

CH-53K® THE ONLY HEAVY LIFT SOLUTION



THE KING OF HEAVY LIFT

Unparalleled Performance

else that flies. It is at home in searing desert heat, arctic cold and everything in between.







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:

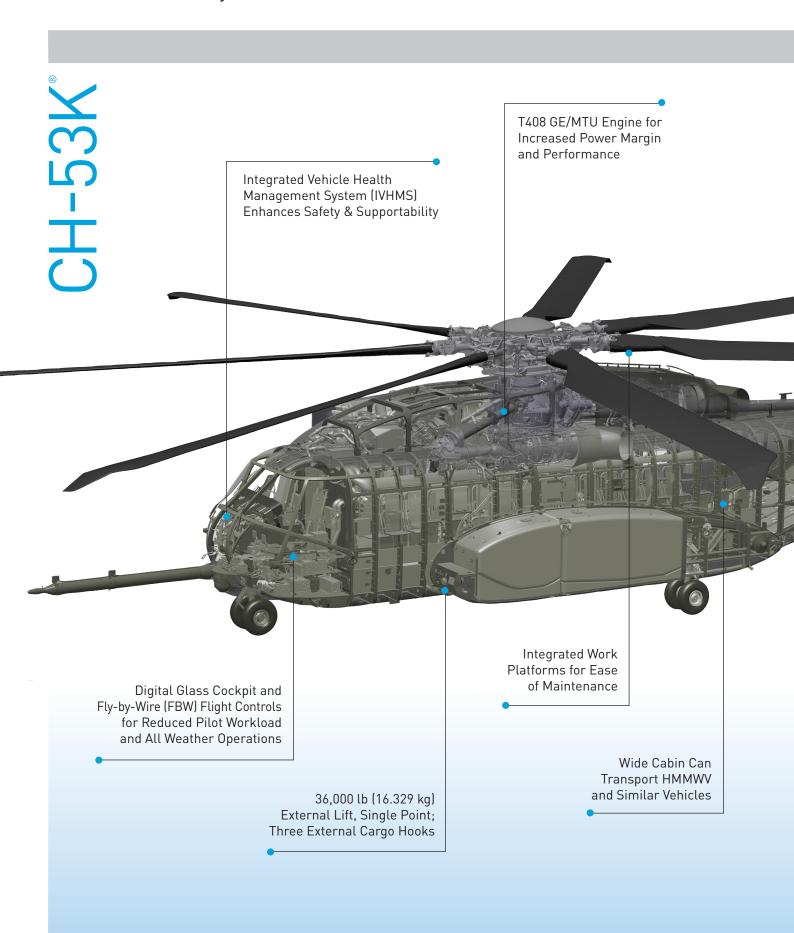
- Enhanced Performance and Mission Capability
- Improved Survivability Features
- Predictive Maintenance Capability
- Commercial Level Availability Rates
- Lower Life Cycle Costs
- Significant Growth Potential





UNMATCHED BENEFITS

For Missions Today and Tomorrow



All-Composite Rotor Blades Offers Improved Performance and Corrosion Resistance Corrosion Resistant Fuselage Optimized for Marine Environment

KEY ADVANTAGES



IMPROVED PAYLOAD EFFICIENCY

12% Greater Cabin Volume





FUEL EFFICIENT ENGINES

18% Improvement Over Legacy



MARITIME COMPATIBLE

Built for Shipboard Operations



HOT TEMP/HIGH ALTITUDE

Superior Performance



MEAN TIME TO REPAIR

35% Improvement Over Legacy



CONDITION BASED MAINTENANCE

Lower Operating Costs



DEGRADED VISUAL ENVIRONMENT

Inherent DVE Capability



AUTONOMY

Provisioned for Future Upgrade

ONE AIRCRAFT, MANY MISSIONS

Transport More Material Than Ever Before

Flexible configurations offer rapid changeover for maximum mission effectiveness.

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)

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

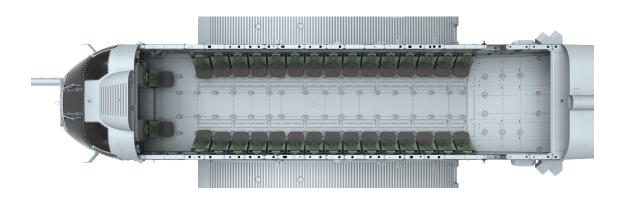


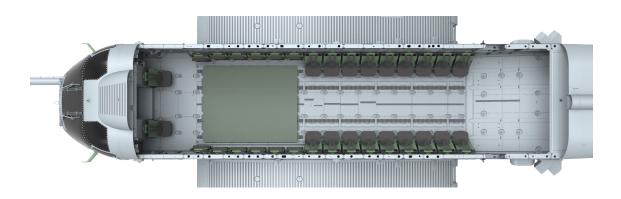
MEDICAL EVACUATION

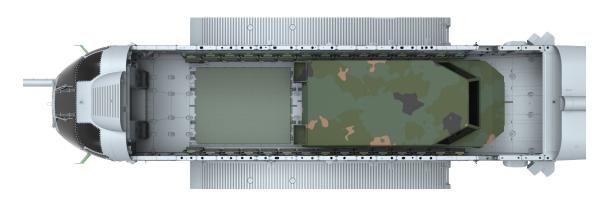
- Quad Stacked, Standard Litter
- 24 Patients
- Easy Litter Installation/Removal for Patient Loading

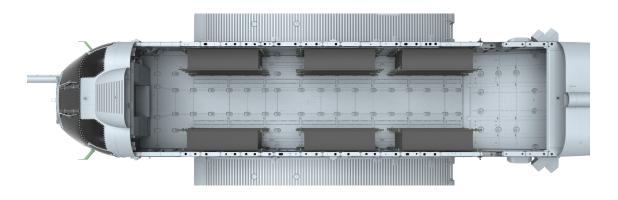


Interior Cabin Mission Configurations









LAUNCH INTO ANY ENVIRONMENT

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



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



- 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



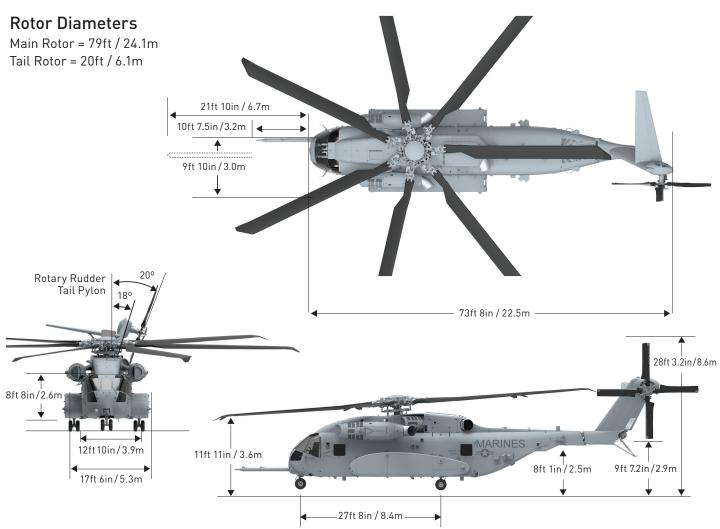
- Fully Shipboard Compatible
- Auto Blade Fold < 2 Minutes
- Same Footprint as Legacy Aircraft

DESIGNED WITH THE FUTURE IN MIND









CH-53K° SPECIFICATIONS

Empty Weight	43,878 lb	19.000 kg
Maximum Design Gross Weight (MDGW)	88,000 lb	39.900 kg
Maximum Gross Weight with Internal Load	74,000 lb	33.600 kg
Velocity @ Maximum Continuous Power (Sea Level Standard) @ 74,000 lb	170 kts	315 km/hr
Hover Out of Ground Effect Gross Weight (Sea Level Standard)	88,000 lb	39.900 kg
Service Ceiling @ 74,000 lb (International Standard Atmosphere)	16,200 ft	4.94 m
Service Ceiling @ 74,000 lb (International Standard Atmosphere + 24°C)	13,250 ft	4.04 m
External Lift Mission Payload, @ 110 nm (204 km) Radius of Action	27,000 lb	12.200 kg
External Load Hook Rating - Center (Single Point)	36,000 lb	16.300 kg
External Load Hook Rating - Fwd/Aft	25,200 lb	11.400 kg
Internal Cargo System: Floor Loading Standard USMC 40"x 48" 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 gallon tanks	1.470 kg/m ² 1.100 (x qty 6) kg 4.500 (x qty 2) kg 2.300 (x qty 5) kg 3 x 3030 liter tanks
Aircraft Length (blades and tail unfolded)	99 ft	30.2 m
Aircraft Width	17.5 ft	5.3 m
Aircraft Height (blades and tail unfolded)	28.3 ft	8.6 m
Cabin Length	30 ft	9.1 m
Cabin Width	8.6 ft	2.6 m
Cabin Height	6.4 ft	2.0 m
# Seats	34 Crashworthy Seats (2 Pilots, 2 Crew Chiefs, 30 Troops)	
# Litters	24	
Internal Fuel Capacity	2,225 gallons (@ 6.8lb/gallon = 15,130 lb) 2 cells per sponson	8.423 liters (@0.82 kg/liter = 6.863 kg)
Internal Aux Fuel Capacity	2,400 gallons (16,320 lb) 3 x 800 gallon tanks	9.085 liters (7.450 kg) 3 x 3.028 liter tanks

CH-53K° SUSTAINMENT SOLUTIONS

Smart Maintenance Leads to Greater Availability and 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 and 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
- Logistic Support Representatives

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

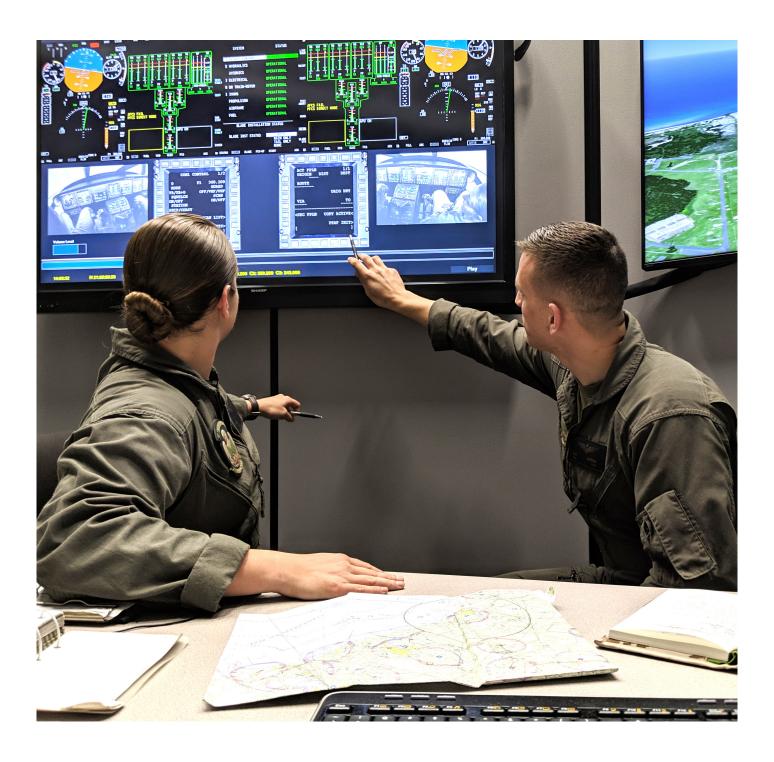






TRAINING FIT FOR A KING

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 aircrew and maintainers receive the proper training to fulfill critical missions for decades to come.



ADVANCED TRAINING SOLUTIONS

Operational Success Starts with Training

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





OVER 100 YEARS OF INNOVATION

Proud of Our Legacy...Excited About Our Future



"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











Lockheed Martin Your Mission is Ours®.



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https://lockheedmartin.com/en-us/products/sikorsky-ch-53k-helicopter.html

