

Voodoo Aerial target system



Key features

- ▶ **300 knots airspeed**
 Maximum straight and level airspeed in excess of 300 knots.
 Flight operations at altitudes from five metres to 9,000 metres
- ▶ **Operating ranges in excess of 120 km**
 Mature command and control system with differential GPS for air vehicle navigation.
- ▶ **Range of mission payloads**
 Including radar, visual and IR augmentation.
 Supports a range of towed sleeve, banner and rigid body targets



Description

Produced by Meggitt Defence Systems, a company dedicated to the design, manufacture and operation of aerial target and unmanned air vehicle systems, Voodoo is a new, affordable, high performance target system that meets the requirements of the world's air defence weapon systems.

Voodoo is an all new, piston-engined air vehicle, developed using advanced composite materials and manufacturing techniques well proven in the aerospace and motor sport industries.

Capable of a sustained, straight and level airspeed of over 300 knots, Voodoo is catapult launched and recovered via a parachute and reusable airbag. It is fitted with MTS' own mature, command and control system with digital autopilot, telemetry, differential GPS and waypoint navigation system for accurate and reliable flight profiles to ranges of over 100 km. Up to four vehicles may be operated simultaneously from one ground control station which also enables an entire mission, including launch and recovery, to be performed automatically. Flight to altitudes of over 9,000 metres may be achieved with Voodoo, whilst the addition of a radar altimeter allows the target to achieve reliable controlled flight to altitudes as low as five metres.

Alternative features are available to vary the system's performance, to suit customer requirements and to provide specific enhancement for a range of weapon system sensors. These include passive and active radar enhancement, radar chaff and infrared decoy dispensing pods, pyrotechnic visual and infrared enhancements plus a variety of black-body infrared augmentation devices.

Voodoo

Aerial target system

SPECIFICATION

Wing span	3,90 metres (12 ft 9 in)
Length	3,65 metres (12 ft 0 in)
Height	1,10 metres (3 ft 4 in)
Wing area	3,48 m ² (37,46 ft ²)
Dry weight	155,0 kg (340 lbs)
Max take-off weight	230,0 kg (506.0 lbs)
Fuel capacity	57.0 litres (12.53 Imp Galls)
Endurance	Up to 150 minutes
Powerplant	One MTS 3-cylinder, 955cc, liquid-cooled engine of 145 bhp (108,12 kw) Engine features include: Integral electric starter; electrical alternator; integral reduction gearbox; altitude compensating fuel injection system
Speed range	50 - 156 m/s (97 - 303 knots) (180 - 561 km/hr)
Launch speed	50 m/s (111 mph)
Range	>100 km (74 miles)
Operational envelope	
Maximum altitude	>9000 metres (30,000 ft)
Minimum altitude	5 metres (16 ft)
Recovery	Parachute or skid landing
Stabilisation	Meggitt digital autopilot with track and height lock
Tracking and telemetry	Integrated differential GPS module with automatic flight and digital telemetry systems
Typical payloads	Adjustable radar cross section (through passive and active devices) Pyrotechnic and black-body IR augmentation Integral, smoke plume visual augmentation IR and chaff decoy dispensing pods Radar altimeter, sea-skimming module Electronic, acoustic and doppler radar, scalar miss distance scoring Electronic threat simulation <i>(These payloads may be mixed and most carried simultaneously)</i>

This data may be changed without notice and is not binding.