

OPERATIONAL RESERVE

OR-Series Reserve Canopies

The Operational Reserve (OR) is an advanced 9-cell elliptical ram-air design that fully compliments the Military Silhouette (MS) main parachutes in size, glide performance and landing capability. The OR's operational weight limits are also higher than a comparable 7-cell reserve in the same size range.

The OR reserves were designed to meet the high demand for tactical 9-cell reserve canopies that support various airborne operations for solo jumpers outfitted with full combat equipment.

Following years of development and refinement, the Operational Reserve in its various sizes has passed the strength tests and cutaway standards according to TSO-C23d requirements.

OR-Series Operational Reserve

- Is rated to an all up weight (AUW) of 325-450 lb (148 - 204 kg)
- Is HAHO & HALO capable of 35,000 ft (10,500 m) MSL
- Has similar flight characteristics to MS 9-cell mains
- Provides a powerful flare at landing

The OR-Reserves passed a series of proprietary evaluation tests for opening characteristics, flight stability, overall handling and landing performance. The result is a reserve canopy that exhibits performance parallel to the MS-Series main parachutes. Your mission will not be compromised in the event of a main parachute malfunction.



PRODUCT SPECIFICATIONS

OR-SERIES RESERVE

9-Cell Reserve Parachutes

Model / Size	OR-360	OR-330	OR-300	OR-280	OR-260
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 Deployment 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 (10,500 m)	35,000 ft (10,500 m)	35,000 ft (10,500 m)	35,000 ft (10,500 m)	35,000 ft (10,500 m)
Minimum Deployment Altitude (AGL)	2000 ft (610 m)	2000 ft (610 m)	1500 ft (457 m)	1500 ft (457 m)	1500 ft (457 m)
Maximum Deployment Speed	150 KTS EAS @ Sea Level				
Deployment Method	SPP or UPT approved high speed reserve bag				
Canopy Material Type	0-3 cfm Ripstop Fabric				
Canopy Construction	Chord-wise construction, full cell I-beam, with span-wise and chord-wise reinforcement				
Line Type and Strength	Untreated Polyester 600, 900 and 1200 lb				
L:D	Approximately 3.0:1				
Stall	Resistant to stall				
Turn Rate - 180° Turn	Approximately 2 seconds				
Turn Rate - 360° Turn	Approximately 3-5 seconds				

Testing Summary

Test Altitude Range	From 800 ft AGL to 25,000 ft MSL (243.8 m AGL to 7620 m MSL)
Test Airspeed Range, live jumps	From 60 KIAS at 3000 ft (914 m) to 130 KIAS at 25,000 ft (7620 m)
Maximum Weight Tested	675 lbs (306 kg) at 180 KIAS
Maximum Live Weight Tested at Altitude	490 lbs (222 kg) at 120 KIAS at 25,000 ft (7620 m)
Minimum Live Weight Tested at Altitude	250 lbs (113 kg) at 120 KIAS at 25,000 ft (7620 m)
Altitude Loss After a Breakaway	500 ft to 700 ft (152 m to 213 m)

Opening forces recorded during strength testing: On test drops with 675 lbs (306 kg) at 180 KIAS, the average force recorded was 2792 lb (1266.5 kg), measured with Brunell cells - this equates to 4.13 G average on these tests

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