



CARGO ON/OFF LOADING SYSTEM (COOLS)

COMPLETE MORE MISSIONS

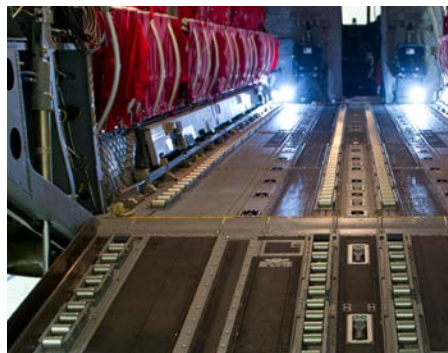
It doesn't get any cooler than this. At Collins Aerospace, we're offering customers a versatile solution to transform the floor of an aircraft from troop to cargo in less than 15 minutes. This means more uninterrupted missions as customers support both troop and cargo missions at anytime, anywhere.

RAPID RECONFIGURATION

Whether the aircraft is in flight or on the ground, COOLS provides a quick and effortless conversion from troop floor (flat) to a full cargo handling system (rollers up) in a matter of minutes.

We developed COOLS with nothing but our warfighters in mind. The system is

robust, easy to use and ergonomically considerate. And just as important, COOLS minimizes injury and resources required to reconfigure the entire system; ultimately, making the system more affordable and efficient.



KEY FEATURES AND BENEFITS

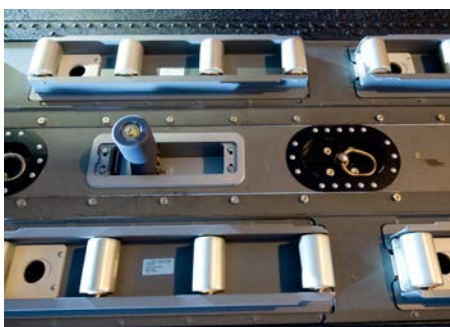
- Takes 15 minutes or less to change between troop and cargo modes, with no tools required
- Accommodates standard 463L pallet cargo system with simplified side locks
- Integrated lightweight ballistic protection system stows under floor
- Able to change between troop mode and cargo mode in flight, enhancing margin of safety when the mission changes en route



COOLS for CH-47 Chinook

COOL ELEMENTS

- Cabin floor and hatch panel with isolators and roller tray troughs
- BL 0, +/- 20 and +/- 44 beams, tie down beams with all 5k and 10k tie downs
- All ramp hardware, which includes the floor, rollers and flippers
- Roller trays
- Side restraint system and acutators
- End stops
- Hatch rollers
- Bridge rollers
- Center guides
- Ramp/flipper support stands



Roller trays are flipped manually with no tools required for a flat troop floor

EASE OF OPERATION

- Simple operating side locks for 463L pallets
- Flip over roller trays
- Quick change troop to cargo with no tools required
- On-board component stowage under floors
- Modular, removable
- 35- and 55- troop seat configuration
- Supports multi-pallet configurations



Complete cargo system can be transformed to a troop system in less than 15 minutes

OPTIONAL BALLISTIC PANEL

- Underfloor mounted
- Modular, reusable, removable, self-contained
- Modular storage when not in use
- Compatible with COOLS for both troop and cargo missions
- Finished areal density of 3.1 pounds per square foot using a polyurea coating
- Nominal finished armor thickness of 0.61"
- Meets MIL-STD-662F (2,850 fps) requirements for 7.62x51mm M80 Ball V50 Velocity= \sim 2,950 fps
- Meets MIL-STD-662F (3,150 fps) requirements for 5.56x45/55mm M193 FMJ V50 Velocity $>$ 3,450 fps



Ballistic panels provide added protection with minimal weight variance over the legacy system

Specifications subject to change without notice.



Collins Aerospace

Chuck Thompson – Business Development Manager
chuck.thompson@collins.com

collinsaerospace.com