



Banshee Jet 80

Aerial Targets

Developed from the successful Banshee target, this twin-jet engine powered version was developed using knowledge and experience gained whilst operating the single jet engine variant which entered service in 2010.

The current version is fitted with twin 40kg thrust gas turbine engines giving a total of 80kg of static thrust. This offers an increase in the maximum straight and level airspeed of up to 180metres/second. The use of an auxiliary fuel tank ensures that endurance is similar to that of the single engine version with a typical mixed throttle mission time in excess of 45 minutes.

When fitted with the patented Hot Nose the target provides a forward and side-looking IR source with output in Bands I, II and III, whilst the jet engines provide a realistic rearward looking IR signature.

All other well proven augmentation devices traditionally available to Banshee can be fitted to this latest twin jet engine derivative.

The Banshee range of Aerial Targets are typically used by customers to represent threats posed by UAV's, enemy aircraft and general aerial threat weapons. Variants of Banshee have been used by customers to test the effectiveness and operational readiness of weapon systems including:

- Air-to-Air Missiles: Meteor, AMRAAM, Aim-7 Sparrow, Aim-9 Sidewinder, IRIS-T, MICA, Aspide, and R550 Magic Missile
- Ground/MANPAD/Surface-to-Air Missiles: Stinger, AKASH, Sea Wolf, Mistral, Sadral, Rapier/Jernas, HVM, Simbad, Crotale, Blowpipe, Javelin, Starburst, Starstreak, Sea Sparrow, ESSM, SPYDER, NASAMS, SM1, SM2 Hawk, and Patriot
- Guns/Cannon Systems: Phalanx, Sea Zenith, Seaguard, AHEAD, Goalkeeper, plus a range of large/medium cal naval guns and cannon systems (20mm-155mm)

Key Features

Suitable for use on land and at sea

Suitable for use against surface-to-air and air-to-air weapon systems

Target performance and enhancement easily varied by plug-in modules

Target airframe and enhancements proven worldwide over many thousands of in-service operations

Banshee Jet 80 Specifications

Physical	
Wingspan	2.49m (8ft 2in)
Length	2.85-2.95m (9ft 5in-9ft 8in) (typical, dependant on configuration)
Height	0.78m (2ft 6in)
Wing Area	2.42m ² (26ft ²)
Power	Two 40kg static thrust gas turbine engines
Performance	
Speed Range	50-180m/s (97-350 knots) (180-648km/hr) (ISA Standard, clean configuration, half fuel)
Launch Speed	45m/s (87 knots) (162km/hr) (typical, dependent on all-up-weight)
Operating Range	>100km (54nm)
Endurance	>45 minutes at typical mission, mixed throttle settings
Maximum Altitude	8,000 metres (26,247ft)
Minimum Altitude	5 metres (16ft) ASL
Recovery	Parachute
Other features	
Stabilisation	QinetiQ's CASPA Avionics with digital autopilot and 3 axis IMU
Tracking and Telemetry	Integrated GPS, autonomous waypoint navigation and digital telemetry systems
Typical Payloads	Up to 8 smoke tracking flares Up to 16 infra-red tracking flares (Combinations of flares may be carried and activated as required) Hot nose, black-body IR source IR and chaff decoy dispensing pods IFF transponder capable of modes A and C Luneberg Lenses Frequency specific, active radar augmenters Radar altimeter, sea-skimming module Acoustic and Doppler radar MDI ARHE (Active Radar Homing Emulator) (these payloads may be mixed and some carried simultaneously)



The Banshee target can simulate an enemy aircraft or cruise missile

Note: Due to continuous process improvements, specifications are subject to change without notice.

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