

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 0.5-3 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.

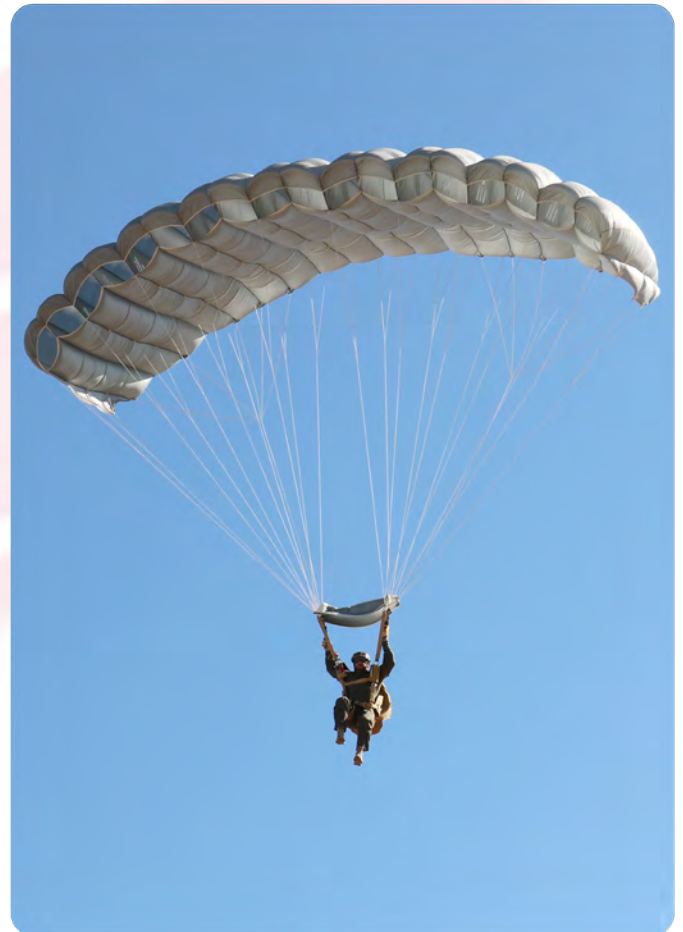
HR-SERIES OPTIONS

R1: Standard reserve deployment from a freebag
Deployment altitude: 2,000 ft - 25,000 ft MSL
610 m AGL - 7,620 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)

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



PRODUCT SPECIFICATIONS

HR - SERIES RESERVE

9 - Cell Reserve Parachute

MODEL / SIZE	HR-400	HR-360
ASPECT RATIO	2.71:1	2.71:1
CANOPY AREA	400 sq ft (37.2 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 (3.9m / 3.0 m)	12.2 ft / 9.4 ft (3.7 m / 2.8 m)
MAXIMUM DEPLOYMENT WEIGHT	850 lb (386 kg)	550 lb (250 kg)
MAXIMUM DEPLOYMENT ALTITUDE (MSL)	Capable - 35,000 ft (10,668 m) (Demonstrated - 25,000 ft (7,620 m))	
MINIMUM DEPLOYMENT ALTITUDE (AGL)	1,900 ft (579 m)	
FORWARD SPEED FULL FLIGHT	30 - 40 mph (48 - 64 km/h)	
RATE OF DESCENT FULL FLIGHT	14 - 18 ft/s (4.3 - 5.5 m/s)	
RATE OF DESCENT BRAKES STOWED	8 - 14 ft/s (2.4 - 4.3 m/s)	
MAXIMUM DEPLOYMENT SPEED	180 KTS EAS @ Sea Level	
DEPLOYMENT METHOD	High Speed Reserve Bag (Freebag)	
CANOPY MATERIAL TYPE	0.5 - 3 CFM Ripstop Nylon 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 1500 lb	
GLIDE RATIO	Approximately 3.2:1	
STALL	Resistant to stall with gentle stall characteristics	
TURN RATE - 180° TURN	N/A	
TURN RATE - 360° TURN	N/A	

HR-SERIES OPTIONS

R1 Standard deployment from a freebag with or without Dual Speed Pilot Chute
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)