

TACTICAL PARACHUTE DELIVERY SYSTEMS, Inc.



# TPDS PARACHUTES BROCHURE



TACTICAL PARACHUTE DELIVERY SYSTEMS, Inc.  
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## TPDS CANOPY GUIDELINES

### Abbreviation Guide:

**M**= Main Canopy  
**R**= Reserve Canopy  
**F**= F-111 Material  
**Z**= Zero Porosity Material  
**H**= Hybrid Material  
**07**= 7 cells  
**09**= 9 cells  
**V**= Vectran Lines  
**D**= Dacron Lines  
**S**= Spectra Lines  
**LLT** = Light Load Tactical  
**HLT**= Heavy Load Tactical

### Example:

#### **TPDS-HLT- M-370**

Tactical Parachute Delivery Systems - Heavy Load Tactical - Main - 370 sq. ft.

#### **M-370Z**

**M-360Z** Main - 370 sq.ft. Z-P Material

Main - 360 sq.ft. Z-P Material



**TPDS Canopy Specifications**

• Max Deployment Speed	150 knots thru airspeed
• Max Deployment Altitude Static Line	18,000 ft. MSL
• Min Deployment Altitude Static Line	1500 ft. AGL
• Min Deployment Altitude Free-fall	2000 ft. AGL
• Max Deployment Speed Static Line	130 knots thru airspeed
• Min Deployment Speed Static Line	60 knots
• Max Exit Weight	316 kg./ 697 lbs. (depends on size of canopy and weight of jumper)
• Min Exit Weight	135 lbs./ 60 kg.
• HALO Altitude	30,000 ft. MSL
• HAHO Altitude	25,000 ft. MSL
• Glide Ratio	4 to 1
• Aspect Ratio	2.94:1
• Average Opening Force	4.2 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)
• Pack Volume	500 - 600 cu. in.





• 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 Z -P combination
• Container Fabric	1000 denier Cordura
• Webbing	Mil. Spec. W-4088 or equivalent





# SQUARE PARACHUTES

# Light Load Tactical - Main Parachute 9 CELL - ELLIPTICAL (DS-LLT-M)



## Main Canopy Specifications

### Canopy Class

LLT

### Lines

Dacron

### Fabric

Hybrid  
(TOP SKIN)  
Z-P

(BOTTOM SKIN)  
F-111 /  
PIA-C 44378  
Type IV

### Maximum Weight:

Model	LBS.	KGS.
M-200H	240	109
M-220H	265	120
M-240H	290	132
M-260H	316	143
M-280H	342	155
M-300H	368	167
M-330H	406	184
M-360H	445	202

Also available in Z-P only







## TPDS-LLT-MAIN CANOPIES 9 CELL ELLIPTICAL

		TACTICAL PARACHUTE DELIVERY SYSTEMS, INC.		MAIN CANOPY SPECIFICATIONS				
LINE	FABRIC			SPAN	CHORD	ASPECT	LOAD	WMAX
		PART NUMBER	MODEL	feet	feet	:1	Lbs./ft <sup>2</sup>	Lbs./kgs
DACRON	HY- BRID	TPDS-LLT-M-200	M-200H	28.46	9.68	2.94	1.19	240/109
		TPDS-LLT-M-220	M-220H	29.85	10.16	2.94	1.94	265/120
		TPDS-LLT-M-240	M-240H	31.18	10.61	2.94	1.198	290/132
		TPDS-LLT-M-260	M-260H	32.45	11.04	2.94	1.202	316/143
		TPDS-LLT-M-280	M-280H	33.67	11.45	2.94	1.206	342/155
		TPDS-LLT-M-300	M-300H	34.86	11.86	2.94	1.21	368/167
		TPDS-LLT-M-330	M-330H	36.56	12.44	2.94	1.21	406/184
		TPDS-LLT-M-360	M-360H	38.18	12.99	2.94	1.218	445/202
	ZP	TPDS-LLT-M-200	M-200Z	28.46	9.68	2.94	1.19	240/109
		TPDS-LLT-M-220	M-220Z	29.85	10.16	2.94	1.194	265/120
		TPDS-LLT-M-240	M-240Z	31.18	10.61	2.94	1.198	290/132
		TPDS-LLT-M-260	M-260Z	32.45	11.04	2.94	1.202	316/143
		TPDS-LLT-M-280	M-280Z	33.67	11.46	2.94	1.206	342/155
		TPDS-LLT-M-300	M-300Z	34.86	11.86	2.94	1.21	368/167
		TPDS-LLT-M-330	M-330Z	36.56	12.44	2.94	1.214	406/184
		TPDS-LLT-M-360	M-360Z	38.18	12.99	2.94	1.218	445/202



# HEAVY LOAD TACTICAL-MAIN PARACHUTE 9 CELL ELLIPTICAL (TPDS-HLT-M)



## Main Canopy Specifications

Canopy Class  
HLT

Lines  
Vectran

Fabric

Z-P

## Maximum Weight:

<u>Model</u>	<u>LBS.</u>	<u>KGS.</u>
M-300Z	443	201
M-330Z	491	223
M-350Z	541	245
M-370Z	593	269
M-390Z	646	293
M-410Z	697	316

Also available in a Hybrid- (Z-P Top / F-111 Bottom)





## TPDS-HLT-MAIN CANOPIES 9 CELL ELLIPTICAL

		TACTICAL PARACHUTE DELIVERY SYSTEMS, INC.		MAIN CANOPY SPECIFICATIONS				
LINE	FABRIC			SPAN	CHORD	ASPECT	LOAD	WMAX
		PART NUMBER	MODEL	feet	feet	:1	Lbs./ft <sup>2</sup>	Lbs./kgs
VECTRAN	HYBRID	TPDS-HLT-M-300	M-300H	30.5	10.82	2.82	1.475	443/201
		TPDS-HLT-M-330	M-330H	31.93	11.33	2.82	1.51	491/223
		TPDS-HLT-M-350	M-350H	33.17	11.70	2.82	1.545	541/245
		TPDS-HLT-M-370	M-370H	33.81	11.99	2.82	1.58	503/269
		TPDS-HLT-M-390	M-390H	34.62	12.31	2.82	1.615	646/293
		TPDS-HLT-M-410	M-410H	35.5	12.59	2.82	1.62	697/316
	ZP	TPDS-HLT-M-300	M-300Z	30.5	10.82	2.82	1.475	443/201
		TPDS-HLT-M-330	M-330Z	31.93	11.33	2.82	1.51	491/223
		TPDS-HLT-M-350	M-350Z	33.17	11.70	2.82	1.545	541/245
		TPDS-HLT-M-370	M-370Z	33.81	11.99	2.82	1.58	503/269
		TPDS-HLT-M-400	M-400Z	34.62	12.31	2.82	1.615	646/293
		TPDS-HLT-M-410	M-410Z	35.5	12.59	2.82	1.62	697/316



# HIGH GLIDE - MAIN PARACHUTE 9 CELL ELLIPTICAL (TPDS-HG-M)



## Main Canopy Specifications

Canopy Class  
HG

Lines  
Vectran

Glide Ratio – 1:6  
(When properly wing loaded)

Fabric  
Z-P

## Maximum Weight:

<u>Model</u>	<u>LBS.</u>	<u>KGS.</u>
M-200Z	240	109
M-220Z	265	120
M-240Z	290	132
M-260Z	316	143
M-280Z	342	155
M-300Z	368	167
M-330Z	406	184
M-360Z	445	202

Also available in a Hybrid- (Z-P Top / F-111 Bottom)





## TPDS-HG-MAIN CANOPIES 9 CELL ELLIPTICAL

		TACTICAL PARACHUTE DELIVERY SYSTEMS, INC.		MAIN CANOPY SPECIFICATIONS				
LINE	FABRIC			SPAN	CHORD	ASPECT	LOAD	WMAX
		PART NUMBER	MODEL	feet	feet	:1	Lbs./ft <sup>2</sup>	Lbs./kgs
VEC- TRAN	ZP	TPDS-HG-M-200	M-200Z	28.46	9.68	2.94	1.2	240/109
		TPDS-HG-M-220	M-220Z	29.85	10.16	2.94	1.205	265/120
		TPDS-HG-M-240	M-240Z	31.18	10.61	2.94	1.21	290/132
		TPDS-HG-M-260	M-260Z	32.45	11.04	2.94	1.215	316/143
		TPDS-HG-M-280	M-280Z	33.67	11.46	2.94	1.22	342/155
		TPDS-HG-M-300	M-300Z	34.86	11.86	2.94	1.225	368/167
		TPDS-HG-M-330	M-330Z	36.56	12.44	2.94	1.23	406/184
		TPDS-HG-M-360	M-360Z	38.18	12.99	2.94	1.235	445/202



# LIGHT LOAD TACTICAL-RESERVE PARACHUTE 7 CELL RECTANGLE (TPDS-LLT-R7)



### Maximum Weight:

<u>Model</u>	<u>LBS.</u>	<u>KGS.</u>
R7-220	262	119
R7-240	283	128
R7-260	304	138
R7-280	325	148
R7-300	345	156
R7-320	365	166
R7-340	384	174
R7-360	403	183
R7-380	422	191

Canopy Class  
LLT

Fabric  
F-111 /  
PIA-C-44378  
Type IV

Lines  
Spectra





## TPDS-LLT-RESERVE CANOPIES 7 CELLS RECTANGLE

		TACTICAL PARACHUTE DELIVERY SYSTEMS, INC.		RESERVE CANOPY SPECIFICATIONS				
LINE	FABRIC			SPAN	CHORD	ASPECT	LOAD	WMAX
		PART NUMBER	MODEL	feet	feet	:1	Lbs./ft <sup>2</sup>	Lbs./kgs
<b>Spectra</b>	<b>F-111</b>	TPDS-LLT-R7-220	R7-220	23.18	9.89	2.345	1.19	262/119
		TPDS-LLT-R7-240	R7-240	24.21	10.33	2.345	1.18	283/129
		TPDS-LLT-R7-260	R7-260	25.2	10.75	2.345	1.17	304/138
		TPDS-LLT-R7-280	R7-280	26.15	11.15	2.345	1.16	325/148
		TPDS-LLT-R7-300	R7-300	27.07	11.54	2.345	1.15	345/156
		TPDS-LLT-R7-320	R7-320	27.96	11.92	2.345	1.14	365/166
		TPDS-LLT-R7-340	R7-340	28.82	12.29	2.345	1.13	384/174
		TPDS-LLT-R7-360	R7-360	29.65	12.65	2.345	1.12	403/183
		TPDS-LLT-R7-380	R7-380	30.47	12.99	2.345	1.11	422/191



# LIGHT LOAD TACTICAL-RESERVE PARACHUTE 9 CELL RECTANGLE (TPDS-LLT-R9)



**Maximum Weight:**

<b>Model</b>	<b>LBS.</b>	<b>KGS.</b>
R9-220	312	142
R9-240	340	154
R9-260	368	167
R9-280	396	180
R9-300	424	192
R9-320	451	205
R9-340	479	217
R9-360	506	230
R9-380	534	242
R9-400	561	254
R9-420	588	267

**Canopy Class**  
**LLT**

**Fabric**  
F-111 /  
PIA-C 44378  
Type IV

**Lines**  
Spectra





## TPDS-LLT-RESERVE CANOPIES 9 CELLS RECTANGLE

		TACTICAL PARACHUTE DELIVERY SYSTEMS, INC.		RESERVE CANOPY SPECIFICATIONS				
LINES	FABRIC			SPAN	CHORD	ASPECT	LOAD	WMAX
		PART NUMBER	MODEL	feet	feet	:1	Lbs./ft <sup>2</sup>	Lbs./kgs
Spectra	F-111	TPDS-LLT-R9-220	R9-220	25.69	8.56	3	1.42	312/142
		TPDS-LLT-R9-240	R9-240	26.83	8.94	3	1.418	240/154
		TPDS-LLT-R9-260	R9-260	27.93	9.31	3	1.416	368/167
		TPDS-LLT-R9-280	R9-280	28.98	9.66	3	1.414	396/180
		TPDS-LLT-R9-300	R9-300	30	10	3	1.412	424/192
		TPDS-LLT-R9-320	R9-320	30.98	10.33	3	1.41	451/295
		TPDS-LLT-R9-340	R9-340	31.94	10.65	3	1.408	479/217
		TPDS-LLT-R9-360	R9-360	32.86	10.95	3	1.406	506/230
		TPDS-LLT-R9-380	R9-380	33.76	11.25	3	1.404	534/242
		TPDS-LLT-R9-400	R9-400	34.64	11.55	3	1.402	561/254
		TPDS-LLT-R9-420	R9-420	35.5	11.83	3	1.4	588/267



# **HEAVY LOAD TACTICAL-RESERVE PARACHUTE**

## **9 CELL RECTANGLE (TPDS-HLT-R9)**



### **Maximum Weight:**

<b>Model</b>	<b>LBS.</b>	<b>KGS.</b>
R9-300	424	192
R9-320	451	205
R9-340	479	217
R9-360	506	230
R9-380	534	242
R9-400	561	254
R9-420	588	267

**Canopy Class**  
**HLT**

**Fabric**  
F-111 /  
PIA-C 44378  
Type IV

**Lines**  
Spectra





## TPDS-HLT-RESERVE CANOPIES 9 CELLS RECTANGLE

		TACTICAL PARACHUTE DELIVERY SYSTEMS, INC.		RESERVE CANOPY SPECIFICATIONS				
LINE	FABRIC			SPAN	CHORD	ASPECT	LOAD	WMAX
		PART NUMBER	MODEL	feet	feet	:1	Lbs./ft <sup>2</sup>	Lbs./kgs
Spectra	F-111	TPDS-HLT-R9-300	R9-300	30	10	3	1.412	424/192
		TPDS-HLT-R9-320	R9-320	30.98	10.33	3	1.41	451/295
		TPDS-HLT-R9-340	R9-340	31.94	10.65	3	1.408	479/217
		TPDS-HLT-R9-360	R9-360	32.86	10.95	3	1.406	506/230
		TPDS-HLT-R9-380	R9-380	33.76	11.25	3	1.404	534/242
		TPDS-HLT-R9-400	R9-400	34.64	11.55	3	1.402	561/254
		TPDS-HLT-R9-420	R9-420	35.5	11.83	3	1.4	588/267



# **TARGET - ACCURACY-MAIN PARACHUTE** **7 CELL RECTANGLE (TPDS-AC-M)**



Canopy Class  
**ACCURACY**

Fabric  
F-111 /  
PIA-C 44378  
Type IV

Lines  
Dacron  
#525



**Target Canopy Specifications**  
**Maximum Recommended**  
**Suspended Weight for Accuracy**

<u>Model</u>	<u>LBS.</u>	<u>KGS.</u>
T-240	180	81.64
T-260	200	90.72
T-280	220	99.80
T-300	230	104.32

<b><u>Target Canopy Specifications</u></b>			
<u>Model</u>	<u>Chord (ft.)</u>	<u>Span (ft.)</u>	<u>Sq. Ft.</u>
T-240	11.68	21.63	252.64
T-260	12.16	23.47	285.40
T-280	12.62	24.34	307.17
T-300	13.08	25.19	329.49

# **MILITARY SPORT MAIN (MSM)-MAIN PARACHUTE** **9 CELL ELLIPTICAL (TPDS-MSM-E)**



## **MAXIMUM WEIGHT**

<b><u>MODEL</u></b>	<b><u>LBS.</u></b>	<b><u>KGS.</u></b>
MSM-E 108	173	78
MSM-E 120	192	87
MSM-E 135	216	98
MSM-E 150	240	109
MSM-E 170	272	123
MSM-E 190	300	136
MSM-E 210	300	136
MSM-E 235	300	136

Fabric  
Z-P

Lines  
Spectra



## TPDS-TPDS- MSM-E-MAIN CANOPIES 9 CELL ELLIPTICAL

		TACTICAL PARACHUTE DELIVERY SYSTEMS, INC.		RESERVE CANOPY SPECIFICATIONS				
LINE	FABRIC			SPAN	CHORD	ASPECT	LOAD	WMAX
		PART NUMBER	MODEL	feet	feet	:1	Lbs./ft <sup>2</sup>	Lbs./kgs
Spectra	ZP	TPDS-MSM-E 108	MSM-E 108	16.23	6.50	2.5	1.60	173/78.5
		TPDS-MSM-E 120	MSM-E 120	17.11	6.86	2.5	1.60	192/87.1
		TPDS-MSM-E 135	MSM-E 135	18.14	7.27	2.5	1.60	216/98.0
		TPDS-MSM-E 150	MSM-E 150	19.13	7.67	2.5	1.60	240/108.9
		TPDS-MSM-E 170	MSM-E 170	20.36	8.16	2.5	1.60	272/123.4
		TPDS-MSM-E 190	MSM-E 190	21.53	8.63	2.5	1.60	300/136.1
		TPDS-MSM-E 210	MSM-E 210	22.63	9.07	2.5	1.43	300/136.1
		TPDS-MSM-E 235	MSM-E 235	23.94	9.60	2.5	1.28	300/136.1

# MILITARY SPORT MAIN (MSM)-MAIN PARACHUTE 7 CELL RECTANGLE (MSM-SQ-7)



## MAXIMUM WEIGHT

<u>MODEL</u>	<u>LBS.</u>	<u>KGS.</u>
MSM-SQ-7-120	122	55
MSM-SQ-7-135	138	63
MSM-SQ-7-150	153	70
MSM-SQ-7-181	199	90
MSM-SQ-7-218	219	99
MSM-SQ-7-249	240	109
MSM-SQ-7-282	270	122

Fabric  
F-111 /  
PIA-C 44378  
Type IV

Lines  
Spectra  
or  
Dacron





## TPDS-MSM-SQ-7-MAIN CANOPIES 7 CELL RECTANGLE

		TACTICAL PARACHUTE DELIVERY SYSTEMS, INC.		MAIN CANOPY SPECIFICATIONS				
LINE	FABRIC			SPAN	CHORD	ASPECT	LOAD	WMAX
		PART NUMBER	MODEL	feet	feet	:1	Lbs./ft <sup>2</sup>	Lbs./kgs
Spectra or Dacron	F-111	TPDS-MSM-SQ-7-120	MSM-SQ-7-120	16.4	7.29	2.26	1.02	123/55.8
		TPDS-MSM-SQ-7-135	MSM-SQ-7-135	17.4	7.73	2.26	1.02	138/62.6
		TPDS-MSM-SQ-7-150	MSM-SQ-7-150	18.3	8.15	2.26	1.02	153/69.4
		TPDS-MSM-SQ-7-181	MSM-SQ-7-181	20.1	8.95	2.26	1.02	185/83.9
		TPDS-MSM-SQ-7-218	MSM-SQ-7-218	22.1	9.82	2.26	1.02	223/101.2
		TPDS-MSM-SQ-7-249	MSM-SQ-7-249	23.6	10.5	2.26	1.02	254/115.2
		TPDS-MSM-SQ-7-282	MSM-SQ-7-282	25.1	11.17	2.26	1.02	288/130.6



# **MILITARY SPORT RESERVE PARACHUTE** **7 CELL RECTANGLE (TPDS-MSR-R)**



## **MAXIMUM WEIGHT**

<b><u>MODEL</u></b>	<b><u>LBS.</u></b>	<b><u>KGS.</u></b>
MSR 108	220	100
MSR 118	220	100
MSR 128	220	100
MSR 138	254	115
MSR 148	254	115
MSR 168	254	115
MSR 188	254	115
MSR 208	254	115
MSR 228	264	120
MSR 248	284	129
MSR 268	300	136
MSR 288	317	143

**Fabric**  
F-111 /  
PIA-C 44378  
Type IV

**Lines**  
Spectra



## TPDS-MSR-RESERVE CANOPIES 7 CELL RECTANGLE

		TACTICAL PARACHUTE DELIVERY SYSTEMS, INC.		RESERVE CANOPY SPECIFICATIONS				
LINE	FABRIC			SPAN	CHORD	ASPECT	LOAD	WMAX
		PART NUMBER	MODEL	feet	feet	:1	Lbs./ft <sup>2</sup>	Lbs./kgs
Spectra	F-111	TPDS-MSR-R-108	R-108	15.37	6.95	2.21	2.04	220/99.8
		TPDS-MSR-R-118	R-118	16.07	7.27	2.21	1.86	220/99.8
		TPDS-MSR-R-128	R-128	16.73	7.57	2.21	1.72	220/99.8
		TPDS-MSR-R-138	R-138	17.37	7.86	2.21	1.84	254/115.2
		TPDS-MSR-R-148	R-148	17.99	8.14	2.21	1.72	254/115.2
		TPDS-MSR-R-168	R-168	19.17	8.67	2.21	1.51	254/115.2
		TPDS-MSR-R-188	R-188	20.28	9.18	2.21	1.35	254/115.2
		TPDS-MSR-R-208	R-208	21.33	9.65	2.21	1.22	254/115.2
		TPDS-MSR-R-228	R-228	22.33	10.11	2.21	1.16	264/119.7
		TPDS-MSR-R-248	R-248	23.29	10.54	2.21	1.15	284/128.8
		TPDS-MSR-R-268	R-268	24.96	10.96	2.21	1.12	300/136.0
		TPDS-MSR-R-288	R-288	25.10	11.36	2.21	1.1	317/143.8





# INVASION II

# **INVASION II**

## **Main Parachute - Non-Steerable**

### **28 Gores**





### **Performance Data**

	<b><u>INV-400</u></b>	<b><u>INV-401</u></b>
Suspended Weight Range:	100-360 lbs. (45-163 kg.)	200-425 lbs. (91-193 kg.)
Rate of Descent:	15 fps @ 210 lbs. 4 mps @ 91 kg.	13 fps @ 225 lbs. to 15 fps @ 425 lbs. 4 mps @ 102 kg. to 4.6 mps @ 193 kg.
Forward Speed:	0 mph (0 km/h)	0 mph (0 km/h)
Stability Range:	<10 angle of oscillation	<10 angle of oscillation
360° Turn:	7-8 seconds	7-8 seconds
Opening Time:	2.6 seconds at 150 kts.	2.6 seconds at 150 kts.

### **Physical Specifications**

	<b><u>INV-400</u></b>	<b><u>INV-401</u></b>
Canopy Weight:	16 lbs. (7.26 kg.)	19.2 lbs. (8.7 kg.)
Modification:	OCV (Oscillation Control Vent)	OCV (Oscillation Control Vent)
Anti-Inversion Netting:	Yes	Yes
Fabric:	PIA-C-44378 Type IV	PIA-C-44378 Type IV
Colors:	OD Green or Foliage Green	OD Green or Foliage Green
Shape:	Parabolic	Parabolic.
Diameter:	35 feet (10 m)	42 feet (13 m)
Number of Gores:	28	28
Suspension Line:	525 lbs. Polyester Braid	525 lbs. Polyester Braid
Suspension Line Length:	574.0 cm. @ 2kg./5 lbs. Tension	672.0 cm. @ 2kg./5 lbs. Tension
Suspension Line Connector Links:	MS22002-1	MS-22002-1
Connector Tensile Strength:	3000 lbs. / 1360 kg.	3000 lbs. / 1360 kg.

# INVASION II

## Main Parachute - Non-Steerable

### 30 Gores







### Performance Data

	<u>INV-404</u>	<u>INV-405</u>
Suspended Weight Range:	100-360 lbs. (45-163 kg.)	200-425 lbs. (91-193 kg.)
Rate of Descent:	15 fps @ 210 lbs. 4 mps @ 91 kg.	13 fps @ 225 lbs. to 15 fps @ 425 lbs. 4 mps @ 102 kg. to 4.6 mps @ 193 kg.
Forward Speed:	0 mph (0 km/h)	0 mph (0 km/h)
Stability Range:	<10 angle of oscillation	<10 angle of oscillation
360° Turn:	7-8 seconds	7-8 seconds
Opening Time:	2.6 seconds at 150 kts.	2.6 seconds at 150 kts.

### Physical Specifications

	<u>INV-404</u>	<u>INV-405</u>
Canopy Weight:	16 lbs. (7.26 kg.)	19.2 lbs. (8.7 kg.)
Modification:	OCV (Oscillation Control Vent)	OCV (Oscillation Control Vent)
Anti-Inversion Netting:	Yes	Yes
Fabric:	PIA-C-44378 Type IV	PIA-C-44378 Type IV
Colors:	OD Green or Foliage Green	OD Green or Foliage Green
Shape:	Parabolic	Parabolic
Diameter:	35 feet (10 m)	42 feet (13 m)
Number of Gores:	30	30
Suspension Line:	525 lbs. Polyester Braid	525 lbs. Polyester Braid
Suspension Line Length:	574.0 cm. @ 2kg./5 lbs. Tension	672.0 cm. @ 2kg./5 lbs. Tension
Suspension Line Connector Links:	MS22002-1	MS-22002-1
Connector Tensile Strength:	3000 lbs. / 1360 kg.	3000 lbs. / 1360 kg.

# INVASION II

## Main Parachute - Steerable

### 28 Gores





### Performance Data

**INV-402**  
 Suspended Weight Range: 100-360 lbs (45-163 kg.)  
 Rate of Descent: 15 fps @ 210 lbs  
 4 mps @ 91 kg.  
 Forward Speed: 8 –10 mph (13-16 km/h)  
 Stability Range: <10° angle of oscillation  
 360° Turn: 7-8 seconds  
 Opening Time: 2.6 seconds at 150 kts.

### INV-403

200-425 lbs (91-193 kg.)  
 13 fps @ 225 lbs. to 15 fps @ 425 lbs.  
 4 mps @ 102 kg. to 4.6 mps @ 193 kg.  
 8 –10 mph (13-16 km/h)  
 <10° angle of oscillation  
 7-8 seconds  
 2.6 seconds at 150 kts.

### Physical Specifications

**INV-402**  
 Canopy Weight: 16 lbs. (7.26 kg.)  
 Modification: 7-TU  
 Anti-Inversion Netting: Yes  
 Fabric: PIA-C-44378 Type IV  
 Colors: OD Green or Foliage Green  
 Shape: Parabolic  
 Diameter: 35 feet (10 m)  
 Number of Gores: 28  
 Suspension Line: 525 lbs. Polyester Braid  
 Suspension Line Length: 574.0 cm.@ 2kg./5 lbs. Tension  
 Suspension Line Connector Links: MS22002-1  
 Connector Tensile Strength: 3000 lbs. / 1360 kg.

**INV-403**  
 20.6 lbs. (9.34 kg.)  
 7-TU  
 Yes  
 PIA-C-44378 Type IV  
 OD Green or Foliage Green  
 Parabolic  
 42 feet (13 m)  
 28  
 525 lbs. Polyester Braid  
 672.0 cm.@ 2kg./5 lbs. Tension  
 MS-22002-1  
 3000 lbs. / 1360 kg.

# INVASION II

## Main Parachute - Steerable

### 30 Gores





**Performance Data**

Suspended Weight Range:	100-360 lbs (45-163 kg.)	200-425 lbs (91-193 kg.)
Rate of Descent:	15 fps @ 210 lbs 4 mps @ 91 kg.	13 fps @ 225 lbs. to 15 fps @ 425 lbs. 4 mps @ 102 kg. to 4.6 mps @ 193 kg.
Forward Speed:	8 –10 mph (13-16 km/h)	8 –10 mph (13-16 km/h)
Stability Range:	<10° angle of oscillation	<10° angle of oscillation
360° Turn:	7-8 seconds	7-8 seconds
Opening Time:	2.6 seconds at 150 kts.	2.6 seconds at 150 kts.

**Physical Specifications**

	<b><u>INV-406</u></b>	<b><u>INV-407</u></b>
Canopy Weight:	16 lbs. (7.26 kg.)	20.6 lbs. (9.34 kg.)
Modification:	7-TU	7-TU
Anti-Inversion Netting:	Yes	Yes
Fabric:	PIA-C-44378 Type IV	PIA-C-44378 Type IV
Colors:	OD Green or Foliage Green	OD Green or Foliage Green
Shape:	Parabolic	Parabolic
Diameter:	35 feet (10 m)	42 feet (13 m)
Number of Gores:	30	30
Suspension Line:	525 lbs. Polyester Braid	525 lbs. Polyester Braid
Suspension Line Length:	574.0 cm.@ 2kg./5 lbs. Tension	672.0 cm.@ 2kg./5 lbs. Tension
Suspension Line Connector Links:	MS22002-1	MS-22002-1
Connector Tensile Strength:	3000 lbs. / 1360 kg.	3000 lbs. / 1360 kg.

**INVASION II  
Reserve Parachute  
(INV-300)**





**Physical Specifications**

Shape: ..... Conical  
 Diameter: ..... 28 feet (8.5 m)  
 Canopy Weight:..... 9.9 lbs. (4.5 kg.)  
 Number of Gores: ..... 24  
 Panels per Gore: ..... 3  
 Canopy Cloth: ..... PIA-C-44378 Type IV  
 Suspension Line: .....525 lbs. Braided Polyester  
 Suspension Line Length: .....555 cm. @ 2 kg./5 lbs. Tension  
 Suspension Line Connectors: ..... MS22002-1  
 Connector Tensile Strength: .....3000 lbs. (1360 kg.)  
 Maximum Suspended Weight: .....360 lbs. (163 kg.)

**Colors:**

**Standard** - White  
**Optional** - OD Green

**Ripcord**

The Ripcord consists of a stainless steel grip and a flexible steel cable to which steel ripcord pins are swaged. The ripcord used with the **INVASION II Reserve** has two ripcord pins 1 1/4-inch in length **OR** one pin for the single pin option.

Grip material .....5/16” Stainless Steel Tubing  
 Grip shape ..... Cloverleaf  
 Cable material ..... Flexible Steel  
 Number of pins ..... 1 or 2









# CARGO PARACHUTES



# TPDS G-10 CARGO





## **TPDS G-10** **CARGO**

Diameter Size	42'
Number of Gores	28
Fabric	PIA-C-44378 Type IV 0.5-3.0 cfm.
Suspension Line	Dacron Braid
Line Length	22.33' (6.8 m.)
Canopy Shape	Parabolic
Packed Weight Complete	25 lbs. (11.34 kg.)
Packed Volume	3360 cu. in.
Carrying Capacity	800 lbs. (363 kg.)
Rate of Descent	27 fps. w/800 lbs. ~ 27 fps. w/ 363 kg.
Opening Time	2.6 sec. @150 kts.



# TPDS G-12 CARGO





## **TPDS G-12** **CARGO**

Diameter Size	64'
Number of Gores	48
Fabric	PIA-C-44378 Type IV 0.5-3.0 cfm.
Suspension Line	Dacron Braid
Line Length	36' (11 m.)
Canopy Shape	Parabolic
Packed Weight Complete	45 lbs. (20 kg.)
Packed Volume	6048 cu. in.
Carrying Capacity	2500 lbs. (1134 kg.)
Rate of Descent	21 fps. w/2000 lbs. (21 fps. w/ 907 kg.)
Opening Time	6 sec. @150 kts.



# TPDS G-11 CARGO





## **TPDS G-11** **CARGO**

Diameter Size	98'
Number of Gores	72
Fabric	PIA-C-44378 Type IV 0.5-3.0 cfm.
Suspension Line	Dacron Braid
Line Length	36' (11 m.)
Canopy Shape	Parabolic
Packed Weight Complete	90 lbs. (41 kg.)
Packed Volume	10,296 cu. in.
Carrying Capacity	5000 lbs. (2268 kg.)
Rate of Descent	21 fps. w/5000 lbs. (21 fps. w/ 2268 kg.)
Opening Time	6 sec. @ 150 kts.



**TPDS**

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