

TALON[®] LC Hydraulic HEC Dual Cargo Hook System for the Bell 429 Aircraft









New HEC Dual Hook Systems for Bell Aircraft

Onboard Systems is comitted to rolling out new Human External Cargo (HEC) dual hook systems for a wide variety of aircraft models, and is currently developing a kit for the Bell 429 aircraft. This new kit will provide an STC-certified solution for a variety of CFR Part 133 external load missions, including HEC, high-value cargo transport, utility line work, short haul, and search & rescue.

Bell 429 Systems

unloading.





/ Improved ground clearance — Compared to the OEM design.

At Your Fingertips — Primary release via an electrical button on the cyclic, with backup release via a hydraulic dual master cylinder installed on the collective. Dual master cylinder is compliant with both FAA and EASA requirements for preventing inadvertent release.

Load Capacity — With the Y-rope attached to both cargo hooks, the dual cargo hook system load limit is 1,322 lbs (600 kg) for both HEC and non-HEC (NHEC) missions. When an NHEC load is attached to only the primary cargo hook, the normal aircraft load limit of 3,000 lbs (1,361 kg) applies.

Multiple Configurations — Optional kit configurations include fixed and/or removable provisions, an Onboard Weighing System for the primary cargo hook, and a Personnel Carrying













Figure 2: A Y-rope is required when conducting human external cargo (HEC) missions using Onboard's dual cargo hook kits to provide a controlled interface between the two cargo hooks and the longline.

Device System (PCDS) including the Y-rope, rigging plate, and longline.

Other Considerations



HEC Y-Rope — The only part of the personnel carrying device system (PCDS) that must be purchased from Onboard to use any of these kits for HEC missions are the kit-specific Y-Ropes (see Figure 3), as it is part of the STC equipment. Because the Y-Rope is needed for transporting humans, it carries additional manufacturing and quality requirements as compared to non-human bearing components. Our STC will allow for local approvals of alternatives for any components below the Y-Rope.

Onboard also offers optional HEC Longline Kits that include an HEC Longline (#1) along with the Y-Rope, a 25-lb. weight bag (#2), a rigging plate (#3), and a lanyard (#4) to connect to your locallyapproved PCDS harness.



HEC Longlines & Accessories — Onboard can also provide other essential components for properly rigging your aircraft to carry human external cargo, such rigging plates, longlines, weight bags, lanyards, and carabiners (see Figures 1-4 below). These parts can be submitted for local approvals.

For more information on these components, please visit our website where you can sign up for our product information list to get periodic project status updates including certification, pricing, and product availibility for these kits.

Timeframe

Based on our experience in developing other HEC-approved dual hook kits, we anticipate that the Bell 429 system will be certified by the FAA and ready for sale in the spring of 2024. Onboard will also apply for Transport Canada and EASA certifications.

Contact Us

For more information, please contact one of the sales team members listed on the back of this brochure.

Program Contacts

Brendan Fitzpatrick

Business Development Manager Phone: +1.360.546.3072, ext. 136 Mobile: +1.360.989.5624

Email: brendan@onboardsystems.com

Sergio Gemoets

Key Accounts Manager, US & Latin America Phone: +1.360.546.3072, ext. 142 Email: sergio@onboardsystems.com

Brandon Lowe

Aftermarket Sales Manager, Canada & International Phone: +1.360.546.3072, ext. 218 Email: brandon.lowe@onboardsystems.com









Onboard Systems International, LLC

13915 NW 3rd Court Vancouver, WA 98685 United States



+1.360.546.3072



+1.360.546.3073



sales@onboardsystems.com

www.OnboardSystems.com