







CH-53K® KING STALLION™

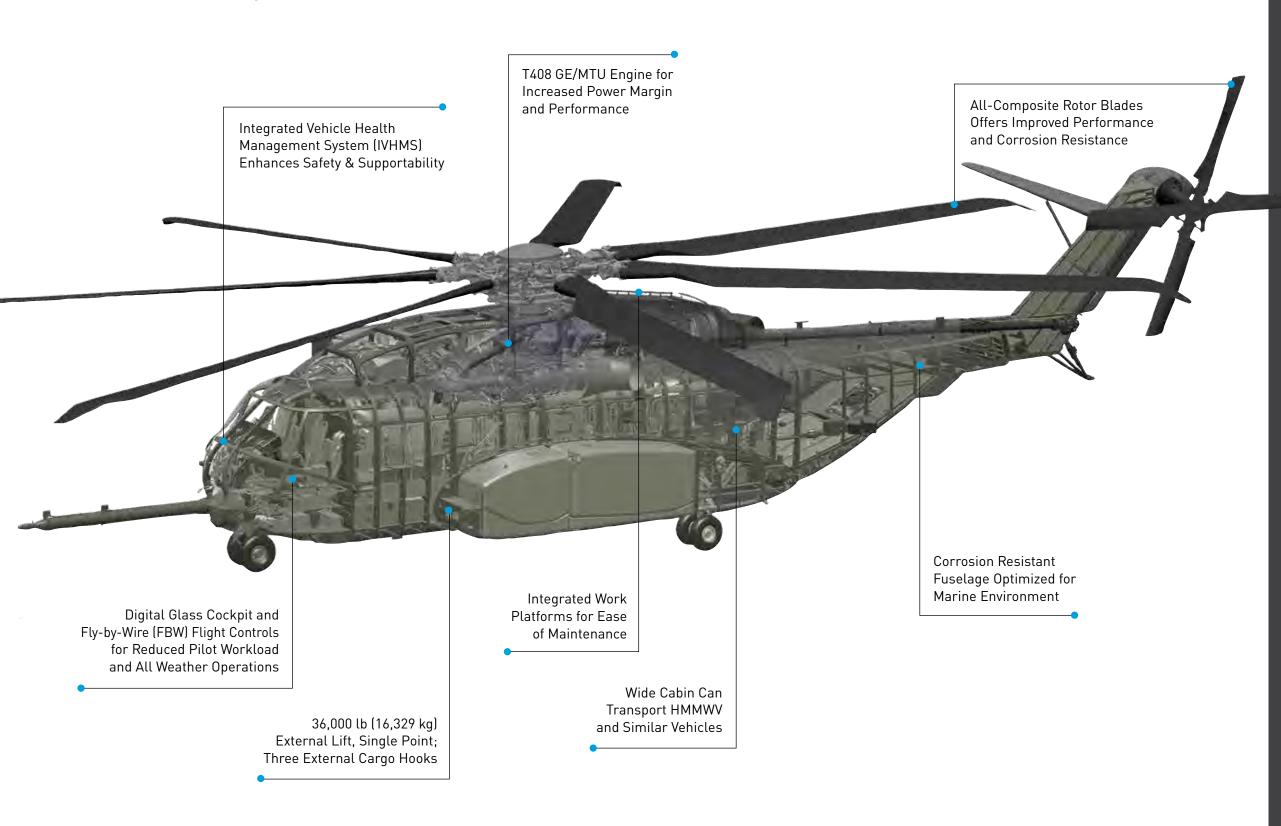
With its all new integrated modern design, the CH-53K® is an intelligent aircraft developed to 21st century standards for improved safety, reliability and maintainability, offering:

- Enhanced Performance and Mission Capability
- Improved Survivability Features
- Predictive Maintenance Capability
- Commercial Level Availability Rates
- Lower Life Cycle Costs
- Significant Growth Potential



UNMATCHED BENEFITS

For Missions Today and Tomorrow



KEY ADVANTAGES



IMPROVED
PAYLOAD EFFICIENCY

12% Greater Cabin Volume Than Legacy Aircraft





FUEL EFFICIENT ENGINES

18% Improvement Over Legacy



MARITIME COMPATIBLE

Built for Shiphoard Operations



HOT TEMP/ HIGH ALTITUDE

iperior Performance





CONDITION BASED MAINTENANCE

Lower Operating Costs





ONE AIRCRAFT, MANY MISSIONS

Transport More Material Than Ever Before

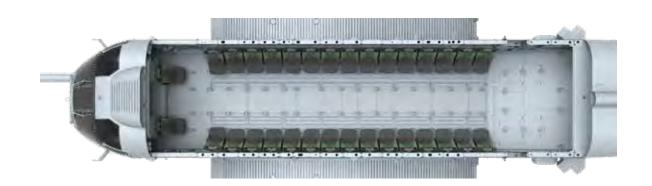
Flexible configurations offer rapid changeover for maximum mission effectiveness.

Interior Cabin Mission Configurations



Troop Transport

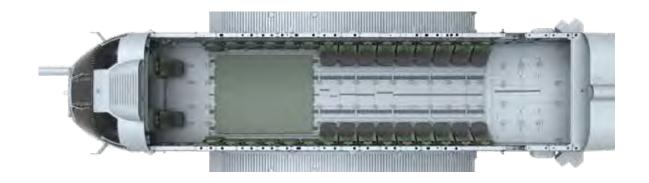
- 32 Crashworthy Seats
- Rapid Seat Installation/Removal
- Entry through Ramp or Side Door
- Integrated Mobile Aircrew Restraint System (IMARS)





Cargo Transport

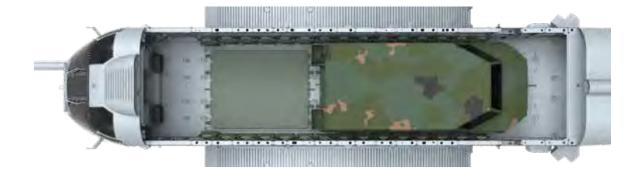
- 463L Cargo Pallet Fast Locking System
- Invertible Cargo Rollers Stow in Place
- Rear Ramp for Rapid Loading/Unloading
- 103 inch (262 cm) wide Cabin Ramp





Mixed Transport (Troop/Cargo)

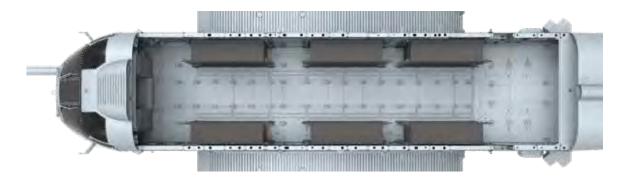
- Folding Seats for Rapid Stowage
- All NATO standard pallets (Full 463 L, Half 463 L, Standard Wood, etc.) without any reconfiguration





Medical Evacuation

- Quad Stacked, Standard Litter
- 24 Patients
- Easy Litter Installation/ Removal for Patient Loading



LAUNCH INTO ANY ENVIRONMENT

All-Weather, Day/Night, Long-Range, Heavy Lift Operations



- C-17/C-5 Air Transportable
- Rapid Disassembly/Reassembly
- Simplified Loading/Unloading Process



- Triple Redundant Fly-By-Wire Flight Control System
- Interoperable/Net-Ready Communication Systems
- Improved Reliability/Maintainability



- Enhanced Force Protection
- Weapons Equipment Provisions/Defensive Armament Systems
- Integrated Mobile Aircrew Restraint System



- Enhanced Survivability
- Armored Cockpit and Cabin
- Defensive Counter Measure System



- Day/Night Air-to-Air Refueling
- Self-Deploying Capability
- Rapid Ground Refueling Capable



- Fully Shipboard Compatible
- Auto Blade Fold < 2 Minutes
- Same Footprint as Legacy Aircraft



"The aircraft has performed for 21 minutes in the worst brownout conditions with zero degradation of the engines." - Lt. Gen. Wise

DESIGNED WITH THE FUTURE IN MIND

The CH-53K® is poised for significant capability growth for years to come. Its avionics and flight control systems are designed to accommodate future software upgrades, and its internal payload capability may be increased substantially in the future with relatively simple modifications. The CH-53K® integrates the latest rotor-wing technologies into a heavy-lift helicopter for today, and tomorrow.





Operating Dimensions

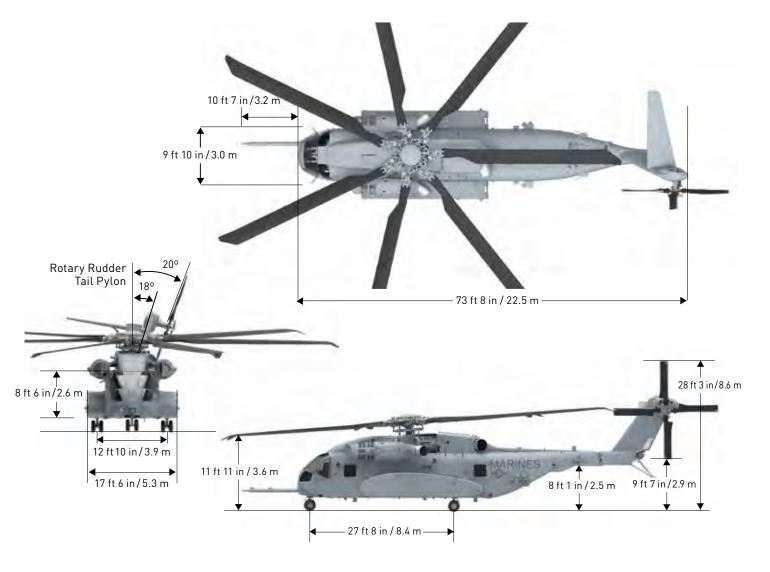
Overall Length = 99 ft / 30.2 m Overall Width = 79 ft / 24.1 m Overall Height = 28 ft 3 in / 8.6 m

Cabin Dimensions

Cabin Length = 30 ft / 9.1 m Cabin Width = 8 ft 7 in / 2.6 m Cabin Height = 6 ft 5 in / 2.0 m

Rotor Diameters

Main Rotor = 79 ft / 24.1 m Tail Rotor = 20 ft / 6.1 m



CH-53K° SPECIFICATIONS

Empty Weight	43,878 lb	19,902 kg
Maximum Design Gross Weight (MDGW)	88,000 lb	39,916 kg
Maximum Gross Weight with Internal Load	74,000 lb	33,565 kg
Hover Out of Ground Effect Gross Weight (Sea Level Standard)	88,000 lb	39,916 kg
External Load Hook Rating - Center (Single Point)	36,000 lb	16,329 kg
External Load Hook Rating - Fwd/Aft	25,200 lb	11,430 kg
Internal Cargo System: Floor Loading Standard USMC 40 in x 48 in Wooden Pallets Full 463L Pallets Half 463L Pallets Tactical Bulk Fuel Delivery System	300 lb/ft ² 2,500 (x qty 6) lb 10,000 (x qty 2) lb 5,000 (x qty 5) lb 3 x 800 gal tanks	1,465 kg/m ² 1,134 (x qty 6) kg 4,536 (x qty 2) kg 2,268 (x qty 5) kg 3 x 3,028 L tanks
Aircraft Length (blades and tail unfolded)	99 ft	30.2 m
Aircraft Width	17 ft 6 in	5.3 m
Aircraft Height (blades and tail unfolded)	28 ft 3 in	8.6 m
Cabin Length	30 ft	9.1 m
Cabin Width	8 ft 7 in	2.6 m
Cabin Height	6 ft 5 in	2.0 m
# Seats	34 Crashworthy Seats (2 Pilots, 2 Crew, 30 Troops)	
# Litters	24	
Internal Fuel Capacity	2,225 gal (@ 6.8lb/gal = 15,130 lb) 2 cells per sponson	8,423 L (@0.82 kg/L = 6,863 kg) 2 cells per sponson
Internal Aux Fuel Capacity	2,400 gal (16,320 lb) 3 x 800 gal tanks	9,085 L (7,403 kg) 3 x 3,028 L tanks

CH-53K® SUSTAINMENT SOLUTIONS

Smart Maintenance Leads to Greater Availability & Lower Operating Costs

The CH-53K® Program leverages digital thread technologies to achieve sustainment savings as well as increased performance and readiness.

Integrated Vehicle Health Management System (IVHMS)



- Automated system monitors and manages performance of avionics systems, critical dynamic components and engine performance
- Designed to integrate with the customer's enterprise data systems to allow for seamless, centralized status reporting & material management
- Enables shift to condition-based maintenance

Maintenance Made Easier



The CH-53K was designed from the beginning with the future maintainer in mind. Using state of the art digital tools, maintenance-friendly designs were incorporated into the final aircraft configuration offering:

- Integrated work platforms, with improved access to sponsons & engines
- Fewer total parts
- Repair capability with common tools enabling maintenance tasks to be performed faster and safer

Smart Maintenance Allows for Smarter Logistics



- Prepositioned parts based on predictive maintenance
- Maintenance computer makes work order for advanced lead times
- Automated troubleshooting leads to reduced maintenance time

Customer Sales & Support 24/7 1-800-Winged-S (1-800-946-4337) International 1-203-386-3029







Bottom two photos by Cpl. Ethan Pumphret - 2nd Marine Aircraft Wing

ADVANCED TRAINING SOLUTIONS

Operational Success Starts with Training

Flying and maintaining the versatile CH-53K® helicopter requires state-of-the-art training. Lockheed Martin's customizable advanced training solutions replicate the functionality, flight characteristics, mission profiles and unmatched capabilities of the CH-53K®. This ensures air-crew and maintainers receive the proper training to fulfill critical missions for decades to come.



Pilot Training

- Initial, Transition, Recurring
- Mid-Fidelity Mission Rehearsal/ Procedural Devices
- High-Fidelity Flight Simulators
- Containerized Flight Training Devices

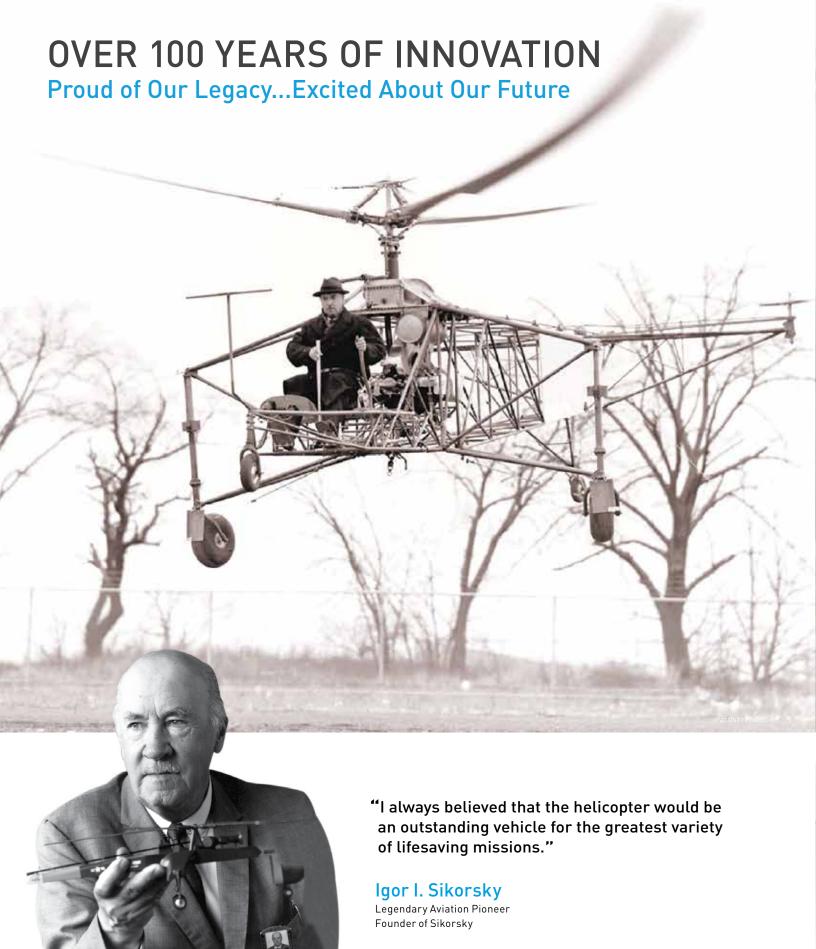


Maintenance Training

- Initial, Transition, Recurring
- Airframe & Powerplant
- Avionics, Flight Controls & Electrical
- Electronic Classroom
- Cargo Load Trainers
- Composite Maintenance Trainers













ONLY THE K CAN!®



6900 Main Street, Stratford, Connecticut 06615 USA +1 (800) WINGED-S (946-4337) International +1 (203) 386-3029 www.lockheedmartin.com/sikorsky

https://www.lockheedmartin.com/ch-53k

NAVAIR Public Release SPR-2024-0461 - Revised JULY 2024. Distribution Statement A - Approved for public release; distribution is unlimited This Document Does Not Contain Export Controlled Data. © 2024 Sikorsky, A Lockheed Martin Company. All Rights Reserved. 9218

