

C-130H upgrade solutions

A SMART WAY TO MODERNIZE YOUR LEGACY C-130 FLEET

Cost-effectively improve mission
readiness and extend aircraft life



Collins Aerospace

HARNESS THE POWER OF MODERN AIRCRAFT PERFORMANCE

It's been the workhorse of the military aviation world for decades. And with the right upgrades, your C-130H aircraft can continue to perform for decades longer. At Collins Aerospace, we've put together a solution that can equip your C-130H fleet to deliver superior performance at a fraction of the price of a new aircraft.

That performance means readiness for future missions as well as future airspace requirements. Give your C-130H the capabilities to continue being an aviation stalwart well into the 2040s. Choose the cost-effective upgrade solution that's backed by the trusted expertise of Collins Aerospace.

IT PAYS TO UPGRADE

- Shorter takeoff and landing distances
- Faster time to climb
- Lower basic weight
- More precise airdrops
- Increased reliability
- Higher mission completion
- Extends aircraft service life



MODERNIZATION IN KEY AREAS

AVIONICS

ADVANCED CARGO LOADING AND DELIVERY SYSTEM (ACLADS)

ACLADS reduces ground loading times by 50%. It simplifies heavy equipment airdrop procedures, improves airdrop accuracy and enables real-time load planning.

COMMAND & CONTROL

Connects your aircraft with command-and-control secure cockpit voice and data communications. High-throughput satellite connectivity provides real-time mission updates. Increases knowledge management, situational awareness and safety.

FLIGHT2™ INTEGRATED AVIONICS SYSTEM

Upgrading the C-130H's analog instruments to Flight2™ brings a variety of benefits to the aircraft. Now selected by the USAF for C-130 AMP Inc 2, the system's digital avionics increase reliability 15X over analog while reducing the aircraft's basic weight by 453.6 kg. (1,000 lbs.). Flight2 also meets upcoming civil aviation mandates.

HEAD-UP DISPLAY (HUD) WITH ENHANCED VISION SYSTEM (EVS)

Available in 2020, our digital HUD can integrate our Enhanced Vision System to enable your C-130H for FAA landing credit to touchdown. Delivers enhanced terrain awareness, ability to see LED and covert lights, and forward vision through smoke for night firefighting.

GROUND SYSTEMS & SUPPORT

SIMULATION AND TRAINING SOLUTIONS

A variety of cost-effective training options promote training effectiveness and improve overall safety. We can tailor training solutions to fit your C-130 requirements. Offerings include a "train like you fly" solution that uses the same Flight2 avionics software that pilots will use on the aircraft.

Note: Customized C-130H upgrade packages are also available. Contact us to learn more.

INTERIORS

LED LIGHTING

Provides brighter illumination with lower power consumption and longer lifetimes even in harsh environments. Includes interior cargo/dome lighting and exterior taxi, landing and beacon lights.

LIFE RAFT

Our Winslow life rafts feature FAA TSO C70a-approved Type One design, custom pack sizes to fit storage locations, capacities from 25 to 56 people, custom survival equipment packs and vacuum packing for a three-year inspection interval.

PILOT AND CREW SEATING

A comprehensive family of comfortable, adjustable seats for pilot, co-pilot, flight engineers, observers and mission operators. Fixed Aircrew Seat Standardization (FASS) compliance, with high parts commonality between models.

VIP PALLET SEATING

Our air transportable VIP pallet provides high-comfort seating and amenities – including lavatory and galley – for VIP travelers. All in an efficient profile. You can choose customized configurations on standard -463L pallets to meet multiple mission requirements.

WIRED SYSTEMS

Providing design and fabrication, with unsurpassed expertise for smooth, efficient integration. Complementary products and services to the Flight2 avionics upgrade.

LANDING SYSTEMS

LOCK-RING WHEEL AND CARBON BRAKE SYSTEM

Maximizes performance and reduces operating cost through 8X longer brake life, 80 percent faster tire change, 15 percent shorter stopping distance, 25 percent reduced operating temperatures and 17 percent lighter weight.

MECHANICAL SYSTEMS

CARGO WINCH

Your choice of above- or below-floor design. The below-floor design offers safer maneuverability and extends cargo space. It has a rated load of 28.9kN (6,500 lbs.) with full, variable speed control and a maximum speed of 15.8 mpm (40 fpm).

STATIC LINE RETRIEVAL WINCH

Compact and lightweight, this winch has a rated load of 9.79kN (2,200 lbs.). It offers switchable speed control, self-monitoring, full EMI protection and full, active power factor correction to meet DO-160G harmonic distortion.

MISSION EQUIPMENT

DIGITAL GPS ANTI-JAM RECEIVER (DIGAR)

Comprising the best airborne GPS anti-jam antenna electronics available, DIGAR supports 16 simultaneous steered beams to provide superior jamming immunity in the most severe GPS-challenged environments.

TERRAIN REFERENCED NAVIGATION

Our TERPROM® terrain navigation system integrates aircraft data with digital terrain and obstruction map data to enhance situational awareness and capability while reducing pilot workload. It also features a predictive ground collision avoidance system (GCAS) that provides minimal nuisance warnings based on aircraft maneuver capability versus terrain and obstructions ahead at the point where the pilot is required to take action.

MODERNIZED HF

Offering a wide range of HF capabilities, Collins Aerospace provides a reliable, beyond-line-of-sight (BLOS) communications backbone that augments SATCOM. Modernized HF promotes mission success in all conditions while delivering low operating costs. Our HF communications systems are equipped on nearly all airlift, tanker and bomber assets used in the U.S. DoD today.

PROPULSION

PROPELLER MODERNIZATION

Improves reliability, performance and readiness. This upgrade enhances propeller thrust at takeoff and climb by 20 percent and shortens heavyweight takeoff by 305 meters (1,000 feet). It also reduces crew fatigue and cockpit noise. The new propeller requires half the maintenance hours of the 54H60 propeller.

DEFENSE SERVICES

Customized solutions that support your systems' life cycle value and sustainment in multi-domain operations. Collins consistently exceeds our military customers' expectations – by reducing turnaround times, back orders, spares requirements and program costs with tailored solutions to meet operational readiness needs now.

THE MOST BENEFICIAL FIT

Why choose Collins Aerospace for your C-130H upgrade?

We are the original equipment manufacturer on all the elements in your C130H upgrade solution. We have the product knowledge to best support the objectives you want for your fleet. We've designed every product, system and service to work together, and we have the proven integration experience to ensure a smooth upgrade transition.

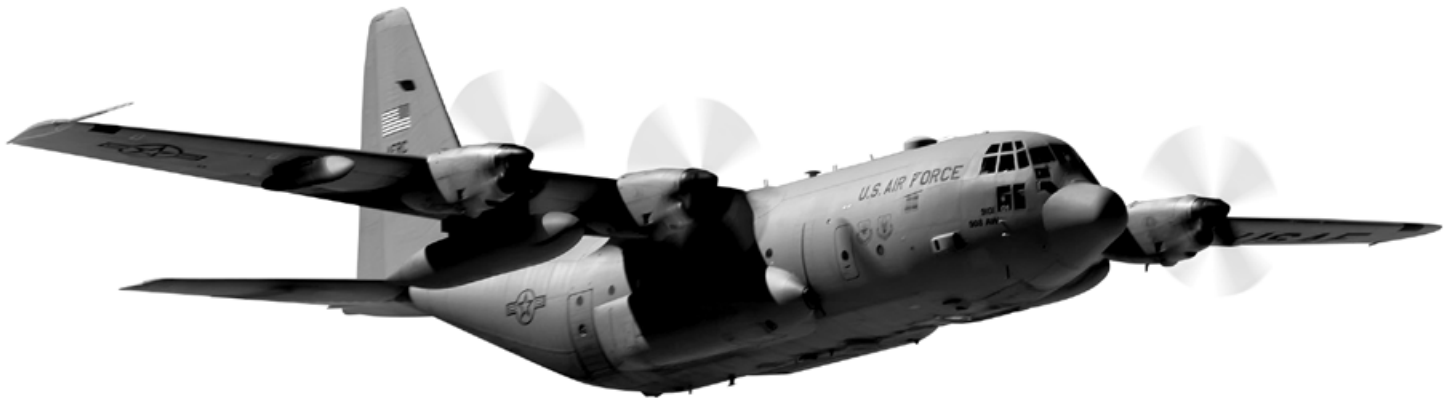
We are partners. We support you with speed and ease, and are dedicated to keeping you mission ready. Our worldwide network of service centers will be there to repair our equipment for decades to come. We'll provide you a level of service that's appropriate for your operations to get you flying again as soon as possible.

We don't require you to buy a long-term service contract with the upgrade.

We're happy to work through your in country MRO or other third parties to address installation and maintenance.

We are innovators. We invest billions of dollars in research and development to create new technologies, new products and new processes.

INTELLIGENT SOLUTIONS ACROSS THE AIRCRAFT



AIRFRAME SYSTEMS

- Actuation
- Exterior lighting system
- Flight deck lighting system

AVIONICS

- Air data sensors & systems
- Angle of attack (AOA) sensors
- Automatic direction-finding (ADF) equipment
- Automatic flight control systems*
- Integrated avionics systems*
- Enhanced Vision System (EVS)
- Head-up display (HUD)
- Temperature sensors
- Terrain awareness & warning system (TAWS)
- VOR (omnirange) receivers

DEFENSE SERVICES

ENGINE & ENGINE COMPONENTS

- Bleed air systems
- Full authority digital controls (FADEC)
- Propeller systems

GROUND SYSTEMS & SUPPORT

- Simulation & training solutions

INTERIORS

- Air drop/parachutist system
- Cargo systems
- Passenger seating
- Pilot & crew seating
- Wired systems

LANDING SYSTEMS & COMPONENTS

- Aircraft wheels
- Carbon brakes
- Landing & braking control systems

MISSION EQUIPMENT

- Mission computers & networking
- Radio communications
- Secure GPS
- Terrain referenced navigation

POWER & ENVIRONMENTAL SYSTEMS

- Environmental control system
- Fuel injection systems
- Fuel management systems
- Ice detection & prevention systems
- Power distribution
- Thermal management
- Water & waste systems
- Windscreen wiper systems

SAFETY & SECURITY SYSTEMS

- Fire protection systems

* Offered as an aftermarket upgrade for C-130H only

To learn more, go to
collinsaerospace.com

Collins Aerospace
defenseaftermarket@collins.com
collinsaerospace.com