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Banshee Jet 80+

Aerial Targets

Following the successful introduction of the Banshee Jet 80 in 2014, the Banshee Jet 80+ offers customers the opportunity to reach speeds of 200 metres/second with endurances exceeding 40 minutes at a market-leading price.

The current version is fitted with twin 45kg thrust gas turbine engines giving a total of 90kg of static thrust. This offers an increase in the maximum straight and level airspeed of up to 200metres/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

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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 45kg static thrust gas turbine engines

Performance	
Speed Range	50-200m/s (97-389 knots) (180-720km/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	9,144 metres (30000ft)
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.

Collaborating with QinetiQ

At QinetiQ we bring organisations and people together to provide innovative solutions to real world problems, creating customer advantage.

Working with our partners and customers, we collaborate widely, working in partnership, listening hard and thinking through what customers need. Building trusted partnerships, we are helping customers anticipate and shape future requirements, adding value and future advantage.

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QinetiQ/19/00479

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