

## MILITARY SILHOUETTE

### MS-Series Main Canopy

The Military Silhouette (MS) Series is a medium aspect ratio, moderately tapered, nine (9) cell tactical main canopy offering consistent openings, exceptional stability, easy maneuverability with an increase in offset capability beyond that of the TM seven (7) cell series; available in the M1, M2, M3, or M4 configurations.

The MS-Series M1/M2 models are currently used by Special Mission Units worldwide. Praised for their overall performance from opening to landing; the M1/M2 maintain the capability of landing in tight areas using braked approaches. Constructed in a hybrid design with 1.1 oz coated zero-porosity ripstop nylon on the top surface and 1.1 oz 0-3 cfm nylon ripstop for the remainder of the canopy, the MS Series canopy will provide optimal performance over the entire lifespan of the canopy, while maintaining easy packability.

The MS-M1/M3 are freefall-only models, while the (MS) M2/M4 are compatible with freefall and double bag static line operations. The freefall-only (MS) M3 is the improved glide version of the (MS) M1. The freefall and static line capable MS-M4 is the improved glide version of the (MS) M2. Glide performance has been substantially improved, by more than 33%, resulting in a lift-over-drag ratio (glide ratio) between 3.5:1 and 4:1, depending on configuration and load.

The (MS) M3/M4 retains the characteristics associated with the (MS) M1/M2; consistent openings, exceptional stability, easy maneuverability and exceptional landings. Toggle pressure is noticeably lighter, thus resulting in less fatigue during HAHO operations.

Our developmental program demonstrated that a few subtle design revisions to the existing MS, primarily changes in airfoil shape and line trim, improved the lift-to-drag ratio. The MS-M3/M4 is built using hybrid construction, common to all Military Silhouettes. By retaining polyester suspension lines, unwanted line trim variations due to "line trim creep" was eliminated, which can potentially affect glide performance. In addition, polyester line also provide suitable elasticity, which helps to reduce the transmission of excessive shock loads to the jumper and canopy that are often associated with the more unyielding low-drag line types.

Training evolutions or real-world operations, day or night, the Military Silhouette (MS) Series main parachutes offer improved glide, versatility, reliability and the ruggedness you have come to expect from Complete Parachute Solutions.



## Complete Parachute Solutions, Inc.

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# PRODUCT SPECIFICATIONS

## MS-SERIES M3/M4

### 9-Cell Main Parachutes

Model / Size	MS-360 M3 MS-360 M4	MS-330 M3 MS-330 M4	MS-300 M3 MS-300 M4	MS-280 M3 MS-280 M4	MS-260 M3 MS-260 M4
Aspect Ratio	2.52:1	2.52:1	2.52:1	2.52:1	2.52:1
Canopy Area	360 sq ft (33.4 sq m)	330 sq ft (30.7 sq m)	300 sq ft (27.9 sq m)	280 sq ft (26.0 sq m)	260 sq ft (24.2 sq m)
Canopy Span	30.1 ft (9.17 m)	28.8 ft (8.77 m)	27.5 ft (8.38 m)	26.5 ft (8.07 m)	25.6 ft (7.80 m)
Canopy Chord (Center / Tip)	12.3 ft / 10.8 ft (3.74 m / 3.29 m)	11.8 ft / 10.3 ft (3.59 m / 3.13 m)	11.2 ft / 9.9 ft (3.41 m / 3.01 m)	10.9 ft / 9.5 ft (3.32 m / 2.89 m)	10.5 ft / 9.2 ft (3.20 m / 2.80 m)
Maximum Weight	450 lb (204 kg)	415 lb (188 kg)	375 lb (170 kg)	350 lb (159 kg)	325 lb (148 kg)
Maximum Deployment Altitude (MSL)	35,000 ft (10668 m)	35,000 ft (10668 m)	35,000 ft (10668 m)	35,000 ft (10668 m)	35,000 ft (10668 m)
Minimum Deployment Altitude (AGL)	3,000 ft (914 m)	2,500 ft (762 m)	2,000 ft (610 m)	2,000 ft (610 m)	2,000 ft (610 m)
Rate of Descent Full Flight	9.5 ft/s - 12.0 ft/s (2.89 m/s - 3.65 m/s)				
Rate of Descent 50% Brakes	7.5 ft/s @ 200 lbs (2.28 m/s @ 90.72 kg)				
Forward Speed	24.9 mph - 32.6 mph (40.1 kph - 52.6 kph)				
Forward Component	23.8 mph - 31.6 mph (38.4 kph - 51 kph)				
L:D	Approximately 3.5:1 up to 4:1, depending on configuration and load				
Stall	Resistant to stall				
Turn Rate - 180° Turn	Approximately 2 seconds				
Turn Rate - 360° Turn	Approximately 3-5 seconds				
Deployment Method	M3 = Freefall only    M4 = Freefall or Double Bag Static Line				
Canopy Construction	Chord-wise construction, full cell I-beam with span-wise and chord-wise reinforcement				
Canopy Material Type	Top Surface: Zero Porosity Bottom Surface and Ribs: 0.5-3 cfm Ripstop Fabric				
Line Type and Strength	Treated Polyester 600, 900 and 1575 lb				

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