



Barracuda™ USV-T

Naval Target

Based on a modified navy standard, the Barracuda unmanned surface vehicle – target (USV-T) is a fibreglass hull, rigid inflatable boat (RHIB), powered by a 225 hp marine diesel engine. It operates at speeds up to 36+ knots, a significant performance increase over any other target system in this category.

The Barracuda USV-T allows for remote control from distances greater than 10 nautical miles or can be configured for Over-the-Horizon (OTH) control. A digital radio command link controls the target's course and speed, while telemetry and video signals from the target provide the operator with system performance and position information. A self-contained tracking capability is achieved using position data from the on-board GPS.

This Maritime Surface Target, provided by QTS, is typically used by customers to represent threats posed by Fast Attack Craft (FAC), Fast Inshore Attack Craft (FIAC) and Close Quarter threats to commercial shipping and Naval vessels and has been used to test the effectiveness and operational readiness of weapon systems including:

- Surface-to-Surface Missiles: Harpoon, Exocet, RBS 15, Mistral /SM/Sea Sparrow type systems (various Shore/ Submarine Launched Missiles)
- Surface-to-Air Missiles (in Surface-to-Surface mode): NATO Sea Sparrow, Evolved Sea Sparrow, Standard SM 1, Standard SM 2 Block III A
- Air-to-Surface Missiles: RBS 15, AGM 65 Maverick, CRV 7, Harpoon, Kormoran, LIDAM
- Naval Guns/Cannon & Close In Weapon Systems: Phalanx, 25-30 Bushmaster, 40mm Bofors, 57mm Bofors Mk III, 76mm Oto Melara SRGM, 100mm Creusot Loire, 4.5" Royal Ordnance, and 127mm Oto Melara/FMV Guns
- The Barracuda replicates high-speed naval tactics and a variety of operational guidance plans including straight-on high-speed attack, crossing patterns, zigzag, and other evasive manoeuvres. It can be equipped with visual, radar and laser signature enhancements to present a convincing likeness to a variety of naval threats to exercise naval guns, radar and visual IR sensors for naval combat systems.

Barracuda™ USV-T Specifications

Physical

Boat length	7.24m (23.75ft)
Boat beam	2.75m (9ft)
Boat draft (outdrive down)	0.84m (2.75ft)
Boat draft (outdrive up)	0.43m (1.5ft)
Boat platform weight	2,074 kg (4,572 lbs)
Engine	D4, Volvo supercharged, after cooled, inline 4-cylinder, marine diesel

Performance

Temperature	Operating: -30° to +50°C (-22° to +122°F) Storage: -40°C to +60°C (-40) to +140°F)
Maximum speed	36+ knots in SST
Speed/endurance	36 knots, 4 hrs, 180 nm 20 knots, 10 hrs, 300 nm
Payload/speed	500 lbs/35 knots
Bollard pull	3000 lbs/17 knots (with optimised prop) 2100 lbs (9500N), static with A-7 prop
Control TM range	Over-the-horizon (unlimited distance) tested to 6000 km
Video TM range	>10 nm (subject to control station antenna height)
Control system	Universal Target Control Station (UTCS) – STANAG 4856 compliant

Engine Performance

Fuel Capacity	208 litres (46 imperial gallons). Auxiliary fuel tank is available.
Outdrive	Volvo Penta DPH Duoprop

Optional payloads

Passive radar augmentation (20 – 500m ² , I-band)
Active radar augmentation
Visual augmentation: smoke, flag, flares, strobes
Scanning Projectile Impact Evaluation System (SPIES)
Capable of carrying auto-winch

Key features

Proven speed of 36+ knots in Sea State 2
Line-of-sight and Over-the-horizon control
Replicates high-speed naval tactics and a variety of operational guidance plans
Can tow low-cost 'Kill' targets
Tactical applications

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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