

# T-11

## ADVANCED TACTICAL PARACHUTE SYSTEM

The T-11 will be fielded to U.S. Army airborne units over a 7 year period. More than 52,000 T - 10 parachutes systems will be replaced by the most advanced parachute system in the world.

Slower rates of descent and decreased oscillation under canopy will result in fewer jumper injuries and greater equipment carrying capacity for the modern warfighter.



The T-11 is intended to be used in mass parachute assaults from altitudes as low as 500 feet (+/- 125 feet) Above Ground Level (AGL) at speeds up to 150 Knots Indicated Airspeed (KIAS). The T-11 maximum deployment altitude is 7500 ft (2286 m) Above Sea Level (AMSL), ensuring the combat force retains all insertion options even at extreme elevations.

The T-11 consists of three components: the main canopy, the T-11R reserve canopy and the T-11 harness. Both the T-11R and the harness have been placed into service with the MC-6 steerable parachute system.

### T-11 Main Canopy



The T-11 main canopy is a highly modified and refined version of the cross/cruciform planform parachute and it exploits two of the most important characteristics of cross parachutes: inherent stability and inherent gentle opening. Unlike the T-10, the T-11 also incorporates a slider which controls the opening speed of the canopy and eliminates the possibility of a canopy inversion or line over malfunction.

At 375 ft. (115m.) below the aircraft deployment altitude, the T-11 rate of descent is 18 ft/sec (4.48 m/sec) for a jumper with an All Up Weight (AUW) of 400 lbs. (181.4 kg). When compared with the T-10, the slower rate of descent results in a 40% reduction in impact energy upon landing.

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## T-11 Harness

The T-11 harness is extremely adjustable, capable of being sized to the 5<sup>th</sup> percentile female to the 97<sup>th</sup> percentile male. The reserve attachment points are at the same location as the main riser attachment points. The common attachment points allow the force of the reserve deployment to be transmitted through the long axis of the jumper's body. In addition, the jumper is able to maintain a vertical orientation under a reserve canopy which enables a proper prepare to land attitude.

## T-11R Reserve Parachute

The T-11R, provides a significant decrease in the rate of descent when compared with the T-10R. For an AUW of 400 lbs (181.4 kg), the T-11R rate of descent is less than 27 ft/sec (8.22 m/sec). The T-11R opens rapidly with minimum post inflation collapse. Furthermore, minimum altitude loss on opening is achieved by permitted maximum opening loads at the maximum permitted speed. The T-11R incorporates a center mount reserve handle which can be operated by either hand and pulled in any direction to activate the opening sequence. Frangible skirt assist lines allow minimum opening height loss for both high speed and low speed malfunctions.

Due to the technical innovations incorporated into the T-11R, the jumper makes no decisions after the initiation of the reserve and takes no actions other than pulling the deployment handle. The T-11R opening sequence automatically adapts itself to both high speed and low speed malfunctions.



T-11R RESERVE PARACHUTE PHYSICAL CHARACTERISTICS	
Item	T-11R
Hem Diameter :	20.3 ft
Suspension Line :	20.3 ft
Fabric Area :	180 ft <sup>2</sup>
Apex Vent Area :	3.5 ft <sup>2</sup>
Number of Gores :	20
Number of Suspension Lines :	20

*This data sheet is for information only and shall not form part of a contract*