

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**

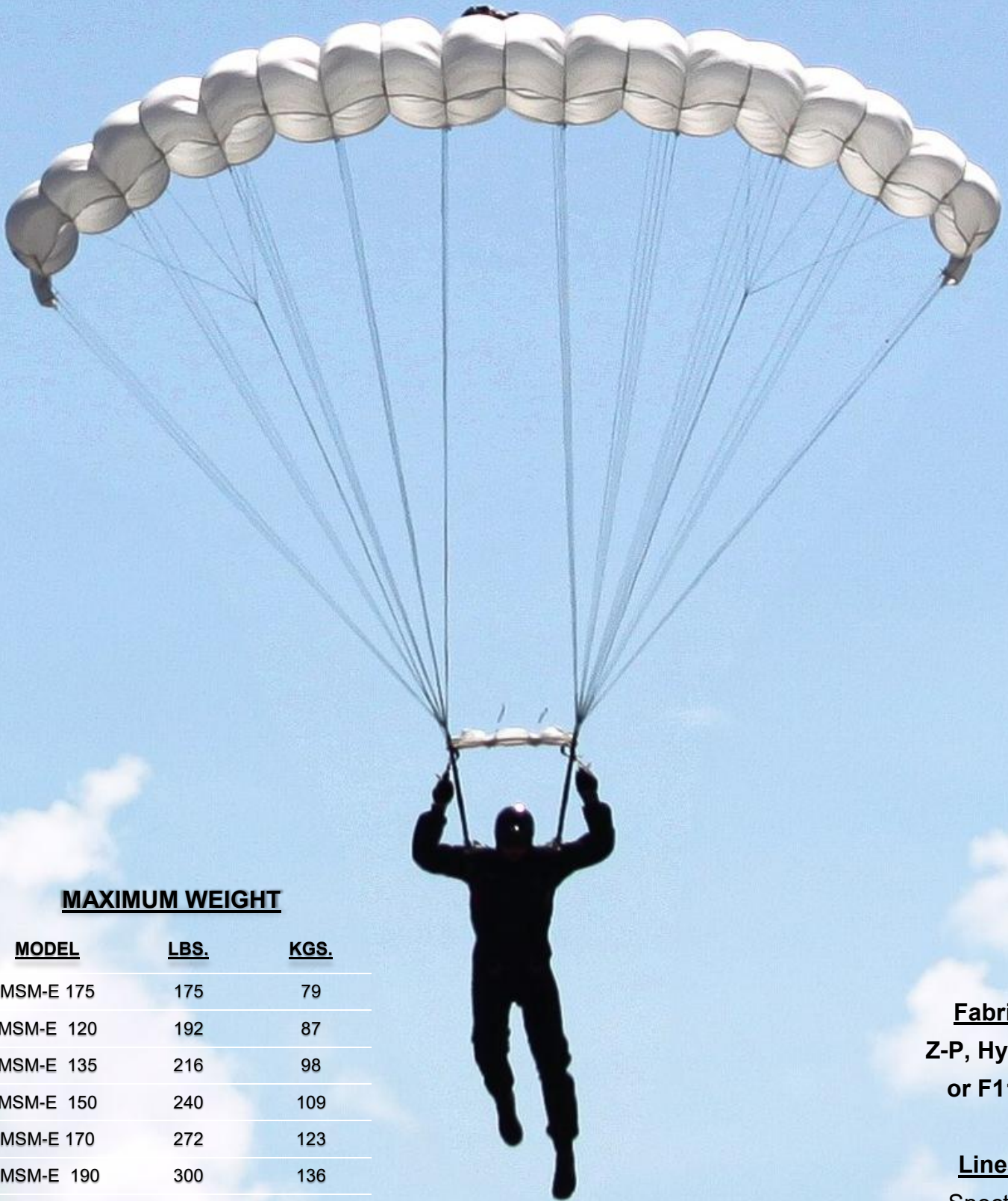
<u>Model</u>	<u>LBS.</u>	<u>KGS.</u>
T-240	180	81.64
T-260	200	90.72
T-280	220	99.80
T-300	230	104.32

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 175	175	79
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, Hybrid
or F111

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	18.12	6.5	2.80	1.60	175/79
	or	TPDS-MSM-E 120	MSM-E 120	18.91	6.75	2.80	1.60	192/87
	Hybrid	TPDS-MSM-E 135	MSM-E 135	19.73	7.03	2.81	1.60	216/98
	or	TPDS-MSM-E 150	MSM-E 150	20.58	7.33	2.81	1.60	240/109
	F111	TPDS-MSM-E 170	MSM-E 170	22.39	8.00	2.81	1.60	272/123
		TPDS-MSM-E 190	MSM-E 190	23.36	8.29	2.82	1.60	300/136
		TPDS-MSM-E 210	MSM-E 210	24.36	8.64	2.82	1.60	300/136
		TPDS-MSM-E 230	MSM-E 230	26.5	9.38	2.82	1.60	300/136
		TPDS-MSM-E 260	MSM-E 260	27.63	9.78	2.83	1.60	300/136
		TPDS-MSM-E 280	MSM-E 280	28.82	10.19	2.83	1.60	300/136
		TPDS-MSM-E 300	MSM-E 300	30.05	10.62	2.83	1.60	300/136

MILITARY SPORT MAIN (MSM)-MAIN PARACHUTE 7 CELL SQUARE (MSM-SQ-7)



MAXIMUM WEIGHT

<u>MODEL</u>	<u>LBS.</u>	<u>KGS.</u>
MSM-SQ-7-120	192	87
MSM-SQ-7-135	216	98
MSM-SQ-7-150	240	109
MSM-SQ-7-170	255	115
MSM-SQ-7-190	266	120
MSM-SQ-7-210	273	124
MSM-SQ-7-230	300	136

Fabric
ZP, F-111
or Hybrid
PIA-C 44378
Type IV

Lines
Spectra
or
Dacron



TPDS-MSM-SQ-7-MAIN CANOPIES 7 CELL SQUARE

		TACTICAL PARACHUTE DELIVERY SYSTEMS, INC.		MAIN CANOPY SPECIFICATIONS				
				SPAN	CHORD	ASPECT	LOAD	WMAX
LINE	FABRIC	PART NUMBER	MODEL	feet	feet	:1	Lbs./ft ²	Lbs./kgs
Spectra or Dacron	ZP	TPDS-MSM-SQ-7-105	MSM-SQ-7-105	15.97	7.32	2.18	1.02	175/79
	Or	TPDS-MSM-SQ-7-120	MSM-SQ-7-120	16.84	7.71	2.18	1.02	192/87
	F111	TPDS-MSM-SQ-7-135	MSM-SQ-7-135	17.76	8.12	2.19	1.02	216/98
	Or	TPDS-MSM-SQ-7-150	MSM-SQ-7-150	18.72	8.55	2.19	1.02	240/109
	Hybrid	TPDS-MSM-SQ-7-170	MSM-SQ-7-170	19.72	9.00	2.19	1.02	255/115
		TPDS-MSM-SQ-7-190	MSM-SQ-7-190	20.78	9.47	2.19	1.02	266/120
		TPDS-MSM-SQ-7-210	MSM-SQ-7-210	21.89	9.97	2.19	1.02	273/124
		TPDS-MSM-SQ-7-230	MSM-SQ-7-230	32.06	10.49	2.19	1.02	300/136
		TPDS-MSM-SQ-7-250	MSM-SQ-7-250	24.29	11.04	2.20	1.02	300/136
		TPDS-MSM-SQ-7-270	MSM-SQ-7-270	25.04	11.38	2.20	1.02	300/136
		TPDS-MSM-SQ-7-290	MSM-SQ-7-290	25.80	11.72	2.20	1.02	300/136
		TPDS-MSM-SQ-7-310	MSM-SQ-7-310	26.60	12.07	2.20	1.02	300/136
		TPDS-MSM-SQ-7-330	MSM-SQ-7-330	27.41	12.44	2.20	1.02	300/136

MILITARY SPORT MAIN (MSM)-MAIN PARACHUTE 9 CELL SQUARE (MSM-SQ-9)



MAXIMUM WEIGHT

<u>MODEL</u>	<u>LBS.</u>	<u>KGS.</u>
MSM-SQ-9 120	192	87
MSM-SQ-9 135	216	98
MSM-SQ-9 150	240	109
MSM-SQ-9 170	272	123
MSM-SQ-9 190	300	136
MSM-SQ-9 210	300	136
MSM-SQ-9 230	300	136
MSM-SQ-9 250	300	136
MSM-SQ-9 270	300	136

Fabric
ZP, F-111
or Hybrid
PIA-C 44378
Type IV

Lines
Spectra
or
Dacron



TPDS-MSM-SQ-9-MAIN CANOPIES 9 CELL SQUARE

		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	ZP	TPDS-MSM-SQ-9-105	MSM-SQ-9-105	16.70	6.60	2.53	1.02	175/79
	or	TPDS-MSM-SQ-9-120	MSM-SQ-9-120	18.01	7.09	2.54	1.02	192/87
	F-111	TPDS-MSM-SQ-9-135	MSM-SQ-9-135	19.00	7.50	2.54	1.02	216/98
	or	TPDS-MSM-SQ-9-150	MSM-SQ-9-150	20.00	7.87	2.55	1.02	240/109
	Hybrid	TPDS-MSM-SQ-9-170	MSM-SQ-9-170	21.37	8.40	2.55	1.02	272/123
		TPDS-MSM-SQ-9-190	MSM-SQ-9-190	22.30	8.73	2.55	1.02	300/136
		TPDS-MSM-SQ-9-210	MSM-SQ-9-210	23.50	9.19	2.56	1.02	300/136
		TPDS-MSM-SQ-9-230	MSM-SQ-9-230	24.76	9.67	2.56	1.02	300/136
		TPDS-MSM-SQ-9-250	MSM-SQ-9-250	25.55	10.00	2.55	1.02	300/136
		TPDS-MSM-SQ-9-270	MSM-SQ-9-270	26.65	10.40	2.56	1.02	300/136
		TPDS-MSM-SQ-9-290	MSM-SQ-9-290	27.50	10.72	2.56	1.02	300/136
		TPDS-MSM-SQ-9-310	MSM-SQ-9-310	28.69	11.18	2.57	1.02	300/136
		TPDS-MSM-SQ-9-330	MSM-SQ-9-330	29.60	11.53	2.57	1.02	300/136



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