

TACTICAL PARACHUTE DELIVERY SYSTEMS, INC.



LIGHT LOAD TACTICAL

LLT BROCHURE 2025

TACTICAL PARACHUTE DELIVERY SYSTEMS, INC.

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LIGHT LOAD TACTICAL

LLT BROCHURE 2025

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. There are seven (7) points of adjustment to the harness and three (3) easy dress-up points for quick gear-up and gear-off.

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	<i>Tensile Strength</i> 6000 lbs. / 2721 kg.
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Main Risers-

1 23/32" (4.3 cm.) wide Type 8 Mil-W-4088	<i>Tensile Strength</i> 4000 lbs. / 1814 kg.
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Reserve Risers-

1 23/32" (4.3 cm.) wide Type 13 Mil-W-4088	<i>Tensile Strength</i> 7000 lbs. / 3175 kg.
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Leg Straps-

1 23/32" (4.3 cm.) wide Type 7 Mil-W-4088	<i>Tensile Strength</i> 6000 lbs. / 2721 kg.
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Chest Strap-

1 23/32" (4.3 cm.) wide Type 8 Mil-W-4088	<i>Tensile Strength</i> 4000 lbs. / 1814 kg.
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Laterals-

1 23/32" (4.3 cm.) wide Type 8 Mil-W-4088	<i>Tensile Strength</i> 4000 lbs. / 1814 kg.
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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

Grommets

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

#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 200 - 460 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:

Equipment Configuration:

6 attachment points for bundles Front, Front Lower and Back Lower.

Main Canopies:

TPDS-LLT-M-200 - 460 sq. ft.
9 Cell Elliptical

Reserve Canopies:

TPDS-LLT-R7--200 - 460 sq. ft.
7 Cell or 9 Cells Square

Harness/Container Weight:

15-22 lbs. (6.8 -10 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.

TPDS- LLT Specs cond.:

Main Deployment Options:

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

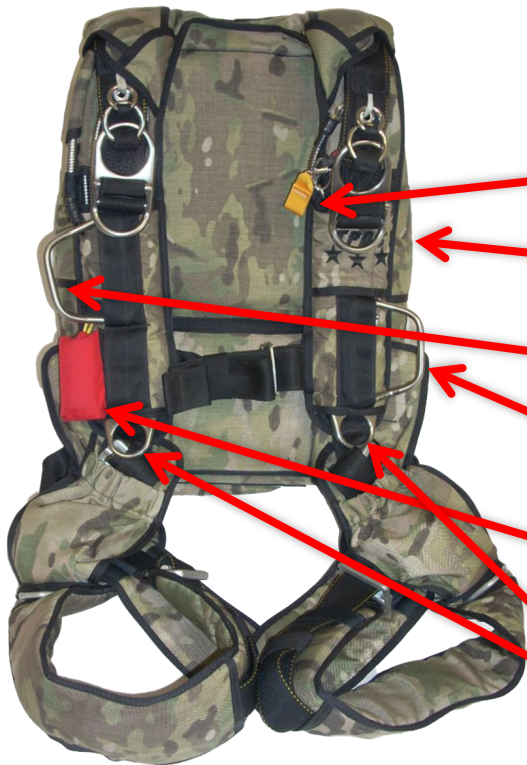
TPDS- LLT Optional System

Features:

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

• Max Deployment Speed	150 knots thru airspeed
• Max Deployment Altitude Static Line	25,000 ft. MSL
• Min Deployment Altitude Static Line	1,500 ft. AGL
• Min Deployment Opening Altitude Free-fall	3,000 ft. AGL
• Max Deployment Speed Static Line	150 knots thru airspeed
• Min Deployment Speed Static Line	60 knots
• HAHO Maximum Opening Altitude	25,000 ft. MSL
• HALO Minimum Opening Altitude	3,000 ft. AGL
• Reserve Minimum Opening Altitude	900 ft. AGL
• Glide Ratio	5 to 1
• Average Opening Force	3.2 G's
• Rate of Descent- Speed Full Flight	10-15 ft/sec. (depends on size of canopy and weight of jumper)
• Rate of Descent- 50% Brakes	5 ft/sec. (depends on size of canopy and weight of jumper)
• Forward Speed	40-50 mph. (depends on size of canopy and weight of jumper)
• 360° Turn	1-5 sec (depends on size of canopy and weight of jumper)

• Weight of Canopy	46 lbs./ 21 kg. and less
• Hardware	Mil. Spec Forged Cadmium Plated Steel or equivalent
• Canopy Fabric	PIA C 44378 Type-4 Ripstop 0.5-3.0 and/ or
• Container Fabric	1000 denier Cordura
• Webbing	Mil. Spec. W-4088 or equivalent



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 (x2 in front, 2 on

TPDS- LLT (rear view)



AAD Clear Inspection Window

Reserve Pin Inspection Window

Static Line Stow Band Loops

Chest Main Ripcord Housing

Rear Ripcord Housing

Throw-out Pilot Chute Handle



The **TPDS-LLT** Light Load Tactical Parachute Assembly with Static-Line.
Direct Bag, Spring-loaded Assist or T/O Pilot-chute Assist

TPDS LLT MAIN DEPLOYMENT HANDLES



Spring-loaded Pilot-chute with Plastic BOC Handle

TPDS LLT MAIN DEPLOYMENT HANDLES



Throw-out Pilot-chute with Hacky Handle on BOC



Spring-loaded Pilot-chute with Stainless Steel “D” Handle.



AFF Jumpmaster Handle for Throw-out Pilot-chute



AFF Jumpmaster Handle for Spring-loaded Pilot-chute

LIGHT LOAD TACTICAL

9 Cells Elliptical - Main Parachute (TPDS-LLT-M)



The TPDS Light Load Tactical Main Parachute is an exceptional medium-high aspect ratio, moderately tapered, nine (9) cell main parachute.

TPDS-LLT-M is an elliptical parachute specifically designed for the Light Load Tactical harness container system, **TPDS-LLT**.

Made from a combination of 1.1 oz. ripstop nylon and zero-porosity this is generally referred to as a hybrid parachute.

The entire line of LLT main parachutes will provide your troops with optimal performance over the entire lifespan of the parachute, while maintaining easy pack-ability and safety for peace of mind.

TPDS-LLT-M

Size & Technical Specifications

Material: Z-P or Hybrid

Lines: Dacron (standard), HMA or Vectran

MODEL - P/N	SPAN	CHORD	ASPECT	Min. Sup.	Max. Sup.
TPDS-LLT-M-200	24.33 ft	8.67 ft	2.818 : 1	84 lb (38 kg)	263 lb (119 kg)
TPDS-LLT-M-220	25.50 ft	9.00 ft	2.821 : 1	92 lb (42 kg)	288 lb (130 kg)
TPDS-LLT-M-240	26.58 ft	9.42 ft	2.823 : 1	100 lb (45 kg)	313 lb (141 kg)
TPDS-LLT-M-260	27.58 ft	9.75 ft	2.825 : 1	108 lb (49 kg)	338 lb (153 kg)
TPDS-LLT-M-280	28.67 ft	10.17 ft	2.827 : 1	116 lb (53 kg)	363 lb (164 kg)
TPDS-LLT-M-300	29.58 ft	10.50 ft	2.828 : 1	124 lb (56 kg)	388 lb (176 kg)
TPDS-LLT-M-320	30.58 ft	10.83 ft	2.830 : 1	132 lb (60 kg)	413 lb (187 kg)
TPDS-LLT-M-340	31.50 ft	11.08 ft	2.831 : 1	140 lb (64 kg)	438 lb (199 kg)
TPDS-LLT-M-360	32.33 ft	11.42 ft	2.832 : 1	148 lb (67 kg)	463 lb (210 kg)
TPDS-LLT-M-380	33.25 ft	11.75 ft	2.834 : 1	156 lb (71 kg)	488 lb (221 kg)
TPDS-LLT-M-400	34.08 ft	12.00 ft	2.835 : 1	164 lb (74 kg)	513 lb (232 kg)
TPDS-LLT-M-420	34.92 ft	12.33 ft	2.836 : 1	172 lb (78 kg)	538 lb (244 kg)
TPDS-LLT-M-440	35.75 ft	12.58 ft	2.837 : 1	180 lb (82 kg)	563 lb (255 kg)
TPDS-LLT-M-460	36.50 ft	12.83 ft	2.837 : 1	188 lb (85 kg)	588 lb (266 kg)

LIGHT LOAD TACTICAL

9 Cells Square - Reserve Parachute (TPDS-LLT-R9-SQ)



The **Light Load Tactical 9-Cell Square Reserve Parachute**, model **TPDS-LLT-R9-SQ**, is a high-performance ram-air reserve canopy engineered specifically for military personnel operating with full combat gear. Featuring a 9-cell square design, it delivers enhanced stability, responsiveness, and glide performance under tactical load conditions.

The **TPDS-LLT-R9-SQ** has been fully certified for use with the **TPDS-RRH-800** Cargo Bag and the **TPDS-860-200** Personal Cargo Drop Harness, ensuring seamless integration with mission-essential equipment in both training and operational environments.

Designed for **HAHO** (High Altitude High Opening) and **HALO** (High Altitude Low Opening) missions, when paired with the Light Load Tactical Harness Container System, the **TPDS-LLT-R9-SQ** provides highly reliable reserve capability. Its flight and landing characteristics closely match those of the **TPDS-LLT-M** parachute, enabling smooth transition and consistent handling in high-stress airborne operations.

TPDS-LLT-R9-SQ

Size & Technical Specifications

Material: PIA-C-44378 Type 4 0.5-3.0

Lines: Spectra (standard) , Dacron or Vectran

MODEL - P/N	SPAN	CHORD	ASPECT	Min. Sup.	Max. Sup.
TPDS-LLT-R9-SQ-200	23.8 ft	8.8 ft	2.7 : 1	105 lb (48 kg)	294 lb (133 kg)
TPDS-LLT-R9-SQ-220	25.0 ft	9.2 ft	2.7 : 1	115 lb (52 kg)	322 lb (146 kg)
TPDS-LLT-R9-SQ-240	26.1 ft	9.6 ft	2.7 : 1	125 lb (57 kg)	350 lb (159 kg)
TPDS-LLT-R9-SQ-260	27.1 ft	10.0 ft	2.7 : 1	135 lb (61 kg)	378 lb (171 kg)
TPDS-LLT-R9-SQ-280	28.1 ft	10.3 ft	2.7 : 1	145 lb (66 kg)	406 lb (184 kg)
TPDS-LLT-R9-SQ-300	29.1 ft	10.7 ft	2.7 : 1	155 lb (70 kg)	434 lb (197 kg)
TPDS-LLT-R9-SQ-320	30.0 ft	11.0 ft	2.7 : 1	165 lb (75 kg)	462 lb (210 kg)
TPDS-LLT-R9-SQ-340	30.9 ft	11.3 ft	2.7 : 1	175 lb (79 kg)	490 lb (222 kg)
TPDS-LLT-R9-SQ-360	31.8 ft	11.7 ft	2.7 : 1	185 lb (84 kg)	518 lb (235 kg)
TPDS-LLT-R9-SQ-380	32.6 ft	11.9 ft	2.7 : 1	195 lb (88 kg)	546 lb (248 kg)
TPDS-LLT-R9-SQ-400	33.4 ft	12.3 ft	2.7 : 1	205 lb (93 kg)	574 lb (260 kg)
TPDS-LLT-R9-SQ-420	34.3 ft	12.6 ft	2.7 : 1	215 lb (98 kg)	602 lb (273 kg)
TPDS-LLT-R9-SQ-440	35.1 ft	12.8 ft	2.7 : 1	225 lb (102 kg)	630 lb (286 kg)
TPDS-LLT-R9-SQ-460	35.8 ft	13.1 ft	2.7 : 1	235 lb (107 kg)	658 lb (298 kg)

LIGHT LOAD TACTICAL

7 Cells - Reserve Parachute (TPDS-LLT-R7)



The **Light Load Tactical 7 Cells Square Reserve Parachute**, model **TPDS-LLT-R7**, is an exceptional ram-air, traditional square parachute specifically designed and tested for military personnel carrying complete combat equipment.

The **TPDS-LLT-R7** has been fully qualified for use with the **TPDS-RRH-800 Cargo Bag** and the **TPDS-860-200 Personal Cargo Drop Harness**, ensuring safe integration with mission-critical gear.

When the Light Load Tactical Harness Container System is used for **HAHO** or **HALO** operations, the **TPDS-LLT-R7** provides reliable reserve capability. Its performance and landing characteristics under tactical loads are virtually identical to the **TPDS-LLT-M** main parachute, ensuring consistent handling and control during high-demand airborne missions.

TPDS-LLT-R7

Size & Technical Specifications

Material: PIA-C-44378 Type 4 0.5-3.0

Lines: Spectra (standard) , Dacron or Vectran

MODEL - P/N	SPAN	CHORD	ASPECT	Min. Sup.	Max. Sup.
TPDS-LLT-R7-200	22.3 ft	9.4 ft	2.4 : 1	116 lb (52 kg)	231 lb (105 kg)
TPDS-LLT-R7-220	23.4 ft	9.8 ft	2.4 : 1	127 lb (57 kg)	253 lb (115 kg)
TPDS-LLT-R7-240	24.4 ft	10.3 ft	2.4 : 1	138 lb (62 kg)	275 lb (125 kg)
TPDS-LLT-R7-260	25.3 ft	10.7 ft	2.4 : 1	149 lb (67 kg)	297 lb (135 kg)
TPDS-LLT-R7-280	26.3 ft	11.0 ft	2.4 : 1	160 lb (72 kg)	319 lb (145 kg)
TPDS-LLT-R7-300	27.2 ft	11.4 ft	2.4 : 1	171 lb (77 kg)	341 lb (155 kg)
TPDS-LLT-R7-320	28.1 ft	11.8 ft	2.4 : 1	182 lb (82 kg)	363 lb (165 kg)
TPDS-LLT-R7-340	28.9 ft	12.1 ft	2.4 : 1	193 lb (87 kg)	385 lb (175 kg)
TPDS-LLT-R7-360	29.8 ft	12.4 ft	2.4 : 1	204 lb (92 kg)	407 lb (185 kg)
TPDS-LLT-R7-380	30.5 ft	12.8 ft	2.4 : 1	215 lb (97 kg)	429 lb (195 kg)
TPDS-LLT-R7-400	31.3 ft	13.1 ft	2.4 : 1	226 lb (102 kg)	451 lb (205 kg)
TPDS-LLT-R7-420	32.1 ft	13.4 ft	2.4 : 1	237 lb (107 kg)	473 lb (215 kg)
TPDS-LLT-R7-440	32.8 ft	13.8 ft	2.4 : 1	248 lb (112 kg)	495 lb (225 kg)
TPDS-LLT-R7-460	33.5 ft	14.0 ft	2.4 : 1	259 lb (117 kg)	517 lb (235 kg)

CANOPY FABRIC SPECIFICATIONS

<u>TEST NAME</u>	<u>COMMERCIAL</u>	<u>TEST METHODS</u>
		<u>FEDERAL STANDARD 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.)	■ 47 x 47 Pounds	■ ASTM-D-50351 R Method 5104
1"strip		
ELONGATON (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

Specification	Yarn	Construction	Weave	Widths**	Weight	Thickness	Air Perm	Tear W/F	Break W/F	pH
PIA C 44378	<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>	
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
Type 4	30d	126 X 132	Ripstop	36"/48"/65"	1.20	0.003	0.5-3.0	5/5	45/45	5.5-9.0



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