



## 500 LBS HIGH ALTITUDE LOW OPENING (.5K HALO)

### OVERVIEW:

The 500 pound (.5K) High Altitude – Low Opening (HALO) system is part of a scalable family of HALO systems capable for delivering payloads ranging from 50 to 42,000 pounds. This HALO system combines the accuracy benefits of a high velocity system with the payload survivability of a low velocity system, while using as many standard inventory components as possible. In order to conduct airdrop in a high threat environment, the Air Force is often required to operate at altitudes as high as 25,000 feet MSL. From these altitudes, a parachute must fall very quickly to exit the airspace and to minimize the drift effects due to wind. However, only certain types of cargo are rated to survive a ground impact at such a high rate of speed. By deploying a larger parachute closer to the ground, the rate of fall is greatly decreased, allowing for a larger variety of payloads to be dropped.



**"Triple Cross" Main Canopies**

### DESCRIPTION:

500 lbs High Altitude Low Opening (.5K HALO) system is an inexpensive/expendable system that allows for high altitude ballistic airdrop operations with moderate accuracy. The system consists of a cone drogue, a Wireless Activation Device (WAD), and is compatible with all Low Cost Low Altitude parachutes. The .5K HALO system is deployed from high altitude, outside the ground to air threat to the aircraft, and descends rapidly under drogue, minimizing the effects of wind conditions and making for a more accurate system. The WAD deploys the system's main LCLA parachute(s) at the appropriate minimum elevation above the target, considerably reduces the system descent rate, resulting in increased payload survivability. The system leverages main parachutes in the Army inventory and which are actively being sustained and, with the incorporation of two additional components at the field level, provides a significant increase in operational capability. Supporting the 50-500lb weight range, .5K HALO is the only system that allows for expendable/low cost high altitude airdrop that results in moderate accuracy and high payload survivability.



**System Under Drogue**



**Transition to Main**



**System Under Main Canopy**

### POINT OF CONTACT:

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