



Responsive Uncrewed Capability (RUC-60)

OPTIONALLY PILOTED BLACK HAWK UH-60 FOR CONTESTED LOGISTICS



PRIMARY BENEFITS AND FEATURES

Transport 90K lbs Per Day in Contested Airspace

Onboard autonomy enables 24/7 high-tempo, uncrewed operations. Minimize risk to personnel and maximize logistics capacity.

Field Fast & Affordably

Converting existing airframes avoids long waits and high costs for new aircraft by rapidly upgrading today's aircraft for tomorrow's logistics missions.

Increase Assurance With Safety Critical Autonomy

Uses Captain, a deterministic autonomy architecture for mission assurance in challenging environments.

Complete Contested Logistics Solution

- ▶ Mission Autonomy: Mission, Vehicle, and Contingency Management
- ▶ Taxi, Departure, and Approach Obstacle Avoidance
- ▶ Terrain Avoidance (Low-Level Flight)
- ▶ Landing Zone Evaluation for Unprepared Environments
- ▶ Optionally Piloted (Uncrewed and Crewed)
- ▶ DAA (Detect and Avoid) Other Aircraft
- ▶ Assured-Position Navigation Timing (A-PNT)
- ▶ DVE (Degraded Visual Environment) Flight Operations



Assured Safety Without Continuous Data Link

Safe flight and hazard avoidance that doesn't require onboard crew, remote pilot, or continuous data link.



Modular, Open-Architecture Design & Development

Future-proof the aircraft to avoid vendor lock-in and utilize increasingly high-performance sensors, algorithms, and computers.



The Trusted Autonomy for VTOL Leaders

Near Earth has over a decade of successful full scale helicopter autonomy experience across the DoD, and 10K+ flights across 140+ airframes including Airbus, Bell, Boeing, Kaman, Leonardo, and Sikorsky.

Product Development Timeline

2021	2026	2027	2029	2030
Began Autonomous Blackhawk Work with US Army	Demonstrate Autonomous Missions With Safety Pilot Onboard	Demonstrate Autonomous Missions With No Pilot Onboard	Initial Production	Full Rate Production



Obstacle Avoidance



Traffic Detection



Command and Control



Flight Control



Actuators



Takeoff/Land



Autonomy Avionics



Currently accepting orders:
RUC@NearEarth.aero | www.nearearth.aero