



# H-53 Heavy Lift Helicopters



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H-53 Heavy Lift Helicopters, PMA-261

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# CH-53K<sup>®</sup> King Stallion<sup>™</sup>

## Mission

To conduct expeditionary heavy lift assault transport of armored vehicles, personnel and equipment to support distributed operations deep inland from a sea-based center of operations.

KPP Mission:  
27,000 lbs. (ext)  
Ship (@ 103°)  
110 NM  
LZ (@ 3000', 91.5°)  
Return



# CH-53K King Stallion

# Range

## External Lift JLTV w/Crew

USMC OPFOR  JLTV w/B-Kit, 22,600 lbs., (10,250 kg), 50% of vertical BLT

CH-53K



180 NM (333 km) with JLTV

CH-53E



~71 NM (131 km) with JLTV



103°F (39°C)

SEA LEVEL

50 NM  
(46 km)

100 NM  
(93 km)

150 NM  
(185 km)

200 NM  
(370 km)



# CH-53K King Stallion

# Performance

- Improved Reliability and Maintainability
  - Integrated Vehicle Health Monitoring System (IVHMS)
- Interoperable/Net-Ready
- Shipboard Compatible
- Air-to-Air Refueling
- Forward Arming Refueling Point Capable





# CH-53K King Stallion

# Safety/Survivability



- Fly-by-wire Flight Control System
- Enhanced Survivability and Force Protection
- Day/Night/All-Weather Operation
- Self-Deploying Capability



# CH-53K King Stallion

# Supportability

- Training
  - Containerized Flight Training Device, Helicopter Emulation Maintenance Trainer, Composite Maintenance Trainer
  - Classroom & Courseware
- Feedback and Continuous Improvement
  - Publications, maintenance procedures, support equipment
- Repair Capability
  - Pursuing gearbox, composite facilities
  - Future transition from Repair of Repairables (ROR) to Performance-Based Logistics (PBL) readiness support strategy
- Automated Logistic Environment (ALE)





# CH-53K King Stallion

# Accomplishments

- Shipboard Compatibility
- Aerial Refueling
- Degraded Visual Environment
- Hot/Cold Weather Test
- 6 Aircraft delivered
- 48 Aircraft on Contract



# CH-53K King Stallion

# Accomplishments



- Initial Operational Test & Evaluation complete
- Initial Operational Capability-Declared
- First fleet squadron established, HMMH-461



# CH-53K King Stallion

# International



- Dec 2021: Israel signed for 12 aircraft with option for 6
- Feb 2022: Lot 6 option awarded for first four Israeli (4) aircraft
- Jul 2022: Engineer and Scientist Exchange Program (ESEP) arrival of Israel Air Force officer
- Jan 2025: Israeli delivery start @ (4) per year



# CH-53K King Stallion

# Schedule

- Full-Rate Production Decision- 2023
- First Scheduled Deployment- 2024
- Full Operational Capability- 2029





# CH-53

# Q&A

