



SI-PFB-20-01-MTTB

PAT PENDING. MULTI-MISSION TANDEM AIRDROP BARREL SYSTEM



SWORD Defense System's Multi-Mission Tandem Airdrop Barrel System (Patent Pending) addresses the problems surrounding the traditional tandem container, which is a critical component to the Air Delivery Mission-set. All efforts and innovation in this space have traditionally been spent on what attaches skyward (or "North") of the load connection point, which is primarily the rigging and Parachute system.

When designing the system, our approach was a multifaceted coordination effort to exceed the requirements of Special Operations end-users, allowing us to address a myriad of problem statements, such as: decreasing the bundle build and packing time; allowing for "on the plane" loading over the objective; making the container water-tight; protecting the payload during the impact phases of delivery; creating a system that can be deployed in all of the required airdrop configurations; decreasing exit and opening shock to prevent injury to the jumper and/or system; and providing a safe, intuitive system that packs and performs consistently from exit to impact.

SWORD TANDEM AIRDROP BARREL SPECIFICATIONS

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|-----------------------------|---|
| Main Barrel System | <p>The main barrel is single walled with SWORD's patented integrated channels for the main strapping system.</p> <ul style="list-style-type: none"> • Upper & lower lip of the barrel reinforced for durability and impact resistance • The Main lid includes cut-outs for the strapping system to pass through |
| Dimensions and Material | <ul style="list-style-type: none"> • 31in (79 cm) in diameter and 60 in (152 cm) in height uniform and cylindrical in shape • X-Link High Density Polyethylene (HDPE) |
| Payload | <ul style="list-style-type: none"> • Max suggested training exit weight 750 lbs. (340 kg) • Double barrel design with integrated, continuous strapping system Rated to 12,600lbs. (5,715kg) |
| Wheel | <ul style="list-style-type: none"> • 3" X 2.8" Wheel with nylon bushing with .5" bore 80A Black Polyurethane • Integrated horizontal deployment wheel carriage |
| Impact Dissipating Material | Multiple-use internal payload impact dissipating material - Team Wendy designed Proprietary material |
| Color | <ul style="list-style-type: none"> • .375-inch Silicone Gasket • Water and dust intrusion resistant (IP67) |





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SWORD TANDEM AIRDROP BARREL SPECIFICATIONS

Technology

- Integrated Smart Bundle Delivery System Platform (JPADS)
 - Intuitive captive hardware
- Optional:**
- GPS/Iridium tracking system for real time PLI tracking
 - Intuitive ballast system assures safe fall rate and center of gravity
 - Fall Rate Calculator takes the guesswork out of packing & weighing the barrel system

Strapping System and Push Handles

- Integrated push handles to aid in vigorous exit out of aircraft
- All Nylon Straps MILSPEC Type 7 Tensile Strength: 6000 lbs. (2722 kg)
- Double barrel design with integrated, continuous strapping system Rated to 12,600lbs. (5,715kg)
- Inner payload barrel strapping system included for ease of removal and replacement
- Integrated strap loops for attaching accessories and for attachment of cross-straps

Metal Components & Fasteners

- 306 Stainless Steel
- All hardware rated to 10,000 lbs.

Lid Gasket

- .375-inch Silicone Gasket
- Water and dust intrusion resistant (IP67)

