



TACTICAL PARACHUTE DELIVERY SYSTEMS, Inc.

**LIGHT LOAD TACTICAL
(LLT)
BROCHURE**

2018

6520 Fort King Rd.
Zephyrhills, FL 33542 U.S.A.

Phone: +1 813.782.7482

Fax: +1 813.788.2799

Email: info@tpdsairborne.com

Website: www.tpdsairborne.com



LIGHT LOAD TACTICAL by Tactical Parachute Delivery Systems

LIGHT LOAD TACTICAL

Airborne Harness/Container System

The **Light Load Tactical** is a complete assembly of military equipment manufactured to the highest standards using the best **Military Specification** materials available in today's market. The **LLT** is manufactured in the United States in a facility that is Federal Aviation Administration (**FAA**) certified for manufacturing parachute equipment.

The **Light Load Tactical** is designed for HALO-HAHO operations and training with a single operator carrying full combat equipment and bundles without the use of a drogue pilot chute.

The **Light Load Tactical** consists of a **Main Container** with a choice of multiple main parachutes and a **Reserve Container** with a choice of multiple reserve parachutes.

The **Light Load Tactical** may be set up for **Static Line** or **Freefall**.

It is designed to accommodate any size jumper with any aircraft commonly used in military operations.

Main Container Capabilities and Features:

Physical Specifications:

Materials:

Container-

1000 Denier Nylon Cordura

Deployment Bag-

500 Denier Cordura

Webbing:

Main Lift Webbing-

1 23/32" (4.3 cm.) wide Type 7 Mil-W-4088

Tensile Strength **6000 lbs. / 2721 kg.**

Main Risers-

1 23/32" (4.3 cm.) wide Type 8 Mil-W-4088

Tensile Strength **4000 lbs. / 1814 kg.**

Reserve Risers-

1 23/32" (4.3 cm.) wide Type 13 Mil-W-4088

Tensile Strength **7000 lbs. / 3175 kg.**

Leg Straps-

1 23/32" (4.3 cm.) wide Type 7 Mil-W-4088

Tensile Strength **6000 lbs. / 2721 kg.**

Chest Strap-

1 23/32" (4.3 cm.) wide Type 8 Mil-W-4088

Tensile Strength **4000 lbs. / 1814 kg.**

Laterals-

1 23/32" (4.3 cm.) wide Type 8 Mil-W-4088

Tensile Strength **4000 lbs. / 1814 kg.**





Materials cond. :

Hardware:

Main Canopy Release System-

3-Ring Release System

Tensile Strength **5000 lbs. / 2270 kg.**

Main Lift Webbing Adjusters-

Quick Fit Ring w/Friction Lock #555-2

Tensile Strength **2500 lbs. / 1130 kg.**

Lateral Adjusters-

Locking Adapter PS 70124-1

Tensile Strength **2500 lbs. / 1130 kg.**

Chest Strap Hardware-

B-12 PS 22044-1 / PS 22017 Quick Ejector or PS22040
with "V" Ring Quick Fit Bar PS 27765

Tensile Strength **2500 lbs. / 1130 kg.**

Tensile Strength **2500 lbs. / 1130 kg.**

or

PS-70101 Friction Adapter

Leg Strap Hardware-

B-12 PS 22044-1 / PS 22017 Quick Ejector or PS22040
with "V" Ring Quick Fit Bar PS 27765

Tensile Strength **2500 lbs. / 1130 kg.**

Tensile Strength **2500 lbs. / 1130 kg.**

Top Connector Point-

"D" Ring PS 22046-1

Tensile Strength **5000 lbs. / 2270 kg.**

Lower Connector Point-

Accessory Ring

Tensile Strength **500 lbs. / 230 kg.**

Static Line Snap Hook

Tensile Strength **1750 lbs. / 800 kg.**

Grommets

#0 Stainless Steel

Size:

Container -

22" high x 15" wide x 10" deep

55.88 cm. x 38.1 cm. x 25.4 cm.

Weight:

Container -

13 lbs. (5.9 kg.)

Fabric Colors:

Black, Smoke, Desert Camouflage, Woodland Camouflage, Multi-Camouflage, Olive Drab Green and others upon request.

Harness Colors:

Black, Smoke, Silver, Olive Drab Green and others upon request.





Light Load Tactical (LLT)

Military TPDS-LLT

Outboard Reserve Ripcord Handle
 Outboard Main Canopy Release Handle
 Outboard Main Ripcord Handle
 D-Ring Hook-up x6

The **TPDS Light Load Tactical (LLT)** is designed for HALO-HAHO operations and training with a single operator carrying full combat equipment and bundles.

The **TPDS-LLT System** accommodates TPDS Main and Reserve Canopy sizes from 220-400 sq. ft. according to the end user's tactical and training requirements.

TPDS specializes in the custom applications and requirements of the end user.

TPDS- LLT Specs:

Maximum Suspended Weight: **550 lbs.** / (249.5 kg.) depending on the canopy size.

Maximum Deployment Altitude: 35,000 ft. (10,668 m) Some restrictions apply depending on canopy size and type.

Minimum Deployment Altitude:

Main Canopy- 4500 ft. (1400 m)

Reserve Canopy- 2000 ft. (600 m)

Equipment Configuration: 6 attachment points for bundles Front, Front Lower and Back Lower.

Main Canopies: TPDS 220-400 sq. ft.

Reserve Canopies: TPDS 220- 400 sq. ft.

Harness/Container Weight: 13 lbs. (5.9 kg.)

Reserve AAD Set-up:

Military Cypres AAD

Astra by FXC

Military Vigil

Military Argus

Installation according to AAD and/or end user's requirements.

Reserve Static Line: Standard RSL with attachment to the Left Main Riser and Reserve Cable.

Main Deployment Options:

- Throw-out Bottom of Container (BOC)
- Spring-Loaded Pilot Chute w/BOC and/or Chest Mounted Ripcord.



TPDS- LLT Specs cond.:

Main Deployment Options cond.

- Static Line Deployment with Direct Bag, Spring Loaded Pilot Chute Assist or Throw-out Pilot-Chute Options.

Main AAD Options:

AR-2 or equivalent.

Main Risers:

Type 8

Main Toggles/Trim:

HAHO Toggles w/HAHO Extensions and Front Riser Trim Tabs and Front Riser Loops.

Harness:

Adjustable Main Lift Web
Adjustable Laterals.
Adjustable Leg Straps.
Adjustable Chest Strap.
Adjustable Bellyband or
Removable/Adjustable Bellyband.

Leg Hardware:

B-12 Snaps, Thread-Thru or Quick Ejector

Chest Hardware:

B-12 Snaps, Thread-Thru or Quick Ejector

Container Material:

1000 Denier Nylon

Container Colors:

Black, Silver, Dark Grey, Olive Drab Green, Desert Camouflage, Woodland Camouflage, Multi-Camouflage, others upon request.

TPDS- LLT Standard System

Features:

- 6 Cargo Attachment Points
- Fully Adjustable Harness
- Adjustable or Detachable Bellyband
- Weapon Stow Loops.

TPDS- LLT Optional System

Features:

- Removable **HAHO** Seat Sling.
- **Main Assisted Reserve Deployment (MARD) “Reserve Boost” System**



TPDS- LLT Light Load Tactical



- Reserve Static Line Release Clasp
- Upper D-Ring Hook-up (x2)
- Outboard Main Ripcord Handle
- Outboard Reserve Ripcord Handle
- Outboard Main Canopy Release Handle
- Lower D-Ring Hook-ups (x4)

TPDS- LLT (rear view)



- AAD Clear Inspection Window
- Reserve Pin Inspection Window
- Static Line Stow Bands
- Chest Main Ripcord Housing
- Rear Ripcord Housing
- Throw-out Pilot Chute Handle



CANOPY FABRIC SPECIFICATIONS

<u>TEST NAME</u>		<u>COMMERCIAL</u>	<u>TEST METHODS</u>
			<u>FEDERAL STAN- DARD 191</u>
MATERIAL	■ 30 Denier, High Tenacity, Bright Nylon, Heat and Light Inhibitors	■ AATCC 20	Method 1530
TWIST	■ Producers Warp and Fill	■ ASTM-D-1423	Method 4050
MELTING POINT	■ 489°F + or - 10°F	■ AATCC-20	Method 1534
WEAVE PATTERN	■ Rip Stop 7.5 Minimum Repeats Per Inch	■ Visual	(Visual)
WEIGHT (max.)	■ 1.17 OSY	■ ASTM-2376 Opt. C	Method 5041
THICKNESS(max.)	■ .0030 Inches	■ ASTM-D-1777	Method 5030
STRENGTH (min.) 1"strip	■ 47 x 47 Pounds	■ ASTM-D-50351 R	Method 5104
ELONGATION (min.)	■ 25%	■ ASTM-D-50351 R	Method 5104
TEAR STRENGTH (min.)	■ 5 x 5 Pounds	■ ASTM	Method D 2261 or 2262 (1983)
AIR PERMEABILITY	■ .5-3.0 CFM	■ ASTM-D737	Method 5450
CONSTRUCTION (min.)	■ 130 x 132	■ ASTM-D-3775	Method 5050
pH	■ 5.5-9.0	■ AATCC-81	Method 2811
COLOR FASTNESS	■ Good (Regular colors)	■ AATCC-61	Method 5614 - Laundering
		■ AATCC-107	Method 5630 - Cold Water
		■ AATCC-16 A	Method 5660 - Light (20 hrs.)
		■ AATCC-8	Method 5651 - Crocking (3.4 or better)
WIDTH (min.)	■ 48 Inches or 65 Inches	■ FED STD 191A	Method 5020
HEAT/LIGHT RESISTANCE	■ Max. 25% Change	■ MIL C 44378	Para. 4.5.3.1 Light
			Para. 4.5.3.2. Heat
BIAS/BOW (max.)	■ 2 Inches on 48": ■ 2 ^{1/2} Inches on 65"	■ ASTM-D-3882	Method 5060

Specifica- tion	Yarn	Construction	Weave	Widths**	Weight	Thickness	Air Perm	Tear W/F	Break W/F	pH
	<i>denier</i>	<i>count/inch</i>	<i>pattern</i>	<i>inches</i>	<i>oz/sq yd</i>	<i>inches</i>	<i>Cfm</i>	<i>lbs</i>	<i>lbs</i>	
PIA C 44378										
Type 1	30d	114 X 132	Ripstop	48"/65"	1.17	0.003	0-5	5/5	45/45	5.5-9.0
Type 2	30d	126 X 132	Ripstop	36"/48"/72"	1.11	0.003	30-50	5/5	42/42	5.5-9.0
Type 3	30d	114 X 132	Ripstop	48"/65"	1.17	0.003	30-50	5/5	45/45	5.5-9.0