisfy customer requirements, representing the ultimate in commercial customer service. Such programs can be tailored to specific fleet logistics requirements, assuring lifetime fleet support.

Provisioning and repair

Specialists at Kaman monitor and analyze parts usage trends, ensuring replacement availability for multiple bases of operation. Kaman also is equipped for major repair and to overhaul aircraft components worldwide.

Other logistic services include maintenance and distribution of technical and operating publications and management and distribution of ground support and test equipment.

Full Motion Flight Simulator



The SH-2G Super Seasprite: a modern maritime solution for today's multi-mission naval requirements.





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