



Banshee Jet 40

Aerial Targets

Developed from the successful Banshee Whirlwind target, this jet engine version entered service to fulfil two emerging requirements. The first is for an affordable and reliable target that is faster than the propeller driven Banshee. The second is the provision of a realistic, complete 360° IR signature.

Banshee Jet 40 fulfils both of these requirements as it has a top speed in excess of 135metres/second at standard ISA conditions and in clean configuration and when fitted with the patented Hot Nose provides a forward looking 180 degree IR source with output in bands I, II and III. A realistic IR signature to the rear of the target is provided by the rear-mounted jet engine, which produces 40kg of static thrust.

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

The Banshee range of aerial targets are typically used by customers to represent threats posed by UAVs, 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: IRIS-T, Stinger, AKASH, Sea Wolf, Mistral, Sadral, Rapier/Jernas, HVM, Simbad, Crotale, Blowpipe, Javelin, Starburst, Starstreak, NASAMS, ESSM, 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

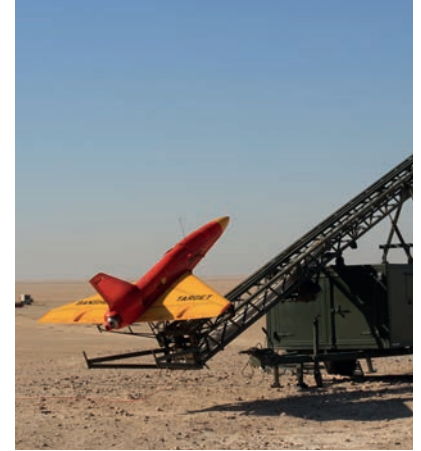
Suitable for use against surface-to-air and air-to-air weapon systems

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 40 Specifications

Physical	
Wingspan	2.49m (8ft 2in)
Length	2.86-2.95m (9ft 5in-9ft 8in) (typical, dependent on configuration)
Height	0.78m (2ft 6in)
Wing Area	2.42m ² (26ft ²)
Power	40kg static thrust gas turbine engine
Performance	
Speed Range	50-135m/s (97-262 knots) (180-486km/hr) at standard ISA conditions
Launch Speed	32m/s (62 knots) (115km/hr)
Operating Range	Greater than 100km (60miles)
Endurance	Greater than 65 minutes at economical cruise
Maximum Altitude	8,000 metres (26,247ft)
Minimum Altitude	5 metres (16ft)
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 eight smoke tracking flares (configuration dependent) Up to 16 infrared tracking flares (combinations of flares may be carried and activated as required) Hot nose, black-body IR source IR and radar 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)



Banshee Jet 40 Image

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.

www.QinetiQ.com

Copyright QinetiQ Ltd 2021 | BANSHEE JET 40

QinetiQ/18/03114

For further information please contact:

QinetiQ Target Systems
The Boulevard, Orbital Park,
Ashford, Kent TN24 0GA
+44 (0)1233 505600
QTSmktg@qinetiq.com
www.QinetiQ.com/targetsystems