



Banshee Next Generation (NG)

Aerial Targets

The highly effective Banshee family of aerial targets continues to grow. Following on from the successful Banshee Jet 80 and Jet 80+ launched in 2014 and 2018 respectively, the Banshee NG is a new generation of aerial target, providing unparalleled performance at a market-defining price.

Building on the success of the Banshee family, the Banshee NG is based on a new and novel design and is powered by twin gas turbine engines providing a straight and level air speed in excess of 250m/s. The fuel load is 100 litres, giving an endurance of over one hour, dependant on mission parameters. The airframe design allows for increased agility, providing high sustained manoeuvring capability to simulate a wider range of threats.

Designed on Banshee heritage, the Banshee NG offers customers the benefit of system familiarity, allowing them to operate this new target from their existing ground station and Hercules pneumatic launcher or other launchers with equivalent performance.

It offers the same flexibility as other Banshee targets, with simple maintenance, ease of operation, and high reliability. This flexibility extends to the wide range of payloads the Banshee NG can carry, including those from the Banshee Whirlwind and Banshee Jet targets, in multiple payload locations.

Banshee aerial targets are typically used by customers to represent threats that include UAVs, fighter aircraft and subsonic cruise missiles, with most used to test the effectiveness and operational readiness of weapons systems, including, but not limited to:

- 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, IGLA 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)

Future developments of this Banshee NG will allow for increased speed, payload, and manoeuvring capability up to Transonic performance.



Banshee NG Specifications

Physical	
Wingspan	1.989m (6.52ft)
Length	3.33m (10.95ft) (typical, dependant on configuration)
Height	0.52m (1.7ft)
Wing Area	1.77m ² (19ft ²)
Power	Twin gas turbine engines

Performance	
Speed	In excess of 250m/s (485 Knots) (900km/hr) (ISA Standard, clean configuration, half fuel)
Launch Speed	50m/s (97 knots) (180km/hr) (typical, dependent on all-up-weight)
Operating Range	>100km (54nm)
Endurance	One hour, dependant on mission parameters
Maximum Altitude	12,000 metres (39,360ft)
Minimum Altitude	3 metres (10ft) with RADALT payload
Recovery	Parachute
Maximum Target Weight	205kg
Maximum Payload Weight	25kg

Other features	
Stabilisation	New generation of QinetiQ's CASPA Avionics with autopilot and 3 axis IMU
Tracking and Telemetry	Integrated GPS, autonomous waypoint navigation and telemetry systems
Typical Payloads	Active radar homing emulator Radar jammer Up to 16 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 (these payloads may be mixed and some carried simultaneously)

Key Features

- Exceptional performance to price ratio
- High manoeuvrability, Low RCS
- Target performance and enhancement easily varied by wide variety of threat representative payloads
- Employs a proven independent flight termination system



Innovative design for increased performance

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

Collaborating with QinetiQ

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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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