
Butler Tactical Parachute Systems, LLC

A division of Butler Parachute Systems Group, Inc.

TT-600 Tethered Tandem Bundle Delivery System



Background:

The Tethered Tandem Bundle Delivery concept is not new; in fact, it originated with a US Government Agency shortly after tandem skydiving became popular in the 1980's. However, heretofore, the systems commonly in use have been cobbled together from skydiving equipment and have proven to be only marginally acceptable. In particular, there was a very large occurrence of canopy failures (>90% for some operators), which caused operators of these systems to search for an alternate canopy. The new canopy selected was the Butler Parachute Systems **HX-500**. To date, Butler has supplied this canopy to over a dozen operating units worldwide. There have been no reported failures of this canopy when operated within its (very generous) operating limits of 500 lb gross weight at 180 KTAS.

Recently, after listening closely to the wants and needs of Special Forces Operators from around the world, our designers crafted a tethered tandem bundle system that outperforms all other systems on the market. Our **TT-600 SYSTEM** (note the emphasis on *system*) is carefully designed to solve the numerous problems of previously available systems. It provides a superior solution to the needs of the Special Operations community for fast, accurate, and reliable aerial delivery.

With the Butler Parachute Systems **HX-600 canopy**, the system can deliver net payloads up to **600 Lbs (272 Kg)**; 200 Lbs (91 Kg) more than other systems on the market .

The operator has a choice of three methods for delivering equipment using a three-way deployment sequence. The operator may choose from the following options:

- Under any circumstances (including drogue fall or a main parachute malfunction), he may pull the release handle and allow the bundle to fall to a preset altitude, at which time the main canopy will open (CYPRES AAD Compatible).
- While under his main or reserve parachute, he also has the option of quickly attaching the static line, pulling the release handle, and having the bundle parachute deployment sequence begin immediately. Using the static line deployment option, the bundle may be released from the operator as low as 300 feet AGL. No other parachute allows such a low altitude drop
- Finally, should he choose, he may land under his main parachute with the bundle still attached. Once on the ground, the bundle itself can be quickly cut free of its harness with the hook knife conveniently located on the parachute container.

To ensure reliability in a wide variety of operating scenarios, the TT-600 utilizes the Military or Tandem CYPRES AAD. The CYPRES unit is well protected from rough handling (inside the container) and exposure to hostile weather. The CYPRES control pendant, is easily accessible (on the harness cover), and offers the Jumpmaster an un-obstructed view for pre-drop checks.

All hardware utilized on the bundle harness is stainless steel or cadmium plated. The system is compatible with virtually all tandem parachute systems in use worldwide. Total weight of system (including harness/container, d-bag, HX-600 canopy, pilot chute, and CYPRES) is approximately 20 Lbs (9 Kg).

Please see the cover photographs for an overall system view. See the following photographs for more detail.



Two layer top flap system provides security and protection for the Static Line, Safety Cable, and Cypres Closing Pin.



Harness cover with secure Static Line Carabiner, in-flight accessible Hook Knife, and easily viewed Cypres Control Pendant.



Standard harness attachment configuration consisting of a welded RW-10 / MS22042 Butterfly Snap (either cadmium or nickel plated). This hardware has an approximate safe working load of 3,500 lb.



Optional Main attachment fitting: Stainless Steel Snap Shackle (Wichard p/n 2272) with a Butler custom, machined Stainless (17-4) ring. This hardware has an approximate safe working load of 7,000 lb.

The TT-600 Tethered Tandem Delivery System Kit consists of the following:

- One TT-600 Standard CYPRES-ready container and harness with hook knife, static line, and static line carabiner.
- Customer-specified harness attachment hardware.
- One HX-600 parachute canopy with deployment bag and pilot chute.
- One Barrel Harness assembly consisting of:
 - one each top/bottom center cross pieces,
 - MIL-W-4088 Type 7 webbing for longitudinal webbing straps
 - five thread-thru lateral straps,
 - four upper corner attachment points with stainless delta ring,
 - one 4-leg suspension sling,
 - one mid-point suspension sling with 1-1/2 ton swivel,
 - two quick-attach handles, and
 - six quick-attach tie down loops.
- Note that the Barrel Harness for use with the TT-600 is constructed of MIL-W-4088 Type 7R webbing, with stainless steel and cadmium plated hardware and attachment points, and is compatible with barrel sizes ranging from 24 inches to 36 inches in diameter. It may be easily adapted to other shapes such as cruise boxes, etc.
- A kit bag to contain all of the above.

Butler Tactical Parachute Systems, LLC

1820 Loudon Ave., NW

P.O. Box 6098

Roanoke, VA 24017

540-342-2501

540-342-4037 FAX

www.butlerparachutes.com

e-mail: sales@butlerparachutes.com