

DESCRIPTION OF HALO DROPPED BUNDLES

The HALO Detachment, A214, Company B, 1st SFG (Abn), has developed a technique for dropping large bundles from high altitudes by HALO, causing them to arrive on target with minimal dispersion.

A large, single bundle was rigged, composed of four (4) separate 125 lb bundles, stacked one on top of the other. The bottom three bundles were "daisy chained" by static lines to each other and Nr. 2 bundle was attached to Nr. 1 by static line. (See photo A).

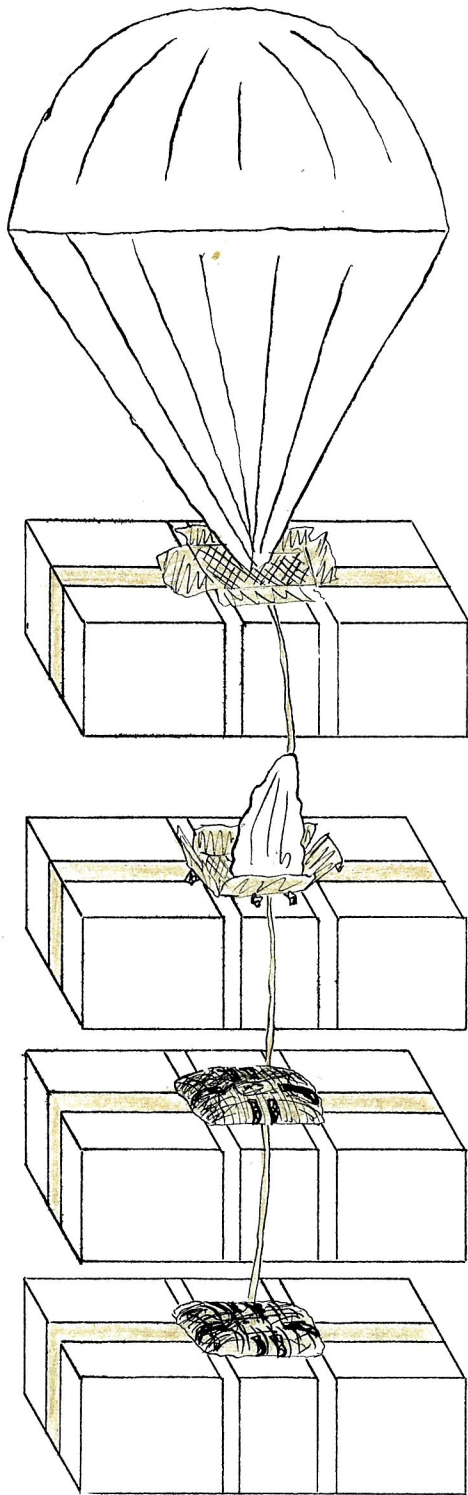
Two FIB automatic opening devices were attached to the parachute of bundle number one (See photo A). The FIB's were fixed to activate at 1,500 feet. When the FIB's opened the first parachute, a small top type A-1 pilot chute deploys the canopy and also pulls the firing pin of six two second cutters. (See photo B). Once the two second cutters activate, they cut three straps that secure the bundles together. (See photo B). After the three straps are cut, the four bundles separate. By this time the first parachute has opened and this starts the daisy chain action.

During free fall, the bundle is stabilized by two 36 inch pilot chutes, which are static line deployed from the aircraft. (See photo C).

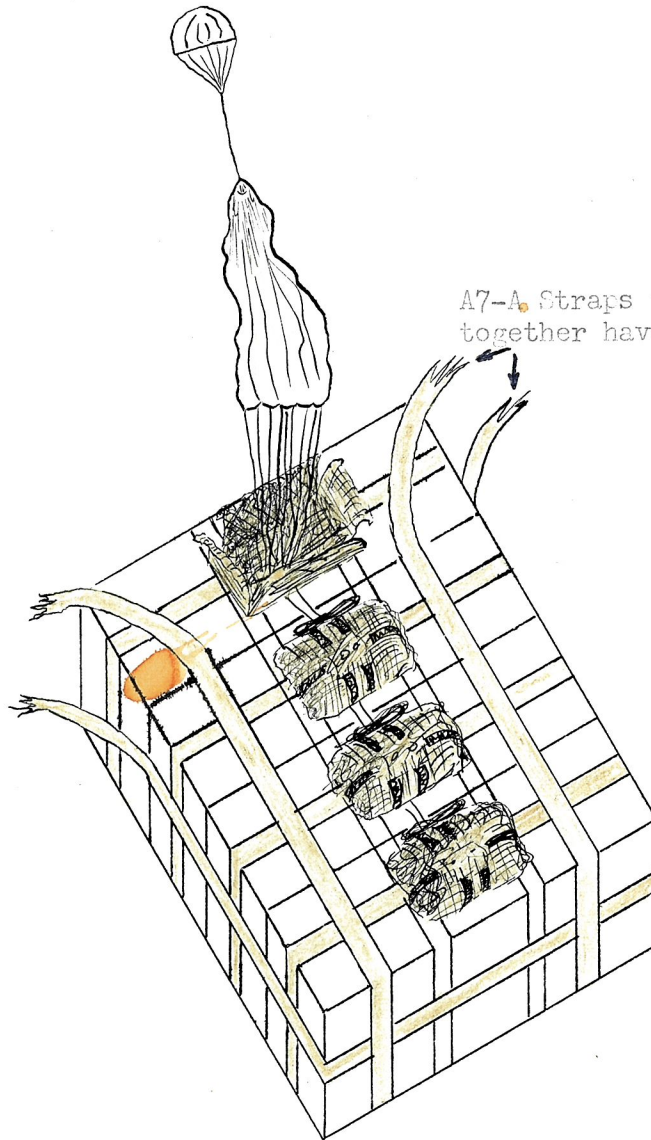
The bundle is constructed with two FIB timers and six cutters to insure positive operation. The weight of the bundles may be varied. The 125 lb bundles were arbitrarily selected as a test vehicle. (The weight of bundles is dependent only on the capacity of the aircraft).

This bundle was dropped from 8,000 feet in Taiwan. Five HALO instructors exited after the bundle opened and remaining four bundles were open between 1,200 and 1,500 feet. The bundles arrived on target with a dispersion pattern less than 100 feet diameter.

The A7-A straps that secure the bundles together are fixed to the bottom bundle, to insure DZ sterilization.

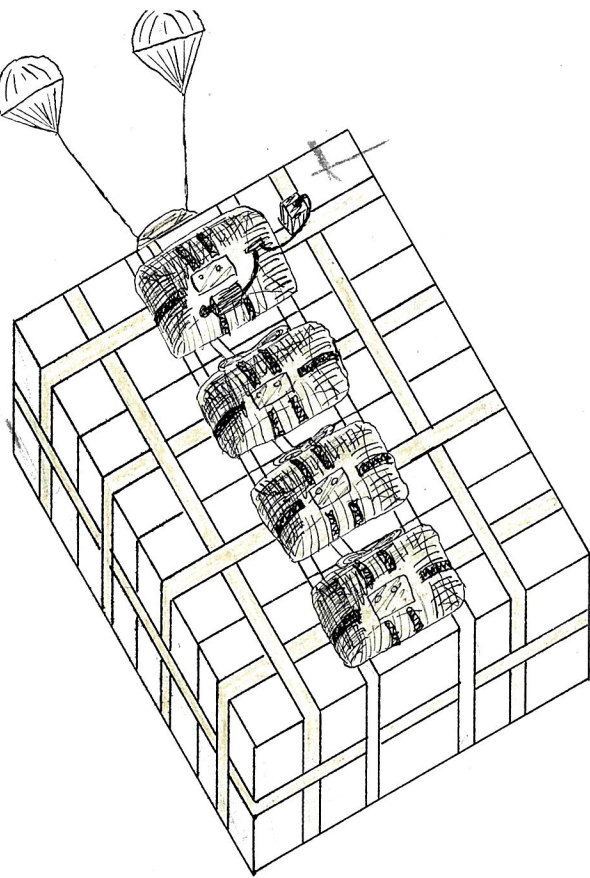


As one chute opens, it pulls the next chute as the bundles fall apart.

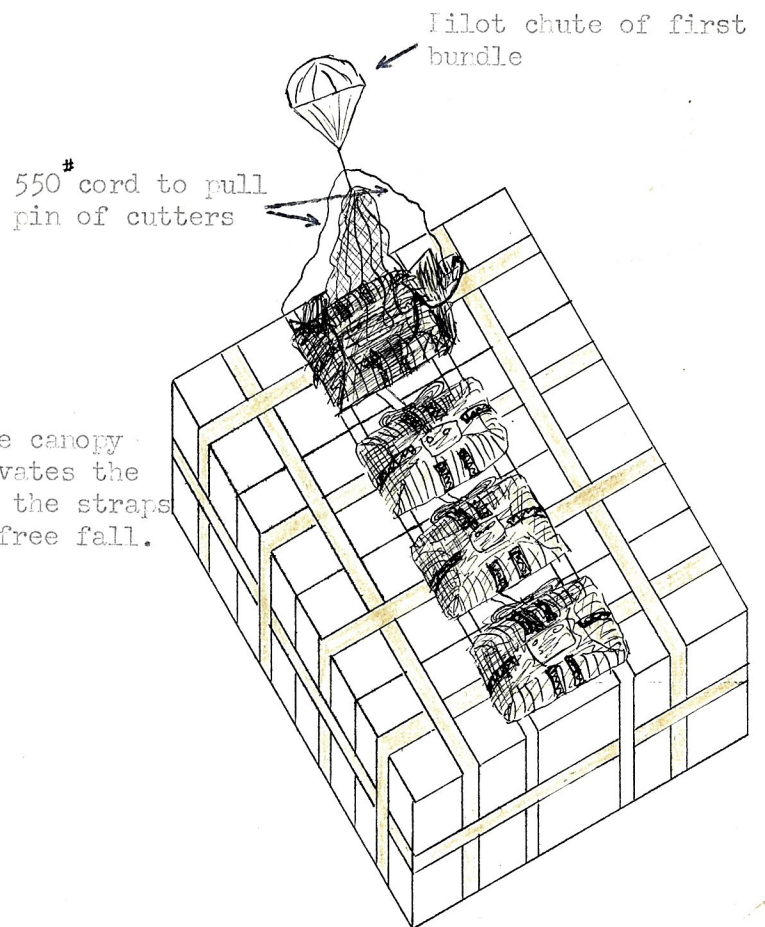


A7-A Straps that secure the bundles together have been cut.

Once the straps have been cut, the bundles separate as the first parachute opens.



Bundle in free fall



As the pilot chute pulls the canopy from the pack tray, it also activates the two second time cutters that cut the straps holding the bundles together in free fall.

