

HEAVY RESERVE

HR-Series Reserve Canopies

The Heavy Reserve (HR) is an advanced medium-high aspect ratio, moderately tapered, nine-cell tactical reserve canopy constructed entirely of 1.1 oz 0-3 cfm ripstop nylon. The HR-400 canopy was designed to meet the high weights of tandem personnel carrying full combat equipment as well as Tandem Tethered Bundle (TTB) operations.

The HR-Series is generally used in conjunction with TP-Series main canopies. Available in the R1 or R2 configurations, the HR-400 reserve canopy is designed to replace the existing VR-421 reserve which has been in use by military groups worldwide since 1991.

The HR-360 reserve canopy is an ideal size to compliment the TP-360, MP-360 or MS-360 size main canopies. The HR-360 was designed for light tandem operations as well as heavy solo applications.

HR-Series Options

R1: Standard reserve deployment from a freebag

Deployment altitude: 2,000 ft - 25,000 ft MSL
610 m AGL - 7,620 MSL

R2: Deployed from a freebag with a reefing drogue-controlled slider *(Only available on HR-360 at this time)*

Deployment altitude: 3,000 ft AGL-35,000 ft MSL
914 m AGL-10,668 m MSL

The HR-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 TP-Series main parachutes. Your mission will not be compromised in the event of a main parachute malfunction.



PRODUCT SPECIFICATIONS

HR-SERIES RESERVE

9-Cell Reserve Parachutes

Model / Size	HR-400	HR-360
Aspect Ratio	2.71:1	2.71:1
Canopy Area	400 sq ft (37.1 sq m)	360 sq ft (33.4 sq m)
Canopy Span	32.9 ft (10.0 m)	31.2 ft (9.5 m)
Canopy Chord (Center / Tip)	12.9 ft / 9.9 ft (3.9 m / 3.0 m)	12.2 ft / 9.4 ft (3.7 m / 2.8 m)
Maximum Deployment Weight	650 lb (295 kg)	550 lb (250 kg)
Maximum Deployment Altitude (MSL)	25,000 ft (7,620 m)	25,000 ft (7,620 m)
Minimum Deployment Altitude (AGL)	2000 ft (610 m)	2000 ft (610 m)
Forward Speed	20 - 35 mph 32 - 56 km/h	20 - 35 mph 32 - 56 km/h
Rate of Descent Full Flight	14 - 18 ft/s (4.2 - 5.4 m/s)	14 - 18 ft/s (4.2 - 5.4 m/s)
Rate of Descent 50% Brakes	8 - 14 ft/s (2.4 - 4.2 m/s)	8 - 14 ft/s (2.4 - 4.2 m/s)
Maximum Deployment Speed	180 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 2.8:1	
Stall	Resistant to stall	
Turn Rate - 180° Turn	N/A	
Turn Rate - 360° Turn	N/A	

HR-Series Options

- R1 Standard Deployment from a freebag
Deployment Altitude: 2000 ft AGL to 25,000 ft MSL (610 m AGL to 7620 m MSL)
- R2 Standard Deployment from a freebag with a reefing drogue-controlled slider
Deployment Altitude: 3000 ft AGL to 35,000 ft MSL (914 m AGL to 10,668 m MSL)
(Only available on HR-360 at this time)

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