

TACTICAL PARACHUTE DELIVERY SYSTEMS, Inc.



SPORT CANOPY **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



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

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

Target Canopy Specifications

<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

<u>MODEL</u>	<u>LBS.</u>	<u>KGS.</u>
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-MSM-E 9 CELL ELLIPTICAL

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 ²	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 ²	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 MAIN (MSM)-MAIN PARACHUTE 9 CELL RECTANGLE (MSM-SQ-9)



MAXIMUM WEIGHT

<u>MODEL</u>	<u>LBS.</u>	<u>KGS.</u>
MSM-SQ-9 120	122	55
MSM-SQ-9 135	138	63
MSM-SQ-9 150	153	70
MSM-SQ-9 175	179	81
MSM-SQ-9 195	199	90
MSM-SQ-9 215	219	99
MSM-SQ-9 235	240	109
MSM-SQ-9 265	270	122
MSM-SQ-9 300	306	139

Fabric
F-111 /
PIA-C 44378
Type IV

Lines
Spectra
or
Dacron



TPDS-MSM-SQ-9-MAIN CANOPIES 9 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 ²	Lbs./kgs
Spectra or Dacron	F-111	TPDS-MSM-SQ-9-120	MSM-SQ-9-120	17.6	6.82	2.58	1.02	122/55.3
		TPDS-MSM-SQ-9-135	MSM-SQ-9-135	18.7	7.23	2.58	1.02	138/62.6
		TPDS-MSM-SQ-9-150	MSM-SQ-9-150	19.7	7.62	2.58	1.02	153/69.4
		TPDS-MSM-SQ-9-175	MSM-SQ-9-170	21.3	8.23	2.58	1.02	179/81.2
		TPDS-MSM-SQ-9-195	MSM-SQ-9-195	22.4	8.69	2.58	1.02	199/90.3
		TPDS-MSM-SQ-9-215	MSM-SQ-9-215	23.6	9.13	2.58	1.02	219.99.3
		TPDS-MSM-SQ-9-235	MSM-SQ-9-235	24.6	9.54	2.58	1.02	240/108.9
		TPDS-MSM-SQ-9-265	MSM-SQ-9-265	26.2	10.13	2.58	1.02	270/122.5
		TPDS-MSM-SQ-9-300	MSM-SQ-9-300	27.8	10.78	2.58	1.02	306/138.8





TPDS



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